



**Department of
Design and
Construction**

**CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE
VOLUME 1 – BID BOOKLET (FHWA FUNDED)**

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Introduction

This Bid Booklet is intended to provide general information necessary for bidding on a DDC public works project and is part of the Contract Documents, as per Article 1.1 of the Standard Construction Contract.

As this contract is solicited via the PASSPort system, the bidder will be required to complete all of the PASSPort forms and questionnaires. These forms and questionnaires, along with the bidder's responses, will become part of the Bid Booklet.

Additional information on the PASSPort system can be found at the following website:

<https://www1.nyc.gov/site/mocs/systems/passport-user-materials.page>

Bid Submission Requirements

THE FOLLOWING MUST BE COMPLETED AND SUBMITTED FOR THE BID TO BE CONSIDERED RESPONSIVE:

1. Completed electronic bid submission in PASSPort;
 - a. All required fields in PASSPort must be completed.
2. One-page signed Bid Submission Form delivered in person to DDC before the bid due date; and
3. Bid security, if required.
 - a. If Bid security is in a form of a bid bond, bidders must include it with their electronic PASSPort submission.
 - b. If Bid security is in a form of a certified check, bidders must deliver the certified check with the signed Bid Submission Form.

BIDDERS ARE ADVISED THAT PAPER BID SUBMISSIONS WILL BE DEEMED NON-RESPONSIVE. BIDDERS MUST SUBMIT THEIR BIDS ELECTRONICALLY IN PASSPORT, PROVIDE THE BID SECURITY, AND DELIVER TO DDC THE ONE-PAGE SIGNED BID SUBMISSION FOR THE BID TO BE CONSIDERED RESPONSIVE.

THE FOLLOWING MAY RESULT IN THE BID BEING FOUND NON-RESPONSIVE:

1. Any discrepancy between the total bid price listed on the Bid Submission Form and the bid information submitted in PASSPort.
2. Failure to upload required files or documents as part of a mandatory PASSPort Questionnaire response.
 - a. For clarity, this includes uploading the DBE Schedule of Utilization on a form other than the Excel file provided in the PASSPort Questionnaire.

Notices to Bidders

Pre Bid Questions (PBQs)

Please be advised that PBQs should be submitted to the Agency Contact Person (CSB_projectinquiries@ddc.nyc.gov) at least five (5) business days (by 5:00 PM EST) prior to the bid opening date as indicated in the PASSPort procurement.

All PBQs must reference the Project ID. If a bidder has multiple PBQs for the same Project ID, the PBQs must be numbered sequentially, even if they are submitted separately.

While the PASSPort system has a facility for submitting inquiries, bidders are directed to send PBQs as directed above instead of using the PASSPort inquiry system.

Inquiries sent using the PASSPort inquiry system will not be considered PBQs.

NYC Contract Financing Loan Fund

If your business is working as a prime or subcontractor on a project with a City agency or City-funded entity, you may be eligible for a Contract Financing Loan from a participating lender coordinated with the NYC Department of Small Business Services (SBS). Loan repayment terms align with the contract payment schedule.

For more information: Call 311 or visit <https://www1.nyc.gov/nycbusiness/article/contract-financing-loan-fund>

M/WBE Notice to Prospective Contractors

PARTICIPATION BY MINORITY-OWNED AND WOMEN-OWNED BUSINESS ENTERPRISES IN CITY PROCUREMENT (9/2020 version)

ARTICLE I. M/WBE PROGRAM

Section 6-129 of the Administrative Code of the City of New York ("Section 6-129") establishes the program for participation in City procurement ("M/WBE Program") by minority-owned business enterprises ("MBEs") and women-owned business enterprises ("WBEs"), certified in accordance with Section 1304 of the New York City Charter. As stated in Section 6-129, the intent of the program is to address the impact of discrimination on the City's procurement process, and to promote the public interest in avoiding fraud and favoritism in the procurement process, increasing competition for City business, and lowering contract costs. The contract provisions contained herein are pursuant to Section 6-129, and the rules of the Department of Small Business Services ("DSBS") promulgated thereunder.

If this Contract is subject to the M/WBE Program established by Section 6-129, the specific requirements of MBE and/or WBE participation for this Contract are set forth in Schedule B of the Contract (entitled the "M/WBE Utilization Plan") and are detailed below. Contracts solicited through the Procurement and Sourcing Solutions Portal (PASSPort) will contain Schedule B in the format outlined in the Schedule B – M/WBE Utilization Plan & PASSPort rider. The provisions of this notice will apply to all contracts subject to the M/WBE Program established by Section 6-129 regardless of solicitation source.

The Contractor must comply with all applicable MBE and WBE requirements for this Contract.

All provisions of Section 6-129 are hereby incorporated in the Contract by reference and all terms used herein that are not defined herein shall have the meanings given such terms in Section 6-129.

References to MBEs and WBEs shall also include such businesses certified pursuant to the executive law where credit is required by Section 11 of the New York City Charter or other provision of law.

Article I, Part A, below, sets forth provisions related to the participation goals for construction, standard and professional services contracts.

Article I, Part B, below, sets forth miscellaneous provisions related to the M/WBE Program.

PART A

PARTICIPATION GOALS FOR CONSTRUCTION, STANDARD

AND PROFESSIONAL SERVICES CONTRACTS OR TASK ORDERS

1. The **MBE and/or WBE Participation Goals** established for this Contract or Task Orders issued pursuant to this Contract, ("**Participation Goals**"), as applicable, are set forth on Schedule B, Part 1 to this Contract (see Page 1, Line 1 Total Participation Goals) or will be set forth on Schedule B, Part 1 to Task Orders issued pursuant to this Contract, as applicable.

The **Participation Goals** represent a percentage of the total dollar value of the Contract or Task Order, as applicable, that may be achieved by awarding subcontracts to firms certified with DSBS as MBEs and/or WBEs, and/or by crediting the participation of prime contractors and/or qualified joint ventures as provided in Section 3 below, unless the goals have been waived or modified by Agency in accordance with Section 6-129 and Part A, Sections 10 and 11 below, respectively.

2. If **Participation Goals** have been established for this Contract or Task Orders issued pursuant to this Contract, Contractor agrees or shall agree as a material term of the Contract that Contractor shall be subject to the **Participation Goals**, unless the goals are waived or modified by Agency in accordance with Section 6-129 and Part A, Sections 10 and 11 below, respectively.

3. If **Participation Goals** have been established for this Contract or Task Order issued pursuant to this Contract, a Contractor that is an MBE and/or WBE shall be permitted to count its own participation toward fulfillment of the relevant **Participation Goal**, provided that in accordance with Section 6-129 the value of Contractor's participation shall be determined by subtracting from the total value of the Contract or Task Order, as applicable, any amounts that the Contractor pays to direct subcontractors (as defined in Section 6-129(c)(13)), and provided further that a Contractor that is certified as both an MBE and a WBE may count its own participation either toward the goal for MBEs or the goal for WBEs, but not both.

A Contractor that is a qualified joint venture (as defined in Section 6-129(c)(30)) shall be permitted to count a percentage of its own participation toward fulfillment of the relevant **Participation Goal**. In accordance with Section 6-129, the value of Contractor's participation shall be determined by subtracting from the total value of the Contract or Task Order, as applicable, any amount that Contractor pays to direct subcontractors, and then multiplying the remainder by the percentage to be applied to total profit to determine the amount to which an MBE or WBE is entitled pursuant to the joint venture agreement, provided that where a participant in a joint venture is certified as both an MBE and a WBE, such amount shall be counted either toward the goal for MBEs or the goal for WBEs, but not both.

4. A. If **Participation Goals** have been established for this Contract, a prospective contractor shall be required to submit with its bid or proposal, as applicable, a completed Schedule B, M/WBE Utilization Plan, Part 2 (see Pages 1-2) indicating: (a) whether the contractor is an MBE or WBE, or qualified joint venture; (b) the percentage of work it intends to award to direct subcontractors; (c) in cases where the contractor intends to award direct subcontracts, a description of the type and dollar value of work designated for participation by MBE and/or WBE and the time frame in which such work is scheduled to begin and end; as well as the name, address, and telephone number of the M/WBE subcontractors if required by the solicitation; and (d) the prospective contractor's required certification and affirmations. In the event that this M/WBE Utilization Plan indicates that the bidder or proposer, as applicable, does not intend to meet the **Participation Goals** in the bid or proposal, as applicable, shall be deemed non-responsive, unless Agency has granted the bidder or proposer, as applicable, a pre-award waiver of the **Participation Goals** in accordance with Section 6-129 and Part A, Section 10 below.

B. (i) If this Contract is for a master services agreement or other requirements type contract that will result in the issuance of Task Orders that will be individually registered ("Master Services Agreement") and is subject to M/WBE **Participation Goals**, a prospective contractor shall be required to submit with its bid or proposal, as applicable, a completed Schedule B, M/WBE Participation Requirements for Master Services Agreements That Will Require Individually Registered Task Orders, Part 2 (page 2) indicating the prospective contractor's certification and required affirmations to make all reasonable good faith efforts to meet participation goals established on each individual Task Order issued pursuant to this Contract, or if a partial waiver is obtained or such goals are modified by the Agency, to meet the modified **Participation Goals** by soliciting and obtaining the participation of certified MBE and/or WBE firms. In the event that the Schedule B indicates that the bidder or proposer, as applicable, does not intend to meet the **Participation Goals** that may be established on Task Orders issued pursuant to this Contract, the bid or proposal, as applicable, shall be deemed non-responsive.

(ii) **Participation Goals** on a Master Services Agreement will be established for individual Task Orders issued after the Master Services Agreement is awarded. If **Participation Goals** have been established on a Task Order, a contractor shall be required to submit a Schedule B – M/WBE Utilization Plan For Independently Registered Task Orders That Are Issued Pursuant to Master Services Agreements, Part 2 (see Pages 1-2) indicating: (a) whether the contractor is an MBE or WBE, or qualified joint venture; (b) the percentage of work it intends to award to direct subcontractors; (c) in cases where the contractor intends to award direct subcontracts, a description of the type and dollar value of work designated for participation by MBEs and/or WBEs, and the time frames in which such work is scheduled to begin and end; as well as the name, addresses, and telephone numbers of the M/WBE subcontractors if required by the solicitation; and (d) the prospective contractor's required certification and affirmations. The contractor must engage in good faith efforts to meet the **Participation Goals** as established for the Task Order unless Agency has granted the contractor a pre-award waiver of the **Participation Goals** in accordance with Section 6-129 and Part A, Section 10 below.

C. THE BIDDER/PROPOSER MUST COMPLETE THE SCHEDULE B INCLUDED HEREIN (SCHEDULE B, PART 2). A SCHEDULE B SUBMITTED BY THE BIDDER/PROPOSER WHICH DOES NOT INCLUDE THE VENDOR CERTIFICATION AND REQUIRED AFFIRMATIONS WILL BE DEEMED TO BE NON-RESPONSIVE, UNLESS A FULL WAIVER OF PARTICIPATION GOALS IS GRANTED (SCHEDULE B, PART 3). IN THE EVENT THAT THE CITY DETERMINES THAT THE BIDDER/PROPOSER HAS SUBMITTED A SCHEDULE B WHERE THE VENDOR CERTIFICATION AND REQUIRED AFFIRMATIONS ARE COMPLETE BUT OTHER ASPECTS OF THE SCHEDULE B ARE NOT COMPLETE, OR CONTAIN A COPY OR COMPUTATION ERROR THAT IS INCONSISTENT WITH THE VENDOR CERTIFICATION AND AFFIRMATIONS, THE BIDDER/PROPOSER WILL BE NOTIFIED BY THE CITY AND WILL BE GIVEN FOUR (4) CALENDAR DAYS FROM RECEIPT OF NOTIFICATION TO CORRECT THE SPECIFIED DEFICIENCIES AND RETURN A COMPLETED SCHEDULE B TO THE AGENCY. FAILURE TO DO SO WILL RESULT IN A DETERMINATION THAT THE BID/PROPOSAL IS NON-RESPONSIVE. RECEIPT OF NOTIFICATION IS DEFINED AS THE DATE NOTICE IS E-MAILED OR FAXED (IF THE BIDDER/PROPOSER HAS PROVIDED AN E-MAIL ADDRESS OR FAX NUMBER), OR NO LATER THAN FIVE (5) CALENDAR DAYS FROM THE DATE OF MAILING OR UPON DELIVERY, IF DELIVERED.

5. Where an MBE Utilization Plan has been submitted, the Contractor shall, within 30 days of issuance by Agency of a notice to proceed, submit a list of proposed persons or entities to which it intends to award subcontracts within the subsequent 12 months. In the case of multi-year contracts, such list shall also be submitted every year thereafter. The Agency may also require the Contractor to report periodically about the contracts awarded by its direct subcontractors to indirect subcontractors (as defined in Section 6-129(c)(22)). **PLEASE NOTE** if this Contract is a public works project subject to GML §101(5) (i.e., a contract valued at or below \$3M for projects in New York City) or if the Contract is subject to a project labor agreement in accordance with Labor Law §222, and the bidder is required to identify at the time of bid submission its intended subcontractors for the Wicks trades (plumbing and gas fitting; steam heating, hot water heating, ventilating and air conditioning (HVAC); and electric wiring), the Contractor must identify all those to which it intends to award construction subcontracts for any portion of the Wicks trade work at the time of bid submission, regardless of what point in the life of the contract such subcontracts will occur. In identifying intended subcontractors in the bid submission, bidders may satisfy any Participation Goals established for this Contract by proposing one or more subcontractors that are MBEs and/or WBEs for any portion of the Wicks trade work. In the event that the Contractor's selection of a subcontractor is disapproved, the Contractor shall have a reasonable time to propose alternate subcontractors.

6. MBE and WBE firms must be certified by DSBS in order for the Contractor to credit such firms' participation toward the attainment of the **Participation Goals**. Such certification must occur prior to the firms' commencement of work. A list of city-certified MBE and WBE firms may be obtained from the DSBS

website at www.nyc.gov/buycertified, by emailing DSBS at buyer@sbs.nyc.gov, by calling (212) 513-6451, or by visiting or writing DSBS at One Liberty Plaza, New York, New York, 10006, 11th floor. Eligible firms that have not yet been certified may contact DSBS in order to seek certification by visiting www.nyc.gov/getcertified, emailing MWBE@sbs.nyc.gov, or calling the DSBS certification helpline at (212) 513-6311. A firm that is certified as both an MBE and a WBE may be counted either toward the goal for MBEs or the goal for WBEs, but not both. No credit shall be given for participation by a graduate MBE or graduate WBE, as defined in Section 6-129(c)(20).

7. Where an **M/WBE** Utilization Plan has been submitted, the Contractor shall, with each voucher for payment, and/or periodically as Agency may require, submit statements, certified under penalty of perjury, which shall include, but not be limited to: the total amount the Contractor paid to its direct subcontractors, and, where applicable pursuant to Section 6-129(j), the total amount direct subcontractors paid to indirect subcontractors; the names, addresses and contact numbers of each MBE or WBE hired as a subcontractor by the Contractor, and, where applicable, hired by any of the Contractor's direct subcontractors; and the dates and amounts paid to each MBE or WBE. The Contractor shall also submit, along with its voucher for final payment: the total amount it paid to subcontractors, and, where applicable pursuant to Section 6-129(j), the total amount its direct subcontractors paid directly to their direct subcontractors; and a final list, certified under penalty of perjury, which shall include the name, address and contact information of each subcontractor that is an MBE or WBE, the work performed by, and the dates and amounts paid to each.

8. If payments made to, or work performed by, MBEs or WBEs are less than the amount specified in the Contractor's **M/WBE** Utilization Plan, Agency shall take appropriate action in accordance with Section 6-129 and Article II below, unless the Contractor has obtained a modification of its **M/WBE** Utilization Plan in accordance with Section 6-129 and Part A, Section 1 below.

9. Where an **M/WBE** Utilization Plan has been submitted, and the Contractor requests a change order the value of which equals or is greater than 10 percent of the Contract or Task Order, as applicable, or \$500,000, Agency shall review the scope of work for the Contract or Task Order, as applicable, and the scale and types of work involved in the change order, and determine whether the **Participation Goals** should be modified.

10. Pre-award waiver of the **Participation Goals**.

(a) A bidder or proposer or contractor with respect to a Task Order, may seek a pre-award full or partial waiver of the **Participation Goals** in accordance with Section 6-129, which requests that Agency change one or more **Participation Goals** on the grounds that the **Participation Goals** are unreasonable in light of the availability of certified firms to perform the services required, or by demonstrating that it has legitimate business reasons for proposing a lower level of subcontracting in its **M/WBE** Utilization Plan.

(b) To apply for a full or partial waiver of the **Participation Goals**, a bidder, proposer, or contractor, as applicable, must complete Part 3 of Schedule B and submit such request no later than seven (7) calendar days prior to the date and time the bids, proposals, or Task Orders are due, in writing to the Agency by email at MWBEModification@ddc.nyc.gov. Full or partial waiver requests that are received later than seven (7) calendar days prior to the date and time the bids, proposals, or Task Orders are due may be rejected as untimely. Bidders, proposers, or contractors, as applicable, who have submitted timely requests will receive an Agency response by no later than two (2) calendar days prior to the due date for bids, proposals, or Task Orders; provided, however, that if that date would fall on a weekend or holiday, an Agency response will be provided by close-of-business on the business day before such weekend or holiday date.

(c) If the Agency determines that the **Participation Goals** are unreasonable in light of the availability of certified firms to perform the services required, it shall revise the solicitation and extend the deadline for bids and proposals, or revise the Task Order, as applicable.

(d) Agency may grant a full or partial waiver of the **Participation Goals** to a bidder, proposer or contractor, as applicable, who demonstrates—before submission of the bid, proposal or Task Order, as applicable—that it has legitimate business reasons for proposing the level of

subcontracting in its **M/WBE** Utilization Plan. In making its determination, Agency shall consider factors that shall include, but not be limited to, whether the bidder, proposer or contractor, as applicable, has the capacity and the bona fide intention to perform the Contract without any subcontracting, or to perform the Contract without awarding the amount of subcontracts represented by the **Participation Goals**. In making such determination, Agency may consider whether the **M/WBE** Utilization Plan is consistent with past subcontracting practices of the bidder, proposer or contractor, as applicable, whether the bidder, proposer or contractor, as applicable, has made efforts to form a joint venture with a certified firm, and whether the bidder, proposer, or contractor, as applicable, has made good faith efforts to identify other portions of the Contract that it intends to subcontract.

11. Modification of **M/WBE** Utilization Plan. (a) A Contractor may request a modification of its **M/WBE** Utilization Plan after award of this Contract. **PLEASE NOTE: If this Contract is a public works project subject to GML §101(5) (i.e., a contract valued at or below \$3M for projects in New York City or if the Contract is subject to a project labor agreement in accordance with Labor Law §220 and the bidder is required to identify at the time of bid submission its intended subcontractors for the Vicks trades (plumbing and gas fitting; steam heating, hot water heating, ventilation and air conditioning (HVAC); and electric wiring), the Contractor may request a Modification of its M/WBE Utilization Plan as part of its bid submission.** The Agency may grant a request for Modification of a contractor's **M/WBE** Utilization Plan if it determines that the Contractor has established, with appropriate documentary and other evidence, that it made reasonable, good faith efforts to meet the **Participation Goals**. In making such determination, Agency shall consider evidence of the following efforts, as applicable, along with any other relevant factors:

(i) The Contractor advertised opportunities to participate in the Contract, where appropriate, in general circulation media, trade and professional association publications and small business media, and publications of minority and women's business organizations;

(ii) The Contractor provided notice of specific opportunities to participate in the Contract, in a timely manner, to minority and women's business organizations;

(iii) The Contractor sent written notices, by certified mail or facsimile, in a timely manner, to advise MBEs or WBEs that their interest in the Contract was solicited;

(iv) The Contractor made efforts to identify portions of the work that could be substituted for portions originally designated for participation by MBEs and/or WBEs in the **M/WBE** Utilization Plan, and for which the Contractor claims an inability to retain MBEs or WBEs;

(v) The Contractor held meetings with MBEs and/or WBEs prior to the date their bids or proposals were due, for the purpose of explaining in detail the scope and requirements of the work for which their bids or proposals were solicited;

(vi) The Contractor made efforts to negotiate with MBEs and/or WBEs as relevant to perform specific subcontracts, or act as suppliers or service providers;

(vii) Timely written requests for assistance made by the Contractor to Agency's M/WBE liaison officer and to DSBS;

(viii) Description of how recommendations made by DSBS and Agency were acted upon and an explanation of why action upon such recommendations did not lead to the desired level of participation of MBEs and/or WBEs.

Agency's M/WBE officer shall provide written notice to the Contractor of the determination.

(b) The Agency may modify the **Participation Goals** when the scope of the work has been changed by the Agency in a manner that affects the scale and types of work that the Contractor indicated in its **M/WBE Utilization Plan** would be awarded to subcontractors.

12. If the Contractor was required to identify in its bid or proposal the MBEs and/or WBEs they intended to use in connection with the performance of the Contract or Task Order, substitutions to the identified firms may only be made with the approval of the Agency, which shall only be given when the Contractor has proposed to use a firm that would satisfy the **Participation Goals** to the same extent as the firm previously identified, unless the Agency determines that the Contractor has established, with appropriate documentary and other evidence, that it made reasonable, good faith efforts. In making such determination, the Agency shall require evidence of the efforts listed in Section 6-129(a) above, as applicable, along with any other relevant factors.

13. If this Contract is for an indefinite quantity of construction, standard professional services or is a requirements type contract and the Contractor has submitted an **M/WBE Utilization Plan** and has committed to subcontract work to MBEs and/or WBEs in order to meet the **Participation Goals**, the Contractor will not be deemed in violation of the **M/WBE Program** requirements for this Contract with regard to any work which was intended to be subcontracted to an MBE and/or WBE to the extent that the Agency has determined that such work is not needed.

14. If **Participation Goals** have been established for this Contract or a Task Order issued pursuant to this Contract, at least once annually during the term of the contract or Task Order, as applicable, Agency shall review the Contractor's progress in attainment of its **M/WBE Utilization Plan**, including but not limited to, by reviewing the percentage of work the Contractor has actually awarded to MBE and/or WBE subcontractors and the payments the Contractor made to such subcontractors.

15. If **Participation Goals** have been established for this Contract or a Task Order issued pursuant to this Contract, Agency shall evaluate and assess the Contractor's performance in meeting those goals, and such evaluation and assessment shall become part of the Contractor's overall contract performance evaluation.

PART B

MISCELLANEOUS

1. The Contractor shall take notice that, if this solicitation requires the establishment of a **M/WBE Utilization Plan**, the resulting contract may be audited by DSBS to determine compliance with Section 6-129. See §6-129(e)(10). Furthermore, such resulting contract may also be examined by the City's Comptroller to assess compliance with the **M/WBE Utilization Plan**.

2. Pursuant to DSBS rules, construction contracts that include a requirement for a **M/WBE Utilization Plan** shall not be subject to the law governing Locally Based Enterprises set forth in Section 6-108.1 of the Administrative Code of the City of New York.

3. DSBS is available to assist contractors and potential contractors in determining the availability of MBEs and/or WBEs to participate as subcontractors, and in identifying opportunities that are appropriate for participation by MBEs and/or WBEs in contracts.

4. Prospective contractors are encouraged to enter into qualified joint venture agreements with MBEs and/or WBEs as defined by Section 6-129(c)(30).

5. By submitting a bid or proposal the Contractor hereby acknowledges its understanding of the M/WBE Program requirements set forth herein and the pertinent provisions of Section 6-129, and any rules promulgated thereunder, and if awarded this Contract, the Contractor hereby agrees to comply with the M/WBE Program requirements of this Contract and pertinent provisions of Section 6-129, and any rules promulgated thereunder, all of which shall be deemed to be material terms of this Contract. The Contractor hereby agrees to make all reasonable, good faith efforts to solicit and obtain the participation of MBEs and/or WBEs to meet the required **Participation Goals**.

ARTICLE II. ENFORCEMENT

1. If Agency determines that a bidder or proposer, as applicable, has violated this procurement, violated Section 6-129 or the DSBS rules promulgated pursuant to Section 6-129, Agency may disqualify such bidder or proposer, as applicable, from competing for this Contract and the Agency may revoke such bidder's or proposer's prequalification status, if applicable.

2. Whenever Agency believes that the Contractor or a subcontractor is in noncompliance with Section 6-129 or the DSBS rules promulgated pursuant to Section 6-129, or any provision of this Contract that implements Section 6-129, including, but not limited to, any **M/WBE** Utilization Plan, Agency shall send a written notice to the Contractor describing the alleged noncompliance and offering the Contractor an opportunity to be heard. Agency shall then conduct an investigation to determine whether such Contractor or subcontractor is in compliance.

3. In the event that the Contractor has been found to have violated Section 6-129, the DSBS rules promulgated pursuant to Section 6-129, or any provision of this Contract that implements Section 6-129, including, but not limited to, any **M/WBE** Utilization Plan, Agency may determine that one of the following actions should be taken:

- (a) entering into an agreement with the Contractor allowing the Contractor to cure the violation;
- (b) revoking the Contractor's pre-qualification to bid or make proposals for future contracts;
- (c) making a finding that the Contractor is in default of the Contract;
- (d) terminating the Contract;
- (e) declaring the Contractor to be in breach of Contract;
- (f) withholding payment or reimbursement;
- (g) determining not to renew the Contract;
- (h) assessing actual and consequential damages;
- (i) assessing liquidated damages or reducing fees, provided that liquidated damages may be based on amounts representing costs of delays in carrying out the purposes of the M/WBE Program, or in meeting the purposes of the Contract, the costs of meeting utilization goals through additional

procurements, the administrative costs of investigation and enforcement, or other factors set forth in the Contract;

(j) exercising rights under the Contract to procure goods, services or construction from another contractor and charge the cost of such contract to the Contractor that has been found to be in noncompliance; or

(k) taking any other appropriate remedy.

4. If an **M/WBE** Utilization Plan has been submitted, and pursuant to this Article II, Section 3, the Contractor has been found to have failed to fulfill its **Participation Goals** contained in its **M/WBE** Utilization Plan or the **Participation Goals** as modified by Agency pursuant to Article I, Part A, Section 11, Agency may assess liquidated damages in the amount of ten percent (10%) of the difference between the dollar amount of work required to be awarded to MBE and/or WBE firms to meet the **Participation Goals** and the dollar amount the Contractor actually awarded and paid, and/or credited, to MBE and/or WBE firms. In view of the difficulty of accurately ascertaining the loss which the City will suffer by reason of Contractor's failure to meet the **Participation Goals**, the foregoing amount is hereby fixed and agreed as the liquidated damages that the City will suffer by reason of such failure, and not as a penalty. Agency may deduct and retain out of any monies which may become due under this Contract the amount of any such liquidated damages; and in case the amount which may become due under this Contract shall be less than the amount of liquidated damages suffered by the City, the Contractor shall be liable to pay the difference.

5. Whenever Agency has reason to believe that any MBE and/or WBE is not qualified for certification, or is participating in a contract in a manner that does not serve a commercial useful function (as defined in Section 6-129(c)(8)), or has violated any provision of Section 6-129, Agency shall notify the Commissioner of DSBS who shall determine whether the certification of such business enterprise should be revoked.

6. Statements made in any instrument submitted to Agency pursuant to Section 6-129 shall be submitted under penalty of perjury and any false or misleading statement or omission shall be grounds for the application of any applicable criminal and/or civil penalties for perjury. The making of a false or fraudulent statement by an MBE and/or WBE in any instrument submitted pursuant to Section 6-129 shall, in addition, be grounds for revocation of its certification.

7. The Contractor's record in implementing its **M/WBE** Utilization Plan shall be a factor in the evaluation of its performance. Whenever Agency determines that a Contractor's compliance with an **M/WBE** Utilization Plan has been unsatisfactory, Agency shall, after consultation with the City Chief Procurement Officer, file an advice of caution form for inclusion in PASSPort as caution data.

Affirmation

The Bidder affirms and declares:

1. The said bidder is of lawful age and the only one interested in this bid; and no person, firm or corporation other than hereinbefore named has any interest in this bid, or in the Contract proposed to be taken.
2. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief: (1) the prices in this bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor; (2) unless otherwise required by law, the prices quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and (3) no attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.
3. No councilman or other officer or employee or person whose salary is payable in whole or in part from the City Treasury is directly or indirectly interested in this bid, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.
4. The bidder is not in arrears to the City of New York upon debt or contract or taxes, and is not a defaulter, as surety or otherwise, upon any obligation of the City of New York, and has not been declared not responsible, or disqualified, by any agency of the City of New York or State of New York, nor is there any proceeding pending relating to the responsibility or qualification of the bidder to receive public contracts except as disclosed in PASSPort.
5. The bidder hereby affirms that it has paid all applicable City income, excise and other taxes for all it has conducted business activities in New York City.
6. The bidder, as an individual, or as a member, partner, director or officer of the bidder, if the same be a firm, partnership or corporation, executes this document expressly warranting and representing that should this bid be accepted by the City and the Contract awarded to him, he and his subcontractors engaged in the performance:

(1) will comply with the provisions of Section 6-108 of the Administrative Code of the City of New York and the non-discrimination provisions of Section 220a of the New York State Labor Law, as more expressly and in detail set forth in the Agreement; (2) will comply with Section 6-109 of the Administrative Code of the City of New York in relation to minimum wages and other stipulations as more expressly and in detail set forth in the Agreement; (3) have complied with the provisions of the aforesaid laws since their respective effective dates, and (4) will post notices to be furnished by the City, setting forth the requirements of the aforesaid laws in prominent and conspicuous places in each and every plant, factory, building and structure where employees engaged in the performance of the Contract can readily view it, and will continue to keep such notices posted until the supplies, materials and equipment, or work labor and services required to be furnished or rendered by the Contractor have been finally accepted by the City. In the event of any breach or violation of the foregoing, the Contractor may be subject to damages, liquidated or otherwise, cancellation of the Contract and suspension as a bidder for a period of three years. (The words, "the bidder", "he", "his", and "him" where used shall mean the individual bidder, firm, partnership or corporation executing this bid).

7. Compliance Report

The bidder, as an individual, or as a member, partner, director, or officer of the bidder, if the same be a firm, partnership, or corporation, (1) represents that his attention has been specifically drawn to Executive Order No. 50, dated April 25, 1980, on Equal Employment Compliance of the contract, and (2) warrants that he will comply with the provisions of Executive Order No. 50. The Employment Report must be submitted as part of the bid.

8. The bidder, as an individual, or as a member, partner, director, or officer of the bidder, if the same be a firm, partnership, or corporation, executes this document expressly warranting that he will comply with: (1) the provision of the contract on providing records, Chapter 8.
9. By submission of this bid, the bidder certifies that it now has and will continue to have the financial capability to fully perform the work required for this contract. Any award of this contract will be made in reliance upon such certification. Upon request therefor, the bidder will submit written verification of such financial capability in a form that is acceptable to the department.
10. In accordance with Section 165 of the State Finance Law, the bidder agrees that tropical hardwoods, as defined in Section 165 of the State Finance Law, shall not be utilized in the performance of this Contract, except as the same are permitted by the foregoing provision of law.
11. The bidder has visited and examined the site of the work and has carefully examined the Contract in the form approved by the Corporation Counsel, and will execute the Contract and perform all its items, covenants and conditions, and will provide, furnish and deliver all the work, materials, supplies, tools and appliances for all labor and materials necessary or required for the hereinafter named work, all in strict conformity with the Contract, for the prices set forth in the Bid Schedule.
12. Certification Regarding Use of Contract Funds for Lobbying (FHWA 1273 Section XI.):
 - A. The Bidder certifies, by signing and submitting this bid, to the best of his or her knowledge and belief, that:
 - 1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
13. Sexual Harassment Prevention Certification for Construction Contract Bids:

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that the bidder has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all of its employees. Such policy shall, at a minimum, meet the requirements of section two hundred one-g of the labor law.

Bid Schedule

The Questionnaire in the PASSPort system contains the Bid Schedule. Items listed in the Bid Schedule shall comply with the requirements of the corresponding sections of the specifications detailed in the table below. All references to the Standard Specifications, Details, Standards and Drawings shall be to the version in effect at the time of bid.

NOTES:

- “XXX” in the table below signifies any possible combination of characters and spaces.
- The table below may contain item formats which are not included in the Bid Schedule.

Please refer to the Bid Schedule to determine which specifications apply.

Item Number Format	Applicable Specifications
4.XXX 6.XXX 7.XXX 8.XXX <i>(Except 8.01 XXX; see below)</i> 9.XXX HW-XXX	NYC Department of Transportation (“DOT”) Standard Highway Specifications, as amended in the R-Pages, located in Volume 3 of 3 herein; <p style="text-align: center;">AND</p> NYC DOT Standard Details of Construction; <p style="text-align: center;">OR,</p> <i>if the item is not contained within the Standard Specifications,</i> then see the applicable New Sections in the I-Pages, located in Volume 3 of 3 herein.
1.XXX 50.XXX through 55.XXX 60.XXX through 66.XXX 70.XXX through 79.XXX <i>(Except 79.11XXX; see below)</i> DSS XXX DSW XXX	NYC Department of Environmental Protection (“DEP”) Standard Sewer and Water Main Specifications, as amended in the R-Pages and SW-Pages, located in Volume 3 of 3 herein; <p style="text-align: center;">AND</p> NYC DEP Specifications for Trunk Main Work; <p style="text-align: center;">AND</p> NYC DEP Sewer Design Standards; <p style="text-align: center;">AND</p> NYC DEP Water Main Standard Drawings; <p style="text-align: center;">OR,</p> <i>if the item is not contained within the Standard Specifications,</i> then see the Amendments to the Standard Sewer and Water Main Specifications in the SW-Pages, located in Volume 3 of 3 herein.
GI-XXX PM-XXX ROW XXX	New Sections in the I-Pages, located in Volume 3 of 3 herein <p style="text-align: center;">AND</p> NYC DEP Standards for Green Infrastructure.

Item Number Format	Applicable Specifications
UTL-XXX	Gas Cost Sharing Standard Specifications in the EP7-Pages, located in Volume 3 of 3 herein.
83X.XXX MX.XXX MP XXX NYC-XXX NYCT-XXX NYPD-XXX P XXX PK-XXX	New Sections in the I-Pages, located in Volume 3 of 3 herein.
BMP-XXX	Specifications for Construction of Best Management Practice (BMP) and Mitigation Area in the BMP-Pages, located in Volume 3 of 3 herein.
E XXX ME XXX	Specifications for the Specialty Electrical Works in the EL-Pages, located in Volume 3 of 3 herein.
SL-XXX	NYC DOT Division of Street Lighting Specifications AND NYC Division of Street Lighting Standard Drawings.
T-XXX	NYC DOT Specifications for Traffic Signals and Intelligent Transportation Systems AND NYC DOT Traffic Signal Standard Drawings.
JB XXX	Joint Bid Specifications in the JB-Pages, located in Volume 3 of 3 herein.
8.01 XXX	Specifications for Handling, Transportation and Disposal of Nonhazardous and Potentially Hazardous Contaminated Materials in the HAZ-Pages, located in Volume 3 of 3 herein.
67.XXX	Specifications for Abatement of Coal Tar Wrap Asbestos Containing Materials in the ASB-Pages, located in Volume 3 of 3 herein.
79.11XXX	Specifications for Abatement of Transit Authority Duct Insulation Asbestos Containing Materials in the ASB-Pages, located in Volume 3 of 3 herein.

Pre-Award Process

The bidder is advised that as part of the pre-award review of its bid, it may be required to submit the information described in Sections (A) through (D) below. If required, the bidder must submit such information within five (5) business days following receipt of notification from DDC that it is among the low bidders. Such notification from DDC will be by email and will specify the types of information which must be submitted directly to DDC.

In the event the bidder fails to submit the required information within the specified time frame, its bid may be rejected as nonresponsive.

- (A) **Project Reference Form:** If required, the bidder must complete and submit the Project Reference Form set forth in this Bid Booklet. The Project Reference Form consists of 3 parts: (1) Contracts Completed by the Bidder, (2) Contracts Currently Under Construction by the Bidder, and (3) Pending Contracts Not Yet Started by the Bidder.
- (B) **Copy of License:** If required, the bidder must submit a copy of the license under which the bidder will be performing the work. Such license must clearly show the following: (1) Name of the Licensee, (2) License Number, and (3) Expiration date of the License. A copy of the license will be required from bidders for the following contracts: Plumbing Work, Electrical Work and Asbestos Abatement.
- (C) **Financial Information:** If required, the bidder must submit the financial information described below:
 - (1) **Audited Financial Statements:** Financial statements (Balance Sheet and Income Statement) of the entity submitting the bid, as audited by an independent auditor licensed to practice as a certified public accountant (CPA). Audited financial statements for the three most recent fiscal years must be submitted. Each such financial statement must include the auditor's standard report.

If the bidder does not have audited financial statements, it must submit an affidavit attesting to the fact that the bidder does not have such statements. In addition, the bidder must submit the following documentation covering the three most recent fiscal years: signed federal tax returns, unaudited financial statements, and a "certified review letter" from a certified public accountant (CPA) verifying the unaudited financial statements.

Unless the most recent audited or unaudited financial statement was issued within ninety (90) days, the bidder must submit interim financial information that includes data on financial position and results of operation (income data) for the current fiscal year. Such information may be summarized on a monthly or quarterly basis or at other intervals.
 - (2) **Schedule of Aged Accounts Receivable,** including portion due within ninety (90) days.

(D) **Project Specific Information:** If required, the bidder must submit the project specific information described below:

- (1) Statement indicating the number of years of experience the bidder has had and in what type of construction.
- (2) Resumes of all key personnel to be involved in the project, including the proposed project superintendent.
- (3) List of significant pieces of equipment expected to be used for the contract, and whether such equipment is owned or leased.
- (4) Description of work expected to be subcontracted, and to what firms, if known.
- (5) List of key material suppliers.
- (6) Preliminary bar chart time schedule
- (7) Contractor's expected means of financing the project. This should be based on the assumption that the contractor is required to finance 2X average monthly billings throughout the contract period.
- (8) Any other issues the contractor sees as impacting his ability to complete the project according to the contract.

In addition to the information described in Sections (A) through (D) above, the bidder shall submit such additional information as the Commissioner may require, including without limitation, an explanation or justification for specific unit price items.

The bidder is further advised that it may be required to attend a pre-award meeting with DDC representatives. If such a meeting is convened, the bidder will be advised as to any additional material to be provided.

BID SUBMISSION FORM

Bidder Name: ADC Construction, LLC
Procurement Title: 85021B0162- HWK797W Reconstruction Of Schenck Avenue
RFx Name: 85021B0162- HWK797W Reconstruction Of Schenck Avenue

The above-named bidder affirms and declares:

1. The bidder has completed and submitted all required information for the above procurement in the PASSPort system;
2. Any discrepancy between the bid price listed on this Bid Submission Form and the bid information submitted in PASSPort may result in the agency finding the bid non-responsive; and
3. This bid is being submitted in accordance with New York State General Municipal Law § 103.

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Total Bid Price: \$ 5,485,060³⁴
(a/k/a Total
Proposal Amount)

Bidder Signature

EIN (if applicable): 11-3353007
(EIN must match the EIN of the entity that submitted bid information in PASSPort)

Bidder Name: ADC Construction, LLC

By: Domenick Cipollone
(Name of Partner of Corporate Officer)

Signature: 
(Signature of Partner of Corporate Officer)

**NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN
BID SCHEDULE**

Project ID: HWK797W
ePIN: 8502180162

TOTAL BID PRICE: \$5,485,060.34

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Seq. No	Item Number	Item Description	Engineer's Estimate of Quantity	Unit	Unit Price	Extended Amount	Price Criteria
1	4.02 AF-R	ASPHALTIC CONCRETE WEARING COURSE, 2" THICK	2,872.00	S.Y.	\$26.20	\$75,246.40	
2	4.02 AG	ASPHALTIC CONCRETE WEARING COURSE, 3" THICK	9,064.00	S.Y.	\$36.05	\$326,757.20	
3	4.02 CB	ASPHALTIC CONCRETE MIXTURE	487.00	TONS	\$185.00	\$90,095.00	
4	4.04 H	CONCRETE BASE FOR PAVEMENT, VARIABLE THICKNESS FOR TRENCH RESTORATION, (HIGH-EARLY STRENGTH)	67.00	C.Y.	\$250.00	\$16,750.00	
5	4.04 HB	CONCRETE BASE FOR PAVEMENT, 7" THICK (HIGH-EARLY STRENGTH)	1,724.00	C.Y.	\$258.00	\$444,792.00	
6	4.08 AA	CONCRETE CURB (18" DEEP)	228.00	L.F.	\$12.50	\$2,850.00	
7	4.08 AC	CONCRETE CURB (19" DEEP)	3,205.00	L.F.	\$50.00	\$160,250.00	
8	4.09 AE	STRAIGHT STEEL FACED CONCRETE CURB (21" DEEP)	450.00	L.F.	\$65.00	\$29,250.00	
9	4.09 BDA	DEPRESSED STEEL FACED CONCRETE CURB (19" DEEP)	327.00	L.F.	\$100.00	\$32,700.00	
10	4.09 CDA	CORNER STEEL FACED CONCRETE CURB (19" DEEP)	452.00	L.F.	\$158.00	\$71,416.00	
11	4.11 CA	FILL, PLACE MEASUREMENT	67.00	C.Y.	\$16.00	\$1,072.00	
12	4.13 AAS	4" CONCRETE SIDEWALK (UNPIGMENTED)	45,076.00	S.F.	\$8.00	\$360,608.00	
13	4.13 BAS	7" CONCRETE SIDEWALK (UNPIGMENTED)	7,457.00	S.F.	\$14.00	\$104,398.00	
14	4.13 DE	EMBEDDED PREFORMED DETECTABLE WARNING UNITS	480.00	S.F.	\$16.00	\$7,680.00	
15	4.15	TOPSOIL	2.00	C.Y.	\$25.00	\$50.00	
16	4.16 AA	TREES REMOVED (4" TO UNDER 12" CALIPER)	1.00	EACH	\$500.00	\$500.00	
17	4.17 C1G	GRASSES PLANTED, 1 GALLON, ALL TYPES	97.00	EACH	\$40.00	\$3,880.00	
18	4.17 FB	FLOWERING BULB, PLANTED, ALL TYPES	170.00	EACH	\$3.00	\$510.00	
19	4.18 A	MAINTENANCE TREE PRUNING (UNDER 12" CAL.)	40.00	EACH	\$150.00	\$6,000.00	
20	4.18 B	MAINTENANCE TREE PRUNING (12" TO UNDER 18" CAL.)	3.00	EACH	\$200.00	\$600.00	
21	4.18 C	MAINTENANCE TREE PRUNING (18" TO UNDER 24" CAL.)	7.00	EACH	\$300.00	\$2,100.00	
22	4.18 D	MAINTENANCE TREE PRUNING (24" CAL. AND OVER)	9.00	EACH	\$350.00	\$3,150.00	
23	4.21	TREE CONSULTANT	118.00	P/HR	\$80.00	\$9,440.00	
24	50.21C4E024D	24" R.C.P. CLASS IV COMBINED SEWER, ENCASED IN CONCRETE	94.00	L.F.	\$1,250.00	\$117,500.00	
25	50.31CC12	12" E.S.V.P. COMBINED SEWER, ON CONCRETE CRADLE	194.00	L.F.	\$1,208.00	\$234,352.00	
26	50.31CC15	15" E.S.V.P. COMBINED SEWER, ON CONCRETE CRADLE	27.00	L.F.	\$1,208.00	\$32,616.00	
27	51.21C000000C	CLEANOUT MANHOLE	2.00	EACH	\$8,850.00	\$17,700.00	
28	51.21S0A1000E	STANDARD MANHOLE TYPE A-1 ON EXISTING SEWER	2.00	EACH	\$12,580.00	\$25,160.00	
29	51.23RF	REPLACEMENT OF EXISTING MANHOLE FRAME AND COVER	16.00	EACH	\$1,200.00	\$19,200.00	
30	51.41S001	STANDARD CATCH BASIN, TYPE 1	32.00	EACH	\$5,000.00	\$160,000.00	
31	51.41W001	SHALLOW CATCH BASIN NO. 1	1.00	EACH	\$4,000.00	\$4,000.00	
32	51.42S1S0	INCREMENTAL COST OF STANDARD CATCH BASIN TYPE 3 WITH CURB PIECE IN LIEU OF STANDARD CATCH BASIN TYPE 1	5.00	EACH	\$2,000.00	\$10,000.00	
33	51.71B00000	MODIFICATION OF EXISTING CATCH BASIN	2.00	EACH	\$1,800.00	\$3,600.00	
34	52.11D12	12" DUCTILE IRON PIPE BASIN CONNECTION	820.00	L.F.	\$158.00	\$129,560.00	
35	52.21V08	8" E.S.V.P. RISER FOR HOUSE CONNECTION	108.00	V.F.	\$15.00	\$1,620.00	
36	52.31D08M24	8" DUCTILE IRON PIPE SPUR FOR HOUSE CONNECTION ON 24" D.I.P. STORM SEWER	3.00	EACH	\$50.00	\$150.00	
37	52.31V08C12	8" E.S.V.P. SPUR FOR HOUSE CONNECTION ON 12" E.S.V.P. COMBINED SEWER	3.00	EACH	\$231.00	\$693.00	
38	52.31V08C15	8" E.S.V.P. SPUR FOR HOUSE CONNECTION ON 15" E.S.V.P. COMBINED SEWER	4.00	EACH	\$445.00	\$1,780.00	
39	55.11AB	ABANDONING BASINS AND INLETS	25.00	EACH	\$50.00	\$1,250.00	
40	6.02 AAN	UNCLASSIFIED EXCAVATION	3,600.00	C.Y.	\$100.00	\$360,000.00	
41	6.02 XHEC	INCREMENTAL COST FOR MODIFYING WORK METHODS NEAR (WITHIN 3 FEET OF) TRANSIT FACILITIES AND BUILDING VAULTS	155.00	C.Y.	\$85.00	\$13,175.00	
42	6.02 XSCW	INCREMENTAL COST FOR USING SPECIAL CARE WORK METHODS NEAR (FROM 3 FEET TO 50 FEET) TRANSIT FACILITIES	150.00	C.Y.	\$58.00	\$8,700.00	
43	6.22 F	ADDITIONAL HARDWARE	7,147.00	LBS.	\$0.25	\$1,786.75	
44	6.23 AB	REMOVE EXISTING FIRE ALARM POST	2.00	EACH	\$330.00	\$660.00	
45	6.23 BA	FURNISH AND INSTALL FIRE ALARM POST AND SUBBASE IN ACCORDANCE WITH F.D. STD. DWG. #141	2.00	EACH	\$1,750.00	\$3,500.00	
46	6.23 BD	FURNISH AND INSTALL 4-PAIR FIRE ALARM CABLE	220.00	L.F.	\$4.50	\$990.00	

**NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN
BID SCHEDULE**

Project ID: HWK797W
ePIN: 8502180162

TOTAL BID PRICE: \$5,485,060.34

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Seq. No	Item Number	Item Description	Engineer's Estimate of Quantity	Unit	Unit Price	Extended Amount	Price Criteria
47	6.23 BFB	FURNISH AND INSTALL FIRE DEPARTMENT 24 WIRE TERMINAL BOX AND TERMINATE FIRE ALARM CABLES	2.00	EACH	\$2,100.00	\$4,200.00	
48	6.23 BGSE	FURNISH AND INSTALL 4" P.V.C. CONDUIT, SCHEDULE 40, U.L. 651 (WITH PAVEMENT EXCAVATION)	45.00	L.F.	\$20.00	\$900.00	
49	6.23 BHE	FURNISH AND INSTALL 4" 90-DEGREE P.V.C. WIDE BEND, SCHEDULE 40, U.L. 651 (WITH PAVEMENT EXCAVATION) IN ACCORDANCE WITH F.D. STD. DWG. #141 OR #145AA	2.00	EACH	\$530.00	\$1,060.00	
50	6.23 BP	FURNISH AND INSTALL FIRE ALARM PEDESTAL BUMPERS (2 REQUIRED PER SET) IN ACCORDANCE WITH F.D. STD. DWG. #168	2.00	SETS	\$600.00	\$1,200.00	
51	6.25 RS	TEMPORARY SIGNS	2,112.00	S.F.	\$3.00	\$6,336.00	
52	6.26	TIMBER CURB	2,919.00	L.F.	\$1.85	\$5,400.15	
53	6.28 AA	LIGHTED TIMBER BARRICADES	1,327.00	L.F.	\$1.37	\$1,817.99	
54	6.34 ACT	TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH	2,800.00	L.F.	\$1.85	\$5,180.00	
55	6.36 DR	STRUCTURAL REPAIR AND ADJUSTMENT OF UTILITY STRUCTURES	10.00	C.Y.	\$120.00	\$1,200.00	
56	6.40 C	ENGINEER'S FIELD OFFICE (TYPE C)	30.00	MONTH	\$5,000.00	\$150,000.00	
57	6.43 D	DIGITAL PHOTOGRAPHS	1,623.00	SETS	\$20.00	\$32,460.00	
58	6.44	THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS (4" WIDE)	23,680.00	L.F.	\$0.85	\$20,128.00	
59	6.49	TEMPORARY PAVEMENT MARKINGS (4" WIDE)	4,184.00	L.F.	\$0.37	\$1,548.08	
60	6.50	CLEANING OF DRAINAGE STRUCTURES	30.00	EACH	\$10.00	\$300.00	
61	6.52 FED	UNIFORMED FLAGPERSON	1.00	F.S.	\$707,123.00	\$707,123.00	PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 707,123.00
62	6.53	REMOVE EXISTING LANE MARKINGS (4" WIDE)	3,884.00	L.F.	\$0.50	\$1,942.00	
63	6.55	SAWCUTTING EXISTING PAVEMENT	1,292.00	L.F.	\$1.85	\$2,390.20	
64	6.68	PLASTIC FILTER FABRIC	183.00	S.Y.	\$2.00	\$366.00	
65	6.75	GRINDING EXISTING ASPHALTIC CONCRETE WEARING COURSE	230.00	C.Y.	\$306.00	\$70,380.00	
66	6.82 A	REMOVING EXISTING TRAFFIC AND STREET NAME SIGNS	169.00	S.F.	\$8.00	\$1,352.00	
67	6.82 B	REMOVING EXISTING TRAFFIC AND STREET NAME SIGN POSTS	200.00	L.F.	\$8.00	\$1,600.00	
68	6.83 AA	FURNISHING NEW NON-REFLECTORIZED TRAFFIC SIGNS	57.00	S.F.	\$33.00	\$1,881.00	
69	6.83 AB	FURNISHING NEW TRAFFIC SIGN POSTS	696.00	L.F.	\$15.00	\$10,440.00	
70	6.83 AR	FURNISHING NEW REFLECTORIZED TRAFFIC SIGNS	67.00	S.F.	\$37.00	\$2,479.00	
71	6.83 BA	INSTALLING TRAFFIC SIGNS	124.00	S.F.	\$25.00	\$3,100.00	
72	6.83 BB	INSTALLING TRAFFIC SIGN POSTS	696.00	L.F.	\$25.00	\$17,400.00	
73	6.86 AA	FURNISHING NEW STREET NAME SIGNS	45.00	S.F.	\$53.00	\$2,385.00	
74	6.86 BA	INSTALLING STREET NAME SIGNS	45.00	S.F.	\$43.00	\$1,935.00	
75	6.86 BB	INSTALLING STREET NAME SIGN POSTS	336.00	L.F.	\$26.00	\$8,736.00	
76	6.87	PLASTIC BARRELS	2,291.00	EACH	\$3.00	\$6,873.00	
77	6.91	REFLECTIVE CRACKING MEMBRANE (18" WIDE)	3,680.00	L.F.	\$3.50	\$12,880.00	
78	6.99	AUDIO AND VIDEO DOCUMENTATION SURVEY	1.00	L.S.	\$4,000.00	\$4,000.00	
79	60.11R520	FURNISHING AND DELIVERING 20-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 55)	27.00	L.F.	\$300.00	\$8,100.00	
80	60.11R606	FURNISHING AND DELIVERING 6-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)	48.00	L.F.	\$85.00	\$4,080.00	
81	60.11R608	FURNISHING AND DELIVERING 8-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)	40.00	L.F.	\$100.00	\$4,000.00	
82	60.12D06	LAYING 6-INCH DUCTILE IRON PIPE AND FITTINGS	52.00	L.F.	\$185.00	\$9,620.00	
83	60.12D08	LAYING 8-INCH DUCTILE IRON PIPE AND FITTINGS	44.00	L.F.	\$231.00	\$10,164.00	
84	60.12D20	LAYING 20-INCH DUCTILE IRON PIPE AND FITTINGS	22.00	L.F.	\$231.00	\$5,082.00	
85	60.13M0A24	FURNISHING AND DELIVERING DUCTILE IRON MECHANICAL JOINT 24-INCH DIAMETER AND SMALLER FITTINGS, INCLUDING WEDGE TYPE RETAINER GLANDS	1.40	TONS	\$15,310.00	\$21,434.00	
86	61.11DMM06	FURNISHING AND DELIVERING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	6.00	EACH	\$1,300.00	\$7,800.00	

**NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION
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Project ID: HWK797W
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TOTAL BID PRICE: \$5,485,060.34

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Seq. No	Item Number	Item Description	Engineer's Estimate of Quantity	Unit	Unit Price	Extended Amount	Price Criteria
87	61.11DMM08	FURNISHING AND DELIVERING 8-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	8.00	EACH	\$1,850.00	\$14,800.00	
88	61.11DMM20	FURNISHING AND DELIVERING 20-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	4.00	EACH	\$18,500.00	\$74,000.00	
89	61.12DMM06	SETTING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	6.00	EACH	\$580.00	\$3,480.00	
90	61.12DMM08	SETTING 8-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	4.00	EACH	\$1,800.00	\$7,200.00	
91	61.12DMM20	SETTING 20-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	2.00	EACH	\$2,400.00	\$4,800.00	
92	62.11SD	FURNISHING AND DELIVERING HYDRANTS	6.00	EACH	\$4,000.00	\$24,000.00	
93	62.12SG	SETTING HYDRANTS COMPLETE WITH WEDGE TYPE RETAINER GLANDS	6.00	EACH	\$1,800.00	\$10,800.00	
94	62.13RH	REMOVING HYDRANTS	6.00	EACH	\$400.00	\$2,400.00	
95	62.14FS	FURNISHING, DELIVERING AND INSTALLING HYDRANT FENDERS	12.00	EACH	\$370.00	\$4,440.00	
96	63.11VC	FURNISHING AND DELIVERING VARIOUS CASTINGS	5.00	TONS	\$100.00	\$500.00	
97	64.11EL	WITHDRAWING AND REPLACING HOUSE SERVICES USING 1-1/2-INCH OR LARGER SCREW TAPS	20.00	EACH	\$140.00	\$2,800.00	
98	65.11BR	FURNISHING, DELIVERING AND INSTALLING BANDS, RODS, WASHERS, ETC., COMPLETE, FOR RESTRAINING JOINTS	77.00	LBS.	\$2.00	\$154.00	
99	65.21PS	FURNISHING AND PLACING POLYETHYLENE SLEEVE	30.00	L.F.	\$0.64	\$19.20	Unit price bid shall not be less than: \$ 0.64
100	7.13 B	MAINTENANCE OF SITE	24.00	MONTH	\$7,500.00	\$180,000.00	Unit price bid shall not be less than: \$ 7,500.00
101	7.16 D	TEST PITS	50.00	C.Y.	\$185.00	\$9,250.00	
102	7.30 A	REMOVAL OF TRACK	68.00	C.Y.	\$58.00	\$3,944.00	
103	7.35	PEDESTRIAN CHANNELIZER	125.00	L.F.	\$5.85	\$731.25	
104	7.36	PEDESTRIAN STEEL BARRICADES	11,854.00	L.F.	\$1.58	\$18,729.32	
105	7.88 AA	RODENT INFESTATION SURVEY AND MONITORING	1.00	L.S.	\$2,000.00	\$2,000.00	Unit price bid shall not be less than: \$ 2,000.00
106	7.88 AB	RODENT BAIT STATIONS	63.00	EACH	\$60.00	\$3,780.00	Unit price bid shall not be less than: \$ 60.00
107	7.88 AC	BAITING OF RODENT BAIT STATIONS	63.00	EACH	\$25.00	\$1,575.00	Unit price bid shall not be less than: \$ 9.50
108	7.88 AD	WATERBUG BAIT APPLICATIONS	10.00	BLOCK	\$65.00	\$650.00	Unit price bid shall not be less than: \$ 65.00
109	70.61RE	ROCK EXCAVATION	5.00	C.Y.	\$200.00	\$1,000.00	
110	70.81CB	CLEAN BACKFILL	850.00	C.Y.	\$15.00	\$12,750.00	Unit price bid shall not be less than: \$ 15.00
111	70.91SW12	FURNISHING AND PLACING SHEETING AND BRACING IN TRENCH FOR WATER MAIN PIPE 12-INCH IN DIAMETER AND LESS	192.00	S.F.	\$1.50	\$288.00	
112	70.91SW20	FURNISHING AND PLACING SHEETING AND BRACING IN TRENCH FOR WATER MAIN PIPE 20-INCH IN DIAMETER	96.00	S.F.	\$2.00	\$192.00	
113	8.01 C1	HANDLING, TRANSPORTING AND DISPOSAL OF NON-HAZARDOUS CONTAMINATED SOIL	500.00	TONS	\$85.00	\$42,500.00	Unit price bid shall not be less than: \$ 85.00
114	8.01 C2	SAMPLING AND TESTING OF CONTAMINATED/POTENTIALLY HAZARDOUS SOIL FOR DISPOSAL PURPOSES	6.00	SETS	\$2,320.00	\$13,920.00	Unit price bid shall not be less than: \$ 2,320.00
115	8.01 H	HANDLING, TRANSPORTING AND DISPOSAL OF HAZARDOUS SOIL	50.00	TONS	\$400.00	\$20,000.00	Unit price bid shall not be less than: \$ 400.00
116	8.01 S	HEALTH AND SAFETY	1.00	L.S.	\$20,000.00	\$20,000.00	Unit price bid shall not be less than: \$ 20,000.00
117	8.01 W1	REMOVAL, TREATMENT, AND DISCHARGE/DISPOSAL OF CONTAMINATED WATER	25.00	DAY	\$1,700.00	\$42,500.00	Unit price bid shall not be less than: \$ 1,700.00
118	8.01 W2	SAMPLING AND TESTING OF CONTAMINATED WATER	25.00	SETS	\$1,400.00	\$35,000.00	Unit price bid shall not be less than: \$ 1,400.00
119	8.02 A	SPECIAL CARE EXCAVATION AND RESTORATION FOR SIDEWALK WORK	494.00	S.F.	\$2.00	\$988.00	
120	8.02 B	SPECIAL CARE EXCAVATION AND RESTORATION FOR CURB WORK	290.00	L.F.	\$13.00	\$3,770.00	
121	8.22 D	THREE PLY MEMBRANE WATERPROOFING	495.00	S.F.	\$5.00	\$2,475.00	
122	8.32	BARK CHIP MULCH	328.00	S.Y.	\$2.00	\$656.00	
123	9.00 C	EXPLORATORY TEST PITS	108.00	C.F.	\$16.00	\$1,728.00	
124	9.30	STORM WATER POLLUTION PREVENTION	1.00	L.S.	\$8,500.00	\$8,500.00	
125	GI-2.06	L-SHAPED EDGING	148.00	L.F.	\$23.00	\$3,404.00	
126	GI-2.07D1	2"-5" CLEAN OPEN GRADED STONE (TYPE D1)	75.00	C.Y.	\$100.00	\$7,500.00	

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127	GI-2.08 L	IMPERMEABLE LINER	590.00	S.F.	\$3.88	\$2,289.20	
128	GI-2.09DR-NW	NON-WOVEN GEOTEXTILE FABRIC FOR DRAINAGE	344.00	S.Y.	\$2.40	\$825.60	
129	GI-2.10PC-B1	STEEL TREE PIT GUARD - POWDER COATED – TYPE 'B1' – BOLTED	216.00	L.F.	\$185.00	\$39,960.00	
130	GI-2.10SM	STEEL TREE GUARD MOUNT	8.00	EACH	\$180.00	\$1,440.00	
131	GI-2.10TS	TREE GUARD EDUCATIONAL SIGN	8.00	EACH	\$180.00	\$1,440.00	
132	GI-2.13	ENGINEERED SOIL	40.00	C.Y.	\$185.00	\$7,400.00	
133	GI-2.16 AC9	DEBRIS SCREEN FOR PIPE (9" DIA.)	1.00	EACH	\$68.00	\$68.00	
134	GI-2.16 FPA	FULL PERFORATED HDPE PIPE (8" DIA.)	23.00	L.F.	\$13.00	\$299.00	
135	GI-2.16S30	SOLID HDPE PIPE (30" DIA)	4.00	L.F.	\$126.00	\$504.00	
136	GI-2.17 A	GABION (WITH CLEAN OPEN GRADED STONE)	17.00	C.Y.	\$370.00	\$6,290.00	
137	GI-2.19	HDPE STORM WATER CHAMBER	2.00	L.F.	\$200.00	\$400.00	
138	GI-4.06 A	REINFORCED CONCRETE APRON	77.00	S.F.	\$15.00	\$1,155.00	
139	GI-4.06 CG	REINFORCED CONCRETE GUTTER	142.00	L.F.	\$23.00	\$3,266.00	
140	GI-4.06 CO	CONCRETE WALKWAY AND FOOTER FOR HYDRAULICALLY CONNECTED GREEN INFRASTRUCTURE PRACTICES	15.00	L.F.	\$40.00	\$600.00	
141	GI-4.06 CS	CONCRETE STRIP	148.00	L.F.	\$16.00	\$2,368.00	
142	GI-4.15	TOPSOIL (FOR TYPE D BIOSWALE)	180.00	C.Y.	\$3.00	\$540.00	
143	GI-4.16 BA	TREES PLANTED, 2-1/2" TO 3" CALIPER, ALL TYPES	4.00	EACH	\$3,000.00	\$12,000.00	
144	GI-4.17 D2G	SHRUBS PLANTED, DECIDUOUS, 2 GALLON, ALL TYPES	130.00	EACH	\$46.00	\$5,980.00	
145	GI-4.17 PG1G	PERENNIALS OR GROUNDCOVERS. PLANTED. 1 GALLON. ALL TYPES	51.00	EACH	\$37.00	\$1,887.00	
146	GI-5.10	STONE COLUMN	155.00	V.F.	\$285.00	\$44,175.00	
147	GI-5.10 OW	OBSERVATION WELL	1.00	EACH	\$300.00	\$300.00	
148	GI-5.13C	STORMWATER INLET (ROW GI TYPE D)	1.00	EACH	\$800.00	\$800.00	
149	GI-5.35	SLEEVE FOR UTILITY CROSSINGS	10.00	L.F.	\$8.00	\$80.00	
150	GI-6.02 PA	PNEUMATIC EXCAVATION AROUND TREES	122.00	C.Y.	\$137.00	\$16,714.00	
151	GI-6.02 PB	BACKFILLING AROUND TREES	10.00	C.Y.	\$130.00	\$1,300.00	
152	GI-6.09T1	CONCRETE HEADER, TRAPEZOID-SHAPE (6" WIDE AT TOP X 15" DEEP X 9" WIDE AT BASE)	240.00	L.F.	\$58.00	\$13,920.00	
153	GI-7.13E	MAINTENANCE OF GI SITE	8.00	EACH	\$3,100.00	\$24,800.00	
154	GI-8.20A	EROSION CONTROL MATTING	87.00	S.Y.	\$16.00	\$1,392.00	
155	GI-P1	PHOTO DOCUMENTATION	8.00	SETS	\$300.00	\$2,400.00	
156	NYCT-7A.1	MEMBRANE WATERPROOFING	120.00	S.F.	\$22.00	\$2,640.00	
157	NYCT-7A.2	WATERPROOFING PROTECTION BOARD	120.00	S.F.	\$13.00	\$1,560.00	
158	SL-20.02.02	FURNISH AND INSTALL STANDARD TYPE ANCHOR BOLT FOUNDATION, AS PER DRAWING E-3788	9.00	EACH	\$1,450.00	\$13,050.00	
159	SL-20.08.01	REMOVE STANDARD TYPE ANCHOR BOLT CONCRETE FOUNDATION	4.00	EACH	\$400.00	\$1,600.00	
160	SL-21.03.02	FURNISH AND INSTALL TYPE 2S, 4S, 6S, 8S OR 12S LAMPPPOST WITH TRANSFORMER BASE	5.00	EACH	\$2,450.00	\$12,250.00	
161	SL-21.03.03	FURNISH AND INSTALL TYPE 2T, 6T, 8T OR 12T LAMPPPOST WITH TRANSFORMER BASE	4.00	EACH	\$2,565.00	\$10,260.00	
162	SL-21.09.05	REMOVE STANDARD FABRICATED STEEL, SPUN ALUMINUM NO. 10, ETC. WITH ARM(S), LUMINAIRE(S), CONTROL(S) WITH ALL ATTACHMENTS, IF ANY.	4.00	EACH	\$410.00	\$1,640.00	
163	SL-21.09.08	REMOVE ALL STREET LIGHTING EQUIPMENT FROM TYPE "M-2" TRAFFIC POST (ARM(S), PHOTOELECTRIC CONTROLLER, LUMINAIRE(S), SHAFT EXTENSION, WIRING, ETC.)	2.00	EACH	\$295.00	\$590.00	
164	SL-22.16.05	FURNISH AND INSTALL ROADWAY TYPE LED FIXTURE AS PER SPECIFICATION 466 WITH PEC RECEPTACLE AND PEC	27.00	EACH	\$270.00	\$7,290.00	
165	SL-24.01.04	REMOVE BRACKET, LUMINAIRE AND CONTROL, IF ANY, FROM WOOD POLE	2.00	EACH	\$165.00	\$330.00	
166	SL-24.01.05	FURNISH AND INSTALL FABRICATED STEEL 8 Ft. BRACKET WITH HARDWARE ON WOOD POLE, AS PER DRAWING J-3585.	5.00	EACH	\$595.00	\$2,975.00	

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167	SL-24.02.02	FURNISH AND INSTALL FABRICATED STEEL 8 Ft. ARM ON LAMPPPOST OR "M-2" TRAFFIC POLE SHAFT EXTENSION.	9.00	EACH	\$640.00	\$5,760.00	
168	SL-24.02.05	INSTALL ARM, FURNISH AND INSTALL ADAPTER ON LAMPPPOST OR "M-2" TRAFFIC POLE, AS PER DRAWINGS H-5076, H-5076A, J-5039 AND J-5039A	1.00	EACH	\$540.00	\$540.00	
169	SL-24.02.16	FURNISH AND INSTALL FABRICATED STEEL 6 FT. SHAFT EXTENSION (SINGLE ARM) FOR "M-2" TRAFFIC POST AS PER DWGs H-5159 OR H-5255.	4.00	EACH	\$785.00	\$3,140.00	
170	SL-24.02.33	FURNISH AND INSTALL FABRICATED STEEL 6ft. SHAFT EXTENSION (TWIN ARMS) FOR "M-2" TRAFFIC POST AS PER DWGs H-5159, OR H-5255.	2.00	EACH	\$1,010.00	\$2,020.00	
171	SL-26.01.04	FURNISH AND INSTALL LONG LIFE PHOTO ELECTRIC CONTROL WITH SURGE PROTECTION FOR LED LIGHT	17.00	EACH	\$50.00	\$850.00	
172	T-1.1	INSTALL TYPE "S" OR "T" FOUNDATION	20.00	EACH	\$1,850.00	\$37,000.00	
173	T-1.18	REMOVE TYPE "A", "B", "S" OR "T" SERIES FOUNDATION	2.00	EACH	\$400.00	\$800.00	
174	T-1.20	REMOVE TYPE "M" SERIES FOUNDATION	8.00	EACH	\$400.00	\$3,200.00	
175	T-1.3	INSTALL TYPE "M2-5S" FOUNDATION	9.00	EACH	\$2,460.00	\$22,140.00	
176	T-1.6	INSTALL TYPE "M2-5T" FOUNDATION	1.00	EACH	\$2,460.00	\$2,460.00	
177	T-2.1	INSTALL TYPE "S-1" OR "T-1" SERIES POST	20.00	EACH	\$330.00	\$6,600.00	
178	T-2.16	FURNISH, INSTALL, MAINTAIN AND REMOVE TEMPORARY POST OR PYLON WITH SIGNALS	2.00	EACH	\$815.00	\$1,630.00	
179	T-2.22	REMOVE TYPE "S-1" OR "T-1" SERIES POST	2.00	EACH	\$295.00	\$590.00	
180	T-2.24	REMOVE TYPE "M" SERIES POST	9.00	EACH	\$820.00	\$7,380.00	
181	T-2.28	REMOVE MAST ARM FROM ANY POST	2.00	EACH	\$165.00	\$330.00	
182	T-2.4	INSTALL TYPE "M-2" POST	10.00	EACH	\$980.00	\$9,800.00	
183	T-20000	FURNISH TEN FOOT ALUMINUM SIGNAL POST TYPE "S-1"	20.00	EACH	\$435.00	\$8,700.00	
184	T-20020	a) FURNISH 3/4" ANCHOR BOLT ASSEMBLIES FOR S-1 (EACH) (3 REQUIRED PER POST)	60.00	EACH	\$13.00	\$780.00	
185	T-20160	FURNISH 20 FOOT SIGNAL MAST ARM POLE ASSEMBLY TYPE "M-2"	10.00	EACH	\$4,340.00	\$43,400.00	
186	T-20184	a) FURNISH 5' EXTENSION ARM ASSEMBLY WITH FITTINGS	9.00	EACH	\$190.00	\$1,710.00	
187	T-20220	c) FURNISH 1-1/4" ANCHOR BOLT ASSEMBLIES FOR M-2 (EACH) (4 REQUIRED PER POST)	40.00	EACH	\$50.00	\$2,000.00	
188	T-3.1	INSTALL "ONE-WAY" SIGNAL UNIT ON MAST ARM OR TOP OF TRAFFIC POST	36.00	EACH	\$165.00	\$5,940.00	
189	T-3.18	REMOVE SIGNAL HEAD FROM ANY TYPE POST	10.00	EACH	\$215.00	\$2,150.00	
190	T-3.21	REMOVE PEDESTRIAN SIGNAL OR SIGN UNIT OR OTHER ILLUMINATED SIGNS FROM ANY POST	36.00	EACH	\$195.00	\$7,020.00	
191	T-3.40	INSTALL AUDIBLE PEDESTRIAN SIGNALS UNIT	40.00	EACH	\$420.00	\$16,800.00	
192	T-3.6	INSTALL PEDESTRIAN SIGNAL ON ANY TYPE POST	40.00	EACH	\$225.00	\$9,000.00	
193	T-30013L	FURNISH ADJUSTABLE 3 SECTION 1-WAY, DIE CAST ALUMINUM TRAFFIC SIGNALS 8" - W/LED LENS	36.00	EACH	\$265.00	\$9,540.00	
194	T-31210	h) "HUB" ASSEMBLY *ASSEMBLY IS EQUAL TO ONE PAIR	40.00	EACH	\$22.00	\$880.00	
195	T-31225	c) "3MS"	4.00	EACH	\$190.00	\$760.00	
196	T-31235	d) "4MS"	6.00	EACH	\$195.00	\$1,170.00	
197	T-31340	f) "VB-P" ASSEMBLY *ASSEMBLY IS EQUAL TO ONE PAIR	40.00	EACH	\$62.00	\$2,480.00	
198	T-31351	g) "VB-2P" ASSEMBLY *ASSEMBLY IS EQUAL TO ONE PAIR	1.00	EACH	\$154.00	\$154.00	
199	T-33000L	FURNISH POLYCARBONATE INCANDESCENT PED SIGNAL W/LED LENS	16.00	EACH	\$190.00	\$3,040.00	
200	T-33001-L	FURNISH POLYCARBONATE PEDESTRIAN SIGNAL (16 X 16) W/LED COUNT LENS (SPECIFICATION A-L)	24.00	EACH	\$230.00	\$5,520.00	
201	T-33002	FURNISH AUDIBLE PEDESTRIAN SIGNAL UNIT	40.00	EACH	\$510.00	\$20,400.00	
202	T-4.22	INSTALL ANY TYPE OF ADVANCED SOLID STATE TRAFFIC SIGNAL CONTROLLER AND CABINET ON METAL POLE	5.00	EACH	\$1,400.00	\$7,000.00	
203	T-4.8	REMOVE ONE CONTROL BOX AND CONTROLLER FROM ANY POST OR SUPPORT	5.00	EACH	\$490.00	\$2,450.00	
204	T-5.28	FURNISH AND INSTALL 2" RIGID CONDUIT INTO MANHOLE	2.00	EACH	\$220.00	\$440.00	
205	T-5.31	FURNISH AND INSTALL 2" FLEXIBLE BEND IN EXISTING FOUNDATION	1.00	EACH	\$455.00	\$455.00	
206	T-5.36	REMOVE CONDUIT FROM POST	40.00	L.F.	\$18.00	\$720.00	

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207	T-5.50	FURNISH AND INSTALL 2" HDPE UNDERGROUND CONDUIT IN PAVED ROADWAY	50.00	L.F.	\$100.00	\$5,000.00	
208	T-5.52	FURNISH AND INSTALL 2" HDPE UNDERGROUND CONDUIT IN UNPAVED AREA	1,440.00	L.F.	\$45.00	\$64,800.00	
209	T-5.54	PERMANENT RESTORATION OF PAVED ROADWAY	50.00	L.F.	\$50.00	\$2,500.00	
210	T-6.1	INSTALL CABLE (INCLUDES OVERHEAD)	1,500.00	L.F.	\$4.65	\$6,975.00	
211	T-6.10	REMOVE CABLE (INCLUDES OVERHEAD)	2,500.00	L.F.	\$4.65	\$11,625.00	
212	T-6.2	INSTALL MULTIPLE CABLE (INCLUDES OVERHEAD)	2,500.00	L.F.	\$8.55	\$21,375.00	
213	T-60000B	FURNISH 2 c # 10B (BREAKDOWN = 2#10 WITH 3RD WIRE FOR GROUNDING).	2,000.00	L.F.	\$2.25	\$4,500.00	
214	T-60040	c) 7 CONDUCTOR, 14 A.W.G.	1,500.00	L.F.	\$1.75	\$2,625.00	
215	T-60190	e) 13 CONDUCTOR, 14 A.W.G.	2,500.00	L.F.	\$3.10	\$7,750.00	
216	T-60200	FURNISH AND INSTALL AUDIBLE PEDESTRIAN SIGNALS CABLE	500.00	L.F.	\$6.20	\$3,100.00	
217	T-7.47	REMOVE JUNCTION BOX	2.00	EACH	\$185.00	\$370.00	
218	T-8.8	INSTALL CONCRETE PYLON	10.00	EACH	\$855.00	\$8,550.00	
219	T-8.9	REMOVE CONCRETE PYLON	10.00	EACH	\$490.00	\$4,900.00	
220	T-81000	FURNISH CONCRETE PYLON	10.00	EACH	\$505.00	\$5,050.00	
221	UTL-6.01.8 (NG)	GAS SERVICES CROSSING TRENCHES AND/OR EXCAVATIONS (\$6.01)	8.00	EACH	\$550.00	\$4,400.00	Unit price bid shall not be less than: \$ 550.00
222	UTL-6.03 (NG)	REMOVAL OF ABANDONED GAS FACILITIES. ALL SIZES. (\$6.03)	500.00	L.F.	\$15.00	\$7,500.00	Unit price bid shall not be less than: \$ 15.00
223	UTL-6.03.1 (NG)	REMOVAL OF ABANDONED GAS FACILITIES WITH POSSIBLE COAL TAR WRAP. ALL SIZES. (FOR NATIONAL GRID WORK ONLY) (\$6.03)	1,000.00	L.F.	\$25.00	\$25,000.00	Unit price bid shall not be less than: \$ 25.00
224	UTL-6.04 (NG)	ADJUST HARDWARE TO GRADE USING SPACER RINGS/ADAPTORS. (STREET REPAVING.) (\$6.04)	13.00	EACH	\$35.00	\$455.00	Unit price bid shall not be less than: \$ 35.00
225	UTL-6.05 (NG)	ADJUST HARDWARE TO GRADE BY RESETTNG. (ROAD RECONSTRUCTION.) (\$6.05)	15.00	EACH	\$65.00	\$975.00	Unit price bid shall not be less than: \$ 65.00
226	UTL-6.06 (NG)	SPECIAL CARE EXCAVATION AND BACKFILLING (\$6.06)	400.00	C.Y.	\$180.00	\$72,000.00	Unit price bid shall not be less than: \$ 180.00
227	UTL-6.07 (NG)	TEST PITS FOR GAS FACILITIES (\$6.07)	30.00	C.Y.	\$100.00	\$3,000.00	Unit price bid shall not be less than: \$ 100.00
228	UTL-6.09 (NG)	TRENCH EXCAVATION AND BACKFILL FOR GAS MAINS AND SERVICES. GAS INSTALLED BY OTHERS (FOR NATIONAL GRID WORK ONLY). (\$6.09)	50.00	C.Y.	\$190.00	\$9,500.00	Unit price bid shall not be less than: \$ 190.00
229	UTL-GCS-2WS (NG)	GAS INTERFERENCES AND ACCOMMODATIONS	1.00	F.S.	\$50,000.00	\$50,000.00	PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 50,000.00
		SUBTOTAL				\$5,472,060.34	
230	6.39 B	MOBILIZATION	1.00	L.S.	\$13,000.00	\$13,000.00	BID PRICE OF MOBILIZATION SHALL NOT EXCEED 8% OF THE ABOVE SUB-TOTAL PRICE.

QUALIFICATION FORM

Name of Contractor: ADC Construction, LLC

Name of Project: School Safety Traffic Measures

Location of Project: Bronx, Manhattan & Brooklyn

Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:

Name: Marie Brandao

Title: Deputy Director Phone Number: 718 391-2430

Brief description of the Project completed or the Project in progress:

Sewer, Water Mains & Highway

Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Prime

Amount of Contract, Subcontract or Sub-subcontract: \$3,958,180

Start Date and Completion Date: 3/8/16 to 10/6/17

Name of Contractor: ADC Construction, LLC

Name of Project: HWK100BUS Utica Ave Select Bus Service

Location of Project: Brooklyn

Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:

Name: Lafayette Cisco

Title: Engineer-In-Charge Phone Number: 718 391-1744

Brief description of the Project completed or the Project in progress:

Sewer, Water Mains & Highway

Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Prime

Amount of Contract, Subcontract or Sub-subcontract: \$14,856,201

Start Date and Completion Date: 10/18/17 to 12/18/19

SAFETY QUESTIONNAIRE

The Bidder must include, with its bid, all information requested on this Safety Questionnaire. Failure to provide a completed and signed Safety Questionnaire at the time of bid opening may result in disqualification of the bid as non-responsive. This Safety Questionnaire will be reviewed as per Section V of the Safety Requirements for Construction Contracts, found in Volume 2 of the Contract.

1. Bidder Information:

Company Name: ADC CONSTRUCTION, LLC

DDC Project Number: HWK797W

Company Size: ☐ Ten (10) employees or less

☒ Greater than ten (10) employees

Company has previously worked for DDC: ☒ YES ☐ NO

2. Type(s) of Construction Work:

Identify the types of work that the Bidder has performed in the last three years, and the types of work that are part of this Contract.

<u>TYPE OF WORK</u>	<u>LAST 3 YEARS</u>	<u>THIS PROJECT</u>
General Building Construction	<input type="checkbox"/>	<input type="checkbox"/>
Residential Building Construction	<input type="checkbox"/>	<input type="checkbox"/>
Nonresidential Building Construction	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Construction, except building	<input type="checkbox"/>	<input type="checkbox"/>
Highway and Street Construction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heavy Construction, except highways	<input type="checkbox"/>	<input type="checkbox"/>
Plumbing, Heating, HVAC	<input type="checkbox"/>	<input type="checkbox"/>
Painting and Paper Hanging	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Work	<input type="checkbox"/>	<input type="checkbox"/>
Masonry, Stonework and Plastering	<input type="checkbox"/>	<input type="checkbox"/>
Carpentry and Floor Work	<input type="checkbox"/>	<input type="checkbox"/>
Roofing, Siding, and Sheet Metal	<input type="checkbox"/>	<input type="checkbox"/>
Concrete Work	<input type="checkbox"/>	<input type="checkbox"/>
Specialty Trade Contracting	<input type="checkbox"/>	<input type="checkbox"/>
Asbestos Abatement	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>

3. Experience Modification Rate:

The Experience Modification Rate (EMR) is a rating generated by the National Council of Compensation Insurance (NCCI). This rating is used to determine the contractor's premium for worker's compensation insurance. The Bidder / Contractor may obtain its EMR by contacting its insurance broker or the NCCI. If the Bidder cannot obtain its EMR, it must submit a written explanation as to why.

The Bidder must indicate its Intrastate and Interstate EMR for the past three years. [Note: For contractors with less than three years of experience, the EMR will be considered to be 1.00].

YEAR	INTRASTATE RATE	INTERSTATE RATE
2019	0.88	
2020	1.00	
2021	1.00	

If the Intrastate and/or Interstate EMR for any of the past three years is greater than 1.00, the Bidder / Contractor must attach, to this questionnaire, a written explanation for the rating and identify what corrective action was taken to correct the situation resulting in that rating.

4. OSHA Information:

- ☐ YES ☒ NO Contractor has received a willful violation issued by OSHA or a New York City Department of Buildings (NYCDOB) construction-related violation within the last three years.
- ☐ YES ☒ NO Contractor has had an incident requiring OSHA notification within 8 hours (all work-related fatalities) or an incident requiring OSHA notification within 24 hours (work-related in-patient hospitalization, amputation and all loss of an eye).

The OSHA Form 300 "Log of Work-Related Injuries and Illnesses" and OSHA Form 300A "Summary of Work-Related Injuries and Illnesses" must be submitted for the last three years for Contractors with more than ten employees.

The Bidder / Contractor must indicate the total number of hours worked by its employees, as reflected in payroll records for the past three (3) years.

The Bidder / Contractor must submit the Incident Rate for Lost Time Injuries (the Incident Rate) for the past three (3) years. The Incident Rate is calculated in accordance with the formula set forth below. For each given year, the total number of incidents is the total number of non-fatal injuries and illnesses reported on the OSHA Form 300 and OSHA Form 300A. The 200,000 hours represents the equivalent of 100 employees working forty hours a week, fifty (50) weeks per year.

Incident Rate =
$$\frac{\text{Total Number of Incidents} \times 200,000}{\text{Total Number of Hours Worked by Employees}}$$

YEAR	TOTAL NUMBERS OF HOURS WORKED BY EMPLOYEES	INCIDENT RATE
2019	136,923	5.84
2020	137,540	1.45
2021	131,283	0

If the Bidder's / Contractor's Incident Rate for any of the past three years is one point higher than the Incident Rate for the type of construction it performs (listed below), the Bidder / Contractor must attach, to this questionnaire, a written explanation for the relatively high rate.

General Building Construction	8.5
Residential Building Construction	7.0
Nonresidential Building Construction	10.2
Heavy Construction, except building	8.7
Highway and Street Construction	9.7
Heavy Construction, except highways	8.3
Plumbing, Heating, HVAC	11.3
Painting and Paper Hanging	6.9
Electrical Work	9.5
Masonry, Stonework and Plastering	10.5
Carpentry and Floor Work	12.2
Roofing, Siding, and Sheet Metal	10.3
Concrete Work	8.6
Specialty Trade Contracting	8.6

5. Safety Performance on Previous DDC Project(s)

☐ YES ☒ NO Fatality or an incident requiring OSHA notification within 24 hours (work-related in-patient hospitalization, amputation and all loss of an eye) on DDC Project(s) within the last three (3) years.

DDC Project Number(s): _____, _____, _____

The Bidder hereby affirms that all the information provided in this Safety Questionnaire and all additional pages and/or attachments, if applicable, consist of accurate representations.

Date: 3/18/22

By: 
(Signature of Bidder: Owner, Partner, Corporate Officer)

Title: President

CONSTRUCTION EMPLOYMENT REPORT

1. Your contractual relationship in this contract is: Prime contractor X Subcontractor _____
- 1a. Are M/WBE goals attached to this project? Yes X No _____
2. Please check one of the following if your firm would like information on how to certify with the City of New York as a:

<u> </u> Minority Owned Business Enterprise	<u> </u> Locally Based Business Enterprise
<u> </u> Women Owned Business Enterprise	<u> </u> Emerging Business Enterprise
<u> </u> Disadvantaged Business Enterprise	
- 2a. If you are certified as an **MBE, WBE, LBE, EBE** or **DBE**, what city/state agency are you certified with? _____ Are you DBE certified? Yes _____ No X
3. Please indicate if you would like assistance from SBS in identifying certified M/WBEs for contracting opportunities: Yes _____ No X
4. Is this project subject to a project labor agreement? Yes _____ No X
5. Are you a Union contractor? Yes X No _____ If yes, please list which local(s) you affiliated with 731, 1010, 1536, 282, 14, 15
6. Are you a Veteran owned company? Yes _____ No X

7.	11-3353007	adcconstruction@verizon.net
	Employer Identification Number or Federal Tax I.D.	Email Address
8.	ADC Construction, LLC	
	Company Name	
9.	58-08 48th Street Maspeth, NY 11378	
	Company Address and Zip Code	
10.	Domenick Cipollone	718 628-5555
	Chief Operating Officer	Telephone Number
11.	Paula Zissel	Same
	Designated Equal Opportunity Compliance Officer (If same as Item #10, write "same")	Telephone Number
12.	Same	
	Name of Prime Contractor and Contact Person (If same as Item #8, write "same")	

(a) Name and address of OFCCP office.

(b) Was a Certificate of Equal Employment Compliance issued within the past 36 months?

Yes___ No___

If yes, attach a copy of such certificate.

(c) Were any corrective actions required or agreed to? Yes___ No___

If yes, attach a copy of such requirements or agreements.

(d) Were any deficiencies found? Yes___ No___

If yes, attach a copy of such findings.

19. Is your company or its affiliates a member or members of an employers' trade association which is responsible for negotiating collective bargaining agreements (CBA) which affect construction site hiring? Yes X No___

If yes, attach a list of such associations and all applicable CBA's.

PART II: DOCUMENTS REQUIRED

20. For the following policies or practices, attach the relevant documents (e.g., printed booklets, brochures, manuals, memoranda, etc.). If the policy(ies) are unwritten, attach a full explanation of the practices. See instructions.

Yes (a) Health benefit coverage/description(s) for all management, nonunion and union employees (whether company or union administered)

Yes (b) Disability, life, other insurance coverage/description

No (c) Employee Policy/Handbook

No (d) Personnel Policy/Manual

No (e) Supervisor's Policy/Manual

Yes (f) Pension plan or 401k coverage/description for all management, nonunion and union employees, whether company or union administered

Yes (g) Collective bargaining agreement(s).

Yes (h) Employment Application(s)

No (i) Employee evaluation policy/form(s).

Yes (j) Does your firm have medical and/or non-medical (i.e. education, military, personal, pregnancy, child care) leave policy?

Yes (k) Sexual Harassment Policy

21. To comply with the Immigration Reform and Control Act of 1986 when and of whom does your firm require the completion of an I-9 Form?

- | | | |
|--|---|-----------------------------|
| (a) Prior to job offer | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| (b) After a conditional job offer | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (c) After a job offer | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (d) Within the first three days on the job | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (e) To some applicants | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (f) To all applicants | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| (g) To some employees | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (h) To all employees | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

22. Explain where and how completed I-9 Forms, with their supportive documentation, are maintained and made accessible.

23. Does your firm or any of its collective bargaining agreements require job applicants to take a medical examination? Yes ☐ No ☒

If yes, is the medical examination given:

- | | | |
|-----------------------------------|------------------------------|-----------------------------|
| (a) Prior to a job offer | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (b) After a conditional job offer | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (c) After a job offer | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (d) To all applicants | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (e) Only to some applicants | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

If yes, list for which applicants below and attach copies of all medical examination or questionnaire forms and instructions utilized for these examinations.

24. Do you have a written equal employment opportunity (EEO) policy? Yes ☒ No ☐

If yes, list the document(s) and page number(s) where these written policies are located.

25. Does the company have a current affirmative action plan(s) (AAP) Yes

- ☒ Minorities and Women
☒ Individuals with handicaps
☒ Other. Please specify _____

26. Does your firm or collective bargaining agreement(s) have an internal grievance procedure with respect to EEO complaints? Yes ☒ No ☐

If yes, please attach a copy of this policy.

If no, attach a report detailing your firm's unwritten procedure for handling EEO complaints.

27. Has any employee, within the past three years, filed a complaint pursuant to an internal grievance procedure or with any official of your firm with respect to equal employment opportunity? Yes___ No X

If yes, attach an internal complaint log. See instructions.

28. Has your firm, within the past three years, been named as a defendant (or respondent) in any administrative or judicial action where the complainant (plaintiff) alleged violation of any anti-discrimination or affirmative action laws? Yes___ No X

If yes, attach a log. See instructions.

29. Are there any jobs for which there are physical qualifications? Yes___ No X

If yes, list the job(s), submit a job description and state the reason(s) for the qualification(s).

30. Are there any jobs for which there are age, race, color, national origin, sex, creed, disability, marital status, sexual orientation, or citizenship qualifications? Yes___ No X

If yes, list the job(s), submit a job description and state the reason(s) for the qualification(s).

SIGNATURE PAGE

I, (print name of authorized official signing) Domenick Cipollone hereby certify that the information submitted herewith is true and complete to the best of my knowledge and belief and submitted with the understanding that compliance with New York City's equal employment requirements, as contained in Chapter 56 of the City Charter, Executive Order No. 50 (1980), as amended, and the implementing Rules and Regulations, is a contractual obligation. I also agree on behalf of the company to submit a certified copy of payroll records to the Division of Labor Services on a monthly basis.

ADC Construction, LLC

Contractor's Name

Joseph Aiello

Project Manager

Name of person who prepared this Employment Report

Domenick Cipollone

Title

President

Name of official authorized to sign on behalf of the contractor

718 628-5555

Title

Telephone Number



3/18/2022

Signature of authorized official

Date

If contractors are found to be underutilizing minorities and females in any given trade based on Chapter 56 Section 3H, the Division of Labor Services reserves the right to request the contractor's workforce data and to implement an employment program.

Contractors who fail to comply with the above mentioned requirements or are found to be in noncompliance may be subject to the withholding of final payment.

Willful or fraudulent falsifications of any data or information submitted herewith may result in the termination of the contract between the City and the bidder or contractor and in disapproval of future contracts for a period of up to five years. Further, such falsification may result in civil and/or criminal prosecution.

To the extent permitted by law and consistent with the proper discharge of DLS' responsibilities under Charter Chapter 56 of the City Charter and Executive Order No. 50 (1980) and the implementing Rules and Regulations, all information provided by a contractor to DLS shall be confidential.

Only original signatures accepted.

Sworn to before me this 18th day of March 2022



Notary Public

Authorized Signature

3/18/2022
Date

MELISSA GALLAGHER
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01GA6013314
Qualified in Queens County
Commission Expires 09-14-2022

FORM A. CONTRACT BID INFORMATION: USE OF SUBCONTRACTORS/TRADES

1. Do you plan to subcontractor work on this contract? Yes X No <\$750K
2. If yes, complete the chart below.

NOTE: All proposed subcontractors with a subcontract in excess of \$750,000 must complete an Employment Report for review and approval before the contract may be awarded and work commences.

SUBCONTRACTOR'S NAME*	OWNERSHIP (ENTER APPROPRIATE CODE LETTERS BELOW)	WORK TO BE PERFORMED BY SUBCONTRACTOR	TRADE PROJECTED FOR USE BY SUBCONTRACTOR	PROJECTED DOLLAR VALUE OF SUBCONTRACT

***If subcontractor is presently unknown, please enter the trade (craft name).**

OWNERSHIP CODES

- W: White
 B: Black
 H: Hispanic
 A: Asian
 N: Native American
 F: Female

FORM B: PROJECTED WORKFORCE

TRADE CLASSIFICATION CODES

(J) Journeylevel Workers
(H) Helper
(A) Apprentice
(TRN) Trainee
(TOT) Total by Column

For each trade to be engaged by your company for this project, enter the projected workforce for Males and Females by trade classification on the charts below.

Trade:

Operators, Chauffers

Union Affiliation, if applicable
14, 15, 282

Total (Col. #1-10):

6

Total Minority, Male & Female
(Col. #2,3,4,5,7,8,9, & 10):

1

Total Female
(Col. #6 – 10):

MALES

	(1) White Non Hisp.	(2) Black Non Hisp.	(3) Hisp.	(4) Asian	(5) Native Amer.
J	5			1	
H					
A					
TRN					
TOT			T		

FEMALES

	(6) White Non Hisp.	(7) Black Non Hisp.	(8) Hisp.	(9) Asian	(10) Native Amer.

What are the recruitment sources for you projected hires (i.e., unions, government employment office, job tap center, community outreach)?

FORM B: PROJECTED WORKFORCE

Trade: _____
Laborers, etc. _____

Union Affiliation, if applicable
1010, 1536, 731 _____

Total (Col. #1-10): _____
18 _____

Total Minority, Male & Female
(Col. #2,3,4,5,7,8,9, & 10): _____

Total Female
(Col. #6 – 10): _____

MALES					FEMALES				
(1) White Non Hisp.	(2) Black Non Hisp.	(3) Hisp.	(4) Asian	(5) Native Amer.	(6) White Non Hisp.	(7) Black Non Hisp.	(8) Hisp.	(9) Asian	(10) Native Amer.
J	8	3	6	1					
H									
A									
TRN									
TOT		T							

What are the recruitment sources for you projected hires (i.e., unions, government employment office, job tap center, community outreach)?

A. PROJECT REFERENCES - SIMILAR CONTRACTS COMPLETED BY THE BIDDER

List all contracts substantially completed within the last 4 years similar to the contract being awarded, up to a maximum of 10, in descending order of date of substantial completion.

Project & Location	Contract Type	Contract Amount (\$000)	Date Completed	Owner Reference & Tel. No.	Architect/Engineer Reference & Tel. No. if different from owner
SEK201BN8 Collapsed Sewers Brooklyn	Sewer	\$7,585	26-Nov-20	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same
SEQBN10 Collapsed Sewers Queens	Sewer	\$7,524	04-Aug-20	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	19-Jul-22
HWK100BUS Utica Ave SBS Brooklyn	Highway	\$14,856	02-Dec-19	NYC DDC Marie Brandao Deputy Director 7183912430	Same
SEQ201BN9 Collapsed Sewers Queens	Sewer	\$7,827	30-Aug-19	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same
SEK201BN6 Collapsed Sewers Brooklyn	Sewer	\$5,313	31-May-18	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same

A. PROJECT REFERENCES - SIMILAR CONTRACTS COMPLETED BY THE BIDDER

List all contracts substantially completed within the last 4 years similar to the contract being awarded, up to a maximum of 10, in descending order of date of substantial completion.

Project & Location	Contract Type	Contract Amount (\$000)	Date Completed	Owner Reference & Tel. No.	Architect/Engineer Reference & Tel. No. if different from owner
BEDA001 Accellerated Water Mains Brooklyn	Water	\$11,585	10/16/17	NYC DDC Marie Brandao Deputy Director 7183912430	Same
HWCSCH3G2 School Traffic Safety Bronx, Manhattan & Brooklyn	Highway	\$3,958	09/29/17	NYC DDC Robert Yueh, P.E. Borough Director (718) 391-1937	19-Jul-22
SEK201BN5 Collapsed Sewers Brooklyn	Sewer	\$5,385	12/31/16	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same
SEK002373 Catch Basins Various Locations Brooklyn	Sewer	\$849	03/07/16	NYC DDC Robert Yueh, P.E. Borough Director (718) 391-1937	Same
HWK-1129 Reconstruction of Nostrand Ave Brooklyn	Highway	\$23,509	10/30/15	NYC DDC Robert Yueh, P.E. Borough Director (718) 391-1937	Same

B. PROJECT REFERENCES - CONTRACTS CURRENTLY UNDER CONSTRUCTION BY THE BIDDER

List all contracts currently under construction even if they are not similar to the contract being awarded.

Project & Location	Contract Type	Contract Amount (\$000)	Subcontracted to others (\$000)	Uncompleted Portion (\$000)	Date Scheduled to Complete	Owner Reference & Tel. No.	Architect/Engineer Reference & Tel. No. if different from owner
BEDA003 Accellerated Water Mains Brooklyn	Water	\$25,213	\$1,170	\$2,400	21-Nov-22	NYC DDC Marie Brandao Deputy Director (718) 391-2430	Same
SEQBN11 Collapsed Sewers North Queens	Sewer	\$13,847	\$450	\$2,500	19-Jul-22	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same
SEKBN9 Collapsed Sewers Noerth Brooklyn	Sewer	\$10,832	\$450	\$2,500	26-Mar-22	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same
EC-SEQN22 Collapsed Sewers North Queens	Sewer	\$6,531	\$400	\$6,500	29-Nov-22	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same

C. PROJECT REFERENCES - PENDING CONTRACTS NOT YET STARTED BY BIDDER

List all contracts awarded to or won by the bidder but not yet started.

Project & Location	Contract Type	Contract Amount (\$000)	Date Scheduled to Start	Owner Reference & Tel. No.	Architect/Engineer Reference & Tel. No. if different from owner
EC-SEQN22 Collapsed Sewers North Queens	Sewer	\$7,372	Pending Award	NYC DEP Dan Lefkowitz, P.E. Deputy Chief Emergency Construction (718) 595-7657	Same

DBE SCHEDULE OF UTILIZATION

Contract No.	PIN	Project Sponsor	
	HWK797W	NYC DDC	
County(ies):	Kings		
<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Amendment	Contractor Name	
Contract Bid Amount:	\$5,485,060.34	ADC Construction, LLC	
Contract Goal %:	13%	Contractor Fed ID No.	
Contract Goal Amount:	\$713,057.84	11-33530007	
UTILIZATION INFORMATION			
DBE Name	Fed ID No.	Work Category	DBE Utilization
HHJr Construction, LTD		Subcontractor	\$475,000.00
RMI Road Markings, Inc.		Subcontractor	\$30,000.00
Zero Below Trucking Corporation		Subcontractor	\$230,000.00
		Total Commitments:	\$735,000.00
		Contract Goal:	\$713,057.84
		Difference:	\$21,942.16

TO BE COMPLETED BY PROJECT SPONSOR

The Bidder ____ has ____ has not demonstrated good faith efforts to secure DBE utilization in satisfaction of the contract goal as required by the contract specification.

Signature**Date**



**Department of
Design and
Construction**

**THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND
CONSTRUCTION**

DIVISION OF INFRASTRUCTURE

30-30 THOMSON AVENUE
LONG ISLAND CITY, NY, 11101
TEL: 718.391.1000
WEB: www.nyc.gov/ddc

TO BE FILLED IN BY THE BIDDER:

BIDDER'S NAME:

BID SECURITY (CIRCLE ONE):
BID BOND / CERTIFIED CHECK

NUMBER OF ADDENDUMS RECEIVED
AND ATTACHED TO BID:
_____ ADDENDUMS

DDC CLIENT AGENCY:
THE DEPARTMENT OF
TRANSPORTATION

PREPARED BY:
IN-HOUSE DESIGN

DATE PREPARED:
12/4/2019



VOLUME 2 OF 3

FOR FURNISHING ALL LABOR AND MATERIALS
NECESSARY AND REQUIRED FOR:

PROJECT ID: HWK797W

INFORMATION FOR BIDDERS

CONTRACT

PERFORMANCE AND PAYMENT BONDS

PREVAILING WAGE SCHEDULE

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY
AND REQUIRED FOR:

RECONSTRUCTION OF SCHENCK AVENUE

SCHENCK AVENUE FROM LIBERTY AVENUE TO
PITKIN AVENUE

SCHENCK FROM HEGEMAN AVENUE TO
COZINE AVENUE

BELMONT AVENUE FROM SCHENCK AVENUE
TO BARBEY STREET

INCLUDING SEWER, WATER MAIN, STREET LIGHTING,
AND TRAFFIC SIGNAL WORK

TOGETHER WITH ALL WORK INCIDENTAL THERETO

BOROUGH OF THE BROOKLYN

CITY OF NEW YORK

FHWA FUNDED – NYSDOT PIN: X772.78



**Department of
Design and
Construction**

**THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND
CONSTRUCTION
DIVISION OF INFRASTRUCTURE**

30-30 THOMSON AVENUE
LONG ISLAND CITY, NY, 11101
TEL: 718.391.1000
WEB: www.nyc.gov/ddc

TO BE FILLED IN BY THE BIDDER:

BIDDER'S NAME:

BID SECURITY (CIRCLE ONE):
BID BOND / CERTIFIED CHECK

NUMBER OF ADDENDUMS RECEIVED
AND ATTACHED TO BID:
_____ ADDENDUMS

DDC CLIENT AGENCY:
**THE DEPARTMENT OF
TRANSPORTATION**

PREPARED BY:

IN HOUSE

DATE PREPARED:

3/15/2017

VOLUME 2 OF 3

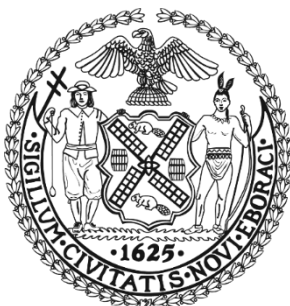
FOR FURNISHING ALL LABOR AND MATERIALS
NECESSARY AND REQUIRED FOR:

INFORMATION FOR BIDDERS

CONTRACT

PERFORMANCE AND PAYMENT BONDS

PREVAILING WAGE SCHEDULE



NOTICE TO BIDDERS

Please be advised that a Rider to the March 2017 New York City Standard Construction Contract regarding Non-Compensable Delays and Grounds for Extension has been attached and incorporated in this Invitation for Bid. Other than provisions specifically delineated in the Rider, all other terms of the March 2017 New York City Standard Construction Contract continue to apply in full force and effect.

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CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
INFORMATION FOR BIDDERS
December 2021

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CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
INFORMATION FOR BIDDERS

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1. Description and Location of Work

The description and location of the work for which bids are requested are specified in the PASSPort RFx field "Description".

2. Time and Place for Receipt of Bids

Sealed bids shall be received on or before the date and hour specified in the PASSPort RFx, at which time they will be publicly opened and read aloud in the presence of the Commissioner or the Commissioner's or her representative, and any bidders who may desire to be present.

3. Definitions

The definitions set forth in the Procurement Policy Board Rules shall apply to this Invitation For Bids.

4. Invitation For Bids and Contract Documents

- (A) Except for titles, sub-titles, headings, running headlines, tables of contents and indices (all of which are printed herein merely for convenience) the following, except for such portions thereof as may be specifically excluded, shall be deemed to be part of the Contract and the Invitation for Bids.
 - (1) All provisions required by law to be inserted in this Contract, whether actually inserted or not
 - (2) The Contract Drawings and Specifications
 - (3) The General Conditions, the General Requirements and the Special Conditions, if any
 - (4) The Contract
 - (5) The Information for Bidders; Request for Proposals; Notice of Solicitation and Proposal For Bids; Bid or Proposal, and the Bid Booklet
 - (6) The Budget Director's Certificate; all Addenda issued prior to the receipt of the bids; the Notice of Award; Performance and Payment Bonds, if required; and the Notice to Proceed with the Work.
- (B) For particulars as to this procurement, including quantity and quality of the purchase, extent of the work or labor to be performed, delivery and performance schedule, and any other special instructions, prospective bidders are referred to the Invitation For Bids Documents. A copy of such documents can be obtained in the PASSPort RFx.

5. Pre-Bid Conference

A pre-bid conference shall be held as set forth in the PASSPort RFx. Nothing stated at the pre-bid conference shall change the terms or conditions of the Invitation For Bids Documents, unless a change is made by written amendment as provided in Section 9 below. Failure to attend a mandatory pre-bid conference shall constitute grounds for the rejection of the bid.

6. Agency Contact

Any questions or correspondence relating to this bid solicitation shall be addressed to the Agency Contact person specified in the PASSPort RFx.

7. Bidder's Oath

- (A) The bid shall be properly signed by an authorized representative of the bidder and the bid shall be verified by the written oath of the authorized representative who signed the bid, that the several matters stated and information furnished therein are in all aspects true.
- (B) A materially false statement willfully or fraudulently made in connection with the bid or any of the forms completed and submitted with the bid may result in the termination of any Contract between the City and the Bidder. As a result, the Bidder may be barred from participating in future City contracts as well as be subject to possible criminal prosecution.

8. Examination and Viewing of Site, Consideration of Other Sources of Information and Changed Conditions

- (A) Pre-Bidding (Investigation) Viewing of Site - Bidders must carefully view and examine the site of the proposed work, as well as its adjacent area, and seek other usual sources of information, for they will be conclusively presumed to have full knowledge of any and all conditions on, about or above the site relating to or affecting in any way the performance of the work to be done under the Contract which were or should have been indicated to a reasonably prudent bidder. To arrange a date for visiting the work site, bidders are to contact the Agency Contact person specified in The PASSPort RFx.
- (B) Should the contractor encounter during the progress of the work subsurface conditions at the site materially differing from any shown on the Contract Drawings or indicated in the Specifications or such subsurface conditions as could not reasonably have been anticipated by the contractor and were not anticipated by the City, which conditions will materially affect the cost of the work to be done under the Contract, the attention of the Commissioner must be called immediately to such conditions before they are disturbed. The Commissioner shall thereupon promptly investigate the conditions. If the Commissioner finds that they do so materially differ, or that they could not reasonably have been anticipated by the contractor and were not anticipated by the City, the Contract may be modified with the Commissioner's written approval.

9. Examination of Proposed Contract

- (A) Request for Interpretation or Correction: Prospective bidders must examine the Contract Documents carefully and before bidding must request the Commissioner in writing for an interpretation or correction of every patent ambiguity, inconsistency or error therein which should have been discovered by a reasonably prudent bidder. Such interpretation or correction, as well as any additional contract provisions the Commissioner may decide to include, will be issued in writing by the Commissioner as an addendum to the Contract, which will be transmitted to each person recorded as having received a copy of the Contract Documents from the Department. Transmission of such addendum will be by mail, e-mail, facsimile or hand delivery. Such addendum will also be posted at the place where the Contract Documents are available for the inspection of prospective bidders. Upon transmission as provided for herein, such addendum shall become a part of the Contract Documents, and binding on all bidders, whether or not actual notice of such addendum is shown.
- (B) Only Commissioner's Interpretation or Correction Binding: Only the written interpretation or correction so given by the Commissioner shall be binding, and prospective bidders are warned that no other officer, agent or employee of the City is authorized to give information concerning, or to explain or interpret, the Contract.
- (C) Documents given to a subcontractor for the purpose of soliciting the subcontractor's bid shall include either a copy of the bid cover sheet or a separate information sheet setting forth the project name, the Contract number (if available), the contracting agency and the Project's location.

10. Form of Bid

Each bid must be submitted upon the prescribed form and must contain: a) the name, residence and place of business of the person or persons making the same; b) the names of all persons interested therein, and if no other person is so interested, such fact must be distinctly stated; c) a statement to the effect that it is made without any connection with any other person making a bid for the same purpose and that it is in all respects fair and without collusion or fraud; d) a statement that no Council member or other officer or employee or person whose salary is payable in whole or part from the City Treasury is directly or indirectly interested therein or in the supplies, materials or equipment and work or labor to which it relates, or in any portion of the profits thereof; e) a statement that the bidder is not in arrears to the City or to any agency upon a debt or contract or taxes, and is not a defaulter as surety or otherwise upon any obligation to the City to any agency thereof, except as set forth in the bid.

THE BID SHALL BE TYPEWRITTEN OR WRITTEN LEGIBLY IN INK. THE BID SHALL BE SIGNED IN INK. ERASURES OR ALTERATIONS SHALL BE INITIALED BY THE SIGNER IN INK. FAILURE TO CONFORM TO THE REQUIREMENTS OF THIS SECTION 10 SHALL RESULT IN THE REJECTION OF THE BID.

11. Irrevocability of Bid

The prices set forth in the bid cannot be revoked and shall be effective until the award of the Contract, unless the bid is withdrawn as provided for in Sections 15 and 18 below.

12. Acknowledgment of Amendments

The receipt of any amendment to the Contract Documents shall be acknowledged by the bidder in its bid submission.

13. Bid Samples and Descriptive Literature

Bid samples and descriptive literature shall not be submitted by the bidder, unless expressly requested elsewhere in the Contract or Contract Documents. Any unsolicited bid samples or descriptive literature which are submitted shall not be examined or tested and shall not be deemed to vary any of the provisions of this Contract.

14. Proprietary Information/Trade Secrets

- (A) The bidder shall identify those portions of the bid which it deems to be confidential, proprietary information or trade secrets, and provide justification why such materials shall not be disclosed by the City. All such materials shall be clearly indicated by stamping the pages on which such information appears, at the top and bottom thereof with the word "Confidential". Such materials stamped "Confidential" must be easily separable from the non-confidential sections of the bid.
- (B) All such materials so indicated shall be reviewed by the Agency and any decision not to honor a request for confidentiality shall be communicated in writing to the bidder. For those bids which are unsuccessful, all such confidential materials shall be returned to the bidder. Prices, makes and model or catalog numbers of the items offered, deliveries, and terms of payment shall be publicly available after bid opening, regardless of any designation of confidentiality made by the bidder.

15. Pre-Opening Modification or Withdrawal of Bids

Bids may be modified or withdrawn by written notice received in the office designated in the PASSPort RFx, before the time and date set for the bid opening. If a bid is withdrawn in accordance with this Section, the bid security, if any, shall be returned to the bidder.

16. Bid Evaluation and Award

In accordance with the New York City Charter, the Procurement Policy Board Rules and the terms and conditions of this Invitation For Bids, this Contract shall be awarded, if at all, to the responsible bidder whose bid meets the requirements and evaluation criteria set forth in the Invitation For Bids, and whose bid price is either the most favorable bid price or, if the Invitation For Bids so states, the most favorable evaluated bid price. A bid may not be evaluated for any requirement or criterion that is not disclosed in the Invitation For Bids.

Restriction: No negotiations with any bidder shall be allowed to take place except under the circumstances and in the manner set forth in Section 21. Nothing in this Section shall be deemed to permit a contract award to a bidder submitting a higher quality item than that designated in the Invitation For Bids, if that bid is not also the most favorable bid.

17. Late Bids, Late Withdrawals and Late Modifications

Any bid received at the place designated in the solicitation after the time and date set for receipt of bids is late and shall not be considered. Any request for withdrawal or modification received at the place designated in the solicitation after the time and date set for receipt of bids is late and shall not be considered. The exception to this provision is that a late modification of a successful bid that makes the bid terms more favorable to the City shall be considered at any time it is received.

18. Withdrawal of Bids.

Except as provided for in Section 15, above, a bidder may not withdraw its bid before the expiration of forty-five (45) days after the date of the opening of bids; thereafter, a bidder may withdraw its bid only in writing and in advance of an actual award. If within sixty (60) days after the execution of the Contract, the Commissioner fails to fix the date

for commencement of work by written notice to the bidder, the bidder at the bidder's option, may ask to be relieved of the bidder's obligation to perform the work called for by written notice to the Commissioner. If such notice is given to the Commissioner, and the request to withdraw is granted, the bidder waives all claims in connection with this Contract.

19. Mistake in Bids

- (A) Mistake Discovered Before Bid Opening: A bidder may correct mistakes discovered before the time and date set for bid opening by withdrawing or correcting the bid as provided in Section 15 above.
- (B) Mistakes Discovered Before Award
 - (1) In accordance with General Municipal Law (Section 103, subdivision 11), where a unilateral error or mistake is discovered in a bid, such bid may be withdrawn upon written approval of the Agency Chief Contracting Officer if the following conditions are met:
 - (a) The mistake is known or made known to the agency prior to the awarding of the Contract or within 3 days after the opening of the bid, whichever period is shorter; and
 - (b) The price bid was based upon an error of such magnitude that enforcement would be unconscionable; and
 - (c) The bid was submitted in good faith and the bidder submits credible evidence that the mistake was a clerical error as opposed to a judgment error; and
 - (d) The error in the bid is actually due to an unintentional and substantial arithmetic error or an unintentional omission of a substantial quantity of work, labor, material or services made directly in the compilation of the bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of the original work paper, documents, or materials used in the preparation of the bid sought to be withdrawn; and
 - (e) It is possible to place the agency in the same position as existed prior to the bid.
 - (2) Unless otherwise required by law, the sole remedy for a bid mistake in accordance with this Article shall be withdrawal of the bid, and the return of the bid bond or other security, if any, to the bidder. Thereafter, the agency may, in its discretion, award the Contract to the next lowest bidder or rebid the Contract. Any amendment to or reformation of a bid or a Contract to rectify such an error or mistake therein is strictly prohibited.
 - (3) If the mistake and the intended correct bid are clearly evident on the face of the bid document, the bid shall be corrected to the intended correct bid and may not be withdrawn. Examples of mistakes that may be corrected are typographical errors, errors in extending unit prices, transposition errors and arithmetical errors.

20. Low Tie Bids

- (A) When two or more low responsive bids from responsible bidders are identical in price, meeting all the requirements and criteria set forth in the Invitation For Bids, the Agency Chief Contracting Officer will break the tie in the following manner and order of priority:
 - (1) Award to a certified New York City small, minority or woman-owned business entity bidder;
 - (2) Award to a New York City bidder;
 - (3) Award to a certified New York State small, minority or woman-owned business bidder;
 - (4) Award to a New York State bidder.
- (B) If two or more bidders still remain equally eligible after application of paragraph (A) above, award shall be made by a drawing by lot limited to those bidders. The bidders involved shall be invited to attend the drawing. A witness shall be present to verify the drawing and shall certify the results on the bid tabulation sheet.

21. Rejection of Bids

(A) Rejection of Individual Bids: The Agency may reject a bid if:

- (1) The bidder fails to furnish any of the information required pursuant to Section 24 or 28 hereof; or if
- (2) The bidder is determined to be not responsible pursuant to the Procurement Policy Board Rules; or if
- (3) The bid is determined to be non-responsive pursuant to the Procurement Policy Board Rules; or if
- (4) The bid, in the opinion of the Agency Chief Contracting Officer, contains unbalanced bid prices and is thus non-responsive, unless the bidder can show that the prices are not unbalanced for the probable required quantity of items, or if the imbalance is corrected pursuant to Section 15.

(B) Rejection of All Bids: The Agency, upon written approval by the Agency Chief Contracting Officer, may reject all bids and may elect to resolicit bids if in its sole opinion it shall deem it in the best interest of the City so to do.

(C) Rejection of All Bids and Negotiation With All Responsible Bidders: The Agency Head may determine that it is appropriate to cancel the Invitation For Bids after bid opening and before award and to complete the acquisition by negotiation. This determination shall be based on one of the following reasons:

- (1) All otherwise acceptable bids received are at unreasonable prices, or only one bid is received and the Agency Chief Contracting Officer cannot determine the reasonableness of the bid price, or no responsive bid has been received from a responsible bidder; or
- (2) In the judgment of the Agency Chief Contracting Officer, the bids were not independently arrived at in open competition, were collusive, or were submitted in bad faith.

(B) When the Agency has determined that the Invitation for Bids is to be canceled and that use of negotiation is appropriate to complete the acquisition, the contracting officer may negotiate and award the Contract without issuing a new solicitation, subject to the following conditions:

- (1) prior notice of the intention to negotiate and a reasonable opportunity to negotiate have been given by the contracting officer to each responsible bidder that submitted a bid in response to the Invitation for Bids;
- (2) the negotiated price is the lowest negotiated price offered by a responsible bidder; and
- (3) the negotiated price is lower than the lowest rejected bid price of a responsible bidder that submitted a bid in response to the Invitation for Bids.

22. Right to Appeal Determinations of Non-Responsiveness or Non-Responsibility and Right to Protest Solicitations and Award

The bidder has the right to appeal a determination of non-responsiveness or non-responsibility and has the right to protest a solicitation and award. For further information concerning these rights, the bidder is directed to the Procurement Policy Board Rules.

23. Affirmative Action and Equal Employment Opportunity

This Invitation For Bids is subject to applicable provisions of Federal, State and Local Laws and executive orders requiring affirmative action and equal employment opportunity.

24. PASSPort COMPLIANCE

All vendors that intend to do business with the City of New York must complete a disclosure process in order to be considered for a contract. This disclosure process was formerly completed using Vendor Information Exchange System (VENDEX) paper-based forms. The City of New York has moved collection of vendor disclosure information online. In early August 2017, the New York City Mayor's Office of Contract Services (MOCS) launched the Procurement and Sourcing Solutions Portal (PASSPort), a new online procurement system that replaced the paper-VENDEX process. In anticipation of awards, all bidders must create online accounts in the new PASSPort system, and

file all disclosure information using PASSPort. Paper submissions, including certifications of no changes to existing VENDEX packages, will not be accepted in lieu of complete online filings using PASSPort.

All vendors that intend to do business with the City, but specifically those that fall into any of the following categories, are required to enroll:

- Have a pending award with a City Agency; or
- Hold a current contract with a City Agency and have either an expiring VENDEX or expiring Certificate of No Change.

The Department of Design and Construction (DDC) and MOCS hereby notifies all proposers that the PASSPort system is available, and that disclosure filing completion is required prior to any award through this competitive bid.

To enroll in PASSPort and to access the PASSPort website (including online training), please visit www.nyc.gov/passport. Contact MOCS at passport@mocs.nyc.gov for additional information and technical support.

25. Complaints About the Bid Process

The New York City Comptroller is charged with the audit of contracts in New York City. Any vendor who believes that there has been unfairness, favoritism or impropriety in the bid process should inform the Comptroller, Office of Contract Administration, One Centre Street, Room 835, New York, New York; telephone number (212)669-2323.

26. Bid, Performance and Payment Security

- (A) Bid Security: Each bid must be accompanied by bid security in an amount and type specified in the PASSPort RFx questionnaire. The bid security shall assure the City of New York of the adherence of the bidder to its proposal, the execution of the Contract, and the furnishing of Performance and Payment Bonds by the bidder, if required in the PASSPort RFx. Bid security shall be returned to the bidder as follows:
- (1) Within ten (10) days after the bid opening, the Comptroller will be notified to return the deposits of all but the three (3) lowest bidders. Within five (5) days after the award, the Comptroller will be notified to return the deposits of the remaining two unsuccessful bidders.
 - (2) Within five (5) days after the execution of the Contract and acceptance of the Contractor's bonds, the Comptroller will be notified to return the bid security of the successful bidder or, if performance and payment bonds are not required, only after the sum retained under Article 21 of the Contract equals the amount of the bid security.
 - (3) Where all bids are rejected, the Comptroller will be notified to return the deposit of the three (3) lowest bidders at the time of rejection.
- (B) Performance and Payment Security: Performance and Payment Security must be provided in an amount and type specified in the PASSPort RFx. The performance and payment security shall be delivered by the contractor prior to or at the time of execution of the Contract. If a contractor fails to deliver the required performance and payment security, its bid security shall be enforced, and an award of Contract may be made to the next lowest responsible and responsive bidder, or the contract may be rebid.
- (C) Acceptable Types of Security: Acceptable types of security for bids, performance, and payment shall be limited to the following:
- (1) a one-time bond in a form satisfactory to the City;
 - (2) a bank certified check or money order;
 - (3) obligations of the City of New York; or
 - (4) other financial instruments as determined by the Office of Construction in consultation with the Comptroller.

Whenever the successful bidder deposits obligations of the City of New York as performance and payment security, the Comptroller may sell and use the proceeds thereof for any purpose for which the principal or

surety on such bond would be liable under the terms of the Contract. If the money is deposited with the Comptroller, the successful bidder shall not be entitled to receive interest on such money from the City.

- (D) Form of Bonds: Security provided in the form of bonds must be prepared on the form of bonds authorized by the City of New York. Forms for bid, performance, and payment bonds are included in the Invitation for Bids Documents. Such bonds must have as surety thereunder such surety company or companies as are: (1) approved by the City of New York; (2) authorized to do business in the State of New York, and (3) approved by the Department of the Treasury of the United States. Premiums for any required bonds must be included in the base bid.

The bidder is advised that submission of a bid bond where the surety on such bond fails to meet the criteria set forth herein, shall result in the rejection of the bid as non-responsive.

The Department of the Treasury of the United States advises that information concerning approved surety companies may be obtained as follows: (1) from the Government Printing Office at 215-364-6465; (2) through the Internet at <https://www.fiscal.treasury.gov/surety-bonds/>.

- (E) Power of Attorney: Attorneys in fact who sign bid, performance, or payment bonds must file with each bond a certified copy of their power of attorney to sign said bonds.

27. Failure to Execute Contract

In the event of failure of the successful bidder to execute the Contract and furnish the required security within ten (10) days after notice of the award of the Contract, the deposit of the successful bidder or so much thereof as shall be applicable to the amount of the award made shall be retained by the City, and the successful bidder shall be liable for and hereby agrees to pay on demand the difference between the price bid and the price for which such Contract shall be subsequently awarded, including the cost of any required reletting and less the amount of such deposit. No plea of mistake in such accepted bid shall be available to the bidder for the recovery of the deposit or as a defense to any action based upon such accepted bid. Further, should the bidder's failure to comply with this Section cause any funding agency, body or group (Federal, State, City, Public, Private, etc.) to terminate, cancel or reduce the funding on this project, the bidder in such event shall be liable also to the City for the amount of actual funding withdrawn by such agency on this project, less the amount of the forfeited deposit.

28. Bidder Responsibilities and Qualifications

- (A) Bidders must include with their bids all information necessary for a determination of bidder responsibility, as set forth in the Specifications.
- (B) The Agency may require any bidder or prospective bidder to furnish all books of account, records, vouchers, statements or other information concerning the bidder's financial status for examination as may be required by the Agency to ascertain the bidder's responsibility and capability to perform the Contract. If required, a bidder must also submit a sworn statement setting forth such information as the Agency may require concerning present and proposed plant and equipment, the personnel and qualifications of the bidder's working organizations, prior experience and performance record.
- (C) Oral Examination on Qualifications: In addition thereto, and when directed by the Agency, the bidder, or a responsible officer, agent or employee of the bidder, must submit to an oral examination to be conducted by the Agency in relation to the bidder's proposed tentative plan and schedule of operations, and such other matters as the Agency may deem necessary in order to determine the bidder's ability and responsibility to perform the work in accordance with the Contract. Each person so examined must sign and verify a stenographic transcript of such examination noting thereon such corrections as such person may desire to make.
- (D) If the bidder fails or refuses to supply any of the documents or information set forth in paragraph (B) hereof or fails to comply with any of the requirements thereof, the Agency may reject the bid.

29. Employment Report

In accordance with Executive Order No. 50 (1980) as modified by Executive Order 108 (1986), the filing of a

completed Employment Report (ER) is a requirement of doing business with the City of New York for construction contractors with contracts of \$1,000,000 or more and subcontractors with construction subcontracts of \$750,000 or more. The required forms and information are included in the PASSPort Vendor Profile.

30. Labor Law Requirements

- (A) General: The successful bidder will be required to comply strictly with all Federal, State and local labor laws and regulations.
- (B) New York State Labor Law: This Contract is subject to New York State Labor Law Section 220, which requires that construction workers on the site be paid prevailing wages and supplements. The Contractor is reminded that all wage provisions of this Contract will be enforced strictly and failure to comply will be considered when evaluating performance. Noncompliance may result in the contractor being debarred by the City from future contracts. Complaints filed with the Comptroller may result in decisions which may debar a contractor from bidding contracts with any state governmental entity and other political subdivisions.
- (C) Records: The Contractor is expected to submit accurate payroll reports and other required documents and verify attendance and job classifications being utilized in compliance with the law, Contract provisions and agency procedures.

31. Insurance

- (A) Bidders are advised that the insurance requirements contained herein are regarded as material terms of the Contract. As required by Article 22 of the Contract, the contractor must effect and maintain with companies licensed and authorized to do business in the State of New York, the types of insurance set forth therein, when required by and in the amounts set forth in Schedule A of the General Conditions. Such required insurance must be provided from the date the contractor is ordered to commence work and up to the date of final acceptance of all required work.
- (B) The contractor must, within ten days of receipt of the notice of award, submit the following insurance documentation: (a) original certificate of insurance for general liability in the amount required by Schedule A of the General Conditions, and (b) original certificates of insurance or other proof of coverage for workers' compensation and disability benefits, as required by Section 57 of the New York State Workers' Compensation Law and Section 220 of the Disability Benefits Law.

32. Lump Sum Contracts

- (A) Comparison of Bids: Bids on Lump Sum Contracts will be compared on the basis of the lump sum price bid, adjusted for alternate prices bid, if any.
- (B) Lump Sum Bids for "General Construction Work" which include excavation shall include all necessary excavation work defined in the Specifications as being included in the lump sum bid. The bidder shall also bid a unit price for the additional cost of excavating material which is defined in the Specifications as excavation for which additional payment will be made. The total estimated additional cost of removing such material will be taken as the quantity set forth in the Engineer's Estimate multiplied by the unit price bid. This total estimated cost of additional excavation shall be added to the lump sum bid for the General Construction Work for the purpose of comparing bids to determine the low bidder.
- (C) Variations from Engineer's Estimate: The Engineer's Estimate of the quantity of excavation for which additional payment will be made is approximate only and is given solely to be used as a uniform basis for the comparison of bids and such estimate is not to be considered as part of this contract. The quantities actually required to complete the contract work may be more or less than the quantities in the Engineer's Estimate and, if so, no action for damages or for loss of profits shall accrue to the contractor by reason thereof.

33. Unit Price Contracts

- (A) Comparison of Bids: Bids on Unit Price Contracts will be compared on the basis of a total estimated price,

arrived at by taking the sum of the estimated quantities of such items, in accordance with the Engineer's Estimate of Quantities set forth in the Bid Schedule, multiplied by the corresponding unit prices, and including any lump sum bids on individual items.

- (B) Variations from Engineer's Estimate: Bidders are warned that the Engineer's Estimate of Quantities on the various items of work and materials is approximate only, given solely to be used as a uniform basis for the comparison of bids, and is not be considered part of this contract. The quantities actually required to complete the contract work may be less or more than so estimated, and if so, no action for damages or for loss of profits shall accrue to the contractor by reason thereof.
- (C) Overruns: The terms and conditions applicable to overruns of unit price items are set forth in Article 26 of the Contract.

34. Excise Tax

Bidders are referred to the Specifications for information on Federal Excise Tax exemptions.

35. Licenses and Permits

The successful bidder will be required to obtain all necessary licenses and permits necessary to perform the work.

36. Multiple Prime Contractors

If more than one prime contractor will be involved on this project, all contractors are required to examine the Invitation for Bid packages for all other parts of the project.

37. Locally Based Enterprise Requirements (LBE)

This Contract is subject to the requirements of Administrative Code, Section 6-108.1, and the regulations promulgated thereunder. No construction contract will be awarded unless and until these requirements have been complied with in their entirety. The bidder is advised of the provisions set forth below, as well as the provisions with respect to the Locally Based Enterprise Program contained in Article 67 of the Contract. The contractor is advised that:

- (A) If any portion of the Contract is subcontracted, not less than ten percent of the total dollar amount of the contract shall be awarded to locally based enterprises ("LBEs"); except, where less than ten percent of the total dollar amount of the Contract is subcontracted, such lesser percentage shall be so awarded.
- (B) No contractor shall require performance and payment bonds from LBE subcontractors.
- (C) No Contract shall be awarded unless the contractor first identifies in its bid:
 - (1) the percentage, dollar amount and type of work to be subcontracted; and
 - (2) the percentage, dollar amount and type of work to be subcontracted to LBEs.
- (D) Within ten calendar days after notification of low bid, the apparent low bidder shall submit an "LBE Participation Schedule" to the contracting agency. If such schedule does not identify sufficient LBE subcontractors to meet the requirements of Administrative Code Section 6-108.1, the apparent low bidder shall submit documentation of its good faith efforts to meet such requirements.
 - (1) The "LBE Participation Schedule" shall include:
 - (a) the name and address of each LBE that will be given a subcontract,
 - (b) the percentage, dollar amount and type of work to be subcontracted to the LBE, and
 - (c) the dates when the LBE subcontract work will commence and end.
 - (2) The following documents shall be attached to the "LBE Participation Schedule":
 - (a) verification letters from each subcontractor listed in the "LBE Participation Schedule" stating that the LBE will enter into a formal agreement for work,

- (b) certification documents of any proposed LBE subcontractor which is not on the LBE certified list, and
 - (c) copies of the certification letter of any proposed subcontractor which is an LBE.
- (3) Documentation of good faith efforts to achieve the required LBE percentage shall include as appropriate but not limited to the following:
 - (a) attendance at prebid meetings, when scheduled by the agency, to advise bidders of contract requirements;
 - (b) advertisement where appropriate in general circulation media, trade association publications and small business media of the specific subcontracts that would be at least equal to the percentage goal for LBE utilization specified by the contractor;
 - (c) written notification to association of small, minority and women contractors soliciting specific subcontractors;
 - (d) written notification by certified mail to LBE firms that their interest in the contract is solicited for specific work items and their estimated values;
 - (e) demonstration of efforts made to select portions of the work for performance by LBE firms in order to increase the likelihood of achieving the stated goal;
 - (f) documented efforts to negotiate with LBE firms for specific subcontracts, including at a minimum:
 - (i) The names, address and telephone numbers of LBE firms that are contacted;
 - (ii) A description of the information provided to LBE firms regarding the plans and specifications for portions of the work to be performed;
 - (iii) Documentation showing that no reasonable price can be obtained from LBE firms;
 - (iv) A statement of why agreements with LBE firms were not reached;
 - (g) a statement of the reason for rejecting any LBE firm which the contractor deemed to be unqualified; and
 - (h) documentation of efforts made to assist the LBE firms contacted that needed assistance in obtaining required insurance.
- (E) Unless otherwise waived by the Commissioner with the approval of the Office of Economic and Financial Opportunity, failure of a proposed contractor to provide the information required by paragraphs (C) and (D) above may render the bid non-responsive and the Contract may not be awarded to the bidder. If the contractor states that it will subcontract a specific portion of the work, but can demonstrate despite good faith efforts it cannot achieve its required LBE percentage for subcontracted work until after award of Contract, the Contract may be awarded, subject to a letter of compliance from the contractor stating that it will comply with Administrative Code Section 6-108.1 and subject to approval by the Commissioner. If the contractor has not met its required LBE percentage prior to award, the contractor shall demonstrate that a good faith effort has been made subsequent to award to obtain LBEs on each subcontract until it meets the required percentage.
- (F) When a bidder indicates prior to award that no work will be subcontracted, no work may be subcontracted without the prior written approval of the Commissioner, which shall be granted only if the contractor in good faith seeks LBE subcontractors at least six weeks prior to the start of work.
- (G) The contractor may not substitute or change any LBE which was identified prior to award of the contract without the written permission of the Commissioner. The contractor shall make a written application to the Commissioner for permission to make such substitution or change, explaining why the contractor needs to change its LBE subcontractor and how the contractor will meet its LBE subcontracting requirement. Copies of such application must be served on the originally identified LBE by certified mail return receipt requested,

as well as the proposed substitute LBE. The Commissioner shall determine whether or not to grant the contractor's request for substitution.

38. Bid Submission Requirements

The Bid Submission Requirements are set forth in the PASSPort RFx.

39. Comptroller's Certificate

This Contract shall not be binding or of any force unless it is registered by the Comptroller in accordance with Section 328 of the City Charter and the Procurement Policy Board Rules. This Contract shall continue in force only after annual appropriation of funds by the City of New York and certification as hereinabove set forth.

40. Procurement Policy Board Rules

This Invitation For Bids is subject to the Rules of the Procurement Policy Board of the City of New York. In the event of a conflict between said Rules and a provision of this Invitation For Bids, the Rules shall take precedence.

41. DDC Safety Requirements

The DDC Safety Requirements apply to the work to be performed pursuant to the Contract. The DDC Safety Requirements are set forth on the following pages.

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CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
SAFETY REQUIREMENTS FOR CONSTRUCTION
CONTRACTS

January 2020

THE DDC SAFETY REQUIREMENTS FOR CONSTRUCTION CONTRACTS INCLUDE THE FOLLOWING SECTIONS:

- I. POLICY ON SITE SAFETY**
- II. PURPOSE**
- III. DEFINITIONS**
- IV. RESPONSIBILITIES**
- V. SAFETY QUESTIONNAIRE**
- VI. SITE SAFETY PLAN**
- VII. KICK-OFF/PRE-CONSTRUCTION MEETINGS AND SAFETY REVIEW**
- VIII. EVALUATION DURING WORK IN PROGRESS**
- IX. SAFETY PERFORMANCE EVALUATION**

I. POLICY ON SITE SAFETY

The City of New York Department of Design and Construction (DDC) is committed to a policy of injury and illness prevention and risk management for construction work that will ensure the safety and health of the workers engaged in the projects and the protection of the general public. Therefore, it is DDC's policy that work carried out by Contractors on DDC contracts must, at a minimum, comply with the most current versions of all applicable federal, state and city laws, rules, and regulations, including without limitation:

- ❑ Code of Federal Regulations, Title 29, Part 1926 (29 CFR 1926) and applicable Sub-parts of Part 1910 – U.S. Occupational Safety and Health Administration (OSHA);
- ❑ Federal Highway Administration – Manual on Uniform Traffic Control Devices (MUTCD);
- ❑ New York Codes, Rules and Regulations (NYCRR), Title 12, Part 23 – Protection in Construction, Demolition and Excavation Operations;
- ❑ New York Codes, Rules and Regulations (NYCRR), Title 16, Part 753 – Protection of Underground Facilities;
- ❑ New York City Administrative Code, Title 28 – New York City Construction Codes;
- ❑ Rules of the City of New York, Title 15, Chapter 13 – Rules Pertaining To the Prevention of the Emission of Dust from Construction Related Activities;
- ❑ Rules of the City of New York, Title 15, Chapter 28 – Citywide Construction Noise Mitigation;
- ❑ Rules of the City of New York, Title 34 Chapter 2 – NYCDOT Highway Rules.

The Contractor will be required to comply with all new and/or revised federal, state and city laws, rules, and regulations, issued during the course of the project, at the expense of the Contractor without any additional costs to the DDC.

II. PURPOSE

The purpose of this policy is to ensure that Contractors perform their work and supervise their employees in accordance with all applicable federal, state and city rules and regulations. Further, Contractors will be expected to minimize or eliminate jobsite and public hazards, through a planning, inspection, auditing and corrective action process. The goal is to control risks so that injuries, illnesses, and accidents to contractors' employees, DDC employees and the general public, as well as damage to city-owned and private property, are reduced to the lowest level feasible.

III. DEFINITIONS

Agency Chief Contracting Officer (ACCO): The ACCO will mean the person delegated authority by the Commissioner to organize and supervise the procurement activity of subordinate Agency staff in conjunction with the City Chief Procurement Officer (CCPO).

Competent Person: As defined by OSHA, an individual who is capable of identifying existing and predictable hazards in the surroundings or working conditions that are unsanitary, hazardous, or dangerous to employees or the general public, and who has authorization to take prompt corrective measures to eliminate them. This individual will have completed, at a minimum an authorized 30-hour OSHA Construction Safety Course. The Contractor may be required to provide more than one competent person due to construction operations and based on the number of active work sites.

Construction Safety Auditor: A representative of the Office of Construction Safety who provides inspection and assessment services to enhance health and safety on all DDC construction projects. The activities of the Construction Safety Auditor include performing site audits, reviewing safety plans, reviewing construction permits, drawings, verifying Contractor's compliance with applicable federal, state and city laws, rules, regulations, and DDC Contract Safety Requirements, etc. and rendering technical advice and assistance to DDC Resident Engineers and Project Managers.

Office of Construction Safety: A unit of DDC Safety and Site Support that assesses contractor's safety on DDC jobsites and advises responsible parties of needed corrective actions.

Registered Construction Superintendent: For certain projects, as defined in New York City Construction Codes – Title 28, the contractor will provide a Construction Superintendent registered with the NYC Department of Buildings and responsible for all duties as defined in Chapter 33 of Title 1 of the Rules of the City of New York.

Contractor: For purposes of these Safety Requirements, the term “Contractor” will mean any person or entity that enters into a contract for the performance of construction work on a DDC project. The term “Contractor” will include any person or entity which enters into any of the following types of contracts: (1) a prime construction contract for a specific project, (2) a prime construction contract using the Job Order Contracting System (“JOCS Contract”), and (3) a subcontract with a CM/Builder (“First Tier Subcontract”).

Daily Safety Job Briefing: Daily jobsite safety briefings, given to all jobsite personnel at project site by the Contractor before work begins and/or if hazards or potential hazards are discovered while working, with the purpose of discussing the scheduled activities for the day, the hazards related to these activities, activity specific safety procedures, and Job Hazard Analysis associated with the scheduled construction work. Daily jobsite briefings will be documented, available at the jobsite, and will include at a minimum, topics, name and signature of the person conducting the briefing session, names and signatures of attendants, name of the designated competent person, contractor's name, DDC Project ID, date, time, and location.

Director – Office of Construction Safety: Responsible for the operations of the Office of Construction Safety and the DDC Site Safety management programs.

Job Hazard Analysis (JHA): A process of identifying the major job tasks and any potential site-specific hazards that may be present during construction and establishing the means and methods to eliminate or control those hazards. A JHA will be documented, available at the jobsite and will include at a minimum work tasks, being performed, identified hazards, control methods for the identified hazards, contractor's name, DDC Project ID, location, date, name and signature of certifying person. A JHA is a living document that will be re-evaluated and revised to address new hazards and tasks that may develop and will be present at the worksite and produced upon request.

Qualified Person: As defined by OSHA, an individual who, by possession of a recognized degree, certificate, license, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his or her ability to solve problems relating to the subject matter, the work, or the project. Qualified Persons are required under regulation to address issues pertaining, but without limit, to fall protection, scaffold design, maintenance and protection of traffic, and excavation protective system, among others.

Project Site: Those areas indicated in the Contract Documents where the Work is to be performed.

Project Safety Representative: The designated Project Safety Representative will have at a minimum an OSHA 30-hour Construction Safety Course and other safety training applicable to Contractor's/subcontractor's project work. This individual will be responsible to oversee safety performance of the required construction work, conduct documented daily safety inspections, and implement corrective actions to maintain a safe work site. The Project Safety Representative must have sufficient experience and skills necessary to thoroughly understand the health and safety hazards and controls and must have authority to undertake corrective actions. A dedicated full-time Project Safety Representative may be required on large projects and projects deemed by DDC to be particularly high risk. DDC reserves the right to request a dedicated full-time Project Safety Representative for any reason at any time during the course of the project at the expense of the Contractor without any additional costs to the DDC. The full-time Project Safety Representative will be present at the site during all work activities.

Resident Engineer (“RE”): Representative of the Commissioner duly designated by the Commissioner to be his/her representative at the site of the work. The RE may be a consultant retained by DDC, including a Construction Management (CM) or Resident Engineer Inspection (REI) firm. If DDC has retained a CM, REI or other consultant firm to perform management and oversight for the Project (e.g., CM-Builder, CM-Design-Builder, Project Manager, Program Manager), that CM, REI or other consultant is the Resident Engineer for purposes of these Safety Requirements.

Safety Questionnaire: Used by DDC to evaluate Contractor's current and past safety performance. It is required to be completed by all Contractors initially when submitting bids for Construction work, or when being pre-qualified and updated annually or as requested by the DDC.

Site Safety Manager: For certain projects, as defined in New York City Construction Codes – Title 28, the Contractor will provide a Site Safety Manager with a Site Safety Manager License issued by the New York City Department of Building.

Site Safety Plan: A site-specific safety plan developed by the Contractor for a DDC project. The Site Safety Plan will identify the project work scope, identify hazards associated with the project work and include project specific safety procedures and training appropriate and necessary to complete the work. The Site Safety Plan will be submitted within 30 days from the Award Date or as otherwise directed and is subject to review and acceptance by the Office of Construction Safety prior to the commencement of work at the site.

Unsafe or Unhealthy Condition: A condition that could be potentially hazardous to the health and safety of personnel or the public, and/or damaging to equipment, machinery, property, or the environment.

Weekly Safety Meetings: Weekly jobsite safety meetings, given to all jobsite personnel by Contractor, with the purpose of discussing general safety topics and job specific requirements encountered at the DDC work site. Weekly safety meetings will be documented and will include at a minimum, topics, name and signature of the person conducting the meeting, names and signatures of attendees, contractor's name, DDC Project ID, date, and location.

Work: The construction required by the Contractor's Contract Documents whether completed or partially completed, performed by the Contractor/ subcontractors. Work refers to the furnishing of labor, furnishing and incorporating materials and equipment into the construction and providing any service required by the Contract Documents to fulfill the Contractor's obligation to complete the Project. For the purposes of these Safety Requirements, the term "Work" includes all Utility Interference work (commonly referred to as "Section U", "EP-7", and "Joint Bid" work) performed in association with this Contract.

IV. RESPONSIBILITIES

All persons who manage, perform, and provide support for construction projects will conduct operations in compliance with the requirements identified in this Policy and all applicable governing regulatory agency requirements and guidelines pertaining to safety in construction.

A. Resident Engineer

1. Review and facilitate Contractor(s) Site Safety Plan submittals to DDC for acceptability.
2. Notify the Office of Construction Safety of the commencement of construction work.
3. Develop and implement a training verification process to ensure that all CM/REI, consultant, Contractor, and subcontractor employees are properly trained. Maintain all applicable initial and refresher training records and assures documentation availability on site.
4. Maintain documentation of and attend weekly safety meetings and daily safety job briefings.
5. Assure that Contractor(s) JHA's are current to reflect the work tasks being performed, hazards, and control methods to mitigate the identified hazards. Verify that all employees at the job site are trained on the JHAs and maintain supporting documentation on site.
6. Assure adequate planning for all critical construction activities (crane operation, excavation, confined space entry, etc.) including coordination between Contractor(s) /DDC/ other Agencies as required.
7. Maintain custody of all construction related permits, plans, approvals, drawings, etc., related to the project and assure their availability on site.
8. Recognize, minimize, or eliminate jobsite and public hazards, through required planning, inspection, verification, and corrective action process.
9. Monitor the conditions at the site for conformance with the Contractor's Site Safety Plan, DDC policies, permits, and all applicable regulations and documentation that pertain to construction safety.
10. Notify the Contractor and DDC immediately upon determination of any condition or activity existing which is not in compliance with the Contractor's Site Safety Plan, applicable federal, state or local codes or any

condition that presents a potential risk of injury to the public or workers or possible damage to property. Direct the Contractor to provide such labor, materials, equipment, and supervision to remedy such conditions.

11. Notify the Office of Construction Safety and the ACCO's Insurance and Risk Management Unit of project-related accidents, incidents, and near misses as per DDC's Construction Safety Emergency and Accident Notification and Response Procedure within two (2) hours.
12. In case of an accident, incident, or near miss, RE is responsible to protect the integrity of the accident site including but not limited to: the safeguarding of all evidence, documentation of all personnel on site at the time of the accident, gather facts related to all accidents, incidents, or near miss, and prepare required DDC Construction Accident Report as per DDC's Construction Safety Emergency and Accident Notification and Response Procedure. Maintain all records pertaining to accidents, incidents, and near miss and have them available upon request.
13. Notify the Office of Construction Safety within two (2) hours of the start of an inspection by any outside/regulatory agency personnel, including NYS, OSHA, NYC DOB or any other City/State/Federal oversight entity and forward a copy of the inspection report within one business day of its receipt.
14. Escort and assist Construction Safety Auditors during all field and record audits.
15. Report any emergency conditions to the Office of Construction Safety immediately.

Note: In addition to the responsibilities listed above, if the Resident Engineer is a CM/REI or other non-City party hired by the City to manage the Project, the Resident Engineer is also required to do the following:

16. Provide personnel who are certified and or trained appropriately for the requirements of the project.
17. Perform an investigation for any project-related accidents, incidents, and near misses. Within 24-hours of the time of the accident, incident, or near miss, the CM/REI will submit an investigation report to the Office of Construction Safety. Such report will include proposed remedial measures and implementation of corrective actions to prevent recurrence.

DDC reserves the right to request that the CM/REI replace any CM/REI personnel for any reason at any time during the project.

B. Construction Contractors

Note: For CM-Build and CM-Design-Build Projects, the CM will meet all requirements listed in this section, as well as the Resident Engineer section above.

1. Submit a completed Safety Questionnaire and other safety performance related documentation with its bid or as part of a pre-qualification package.
2. Submit a Site Safety Plan within 30 days from the Award Date or as otherwise directed. The Site Safety Plan is subject to review and acceptance by the Office of Construction Safety prior to the commencement of work at the site. The Site Safety Plan will be revised and updated as necessary during the course of the project. If requested by the Office of Construction Safety, the Site Safety Plan must be developed and submitted for approval using a web-based system, the Site Safety Plan Application (SSP App).
3. Designate and identify a Project Safety Representative in the Site Safety Plan. The Contractor will immediately notify the Office of Construction Safety, in a form and manner acceptable to the Office of Construction Safety, of any permanent change to the designated Project Safety Representative. In the event the primary designated Project Safety Representative is temporary unable to perform his or her duties, an alternate Project Safety Representative will be provided. Resumes, outlining the qualification and experience for the Project Safety Representative (s) will be included in the Site Safety Plan and available upon request. DDC reserves the right to request the Contractor to replace a Project Safety Representative for any reason at any time during the course of the project.
4. Designate and identify a Competent Person(s) in the Site Safety Plan. Contractor/subcontractor may be required to provide more than one competent person due to construction operations and based on a number of work tasks/areas. DDC reserves the right to request the Contractor to replace a Competent Person or provide additional Competent Person(s) for any reason at any time during the course of the project. The Competent Person will be present at the site during all work activities.
5. For certain projects, as defined in New York City Construction Codes – Title 28, designate and identify the Licensed Site Safety Manager or Registered Construction Superintendent. Resumes, outlining the qualification and experience for the Licensed Site Safety Manager or Registered Construction Superintendent will be included in the Site Safety Plan and available upon request. The Contractor will immediately notify the Office

of Construction Safety, in a form and manner acceptable to the Office of Construction Safety, of any permanent change to the designated Site Safety Manager and/or Construction Superintendent. In the event the primary designated Site Safety Manager or Construction Superintendent is temporarily unable to perform his or her duties, an alternate Licensed Site Safety Manager and/or Registered Construction Superintendent will be provided. The Office of Construction Safety must be informed of such change. DDC reserves the right to request the Contractor to replace Site Safety Manager or Construction Superintendent for any reason at any time during the course of the project.

6. Develop a written Job Hazard Analysis (JHA) that identifies safety hazards and control methods for project specific work tasks. A preliminary JHA will be included in the Site Safety Plan submitted by the Contractor. A JHA is a living document that will be re-evaluated and revised to address new hazards and tasks that may develop during the course of the project and will be present at the worksite and produced upon request.
7. Develop project specific safety procedures to protect employees, general public, and property during all construction activities for the duration of the project.
8. Ensure that all employees are aware of the hazards associated with the project through documented formal and informal training and/or other communications. Conduct and document new employee and site-specific safety orientation for all Contractor and subcontractor personnel to review the hazards associated with the project as identified in the Site Safety Plan and the specific safety procedures and controls that will be used to protect workers, the general public and property. The Project Safety Representative will conduct this training prior to mobilization and if necessary during the course of the project. Documentation will be provided to the RE.
9. Prior to performing any work on DDC projects all Contractor's and subcontractor's employees will, at a minimum, have successfully completed, within the previous five calendar years, an OSHA 10-hour construction safety course.

All training records (OSHA 10-hour, flagger, scaffold, fall protection, confined space, etc.) will be provided to the RE prior to mobilization, included in the Site Safety Plan, kept current during the course of the project, and available for review.

10. Conduct and document weekly safety meetings and daily job briefing sessions for the duration of the project. Attendance at weekly safety meetings and daily job briefing sessions is mandatory. A written record of weekly safety meetings will be available upon request and job briefing sessions will be available at the worksite.
11. As part of the Site Safety Plan, prepare site specific procedures, such as maintenance and protection of traffic plan, steel erection plan, confined space program, fall protection plan, demolition plan, site specific emergency evacuation plan, etc. (if not otherwise provided in the contract documents) and comply with all of its provisions.
12. Have immediately available for review at the project site where actual construction activities are being performed all applicable documentation, including but not limited to: JHAs for work tasks being performed, all required training records, MPT plan (where applicable), Noise and Dust Mitigation Plans, excavation protective system drawings (where applicable), Emergency Evacuation plan, fall protection program (where applicable), confined space program (where applicable), all required permits, daily job briefing records, all required documentation for crane operation (where applicable), daily inspection checklist, scaffold and sidewalk drawings (when applicable), safety data sheets for chemicals in use.
13. Comply with all federal, state and local safety and health rules, laws, and regulations.
14. Comply with all provisions of the Site Safety Plan.
15. Provide, replace, and adequately maintain at or around the project site, suitable and sufficient signage, lights, barricades and enclosures (fences, sidewalk sheds, netting, bracing, etc.). The project specific MPT plan will be developed, implemented, and reviewed during the course of the project.
16. The Project Safety Representative will conduct daily safety inspections, document the inspection results, implement corrective actions for the identified hazards. Maintain the inspection records and have them available upon request.
17. **Report unsafe or unhealthy conditions to the RE as soon as practical, but no more than 24 hours after discovery, and take prompt actions to remove or abate such conditions. Should an imminent dangerous condition be discovered, Contractor will stop all work in the area of danger until corrections are made.**
18. Report all accidents, incidents and near misses involving injuries to workers or the general public, as well as property damage, to the RE within one (1) hour.
19. Following an accident or incident, unless otherwise directed, the Contractor will not remove or alter any equipment, structure, material, or evidence related to the accident or incident. Exception: Immediate emergency procedures taken to secure structures, temporary construction, operations, or equipment that pose a continued imminent danger or facilitate assistance for persons who are trapped or who have sustained bodily injury. Take

additional measures as necessary to secure the accident or incident site and to protect against any further injury or property damage.

20. The Contractor will perform an investigation into the root cause of the accident, incident, or near miss. Within 24 hours of an accident, incident, or near miss, the Contractor will prepare and submit to the RE a written investigation report detailing findings, corrective actions, and hazard mitigation implementation to prevent recurrence.
21. Notify the RE within two (2) hours of the start of an inspection by any outside regulatory agency personnel, including OSHA, NYC DOB, or others.
22. Maintain all records pertaining to all required safety compliance documents, accidents and incidents reports. DDC reserves the right to request copy of any records pertaining to the safety of the project and required by DDC and other federal, state, and city agencies, including but not limited to permits, training records, safety inspection records, drawings, equipment records, etc.
23. Cooperate with DDC Office of Construction Safety/ RE and address DDC recommendations on safety, which will in no way relieve the Contractor of its responsibilities for safety on the project. The Contractor has sole responsibility for safety.

V. SAFETY QUESTIONNAIRE

DDC requires that all Contractors provide information regarding their current and past safety performance and programs. This will be accomplished by the use of the DDC Safety Questionnaire. As a part of the bid submittal package, the contractor will submit a completed DDC Safety Questionnaire listing company workers' compensation experience modification rating and OSHA Incident Rates for the three (3) years prior to the date of the bid opening. DDC may request a Contractor to update its Questionnaire at any time or to provide more detailed information. The Contractor will provide the requested information within 15 days.

The following criteria will be used by DDC in reviewing the Contractor's responsibility, which will be based on the information provided on the questionnaire:

- Criteria 1: OSHA Injury and Illness Rates (I&IR) are no greater than the average for the industry (based on the most current Bureau of Labor Statistics data for the Contractors SIC code); and
- Criteria 2: Insurance workers compensation Experience Modification Rate (EMR) equal to or less than 1.0; and
- Criteria 3: Any willful violations issued by OSHA or NYC DOB within the last three (3) years; and
- Criteria 4: A fatality (worker or member of public) and injuries, requiring OSHA notification, experienced on or near Contractor's worksite within the last three (3) years; and
- Criteria 5: Past safety performance on DDC projects (accidents; status of site safety plan submittals; etc.)
- Criteria 6: OSHA violation history for the last three (3) years;
- Criteria 7: Contractor will provide OSHA Injury and Illness Records (currently OSHA 300 and 300A Logs) for the last three (3) years.

If the Contractor fails to meet the basic criteria listed above, the Office of Construction Safety may request, through the ACCO, more details concerning the Contractor's safety experience. DDC may request the Contractor to provide copies of, among other things, accident investigation reports, OSHA records, OSHA and NYC DOB citations, EPA citations and written corrective action plan.

VI. SITE SAFETY PLAN

Within thirty (30) days from the Award Date or as otherwise directed, the Contractor will submit the Site Safety Plan. The Site Safety Plan will identify project work scope, safety hazards associated with the project tasks, and include specific safety procedures and training appropriate and necessary to complete the work. The Site Safety Plan is subject to review and acceptance by the Office of Construction Safety prior to the commencement of work at the site. Due to the project work scope and project duration, the Office of Construction Safety may grant a conditional acceptance for a Site Safety Plan without all sections being complete. In a case of a "Conditional Acceptance" of a Site Safety Plan,

the Contractor will provide the remaining sections previously incomplete and/or not submitted for review and acceptance by the Office of Construction Safety prior to the commencement of the construction activities. The Office of Construction Safety reserves the right to withdraw the initial “Conditional Acceptance” if the Contractor fails to provide the remaining sections of a Site Safety Plan. Failure by the Contractor to submit an acceptable Site Safety Plan will be grounds for default.

Site Safety Plan requirements: The Site Safety Plan will be a written document and will apply to all project specific Contractor and subcontractor operations, and will have at a minimum, the following elements with each described in a separate section (It may be necessary to modify the basic format for certain unique or high-risk projects, such as tunnels or high-rise construction). All Site Safety Plan sections will be numbered in the order listed below. For sections, which are not applicable for the type of the work being performed by the Contractor on DDC project, the Contractor will in writing indicate “Not applicable based on the project work scope.” The Site Safety Plan will include Contractor’s name, DDC project ID, project location (s), and development and revision dates. The Site Safety Plan will include the sections, attachments, and appendixes provided in the Site Safety Plan. All pages of the Site Safety Plan will be numbered. If requested by the Office of Construction Safety, the Site Safety Plan must be developed and submitted for approval using a web-based system, the Site Safety Plan Application (SSP App).

1. Project Work Scope – Detailed information regarding work tasks that will be performed by Contractor and subcontractors under the project.
2. Responsibility and Organization – Contractor’s organization chart with responsible personnel for the project, including titles, names, contact information, roles, and responsibilities. All Contractor’s personnel required by the DDC Safety Requirements will be identified.
3. Safety Training and Education – OSHA 10 Hours training, requirements for daily safety briefings and weekly safety meetings, any work task specific training, responsible staff for implementation of training program for the project.
4. Job Hazard Analysis (JHA) – Project specific Job Hazard Analysis including work tasks, identified hazards, hazard control methods (administrative, engineering, PPE) to protect workers, property and general public, Contractor’s name, project id, location, name and signature of a certifying person, hazard assessment date.
5. Protection of Public – Project specific procedures covering safety of the general public during all project construction activities.
6. Hazard Corrective Actions - Procedures for hazard identification, including responsible person(s), frequency of safety inspections, implementation of corrective actions, safety inspection checklist.
7. Accident/Exposure Investigation – Project specific procedures for accident/incident/near miss investigation and implementation of corrective actions. Accident/incident/near miss notification procedure of DDC project staff (time frame and responsible personnel).
8. Recording and Reporting Injuries – Procedures to meet 29 CFR 1904 requirements.
9. First Aid and Medical Attention – Responsible staff, location and inspection of First Aid kit, directions to local hospitals; emergency telephone numbers.
10. Project Specific Fire Protection and Prevention Program – Project specific procedures, including responsible staff, fire alarm system/methods, hot work procedures, etc.
11. Housekeeping Procedure.
12. Project Specific Illumination Procedure.
13. Project Specific Sanitation Procedure.
14. Personal Protective Equipment (PPE), including Respiratory Protection Program and Hearing Conservation Program, if required.
15. Hazard Communication Program – Contractor’s Hazard Communication Program, responsible staff; training; SDS records, project specific list of chemicals; location of the program and SDS records.
16. Means of Egress – Information regarding free and unobstructed egress from all parts of the building or structure; exit marking; maintenance of means of egress, etc.
17. Employee Emergency Action Plan – Project specific: responsible staff, emergency alarm system/devices, evacuation procedure, procedure to account for employees after evacuation, etc.
18. Evacuation Plan – Project specific evacuation plan (drawing/scheme) with exists and evacuation routes.
19. Ionizing/Nonionizing Radiation – Competent person, license and qualification requirements, type of radiation, employee’s exposure and protection, safety procedures, etc.

20. Material Handling, Storage, Use and Disposal – Project specific information regarding material storage, disposal, and handling: procedures, plan/drawings, etc.
21. Signs, Signals, and Barricades – Use of danger/warning signs, safety instruction signs, sidewalk closure and pedestrian fencing and barricades (if not included in the MPT plan), etc.
22. Tools – Hand and Power – Safety procedures for the type of tools to be used.
23. Scaffold – Project specific scaffold types, procedures, training requirements, scaffold drawings, designed, sealed, and signed by NYS Licensed Professional Engineer, or as otherwise directed; competent person, criteria for project specific scaffold, falling object protection, procedures for aerial lifts/scissor lifts.
24. Welding and Cutting – Project specific procedure for welding and cutting, including all necessary safety requirements such as fire prevention, personal protective equipment, hot work permits (if not covered by Contractor's Fire Prevention and Protection program, FDNY certificate requirements).
25. Electrical Safety – Project specific procedures, including lock out-tag out.
26. Fall Protection – Project specific information regarding selected fall protection systems, fall protection plan, responsible staff.
27. Cranes, Derrick, Hoists, Elevators, Conveyors – project specific equipment information including type, rated load capacity, manufacture specification requirements, competent person, exposure to falling load, inspection, recordkeeping, clearance requirements, communication procedure, ground lines, permits.
28. Excavation Safety – Competent person; excavation procedures; project specific protective system, including drawings, designed, sealed, and signed by NYS Licensed Professional Engineer, or as otherwise directed.
29. Protection of Underground Facilities and Utilities Procedure, including responsible staff and responsibilities.
30. Concrete and Masonry Construction Procedures
31. Maintenance and Protection of Traffic Plan – Project specific MPT plan, designed, sealed, and signed by NYS Licensed Professional Engineer, or as otherwise directed; flagmen training, public safety, etc.
32. Steel Erection – Site specific erection plan, requirements for applicable written notifications, competent person, fall protection plan, training requirements, etc.
33. Demolition – Engineering survey, including written evidence, disconnection of all effected utilities, identification of all hazardous chemicals, materials, gases, etc., floor openings, chutes, inspection and maintenance of all stairs/passageways, removal of materials/debris/structural elements, lock out/tag out, competent person.
34. Blasting and the Use of Explosives – Project specific safety procedures, warning signs, training/qualification, transportation, storage and use of explosives, inspection.
35. Stairways and Ladders – Types of stairs and ladders, safety procedures, training requirements.
36. Alcohol and Drug Abuse Policy
37. Rodents and Vermin Controls
38. Toxic and Hazardous Substances – Safety procedures for substances that Contractor's and subcontractor's employees can be exposed on project.
39. Noise Mitigation Plan – Completed project specific Noise Mitigation Plan, and noise mitigation procedures.
40. Confined Space Program – Project specific Confined Space Program, responsible staff, training records, equipment information, rescue procedure, list of project specific confined spaces, forms.
41. Construction Vehicles/Heavy Equipment – Type of construction vehicles/heavy equipment to be used on site, procedures
42. Dust Mitigation Plan – Completed project specific Dust Mitigation Plan, and dust mitigation procedures.
43. Working Over and Near Water. Diving Operations – safety procedures including personal protective equipment, fall protection, rescue services, etc.

The most critical component of the Site Safety Plan is the Job Hazard Analysis (JHA) section. The JHA form is a written document prepared by the Contractor. The Contractor will conduct a site and task assessment to identify the tasks and any potential safety or environmental hazards related to performance of the work, eliminate or implement controls for the potential hazards, and identify proper personal protective equipment for the task. The JHA will be communicated to all Contractor/subcontractor personnel on site. The JHA will include safety hazard identification and controls to protect employees, general public, and property.

The initial JHA will be included in the Contractor's Site Safety Plan and the current JHA form will be available at the construction site for reference. A JHA is a living document that will be re-evaluated and revised to address new hazards and tasks that may develop and will be present at the worksite and produced upon request.

VII. KICK-OFF MEETINGS/PRE-CONSTRUCTION AND SAFETY REVIEW

Prior to the start of construction activities on all DDC projects, RE will invite the Office of Construction Safety to the construction kick-off meeting. The Office of Construction Safety representative(s) will participate in this meeting with the Contractor and RE for the purpose of:

- A. Reviewing DDC Contract Safety Requirements
- B. Reviewing site-specific safety issues based on a project work scope, location, and any other factors which may impact safety of workers and general public.
- C. Reviewing the Site Safety Plan and JHA requirements.
- D. Reviewing Accident/Incident reporting and investigation procedures.
- E. Reviewing designated safety contacts, roles, and responsibilities.
- F. Discussing planned inspections and audits of the site by the Office of Construction Safety personnel.

VIII. EVALUATION DURING WORK IN PROGRESS

The Contractor's adherence to these Safety Requirements will be monitored throughout the project. This will be accomplished by the following:

- A. Use of a safety checklist by a representative of the Office of Construction Safety (or other designated DDC representative) and the RE during regular inspections and comprehensive audits of the job site. Field Exit Conferences will be held with the RE and Contractor Project Safety Representatives.
- B. The RE will continually monitor the safety and environmental performance of the Contractor's employees and work methods. Deficiencies will be brought to the attention of the Contractor's Project Safety Representative on site for immediate correction. The RE will maintain a written record of these deficiencies and have these records available upon request. Any critical deficiencies will be immediately reported to the Office of Construction Safety via telephone (718)391-1911.
- C. If the Contractor's safety performance during the project is not up to DDC standards (safety performance measure, accident/incident rate, etc.) the Director – Office of Construction Safety, or his/her designee will meet with the Contractor's Project Safety Representative and other representatives, the RE, and the DDC Environmental Specialist (if environmental issues are involved). The purpose of this meeting is to 1) determine the level of non-compliance; 2) explain and clarify the safety/environmental provisions; 3) agree on a future course of action to correct the deficiencies.
- D. If the deficiencies continue, the Commissioner may, without limitation, declare the Contractor in default.
- E. The Contractor will within 1 hour inform the RE of all accidents/incidents/near misses including all fatalities, any injuries to employees or members of the general public, and property damage (e.g., structural damage, equipment rollovers, utility damage, loads dropped from crane). The RE will notify the Office of Construction Safety as per DDC's Construction Safety Emergency and Accident Notification and Response Procedure and will maintain a record of all Contractor accidents/incidents for the project.
- F. The Contractor and the RE will notify the Office of Construction Safety within two (2) hours of the start of any NYS-DOL/ NYC-COSH/ OSHA/ EPA inspections.

IX. SAFETY PERFORMANCE EVALUATION

The Contractor's safety record, including accident/incident history and DDC safety inspection results, will be considered as part of the Contractor's performance evaluation at the conclusion of the project. Poor safety performance during the course of the project will be a reason to rate a Contractor unsatisfactory which may be reflected in the City's PASSPort system and will be considered for future procurement actions as set forth in the City's Procurement Policy Board Rules.

**RIDER TO NEW YORK CITY STANDARD CONSTRUCTION CONTRACT (MARCH
2017) REGARDING NON-COMPENSABLE DELAYS AND GROUNDS FOR
EXTENSION**

The following provisions supersede the corresponding provisions in the March 2017 version of the New York City Standard Construction Contract:

1. Section **11.5.1** provides as follows:

11.5.1 The acts or omissions of public or government bodies (other than **City** agencies) or of any third parties who are disclosed in the **Contract Documents**, or those third parties who are ordinarily encountered or who are generally recognized as related to the **Work**, including but not limited to, **Other Contractors**, utilities or private enterprises;

2. Section **11.5.6** provides as follows:

11.5.6 Climatic conditions, storms, floods, droughts, tidal waves, fires, hurricanes, earthquakes, landslides or other catastrophes or acts of God; acts of war or of the public enemy or terrorist acts; disruption, outage or power failure caused by a utility's inability or failure to provide service, pandemics, epidemics, outbreaks of infectious disease or any other public health emergency; other states of emergency declared by the City, State or Federal government, quarantine restrictions, and freight embargoes; including the **City's** reasonable responses to any of the above; and

3. Section **13.3** provides as follows:

13.3 Grounds for Extension: If such application is made, the **Contractor** shall be entitled to an extension of time for delay in completion of the **Work** caused solely:

13.3.1 By any of the acts or omissions of the **City**, its officials, agents or employees set forth in Articles **11.4.1.1** through **11.4.1.9**; or

13.3.2 By or attributable to any of the items set forth in Articles **11.5.1** through **11.5.7**.

13.3.3 The **Contractor** shall, however, be entitled to an extension of time for such causes only for the number of **Days** of delay which the **ACCO** or the Board may determine to be due solely to such causes, and then only if the **Contractor** shall have strictly complied with all of the requirements of Articles 9 and 10.

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CITY OF NEW YORK
STANDARD CONSTRUCTION CONTRACT

March 2017

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**CITY OF NEW YORK
STANDARD CONSTRUCTION CONTRACT**

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WITNESSETH:

The parties, in consideration of the mutual agreements contained herein, agree as follows:

CHAPTER I: THE CONTRACT AND DEFINITIONS

ARTICLE 1. THE CONTRACT

1.1 Except for titles, subtitles, headings, running headlines, tables of contents and indices (all of which are printed herein merely for convenience), the following, except for such portions thereof as may be specifically excluded, shall be deemed to be part of this **Contract**:

1.1.1 All provisions required by law to be inserted in this **Contract**, whether actually inserted or not;

1.1.2 The Contract Drawings and Specifications;

1.1.3 The General Conditions and Special Conditions, if any;

1.1.4 The **Contract**;

1.1.5 The Information for Bidders; Request for Proposals; Notice of Solicitation and Proposal For Bids; Bid or Proposal, and, if used, the Bid Booklet;

1.1.6 All Addenda issued prior to the receipt of the bids; the Notice of Award; Performance and Payment Bonds, if required; and the Notice to Proceed or the Order to Work.

1.2 Should any conflict occur in or between the Drawings and Specifications, the **Contractor** shall be deemed to have estimated the most expensive way of doing the **Work**, unless the **Contractor** shall have asked for and obtained a decision in writing from the **Commissioner** of the **Agency** that is entering into this **Contract**, before the submission of its bid, as to what shall govern.

ARTICLE 2. DEFINITIONS

2.1 The following words and expressions, or pronouns used in their stead, shall, wherever they appear in this Contract, be construed as follows, unless a different meaning is clear from the context:

2.1.1 “**Addendum**” or “**Addenda**” shall mean the additional Contract provisions and/or technical clarifications issued in writing by the Commissioner prior to the receipt of bids.

2.1.2 “**Agency**” shall mean a city, county, borough or other office, position, department, division, bureau, board or commission, or a corporation, institution or agency of government, the expenses of which are paid in whole or in part from the City treasury.

2.1.3 “**Agency Chief Contracting Officer**” (**ACCO**) shall mean a person delegated authority by the Commissioner to organize and supervise the procurement activity of subordinate Agency staff in conjunction with the CCPO, or his/her duly authorized representative.

2.1.4 **“Allowance”** shall mean a sum of money which the Agency may include in the total amount of the Contract for such specific contingencies as the Agency believes may be necessary to complete the Work, *e.g.*, lead or asbestos remediation, and for which the Contractor will be paid on the basis of stipulated unit prices or a formula set forth in the Contract or negotiated between the parties provided, however, that if the Contractor is not directed to use the Allowance, the Contractor shall have no right to such money and it shall be deducted from the total amount of the Contract.

2.1.5 **“City”** shall mean the City of New York.

2.1.6 **“City Chief Procurement Officer” (CCPO)** shall mean a person delegated authority by the Mayor to coordinate and oversee the procurement activity of Mayoral agency staff, including the ACCO and any offices which have oversight responsibility for the procurement of construction, or his/her duly authorized representative.

2.1.7 **“Commissioner”** shall mean the head of the Agency that has entered into this Contract, or his/her duly authorized representative.

2.1.8 **“Comptroller”** shall mean the Comptroller of the City of New York.

2.1.9 **“Contract”** or **“Contract Documents”** shall mean each of the various parts of the contract referred to in Article 1 hereof, both as a whole and severally.

2.1.10 **“Contract Drawings”** shall mean only those drawings specifically entitled as such and listed in the Specifications or in any Addendum, or any drawings furnished by the Commissioner, pertaining or supplemental thereto.

2.1.11 **“Contract Work”** shall mean everything required to be furnished and done by the Contractor by any one or more of the parts of the Contract referred to in Article 1, except Extra Work as hereinafter defined.

2.1.12 **“Contractor”** shall mean the entity which executed this Contract, whether a corporation, firm, partnership, joint venture, individual, or any combination thereof, and its, their, his/her successors, personal representatives, executors, administrators, and assigns, and any person, firm, partnership, joint venture, individual, or corporation which shall at any time be substituted in the place of the Contractor under this Contract.

2.1.13 **“Days”** shall mean calendar days, except where otherwise specified.

2.1.14 **“Engineer”** or **“Architect”** or **“Project Manager”** shall mean the person so designated in writing by the Commissioner in the Notice to Proceed or the Order to Work to act as such in relation to this Contract, including a private Architect or Engineer or Project Manager, as the case may be. Subject to written approval by the Commissioner, the Engineer, Architect or Project Manager may designate an authorized representative.

2.1.15 **“Engineering Audit Officer” (EAO)** shall mean the person so designated by the Commissioner to perform responsible auditing functions hereunder.

2.1.16 **“Extra Work”** shall mean Work other than that required by the Contract at the time of award which is authorized by the Commissioner pursuant to Chapter VI of this Contract.

- 2.1.17 **“Federal-Aid Contract”** shall mean a contract in which the United States (federal) Government provides financial funding as so designated in the Information for Bidders.
- 2.1.18 **“Final Acceptance”** shall mean final written acceptance of all the Work by the Commissioner, a copy of which shall be sent to the Contractor.
- 2.1.19 **“Final Approved Punch List”** shall mean a list, approved pursuant to Article 14.2.2, specifying those items of Work to be completed by the Contractor after Substantial Completion and dates for the completion of each item of Work.
- 2.1.20 **“Law” or “Laws”** shall mean the Constitution of the State of New York, the New York City Charter, the New York City Administrative Code, a statute of the United States or of the State of New York, a local law of the City of New York, any ordinance, rule or regulation having the force of law, or common law.
- 2.1.21 **“Materialman”** shall mean any corporation, firm, partnership, joint venture, or individual, other than employees of the Contractor, who or which contracts with the Contractor or any Subcontractor, to fabricate or deliver, or who actually fabricates or delivers, plant, materials or equipment to be incorporated in the Work.
- 2.1.22 **“Means and Methods of Construction”** shall mean the labor, materials, temporary structures, tools, plant, and construction equipment, and the manner and time of their use, necessary to accomplish the result intended by this Contract.
- 2.1.23 **“Notice to Proceed” or “Order to Work”** shall mean the written notice issued by the Commissioner specifying the time for commencement of the Work and the Engineer, Architect or Project Manager.
- 2.1.24 **“Other Contractor(s)”** shall mean any contractor (other than the entity which executed this Contract or its Subcontractors) who or which has a contract with the City for work on or adjacent to the building or Site of the Work.
- 2.1.25 **“Payroll Taxes”** shall mean State Unemployment Insurance (SUI), Federal Unemployment Insurance (FUI), and payments pursuant to the Federal Insurance Contributions Act (FICA).
- 2.1.26 **“Project”** shall mean the public improvement to which this Contract relates.
- 2.1.27 **“Procurement Policy Board” (PPB)** shall mean the Agency of the City of New York whose function is to establish comprehensive and consistent procurement policies and rules which shall have broad application throughout the City.
- 2.1.28 **“Required Quantity”** in a unit price Contract shall mean the actual quantity of any item of Work or materials which is required to be performed or furnished in order to comply with the Contract.
- 2.1.29 **“Resident Engineer”** shall mean the representative of the Commissioner duly designated by the Commissioner to be his/her representative at the site of the Work.
- 2.1.30 **“Site”** shall mean the area upon or in which the Contractor’s operations are carried on, and such other areas adjacent thereto as may be designated as such by the Engineer.

2.1.31 “**Small Tools**” shall mean items that are ordinarily required for a worker’s job function, including but not limited to, equipment that ordinarily has no licensing, insurance or substantive storage costs associated with it; such as circular and chain saws, impact drills, threaders, benders, wrenches, socket tools, etc.

2.1.32 “**Specifications**” shall mean all of the directions, requirements, and standards of performance applying to the Work as hereinafter detailed and designated under the Specifications.

2.1.33 “**Subcontractor**” shall mean any person, firm or corporation, other than employees of the Contractor, who or which contracts with the Contractor or with its subcontractors to furnish, or actually furnishes labor, or labor and materials, or labor and equipment, or superintendence, supervision and/or management at the Site. Wherever the word Subcontractor appears, it shall also mean sub-Subcontractor.

2.1.34 “**Substantial Completion**” shall mean the written determination by the Engineer that the Work required under this Contract is substantially, but not entirely, complete and the approval of the **Final Approved Punch List**.

2.1.35 “**Work**” shall mean all services required to complete the Project in accordance with the Contract Documents, including without limitation, labor, material, superintendence, management, administration, equipment, and incidentals, and obtaining any and all permits, certifications and licenses as may be necessary and required to complete the Work, and shall include both Contract Work and Extra Work.

CHAPTER II: THE WORK AND ITS PERFORMANCE

ARTICLE 3. CHARACTER OF THE WORK

3.1 Unless otherwise expressly provided in the **Contract Drawings, Specifications, and Addenda**, the **Work** shall be performed in accordance with the best modern practice, utilizing, unless otherwise specified in writing, new and unused materials of standard first grade quality and workmanship and design of the highest quality, to the satisfaction of the **Commissioner**.

ARTICLE 4. MEANS AND METHODS OF CONSTRUCTION

4.1 Unless otherwise expressly provided in the **Contract Drawings, Specifications, and Addenda**, the **Means and Methods of Construction** shall be such as the **Contractor** may choose; subject, however, to the **Engineer’s** right to reject the **Means and Methods of Construction** proposed by the **Contractor** which in the opinion of the **Engineer**:

4.1.1 Will constitute or create a hazard to the **Work**, or to persons or property; or

4.1.2 Will not produce finished **Work** in accordance with the terms of the **Contract**; or

4.1.3 Will be detrimental to the overall progress of the **Project**.

4.2 The **Engineer’s** approval of the **Contractor’s Means and Methods of Construction**, or his/her failure to exercise his/her right to reject such means or methods, shall not relieve the **Contractor**

of its obligation to complete the **Work** as provided in this **Contract**; nor shall the exercise of such right to reject create a cause of action for damages.

ARTICLE 5. COMPLIANCE WITH LAWS

5.1 The **Contractor** shall comply with all **Laws** applicable to this **Contract** and to the **Work** to be done hereunder.

5.2 Procurement Policy Board Rules: This **Contract** is subject to the Rules of the **PPB** (“**PPB Rules**”) in effect at the time of the bid opening for this **Contract**. In the event of a conflict between the **PPB Rules** and a provision of this **Contract**, the **PPB Rules** shall take precedence.

5.3 Noise Control Code provisions.

5.3.1 In accordance with the provisions of Section 24-216(b) of the Administrative Code of the **City** (“Administrative Code”), Noise Abatement Contract Compliance, devices and activities which will be operated, conducted, constructed or manufactured pursuant to this **Contract** and which are subject to the provisions of the **City** Noise Control Code shall be operated, conducted, constructed, or manufactured without causing a violation of the Administrative Code. Such devices and activities shall incorporate advances in the art of noise control development for the kind and level of noise emitted or produced by such devices and activities, in accordance with regulations issued by the **Commissioner** of the **City** Department of Environmental Protection.

5.3.2 The **Contractor** agrees to comply with Section 24-219 of the Administrative Code and implementing rules codified at 15 Rules of the City of New York (“RCNY”) Section 28-100 *et seq.* In accordance with such provisions, the **Contractor**, if the **Contractor** is the responsible party under such regulations, shall prepare and post a Construction Noise Mitigation Plan at each **Site**, in which the **Contractor** shall certify that all construction tools and equipment have been maintained so that they operate at normal manufacturers operating specifications. If the **Contractor** cannot make this certification, it must have in place an Alternative Noise Mitigation Plan approved by the **City** Department of Environmental Protection. In addition, the **Contractor**’s certified Construction Noise Mitigation Plan is subject inspection by the **City** Department of Environmental Protection in accordance with Section 28-101 of Title 15 of RCNY. No **Contract Work** may take place at a **Site** unless there is a Construction Noise Mitigation Plan or approved Alternative Noise Mitigation Plan in place. In addition, the **Contractor** shall create and implement a noise mitigation training program. Failure to comply with these requirements may result in fines and other penalties pursuant to the applicable provisions of the Administrative Code and RCNY.

5.4 Ultra Low Sulfur Diesel Fuel: In accordance with the provisions of Section 24-163.3 of the Administrative Code, the **Contractor** specifically agrees as follows:

5.4.1 Definitions. For purposes of this Article 5.4, the following definitions apply:

5.4.1(a) “Contractor” means any person or entity that enters into a Public Works Contract with a **City Agency**, or any person or entity that enters into an agreement with such person or entity, to perform work or provide labor or services related to such Public Works Contract.

5.4.1(b) “Motor Vehicle” means any self-propelled vehicle designed for transporting persons or property on a street or highway.

5.4.1(c) “Nonroad Engine” means an internal combustion engine (including the fuel system) that is not used in a Motor Vehicle or a vehicle used solely for competition, or that is not subject to standards promulgated under Section 7411 or Section 7521 of Title 42 of the United States Code, except that this term shall apply to internal combustion engines used to power generators, compressors or similar equipment used in any construction program or project.

5.4.1(d) “Nonroad Vehicle” means a vehicle that is powered by a Nonroad Engine, fifty (50) horsepower and greater, and that is not a Motor Vehicle or a vehicle used solely for competition, which shall include, but not be limited to, excavators, backhoes, cranes, compressors, generators, bulldozers, and similar equipment, except that this term shall not apply to horticultural maintenance vehicles used for landscaping purposes that are powered by a Nonroad Engine of sixty-five (65) horsepower or less and that are not used in any construction program or project.

5.4.1(e) “Public Works Contract” means a contract with a **City Agency** for a construction program or project involving the construction, demolition, restoration, rehabilitation, repair, renovation, or abatement of any building, structure, tunnel, excavation, roadway, park or bridge; a contract with a **City Agency** for the preparation for any construction program or project involving the construction, demolition, restoration, rehabilitation, repair, renovation, or abatement of any building, structure, tunnel, excavation, roadway, park or bridge; or a contract with a **City Agency** for any final work involved in the completion of any construction program or project involving the construction, demolition, restoration, rehabilitation, repair, renovation, or abatement of any building, structure, tunnel, excavation, roadway, park or bridge.

5.4.1(f) “Ultra Low Sulfur Diesel Fuel” means diesel fuel that has a sulfur content of no more than fifteen parts per million (15 ppm).

5.4.2 Ultra Low Sulfur Diesel Fuel

5.4.2(a) All **Contractors** shall use Ultra Low Sulfur Diesel Fuel in diesel-powered Nonroad Vehicles in the performance of this **Contract**.

5.4.2(b) Notwithstanding the requirements of Article 5.4.2(a), **Contractors** may use diesel fuel that has a sulfur content of no more than thirty parts per million (30 ppm) to fulfill the requirements of this Article 5.4.2, where the Commissioner of the **City Department of Environmental Protection** (“DEP Commissioner”) has issued a determination that a sufficient quantity of Ultra Low Sulfur Diesel Fuel is not available to meet the needs of **Agencies** and **Contractors**. Any such determination shall expire after six (6) months unless renewed.

5.4.2(c) **Contractors** shall not be required to comply with this Article 5.4.2 where the **City Agency** letting this **Contract** makes a written finding, which is approved, in writing, by the DEP Commissioner, that a sufficient quantity of Ultra Low Sulfur Diesel Fuel, or diesel fuel that has a sulfur content of no more than thirty parts per million (30 ppm) is not available to meet the requirements of Section 24-163.3 of the Administrative Code, provided that such **Contractor** in its fulfillment of the

requirements of this **Contract**, to the extent practicable, shall use whatever quantity of Ultra Low Sulfur Diesel Fuel or diesel fuel that has a sulfur content of no more than thirty parts per million (30 ppm) is available. Any finding made pursuant to this Article 5.4.2(c) shall expire after sixty (60) **Days**, at which time the requirements of this Article 5.4.2 shall be in full force and effect unless the **City Agency** renews the finding in writing and such renewal is approved by the DEP Commissioner.

5.4.2(d) **Contractors** may check on determinations and approvals issued by the DEP Commissioner pursuant to Section 24-163.3 of the Administrative Code, if any, at www.dep.nyc.gov or by contacting the **City Agency** letting this **Contract**.

5.4.2(e) The requirements of this Article 5.4.2 do not apply where they are precluded by federal or State funding requirements or where the **Contract** is an emergency procurement.

5.4.3 Best Available Technology

5.4.3(a) All **Contractors** shall utilize the best available technology for reducing the emission of pollutants for diesel-powered Nonroad Vehicles in the performance of this **Contract**. For determinations of best available technology for each type of diesel-powered Nonroad Vehicle, **Contractors** shall comply with the regulations of the **City** Department of Environmental Protection, as and when adopted, Chapter 14 of Title 15 of the Rules of the City of New York (RCNY). The **Contractor** shall fully document all steps in the best available technology selection process and shall furnish such documentation to the **City Agency** or the DEP Commissioner upon request. The **Contractor** shall retain all documentation generated in the best available technology selection process for as long as the selected best available technology is in use.

5.4.3(b) No **Contractor** shall be required to replace best available technology for reducing the emission of pollutants or other authorized technology utilized for a diesel-powered Nonroad Vehicle in accordance with the provisions of this Article 5.4.3 within three (3) years of having first utilized such technology for such vehicle.

5.4.3(c) This Article 5.4.3 shall not apply to any vehicle used to satisfy the requirements of a specific Public Works Contract for fewer than twenty (20) **Days**.

5.4.3(d) The **Contractor** shall not be required to comply with this Article 5.4.3 with respect to a diesel-powered Nonroad Vehicle under the following circumstances:

5.4.3(d)(i) Where the **City Agency** makes a written finding, which is approved, in writing, by the DEP Commissioner, that the best available technology for reducing the emission of pollutants as required by this Article 5.4.3 is unavailable for such vehicle, the **Contractor** shall use whatever technology for reducing the emission of pollutants, if any, is available and appropriate for such vehicle.

5.4.3(d)(ii) Where the DEP Commissioner has issued a written waiver based upon the **Contractor** having demonstrated to the DEP Commissioner that the use of the best available technology for reducing the emission of pollutants might endanger the operator of such vehicle or those working near such vehicle, due to engine malfunction, the **Contractor** shall use whatever technology for

reducing the emission of pollutants, if any, is available and appropriate for such vehicle, which would not endanger the operator of such vehicle or those working near such vehicle.

5.4.3(d)(iii) In determining which technology to use for the purposes of Articles 5.4.3(d)(i) and 5.4.3(d)(ii) above, the **Contractor** shall primarily consider the reduction in emissions of particulate matter and secondarily consider the reduction in emissions of nitrogen oxides associated with the use of such technology, which shall in no event result in an increase in the emissions of either such pollutant.

5.4.3(d)(iv) The **Contractor** shall submit requests for a finding or a waiver pursuant to this Article 5.4.3(d) in writing to the DEP Commissioner, with a copy to the **ACCO** of the **City Agency** letting this **Contract**. Any finding or waiver made or issued pursuant to Articles 5.4.3(d)(i) and 5.4.3(d)(ii) above shall expire after one hundred eighty (180) **Days**, at which time the requirements of Article 5.4.3(a) shall be in full force and effect unless the **City Agency** renews the finding, in writing, and the DEP Commissioner approves such finding, in writing, or the DEP Commissioner renews the waiver, in writing.

5.4.3(e) The requirements of this Article 5.4.3 do not apply where they are precluded by federal or State funding requirements or where the **Contract** is an emergency procurement.

5.4.4 Section 24-163 of the Administrative Code. The **Contractor** shall comply with Section 24-163 of the Administrative Code related to the idling of the engines of motor vehicles while parking.

5.4.5 Compliance

5.4.5(a) The **Contractor's** compliance with Article 5.4 may be independently monitored. If it is determined that the **Contractor** has failed to comply with any provision of Article 5.4, any costs associated with any independent monitoring incurred by the **City** shall be reimbursed by the **Contractor**.

5.4.5(b) Any **Contractor** who violates any provision of Article 5.4, except as provided in Article 5.4.5(c) below, shall be liable for a civil penalty between the amounts of one thousand (\$1,000) and ten thousand (\$10,000) dollars, in addition to twice the amount of money saved by such **Contractor** for failure to comply with Article 5.4.

5.4.5(c) No **Contractor** shall make a false claim with respect to the provisions of Article 5.4 to a **City Agency**. Where a **Contractor** has been found to have done so, such **Contractor** shall be liable for a civil penalty of twenty thousand (\$20,000) dollars, in addition to twice the amount of money saved by such **Contractor** in association with having made such false claim.

5.4.6 Reporting

5.4.6(a) For all Public Works Contracts covered by this Article 5.4, the **Contractor** shall report to the **City Agency** the following information:

5.4.6(a)(i) The total number of diesel-powered Nonroad Vehicles used to fulfill the requirements of this Public Works Contract;

5.4.6(a)(ii) The number of such Nonroad Vehicles that were powered by Ultra Low Sulfur Diesel Fuel;

5.4.6(a)(iii) The number of such Nonroad Vehicles that utilized the best available technology for reducing the emission of pollutants, including a breakdown by vehicle model and the type of technology;

5.4.6(a)(iv) The number of such Nonroad Vehicles that utilized such other authorized technology in accordance with Article 5.4.3, including a breakdown by vehicle model and the type of technology used for each such vehicle;

5.4.6(a)(v) The locations where such Nonroad Vehicles were used; and

5.4.6(a)(vi) Where a determination is in effect pursuant to Article 5.4.2(b) or 5.4.2(c), detailed information concerning the **Contractor's** efforts to obtain Ultra Low Sulfur Diesel Fuel or diesel fuel that has a sulfur content of no more than thirty parts per million (30 ppm).

5.4.6(b) The **Contractor** shall submit the information required by Article 5.4.6(a) at the completion of **Work** under the Public Works Contract and on a yearly basis no later than August 1 throughout the term of the Public Works Contract. The yearly report shall cover **Work** performed during the preceding fiscal year (July 1 - June 30).

5.5 Ultra Low Sulfur Diesel Fuel. In accordance with the Coordinated Construction Act for Lower Manhattan, as amended:

5.5.1 Definitions. For purposes of this Article 5.5, the following definitions apply:

5.5.1(a) "Lower Manhattan" means the area to the south of and within the following lines: a line beginning at a point where the United States pierhead line in the Hudson River as it exists now or may be extended would intersect with the southerly line of West Houston Street in the Borough of Manhattan extended, thence easterly along the southerly side of West Houston Street to the southerly side of Houston Street, thence easterly along the southerly side of Houston Street to the southerly side of East Houston Street, thence northeasterly along the southerly side of East Houston Street to the point where it would intersect with the United States pierhead line in the East River as it exists now or may be extended, including tax lots within or immediately adjacent thereto.

5.5.1(b) "Lower Manhattan Redevelopment Project" means any project in Lower Manhattan that is funded in whole or in part with federal or State funding, or any project intended to improve transportation between Lower Manhattan and the two air terminals in the **City** known as LaGuardia Airport and John F. Kennedy International Airport, or between Lower Manhattan and the air terminal in Newark known as Newark Liberty International Airport, and that is funded in whole or in part with federal funding.

5.5.1(c) “Nonroad Engine” means an internal combustion engine (including the fuel system) that is not used in a Motor Vehicle or a vehicle used solely for competition, or that is not subject to standards promulgated under Section 7411 or Section 7521 of Title 42 of the United States Code, except that this term shall apply to internal combustion engines used to power generators, compressors or similar equipment used in any construction program or project.

5.5.1(d) “Nonroad Vehicle” means a vehicle that is powered by a Nonroad Engine, fifty (50) horsepower (HP) and greater, and that is not a Motor Vehicle or a vehicle used solely for competition, which shall include, but not be limited to, excavators, backhoes, cranes, compressors, generators, bulldozers, and similar equipment, except that this terms shall not apply to horticultural maintenance vehicles used for landscaping purposes that are powered by a Nonroad Engine of sixty-five (65) HP or less and that are not used in any construction program or project.

5.5.1(e) “Ultra Low Sulfur Diesel Fuel” means diesel fuel that has a sulfur content of no more than fifteen parts per million (15 ppm).

5.5.2 Requirements. **Contractors** and **Subcontractors** are required to use only Ultra Low Sulfur Diesel Fuel to power the diesel-powered Nonroad Vehicles with engine HP rating of fifty (50) HP and above used on a Lower Manhattan Redevelopment Project and, where practicable, to reduce the emission of pollutants by retrofitting such Nonroad Vehicles with oxidation catalysts, particulate filters, or technology that achieves lowest particulate matter emissions.

5.6 Pesticides. In accordance with Section 17-1209 of the Administrative Code, to the extent that the **Contractor** or any **Subcontractor** applies pesticides to any property owned or leased by the **City**, the **Contractor**, and any **Subcontractor** shall comply with Chapter 12 of the Administrative Code.

5.7 Waste Treatment, Storage, and Disposal Facilities and Transporters. In connection with the **Work**, the **Contractor** and any **Subcontractor** shall use only those waste treatment, storage, and disposal facilities and waste transporters that possess the requisite license, permit or other governmental approval necessary to treat, store, dispose, or transport the waste, materials or hazardous substances.

5.8 Environmentally Preferable Purchasing. The **Contractor** shall ensure that products purchased or leased by the **Contractor** or any **Subcontractor** for the **Work** that are not specified by the **City** or are submitted as equivalents to a product specified by the **City** comply with the requirements of the New York City Environmentally Preferable Purchasing Program contained in Chapter 11 of Title 43 of the RCNY, pursuant to Chapter 3 of Title 6 of the Administrative Code.

ARTICLE 6. INSPECTION

6.1 During the progress of the **Work** and up to the date of **Final Acceptance**, the **Contractor** shall at all times afford the representatives of the **City** every reasonable, safe, and proper facility for inspecting all **Work** done or being done at the **Site** and also for inspecting the manufacture or preparation of materials and equipment at the place of such manufacture or preparation.

6.2 The **Contractor’s** obligation hereunder shall include the uncovering or taking down of finished **Work** and its restoration thereafter; provided, however, that the order to uncover, take down and restore shall be in writing, and further provided that if **Work** thus exposed proves satisfactory, and if the **Contractor** has complied with Article 6.1, such uncovering or taking down and restoration shall be

considered an item of **Extra Work** to be paid for in accordance with the provisions of Article 26. If the **Work** thus exposed proves unsatisfactory, the **City** has no obligation to compensate the **Contractor** for the uncovering, taking down or restoration.

6.3 Inspection and approval by the **Commissioner**, the **Engineer**, **Project Manager**, or **Resident Engineer**, of finished **Work** or of **Work** being performed, or of materials and equipment at the place of manufacture or preparation, shall not relieve the **Contractor** of its obligation to perform the **Work** in strict accordance with the **Contract**. Finished or unfinished **Work** not found to be in strict accordance with the **Contract** shall be replaced as directed by the **Engineer**, even though such **Work** may have been previously approved and paid for. Such corrective **Work** is **Contract Work** and shall not be deemed **Extra Work**.

6.4 Rejected **Work** and materials shall be promptly taken down and removed from the **Site**, which must at all times be kept in a reasonably clean and neat condition.

ARTICLE 7. PROTECTION OF WORK AND OF PERSONS AND PROPERTY; NOTICES AND INDEMNIFICATION

7.1 During the performance of the **Work** and up to the date of **Final Acceptance**, the **Contractor** shall be under an absolute obligation to protect the finished and unfinished **Work** against any damage, loss, injury, theft and/or vandalism and in the event of such damage, loss, injury, theft and/or vandalism, it shall promptly replace and/or repair such **Work** at the **Contractor's** sole cost and expense, as directed by the **Resident Engineer**. The obligation to deliver finished **Work** in strict accordance with the **Contract** prior to **Final Acceptance** shall be absolute and shall not be affected by the **Resident Engineer's** approval of, or failure to prohibit, the **Means and Methods of Construction** used by the **Contractor**.

7.2 During the performance of the **Work** and up to the date of **Final Acceptance**, the **Contractor** shall take all reasonable precautions to protect all persons and the property of the **City** and of others from damage, loss or injury resulting from the **Contractor's**, and/or its **Subcontractors'** operations under this **Contract**. The **Contractor's** obligation to protect shall include the duty to provide, place or replace, and adequately maintain at or about the **Site** suitable and sufficient protection such as lights, barricades, and enclosures.

7.3 The **Contractor** shall comply with the notification requirements set forth below in the event of any loss, damage or injury to **Work**, persons or property, or any accidents arising out of the operations of the **Contractor** and/or its **Subcontractors** under this **Contract**.

7.3.1 The **Contractor** shall make a full and complete report in writing to the **Resident Engineer** within three (3) **Days** after the occurrence.

7.3.2 The **Contractor** shall also send written notice of any such event to all insurance carriers that issued potentially responsive policies (including commercial general liability insurance carriers for events relating to the **Contractor's** own employees) no later than twenty (20) days after such event and again no later than twenty (20) days after the initiation of any claim and/or action resulting therefrom. Such notice shall contain the following information: the number of the insurance policy, the name of the Named Insured, the date and location of the incident, and the identity of the persons injured or property damaged. For any policy on which the **City** and/or the **Engineer**, **Architect**, or **Project Manager** are Additional Insureds, such notice shall expressly specify that "this notice is

being given on behalf of the City of New York as Additional Insured, such other Additional Insureds, as well as the Named Insured.”

7.3.2(a) Whenever such notice is sent under a policy on which the **City** is an Additional Insured, the **Contractor** shall provide copies of the notice to the **Comptroller**, the **Commissioner** and the **City** Corporation Counsel. The copy to the **Comptroller** shall be sent to the Insurance Unit, NYC Comptroller’s Office, 1 Centre Street – Room 1222, New York, New York, 10007. The copy to the **Commissioner** shall be sent to the address set forth in Schedule A of the General Conditions. The copy to the **City** Corporation Counsel shall be sent to Insurance Claims Specialist, Affirmative Litigation Division, New York City Law Department, 100 Church Street, New York, New York 10007.

7.3.2(b) If the **Contractor** fails to provide any of the foregoing notices to any appropriate insurance carrier(s) in a timely and complete manner, the **Contractor** shall indemnify the **City** for all losses, judgments, settlements, and expenses, including reasonable attorneys’ fees, arising from an insurer’s disclaimer of coverage citing late notice by or on behalf of the **City**.

7.4 To the fullest extent permitted by law, the **Contractor** shall defend, indemnify, and hold the **City**, its employees, and officials (the “Indemnitees”) harmless against any and all claims (including but not limited to claims asserted by any employee of the **Contractor** and/or its **Subcontractors**) and costs and expenses of whatever kind (including but not limited to payment or reimbursement of attorneys’ fees and disbursements) allegedly arising out of or in any way related to the operations of the **Contractor** and/or its **Subcontractors** in the performance of this **Contract** or from the **Contractor’s** and/or its **Subcontractors’** failure to comply with any of the provisions of this **Contract** or of the **Law**. Such costs and expenses shall include all those incurred in defending the underlying claim and those incurred in connection with the enforcement of this Article 7.4 by way of cross-claim, third-party claim, declaratory action or otherwise. The parties expressly agree that the indemnification obligation hereunder contemplates (1) full indemnity in the event of liability imposed against the Indemnitees without negligence and solely by reason of statute, operation of **Law** or otherwise; and (2) partial indemnity in the event of any actual negligence on the part of the Indemnitees either causing or contributing to the underlying claim (in which case, indemnification will be limited to any liability imposed over and above that percentage attributable to actual fault whether by statute, by operation of **Law**, or otherwise). Where partial indemnity is provided hereunder, all costs and expenses shall be indemnified on a pro rata basis.

7.4.1 Indemnification under Article 7.4 or any other provision of the **Contract** shall operate whether or not **Contractor** or its **Subcontractors** have placed and maintained the insurance specified under Article 22.

7.5 The provisions of this Article 7 shall not be deemed to create any new right of action in favor of third parties against the **Contractor** or the **City**.

CHAPTER III: TIME PROVISIONS

ARTICLE 8. COMMENCEMENT AND PROSECUTION OF THE WORK

8.1 The **Contractor** shall commence the **Work** on the date specified in the **Notice to Proceed** or the **Order to Work**. The time for performance of the **Work** under the **Contract** shall be computed from

the date specified in the **Notice to Proceed** or the **Order to Work**. **TIME BEING OF THE ESSENCE** to the **City**, the **Contractor** shall thereafter prosecute the **Work** diligently, using such **Means and Methods of Construction** as are in accord with Article 4 herein and as will assure its completion not later than the date specified in this Contract, or on the date to which the time for completion may be extended.

ARTICLE 9. PROGRESS SCHEDULES

9.1 To enable the **Work** to be performed in an orderly and expeditious manner, the **Contractor**, within fifteen (15) **Days** after the **Notice to Proceed** or **Order to Work**, unless otherwise directed by the **Engineer**, shall submit to the **Engineer** a proposed progress schedule based on the Critical Path Method in the form of a bar graph or in such other form as specified by the **Engineer**, and monthly cash flow requirements, showing:

9.1.1 The anticipated time of commencement and completion of each of the various operations to be performed under this **Contract**; and

9.1.2 The sequence and interrelation of each of these operations with the others and with those of other related contracts; and

9.1.3 The estimated time required for fabrication or delivery, or both, of all materials and equipment required for the **Work**, including the anticipated time for obtaining required approvals pursuant to Article 10; and

9.1.4 The estimated amount in dollars the **Contractor** will claim on a monthly basis.

9.2 The proposed schedule shall be revised as directed by the **Engineer**, until finally approved by the **Engineer**, and after such approval, subject to the provisions of Article 11, shall be strictly adhered to by the **Contractor**.

9.3 If the **Contractor** shall fail to adhere to the approved progress schedule, or to the schedule as revised pursuant to Article 11, it shall promptly adopt such other or additional **Means and Methods of Construction**, at its sole cost and expense, as will make up for the time lost and will assure completion in accordance with the approved progress schedule. The approval by the **City** of a progress schedule which is shorter than the time allotted under the **Contract** shall not create any liability for the **City** if the approved progress schedule is not met.

9.4 The **Contractor** will not receive any payments until the proposed progress schedule is submitted.

ARTICLE 10. REQUESTS FOR INFORMATION OR APPROVAL

10.1 From time to time as the **Work** progresses and in the sequence indicated by the approved progress schedule, the **Contractor** shall submit to the **Engineer** a specific request in writing for each item of information or approval required by the **Contractor**. These requests shall state the latest date upon which the information or approval is actually required by the **Contractor**, and shall be submitted in a reasonable time in advance thereof to provide the **Engineer** a sufficient time to act upon such submissions, or any necessary re-submissions thereof.

10.2 The **Contractor** shall not have any right to an extension of time on account of delays due to the **Contractor's** failure to submit requests for the required information or the required approval in accordance with the above requirements.

ARTICLE 11. NOTICE OF CONDITIONS CAUSING DELAY AND DOCUMENTATION OF DAMAGES CAUSED BY DELAY

11.1 After the commencement of any condition which is causing or may cause a delay in completion of the **Work**, including conditions for which the **Contractor** may be entitled to an extension of time, the following notifications and submittals are required:

11.1.1 Within fifteen (15) **Days** after the **Contractor** becomes aware or reasonably should be aware of each such condition, the **Contractor** must notify the **Resident Engineer** or **Engineer**, as directed by the **Commissioner**, in writing of the existence, nature and effect of such condition upon the approved progress schedule and the **Work**, and must state why and in what respects, if any, the condition is causing or may cause a delay. Such notice shall include a description of the construction activities that are or could be affected by the condition and may include any recommendations the **Contractor** may have to address the delay condition and any activities the **Contractor** may take to avoid or minimize the delay.

11.1.2 If the **Contractor** shall claim to be sustaining damages for delay as provided for in this Article 11, within forty-five (45) **Days** from the time such damages are first incurred for each such condition, the **Contractor** shall submit to the **Commissioner** a verified written statement of the details and estimates of the amounts of such damages, including categories of expected damages and projected monthly costs, together with documentary evidence of such damages as the **Contractor** may have at the time of submission ("statement of delay damages"), as further detailed in Article 11.6. The **Contractor** may submit the above statement within such additional time as may be granted by the **Commissioner** in writing upon written request therefor.

11.1.3 Articles 11.1.1 and 11.1.2 do not relieve the **Contractor** of its obligation to comply with the provisions of Article 44.

11.2 Failure of the **Contractor** to strictly comply with the requirements of Article 11.1.1 may, in the discretion of the **Commissioner**, be deemed sufficient cause to deny any extension of time on account of delay arising out of such condition. Failure of the **Contractor** to strictly comply with the requirements of both Articles 11.1.1 and 11.1.2 shall be deemed a conclusive waiver by the **Contractor** of any and all claims for damages for delay arising from such condition and no right to recover on such claims shall exist.

11.3 When appropriate and directed by the **Engineer**, the progress schedule shall be revised by the **Contractor** until finally approved by the **Engineer**. The revised progress schedule must be strictly adhered to by the **Contractor**.

11.4 Compensable Delays

11.4.1 The **Contractor** agrees to make claim only for additional costs attributable to delay in the performance of this **Contract** necessarily extending the time for completion of the **Work** or resulting from acceleration directed by the **Commissioner** and required to maintain the progress schedule, occasioned solely by any act or omission to act of the **City** listed below. The **Contractor** also agrees that delay from any other cause shall be

compensated, if at all, solely by an extension of time to complete the performance of the **Work**.

- 11.4.1.1 The failure of the **City** to take reasonable measures to coordinate and progress the **Work** to the extent required by the **Contract**, except that the City shall not be responsible for the **Contractor's** obligation to coordinate and progress the **Work** of its **Subcontractors**.
- 11.4.1.2 Unreasonable delays attributable to the review of shop drawings, the issuance of change orders, or the cumulative impact of change orders that were not brought about by any act or omission of the **Contractor**.
- 11.4.1.3 The unavailability of the **Site** caused by acts or omissions of the **City**.
- 11.4.1.4 The issuance by the **Engineer** of a stop work order that was not brought about through any act or omission of the **Contractor**.
- 11.4.1.5 Differing site conditions or environmental hazards that were neither known nor reasonably ascertainable on a pre-bid inspection of the **Site** or review of the bid documents or other publicly available sources, and that are not ordinarily encountered in the **Project's** geographical area or neighborhood or in the type of **Work** to be performed.
- 11.4.1.6 Delays caused by the **City's** bad faith or its willful, malicious, or grossly negligent conduct;
- 11.4.1.7 Delays not contemplated by the parties;
- 11.4.1.8 Delays so unreasonable that they constitute an intentional abandonment of the **Contract** by the **City**; and
- 11.4.1.9 Delays resulting from the **City's** breach of a fundamental obligation of the **Contract**.

11.4.2 No claim may be made for any alleged delay in **Substantial Completion** of the **Work** if the **Work** will be or is substantially completed by the date of **Substantial Completion** provided for in Schedule A unless acceleration has been directed by the **Commissioner** to meet the date of **Substantial Completion** set forth in Schedule A, or unless there is a provision in the **Contract** providing for additional compensation for early completion.

11.4.3 The provisions of this Article 11 apply only to claims for additional costs attributable to delay and do not preclude determinations by the **Commissioner** allowing reimbursements for additional costs for **Extra Work** pursuant to Articles 25 and 26 of this **Contract**. To the extent that any cost attributable to delay is reimbursed as part of a change order, no additional claim for compensation under this Article 11 shall be allowed.

11.5 Non-Compensable Delays. The **Contractor** agrees to make no claim for, and is deemed to have included in its bid prices for the various items of the **Contract**, the extra/additional costs attributable to any delays caused by or attributable to the items set forth below. For such items, the **Contractor** shall be compensated, if at all, solely by an extension of time to complete the performance of the **Work**, in accordance with the provisions of Article 13. Such extensions of time will be granted, if at all, pursuant to the grounds set forth in Article 13.3.

11.5.1 The acts or omissions of any third parties, including but not limited to **Other Contractors**, public/ governmental bodies (other than **City Agencies**), utilities or private enterprises, who are disclosed in the **Contract Documents** or are ordinarily encountered or generally recognized as related to the **Work**;

11.5.2 Any situation which was within the contemplation of the parties at the time of entering into the **Contract**, including any delay indicated or disclosed in the **Contract Documents** or that would be generally recognized by a reasonably prudent contractor as related to the nature of the **Work**, and/or the existence of any facility or appurtenance owned, operated or maintained by any third party, as indicated or disclosed in the **Contract Documents** or ordinarily encountered or generally recognized as related to the nature of the **Work**;

11.5.3 Restraining orders, injunctions or judgments issued by a court which were caused by a Contractor's submission, action or inaction or by a Contractor's **Means and Methods of Construction**, or by third parties, unless such order, injunction or judgment was the result of an act or omission by the **City**;

11.5.4 Any labor boycott, strike, picketing, lockout or similar situation;

11.5.5 Any shortages of supplies or materials, or unavailability of equipment, required by the **Contract Work**;

11.5.6 Climatic conditions, storms, floods, droughts, tidal waves, fires, hurricanes, earthquakes, landslides or other catastrophes or acts of God, or acts of war or of the public enemy or terrorist acts, including the **City's** reasonable responses thereto; and

11.5.7 **Extra Work** which does not significantly affect the overall completion of the **Contract**, reasonable delays in the review or issuance of change orders or field orders and/or in shop drawing reviews or approvals.

11.6 Required Content of Submission of Statement of Delay Damages

11.6.1 In the verified written statement of delay damages required by Article 11.1.2, the following information shall be provided by the **Contractor**:

11.6.1.1 For each delay, the start and end dates of the claimed periods of delay and, in addition, a description of the operations that were delayed, an explanation of how they were delayed, and the reasons for the delay, including identifying the applicable act or omission of the City listed in Article 11.4.

11.6.1.2 A detailed factual statement of the claim providing all necessary dates, locations and items of **Work** affected by the claim.

11.6.1.3 The estimated amount of additional compensation sought and a breakdown of that amount into categories as described in Article 11.7.

11.6.1.4 Any additional information requested by the **Commissioner**.

11.7 Recoverable Costs

11.7.1 Delay damages may be recoverable for the following costs actually and necessarily incurred in the performance of the **Work**:

11.7.1.1 Direct labor, including payroll taxes (subject to statutory wage caps) and supplemental benefits, based on time and materials records;

11.7.1.2 Necessary materials (including transportation to the **Site**), based on time and material records;

- 11.7.1.3 Reasonable rental value of necessary plant and equipment other than small tools, plus fuel/energy costs according to the applicable formula set forth in Articles 26.2.4 and/or 26.2.8, based on time and material records;
- 11.7.1.4 Additional insurance and bond costs;
- 11.7.1.5 Extended **Site** overhead, field office rental, salaries of field office staff, on-site project managers and superintendents, field office staff vehicles, **Project**-specific storage, field office utilities and telephone, and field office consumables;
- 11.7.1.6 Labor escalation costs based on actual costs;
- 11.7.1.7 Materials and equipment escalation costs based on applicable industry indices unless documentation of actual increased cost is provided;
- 11.7.1.8 Additional material and equipment storage costs based on actual documented costs and additional costs necessitated by extended manufacturer warranty periods; and
- 11.7.1.9 Extended home office overhead calculated based on the following formula:
 - (1) Subtract from the original **Contract** amount the amount earned by original contractual **Substantial Completion** date (not including change orders);
 - (2) Remove 15% overhead and profit from the calculation in item (1) by dividing the results of item (1) by 1.15;
 - (3) Multiply the result of item (2) by 7.25% for the total home office overhead;
 - (4) Multiply the result of item (3) by 7.25% for the total profit; and
 - (5) The total extended home office overhead will be the total of items (3) and (4).

11.7.2 Recoverable Subcontractor Costs. When the **Work** is performed by a **Subcontractor**, the **Contractor** may be paid the actual and necessary costs of such subcontracted **Work** as outlined above in Articles 11.7.1.1 through 11.7.1.8, and an additional overhead of 5% of the costs outlined in Articles 11.7.1.1 through 11.7.1.3.

11.7.3 Non-Recoverable Costs. The parties agree that the **City** will have no liability for the following items and the **Contractor** agrees it shall make no claim for the following items:

- 11.7.3.1 Profit, or loss of anticipated or unanticipated profit, except as provided in Article 11.7.1.9;
- 11.7.3.2 Consequential damages, including, but not limited to, construction or bridge loans or interest paid on such loans, loss of bonding capacity, bidding opportunities, or interest in investment, or any resulting insolvency;
- 11.7.3.3 Indirect costs or expenses of any nature except those included in Article 11.7.1;
- 11.7.3.4 Direct or indirect costs attributable to performance of **Work** where the **Contractor**, because of situations or conditions within its control, has not progressed the **Work** in a satisfactory manner; and
- 11.7.3.5 Attorneys' fees and dispute and claims preparation expenses.

- 11.8 Any claims for delay under this Article 11 are not subject to the jurisdiction of the Contract Dispute Resolution Board pursuant to the dispute resolution process set forth in Article 27.
- 11.9 Any compensation provided to the **Contractor** in accordance with this Article 11 will be made pursuant to a claim filed with the **Comptroller**. Nothing in this Article 11 extends the time for the **Contractor** to file an action with respect to a claim within six months after **Substantial Completion** pursuant to Article 56.

ARTICLE 12. COORDINATION WITH OTHER CONTRACTORS

12.1 During the progress of the **Work**, **Other Contractors** may be engaged in performing other work or may be awarded other contracts for additional work on this **Project**. In that event, the **Contractor** shall coordinate the **Work** to be done hereunder with the work of such **Other Contractors** and the **Contractor** shall fully cooperate with such **Other Contractors** and carefully fit its own **Work** to that provided under other contracts as may be directed by the **Engineer**. The **Contractor** shall not commit or permit any act which will interfere with the performance of work by any **Other Contractors**.

12.2 If the **Engineer** determines that the **Contractor** is failing to coordinate its **Work** with the work of **Other Contractors** as the **Engineer** has directed, then the **Commissioner** shall have the right to withhold any payments otherwise due hereunder until the **Contractor** completely complies with the **Engineer's** directions.

12.3 The **Contractor** shall notify the **Engineer** in writing if any **Other Contractor** on this **Project** is failing to coordinate its work with the **Work** of this **Contract**. If the **Engineer** finds such charges to be true, the **Engineer** shall promptly issue such directions to the **Other Contractor** with respect thereto as the situation may require. The **City** shall not, however, be liable for any damages suffered by any **Other Contractor's** failure to coordinate its work with the **Work** of this **Contract** or by reason of the **Other Contractor's** failure to promptly comply with the directions so issued by the **Engineer**, or by reason of any **Other Contractor's** default in performance, it being understood that the **City** does not guarantee the responsibility or continued efficiency of any contractor. The **Contractor** agrees to make no claim against the **City** for any damages relating to or arising out of any directions issued by the **Engineer** pursuant to this Article 12 (including but not limited to the failure of any **Other Contractor** to comply or promptly comply with such directions), or the failure of any **Other Contractor** to coordinate its work, or the default in performance of any **Other Contractor**.

12.4 The **Contractor** shall indemnify and hold the **City** harmless from any and all claims or judgments for damages and from costs and expenses to which the **City** may be subjected or which it may suffer or incur by reason of the **Contractor's** failure to comply with the **Engineer's** directions promptly; and the **Comptroller** shall have the right to exercise the powers reserved in Article 23 with respect to any claims which may be made for damages due to the **Contractor's** failure to comply with the **Engineer's** directions promptly. Insofar as the facts and **Law** relating to any claim would preclude the **City** from being completely indemnified by the **Contractor**, the **City** shall be partially indemnified by the **Contractor** to the fullest extent provided by **Law**.

12.5 Should the **Contractor** sustain any damage through any act or omission of any **Other Contractor** having a contract with the **City** for the performance of work upon the **Site** or of work which may be necessary to be performed for the proper prosecution of the **Work** to be performed hereunder, or through any act or omission of a subcontractor of such **Other Contractor**, the **Contractor** shall have no claim against the **City** for such damage, but shall have a right to recover such damage from the **Other**

Contractor under the provision similar to the following provisions which apply to this **Contract** and have been or will be inserted in the contracts with such **Other Contractors**:

12.5.1 Should any **Other Contractor** having or who shall hereafter have a contract with the **City** for the performance of work upon the **Site** sustain any damage through any act or omission of the **Contractor** hereunder or through any act or omission of any **Subcontractor** of the **Contractor**, the **Contractor** agrees to reimburse such **Other Contractor** for all such damages and to defend at its own expense any action based upon such claim and if any judgment or claim (even if the allegations of the action are without merit) against the **City** shall be allowed the **Contractor** shall pay or satisfy such judgment or claim and pay all costs and expenses in connection therewith and agrees to indemnify and hold the **City** harmless from all such claims. Insofar as the facts and **Law** relating to any claim would preclude the **City** from being completely indemnified by the **Contractor**, the **City** shall be partially indemnified by the **Contractor** to the fullest extent provided by **Law**.

12.6 The **City's** right to indemnification hereunder shall in no way be diminished, waived or discharged by its recourse to assessment of liquidated damages as provided in Article 15, or by the exercise of any other remedy provided for by **Contract** or by **Law**.

ARTICLE 13. EXTENSION OF TIME FOR PERFORMANCE

13.1 If performance by the **Contractor** is delayed for a reason set forth in Article 13.3, the **Contractor** may be allowed a reasonable extension of time in conformance with this Article 13 and the **PPB Rules**.

13.2 Any extension of time may be granted only by the **ACCO** or by the Board for the Extension of Time (hereafter "Board") (as set forth below) upon written application by the **Contractor**.

13.3 Grounds for Extension: If such application is made, the **Contractor** shall be entitled to an extension of time for delay in completion of the **Work** caused solely:

13.3.1 By the acts or omissions of the **City**, its officials, agents or employees; or

13.3.2 By the act or omissions of **Other Contractors** on this **Project**; or

13.3.3 By supervening conditions entirely beyond the control of either party hereto (such as, but not limited to, acts of God or the public enemy, excessive inclement weather, war or other national emergency making performance temporarily impossible or illegal, or strikes or labor disputes not brought about by any act or omission of the **Contractor**).

13.3.4 The **Contractor** shall, however, be entitled to an extension of time for such causes only for the number of **Days** of delay which the **ACCO** or the Board may determine to be due solely to such causes, and then only if the **Contractor** shall have strictly complied with all of the requirements of Articles 9 and 10.

13.4 The **Contractor** shall not be entitled to receive a separate extension of time for each of several causes of delay operating concurrently, but, if at all, only for the actual period of delay in completion of the **Work** as determined by the **ACCO** or the Board, irrespective of the number of causes contributing to produce such delay. If one of several causes of delay operating concurrently results from any act, fault or omission of the **Contractor** or of its **Subcontractors** or **Materialmen**, and would of itself (irrespective

of the concurrent causes) have delayed the **Work**, no extension of time will be allowed for the period of delay resulting from such act, fault or omission.

13.5 The determination made by the **ACCO** or the Board on an application for an extension of time shall be binding and conclusive on the **Contractor**.

13.6 The **ACCO** or the Board acting entirely within their discretion may grant an application for an extension of time for causes of delay other than those herein referred.

13.7 Permitting the **Contractor** to continue with the **Work** after the time fixed for its completion has expired, or after the time to which such completion may have been extended has expired, or the making of any payment to the **Contractor** after such time, shall in no way operate as a waiver on the part of the **City** of any of its rights under this **Contract**.

13.8 Application for Extension of Time:

13.8.1 Before the **Contractor's** time extension request will be considered, the **Contractor** shall notify the **ACCO** of the condition which allegedly has caused or is causing the delay, and shall submit a written application to the **ACCO** identifying:

13.8.1(a) The **Contractor**; the registration number; and **Project** description;

13.8.1(b) Liquidated damage assessment rate, as specified in the **Contract**;

13.8.1(c) Original total bid price;

13.8.1(d) The original **Contract** start date and completion date;

13.8.1(e) Any previous time extensions granted (number and duration); and

13.8.1(f) The extension of time requested.

13.8.2 In addition, the application for extension of time shall set forth in detail:

13.8.2(a) The nature of each alleged cause of delay in completing the **Work**;

13.8.2(b) The date upon which each such cause of delay began and ended and the number of **Days** attributable to each such cause;

13.8.2(c) A statement that the **Contractor** waives all claims except for those delineated in the application, and the particulars of any claims which the **Contractor** does not agree to waive. For time extensions for **Substantial Completion** and final completion payments, the application shall include a detailed statement of the dollar amounts of each element of claim item reserved; and

13.8.2(d) A statement indicating the **Contractor's** understanding that the time extension is granted only for purposes of permitting continuation of **Contract** performance and payment for **Work** performed and that the **City** retains its right to conduct an investigation and assess liquidated damages as appropriate in the future.

13.9 Analysis and Approval of Time Extensions:

13.9.1 For time extensions for partial payments, a written determination shall be made by the **ACCO** who may, for good and sufficient cause, extend the time for the performance of the **Contract** as follows:

13.9.1(a) If the **Work** is to be completed within six (6) months, the time for performance may be extended for sixty (60) **Days**;

13.9.1(b) If the **Work** is to be completed within less than one (1) year but more than six (6) months, an extension of ninety (90) **Days** may be granted;

13.9.1(c) If the **Contract** period exceeds one (1) year, besides the extension granted in Article 13.9.1(b), an additional thirty (30) **Days** may be granted for each multiple of six (6) months involved beyond the one (1) year period; or

13.9.1(d) If exceptional circumstances exist, the **ACCO** may extend the time for performance beyond the extensions in Articles 13.9.1(a), 13.9.1(b), and 13.9.1(c). In that event, the **ACCO** shall file with the Mayor's Office of Contract Services a written explanation of the exceptional circumstances.

13.9.2 For extensions of time for **Substantial Completion** and final completion payments, the **Engineer**, in consultation with the **ACCO**, shall prepare a written analysis of the delay (including a preliminary determination of the causes of delay, the beginning and end dates for each such cause of delay, and whether the delays are excusable under the terms of this **Contract**). The report shall be subject to review by and approval of the Board, which shall have authority to question its analysis and determinations and request additional facts or documentation. The report as reviewed and made final by the Board shall be made a part of the **Agency** contract file. Neither the report itself nor anything contained therein shall operate as a waiver or release of any claim the **City** may have against the **Contractor** for either actual or liquidated damages.

13.9.3 Approval Mechanism for Time Extensions for **Substantial Completion** or Final Completion Payments: An extension shall be granted only with the approval of the Board which is comprised of the **ACCO** of the **Agency**, the **City** Corporation Counsel, and the **Comptroller**, or their authorized representatives.

13.9.4 Neither the granting of any application for an extension of time to the **Contractor** or any **Other Contractor** on this **Project** nor the papers, records or reports related to any application for or grant of an extension of time or determination related thereto shall be referred to or offered in evidence by the **Contractor** or its attorneys in any action or proceeding.

13.10 No Damage for Delay: The **Contractor** agrees to make no claim for damages for delay in the performance of this **Contract** occasioned by any act or omission to act of the **City** or any of its representatives, except as provided for in Article 11.

ARTICLE 14. COMPLETION AND FINAL ACCEPTANCE OF THE WORK

14.1 Date for **Substantial Completion**: The **Contractor** shall substantially complete the **Work** within the time fixed in Schedule A of the General Conditions, or within the time to which such **Substantial Completion** may be extended.

14.2 Determining the Date of **Substantial Completion**: The **Work** will be deemed to be substantially complete when the two conditions set forth below have been met.

14.2.1 Inspection: The **Engineer** or **Resident Engineer**, as applicable, has inspected the **Work** and has made a written determination that it is substantially complete.

14.2.2 Approval of **Final Approved Punch List** and Date for **Final Acceptance**: Following inspection of the **Work**, the **Engineer/Resident Engineer** shall furnish the **Contractor** with a final punch list, specifying all items of **Work** to be completed and proposing dates for the completion of each specified item of **Work**. The **Contractor** shall then submit in writing to the **Engineer/Resident Engineer** within ten (10) **Days** of the **Engineer/Resident Engineer** furnishing the final punch list either acceptance of the dates or proposed alternative dates for the completion of each specified item of **Work**. If the **Contractor** neither accepts the dates nor proposes alternative dates within ten (10) **Days**, the schedule proposed by the **Engineer/Resident Engineer** shall be deemed accepted. If the **Contractor** proposes alternative dates, then, within a reasonable time after receipt, the **Engineer/Resident Engineer**, in a written notification to the **Contractor**, shall approve the **Contractor's** completion dates or, if they are unable to agree, the **Engineer/Resident Engineer** shall establish dates for the completion of each item of **Work**. The latest completion date specified shall be the date for **Final Acceptance** of the **Work**.

14.3 Date of **Substantial Completion**. The date of approval of the **Final Approved Punch List**, shall be the date of **Substantial Completion**. The date of approval of the **Final Approved Punch List** shall be either (a) if the **Contractor** approves the final punch list and proposed dates for completion furnished by the **Engineer/Resident Engineer**, the date of the **Contractor's** approval; or (b) if the **Contractor** neither accepts the dates nor proposes alternative dates, ten (10) **Days** after the **Engineer/Resident Engineer** furnishes the **Contractor** with a final punch list and proposed dates for completion; or (c) if the **Contractor** proposes alternative dates, the date that the **Engineer/Resident Engineer** sends written notification to the **Contractor** either approving the **Contractor's** proposed alternative dates or establishing dates for the completion for each item of **Work**.

14.4 Determining the Date of **Final Acceptance**: The **Work** will be accepted as final and complete as of the date of the **Engineer's/Resident Engineer's** inspection if, upon such inspection, the **Engineer/Resident Engineer** finds that all items on the **Final Approved Punch List** are complete and no further **Work** remains to be done. The **Commissioner** will then issue a written determination of **Final Acceptance**.

14.5 Request for Inspection: Inspection of the **Work** by the **Engineer/Resident Engineer** for the purpose of **Substantial Completion** or **Final Acceptance** shall be made within fourteen (14) **Days** after receipt of the **Contractor's** written request therefor.

14.6 Request for Re-inspection: If upon inspection for the purpose of **Substantial Completion** or **Final Acceptance**, the **Engineer/Resident Engineer** determines that there are items of **Work** still to be performed, the **Contractor** shall promptly perform them and then request a re-inspection. If upon re-inspection, the **Engineer/Resident Engineer** determines that the **Work** is substantially complete or finally accepted, the date of such re-inspection shall be the date of **Substantial Completion** or **Final Acceptance**. Re-inspection by the **Engineer/Resident Engineer** shall be made within ten (10) **Days** after receipt of the **Contractor's** written request therefor.

14.7 Initiation of Inspection by the **Engineer/Resident Engineer**: If the **Contractor** does not request inspection or re-inspection of the **Work** for the purpose of **Substantial Completion** or **Final Acceptance**, the **Engineer/Resident Engineer** may initiate such inspection or re-inspection.

ARTICLE 15. LIQUIDATED DAMAGES

15.1 In the event the **Contractor** fails to substantially complete the **Work** within the time fixed for such **Substantial Completion** in Schedule A of the General Conditions, plus authorized time extensions, or if the **Contractor**, in the sole determination of the **Commissioner**, has abandoned the **Work**, the **Contractor** shall pay to the **City** the sum fixed in Schedule A of the General Conditions, for each and every **Day** that the time consumed in substantially completing the **Work** exceeds the time allowed therefor; which said sum, in view of the difficulty of accurately ascertaining the loss which the **City** will suffer by reason of delay in the **Substantial Completion** of the **Work** hereunder, is hereby fixed and agreed as the liquidated damages that the **City** will suffer by reason of such delay, and not as a penalty. This Article 15 shall also apply to the **Contractor** whether or not the **Contractor** is defaulted pursuant to Chapter X of this **Contract**. Neither the failure to assess liquidated damages nor the granting of any time extension shall operate as a waiver or release of any claim the **City** may have against the **Contractor** for either actual or liquidated damages.

15.2 Liquidated damages received hereunder are not intended to be nor shall they be treated as either a partial or full waiver or discharge of the **City's** right to indemnification, or the **Contractor's** obligation to indemnify the **City**, or to any other remedy provided for in this **Contract** or by **Law**.

15.3 The **Commissioner** may deduct and retain out of the monies which may become due hereunder, the amount of any such liquidated damages; and in case the amount which may become due hereunder shall be less than the amount of liquidated damages suffered by the **City**, the **Contractor** shall be liable to pay the difference.

ARTICLE 16. OCCUPATION OR USE PRIOR TO COMPLETION

16.1 Unless otherwise provided for in the **Specifications**, the **Commissioner** may take over, use, occupy or operate any part of the **Work** at any time prior to **Final Acceptance**, upon written notification to the **Contractor**. The **Engineer** or **Resident Engineer**, as applicable, shall inspect the part of the **Work** to be taken over, used, occupied, or operated, and will furnish the **Contractor** with a written statement of the **Work**, if any, which remains to be performed on such part. The **Contractor** shall not object to, nor interfere with, the **Commissioner's** decision to exercise the rights granted by Article 16. In the event the **Commissioner** takes over, uses, occupies, or operates any part of the **Work**:

16.1.1 the **Engineer/Resident Engineer** shall issue a written determination of **Substantial Completion** with respect to such part of the **Work**;

16.1.2 the **Contractor** shall be relieved of its absolute obligation to protect such part of the unfinished **Work** in accordance with Article 7;

16.1.3 the **Contractor's** guarantee on such part of the **Work** shall begin on the date of such use by the **City**; and;

16.1.4 the **Contractor** shall be entitled to a return of so much of the amount retained in accordance with Article 21 as it relates to such part of the **Work**, except so much thereof as may be retained under Articles 24 and 44.

CHAPTER IV: SUBCONTRACTS AND ASSIGNMENTS

ARTICLE 17. SUBCONTRACTS

17.1 The **Contractor** shall not make subcontracts totaling an amount more than the percentage of the total **Contract** price fixed in Schedule A of the General Conditions, without prior written permission from the **Commissioner**. All subcontracts made by the **Contractor** shall be in writing. No **Work** may be performed by a **Subcontractor** prior to the **Contractor** entering into a written subcontract with the **Subcontractor** and complying with the provisions of this Article 17.

17.2 Before making any subcontracts, the **Contractor** shall submit a written statement to the **Commissioner** giving the name and address of the proposed **Subcontractor**; the portion of the **Work** and materials which it is to perform and furnish; the cost of the subcontract; the VENDEX questionnaire if required; the proposed subcontract if requested by the **Commissioner**; and any other information tending to prove that the proposed **Subcontractor** has the necessary facilities, skill, integrity, past experience, and financial resources to perform the **Work** in accordance with the terms and conditions of this **Contract**.

17.3 In addition to the requirements in Article 17.2, **Contractor** is required to list the **Subcontractor** in the web based Subcontractor Reporting System through the City's Payee Information Portal (PIP), available at www.nyc.gov/pip.¹ For each **Subcontractor** listed, **Contractor** is required to provide the following information: maximum contract value, description of **Subcontractor's** Work, start and end date of the subcontract and identification of the **Subcontractor's** industry. Thereafter, **Contractor** will be required to report in the system the payments made to each **Subcontractor** within 30 days of making the payment. If any of the required information changes throughout the Term of the **Contract**, **Contractor** will be required to revise the information in the system.

Failure of the **Contractor** to list a **Subcontractor** and/or to report **Subcontractor** payments in a timely fashion may result in the **Commissioner** declaring the **Contractor** in default of the **Contract** and will subject **Contractor** to liquidated damages in the amount of \$100 per day for each day that the **Contractor** fails to identify a **Subcontractor** along with the required information about the **Subcontractor** and/or fails to report payments to a **Subcontractor**, beyond the time frames set forth herein or in the notice from the **City**. Article 15 shall govern the issue of liquidated damages.

17.4 If an approved **Subcontractor** elects to subcontract any portion of its subcontract, the proposed sub-subcontract shall be submitted in the same manner as directed above.

17.5 The **Commissioner** will notify the **Contractor** in writing whether the proposed **Subcontractor** is approved. If the proposed **Subcontractor** is not approved, the **Contractor** may submit another proposed **Subcontractor** unless the **Contractor** decides to do the **Work**. No **Subcontractor** shall be permitted to enter or perform any work on the **Site** unless approved.

17.6 Before entering into any subcontract hereunder, the **Contractor** shall provide the proposed **Subcontractor** with a complete copy of this document and inform the proposed **Subcontractor** fully and completely of all provisions and requirements of this **Contract** relating either directly or indirectly to the **Work** to be performed and the materials to be furnished under such subcontract, and every such

¹ In order to use the new system, a PIP account will be required. Detailed instructions on creating a PIP account and using the new system are also available at www.nyc.gov/pip. Additional assistance with PIP may be obtained by emailing the Financial Information Services Agency Help Desk at pip@fisa.nyc.gov.

Subcontractor shall expressly stipulate that all labor performed and materials furnished by the **Subcontractor** shall strictly comply with the requirements of this **Contract**.

17.7 Documents given to a prospective **Subcontractor** for the purpose of soliciting the **Subcontractor's** bid shall include either a copy of the bid cover or a separate information sheet setting forth the **Project** name, the **Contract** number (if available), the **Agency** (as noted in Article 2.1.6), and the **Project's** location.

17.8 The **Commissioner's** approval of a **Subcontractor** shall not relieve the **Contractor** of any of its responsibilities, duties, and liabilities hereunder. The **Contractor** shall be solely responsible to the **City** for the acts or defaults of its **Subcontractor** and of such **Subcontractor's** officers, agents, and employees, each of whom shall, for this purpose, be deemed to be the agent or employee of the **Contractor** to the extent of its subcontract.

17.9 If the **Subcontractor** fails to maintain the necessary facilities, skill, integrity, past experience, and financial resources (other than due to the **Contractor's** failure to make payments where required) to perform the **Work** in accordance with the terms and conditions of this **Contract**, the **Contractor** shall promptly notify the **Commissioner** and replace such **Subcontractor** with a newly approved **Subcontractor** in accordance with this Article 17.

17.10 The **Contractor** shall be responsible for ensuring that all **Subcontractors** performing **Work** at the **Site** maintain all insurance required by **Law**.

17.11 The **Contractor** shall promptly, upon request, file with the **Engineer** a conformed copy of the subcontract and its cost. The subcontract shall provide the following:

17.11.1 Payment to **Subcontractors**: The agreement between the **Contractor** and its **Subcontractor** shall contain the same terms and conditions as to method of payment for **Work**, labor, and materials, and as to retained percentages, as are contained in this **Contract**.

17.11.2 Prevailing Rate of Wages: The agreement between the **Contractor** and its **Subcontractor** shall include the prevailing wage rates and supplemental benefits to be paid in accordance with Labor Law Section 220.

17.11.3 Section 6-123 of the Administrative Code: Pursuant to the requirements of Section 6-123 of the Administrative Code, every agreement between the **Contractor** and a **Subcontractor** in excess of fifty thousand (\$50,000) dollars shall include a provision that the **Subcontractor** shall not engage in any unlawful discriminatory practice as defined in Title VIII of the Administrative Code (Section 8-101 *et seq.*).

17.11.4 All requirements required pursuant to federal and/or state grant agreement(s), if applicable to the **Work**.

17.12 The **Commissioner** may deduct from the amounts certified under this **Contract** to be due to the **Contractor**, the sum or sums due and owing from the **Contractor** to the **Subcontractors** according to the terms of the said subcontracts, and in case of dispute between the **Contractor** and its **Subcontractor**, or **Subcontractors**, as to the amount due and owing, the **Commissioner** may deduct and withhold from the amounts certified under this **Contract** to be due to the **Contractor** such sum or sums as may be claimed by such **Subcontractor**, or **Subcontractors**, in a sworn affidavit, to be due and owing until such time as such claim or claims shall have been finally resolved.

17.13 On contracts where performance bonds and payment bonds are executed, the **Contractor** shall include on each requisition for payment the following data: **Subcontractor's** name, value of the subcontract, total amount previously paid to **Subcontractor** for **Work** previously requisitioned, and the amount, including retainage, to be paid to the **Subcontractor** for **Work** included in the requisition.

17.14 On **Contracts** where performance bonds and payment bonds are not executed, the **Contractor** shall include with each requisition for payment submitted hereunder, a signed statement from each and every **Subcontractor** and/or **Materialman** for whom payment is requested in such requisition. Such signed statement shall be on the letterhead of the **Subcontractor** and/or **Materialman** for whom payment is requested and shall (i) verify that such **Subcontractor** and/or **Materialman** has been paid in full for all **Work** performed and/or material supplied to date, exclusive of any amount retained and any amount included on the current requisition, and (ii) state the total amount of retainage to date, exclusive of any amount retained on the current requisition.

ARTICLE 18. ASSIGNMENTS

18.1 The **Contractor** shall not assign, transfer, convey or otherwise dispose of this **Contract**, or the right to execute it, or the right, title or interest in or to it or any part thereof, or assign, by power of attorney or otherwise any of the monies due or to become due under this **Contract**, unless the previous written consent of the **Commissioner** shall first be obtained thereto, and the giving of any such consent to a particular assignment shall not dispense with the necessity of such consent to any further or other assignments.

18.2 Such assignment, transfer, conveyance or other disposition of this **Contract** shall not be valid until filed in the office of the **Commissioner** and the **Comptroller**, with the written consent of the **Commissioner** endorsed thereon or attached thereto.

18.3 Failure to obtain the previous written consent of the **Commissioner** to such an assignment, transfer, conveyance or other disposition, may result in the revocation and annulment of this **Contract**. The **City** shall thereupon be relieved and discharged from any further liability to the **Contractor**, its assignees, transferees or sublessees, who shall forfeit and lose all monies therefor earned under the **Contract**, except so much as may be required to pay the **Contractor's** employees.

18.4 The provisions of this clause shall not hinder, prevent, or affect an assignment by the **Contractor** for the benefit of its creditors made pursuant to the **Laws** of the State of New York.

18.5 This **Contract** may be assigned by the **City** to any corporation, agency or instrumentality having authority to accept such assignment.

CHAPTER V: CONTRACTOR'S SECURITY AND GUARANTEE

ARTICLE 19. SECURITY DEPOSIT

19.1 If performance and payment bonds are required, the **City** shall retain the bid security to ensure that the successful bidder executes the **Contract** and furnishes the required payment and performance security within ten (10) **Days** after notice of the award of the **Contract**. If the successful bidder fails to execute the **Contract** and furnish the required payment and performance security, the **City** shall retain such bid security as set forth in the Information for Bidders. If the successful bidder executes the

Contract and furnishes the required payment and performance security, the **City** shall return the bid security within a reasonable time after the furnishing of such bonds and execution of the **Contract** by the **City**.

19.2 If performance and payment bonds are not required, the bid security shall be retained by the **City** as security for the **Contractor's** faithful performance of the **Contract**. If partial payments are provided, the bid security will be returned to the **Contractor** after the sum retained under Article 21 equals the amount of the bid security, subject to other provisions of this **Contract**. If partial payments are not provided, the bid security will be released when final payment is certified by the **City** for payment.

19.3 If the **Contractor** is declared in default under Article 48 prior to the return of the deposit, or if any claim is made such as referred to in Article 23, the amount of such deposit, or so much thereof as the **Comptroller** may deem necessary, may be retained and then applied by the **Comptroller**:

19.3.1 To compensate the **City** for any expense, loss or damage suffered or incurred by reason of or resulting from such default, including the cost of re-letting and liquidated damages; or

19.3.2 To indemnify the **City** against any and all claims.

ARTICLE 20. PAYMENT GUARANTEE

20.1 On **Contracts** where one hundred (100%) percent performance bonds and payment bonds are executed, this Article 20 does not apply.

20.2 In the event the terms of this **Contract** do not require the **Contractor** to provide a payment bond or where the **Contract** does not require a payment bond for one hundred (100%) percent of the **Contract** price, the **City** shall, in accordance with the terms of this Article 20, guarantee payment of all lawful claims for:

20.2.1 Wages and compensation for labor performed and/or services rendered; and

20.2.2 Materials, equipment, and supplies provided, whether incorporated into the **Work** or not, when demands have been filed with the **City** as provided hereinafter by any person, firm, or corporation which furnished labor, material, equipment, supplies, or any combination thereof, in connection with the **Work** performed hereunder (hereinafter referred to as the "beneficiary") at the direction of the **City** or the **Contractor**.

20.3 The provisions of Article 20.2 are subject to the following limitations and conditions:

20.3.1 If the **Contractor** provides a payment bond for a value that is less than one hundred (100%) percent of the value of the **Contract Work**, the payment bond provided by the **Contractor** shall be primary (and non-contributing) to the payment guarantee provided under this Article 20.

20.3.2 The guarantee is made for the benefit of all beneficiaries as defined in Article 20.2 provided that those beneficiaries strictly adhere to the terms and conditions of Article 20.3.4 and 20.3.5.

20.3.3 Nothing in this Article 20 shall prevent a beneficiary providing labor, services or material for the **Work** from suing the **Contractor** for any amounts due and owing the beneficiary by the **Contractor**.

20.3.4 Every person who has furnished labor or material, to the **Contractor** or to a **Subcontractor** of the **Contractor**, in the prosecution of the **Work** and who has not been paid in full therefor before the expiration of a period of ninety (90) **Days** after the date on which the last of the labor was performed or material was furnished by him/her for which the claim is made, shall have the right to sue on this payment guarantee in his/her own name for the amount, or the balance thereof, unpaid at the time of commencement of the action; provided, however, that a person having a direct contractual relationship with a **Subcontractor** of the **Contractor** but no contractual relationship express or implied with the **Contractor** shall not have a right of action upon the guarantee unless he/she shall have given written notice to the **Contractor** within one hundred twenty (120) **Days** from the date on which the last of the labor was performed or the last of the material was furnished, for which his/her claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the material was furnished or for whom the labor was performed. The notice shall be served by delivering the same personally to the **Contractor** or by mailing the same by registered mail, postage prepaid, in an envelope addressed to the **Contractor** at any place where it maintains an office or conducts its business; provided, however, that where such notice is actually received by the **Contractor** by other means, such notice shall be deemed sufficient.

20.3.5 Except as provided in Labor Law Section 220-g, no action on this payment guarantee shall be commenced after the expiration of the one-year limitations period set forth in Section 137(4)(b) of the State Finance Law.

20.3.6 The **Contractor** shall promptly forward to the **City** any notice or demand received pursuant to Article 20.3.4. The **Contractor** shall inform the **City** of any defenses to the notice or demand and shall forward to the **City** any documents the **City** requests concerning the notice or demand.

20.3.7 All demands made against the **City** by a beneficiary of this payment guarantee shall be presented to the **Engineer** along with all written documentation concerning the demand which the **Engineer** deems reasonably appropriate or necessary, which may include, but shall not be limited to: the subcontract; any invoices presented to the **Contractor** for payment; the notarized statement of the beneficiary that the demand is due and payable, that a request for payment has been made of the **Contractor** and that the demand has not been paid by the **Contractor** within the time allowed for such payment by the subcontract; and copies of any correspondence between the beneficiary and the **Contractor** concerning such demand. The **City** shall notify the **Contractor** that a demand has been made. The **Contractor** shall inform the **City** of any defenses to the demand and shall forward to the **City** any documents the **City** requests concerning the demand.

20.3.8 The **City** shall make payment only if, after considering all defenses presented by the **Contractor**, it determines that the payment is due and owing to the beneficiary making the demand.

20.3.9 No beneficiary shall be entitled to interest from the **City**, or to any other costs, including, but not limited to, attorneys' fees, except to the extent required by State Finance Law Section 137.

20.4 Upon the receipt by the **City** of a demand pursuant to this Article 20, the **City** may withhold from any payment otherwise due and owing to the **Contractor** under this **Contract** an amount sufficient to satisfy the demand.

20.4.1 In the event the **City** determines that the demand is valid, the **City** shall notify the **Contractor** of such determination and the amount thereof and direct the **Contractor** to immediately pay such amount to the beneficiary. In the event the **Contractor**, within seven (7) **Days** of receipt of such notification from the **City**, fails to pay the beneficiary, such failure shall constitute an automatic and irrevocable assignment of payment by the **Contractor** to the beneficiary for the amount of the demand determined by the **City** to be valid. The **Contractor**, without further notification or other process, hereby gives its unconditional consent to such assignment of payment to the beneficiary and authorizes the **City**, on its behalf, to take all necessary actions to implement such assignment of payment, including without limitation the execution of any instrument or documentation necessary to effectuate such assignment.

20.4.2 In the event that the amount otherwise due and owing to the **Contractor** by the **City** is insufficient to satisfy such demand, the **City** may, at its option, require payment from the **Contractor** of an amount sufficient to cover such demand and exercise any other right to require or recover payment which the **City** may have under **Law** or **Contract**.

20.4.3 In the event the **City** determines that the demand is invalid, any amount withheld pending the **City's** review of such demand shall be paid to the **Contractor**; provided, however, no lien has been filed. In the event a claim or an action has been filed, the terms and conditions set forth in Article 23 shall apply. In the event a lien has been filed, the parties will be governed by the provisions of the Lien Law of the State of New York.

20.5 The provisions of this Article 20 shall not prevent the **City** and the **Contractor** from resolving disputes in accordance with the **PPB** Rules, where applicable.

20.6 In the event the **City** determines that the beneficiary is entitled to payment pursuant to this Article 20, such determination and any defenses and counterclaims raised by the **Contractor** shall be taken into account in evaluating the **Contractor's** performance.

20.7 Nothing in this Article 20 shall relieve the **Contractor** of the obligation to pay the claims of all persons with valid and lawful claims against the **Contractor** relating to the **Work**.

20.8 The **Contractor** shall not require any performance, payment or other bonds of any **Subcontractor** if this **Contract** does not require such bonds of the **Contractor**.

20.9 The payment guarantee made pursuant to this Article 20 shall be construed in a manner consistent with Section 137 of the State Finance Law and shall afford to persons furnishing labor or materials to the **Contractor** or its **Subcontractors** in the prosecution of the **Work** under this **Contract** all of the rights and remedies afforded to such persons by such section, including but not limited to, the right to commence an action against the **City** on the payment guarantee provided by this Article 20 within the one-year limitations period set forth in Section 137(4)(b).

ARTICLE 21. RETAINED PERCENTAGE

21.1 If this **Contract** requires one hundred (100%) percent performance and payment security, then as further security for the faithful performance of this **Contract**, the **Commissioner** shall deduct, and

retain until the substantial completion of the **Work**, five (5%) percent of the value of **Work** certified for payment in each partial payment voucher.

21.2 If this **Contract** does not require one hundred (100%) percent performance and payment security and if the price for which this **Contract** was awarded does not exceed one million (\$1,000,000) dollars, then as further security for the faithful performance of this **Contract**, the **Commissioner** shall deduct, and retain until the substantial completion of the **Work**, five (5%) percent of the value of **Work** certified for payment in each partial payment voucher.

21.3 If this **Contract** does not require one hundred (100%) percent performance and payment security and if the price for which this **Contract** was awarded exceeds one million (\$1,000,000) dollars, then as further security for the faithful performance of this **Contract**, the **Commissioner** shall deduct, and retain until the substantial completion of the **Work**, up to ten (10%) percent of the value of **Work** certified for payment in each partial payment voucher. The percentage to be retained is set forth in Schedule A of the General Conditions.

ARTICLE 22. INSURANCE

22.1 Types of Insurance: The **Contractor** shall procure and maintain the following types of insurance if, and as indicated, in Schedule A of the General Conditions (with the minimum limits and special conditions specified in Schedule A). Such insurance shall be maintained from the date the **Contractor** is required to provide Proof of Insurance pursuant to Article 22.3.1 through the date of completion of all required **Work** (including punch list work as certified in writing by the **Resident Engineer**), except for insurance required pursuant to Article 22.1.4, which may terminate upon **Substantial Completion** of the **Contract**. All insurance shall meet the requirements set forth in this Article 22. Wherever this Article requires that insurance coverage be “at least as broad” as a specified form (including all ISO forms), there is no obligation that the form itself be used, provided that the **Contractor** can demonstrate that the alternative form or endorsement contained in its policy provides coverage at least as broad as the specified form.

22.1.1 Commercial General Liability Insurance: The **Contractor** shall provide Commercial General Liability Insurance covering claims for property damage and/or bodily injury, including death, which may arise from any of the operations under this **Contract**. Coverage under this insurance shall be at least as broad as that provided by the latest edition of Insurance Services Office (“ISO”) Form CG 0001. Such insurance shall be “occurrence” based rather than “claims-made” and include, without limitation, the following types of coverage: premises operations; products and completed operations; contractual liability (including the tort liability of another assumed in a contract); broad form property damage; independent contractors; explosion, collapse and underground (XCU); construction means and methods; and incidental malpractice. Such insurance shall contain a “per project” aggregate limit, as specified in Schedule A, that applies separately to operations under this **Contract**.

22.1.1(a) Such Commercial General Liability Insurance shall name the **City** as an Additional Insured. Coverage for the City shall specifically include the **City’s** officials and employees, be at least as broad as the latest edition of ISO Form CG 20 10 and provide completed operations coverage at least as broad as the latest edition of ISO Form CG 20 37.

22.1.1(b) Such Commercial General Liability Insurance shall name all other entities designated as additional insureds in Schedule A but only for claims arising from the

Contractor's operations under this **Contract**, with coverage at least as broad as the latest edition of ISO Form CG 20 26.

22.1.1(c) If the **Work** requires a permit from the Department of Buildings pursuant to 1 RCNY Section 101-08, the **Contractor** shall provide Commercial General Liability Insurance with limits of at least those required by 1 RCNY section 101-08 or greater limits required by the Agency in accordance with Schedule A. If the **Work** does not require such a permit, the minimum limits shall be those provided for in Schedule A.

22.1.1(d) If any of the **Work** includes repair of a waterborne vessel owned by or to be delivered to the **City**, such Commercial General Liability shall include, or be endorsed to include, Ship Repairer's Legal Liability Coverage to protect against, without limitation, liability arising from navigation of such vessels prior to delivery to and acceptance by the **City**.

22.1.2 Workers' Compensation Insurance, Employers' Liability Insurance, and Disability Benefits Insurance: The **Contractor** shall provide, and shall cause its **Subcontractors** to provide, Workers Compensation Insurance, Employers' Liability Insurance, and Disability Benefits Insurance in accordance with the **Laws** of the State of New York on behalf of all employees providing services under this **Contract** (except for those employees, if any, for which the **Laws** require insurance only pursuant to Article 22.1.3).

22.1.3 United States Longshoremen's and Harbor Workers Act and/or Jones Act Insurance: If specified in Schedule A of the General Conditions or if required by **Law**, the **Contractor** shall provide insurance in accordance with the United States Longshoremen's and Harbor Workers Act and/or the Jones Act, on behalf of all qualifying employees providing services under this **Contract**.

22.1.4 Builders Risk Insurance: If specified in Schedule A of the General Conditions, the **Contractor** shall provide Builders Risk Insurance on a completed value form for the total value of the **Work** through **Substantial Completion** of the **Work** in its entirety. Such insurance shall be provided on an All Risk basis and include coverage, without limitation, for windstorm (including named windstorm), storm surge, flood and earth movement. Unless waived by the **Commissioner**, it shall include coverage for ordinance and law, demolition and increased costs of construction, debris removal, pollutant clean up and removal, and expediting costs. Such insurance shall cover, without limitation, (a) all buildings and/or structures involved in the **Work**, as well as temporary structures at the **Site**, and (b) any property that is intended to become a permanent part of such building or structure, whether such property is on the **Site**, in transit or in temporary storage. Policies shall name the **Contractor** as Named Insured and list the **City** as both an Additional Insured and a Loss Payee as its interest may appear.

22.1.4(a) Policies of such insurance shall specify that, in the event a loss occurs at an occupied facility, occupancy of such facility is permitted without the consent of the issuing insurance company.

22.1.4(b) Such insurance may be provided through an Installation Floater, at the **Contractor's** option, if it otherwise conforms with the requirements of this Article 22.1.4.

22.1.5 Commercial Automobile Liability Insurance: The **Contractor** shall provide Commercial Automobile Liability Insurance for liability arising out of ownership,

maintenance or use of any owned (if any), non-owned and hired vehicles to be used in connection with this **Contract**. Coverage shall be at least as broad as the latest edition of ISO Form CA0001. If vehicles are used for transporting hazardous materials, the Automobile Liability Insurance shall be endorsed to provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90.

22.1.6 Contractors Pollution Liability Insurance: If specified in Schedule A of the General Conditions, the **Contractor** shall maintain, or cause the **Subcontractor** doing such **Work** to maintain, Contractors Pollution Liability Insurance covering bodily injury and property damage. Such insurance shall provide coverage for actual, alleged or threatened emission, discharge, dispersal, seepage, release or escape of pollutants (including asbestos), including any loss, cost or expense incurred as a result of any cleanup of pollutants (including asbestos) or in the investigation, settlement or defense of any claim, action, or proceedings arising from the operations under this **Contract**. Such insurance shall be in the **Contractor's** name and list the **City** as an Additional Insured and any other entity specified in Schedule A. Coverage shall include, without limitation, (a) loss of use of damaged property or of property that has not been physically injured, (b) transportation, and (c) non-owned disposal sites.

22.1.6(a) Coverage for the **City** as Additional Insured shall specifically include the **City's** officials and employees and be at least as broad as provided to the **Contractor** for this **Project**.

22.1.6(b) If such insurance is written on a claims-made policy, such policy shall have a retroactive date on or before the effective date of this **Contract**, and continuous coverage shall be maintained, or an extended discovery period exercised, for a period of not less than three (3) years from the time the **Work** under this **Contract** is completed.

22.1.7 Marine Insurance:

22.1.7(a) Marine Protection and Indemnity Insurance: If specified in Schedule A of the General Conditions or if the **Contractor** engages in marine operations in the execution of any part of the **Work**, the **Contractor** shall maintain, or cause the **Subcontractor** doing such **Work** to maintain, Marine Protection and Indemnity Insurance with coverage at least as broad as Form SP-23. The insurance shall provide coverage for the **Contractor** or **Subcontractor** (whichever is doing this **Work**) and for the **City** (together with its officials and employees) and any other entity specified in Schedule A as an Additional Insured for bodily injury and property damage arising from marine operations under this **Contract**. Coverage shall include, without limitation, injury or death of crew members (if not fully provided through other insurance), removal of wreck, damage to piers, wharves and other fixed or floating objects and loss of or damage to any other vessel or craft, or to property on such other vessel or craft.

22.1.7(b) Hull and Machinery Insurance: If specified in Schedule A of the General Conditions or if the **Contractor** engages in marine operations in the execution of any part of the **Work**, the **Contractor** shall maintain, or cause the **Subcontractor** doing such **Work** to maintain, Hull and Machinery Insurance with coverage for the **Contractor** or **Subcontractor** (whichever is doing this **Work**) and for the **City** (together with its officials and employees) as Additional Insured at least as broad as the latest edition of American Institute Tug Form for all tugs used under this

Contract and Collision Liability at least as broad as the latest edition of American Institute Hull Clauses.

22.1.7(c) Marine Pollution Liability Insurance: If specified in Schedule A of the General Conditions or if the **Contractor** engages in marine operations in the execution of any part of the **Work**, the **Contractor** shall maintain, or cause the **Subcontractor** doing such Work to maintain, Marine Pollution Liability Insurance covering itself (or the Subcontractor doing such Work) as Named Insured and the **City** (together with its officials and employees) and any other entity specified in Schedule A as an Additional Insured. Coverage shall be at least as broad as that provided by the latest edition of Water Quality Insurance Syndicate Form and include, without limitation, liability arising from the discharge or substantial threat of a discharge of oil, or from the release or threatened release of a hazardous substance including injury to, or economic losses resulting from, the destruction of or damage to real property, personal property or natural resources.

22.1.8 The **Contractor** shall provide such other types of insurance, at such minimum limits and with such conditions, as are specified in Schedule A of the General Conditions.

22.2 General Requirements for Insurance Coverage and Policies:

22.2.1 All required insurance policies shall be maintained with companies that may lawfully issue the required policy and have an A.M. Best rating of at least A-/VII or a Standard and Poor's rating of at least A, unless prior written approval is obtained from the **City** Corporation Counsel.

22.2.2 The **Contractor** shall be solely responsible for the payment of all premiums for all required policies and all deductibles and self-insured retentions to which such policies are subject, whether or not the **City** is an insured under the policy.

22.2.3 In his/her sole discretion, the **Commissioner** may, subject to the approval of the **Comptroller** and the **City** Corporation Counsel, accept Letters of Credit and/or custodial accounts in lieu of required insurance.

22.2.4 The **City's** limits of coverage for all types of insurance required pursuant to Schedule A of the General Conditions shall be the greater of (i) the minimum limits set forth in Schedule A or (ii) the limits provided to the **Contractor** as Named Insured under all primary, excess, and umbrella policies of that type of coverage.

22.2.5 The **Contractor** may satisfy its insurance obligations under this Article 22 through primary policies or a combination of primary and excess/umbrella policies, so long as all policies provide the scope of coverage required herein.

22.2.6 Policies of insurance provided pursuant to this Article 22 shall be primary and non-contributing to any insurance or self-insurance maintained by the **City**.

22.3 Proof of Insurance:

22.3.1 For all types of insurance required by Article 22.1 and Schedule A, except for insurance required by Articles 22.1.4 and 22.1.7, the **Contractor** shall file proof of insurance in accordance with this Article 22.3 within ten (10) **Days** of award. For insurance

provided pursuant to Articles 22.1.4 and 22.1.7, proof shall be filed by a date specified by the **Commissioner** or ten (10) **Days** prior to the commencement of the portion of the **Work** covered by such policy, whichever is earlier.

22.3.2 For Workers' Compensation Insurance provided pursuant to Article 22.1.2, the **Contractor** shall submit one of the following forms: C-105.2 Certificate of Workers' Compensation Insurance; U-26.3 - State Insurance Fund Certificate of Workers' Compensation Insurance; Request for WC/DB Exemption (Form CE-200); equivalent or successor forms used by the New York State Workers' Compensation Board; or other proof of insurance in a form acceptable to the **Commissioner**. For Disability Benefits Insurance provided pursuant to Article 22.1.2, the Contractor shall submit DB-120.1 - Certificate Of Insurance Coverage Under The NYS Disability Benefits Law, Request for WC/DB Exemption (Form CE-200); equivalent or successor forms used by the New York State Workers' Compensation Board; or other proof of insurance in a form acceptable to the **Commissioner**. ACORD forms are not acceptable.

22.3.3 For policies provided pursuant to all of Article 22.1 other than Article 22.1.2, the **Contractor** shall submit one or more Certificates of Insurance on forms acceptable to the **Commissioner**. All such Certificates of Insurance shall certify (a) the issuance and effectiveness of such policies of insurance, each with the specified minimum limits (b) for insurance secured pursuant to Article 22.1.1 that the **City** and any other entity specified in Schedule A is an Additional Insured thereunder; (c) in the event insurance is required pursuant to Article 22.1.6 and/or Article 22.1.7, that the City is an Additional Insured thereunder; (d) the company code issued to the insurance company by the National Association of Insurance Commissioners (the NAIC number); and (e) the number assigned to the **Contract** by the **City**. All such Certificates of Insurance shall be accompanied by either a duly executed "Certification by Insurance Broker or Agent" in the form contained in Part III of Schedule A or copies of all policies referenced in such Certificate of Insurance as certified by an authorized representative of the issuing insurance carrier. If any policy is not available at the time of submission, certified binders may be submitted until such time as the policy is available, at which time a certified copy of the policy shall be submitted.

22.3.4 Documentation confirming renewals of insurance shall be submitted to the **Commissioner** prior to the expiration date of coverage of policies required under this **Contract**. Such proofs of insurance shall comply with the requirements of Articles 22.3.2 and 22.3.3.

22.3.5 The **Contractor** shall be obligated to provide the **City** with a copy of any policy of insurance provided pursuant to this Article 22 upon the demand for such policy by the **Commissioner** or the **City** Corporation Counsel.

22.4 Operations of the **Contractor**:

22.4.1 The **Contractor** shall not commence the **Work** unless and until all required certificates have been submitted to and accepted by the **Commissioner**. Acceptance by the **Commissioner** of a certificate does not excuse the **Contractor** from securing insurance consistent with all provisions of this Article 22 or of any liability arising from its failure to do so.

22.4.2 The **Contractor** shall be responsible for providing continuous insurance coverage in the manner, form, and limits required by this **Contract** and shall be authorized to perform **Work** only during the effective period of all required coverage.

22.4.3 In the event that any of the required insurance policies lapse, are revoked, suspended or otherwise terminated, for whatever cause, the **Contractor** shall immediately stop all **Work**, and shall not recommence **Work** until authorized in writing to do so by the **Commissioner**. Upon quitting the **Site**, except as otherwise directed by the **Commissioner**, the **Contractor** shall leave all plant, materials, equipment, tools, and supplies on the **Site**. **Contract** time shall continue to run during such periods and no extensions of time will be granted. The **Commissioner** may also declare the **Contractor** in default for failure to maintain required insurance.

22.4.4 In the event the **Contractor** receives notice, from an insurance company or other person, that any insurance policy required under this Article 22 shall be cancelled or terminated (or has been cancelled or terminated) for any reason, the **Contractor** shall immediately forward a copy of such notice to both the **Commissioner** and the New York City Comptroller, attn: Office of Contract Administration, Municipal Building, One Centre Street, room 1005, New York, New York 10007. Notwithstanding the foregoing, the **Contractor** shall ensure that there is no interruption in any of the insurance coverage required under this Article 22.

22.4.5 Where notice of loss, damage, occurrence, accident, claim or suit is required under an insurance policy maintained in accordance with this Article 22, the **Contractor** shall notify in writing all insurance carriers that issued potentially responsive policies of any such event relating to any operations under this **Contract** (including notice to Commercial General Liability insurance carriers for events relating to the **Contractor**'s own employees) no later than 20 days after such event. For any policy where the **City** is an Additional Insured, such notice shall expressly specify that "this notice is being given on behalf of the City of New York as Insured as well as the Named Insured." Such notice shall also contain the following information: the number of the insurance policy, the name of the named insured, the date and location of the damage, occurrence, or accident, and the identity of the persons or things injured, damaged or lost. The **Contractor** shall simultaneously send a copy of such notice to the City of New York c/o Insurance Claims Specialist, Affirmative Litigation Division, New York City Law Department, 100 Church Street, New York, New York 10007.

22.4.6 In the event of any loss, accident, claim, action, or other event that does or can give rise to a claim under any insurance policy required under this Article 22, the **Contractor** shall at all times fully cooperate with the **City** with regard to such potential or actual claim.

22.5 **Subcontractor Insurance:** In the event the **Contractor** requires any **Subcontractor** to procure insurance with regard to any operations under this **Contract** and requires such **Subcontractor** to name the **Contractor** as an **Additional Insured** thereunder, the **Contractor** shall ensure that the **Subcontractor** name the **City**, including its officials and employees, as an Additional Insured with coverage at least as broad as the most recent edition of ISO Form CG 20 26.

22.6 Wherever reference is made in Article 7 or this Article 22 to documents to be sent to the **Commissioner** (e.g., notices, filings, or submissions), such documents shall be sent to the address set forth in Schedule A of the General Conditions. In the event no address is set forth in Schedule A, such documents are to be sent to the **Commissioner**'s address as provided elsewhere in this **Contract**.

22.7 Apart from damages or losses covered by insurance provided pursuant to Articles 22.1.2, 22.1.3, or 22.1.5, the **Contractor** waives all rights against the **City**, including its officials and employees, for any damages or losses that are covered under any insurance required under this Article 22 (whether or

not such insurance is actually procured or claims are paid thereunder) or any other insurance applicable to the operations of the **Contractor** and/or its employees, agents, or **Subcontractors**.

22.8 In the event the **Contractor** utilizes a self-insurance program to satisfy any of the requirements of this Article 22, the **Contractor** shall ensure that any such self-insurance program provides the **City** with all rights that would be provided by traditional insurance under this Article 22, including but not limited to the defense and indemnification obligations that insurers are required to undertake in liability policies.

22.9 Materiality/Non-Waiver: The **Contractor's** failure to secure policies in complete conformity with this Article 22, or to give an insurance company timely notice of any sort required in this **Contract** or to do anything else required by this Article 22 shall constitute a material breach of this **Contract**. Such breach shall not be waived or otherwise excused by any action or inaction by the **City** at any time.

22.10 Pursuant to General Municipal Law Section 108, this **Contract** shall be void and of no effect unless **Contractor** maintains Workers' Compensation Insurance for the term of this **Contract** to the extent required and in compliance with the New York State Workers' Compensation Law.

22.11 Other Remedies: Insurance coverage provided pursuant to this Article 22 or otherwise shall not relieve the **Contractor** of any liability under this **Contract**, nor shall it preclude the **City** from exercising any rights or taking such other actions available to it under any other provisions of this **Contract** or **Law**.

ARTICLE 23. MONEY RETAINED AGAINST CLAIMS

23.1 If any claim shall be made by any person or entity (including **Other Contractors** with the **City** on this **Project**) against the **City** or against the **Contractor** and the **City** for any of the following:

- (a) An alleged loss, damage, injury, theft or vandalism of any of the kinds referred to in Articles 7 and 12, plus the reasonable costs of defending the **City**, which in the opinion of the **Comptroller** may not be paid by an insurance company (for any reason whatsoever); or
- (b) An infringement of copyrights, patents or use of patented articles, tools, etc., as referred to in Article 57; or
- (c) Damage claimed to have been caused directly or indirectly by the failure of the **Contractor** to perform the **Work** in strict accordance with this **Contract**,

the amount of such claim, or so much thereof as the **Comptroller** may deem necessary, may be withheld by the **Comptroller**, as security against such claim, from any money due hereunder. The **Comptroller**, in his/her discretion, may permit the **Contractor** to substitute other satisfactory security in lieu of the monies so withheld.

23.2 If an action on such claim is timely commenced and the liability of the **City**, or the **Contractor**, or both, shall have been established therein by a final judgment of a court of competent jurisdiction, or if such claim shall have been admitted by the **Contractor** to be valid, the **Comptroller** shall pay such judgment or admitted claim out of the monies retained by the **Comptroller** under the provisions of this Article 23, and return the balance, if any, without interest, to the **Contractor**.

ARTICLE 24. MAINTENANCE AND GUARANTY

24.1 The **Contractor** shall promptly repair, replace, restore or rebuild, as the **Commissioner** may determine, any finished **Work** in which defects of materials or workmanship may appear or to which damage may occur because of such defects, during the one (1) year period subsequent to the date of **Substantial Completion** (or use and occupancy in accordance with Article 16), except where other periods of maintenance and guaranty are provided for in Schedule A.

24.2 As security for the faithful performance of its obligations hereunder, the **Contractor**, upon filing its requisition for payment on **Substantial Completion**, shall deposit with the **Commissioner** a sum equal to one (1%) percent of the price (or the amount fixed in Schedule A of the General Conditions) in cash or certified check upon a state or national bank and trust company or a check of such bank and trust company signed by a duly authorized officer thereof and drawn to the order of the **Comptroller**, or obligations of the **City**, which the **Comptroller** may approve as of equal value with the sum so required.

24.3 In lieu of the above, the **Contractor** may make such security payment to the **City** by authorizing the **Commissioner** in writing to deduct the amount from the **Substantial Completion** payment which shall be deemed the deposit required above.

24.4 If the **Contractor** has faithfully performed all of its obligations hereunder the **Commissioner** shall so certify to the **Comptroller** within five (5) **Days** after the expiration of one (1) year from the date of **Substantial Completion** and acceptance of the **Work** or within thirty (30) **Days** after the expiration of the guarantee period fixed in the **Specifications**. The security payment shall be repaid to the **Contractor** without interest within thirty (30) **Days** after certification by the **Commissioner** to the **Comptroller** that the **Contractor** has faithfully performed all of its obligations hereunder.

24.5 Notice by the **Commissioner** to the **Contractor** to repair, replace, rebuild or restore such defective or damaged **Work** shall be timely, pursuant to this article, if given not later than ten (10) **Days** subsequent to the expiration of the one (1) year period or other periods provided for herein.

24.6 If the **Contractor** shall fail to repair, replace, rebuild or restore such defective or damaged **Work** promptly after receiving such notice, the **Commissioner** shall have the right to have the **Work** done by others in the same manner as provided for in the completion of a defaulted **Contract**, under Article 51.

24.7 If the security payment so deposited is insufficient to cover the cost of such **Work**, the **Contractor** shall be liable to pay such deficiency on demand by the **Commissioner**.

24.8 The **Engineer's** certificate setting forth the fair and reasonable cost of repairing, replacing, rebuilding or restoring any damaged or defective **Work** when performed by one other than the **Contractor**, shall be binding and conclusive upon the **Contractor** as to the amount thereof.

24.9 The **Contractor** shall obtain all manufacturers' warranties and guaranties of all equipment and materials required by this **Contract** in the name of the **City** and shall deliver same to the **Commissioner**. All of the **City's** rights and title and interest in and to said manufacturers' warranties and guaranties may be assigned by the **City** to any subsequent purchasers of such equipment and materials or lessees of the premises into which the equipment and materials have been installed.

CHAPTER VI: CHANGES, EXTRA WORK, AND DOCUMENTATION OF CLAIM

ARTICLE 25. CHANGES

25.1 Changes may be made to this **Contract** only as duly authorized in writing by the **Commissioner** in accordance with the **Law** and this **Contract**. All such changes, modifications, and amendments will become a part of the **Contract**. **Work** so ordered shall be performed by the **Contractor**.

25.2 **Contract** changes will be made only for **Work** necessary to complete the **Work** included in the original scope of the **Contract** and/or for non-material changes to the scope of the **Contract**. Changes are not permitted for any material alteration in the scope of **Work** in the **Contract**.

25.3 The **Contractor** shall be entitled to a price adjustment for **Extra Work** performed pursuant to a written change order. Adjustments to price shall be computed in one or more of the following ways:

25.3.1 By applicable unit prices specified in the **Contract**; and/or

25.3.2 By agreement of a fixed price; and/or

25.3.3 By time and material records; and/or

25.3.4 In any other manner approved by the **CCPO**.

25.4 All payments for change orders are subject to pre-audit by the **Engineering Audit Officer** and may be post-audited by the **Comptroller** and/or the **Agency**.

ARTICLE 26. METHODS OF PAYMENT FOR OVERRUNS AND EXTRA WORK

26.1 Overrun of Unit Price Item: An overrun is any quantity of a unit price item which the **Contractor** is directed to provide which is in excess of one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule.

26.1.1 For any unit price item, the **Contractor** will be paid at the unit price bid for any quantity up to one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule. If during the progress of the **Work**, the actual quantity of any unit price item required to complete the **Work** approaches the estimated quantity for that item, and for any reason it appears that the actual quantity of any unit price item necessary to complete the **Work** will exceed the estimated quantity for that item by twenty-five (25%) percent, the **Contractor** shall immediately notify the **Engineer** of such anticipated overrun. The **Contractor** shall not be compensated for any quantity of a unit price item provided which is in excess of one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule without written authorization from the **Engineer**.

26.1.2 If the actual quantity of any unit price item necessary to complete the **Work** will exceed one hundred twenty five (125%) percent of the estimated quantity for that item set forth in the bid schedule, the **City** reserves the right and the **Contractor** agrees to negotiate a new unit price for such item. In no event shall such negotiated new unit price exceed the unit bid price. If the **City** and **Contractor** cannot agree on a new unit price, then the **City** shall order the **Contractor** and the **Contractor** agrees to provide additional quantities of

the item on the basis of time and material records for the actual and reasonable cost as determined under Article 26.2, but in no event at a unit price exceeding the unit price bid.

26.2 Extra Work: For **Extra Work** where payment is by agreement on a fixed price in accordance with Article 25.3.2, the price to be paid for such **Extra Work** shall be based on the fair and reasonable estimated cost of the items set forth below. For **Extra Work** where payment is based on time and material records in accordance with Article 25.3.3, the price to be paid for such **Extra Work** shall be the actual and reasonable cost of the items set forth below, calculated in accordance with the formula specified therein, if any.

26.2.1 Necessary materials (including transportation to the **Site**); plus

26.2.2 Necessary direct labor, including payroll taxes (subject to statutory wage caps) and supplemental benefits; plus

26.2.3 Sales and personal property taxes, if any, required to be paid on materials not incorporated into such **Extra Work**; plus

26.2.4 Reasonable rental value of **Contractor**-owned (or **Subcontractor**-owned, as applicable), necessary plant and equipment other than **Small Tools**, plus fuel/energy costs. Except for fuel costs for pick-up trucks which shall be reimbursed based on a consumption of five (5) gallons per shift, fuel costs shall be reimbursed based on actual costs or, in the absence of auditable documentation, the following fuel consumption formula per operating hour: $(.035) \times (\text{HP rating}) \times (\text{Fuel cost/gallon})$. Reasonable rental value is defined as the lower of either seventy-five percent of the monthly prorated rental rates established in "The AED Green Book, Rental Rates and Specifications for Construction Equipment" published by Equipment Watch (the "Green Book"), or seventy-five percent of the monthly prorated rental rates established in the "Rental Rate Blue Book for Construction Equipment" published by Equipment Watch (the "Blue Book") (the applicable Blue Book rate being for rental only without the addition of any operational costs listed in the Blue Book). The reasonable rental value is deemed to be inclusive of all operating costs except for fuel/energy consumption and equipment operator's wages/costs. For multiple shift utilization, reimbursement shall be calculated as follows: first shift shall be seventy-five (75%) percent of such rental rates; second shift shall be sixty (60%) percent of the first shift rate; and third shift shall be forty (40%) percent of the first shift rate. Equipment on standby shall be reimbursed at one-third (1/3) the prorated monthly rental rate. **Contractor**-owned (or **Subcontractor**-owned, as applicable) equipment includes equipment from rental companies affiliated with or controlled by the **Contractor** (or **Subcontractor**, as applicable), as determined by the **Commissioner**. In establishing cost reimbursement for non-operating **Contractor**-owned (or **Subcontractor**-owned, as applicable) equipment (scaffolding, sheeting systems, road plates, etc.), the **City** may restrict reimbursement to a purchase-salvage/life cycle basis if less than the computed rental costs; plus

26.2.5 Necessary installation and dismantling of such plant and equipment, including transportation to and from the **Site**, if any, provided that, in the case of non-**Contractor**-owned (or non-**Subcontractor**-owned, as applicable) equipment rented from a third party, the cost of installation and dismantling are not allowable if such costs are included in the rental rate; plus

26.2.6 Necessary fees charged by governmental entities; plus

26.2.7 Necessary construction-related service fees charged by non-governmental entities, such as landfill tipping fees; plus

26.2.8 Reasonable rental costs of non-**Contractor**-owned (or non-**Subcontractor**-owned, as applicable) necessary plant and equipment other than **Small Tools**, plus fuel/energy costs. Except for fuel costs for pick-up trucks which shall be reimbursed based on a consumption of five (5) gallons per shift, fuel costs shall be reimbursed based on actual costs or, in the absence of auditable documentation, the following fuel consumption formula per hour of operation: $(.035) \times (\text{HP rating}) \times (\text{Fuel cost/gallon})$. In lieu of renting, the **City** reserves the right to direct the purchase of non-operating equipment (scaffolding, sheeting systems, road plates, etc.), with payment on a purchase-salvage/life cycle basis, if less than the projected rental costs; plus

26.2.9 Workers' Compensation Insurance, and any insurance coverage expressly required by the **City** for the performance of the **Extra Work** which is different than the types of insurance required by Article 22 and Schedule A of the General Conditions. The cost of Workers' Compensation Insurance is subject to applicable payroll limitation caps and shall be based upon the carrier's Manual Rate for such insurance derived from the applicable class Loss Cost ("LC") and carrier's Lost Cost Multiplier ("LCM") approved by the New York State Department of Financial Services, and with the exception of experience rating, rate modifiers as promulgated by the New York Compensation Insurance Rating Board ("NYCIRB"); plus

26.2.10 Additional costs incurred as a result of the **Extra Work** for performance and payment bonds; plus

26.2.11 Twelve percent (12%) percent of the total of items in Articles 26.2.1 through 26.2.5 as compensation for overhead, except that no percentage for overhead will be allowed on **Payroll Taxes** or on the premium portion of overtime pay or on sales and personal property taxes. Overhead shall include without limitation, all costs and expenses in connection with administration, management superintendence, small tools, and insurance required by Schedule A of the General Conditions other than Workers' Compensation Insurance; plus

26.2.12 Ten (10%) percent of the total of items in Articles 26.2.1 through 26.2.5, plus the items in Article 26.2.11, as compensation for profit, except that no percentage for profit will be allowed on **Payroll Taxes** or on the premium portion of overtime pay or on sales and personal property taxes; plus

26.2.13 Five (5%) percent of the total of items in Articles 26.2.6 through 26.2.10 as compensation for overhead and profit.

26.3 Where the **Extra Work** is performed in whole or in part by other than the **Contractor's** own forces pursuant to Article 26.2, the **Contractor** shall be paid, subject to pre-audit by the **Engineering Audit Officer**, the cost of such **Work** computed in accordance with Article 26.2 above, plus an additional allowance of five (5%) percent to cover the **Contractor's** overhead and profit.

26.4 Where a change is ordered, involving both **Extra Work** and omitted or reduced **Contract Work**, the **Contract** price shall be adjusted, subject to pre-audit by the **EAO**, in an amount based on the difference between the cost of such **Extra Work** and of the omitted or reduced **Work**.

26.5 Where the **Contractor** and the **Commissioner** can agree upon a fixed price for **Extra Work** in accordance with Article 25.3.2 or another method of payment for **Extra Work** in accordance with

Article 25.3.4, or for **Extra Work** ordered in connection with omitted **Work**, such method, subject to pre-audit by the **EAO**, may, at the option of the **Commissioner**, be substituted for the cost plus a percentage method provided in Article 26.2; provided, however, that if the **Extra Work** is performed by a **Subcontractor**, the **Contractor** shall not be entitled to receive more than an additional allowance of five (5%) percent for overhead and profit over the cost of such **Subcontractor's Work** as computed in accordance with Article 26.2.

ARTICLE 27. RESOLUTION OF DISPUTES

27.1 All disputes between the **City** and the **Contractor** of the kind delineated in this Article 27.1 that arise under, or by virtue of, this **Contract** shall be finally resolved in accordance with the provisions of this Article 27 and the **PPB Rules**. This procedure for resolving all disputes of the kind delineated herein shall be the exclusive means of resolving any such disputes.

27.1.1 This Article 27 shall not apply to disputes concerning matters dealt with in other sections of the **PPB Rules**, or to disputes involving patents, copyrights, trademarks, or trade secrets (as interpreted by the courts of New York State) relating to proprietary rights in computer software.

27.1.2 This Article 27 shall apply only to disputes about the scope of **Work** delineated by the **Contract**, the interpretation of **Contract** documents, the amount to be paid for **Extra Work** or disputed work performed in connection with the **Contract**, the conformity of the **Contractor's Work** to the **Contract**, and the acceptability and quality of the **Contractor's Work**; such disputes arise when the **Engineer, Resident Engineer, Engineering Audit Officer**, or other designee of the **Commissioner** makes a determination with which the **Contractor** disagrees.

27.2 All determinations required by this Article 27 shall be made in writing clearly stated, with a reasoned explanation for the determination based on the information and evidence presented to the party making the determination. Failure to make such determination within the time required by this Article 27 shall be deemed a non-determination without prejudice that will allow application to the next level.

27.3 During such time as any dispute is being presented, heard, and considered pursuant to this Article 27, the **Contract** terms shall remain in force and the **Contractor** shall continue to perform **Work** as directed by the **ACCO** or the **Engineer**. Failure of the **Contractor** to continue **Work** as directed shall constitute a waiver by the **Contractor** of its claim.

27.4 Presentation of Disputes to **Commissioner**.

Notice of Dispute and Agency Response. The **Contractor** shall present its dispute in writing ("Notice of Dispute") to the **Commissioner** within thirty (30) Days of receiving written notice of the determination or action that is the subject of the dispute. This notice requirement shall not be read to replace any other notice requirements contained in the **Contract**. The Notice of Dispute shall include all the facts, evidence, documents, or other basis upon which the **Contractor** relies in support of its position, as well as a detailed computation demonstrating how any amount of money claimed by the **Contractor** in the dispute was arrived at. Within thirty (30) Days after receipt of the detailed written submission comprising the complete Notice of Dispute, the **Engineer, Resident Engineer, Engineering Audit Officer**, or other designee of the **Commissioner** shall submit to the **Commissioner** all materials he or she deems pertinent to the dispute. Following initial submissions to the **Commissioner**, either party may demand of the other the production of any document or other material the demanding party believes may be relevant to the dispute. The requested party shall produce all relevant materials that are not otherwise

protected by a legal privilege recognized by the courts of New York State. Any question of relevancy shall be determined by the **Commissioner** whose decision shall be final. Willful failure of the **Contractor** to produce any requested material whose relevancy the **Contractor** has not disputed, or whose relevancy has been affirmatively determined, shall constitute a waiver by the **Contractor** of its claim.

27.4.1 **Commissioner Inquiry.** The **Commissioner** shall examine the material and may, in his or her discretion, convene an informal conference with the **Contractor**, the **ACCO**, and the **Engineer, Resident Engineer, Engineering Audit Officer**, or other designee of the **Commissioner** to resolve the issue by mutual consent prior to reaching a determination. The **Commissioner** may seek such technical or other expertise as he or she shall deem appropriate, including the use of neutral mediators, and require any such additional material from either or both parties as he or she deems fit. The **Commissioner's** ability to render, and the effect of, a decision hereunder shall not be impaired by any negotiations in connection with the dispute presented, whether or not the **Commissioner** participated therein. The **Commissioner** may or, at the request of any party to the dispute, shall compel the participation of any **Other Contractor** with a contract related to the **Work** of this **Contract**, and that **Contractor** shall be bound by the decision of the **Commissioner**. Any **Other Contractor** thus brought into the dispute resolution proceeding shall have the same rights and obligations under this Article 27 as the **Contractor** initiating the dispute.

27.4.2 **Commissioner Determination.** Within thirty (30) **Days** after the receipt of all materials and information, or such longer time as may be agreed to by the parties, the **Commissioner** shall make his or her determination and shall deliver or send a copy of such determination to the **Contractor**, the **ACCO**, and **Engineer, Resident Engineer, Engineering Audit Officer**, or other designee of the **Commissioner**, as applicable, together with a statement concerning how the decision may be appealed.

27.4.3 **Finality of Commissioner's Decision.** The **Commissioner's** decision shall be final and binding on all parties, unless presented to the Contract Dispute Resolution Board pursuant to this Article 27. The **City** may not take a petition to the Contract Dispute Resolution Board. However, should the **Contractor** take such a petition, the **City** may seek, and the Contract Dispute Resolution Board may render, a determination less favorable to the **Contractor** and more favorable to the **City** than the decision of the **Commissioner**.

27.5 **Presentation of Dispute to the Comptroller.** Before any dispute may be brought by the **Contractor** to the Contract Dispute Resolution Board, the **Contractor** must first present its claim to the **Comptroller** for his or her review, investigation, and possible adjustment.

27.5.1 **Time, Form, and Content of Notice.** Within thirty (30) **Days** of its receipt of a decision by the **Commissioner**, the **Contractor** shall submit to the **Comptroller** and to the **Commissioner** a Notice of Claim regarding its dispute with the **Agency**. The Notice of Claim shall consist of (i) a brief written statement of the substance of the dispute, the amount of money, if any, claimed and the reason(s) the **Contractor** contends the dispute was wrongly decided by the **Commissioner**; (ii) a copy of the written decision of the **Commissioner**; and (iii) a copy of all materials submitted by the **Contractor** to the **Agency**, including the Notice of Dispute. The **Contractor** may not present to the **Comptroller** any material not presented to the **Commissioner**, except at the request of the **Comptroller**.

27.5.2 Response. Within thirty (30) **Days** of receipt of the Notice of Claim, the **Agency** shall make available to the **Comptroller** a copy of all material submitted by the **Agency** to the **Commissioner** in connection with the dispute. The **Agency** may not present to the **Comptroller** any material not presented to the **Commissioner** except at the request of the **Comptroller**.

27.5.3 **Comptroller** Investigation. The **Comptroller** may investigate the claim in dispute and, in the course of such investigation, may exercise all powers provided in Sections 7-201 and 7-203 of the Administrative Code. In addition, the **Comptroller** may demand of either party, and such party shall provide, whatever additional material the **Comptroller** deems pertinent to the claim, including original business records of the **Contractor**. Willful failure of the **Contractor** to produce within fifteen (15) **Days** any material requested by the **Comptroller** shall constitute a waiver by the **Contractor** of its claim. The **Comptroller** may also schedule an informal conference to be attended by the **Contractor**, **Agency** representatives, and any other personnel desired by the **Comptroller**.

27.5.4 Opportunity of **Comptroller** to Compromise or Adjust Claim. The **Comptroller** shall have forty-five (45) **Days** from his or her receipt of all materials referred to in Article 27.5.3 to investigate the disputed claim. The period for investigation and compromise may be further extended by agreement between the **Contractor** and the **Comptroller**, to a maximum of ninety (90) **Days** from the **Comptroller's** receipt of all materials. The **Contractor** may not present its petition to the Contract Dispute Resolution Board until the period for investigation and compromise delineated in this Article 27.5.4 has expired. In compromising or adjusting any claim hereunder, the **Comptroller** may not revise or disregard the terms of the **Contract** between the parties.

27.6 Contract Dispute Resolution Board. There shall be a Contract Dispute Resolution Board composed of:

27.6.1 The chief administrative law judge of the Office of Administrative Trials and Hearings (OATH) or his/her designated OATH administrative law judge, who shall act as chairperson, and may adopt operational procedures and issue such orders consistent with this Article 27 as may be necessary in the execution of the Contract Dispute Resolution Board's functions, including, but not limited to, granting extensions of time to present or respond to submissions;

27.6.2 The **CCPO** or his/her designee; any designee shall have the requisite background to consider and resolve the merits of the dispute and shall not have participated personally and substantially in the particular matter that is the subject of the dispute or report to anyone who so participated; and

27.6.3 A person with appropriate expertise who is not an employee of the **City**. This person shall be selected by the presiding administrative law judge from a prequalified panel of individuals, established and administered by OATH with appropriate background to act as decision-makers in a dispute. Such individual may not have a contract or dispute with the **City** or be an officer or employee of any company or organization that does, or regularly represents persons, companies, or organizations having disputes with the **City**.

27.7 Petition to the Contract Dispute Resolution Board. In the event the claim has not been settled or adjusted by the **Comptroller** within the period provided in this Article 27, the **Contractor**,

within thirty (30) **Days** thereafter, may petition the Contract Dispute Resolution Board to review the **Commissioner's** determination.

27.7.1 **Form and Content of Petition by Contractor.** The **Contractor** shall present its dispute to the Contract Dispute Resolution Board in the form of a petition, which shall include (i) a brief written statement of the substance of the dispute, the amount of money, if any, claimed, and the reason(s) the **Contractor** contends the dispute was wrongly decided by the **Commissioner**; (ii) a copy of the written Decision of the **Commissioner**, (iii) copies of all materials submitted by the **Contractor** to the Agency; (iv) a copy of the written decision of the **Comptroller**, if any, and (v) copies of all correspondence with, or written material submitted by the **Contractor**, to the **Comptroller**. The **Contractor** shall concurrently submit four (4) complete sets of the Petition: one set to the **City** Corporation Counsel (Attn: Commercial and Real Estate Litigation Division) and three (3) sets to the Contract Dispute Resolution Board at OATH's offices with proof of service on the **City** Corporation Counsel. In addition, the **Contractor** shall submit a copy of the written statement of the substance of the dispute, cited in (i) above, to both the **Commissioner** and the **Comptroller**.

27.7.2 **Agency Response.** Within thirty (30) **Days** of its receipt of the Petition by the **City** Corporation Counsel, the **Agency** shall respond to the brief written statement of the **Contractor** and make available to the Contract Dispute Resolution Board all material it submitted to the **Commissioner** and **Comptroller**. Three (3) complete copies of the **Agency** response shall be provided to the Contract Dispute Resolution Board and one to the **Contractor**. Extensions of time for submittal of the **Agency** response shall be given as necessary upon a showing of good cause or, upon consent of the parties, for an initial period of up to thirty (30) **Days**.

27.7.3 **Further Proceedings.** The Contract Dispute Resolution Board shall permit the **Contractor** to present its case by submission of memoranda, briefs, and oral argument. The Contract Dispute Resolution Board shall also permit the **Agency** to present its case in response to the **Contractor** by submission of memoranda, briefs, and oral argument. If requested by the **City** Corporation Counsel, the **Comptroller** shall provide reasonable assistance in the preparation of the **Agency's** case. Neither the **Contractor** nor the **Agency** may support its case with any documentation or other material that was not considered by the **Comptroller**, unless requested by the Contract Dispute Resolution Board. The Contract Dispute Resolution Board, in its discretion, may seek such technical or other expert advice as it shall deem appropriate and may seek, on its own or upon application of a party, any such additional material from any party as it deems fit. The Contract Dispute Resolution Board, in its discretion, may combine more than one dispute between the parties for concurrent resolution.

27.7.4 **Contract Dispute Resolution Board Determination.** Within forty-five (45) **Days** of the conclusion of all written submissions and oral arguments, the Contract Dispute Resolution Board shall render a written decision resolving the dispute. In an unusually complex case, the Contract Dispute Resolution Board may render its decision in a longer period, not to exceed ninety (90) **Days**, and shall so advise the parties at the commencement of this period. The Contract Dispute Resolution Board's decision must be consistent with the terms of the **Contract**. Decisions of the Contract Dispute Resolution Board shall only resolve matters before the Contract Dispute Resolution Board and shall not have precedential effect with respect to matters not before the Contract Dispute Resolution Board.

27.7.5 Notification of Contract Dispute Resolution Board Decision. The Contract Dispute Resolution Board shall send a copy of its decision to the **Contractor**, the **ACCO**, the Engineer, the **Comptroller**, the **City** Corporation Counsel, the CCPO, and the **PPB**. A decision in favor of the **Contractor** shall be subject to the prompt payment provisions of the **PPB** Rules. The Required Payment Date shall be thirty (30) Days after the date the parties are formally notified of the Contract Dispute Resolution Board's decision.

27.7.6 Finality of Contract Dispute Resolution Board Decision. The Contract Dispute Resolution Board's decision shall be final and binding on all parties. Any party may seek review of the Contract Dispute Resolution Board's decision solely in the form of a challenge, filed within four (4) months of the date of the Contract Dispute Resolution Board's decision, in a court of competent jurisdiction of the State of New York, County of New York pursuant to Article 78 of the Civil Practice Law and Rules. Such review by the court shall be limited to the question of whether or not the Contract Dispute Resolution Board's decision was made in violation of lawful procedure, was affected by an error of **Law**, or was arbitrary and capricious or an abuse of discretion. No evidence or information shall be introduced or relied upon in such proceeding that was not presented to the Contract Dispute Resolution Board in accordance with this Article 27.

27.8 Any termination, cancellation, or alleged breach of the **Contract** prior to or during the pendency of any proceedings pursuant to this Article 27 shall not affect or impair the ability of the **Commissioner** or Contract Dispute Resolution Board to make a binding and final decision pursuant to this Article 27.

ARTICLE 28. RECORD KEEPING FOR EXTRA OR DISPUTED WORK OR WORK ON A TIME & MATERIALS BASIS

28.1 While the **Contractor** or any of its **Subcontractors** is performing **Work** on a time and material basis or **Extra Work** on a time and material basis ordered by the **Commissioner** under Article 25, or where the **Contractor** believes that it or any of its **Subcontractors** is performing **Extra Work** but a final determination by **Agency** has not been made, or the **Contractor** or any of its **Subcontractors** is performing disputed **Work** (whether on or off the **Site**), or complying with a determination or order under protest in accordance with Articles 11, 27, and 30, in each such case the **Contractor** shall furnish the **Resident Engineer** daily with three (3) copies of written statements signed by the **Contractor's** representative at the **Site** showing:

28.1.1 The name, trade, and number of each worker employed on such **Work** or engaged in complying with such determination or order, the number of hours employed, and the character of the **Work** each is doing; and

28.1.2 The nature and quantity of any materials, plant and equipment furnished or used in connection with the performance of such **Work** or compliance with such determination or order, and from whom purchased or rented.

28.2 A copy of such statement will be countersigned by the **Resident Engineer**, noting thereon any items not agreed to or questioned, and will be returned to the **Contractor** within two (2) **Days** after submission.

28.3 The **Contractor** and its **Subcontractors**, when required by the **Commissioner**, or the **Comptroller**, shall also produce for inspection, at the office of the **Contractor** or **Subcontractor**, any and all of its books, bid documents, financial statements, vouchers, records, daily job diaries and reports,

and cancelled checks, and any other documents relating to showing the nature and quantity of the labor, materials, plant and equipment actually used in the performance of such **Work**, or in complying with such determination or order, and the amounts expended therefor, and shall permit the **Commissioner** and the **Comptroller** to make such extracts therefrom, or copies thereof, as they or either of them may desire.

28.4 In connection with the examination provided for herein, the **Commissioner**, upon demand therefor, will produce for inspection by the **Contractor** such records as the **Agency** may have with respect to such **Extra Work** or disputed **Work** performed under protest pursuant to order of the **Commissioner**, except those records and reports which may have been prepared for the purpose of determining the accuracy and validity of the **Contractor's** claim.

28.5 Failure to comply strictly with these requirements shall constitute a waiver of any claim for extra compensation or damages on account of the performance of such **Work** or compliance with such determination or order.

ARTICLE 29. OMITTED WORK

29.1 If any **Contract Work** in a lump sum **Contract**, or if any part of a lump sum item in a unit price, lump sum, or percentage-bid **Contract** is omitted by the **Commissioner** pursuant to Article 33, the **Contract** price, subject to audit by the EAO, shall be reduced by a pro rata portion of the lump sum bid amount based upon the percent of **Work** omitted subject to Article 29.4. For the purpose of determining the pro rata portion of the lump sum bid amount, the bid breakdown submitted in accordance with Article 41 shall be considered, but shall not be the determining factor.

29.2 If the whole of a lump sum item or units of any other item is so omitted by the **Commissioner** in a unit price, lump sum, or percentage-bid **Contract**, then no payment will be made therefor except as provided in Article 29.4.

29.3 For units that have been ordered but are only partially completed, the unit price shall be reduced by a pro rata portion of the unit price bid based upon the percentage of **Work** omitted subject to Article 29.4.

29.4 In the event the **Contractor**, with respect to any omitted **Work**, has purchased any non-cancelable material and/or equipment that is not capable of use except in the performance of this **Contract** and has been specifically fabricated for the sole purpose of this **Contract**, but not yet incorporated into the **Work**, the **Contractor** shall be paid for such material and/or equipment in accordance with Article 64.2.1(b); provided, however, such payment is contingent upon the **Contractor's** delivery of such material and/or equipment in acceptable condition to a location designated by the **City**.

29.5 The **Contractor** agrees to make no claim for damages or for loss of overhead and profit with regard to any omitted **Work**.

ARTICLE 30. NOTICE AND DOCUMENTATION OF COSTS AND DAMAGES; PRODUCTION OF FINANCIAL RECORDS

30.1 If the **Contractor** shall claim to be sustaining damages by reason of any act or omission of the **City** or its agents, it shall submit to the **Commissioner** within forty-five (45) **Days** from the time such damages are first incurred, and every thirty (30) **Days** thereafter to the extent additional damages are being incurred for the same condition, verified statements of the details and the amounts of such

damages, together with documentary evidence of such damages. The **Contractor** may submit any of the above statements within such additional time as may be granted by the **Commissioner** in writing upon written request therefor. Failure of the **Commissioner** to respond in writing to a written request for additional time within thirty (30) **Days** shall be deemed a denial of the request. On failure of the **Contractor** to strictly comply with the foregoing provisions, such claims shall be deemed waived and no right to recover on such claims shall exist. Damages that the **Contractor** may claim in any action or dispute resolution procedure arising under or by reason of this **Contract** shall not be different from or in excess of the statements and documentation made pursuant to this Article 30. This Article 30.1 does not apply to claims submitted to the **Commissioner** pursuant to Article 11 or to claims disputing a determination under Article 27.

30.2 In addition to the foregoing statements, the **Contractor** shall, upon notice from the **Commissioner**, produce for examination at the **Contractor's** office, by the **Engineer, Architect** or **Project Manager**, all of its books of account, bills, invoices, payrolls, subcontracts, time books, daily reports, bank deposit books, bank statements, check books, and cancelled checks, showing all of its acts and transactions in connection with or relating to or arising by reason of this **Contract**, and submit itself and persons in its employment, for examination under oath by any person designated by the **Commissioner** or **Comptroller** to investigate claims made or disputes against the **City** under this **Contract**. At such examination, a duly authorized representative of the **Contractor** may be present.

30.3 In addition to the statements required under Article 28 and this Article 30, the **Contractor** and/or its **Subcontractor** shall, within thirty (30) **Days** upon notice from the **Commissioner** or **Comptroller**, produce for examination at the **Contractor's** and/or **Subcontractor's** office, by a representative of either the **Commissioner** or **Comptroller**, all of its books of account, bid documents, financial statements, accountant workpapers, bills, invoices, payrolls, subcontracts, time books, daily reports, bank deposit books, bank statements, check books, and cancelled checks, showing all of its acts and transactions in connection with or relating to or arising by reason of this **Contract**. Further, the **Contractor** and/or its **Subcontractor** shall submit any person in its employment, for examination under oath by any person designated by the **Commissioner** or **Comptroller** to investigate claims made or disputes against the **City** under this **Contract**. At such examination, a duly authorized representative of the **Contractor** may be present.

30.4 Unless the information and examination required under Article 30.3 is provided by the **Contractor** and/or its **Subcontractor** upon thirty (30) **Days'** notice from the **Commissioner** or **Comptroller**, or upon the **Commissioner's** or **Comptroller's** written authorization to extend the time to comply, the **City** shall be released from all claims arising under, relating to or by reason of this **Contract**, except for sums certified by the **Commissioner** to be due under the provisions of this **Contract**. It is further stipulated and agreed that no person has the power to waive any of the foregoing provisions and that in any action or dispute resolution procedure against the **City** to recover any sum in excess of the sums certified by the **Commissioner** to be due under or by reason of this **Contract**, the **Contractor** must allege in its complaint and prove, at trial or during such dispute resolution procedure, compliance with the provisions of this Article 30.

30.5 In addition, after the commencement of any action or dispute resolution procedure by the **Contractor** arising under or by reason of this **Contract**, the **City** shall have the right to require the **Contractor** to produce for examination under oath, up until the trial of the action or hearing before the Contract Dispute Resolution Board, the books and documents described in Article 30.3 and submit itself and all persons in its employ for examination under oath. If this Article 30 is not complied with as required, then the **Contractor** hereby consents to the dismissal of the action or dispute resolution procedure.

CHAPTER VII: POWERS OF THE RESIDENT ENGINEER, THE ENGINEER OR ARCHITECT AND THE COMMISSIONER

ARTICLE 31. THE RESIDENT ENGINEER

31.1 The **Resident Engineer** shall have the power to inspect, supervise, and control the performance of the **Work**, subject to review by the **Commissioner**. The **Resident Engineer** shall not, however, have the power to issue an **Extra Work** order, except as specifically designated in writing by the **Commissioner**.

ARTICLE 32. THE ENGINEER OR ARCHITECT OR PROJECT MANAGER

32.1 The **Engineer** or **Architect** or **Project Manager**, in addition to those matters elsewhere herein delegated to the **Engineer** and expressly made subject to his/her determination, direction or approval, shall have the power, subject to review by the **Commissioner**:

32.1.1 To determine the amount, quality, and location of the **Work** to be paid for hereunder; and

32.1.2 To determine all questions in relation to the **Work**, to interpret the **Contract Drawings, Specifications, and Addenda**, and to resolve all patent inconsistencies or ambiguities therein; and

32.1.3 To determine how the **Work** of this **Contract** shall be coordinated with **Work** of **Other Contractors** engaged simultaneously on this **Project**, including the power to suspend any part of the **Work**, but not the whole thereof; and

32.1.4 To make minor changes in the **Work** as he/she deems necessary, provided such changes do not result in a net change in the cost to the **City** or to the **Contractor** of the **Work** to be done under the **Contract**; and

32.1.5 To amplify the **Contract Drawings**, add explanatory information and furnish additional **Specifications** and drawings, consistent with this **Contract**.

32.2 The foregoing enumeration shall not imply any limitation upon the power of the **Engineer** or **Architect** or **Project Manager**, for it is the intent of this **Contract** that all of the **Work** shall generally be subject to his/her determination, direction, and approval, except where the determination, direction or approval of someone other than the **Engineer** or **Architect** or **Project Manager** is expressly called for herein.

32.3 The **Engineer** or **Architect** or **Project Manager** shall not, however, have the power to issue an **Extra Work** order, except as specifically designated in writing by the **Commissioner**.

ARTICLE 33. THE COMMISSIONER

33.1 The **Commissioner**, in addition to those matters elsewhere herein expressly made subject to his/her determination, direction or approval, shall have the power:

33.1.1 To review and make determinations on any and all questions in relation to this **Contract** and its performance; and

33.1.2 To modify or change this **Contract** so as to require the performance of **Extra Work** (subject, however, to the limitations specified in Article 25) or the omission of **Contract Work**; and

33.1.3 To suspend the whole or any part of the **Work** whenever in his/her judgment such suspension is required:

33.1.3(a) In the interest of the **City** generally; or

33.1.3(b) To coordinate the **Work** of the various contractors engaged on this **Project** pursuant to the provisions of Article 12; or

33.1.3(c) To expedite the completion of the entire **Project** even though the completion of this particular **Contract** may thereby be delayed.

ARTICLE 34. NO ESTOPPEL

34.1 Neither the **City** nor any **Agency**, official, agent or employee thereof, shall be bound, precluded or estopped by any determination, decision, approval, order, letter, payment or certificate made or given under or in connection with this **Contract** by the **City**, the **Commissioner**, the **Engineer**, the **Resident Engineer**, or any other official, agent or employee of the **City**, either before or after the final completion and acceptance of the **Work** and payment therefor:

34.1.1 From showing the true and correct classification, amount, quality or character of the **Work** actually done; or that any such determination, decision, order, letter, payment or certificate was untrue, incorrect or improperly made in any particular, or that the **Work**, or any part thereof, does not in fact conform to the requirements of this **Contract**; and

34.1.2 From demanding and recovering from the **Contractor** any overpayment made to it, or such damages as the **City** may sustain by reason of the **Contractor's** failure to perform each and every part of its **Contract**.

CHAPTER VIII: LABOR PROVISIONS

ARTICLE 35. EMPLOYEES

35.1 The **Contractor** and its **Subcontractors** shall not employ on the **Work**:

35.1.1 Anyone who is not competent, faithful and skilled in the **Work** for which he/she shall be employed; and whenever the **Commissioner** shall inform the **Contractor**, in writing, that any employee is, in his/her opinion, incompetent, unfaithful or disobedient, that employee shall be discharged from the **Work** forthwith, and shall not again be employed upon it; or

35.1.2 Any labor, materials or means whose employment, or utilization during the course of this **Contract**, may tend to or in any way cause or result in strikes, work stoppages, delays, suspension of **Work** or similar troubles by workers employed by the **Contractor** or its **Subcontractors**, or by any of the trades working in or about the buildings and premises where **Work** is being performed under this **Contract**, or by **Other Contractors** or their **Subcontractors** pursuant to other contracts, or on any other building or premises owned or operated by the **City**, its **Agencies**, departments, boards or authorities. Any violation by the **Contractor** of this requirement may, upon certification of the **Commissioner**, be considered as proper and sufficient cause for declaring the **Contractor** to be in default, and for the **City** to take action against it as set forth in Chapter X of this **Contract**, or such other article of this **Contract** as the Commissioner may deem proper; or

35.1.3 In accordance with Section 220.3-e of the Labor Law of the State of New York (hereinafter "Labor Law"), the **Contractor** and its **Subcontractors** shall not employ on the **Work** any apprentice, unless he/she is a registered individual, under a bona fide program registered with the New York State Department of Labor. The allowable ratio of apprentices to journey-level workers in any craft classification shall not be greater than the ratio permitted to the **Contractor** as to its work force on any job under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered as above, shall be paid the wage rate determined by the **Comptroller** of the **City** for the classification of **Work** actually performed. The **Contractor** or **Subcontractor** will be required to furnish written evidence of the registration of its program and apprentices as well as all the appropriate ratios and wage rates, for the area of the construction prior to using any apprentices on the **Contract Work**.

35.2 If the total cost of the **Work** under this **Contract** is at least two hundred fifty thousand (\$250,000) dollars, all laborers, workers, and mechanics employed in the performance of the **Contract** on the public work site, either by the **Contractor**, **Subcontractor** or other person doing or contracting to do the whole or a part of the **Work** contemplated by the **Contract**, shall be certified prior to performing any **Work** as having successfully completed a course in construction safety and health approved by the United States Department of Labor's Occupational Safety and Health Administration that is at least ten (10) hours in duration.

35.3 In accordance with Local Law Nos. 30-2012 and 33-2012, codified at sections 6-132 and 12-113 of the Administrative Code, respectively,

35.3.1 The **Contractor** shall not take an adverse personnel action with respect to an officer or employee in retaliation for such officer or employee making a report of information concerning conduct which such officer or employee knows or reasonably believes to involve corruption, criminal activity, conflict of interest, gross mismanagement or abuse of authority by any officer or employee relating to this **Contract** to (a) the Commissioner of the Department of Investigation, (b) a member of the New York City Council, the Public Advocate, or the **Comptroller**, or (c) the **CCPO**, **ACCO**, **Agency** head, or **Commissioner**.

35.3.2 If any of the **Contractor's** officers or employees believes that he or she has been the subject of an adverse personnel action in violation of Article 35.3.1, he or she shall be entitled to bring a cause of action against the **Contractor** to recover all relief necessary to make him or her whole. Such relief may include but is not limited to: (a) an injunction to restrain continued retaliation, (b) reinstatement to the position such employee would have had but for the retaliation or to an equivalent position, (c) reinstatement of full fringe benefits and seniority rights, (d) payment of two times back

pay, plus interest, and (e) compensation for any special damages sustained as a result of the retaliation, including litigation costs and reasonable attorney's fees.

35.3.3 The **Contractor** shall post a notice provided by the **City** in a prominent and accessible place on any site where work pursuant to the **Contract** is performed that contains information about:

35.3.3(a) how its employees can report to the New York City Department of Investigation allegations of fraud, false claims, criminality or corruption arising out of or in connection with the **Contract**; and

35.3.3(b) the rights and remedies afforded to its employees under Administrative Code sections 7-805 (the New York City False Claims Act) and 12-113 (the Whistleblower Protection Expansion Act) for lawful acts taken in connection with the reporting of allegations of fraud, false claims, criminality or corruption in connection with the **Contract**.

35.3.4 For the purposes of this Article 35.3, "adverse personnel action" includes dismissal, demotion, suspension, disciplinary action, negative performance evaluation, any action resulting in loss of staff, office space, equipment or other benefit, failure to appoint, failure to promote, or any transfer or assignment or failure to transfer or assign against the wishes of the affected officer or employee.

35.3.5 This Article 35.3 is applicable to all of the **Contractor's Subcontractors** having subcontracts with a value in excess of \$100,000; accordingly, the **Contractor** shall include this rider in all subcontracts with a value in excess of \$100,000.

35.4 Article 35.3 is not applicable to this **Contract** if it is valued at \$100,000 or less. Articles 35.3.1, 35.3.2, 35.3.4, and 35.3.5 are not applicable to this **Contract** if it was solicited pursuant to a finding of an emergency.

35.5 Paid Sick Leave Law.

35.5.1 Introduction and General Provisions.

35.5.1(a) The Earned Sick Time Act, also known as the Paid Sick Leave Law ("PSLL"), requires covered employees who annually perform more than 80 hours of work in New York City to be provided with paid sick time.² Contractors of the **City** or of other governmental entities may be required to provide sick time pursuant to the PSLL.

35.5.1(b) The PSLL became effective on April 1, 2014, and is codified at Title 20, Chapter 8, of the New York City Administrative Code. It is administered by the City's Department of Consumer Affairs ("DCA"); DCA's rules promulgated under the PSLL are codified at Chapter 7 of Title 6 of the Rules of the City of New York ("Rules").

² Pursuant to the PSLL, if fewer than five employees work for the same employer, as determined pursuant to New York City Administrative Code § 20-912(g), such employer has the option of providing such employees uncompensated sick time.

35.5.1(c) The **Contractor** agrees to comply in all respects with the PSLL and the Rules, and as amended, if applicable, in the performance of this **Contract**. The **Contractor** further acknowledges that such compliance is a material term of this **Contract** and that failure to comply with the PSLL in performance of this **Contract** may result in its termination.

35.5.1(d) The **Contractor** must notify the **Agency Chief Contracting Officer** of the **Agency** with whom it is contracting in writing within ten (10) days of receipt of a complaint (whether oral or written) regarding the PSLL involving the performance of this **Contract**. Additionally, the **Contractor** must cooperate with DCA's education efforts and must comply with DCA's subpoenas and other document demands as set forth in the PSLL and Rules.

35.5.1(e) The PSLL is summarized below for the convenience of the **Contractor**. The **Contractor** is advised to review the PSLL and Rules in their entirety. On the website www.nyc.gov/PaidSickLeave there are links to the PSLL and the associated Rules as well as additional resources for employers, such as Frequently Asked Questions, timekeeping tools and model forms, and an event calendar of upcoming presentations and webinars at which the **Contractor** can get more information about how to comply with the PSLL. The **Contractor** acknowledges that it is responsible for compliance with the PSLL notwithstanding any inconsistent language contained herein.

35.5.2 Pursuant to the PSLL and the Rules: Applicability, Accrual, and Use.

35.5.2(a) An employee who works within the City of New York for more than eighty hours in any consecutive 12-month period designated by the employer as its "calendar year" pursuant to the PSLL ("Year") must be provided sick time. Employers must provide a minimum of one hour of sick time for every 30 hours worked by an employee and compensation for such sick time must be provided at the greater of the employee's regular hourly rate or the minimum wage. Employers are not required to provide more than 40 hours of sick time to an employee in any Year.

35.5.2(b) An employee has the right to determine how much sick time he or she will use, provided that employers may set a reasonable minimum increment for the use of sick time not to exceed four hours per **Day**. In addition, an employee may carry over up to 40 hours of unused sick time to the following Year, provided that no employer is required to allow the use of more than forty hours of sick time in a Year or carry over unused paid sick time if the employee is paid for such unused sick time and the employer provides the employee with at least the legally required amount of paid sick time for such employee for the immediately subsequent Year on the first **Day** of such Year.

35.5.2(c) An employee entitled to sick time pursuant to the PSLL may use sick time for any of the following:

- i. such employee's mental illness, physical illness, injury, or health condition or the care of such illness, injury, or condition or such employee's need for medical diagnosis or preventive medical care;
- ii. such employee's care of a family member (an employee's child, spouse, domestic partner, parent, sibling, grandchild or grandparent, or the child or parent of an employee's spouse or domestic partner) who has a mental

- illness, physical illness, injury or health condition or who has a need for medical diagnosis or preventive medical care;
- iii. closure of such employee's place of business by order of a public official due to a public health emergency; or
- iv. such employee's need to care for a child whose school or childcare provider has been closed due to a public health emergency.

35.5.2(d) An employer must not require an employee, as a condition of taking sick time, to search for a replacement. However, an employer may require an employee to provide: reasonable notice of the need to use sick time; reasonable documentation that the use of sick time was needed for a reason above if for an absence of more than three consecutive work days; and/or written confirmation that an employee used sick time pursuant to the PSL. However, an employer may not require documentation specifying the nature of a medical condition or otherwise require disclosure of the details of a medical condition as a condition of providing sick time and health information obtained solely due to an employee's use of sick time pursuant to the PSL must be treated by the employer as confidential.

35.5.2(e) If an employer chooses to impose any permissible discretionary requirement as a condition of using sick time, it must provide to all employees a written policy containing those requirements, using a delivery method that reasonably ensures that employees receive the policy. If such employer has not provided its written policy, it may not deny sick time to an employee because of non-compliance with such a policy.

35.5.2(f) Sick time to which an employee is entitled must be paid no later than the payday for the next regular payroll period beginning after the sick time was used.

35.5.3 Exemptions and Exceptions. Notwithstanding the above, the PSL does not apply to any of the following:

35.5.3(a) an independent contractor who does not meet the definition of employee under section 190(2) of the New York State Labor Law;

35.5.3(b) an employee covered by a valid collective bargaining agreement in effect on April 1, 2014, until the termination of such agreement;

35.5.3(c) an employee in the construction or grocery industry covered by a valid collective bargaining agreement if the provisions of the PSL are expressly waived in such collective bargaining agreement;

35.5.3(d) an employee covered by another valid collective bargaining agreement if such provisions are expressly waived in such agreement and such agreement provides a benefit comparable to that provided by the PSL for such employee;

35.5.3(e) an audiologist, occupational therapist, physical therapist, or speech language pathologist who is licensed by the New York State Department of Education and who calls in for work assignments at will, determines his or her own schedule, has the ability to reject or accept any assignment referred to him or her, and is paid an average hourly wage that is at least four times the federal minimum wage;

35.5.3(f) an employee in a work study program under Section 2753 of Chapter 42 of the United States Code;

35.5.3(g) an employee whose work is compensated by a qualified scholarship program as that term is defined in the Internal Revenue Code, Section 117 of Chapter 20 of the United States Code; or

35.5.3(h) a participant in a Work Experience Program (WEP) under section 336-c of the New York State Social Services Law.

35.5.4 Retaliation Prohibited. An employer may not threaten or engage in retaliation against an employee for exercising or attempting in good faith to exercise any right provided by the PSL. In addition, an employer may not interfere with any investigation, proceeding, or hearing pursuant to the PSL.

35.5.5 Notice of Rights.

35.5.5(a) An employer must provide its employees with written notice of their rights pursuant to the PSL. Such notice must be in English and the primary language spoken by an employee, provided that DCA has made available a translation into such language. Downloadable notices are available on DCA's website at <http://www.nyc.gov/html/dca/html/law/PaidSickLeave.shtml>.

35.5.5(b) Any person or entity that willfully violates these notice requirements is subject to a civil penalty in an amount not to exceed fifty dollars for each employee who was not given appropriate notice.

35.5.6 Records. An employer must retain records documenting its compliance with the PSL for a period of at least three years, and must allow DCA to access such records in furtherance of an investigation related to an alleged violation of the PSL.

35.5.7 Enforcement and Penalties.

35.5.7(a) Upon receiving a complaint alleging a violation of the PSL, DCA has the right to investigate such complaint and attempt to resolve it through mediation. Within 30 **Days** of written notification of a complaint by DCA, or sooner in certain circumstances, the employer must provide DCA with a written response and such other information as DCA may request. If DCA believes that a violation of the PSL has occurred, it has the right to issue a notice of violation to the employer.

35.5.7(b) DCA has the power to grant an employee or former employee all appropriate relief as set forth in New York City Administrative Code § 20-924(d). Such relief may include, among other remedies, treble damages for the wages that should have been paid, damages for unlawful retaliation, and damages and reinstatement for unlawful discharge. In addition, DCA may impose on an employer found to have violated the PSL civil penalties not to exceed \$500 for a first violation, \$750 for a second violation within two years of the first violation, and \$1,000 for each succeeding violation within two years of the previous violation.

35.5.8 More Generous Policies and Other Legal Requirements. Nothing in the PSL is intended to discourage, prohibit, diminish, or impair the adoption or retention of a more generous sick time policy, or the obligation of an employer to comply with any contract,

collective bargaining agreement, employment benefit plan or other agreement providing more generous sick time. The PSLI provides minimum requirements pertaining to sick time and does not preempt, limit or otherwise affect the applicability of any other law, regulation, rule, requirement, policy or standard that provides for greater accrual or use by employees of sick leave or time, whether paid or unpaid, or that extends other protections to employees. The PSLI may not be construed as creating or imposing any requirement in conflict with any federal or state law, rule or regulation.

35.6 HireNYC: Hiring and Reporting Requirements. This Article 35.6 applies to construction contracts of \$1,000,000 or more. The **Contractor** shall comply with the requirements of Articles 35.6.1-35.6.5 for all non-trades jobs (e.g., for an administrative position arising out of **Work** ant located in New York City). The **Contractor** shall reasonably cooperate with SBS and the **City** on specific outreach events, including “Hire-on-the-Spot” events, for the hiring of trades workers in connection with the **Work**. If provided elsewhere in this **Contract**, this **Contract** is subject to a project labor agreement.

35.6.1 Enrollment. The **Contractor** shall enroll with the HireNYC system, found at www.nyc.gov/sbs, within thirty (30) days after the registration of this **Contract** pursuant to Section 328 of the New York City Charter. The **Contractor** shall provide information about the business, designate a primary contact and say whether it intends to hire for any entry to mid-level job opportunities arising from this **Contract** and located in New York City, and, if so, the approximate start date of the first hire.

35.6.2 Job Posting Requirements.

35.6.2(a) Once enrolled in HireNYC, the **Contractor** agrees to update the HireNYC portal with all entry to mid-level job opportunities arising from this **Contract** and located in New York City, if any, which shall be defined as jobs requiring no more than an associate degree, as provided by the New York State Department of Labor (see Column F of <https://labor.ny.gov/stats/2012-2022-NYS-Employment-Prospects.xls>). The information to be updated includes the types of entry and mid-level positions made available from the work arising from the **Contract** and located in New York City, the number of positions, the anticipated schedule of initiating the hiring process for these positions, and the contact information for the **Contractor’s** representative charged with overseeing hiring. The **Contractor** must update the HireNYC portal with any hiring needs arising from the contract and located in New York City, and the requirements of the jobs to be filled, no less than three weeks prior to the intended first day of employment for each new position, except with the permission of SBS, not to be unreasonably withheld, and must also update the HireNYC portal as set forth below.

35.6.2(b) After enrollment through HireNYC and submission of relevant information, SBS will work with the **Contractor** to develop a recruitment plan which will outline the candidate screening process, and will provide clear instructions as to when, where, and how interviews will take place. HireNYC will screen applicants based on employer requirements and refer applicants whom it believes are qualified to the **Contractor** for interviews. The **Contractor** must interview referred applicants whom it believes are qualified.

35.6.2(c) After completing an interview of a candidate referred by HireNYC, the **Contractor** must provide feedback via the portal within twenty (20) business days to indicate which candidates were interviewed and hired, if any. In addition, the **Contractor** shall provide the start date of new hires, and additional information

reasonably related to such hires, within twenty (20) business days after the start date. In the event the **Contractor** does not have any job openings covered by this Rider in any given year, the **Contractor** shall be required to provide an annual update to HireNYC to that effect. For this purpose, the reporting year shall run from the date of the registration of the **Contract** pursuant to Charter section 328 and each anniversary date.

35.6.2(d) These requirements do not limit the **Contractor's** ability to assess the qualifications of prospective workers, and to make final hiring and retention decisions. No provision of this Article 35.6 shall be interpreted so as to require the **Contractor** to employ any particular worker.

35.6.2(e) In addition, the provisions of this Article 35.6 shall not apply to positions that the **Contractor** intends to fill with employees employed pursuant to the job retention provision of Section 22-505 of the Administrative Code of the City of New York. The **Contractor** shall not be required to report such openings with HireNYC. However, the **Contractor** shall enroll with the HireNYC system pursuant to Article 35.6.1, above, and, if such positions subsequently become open, then the remaining provisions of this Article 35.6 will apply.

35.6.3 Breach and Liquidated Damages. If the **Contractor** fails to comply with the terms of the **ContrSact** and this Article 35.6 (1) by not enrolling its business with HireNYC; (2) by not informing HireNYC, as required, of open positions; or (3) by failing to interview a qualified candidate, the **Agency** may assess liquidated damages in the amount of two-thousand five hundred dollars (\$2,500) per breach. For all other events of noncompliance with the terms of this Article 35.6, the **Agency** may assess liquidated damages in the amount of five hundred dollars (\$500) per breach. Furthermore, in the event the **Contractor** breaches the requirements of this Article 35.6 during the term of the **Contract**, the **City** may hold the **Contractor** in default of this **Contract**.

35.6.4 Audit Compliance. In addition to the auditing requirements set forth in other parts of the **Contract**, the **Contractor** shall permit SBS and the **City** to inspect any and all records concerning or relating to job openings or the hiring of individuals for work arising from the **Contract** and located in New York City. The **Contractor** shall permit an inspection within seven (7) business days of the request.

35.6.5 Other Reporting Requirements. The **Contractor** shall report to the **City**, on a monthly basis, all information reasonably requested by the **City** that is necessary for the **City** to comply with any reporting requirements imposed by **Law**, including any requirement that the **City** maintain a publicly accessible database. In addition, the **Contractor** agrees to comply with all reporting requirements imposed by **Law**, or as otherwise requested by the **City**.

35.6.6 Federal Hiring Requirements. If this **Contract** is federally funded (as indicated elsewhere in this Contract), the **Contractor** shall comply with all federal hiring requirements as may be set forth in this **Contract**, including, as applicable: (a) Section 3 of the HUD Act of 1968, which requires, to the greatest extent feasible, economic opportunities for 30 percent of new hires be given to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing and Executive Order 11246, which prohibits discrimination in employment due to race, color, religion, sex or national origin, and requires the implementation of goals for minority and female participation for work involving any construction trade.

ARTICLE 36. NO DISCRIMINATION

36.1 The **Contractor** specifically agrees, as required by Labor Law Section 220-e, as amended, that:

36.1.1 In the hiring of employees for the performance of **Work** under this **Contract** or any subcontract hereunder, neither the **Contractor**, **Subcontractor**, nor any person acting on behalf of such **Contractor** or **Subcontractor**, shall by reason of race, creed, color or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the **Work** to which the employment relates;

36.1.2 Neither the **Contractor**, **Subcontractor**, nor any person on its behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of **Work** under this **Contract** on account of race, creed, color or national origin;

36.1.3 There may be deducted from the amount payable to the **Contractor** by the **City** under this **Contract** a penalty of fifty (\$50.00) dollars for each person for each **Day** during which such person was discriminated against or intimidated in violation of the provisions of this **Contract**; and

36.1.4 This **Contract** may be cancelled or terminated by the **City** and all moneys due or to become due hereunder may be forfeited, for a second or any subsequent violation of the terms or conditions of this Article 36.

36.1.5 This Article 36 covers all construction, alteration and repair of any public building or public work occurring in the State of New York and the manufacture, sale, and distribution of materials, equipment, and supplies to the extent that such operations are performed within the State of New York pursuant to this **Contract**.

36.2 The **Contractor** specifically agrees, as required by Section 6-108 of the Administrative Code, as amended, that:

36.2.1 It shall be unlawful for any person engaged in the construction, alteration or repair of buildings or engaged in the construction or repair of streets or highways pursuant to a **Contract** with the **City** or engaged in the manufacture, sale or distribution of materials, equipment or supplies pursuant to a **Contract** with the **City** to refuse to employ or to refuse to continue in any employment any person on account of the race, color or creed of such person.

36.2.2 It shall be unlawful for any person or any servant, agent or employee of any person, described in Article 36.1.2, to ask, indicate or transmit, orally or in writing, directly or indirectly, the race, color or creed or religious affiliation of any person employed or seeking employment from such person, firm or corporation.

36.2.3 Breach of the foregoing provisions shall be deemed a violation of a material provision of this **Contract**.

36.2.4 Any person, or the employee, manager or owner of or officer of such firm or corporation who shall violate any of the provisions of this Article 36.2 shall, upon

conviction thereof, be punished by a fine of not more than one hundred (\$100.00) dollars or by imprisonment for not more than thirty (30) **Days**, or both.

36.3 This **Contract** is subject to the requirements of Executive Order No. 50 (1980) (“E.O. 50”), as revised, and the rules and regulations promulgated thereunder. No contract will be awarded unless and until these requirements have been complied with in their entirety. By signing this **Contract**, the **Contractor** agrees that it:

36.3.1 Will not engage in any unlawful discrimination against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability, marital status or sexual orientation with respect to all employment decisions including, but not limited to, recruitment, hiring, upgrading, demotion, downgrading, transfer, training, rates of pay or other forms of compensation, layoff, termination, and all other terms and conditions of employment; and

36.3.2 Will not engage in any unlawful discrimination in the selection of **Subcontractors** on the basis of the owner’s race, color, creed, national origin, sex, age, disability, marital status or sexual orientation; and

36.3.3 Will state in all solicitations or advertisements for employees placed by or on behalf of the **Contractor** that all qualified applicants will receive consideration for employment without unlawful discrimination based on race, creed, color, national origin, sex, age, citizens status, disability, marital status, sexual orientation, or that it is an equal employment opportunity employer; and

36.3.4 Will send to each labor organization or representative of workers with which it has a collective bargaining agreement or other contract or memorandum of understanding, written notification of its equal employment opportunity commitments under E.O. 50 and the rules and regulations promulgated thereunder; and

36.3.5 Will furnish, before the award of the **Contract**, all information and reports, including an employment report, that are required by E.O. 50, the rules and regulations promulgated thereunder, and orders of the **City** Department of Business Services, Division of Labor Services (**DLS**) and will permit access to its books, records, and accounts by the **DLS** for the purposes of investigation to ascertain compliance with such rules, regulations, and orders.

36.4 The **Contractor** understands that in the event of its noncompliance with the nondiscrimination clauses of this **Contract** or with any of such rules, regulations, or orders, such noncompliance shall constitute a material breach of this **Contract** and noncompliance with E.O. 50 and the rules and regulations promulgated thereunder. After a hearing held pursuant to the rules of the **DLS**, the Director of the **DLS** may direct the **Commissioner** to impose any or all of the following sanctions:

36.4.1 Disapproval of the **Contractor**; and/or

36.4.2 Suspension or termination of the **Contract**; and/or

36.4.3 Declaring the **Contractor** in default; and/or

36.4.4 In lieu of any of the foregoing sanctions, the Director of the **DLS** may impose an employment program.

In addition to any actions taken under this **Contract**, failure to comply with E.O. 50 and the rules and regulations promulgated thereunder, in one or more instances, may result in a **City Agency** declaring the **Contractor** to be non-responsible in future procurements. The **Contractor** further agrees that it will refrain from entering into any **Contract** or **Contract** modification subject to E.O. 50 and the rules and regulations promulgated thereunder with a **Subcontractor** who is not in compliance with the requirements of E.O. 50 and the rules and regulations promulgated thereunder.

36.5 The **Contractor** specifically agrees, as required by Section 6-123 of the Administrative Code, that:

36.5.1 The **Contractor** will not engage in any unlawful discriminatory practice in violation of Title 8 of the Administrative Code; and

36.5.2 Any failure to comply with this Article 36.5 may subject the **Contractor** to the remedies set forth in Section 6-123 of the Administrative Code, including, where appropriate, sanctions such as withholding of payment, imposition of an employment program, finding the **Contractor** to be in default, cancellation of the **Contract**, or any other sanction or remedy provided by **Law** or **Contract**.

ARTICLE 37. LABOR LAW REQUIREMENTS

37.1 The **Contractor** shall strictly comply with all applicable provisions of the Labor Law, as amended. Such compliance is a material term of this **Contract**.

37.2 The **Contractor** specifically agrees, as required by Labor Law Sections 220 and 220-d, as amended, that:

37.2.1 Hours of **Work**: No laborer, worker, or mechanic in the employ of the **Contractor**, **Subcontractor** or other person doing or contracting to do the whole or a part of the **Work** contemplated by this **Contract** shall be permitted or required to work more than eight (8) hours in any one (1) **Day**, or more than five (5) **Days** in any one (1) week, except as provided in the Labor Law and in cases of extraordinary emergency including fire, flood, or danger to life or property, or in the case of national emergency when so proclaimed by the President of the United States of America.

37.2.2 In situations in which there are not sufficient laborers, workers, and mechanics who may be employed to carry on expeditiously the **Work** contemplated by this **Contract** as a result of such restrictions upon the number of hours and **Days** of labor, and the immediate commencement or prosecution or completion without undue delay of the **Work** is necessary for the preservation of the **Site** and/or for the protection of the life and limb of the persons using the same, such laborers, workers, and mechanics shall be permitted or required to work more than eight (8) hours in any one (1) **Day**; or five (5) **Days** in any one (1) week; provided, however, that upon application of any **Contractor**, the **Commissioner** shall have first certified to the Commissioner of Labor of the State of New York (hereinafter "Commissioner of Labor") that such public **Work** is of an important nature and that a delay in carrying it to completion would result in serious disadvantage to the public; and provided, further, that such Commissioner of Labor shall have determined that such an emergency does in fact exist as provided in Labor Law Section 220.2.

37.2.3 Failure of the **Commissioner** to make such a certification to the Commissioner of Labor shall not entitle the **Contractor** to damages for delay or for any cause whatsoever.

37.2.4 Prevailing Rate of Wages: The wages to be paid for a legal day's **Work** to laborers, workers, or mechanics employed upon the **Work** contemplated by this **Contract** or upon any materials to be used thereon shall not be less than the "prevailing rate of wage" as defined in Labor Law Section 220, and as fixed by the **Comptroller** in the attached Schedule of Wage Rates and in updated schedules thereof. The prevailing wage rates and supplemental benefits to be paid are those in effect at the time the **Work** is being performed.

37.2.5 Requests for interpretation or correction in the Information for Bidders includes all requests for clarification of the classification of trades to be employed in the performance of the **Work** under this **Contract**. In the event that a trade not listed in the **Contract** is in fact employed during the performance of this **Contract**, the **Contractor** shall be required to obtain from the **Agency** the prevailing wage rates and supplementary benefits for the trades used and to complete the performance of this **Contract** at the price at which the **Contract** was awarded.

37.2.6 Minimum Wages: Except for employees whose wage is required to be fixed pursuant to Labor Law Section 220, all persons employed by the **Contractor** and any **Subcontractor** in the manufacture or furnishing of the supplies, materials, or equipment, or the furnishing of work, labor, or services, used in the performance of this **Contract**, shall be paid, without subsequent deduction or rebate unless expressly authorized by **Law**, not less than the sum mandated by **Law**.

37.3 Working Conditions: No part of the **Work**, labor or services shall be performed or rendered by the **Contractor** in any plants, factories, buildings or surroundings or under working conditions which are unsanitary or hazardous or dangerous to the health and safety of employees engaged in the performance of this **Contract**. Compliance with the safety, sanitary, and factory inspection **Laws** of the state in which the **Work** is to be performed shall be prima facie evidence of compliance with this Article 37.3.

37.4 Prevailing Wage Enforcement: The **Contractor** agrees to pay for all costs incurred by the **City** in enforcing prevailing wage requirements, including the cost of any investigation conducted by or on behalf of the **Agency** or the **Comptroller**, where the **City** discovers a failure to comply with any of the requirements of this Article 37 by the **Contractor** or its **Subcontractor(s)**. The **Contractor** also agrees that, should it fail or refuse to pay for any such investigation, the **Agency** is hereby authorized to deduct from a **Contractor's** account an amount equal to the cost of such investigation.

37.4.1 The Labor Law Section 220 and Section 220-d, as amended, provide that this **Contract** shall be forfeited and no sum paid for any **Work** done hereunder on a second conviction for willfully paying less than:

37.4.1(a) The stipulated prevailing wage scale as provided in Labor Law section 220, as amended, or

37.4.1(b) The stipulated minimum hourly wage scale as provided in Labor Law section 220-d, as amended.

37.4.2 For any breach or violation of either working conditions (Article 37.3) or minimum wages (Article 37.2.6) provisions, the party responsible therefor shall be liable to the **City** for liquidated damages, which may be withheld from any amounts due on any contracts with the **City** of such party responsible, or may be recovered in actions brought by the **City**

Corporation Counsel in the name of the **City**, in addition to damages for any other breach of this **Contract**, for a sum equal to the amount of any underpayment of wages due to any employee engaged in the performance of this **Contract**. In addition, the **Commissioner** shall have the right to cancel contracts and enter into other contracts for the completion of the original contract, with or without public letting, and the original **Contractor** shall be liable for any additional cost. All sums withheld or recovered as deductions, rebates, refunds, or underpayment of wages hereunder, shall be held in a special deposit account and shall be paid without interest, on order of the **Comptroller**, directly to the employees who have been paid less than minimum rates of pay as set forth herein and on whose account such sums were withheld or recovered, provided that no claims by employees for such payments shall be entertained unless made within two (2) years from the date of actual notice to the **Contractor** of the withholding or recovery of such sums by the **City**.

37.4.3 A determination by the **Comptroller** that a **Contractor** and/or its **Subcontractor** willfully violated Labor Law Section 220 will be forwarded to the **City's** five District Attorneys for review.

37.4.4 The **Contractor's** or **Subcontractor's** noncompliance with this Article 37.4 and Labor Law Section 220 may result in an unsatisfactory performance evaluation and the **Comptroller** may also find and determine that the **Contractor** or **Subcontractor** willfully violated the New York Labor **Law**.

37.4.4(a) An unsatisfactory performance evaluation for noncompliance with this Article 37.4 may result in a determination that the **Contractor** is a non-responsible bidder on subsequent procurements with the **City** and thus a rejection of a future award of a contract with the **City**, as well as any other sanctions provided for by **Law**.

37.4.4(b) Labor Law Section 220-b, as amended, provides that when two (2) final determinations have been rendered against a **Contractor** or **Subcontractor** within any consecutive six (6) year period determining that such **Contractor** or **Subcontractor** has willfully failed to pay the prevailing rate of wages or to provide supplements in accordance with the Labor Law and this Article 37.4, whether such failures were concurrent or consecutive and whether or not such final determinations concerning separate public works projects are rendered simultaneously, such **Contractor** or **Subcontractor** shall be ineligible to submit a bid on or be awarded any public works contract with the **City** for a period of five (5) years from the second final determination. If the final determination involves the falsification of payroll records or the kickback of wages or supplements, the **Contractor** or **Subcontractor** shall be ineligible to submit a bid on or be awarded any public works contract with the **City** for a period of five (5) years from the first final determination.

37.4.4(c) Labor Law Section 220, as amended, provides that the **Contractor** or **Subcontractor** found to have violated this Article 37.4 may be directed to make payment of wages or supplements including interest found to be due, and the **Contractor** or **Subcontractor** may be directed to make payment of a further sum as a civil penalty in an amount not exceeding twenty-five (25%) percent of the total amount found to be due.

37.5 The **Contractor** and its **Subcontractors** shall within ten (10) **Days** after mailing of a Notice of Award or written order, post in prominent and conspicuous places in each and every plant, factory, building, and structure where employees of the **Contractor** and its **Subcontractors** engaged in the

performance of this **Contract** are employed, notices furnished by the **City**, in relation to prevailing wages and supplements, minimum wages, and other stipulations contained in Sections 220 and 220-h of the Labor Law, and the **Contractor** and its **Subcontractors** shall continue to keep such notices posted in such prominent and conspicuous places until **Final Acceptance** of the supplies, materials, equipment, or **Work**, labor, or services required to be furnished or rendered under this **Contract**.

37.6 The **Contractor** shall strictly comply with all of the provisions of Articles 37.6.1 through 37.6.5, and provide for all workers, laborers or mechanics in its employ, the following:

37.6.1 Notices Posted At **Site**: Post, in a location designated by the **City**, schedules of prevailing wages and supplements for this **Project**, a copy of all re-determinations of such schedules for the **Project**, the Workers' Compensation **Law** Section 51 notice, all other notices required by **Law** to be posted at the **Site**, the **City** notice that this **Project** is a public works project on which each worker is entitled to receive the prevailing wages and supplements for the occupation at which he or she is working, and all other notices which the **City** directs the **Contractor** to post. The **Contractor** shall provide a surface for such notices which is satisfactory to the **City**. The **Contractor** shall maintain and keep current such notices in a legible manner and shall replace any notice or schedule which is damaged, defaced, illegible or removed for any reason. The **Contractor** shall post such notices before commencing any **Work** on the **Site** and shall maintain such notices until all **Work** on the **Site** is complete; and

37.6.2 Daily **Site** Sign-in Sheets: Maintain daily **Site** sign-in sheets, and require that **Subcontractors** maintain daily **Site** sign-in sheets for its employees, which include blank spaces for an employee's name to be both printed and signed, job title, date started and Social Security number, the time the employee began work and the time the employee left work, until **Final Acceptance** of the supplies, materials, equipment, or **Work**, labor, or services to be furnished or rendered under this **Contract** unless exception is granted by the **Comptroller** upon application by the **Agency**. In the alternative, subject to the approval of the **CCPO**, the **Contractor** and **Subcontractor** may maintain an electronic or biometric sign-in system, which provides the information required by this Article 37.6.2; and

37.6.3 Individual Employee Information Notices: Distribute a notice to each worker, laborer or mechanic employed under this **Contract**, in a form provided by the **Agency**, that this **Project** is a public works project on which each worker, laborer or mechanic is entitled to receive the prevailing rate of wages and supplements for the occupation at which he or she is working. If the total cost of the **Work** under this **Contract** is at least two hundred fifty thousand (\$250,000) dollars, such notice shall also include a statement that each worker, laborer or mechanic must be certified prior to performing any **Work** as having successfully completed a course in construction safety and health approved by the United States Department of Labor's Occupational Safety and Health Administration that is at least ten (10) hours in duration. Such notice shall be distributed to each worker before he or she starts performing any **Work** of this **Contract** and with the first paycheck after July first of each year. "Worker, laborer or mechanic" includes employees of the **Contractor** and all **Subcontractors** and all employees of suppliers entering the **Site**. At the time of distribution, the **Contractor** shall have each worker, laborer or mechanic sign a statement, in a form provided by the **Agency**, certifying that the worker has received the notice required by this Article 37.6.3, which signed statement shall be maintained with the payroll records required by this **Contract**; and

37.6.3(a) The **Contractor** and each **Subcontractor** shall notify each worker, laborer or mechanic employed under this **Contract** in writing of the prevailing rate of

wages for their particular job classification. Such notification shall be given to every worker, laborer, and mechanic on their first pay stub and with every pay stub thereafter; and

37.6.4 **Site Laminated Identification Badges:** The **Contractor** shall provide laminated identification badges which include a photograph of the worker's, laborer's or mechanic's face and indicate the worker's, laborer's or mechanic's name, trade, employer's name, and employment starting date (month/day/year). Further, the **Contractor** shall require as a condition of employment on the **Site**, that each and every worker, laborer or mechanic wear the laminated identification badge at all times and that it may be seen by any representative of the **City**. The **Commissioner** may grant a written waiver from the requirement that the laminated identification badge include a photograph if the **Contractor** demonstrates that the identity of an individual wearing a laminated identification badge can be easily verified by another method; and

37.6.5 **Language Other Than English Used On Site:** Provide the **ACCO** notice when three (3) or more employees (worker and/or laborer and/or mechanic) on the **Site**, at any time, speak a language other than English. The **ACCO** will then provide the **Contractor** the notices described in Article 37.6.1 in that language or languages as may be required. The **Contractor** is responsible for all distributions under this Article 37; and

37.6.6 **Provision of Records:** The **Contractor** and **Subcontractor(s)** shall produce within five (5) **Days** on the **Site** of the **Work** and upon a written order of the **Engineer**, the **Commissioner**, the **ACCO**, the **Agency EAO**, or the **Comptroller**, such records as are required to be kept by this Article 37.6; and

37.6.7 The **Contractor** and **Subcontractor(s)** shall pay employees by check or direct deposit. If this **Contract** is for an amount greater than one million (\$1,000,000) dollars, checks issued by the **Contractor** to covered employees shall be generated by a payroll service or automated payroll system (an in-house system may be used if approved by the **Agency**). For any subcontract for an amount greater than seven hundred fifty thousand (\$750,000) dollars, checks issued by a **Subcontractor** to covered employees shall be generated by a payroll service or automated payroll system (an in-house system may be used if approved by the **Agency**); and

37.6.8 The failure of the **Contractor** or **Subcontractor(s)** to comply with the provisions of Articles 37.6.1 through 37.6.7 may result in the **Commissioner** declaring the **Contractor** in default and/or the withholding of payments otherwise due under the **Contract**.

37.7 The **Contractor** and its **Subcontractors** shall keep such employment and payroll records as are required by Section 220 of the Labor Law. The failure of the **Contractor** or **Subcontractor(s)** to comply with the provisions of this Article 37.7 may result in the **Commissioner** declaring the **Contractor** in default and/or the withholding of payments otherwise due under the **Contract**.

37.8 At the time the **Contractor** makes application for each partial payment and for final payment, the **Contractor** shall submit to the **Commissioner** a written payroll certification, in the form provided by this **Contract**, of compliance with the prevailing wage, minimum wage, and other provisions and stipulations required by Labor Law Section 220 and of compliance with the training requirements of Labor Law Section 220-h set forth in Article 35.2. This certification of compliance shall be a condition precedent to payment and no payment shall be made to the **Contractor** unless and until each such certification shall have been submitted to and received by the **Commissioner**.

37.9 This **Contract** is executed by the **Contractor** with the express warranty and representation that the **Contractor** is not disqualified under the provisions of Section 220 of the Labor Law from the award of the **Contract**.

37.10 Any breach or violation of any of the foregoing shall be deemed a breach or violation of a material provision of this **Contract**, and grounds for cancellation thereof by the **City**.

ARTICLE 38. PAYROLL REPORTS

38.1 The **Contractor** and its **Subcontractor(s)** shall maintain on the **Site** during the performance of the **Work** the original payrolls or transcripts thereof which the **Contractor** and its **Subcontractor(s)** are required to maintain and shall submit such original payrolls or transcripts, subscribed and affirmed by it as true, within thirty (30) **Days** after issuance of its first payroll, and every thirty (30) **Days** thereafter, pursuant to Labor Law Section 220(3-a)(a)(iii). The **Contractor** and **Subcontractor(s)** shall submit such original payrolls or transcripts along with each and every payment requisition. If payment requisitions are not submitted at least once a month, the **Contractor** and its **Subcontractor(s)** shall submit original payrolls and transcripts both along with its payment requisitions and independently of its payment requisitions.

38.2 The **Contractor** shall maintain payrolls or transcripts thereof for six (6) years from the date of completion of the **Work** on this **Contract**. If such payrolls and transcripts are maintained outside of New York City after the completion of the **Work** and their production is required pursuant to this Article 38, the **Contractor** shall produce such records in New York City upon request by the **City**.

38.3 The **Contractor** and **Subcontractor(s)** shall comply with any written order, direction, or request made by the **Engineer**, the **Commissioner**, the **ACCO**, the **Agency EAO**, the **Agency Labor Law Investigator(s)**, or the **Comptroller**, to provide to the requesting party any of the following information and/or records within five (5) **Days** of such written order, direction, or request:

38.3.1 Such original payrolls or transcripts thereof subscribed and affirmed by it as true and the statements signed by each worker pursuant to this Chapter VIII; and/or

38.3.2 Attendance sheets for each **Day** on which any employee of the **Contractor** and/or any of the **Subcontractor(s)** performed **Work** on the **Site**, which attendance sheet shall be in a form acceptable to the **Agency** and shall provide information acceptable to the **Agency** to identify each such employee; and/or

38.3.3 Any other information to satisfy the **Engineer**, the **Commissioner**, the **ACCO**, the **Agency EAO**, the **Agency Labor Law Investigator(s)** or the **Comptroller**, that this Chapter VIII and the Labor Law, as to the hours of employment and prevailing rates of wages and/or supplemental benefits, are being observed.

38.4 The failure of the **Contractor** or **Subcontractor(s)** to comply with the provisions of Articles 38.1 and/or 38.2 may result in the **Commissioner** declaring the **Contractor** in default and/or the withholding of payments otherwise due under the **Contract**.

ARTICLE 39. DUST HAZARDS

39.1 Should a harmful dust hazard be created in performing the **Work** of this **Contract**, for the elimination of which appliances or methods have been approved by the Board of Standards and Appeals

of the City of New York, such appliances and methods shall be installed, maintained, and effectively operated during the continuance of such harmful dust hazard. Failure to comply with this provision after notice shall make this **Contract** voidable at the sole discretion of the **City**.

CHAPTER IX: PARTIAL AND FINAL PAYMENTS

ARTICLE 40. CONTRACT PRICE

40.1 The **City** shall pay, and the **Contractor** agrees to accept, in full consideration for the **Contractor's** performance of the **Work** subject to the terms and conditions hereof, the lump sum price or unit prices for which this **Contract** was awarded, plus the amount required to be paid for any **Extra Work** ordered by the **Commissioner** under Article 25, less credit for any **Work** omitted pursuant to Article 29.

ARTICLE 41. BID BREAKDOWN ON LUMP SUM

41.1 Within fifteen (15) **Days** after the commencement date specified in the **Notice to Proceed** or **Order to Work**, unless otherwise directed by the **Resident Engineer**, the **Contractor** shall submit to the **Resident Engineer** a breakdown of its bid price, or of lump sums bid for items of the **Contract**, showing the various operations to be performed under the **Contract**, as directed in the progress schedule required under Article 9, and the value of each of such operations, the total of such items to equal the lump sum price bid. Said breakdown must be approved in writing by the **Resident Engineer**.

41.2 No partial payment will be approved until the **Contractor** submits a bid breakdown that is acceptable to the **Resident Engineer**.

41.3 The **Contractor** shall also submit such other information relating to the bid breakdown as directed by the **Resident Engineer**. Thereafter, the breakdown may be used only for checking the **Contractor's** applications for partial payments hereunder, but shall not be binding upon the **City**, the **Commissioner**, or the **Engineer** for any purpose whatsoever.

ARTICLE 42. PARTIAL PAYMENTS

42.1 From time to time as the **Work** progresses satisfactorily, but not more often than once each calendar month (except where the **Commissioner** approves in writing the submission of invoices on a more frequent basis and for invoices relating to **Work** performed pursuant to a change order), the **Contractor** may submit to the **Engineer** a requisition for a partial payment in the prescribed form, which shall contain an estimate of the quantity and the fair value of the **Work** done during the payment period.

42.2 Partial payments may be made for materials, fixtures, and equipment in advance of their actual incorporation in the **Work**, as the **Commissioner** may approve, and upon the terms and conditions set forth in the General Conditions.

42.3 The **Contractor** shall also submit to the **Commissioner** in connection with every application for partial payment a verified statement in the form prescribed by the **Comptroller** setting forth the information required under Labor Law Section 220-a.

42.4 Within thirty (30) **Days** after receipt of a satisfactory payment application, and within sixty (60) **Days** after receipt of a satisfactory payment application in relation to **Work** performed pursuant to a change order, the **Engineer** will prepare and certify, and the **Commissioner** will approve, a voucher for a partial payment in the amount of such approved estimate, less any and all deductions authorized to be made by the **Commissioner** under the terms of this **Contract** or by **Law**.

ARTICLE 43. PROMPT PAYMENT

43.1 The Prompt Payment provisions of the **PPB** Rules in effect at the time of the bid will be applicable to payments made under this **Contract**. The provisions require the payment to the **Contractor** of interest on payments made after the required payment date, except as set forth in the **PPB** Rules.

43.2 The **Contractor** shall submit a proper invoice to receive payment, except where the **Contract** provides that the **Contractor** will be paid at predetermined intervals without having to submit an invoice for each scheduled payment.

43.3 Determination of interest due will be made in accordance with the **PPB** Rules.

43.4 If the **Contractor** is paid interest, the proportionate share(s) of that interest shall be forwarded by the **Contractor** to its **Subcontractor(s)**.

43.5 The **Contractor** shall pay each **Subcontractor** or **Materialman** not later than seven (7) **Days** after receipt of payment out of amounts paid to the **Contractor** by the **City** for **Work** performed by the **Subcontractor** or **Materialman** under this **Contract**.

43.5.1 If **Contractor** fails to make any payment to any **Subcontractor** or **Materialman** within seven (7) **Days** after receipt of payment by the **City** pursuant to this Article 43.5, then the **Contractor** shall pay interest on amounts due to such **Subcontractor** or **Materialman** at the rate of interest in effect on the date such payment is made by the **Contractor** computed in accordance with Section 756-b (1)(b) of the New York General Business Law. Accrual of interest shall commence on the **Day** immediately following the expiration of the seventh **Day** following receipt of payment by the **Contractor** from the **City** and shall end on the date on which payment is made.

43.6 The **Contractor** shall include in each of its subcontracts a provision requiring each **Subcontractor** to make payment to each of its **Subcontractors** or **Materialmen** for **Work** performed under this **Contract** in the same manner and within the same time period set forth above.

ARTICLE 44. SUBSTANTIAL COMPLETION PAYMENT

44.1 The **Contractor** shall submit with the **Substantial Completion** requisition:

44.1.1 A final verified statement of any pending Article 27 disputes in accordance with the **PPB** Rules and this **Contract** and any and all alleged claims against the **City**, in any way connected with or arising out of this **Contract** (including those as to which details may have been furnished pursuant to Articles 11, 27, 28, and 30) setting forth with respect to each such claim the total amount thereof, the various items of labor and materials included therein, and the alleged value of each item; and if the alleged claim be one for delay, the alleged cause of each such delay, the period or periods of time, giving the dates when the

Contractor claims the performance of the **Work** or a particular part thereof was delayed, and an itemized statement and breakdown of the amount claimed for each such delay.

44.1.1(a) With respect to each such claim, the **Commissioner**, the **Comptroller** and, in the event of litigation, the **City** Corporation Counsel shall have the same right to inspect, and to make extracts or copies of, the **Contractor's** books, vouchers, records, etc., as is referred to in Articles 11, 27, 28, and 30. Nothing contained in this Article 44.1.1(a) is intended to or shall relieve the **Contractor** from the obligation of complying strictly with Articles 11, 27, 28, and 30. The **Contractor** is warned that unless such claims are completely set forth as herein required, the **Contractor** upon acceptance of the **Substantial Completion** payment pursuant to this Article 44, will have waived any such claims.

44.1.2 A **Final Approved Punch List**.

44.1.3 Where required, a request for an extension of time to achieve **Substantial Completion** or final extension of time.

44.2 The **Commissioner** shall issue a voucher calling for payment of any part or all of the balance due for **Work** performed under the **Contract**, including monies retained under Article 21, less any and all deductions authorized to be made by the **Commissioner**, under this **Contract** or by **Law**, and less twice the amount the **Commissioner** considers necessary to ensure the completion of the balance of the **Work** by the **Contractor**. Such a payment shall be considered a partial and not a final payment. No **Substantial Completion** payment shall be made under this Article 44 where the **Contractor** failed to complete the **Work** within the time fixed for such completion in the Schedule A of the General Conditions, or within the time to which completion may have been extended, until an extension or extensions of time for the completion of **Work** have been acted upon pursuant to Article 13.

44.3 No further partial payments shall be made to the **Contractor** after **Substantial Completion**, except the **Substantial Completion** payment and payment pursuant to any **Contractor's** requisition that were properly filed with the **Commissioner** prior to the date of **Substantial Completion**; however, the **Commissioner** may grant a waiver for further partial payments after the date of **Substantial Completion** to permit payments for change order **Work** and/or release of retainage and deposits pursuant to Articles 21 and 24. Such waiver shall be in writing.

44.4 The **Contractor** acknowledges that nothing contained in this Article 44 is intended to or shall in any way diminish the force and effect of Article 13.

ARTICLE 45. FINAL PAYMENT

45.1 After completion and **Final Acceptance** of the **Work**, the **Contractor** shall submit all required certificates and documents, together with a requisition for the balance claimed to be due under the **Contract**, less the amount authorized to be retained for maintenance under Article 24. Such submission shall be within 90 days of the date of the **Commissioner's** written determination of **Final Acceptance**, or within such additional time as may be granted by the **Commissioner** in writing. If the **Contractor** fails to submit all required certificates and documents within the time allowed, no payment of the balance claimed shall be made to the **Contractor** and the **Contractor** shall be deemed to have forfeited its right to payment of any balance claimed. A verified statement similar to that required in connection with applications for partial payments shall also be submitted to the **Commissioner**.

45.2 Amended Verified Statement of Claims: The **Contractor** shall also submit with the final requisition any amendments to the final verified statement of any pending dispute resolution procedures in accordance with the **PPB** Rules and this **Contract** and any and all alleged claims against the **City**, in any way connected with or arising out of this **Contract** (including those as to which details may have been furnished pursuant to Articles 11, 27, 28, and 30) that have occurred subsequent to **Substantial Completion**, setting forth with respect to each such claim the total amount thereof, the various items of labor and materials included therein, and the alleged value of each such item; and if the alleged claim be one for delay, the alleged cause of each such delay, the period or periods of time, giving the dates when the **Contractor** claims the performance of the **Work** or a particular part thereof was delayed, and an itemized statement and breakdown of the amount claimed for each such delay. With reference to each such claim, the **Commissioner**, the **Comptroller** and, in the event of litigation, the **City** Corporation Counsel shall have the same right to inspect, and to make extracts or copies of, the **Contractor's** books, vouchers, records, etc., as is referred to in Articles 11, 27, 28, and 30. Nothing contained in this Article 45.2, is intended to or shall relieve the **Contractor** from the obligation of complying strictly with Articles 11, 27, 28, and 30. The **Contractor** is warned that unless such claims are completely set forth as herein required, the **Contractor**, upon acceptance of the Final Payment pursuant to Article 46, will have waived any such claims.

45.3 Preparation of Final Voucher: Upon determining the balance due hereunder other than on account of claims, the **Engineer** will prepare and certify, for the Commissioner's approval, a voucher for final payment in that amount less any and all deductions authorized to be made by the **Commissioner** under this **Contract** or by **Law**. In the case of a lump sum **Contract**, the **Commissioner** shall certify the voucher for final payment within thirty (30) **Days** from the date of completion and acceptance of the **Work**, provided all requests for extensions of time have been acted upon.

45.3.1 All prior certificates and vouchers upon which partial payments were made, being merely estimates made to enable the **Contractor** to prosecute the **Work** more advantageously, shall be subject to correction in the final voucher, and the certification of the **Engineer** thereon and the approval of the **Commissioner** thereof, shall be conditions precedent to the right of the **Contractor** to receive any money hereunder. Such final voucher shall be binding and conclusive upon the **Contractor**.

45.3.2 Payment pursuant to such final voucher, less any deductions authorized to be made by the **Commissioner** under this **Contract** or by **Law**, shall constitute the final payment, and shall be made by the **Comptroller** within thirty (30) **Days** after the filing of such voucher in his/her office.

45.4 The **Contractor** acknowledges that nothing contained in this Article 45 is intended to or shall in any way diminish the force and effect of Article 13.

ARTICLE 46. ACCEPTANCE OF FINAL PAYMENT

46.1 The acceptance by the **Contractor**, or by anyone claiming by or through it, of the final payment, whether such payment be made pursuant to any judgment of any court, or otherwise, shall constitute and operate as a release of the **City** from any and all claims of and liability to the **Contractor** for anything heretofore done or furnished for the **Contractor** relating to or arising out of this **Contract** and the **Work** done hereunder, and for any prior act, neglect or default on the part of the **City** or any of its officials, agents or employees, excepting only a claim against the **City** for the amounts deducted or retained in accordance with the terms and provisions of this **Contract** or by **Law**, and excepting any claims, not otherwise waived, or any pending dispute resolution procedures which are contained in the

verified statement filed with the **Contractor's** substantial and final requisitions pursuant to Articles 44 and 45.

46.2 The **Contractor** is warned that the execution by it of a release, in connection with the acceptance of the final payment, containing language purporting to reserve claims other than those herein specifically excepted from the operation of this Article 46, or those for amounts deducted by the **Commissioner** from the final requisition or from the final payment as certified by the **Engineer** and approved by the **Commissioner**, shall not be effective to reserve such claims, anything stated to the **Contractor** orally or in writing by any official, agent or employee of the **City** to the contrary notwithstanding.

46.3 Should the **Contractor** refuse to accept the final payment as tendered by the **Comptroller**, it shall constitute a waiver of any right to interest thereon.

46.4 The **Contractor**, however, shall not be barred by this Article 46 from commencing an action for breach of **Contract** to the extent permitted by **Law** and by the terms of the **Contract** for any claims that are contained in the verified statement filed with the **Contractor's** substantial and final requisitions pursuant to Articles 44 and 45 or that arose after submission of the final payment requisition, provided that a detailed and verified statement of claim is served upon the contracting **Agency** and **Comptroller** not later than forty (40) **Days** after the making of such final payment by electronic funds transfer (EFT) or the mailing of such final payment. The statement shall specify the items upon which the claim will be based and any such claim shall be limited to such items.

ARTICLE 47. APPROVAL BY PUBLIC DESIGN COMMISSION

47.1 All works of art, including paintings, mural decorations, stained glass, statues, bas-reliefs, and other sculptures, monuments, fountains, arches, and other structures of a permanent character intended for ornament or commemoration, and every design of the same to be used in the performance of this **Contract**, and the design of all bridges, approaches, buildings, gates, fences, lamps, or structures to be erected, pursuant to the terms of this **Contract**, shall be submitted to the Art Commission, d/b/a the Public Design Commission of the City of New York, and shall be approved by the Public Design Commission prior to the erection or placing in position of the same. The final payment shall not become due or payable under this **Contract** unless and until the Public Design Commission shall certify that the design for the **Work** herein contracted for has been approved by the said Public Design Commission, and that the same has been executed in substantial accordance with the design so approved, pursuant to the provisions of Chapter 37, Section 854 of the **City** Charter, as amended.

CHAPTER X: CONTRACTOR'S DEFAULT

ARTICLE 48. COMMISSIONER'S RIGHT TO DECLARE CONTRACTOR IN DEFAULT

48.1 In addition to those instances specifically referred to in other Articles herein, the **Commissioner** shall have the right to declare the **Contractor** in default of this **Contract** if:

48.1.1 The **Contractor** fails to commence **Work** when notified to do so by the **Commissioner**; or if

48.1.2 The **Contractor** shall abandon the **Work**; or if

48.1.3 The **Contractor** shall refuse to proceed with the **Work** when and as directed by the **Commissioner**; or if

48.1.4 The **Contractor** shall, without just cause, reduce its working force to a number which, if maintained, would be insufficient, in the opinion of the **Commissioner**, to complete the **Work** in accordance with the progress schedule; or if

48.1.5 The **Contractor** shall fail or refuse to increase sufficiently such working force when ordered to do so by the **Commissioner**; or if

48.1.6 The **Contractor** shall sublet, assign, transfer, convert or otherwise dispose of this **Contract** other than as herein specified; or sell or assign a majority interest in the **Contractor**; or if

48.1.7 The **Contractor** fails to secure and maintain all required insurance; or if

48.1.8 A receiver or receivers are appointed to take charge of the **Contractor's** property or affairs; or if

48.1.9 The **Commissioner** shall be of the opinion that the **Contractor** is or has been unnecessarily or unreasonably or willfully delaying the performance and completion of the **Work**, or the award of necessary subcontracts, or the placing of necessary material and equipment orders; or if

48.1.10 The **Commissioner** shall be of the opinion that the **Contractor** is or has been willfully or in bad faith violating any of the provisions of this **Contract**; or if

48.1.11 The **Commissioner** shall be of the opinion that the **Work** cannot be completed within the time herein provided therefor or within the time to which such completion may have been extended; provided, however, that the impossibility of timely completion is, in the **Commissioner's** opinion, attributable to conditions within the **Contractor's** control; or if

48.1.12 The **Work** is not completed within the time herein provided therefor or within the time to which the **Contractor** may be entitled to have such completion extended; or if

48.1.13 Any statement or representation of the **Contractor** in the **Contract** or in any document submitted by the **Contractor** with respect to the **Work**, the **Project**, or the **Contract** (or for purposes of securing the **Contract**) was untrue or incorrect when made; or if

48.1.14 The **Contractor** or any of its officers, directors, partners, five (5%) percent shareholders, principals, or other persons substantially involved in its activities, commits any of the acts or omissions specified as the grounds for debarment in the **PPB Rules**.

48.2 Before the **Commissioner** shall exercise his/her right to declare the **Contractor** in default, the **Commissioner** shall give the **Contractor** an opportunity to be heard, upon not less than two (2) **Days'** notice.

ARTICLE 49. EXERCISE OF THE RIGHT TO DECLARE DEFAULT

49.1 The right to declare the **Contractor** in default for any of the grounds specified or referred to in Article 48 shall be exercised by sending the **Contractor** a notice, signed by the **Commissioner**, setting forth the ground or grounds upon which such default is declared (hereinafter referred to as a "Notice of Default").

49.2 The **Commissioner's** determination that the **Contractor** is in default shall be conclusive, final, and binding on the parties and such a finding shall preclude the **Contractor** from commencing a plenary action for any damages relating to the **Contract**. If the **Contractor** protests the determination of the **Commissioner**, the **Contractor** may commence an action in a court of competent jurisdiction of the State of New York under Article 78 of the New York Civil Practice Law and Rules.

ARTICLE 50. QUITTING THE SITE

50.1 Upon receipt of such notice the **Contractor** shall immediately discontinue all further operations under this **Contract** and shall immediately quit the **Site**, leaving untouched all plant, materials, equipment, tools, and supplies then on the **Site**.

ARTICLE 51. COMPLETION OF THE WORK

51.1 The **Commissioner**, after declaring the **Contractor** in default, may then have the **Work** completed by such means and in such manner, by contract with or without public letting, or otherwise, as he/she may deem advisable, utilizing for such purpose such of the **Contractor's** plant, materials, equipment, tools, and supplies remaining on the **Site**, and also such **Subcontractors**, as he/she may deem advisable.

51.2 After such completion, the **Commissioner** shall make a certificate stating the expense incurred in such completion, which shall include the cost of re-letting and also the total amount of liquidated damages (at the rate provided for in the **Contract**) from the date when the **Work** should have been completed by the **Contractor** in accordance with the terms hereof to the date of actual completion of the **Work**. Such certificate shall be binding and conclusive upon the **Contractor**, its sureties, and any person claiming under the **Contractor**, as to the amount thereof.

51.3 The expense of such completion, including any and all related and incidental costs, as so certified by the **Commissioner**, and any liquidated damages assessed against the **Contractor**, shall be charged against and deducted out of monies which are earned by the **Contractor** prior to the date of default. Should the expense of such completion, as certified by the **Commissioner**, exceed the total sum which would have been payable under the **Contract** if it had been completed by the **Contractor**, any excess shall be paid by the **Contractor**.

ARTICLE 52. PARTIAL DEFAULT

52.1 In case the **Commissioner** shall declare the **Contractor** in default as to a part of the **Work** only, the **Contractor** shall discontinue such part, shall continue performing the remainder of the **Work** in strict conformity with the terms of this **Contract**, and shall in no way hinder or interfere with any **Other Contractor(s)** or persons whom the **Commissioner** may engage to complete the **Work** as to which the **Contractor** was declared in default.

52.2 The provisions of this Chapter relating to declaring the **Contractor** in default as to the entire **Work** shall be equally applicable to a declaration of partial default, except that the **Commissioner** shall be entitled to utilize for completion of the part of the **Work** as to which the **Contractor** was declared in default only such plant, materials, equipment, tools, and supplies as had been previously used by the **Contractor** on such part.

ARTICLE 53. PERFORMANCE OF UNCOMPLETED WORK

53.1 In completing the whole or any part of the **Work** under the provisions of this Chapter X, the **Commissioner** shall have the power to depart from or change or vary the terms and provisions of this **Contract**, provided, however, that such departure, change or variation is made for the purpose of reducing the time or expense of such completion. Such departure, change or variation, even to the extent of accepting a lesser or different performance, shall not affect the conclusiveness of the **Commissioner's** certificate of the cost of completion referred to in Article 51, nor shall it constitute a defense to an action to recover the amount by which such certificate exceeds the amount which would have been payable to the **Contractor** hereunder but for its default.

ARTICLE 54. OTHER REMEDIES

54.1 In addition to the right to declare the **Contractor** in default pursuant to this Chapter X, the **Commissioner** shall have the absolute right, in his/her sole discretion and without a hearing, to complete or cause to be completed in the same manner as described in Articles 51 and 53, any or all unsatisfactory or uncompleted punch list **Work** that remains after the completion date specified in the **Final Approved Punch List**. A written notice of the exercise of this right shall be sent to the **Contractor** who shall immediately quit the **Site** in accordance with the provisions of Article 50.

54.2 The expense of completion permitted under Article 54.1, including any and all related and incidental costs, as so certified by the **Commissioner**, shall be charged against and deducted out of monies which have been earned by the **Contractor** prior to the date of the exercise of the right set forth in Article 54.1; the balance of such monies, if any, subject to the other provisions of this **Contract**, to be paid to the **Contractor** without interest after such completion. Should the expense of such completion, as certified by the **Commissioner**, exceed the total sum which would have been payable under the **Contract** if it had been completed by the **Contractor**, any excess shall be paid by the **Contractor**.

54.3 The previous provisions of this Chapter X shall be in addition to any and all other remedies available under **Law** or in equity.

54.4 The exercise by the **City** of any remedy set forth herein shall not be deemed a waiver by the **City** of any other legal or equitable remedy contained in this **Contract** or provided under **Law**.

CHAPTER XI: MISCELLANEOUS PROVISIONS

ARTICLE 55. CONTRACTOR'S WARRANTIES

55.1 In consideration of, and to induce, the award of this **Contract** to the **Contractor**, the **Contractor** represents and warrants:

55.1.1 That it is financially solvent, sufficiently experienced and competent to perform the **Work**; and

55.1.2 That the facts stated in its bid and the information given by it pursuant to the Information for Bidders is true and correct in all respects; and

55.1.3 That it has read and complied with all requirements set forth in the **Contract**.

ARTICLE 56. CLAIMS AND ACTIONS THEREON

56.1 Any claim, that is not subject to dispute resolution under the **PPB** Rules or this **Contract**, against the **City** for damages for breach of **Contract** shall not be made or asserted in any action, unless the **Contractor** shall have strictly complied with all requirements relating to the giving of notice and of information with respect to such claims, as herein before provided.

56.2 Nor shall any action be instituted or maintained on any such claims unless such action is commenced within six (6) months after **Substantial Completion**; except that:

56.2.1 Any claims arising out of events occurring after **Substantial Completion** and before **Final Acceptance** of the **Work** shall be asserted within six (6) months of **Final Acceptance** of the **Work**;

56.2.2 If the **Commissioner** exercises his/her right to complete or cause to complete any or all unsatisfactory or uncompleted punch list **Work** that remains after the completion date specified in the **Final Approved Punch List** pursuant to Article 54, any such action shall be commenced within six (6) months from the date the **Commissioner** notifies the **Contractor** in writing that he/she has exercised such right. Any claims for monies deducted, retained or withheld under the provisions of this **Contract** shall be asserted within six (6) months after the date when such monies otherwise become due and payable hereunder; and

56.2.3 If the **Commissioner** exercises his/her right to terminate the **Contract** pursuant to Article 64, any such action shall be commenced within six (6) months of the date the **Commissioner** exercises said right.

ARTICLE 57. INFRINGEMENT

57.1 The **Contractor** shall be solely responsible for and shall defend, indemnify, and hold the **City** harmless from any and all claims (even if the allegations of the lawsuit are without merit) and judgments for damages and from costs and expenses to which the **City** may be subject to or which it may suffer or incur allegedly arising out of or in connection with any infringement by the **Contractor** of any copyright, trade secrets, trademark or patent rights or any other property or personal right of any third party by the **Contractor** and/or its **Subcontractors** in the performance or completion of the **Work**. Insofar as the facts or **Law** relating to any claim would preclude the **City** from being completely indemnified by the **Contractor**, the **City** shall be partially indemnified by the **Contractor** to the fullest extent permitted by **Law**.

ARTICLE 58. NO CLAIM AGAINST OFFICIALS, AGENTS OR EMPLOYEES

58.1 No claim whatsoever shall be made by the **Contractor** against any official, agent or employee of the **City** for, or on account of, anything done or omitted to be done in connection with this **Contract**.

ARTICLE 59. SERVICE OF NOTICES

59.1 The **Contractor** hereby designates the business address, fax number, and email address specified in its bid, as the place where all notices, directions or other communications to the **Contractor** may be delivered, or to which they may be mailed. Any notice, direction, or communication from either party to the other shall be in writing and shall be deemed to have been given when (i) delivered personally; (ii) sent by certified mail, return receipt requested; (iii) delivered by overnight or same day courier service in a properly addressed envelope with confirmation; or (iv) sent by fax or email and, unless receipt of the fax or e-mail is acknowledged by the recipient by fax or e-mail, deposited in a post office box regularly maintained by the United States Postal Service in a properly addressed, postage prepaid envelope.

59.2 **Contractor's** notice address, email address, or fax number may be changed at any time by an instrument in writing, executed and acknowledged by the **Contractor**, and delivered to the **Commissioner**.

59.3 Nothing herein contained shall, however, be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the **Contractor** personally, or, if the **Contractor** is a corporation, upon any officer thereof.

ARTICLE 60. UNLAWFUL PROVISIONS DEEMED STRICKEN FROM CONTRACT

60.1 If this **Contract** contains any unlawful provision not an essential part of the **Contract** and which shall not appear to have been a controlling or material inducement to the making thereof, the same shall be deemed of no effect and shall, upon notice by either party, be deemed stricken from the **Contract** without affecting the binding force of the remainder.

ARTICLE 61. ALL LEGAL PROVISIONS DEEMED INCLUDED

61.1 It is the intent and understanding of the parties to this **Contract** that each and every provision of **Law** required to be inserted in this **Contract** shall be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein, and if, through mistake or otherwise, any such provision is not inserted, or is not inserted in correct form, then this **Contract** shall forthwith upon the application of either party be amended by such insertion so as to comply strictly with the **Law** and without prejudice to the rights of either party hereunder.

ARTICLE 62. TAX EXEMPTION

62.1 The **City** is exempt from payment of Federal, State, and local taxes, including sales and compensating use taxes of the State of New York and its cities and counties on all tangible personal property sold to the **City** pursuant to the provisions of this **Contract**. These taxes are not to be included in bids. However, this exemption does not apply to tools, machinery, equipment or other property leased by or to the **Contractor**, **Subcontractor** or **Materialman** or to tangible personal property which, even

though it is consumed, is not incorporated into the completed **Work** (consumable supplies) and tangible personal property that the **Contractor** is required to remove from the **Site** during or upon completion of the **Work**. The **Contractor** and its **Subcontractors** and **Materialmen** shall be responsible for and pay any and all applicable taxes, including sales and compensating use taxes, on such leased tools, machinery, equipment or other property and upon all such consumable supplies and tangible personal property that the **Contractor** is required to remove from the **Site** during or upon completion of the **Work**.

62.2 The **Contractor** agrees to sell and the **City** agrees to purchase all tangible personal property, other than consumable supplies and other tangible personal property that the **Contractor** is required to remove from the **Site** during or upon completion of the **Work**, that is required, necessary or proper for or incidental to the construction of the **Project** covered by this **Contract**. The sum paid under this **Contract** for such tangible personal property shall be in full payment and consideration for the sale of such tangible personal property.

62.2.1 The **Contractor** agrees to construct the **Project** and to perform all **Work**, labor and services rendered, necessary, proper or incidental thereto for the sum shown in the bid for the performance of such **Work**, labor, and services, and the sum so paid pursuant to this **Contract** for such **Work**, labor, and services, shall be in full consideration for the performance by the **Contractor** of all its duties and obligations under this **Contract** in connection with said **Work**, labor, and services.

62.3 20 NYCRR Section 541.3(d) provides that a **Contractor's** purchases of tangible personal property that is either incorporated into real property owned by a governmental entity or purchased for and sold to a governmental entity are exempt from sales and use tax. The **City** shall not pay sales tax for any such tangible personal property that it purchases from the **Contractor** pursuant to the **Contract**. With respect to such tangible personal property, the **Contractor**, at the request of the **City**, shall furnish to the **City** such bills of sale and other instruments as may be required by the **City**, properly executed, acknowledged and delivered assuring to the **City** title to such tangible personal property, free of liens and/or encumbrances, and the **Contractor** shall mark or otherwise identify all such tangible personal property as the property of the **City**.

62.4 Title to all tangible personal property to be sold by the **Contractor** to the **City** pursuant to the provisions of the **Contract** shall immediately vest in and become the sole property of the **City** upon delivery of such tangible personal property to the **Site**. Notwithstanding such transfer of title, the **Contractor** shall have the full and continuing responsibility to install such tangible personal property in accordance with the provisions of this **Contract**, protect it, maintain it in a proper condition and forthwith repair, replace and make good any damage thereto, theft or disappearance thereof, and furnish additional tangible personal property in place of any that may be lost, stolen or rendered unusable, without cost to the **City**, until such time as the **Work** covered by the **Contract** is fully accepted by the **City**. Such transfer of title shall in no way affect any of the **Contractor's** obligations hereunder. In the event that, after title has passed to the **City**, any of the tangible personal property is rejected as being defective or otherwise unsatisfactory, title to all such tangible personal property shall be deemed to have been transferred back to the **Contractor**.

62.5 The purchase by **Subcontractors** or **Materialmen** of tangible personal property to be sold hereunder shall be a purchase or procurement for resale to the **Contractor** (either directly or through other **Subcontractors**) and therefore not subject to the aforesaid sales and compensating use taxes, provided that the subcontracts and purchase agreements provide for the resale of such tangible personal property and that such subcontracts and purchase agreements are in a form similar to this **Contract** with respect to the separation of the sale of consumable supplies and tangible personal property that the

Contractor is required to remove from the **Site** during or upon completion of the **Work** from the **Work** and labor, services, and any other matters to be provided, and provided further that the subcontracts and purchase agreements provide separate prices for tangible personal property and all other services and matters. Such separation shall actually be followed in practice, including the separation of payments for tangible personal property from the payments for other **Work** and labor and other things to be provided.

62.6 The **Contractor** and its **Subcontractors** and **Materialmen** shall furnish a **Contractor** Exempt Purchase Certificate to all persons, firms or corporations from which they purchase tangible personal property for the performance of the **Work** covered by this **Contract**.

62.7 In the event any of the provisions of this Article 62 shall be deemed to be in conflict with any other provisions of this **Contract** or create any ambiguity, then the provisions of this Article 62 shall control.

ARTICLE 63. INVESTIGATION(S) CLAUSE

63.1 The parties to this **Contract** agree to cooperate fully and faithfully with any investigation, audit or inquiry conducted by a United States, a State of New York (State) or a **City** governmental agency or authority that is empowered directly or by designation to compel the attendance of witnesses and to examine witnesses under oath, or conducted by the Inspector General of a governmental agency that is a party in interest to the transaction, submitted bid, submitted proposal, contract, lease, permit or license that is the subject of the investigation, audit or inquiry.

63.2 If any person who has been advised that his/her statement, and any information from such statement, will not be used against him/her in any subsequent criminal proceeding refuses to testify before a grand jury or other governmental agency or authority empowered directly or by designation to compel the attendance of witnesses and to examine witnesses under oath concerning the award of or performance under any transaction, agreement, lease, permit, contract, or license entered into with the **City**, the State, or any political subdivision or public authority thereof, or the Port Authority of New York and New Jersey, or any local development corporation within the **City**, or any public benefit corporation organized under the **Laws** of the State of New York, or;

63.3 If any person refuses to testify for a reason other than the assertion of his/her privilege against self incrimination in an investigation, audit or inquiry conducted by a **City** or State governmental agency or authority empowered directly or by designation to compel the attendance of witnesses and to take testimony under oath, or by the Inspector General of the governmental agency that is a party in interest in, and is seeking testimony concerning the award of, or performance under any transaction, agreement, lease, permit, contract, or license entered into with the **City**, the State, or any political subdivision thereof or any local development corporation within the **City**, then;

63.4 The **Commissioner** whose **Agency** is a party in interest to the transaction, submitted bid, submitted proposal, contract, lease, permit, or license shall convene a hearing, upon not less than five (5) **Days'** written notice to the parties involved to determine if any penalties should attach for the failure of a person to testify.

63.5 If any non-governmental party to the hearing requests an adjournment, the **Commissioner** who convened the hearing may, upon granting the adjournment, suspend any contract, lease, permit, or license, pending the final determination pursuant to Article 63.7 without the **City** incurring any penalty or damages for delay or otherwise.

63.6 The penalties which may attach after a final determination by the **Commissioner** may include but shall not exceed:

63.6.1 The disqualification for a period not to exceed five (5) years from the date of an adverse determination for any person, or any entity of which such person was a member at the time the testimony was sought, from submitting bids for, or transacting business with, or entering into or obtaining any contract, lease, permit or license with or from the **City**; and/or

63.6.2 The cancellation or termination of any and all such existing **City** contracts, leases, permits or licenses that the refusal to testify concerns and that have not been assigned as permitted under this **Contract**, nor the proceeds of which pledged, to an unaffiliated and unrelated institutional lender for fair value prior to the issuance of the notice scheduling the hearing, without the **City** incurring any penalty or damages on account of such cancellation or termination; monies lawfully due for goods delivered, work done, rentals, or fees accrued prior to the cancellation or termination shall be paid by the **City**.

63.7 The **Commissioner** shall consider and address in reaching his/her determination and in assessing an appropriate penalty the factors in Articles 63.7.1 and 63.7.2. The **Commissioner** may also consider, if relevant and appropriate, the criteria established in Articles 63.7.3 and 63.7.4, in addition to any other information which may be relevant and appropriate:

63.7.1 The party's good faith endeavors or lack thereof to cooperate fully and faithfully with any governmental investigation or audit, including but not limited to the discipline, discharge, or disassociation of any person failing to testify, the production of accurate and complete books and records, and the forthcoming testimony of all other members, agents, assignees or fiduciaries whose testimony is sought.

63.7.2 The relationship of the person who refused to testify to any entity that is a party to the hearing, including but not limited to, whether the person whose testimony is sought has an ownership interest in the entity and/or the degree of authority and responsibility the person has within the entity.

63.7.3 The nexus of the testimony sought to the subject entity and its contracts, leases, permits or licenses with the **City**.

63.7.4 The effect a penalty may have on an unaffiliated and unrelated party or entity that has a significant interest in an entity subject to penalties under Article 63.6, provided that the party or entity has given actual notice to the **Commissioner** upon the acquisition of the interest, or at the hearing called for in Article 63.4, gives notice and proves that such interest was previously acquired. Under either circumstance the party or entity shall present evidence at the hearing demonstrating the potential adverse impact a penalty will have on such person or entity.

63.8 Definitions:

63.8.1 The term "license" or "permit" as used in this Article 63 shall be defined as a license, permit, franchise or concession not granted as a matter of right.

63.8.2 The term "person" as used in this Article 63 shall be defined as any natural person doing business alone or associated with another person or entity as a partner, director, officer, principal or employee.

63.8.3 The term “entity” as used in this Article 63 shall be defined as any firm, partnership, corporation, association, joint venture, or person that receives monies, benefits, licenses, leases, or permits from or through the **City** or otherwise transacts business with the **City**.

63.8.4 The term “member” as used in this Article 63 shall be defined as any person associated with another person or entity as a partner, director, officer, principal or employee.

63.9 In addition to and notwithstanding any other provision of this **Contract**, the **Commissioner** may in his/her sole discretion terminate this **Contract** upon not less than three (3) **Days**’ written notice in the event the **Contractor** fails to promptly report in writing to the **Commissioner** of the Department of Investigations (“DOI”) of the **City** any solicitation of money, goods, requests for future employment or other benefit or thing of value, by or on behalf of any employee of the **City** or other person, firm, corporation or entity for any purpose which may be related to the procurement or obtaining of this **Contract** by the **Contractor**, or affecting the performance of this **Contract**.

ARTICLE 64. TERMINATION BY THE CITY

64.1 In addition to termination pursuant to any other article of this **Contract**, the **Commissioner** may, at any time, terminate this **Contract** by written notice to the **Contractor**. In the event of termination, the **Contractor** shall, upon receipt of such notice, unless otherwise directed by the **Commissioner**:

64.1.1 Stop **Work** on the date specified in the notice;

64.1.2 Take such action as may be necessary for the protection and preservation of the **City**’s materials and property;

64.1.3 Cancel all cancelable orders for material and equipment;

64.1.4 Assign to the **City** and deliver to the **Site** or another location designated by the **Commissioner**, any non-cancelable orders for material and equipment that is not capable of use except in the performance of this **Contract** and has been specifically fabricated for the sole purpose of this **Contract** and not incorporated in the **Work**;

64.1.5 Take no action which will increase the amounts payable by the **City** under this **Contract**.

64.2 In the event of termination by the **City** pursuant to this Article 64, payment to the **Contractor** shall be in accordance with Articles 64.2.1, 64.2.2 or 64.2.3, to the extent that each respective article applies.

64.2.1 Lump Sum Contracts or Items: On all lump sum **Contracts**, or on lump sum items in a **Contract**, the **City** will pay the **Contractor** the sum of the amounts described in Articles 64.2.1(a) and 64.2.1(b), less all payments previously made pursuant to this **Contract**. On lump sum **Contracts** only, the **City** will also pay the **Contractor** an additional sum as provided in Article 64.2.1(c).

64.2.1(a) For **Work** completed prior to the notice of termination, the **Contractor** shall be paid a pro rata portion of the lump sum bid amount, plus approved change orders, based upon the percent completion of the **Work**, as determined by the

Commissioner. For the purpose of determining the pro rata portion of the lump sum bid amount to which the **Contractor** is entitled, the bid breakdown submitted in accordance with Article 41 shall be considered, but shall not be dispositive. The **Commissioner's** determination hereunder shall be final, binding, and conclusive.

64.2.1(b) For non-cancelable material and equipment that is not capable of use except in the performance of this **Contract** and has been specifically fabricated for the sole purpose of this **Contract**, but not yet incorporated in the **Work**, the **Contractor** shall be paid the lesser of the following, less salvage value:

64.2.1(b)(i) The Direct Cost, as defined in Article 64.2.4; or

64.2.1(b)(ii) The fair and reasonable value, if less than Direct Cost, of such material and equipment, plus necessary and reasonable delivery costs.

64.2.1(b)(iii) In addition, the **Contractor** shall be paid five (5%) percent of the amount described in Article 64.2.1(b)(i) or Article 64.2.1(b)(ii), whichever applies.

64.2.1(c) Except as otherwise provided in Article 64.2.1(d), on all lump sum **Contracts**, the **Contractor** shall be paid the percentage indicated below applied to the difference between the total lump sum bid amount and the total of all payments made prior to the notice of termination plus all payments allowed pursuant to Articles 64.2.1(a) and 64.2.1(b):

64.2.1(c)(i) Five (5%) percent of the first five million (\$5,000,000) dollars; and

64.2.1(c)(ii) Three (3%) percent of any amount between five million (\$5,000,000) dollars and fifteen million (\$15,000,000) dollars; plus

64.2.1(c)(iii) One (1%) percent of any amount over fifteen million (\$15,000,000) dollars.

64.2.1(d) In the event the **City** terminates a lump sum **Contract** pursuant to this Article 64 within ninety (90) **Days** after registration of the **Contract** with the **Comptroller**, the **Contractor** shall be paid one (1%) percent of the difference between the lump sum bid amount and the total of all payments made pursuant to this Article 64.2.

64.2.2 Unit Price Contracts or Items: On all unit price **Contracts**, or on unit price items in a **Contract**, the **City** will pay the **Contractor** the sum of the amounts described in Articles 64.2.2(a) and 64.2.2(b), less all payments previously made pursuant to this **Contract**:

64.2.2(a) For all completed units, the unit price stated in the **Contract**, and

64.2.2(b) For units that have been ordered but are only partially completed, the **Contractor** will be paid:

64.2.2(b)(i) A pro rata portion of the unit price stated in the **Contract** based upon the percent completion of the unit and

64.2.2(b)(ii) For non-cancelable material and equipment, payment will be made pursuant to Article 64.2.1(b).

64.2.3 Time and Materials Contracts or Items Based on Time and Material Records: On all **Contracts** or items in a **Contract** where payment for the **Work** is based on time and material records, the **Contractor** shall be paid in accordance with Article 26, less all payments previously made pursuant to this **Contract**.

64.2.4 Direct Costs: Direct Costs as used in this Article 64.2 shall mean:

64.2.4(a) The actual purchase price of material and equipment, plus necessary and reasonable delivery costs,

64.2.4(b) The actual cost of labor involved in construction and installation at the **Site**, and

64.2.4(c) The actual cost of necessary bonds and insurance purchased pursuant to requirements of this **Contract** less any amounts that have been or should be refunded by the **Contractor's** sureties or insurance carriers.

64.2.4(d) Direct Costs shall not include overhead.

64.3 In no event shall any payments under this Article 64 exceed the **Contract** price for such items.

64.4 All payments pursuant to Article 64 shall be in the nature of liquidated damages and shall be accepted by the **Contractor** in full satisfaction of all claims against the **City**.

64.5 The **City** may deduct or set off against any sums due and payable pursuant to this Article 64, any deductions authorized by this **Contract** or by **Law** (including but not limited to liquidated damages) and any claims it may have against the **Contractor**. The **City's** exercise of the right to terminate the **Contract** pursuant to this Article 64 shall not impair or otherwise effect the **City's** right to assert any claims it may have against the **Contractor** in a plenary action.

64.6 Where the **Work** covered by the **Contract** has been substantially completed, as determined in writing by the **Commissioner**, termination of the **Work** shall be handled as an omission of **Work** pursuant to Articles 29 and 33, in which case a change order will be issued to reflect an appropriate reduction in the **Contract** sum, or if the amount is determined after final payment, such amount shall be paid by the **Contractor**.

ARTICLE 65. CHOICE OF LAW, CONSENT TO JURISDICTION AND VENUE

65.1 This **Contract** shall be deemed to be executed in the **City** regardless of the domicile of the **Contractor**, and shall be governed by and construed in accordance with the **Laws** of the State of New York and the **Laws** of the United States, where applicable.

65.2 The parties agree that any and all claims asserted against the **City** arising under this **Contract** or related thereto shall be heard and determined in the courts of the State of New York ("New York State Courts") located in the **City** and County of New York. To effect this **Contract** and intent, the **Contractor** agrees:

65.2.1 If the **City** initiates any action against the **Contractor** in Federal court or in a New York State Court, service of process may be made on the **Contractor** either in person, wherever such **Contractor** may be found, or by registered mail addressed to the **Contractor** at its address as set forth in this **Contract**, or to such other address as the **Contractor** may provide to the **City** in writing; and

65.2.2 With respect to any action between the **City** and the **Contractor** in a New York State Court, the **Contractor** hereby expressly waives and relinquishes any rights it might otherwise have:

65.2.2(a) To move to dismiss on grounds of forum non conveniens;

65.2.2(b) To remove to Federal Court; and

65.2.2(c) To move for a change of venue to a New York State Court outside New York County.

65.2.3 With respect to any action brought by the **City** against the **Contractor** in a Federal Court located in the **City**, the **Contractor** expressly waives and relinquishes any right it might otherwise have to move to transfer the action to a Federal Court outside the **City**.

65.2.4 If the **Contractor** commences any action against the **City** in a court located other than in the **City** and County of New York, upon request of the **City**, the **Contractor** shall either consent to a transfer of the action to a New York State Court of competent jurisdiction located in the **City** and County of New York or, if the Court where the action is initially brought will not or cannot transfer the action, the **Contractor** shall consent to dismiss such action without prejudice and may thereafter reinstate the action in a New York State Court of competent jurisdiction in New York County.

65.3 If any provision(s) of this Article 65 is held unenforceable for any reason, each and all other provision(s) shall nevertheless remain in full force and effect.

ARTICLE 66. PARTICIPATION IN AN INTERNATIONAL BOYCOTT

66.1 The **Contractor** agrees that neither the **Contractor** nor any substantially owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the Federal Export Administration Act of 1979, as amended, or the regulations of the United States Department of Commerce (Commerce Department) promulgated thereunder.

66.2 Upon the final determination by the Commerce Department or any other agency of the United States as to, or conviction of the **Contractor** or a substantially-owned affiliated company thereof for participation in an international boycott in violation of the provisions of the Export Administration Act of 1979, as amended, or the regulations promulgated thereunder, the **Comptroller** may, at his/her option, render forfeit and void this **Contract**.

66.3 The **Contractor** shall comply in all respects, with the provisions of Section 6-114 of the Administrative Code and the rules and regulations issued by the **Comptroller** thereunder.

ARTICLE 67. LOCALLY BASED ENTERPRISE PROGRAM

67.1 This **Contract** is subject to the requirements of Section 6-108.1 of the Administrative Code and regulations promulgated thereunder. No construction contract shall be awarded unless and until these requirements have been complied with in their entirety; however, compliance with this Article 67 is not required if the Agency sets Subcontractor Participation Goals for Minority- and Women-Owned Business Enterprises (M/WBEs).

67.2 Unless specifically waived by the **Commissioner** with the approval of the Division of Economic and Financial Opportunity of the **City** Department of Business Services, if any portion of the **Contract** is subcontracted, not less than ten (10%) percent of the total dollar amount of the **Contract** shall be awarded to locally based enterprises (LBEs); except that where less than ten (10%) percent of the total dollar amount of the **Contract** is subcontracted, such lesser percentage shall be so awarded.

67.3 The **Contractor** shall not require performance and payment bonds from LBE **Subcontractors**.

67.4 If the **Contractor** has indicated prior to award that no **Work** will be subcontracted, no **Work** shall be subcontracted without the prior approval of the **Commissioner**, which shall be granted only if the **Contractor** makes a good faith effort beginning at least six (6) weeks before the **Work** is to be performed to obtain LBE **Subcontractors** to perform the **Work**.

67.5 If the **Contractor** has not identified sufficient LBE **Subcontractors** prior to award, it shall sign a letter of compliance stating that it complies with Section 6-108.1 of the Administrative Code, recognizes that achieving the LBE requirement is a condition of its **Contract**, and shall submit documentation demonstrating its good faith efforts to obtain LBEs. After award, the **Contractor** shall begin to solicit LBE's to perform subcontracted **Work** at least six (6) weeks before the date such **Work** is to be performed and shall demonstrate that a good faith effort has been made to obtain LBEs on each subcontract until it meets the required percentage.

67.6 Failure of the **Contractor** to comply with the requirements of Section 6-108.1 of the Administrative Code and the regulations promulgated thereunder shall constitute a material breach of this **Contract**. Remedy for such breach may include the imposition of any or all of the following sanctions:

67.6.1 Reducing the **Contractor's** compensation by an amount equal to the dollar value of the percentage of the LBE subcontracting requirement not complied with;

67.6.2 Declaring the **Contractor** in default;

67.6.3 If the **Contractor** is an LBE, de-certifying and declaring the **Contractor** ineligible to participate in the LBE program for a period of up to three (3) years.

ARTICLE 68. ANTITRUST

68.1 The **Contractor** hereby assigns, sells, and transfers to the **City** all right, title, and interest in and to any claims and causes of action arising under the antitrust **Laws** of New York State or of the United States relating to the particular goods or services purchased or procured by the **City** under this **Contract**.

ARTICLE 69. MacBRIDE PRINCIPLES PROVISIONS

69.1 Notice To All Prospective Contractors:

69.1.1 Local Law No. 34 of 1991 became effective on September 10, 1991 and added Section 6-115.1 of the Administrative Code. The local **Law** provides for certain restrictions on **City Contracts** to express the opposition of the people of the **City** to employment discrimination practices in Northern Ireland to promote freedom of work-place opportunity.

69.1.2 Pursuant to Section 6-115.1, prospective **Contractors** for **Contracts** to provide goods or services involving an expenditure of an amount greater than ten thousand (\$10,000.) dollars, or for construction involving an amount greater than fifteen thousand (\$15,000.) dollars, are asked to sign a rider in which they covenant and represent, as a material condition of their **Contract**, that any business operations in Northern Ireland conducted by the **Contractor** and any individual or legal entity in which the **Contractor** holds a ten (10%) percent or greater ownership interest in the **Contractor** will be conducted in accordance with the MacBride Principles of nondiscrimination in employment.

69.1.3 Prospective **Contractors** are not required to agree to these conditions. However, in the case of **Contracts** let by competitive sealed bidding, whenever the lowest responsible bidder has not agreed to stipulate to the conditions set forth in this notice and another bidder who has agreed to stipulate to such conditions has submitted a bid within five (5%) percent of the lowest responsible bid for a **Contract** to supply goods, services or contraction of comparable quality, the **Agency** shall refer such bids to the Mayor, the Speaker or other officials, as appropriate, who may determine, in accordance with applicable **Law**, that it is in the best interest of the **City** that the **Contract** be awarded to other than the lowest responsible pursuant to Section 313(b)(2) of the **City** Charter.

69.1.4 In the case of **Contracts** let by other than competitive sealed bidding, if a prospective **Contractor** does not agree to these conditions, no **Agency**, elected official or the **City** Council shall award the **Contract** to that bidder unless the **Agency** seeking to use the goods, services or construction certifies in writing that the **Contract** is necessary for the **Agency** to perform its functions and there is no other responsible **Contractor** who will supply goods, services or construction of comparable quality at a comparable price.

69.2 In accordance with Section 6-115.1 of the Administrative Code, the **Contractor** stipulates that such **Contractor** and any individual or legal entity in which the **Contractor** holds a ten (10%) percent or greater ownership interest in the **Contractor** either:

69.2.1 Have no business operations in Northern Ireland, or

69.2.2 Shall take lawful steps in good faith to conduct any business operations they have in Northern Ireland in accordance with the MacBride Principles, and shall permit independent monitoring of their compliance with such principles.

69.3 For purposes of this Article, the following terms shall have the following meanings:

69.3.1 "MacBride Principles" shall mean those principles relating to nondiscrimination in employment and freedom of work-place opportunity which require employers doing business in Northern Ireland to:

69.3.1(a) increase the representation of individuals from under-represented religious groups in the workforce, including managerial, supervisory, administrative, clerical and technical jobs;

69.3.1(b) take steps to promote adequate security for the protection of employees from under-represented religious groups both at the work-place and while traveling to and from **Work**;

69.3.1(c) ban provocative religious or political emblems from the workplace;

69.3.1(d) publicly advertise all job openings and make special recruitment efforts to attract applicants from under-represented religious groups;

69.3.1(e) establish layoff, recall, and termination procedures which do not in practice favor a particular religious group;

69.3.1(f) abolish all job reservations, apprenticeship restrictions and different employment criteria which discriminate on the basis of religion;

69.3.1(g) develop training programs that will prepare substantial numbers of current employees from under-represented religious groups for skilled jobs, including the expansion of existing programs and the creation of new programs to train, upgrade, and improve the skills of workers from under-represented religious groups;

69.3.1(h) establish procedures to assess, identify, and actively recruit employees from under-represented religious groups with potential for further advancement; and

69.3.1(i) appoint a senior management staff member to oversee affirmative action efforts and develop a timetable to ensure their full implementation.

69.4 The **Contractor** agrees that the covenants and representations in Article 69.2 are material conditions to this **Contract**. In the event the **Agency** receives information that the **Contractor** who made the stipulation required by this Article 69 is in violation thereof, the **Agency** shall review such information and give the **Contractor** an opportunity to respond. If the **Agency** finds that a violation has occurred, the **Agency** shall have the right to declare the **Contractor** in default and/or terminate this **Contract** for cause and procure supplies, services or **Work** from another source in the manner the **Agency** deems proper. In the event of such termination, the **Contractor** shall pay to the **Agency**, or the **Agency** in its sole discretion may withhold from any amounts otherwise payable to the **Contractor**, the difference between the **Contract** price for the uncompleted portion of this **Contract** and the cost to the **Agency** of completing performance of this **Contract** either itself or by engaging another **Contractor** or **Contractors**. In the case of a requirement **Contract**, the **Contractor** shall be liable for such difference in price for the entire amount of supplies required by the **Agency** for the uncompleted term of **Contractor's Contract**. In the case of a construction **Contract**, the **Agency** shall also have the right to hold the **Contractor** in partial or total default in accordance with the default provisions of this **Contract**, and/or may seek debarment or suspension of the **Contractor**. The rights and remedies of the **Agency** hereunder shall be in addition to, and not in lieu of, any rights and remedies the **Agency** has pursuant to this **Contract** or by operation of **Law**.

ARTICLE 70. ELECTRONIC FILING/NYC DEVELOPMENT HUB

70.1 The **Contractor** shall electronically file all alteration type-2 and alteration type-3 applications via the New York City Development Hub Web site, except applications for the following types of minor alterations: enlargements, curb cuts, legalizations, fire alarms, builders pavement plans, and jobs filed on Landmark Preservation Commission calendared properties. All such filings must be professionally certified. Information about electronic filing via the New York City Development Hub is available on the **City** Department of Buildings Web site at www.nyc.gov/buildings.

ARTICLE 71. PROHIBITION OF TROPICAL HARDWOODS

71.1 Tropical hardwoods, as defined in Section 165 of the New York State Finance Law (Finance Law), shall not be utilized in the performance of this **Contract** except as expressly permitted by Section 165 of the Finance Law.

ARTICLE 72. CONFLICTS OF INTEREST

72.1 Section 2604 of the **City** Charter and other related provisions of the **City** Charter, the Administrative Code, and the Penal Law are applicable under the terms of this **Contract** in relation to conflicts of interest and shall be extended to **Subcontractors** authorized to perform **Work**, labor and services pursuant to this **Contract** and further, it shall be the duty and responsibility of the **Contractor** to so inform its respective **Subcontractors**. Notice is hereby given that, under certain circumstances, penalties may be invoked against the donor as well as the recipient of any form of valuable gift.

ARTICLE 73. MERGER CLAUSE

73.1 The written **Contract** herein, contains all the terms and conditions agreed upon by the parties hereto, and no other agreement, oral or otherwise, regarding the subject matter of this **Contract** shall be deemed to exist or to bind any of the parties hereto, or to vary any of the terms contained herein.

ARTICLE 74. STATEMENT OF WORK

74.1 The **Contractor** shall furnish all labor and materials and perform all **Work** in strict accordance with the **Specifications** and **Addenda** thereto, numbered as shown in Schedule A.

ARTICLE 75. COMPENSATION TO BE PAID TO CONTRACTOR

75.1 The **City** will pay and the **Contractor** will accept in full consideration for the performance of the **Contract**, subject to additions and deductions as provided herein, the total sum shown in Schedule A, this said sum being the amount at which the **Contract** was awarded to the **Contractor** at a public letting thereof, based upon the **Contractor's** bid for the **Contract**.

ARTICLE 76. ELECTRONIC FUNDS TRANSFER

76.1 In accordance with Section 6-107.1 of the Administrative Code, the **Contractor** agrees to accept payments under this **Contract** from the **City** by electronic funds transfer (EFT). An EFT is any

transfer of funds, other than a transaction originated by check, draft or similar paper instrument, which is initiated through an electronic terminal, telephonic instrument or computer or magnetic tape so as to order, instruct or authorize a financial institution to debit or credit an account. Prior to the first payment made under this **Contract**, the **Contractor** shall designate one financial institution or other authorized payment agent and shall complete the attached "EFT Vendor Payment Enrollment Form" in order to provide the Commissioner of the **City** Department of Finance with information necessary for the **Contractor** to receive electronic funds transfer payments through a designated financial institution or authorized payment agent. The crediting of the amount of a payment to the appropriate account on the books of a financial institution or other authorized payment agent designated by the **Contractor** shall constitute full satisfaction by the **City** for the amount of the payment under this **Contract**. The account information supplied by the **Contractor** to facilitate the electronic funds transfer shall remain confidential to the fullest extent provided by **Law**.

76.2 The **Commissioner** may waive the application of the requirements of this Article 76 to payments on contracts entered into pursuant to Section 315 of the **City** Charter. In addition, the Commissioner of the Department of Finance and the Comptroller may jointly issue standards pursuant to which the **Agency** may waive the requirements of this Article 76 for payments in the following circumstances: (i) for individuals or classes of individuals for whom compliance imposes a hardship; (ii) for classifications or types of checks; or (iii) in other circumstances as may be necessary in the interest of the **City**.

ARTICLE 77. RECORDS RETENTION

77.1 The **Contractor** agrees to retain all books, records, and other documents relevant to this **Contract** for six years after the final payment or termination of this **Contract**, whichever is later. **City**, state, and federal auditors and any other persons duly authorized by the **City** shall have full access to and the right to examine any such books, records, and other documents during the retention period.

ARTICLE 78. EXAMINATION AND VIEWING OF SITE, CONSIDERATION OF OTHER SOURCES OF INFORMATION AND CHANGED SITE CONDITIONS

78.1 Pre-Bidding (Investigation) Viewing of Site – Bidders must carefully view and examine the **Site** of the proposed **Work**, as well as its adjacent area, and seek other usual sources of information, for they will be conclusively presumed to have full knowledge of any and all conditions and hazards on, about or above the **Site** relating to or affecting in any way the performance of the **Work** to be done under the **Contract** that were or should have been known by a reasonably prudent bidder. To arrange a date for visiting the **Site**, bidders are to contact the **Agency** contact person specified in the bid documents.

78.2 Should the **Contractor** encounter during the progress of the **Work** site conditions or environmental hazards at the **Site** materially differing from any shown on the **Contract Drawings** or indicated in the **Specifications** or such conditions or environmental hazards as could not reasonably have been anticipated by the **Contractor**, which conditions or hazards will materially affect the cost of the **Work** to be done under the **Contract**, the attention of the **Commissioner** must be called immediately to such conditions or hazards before they are disturbed. The **Commissioner** shall thereupon promptly investigate the conditions or hazards. If the **Commissioner** finds that they do so materially differ, and that they could not have been reasonably anticipated by the **Contractor**, the **Contract** may be modified with the **Commissioner's** written approval.

**ARTICLE 79. PARTICIPATION BY MINORITY-OWNED AND WOMEN-OWNED
BUSINESS ENTERPRISES IN CITY PROCUREMENT**

NOTICE TO ALL PROSPECTIVE CONTRACTORS

ARTICLE I. M/WBE PROGRAM

Local Law No. 129 of 2005 added and Local Law 1 of 2013 amended Section 6-129 of the Administrative Code of the City of New York (hereinafter “Section 6-129”). Section 6-129 establishes the program for participation in City procurement (“M/WBE Program”) by minority- owned business enterprises (“MBEs”) and women-owned business enterprises (“WBEs”), certified in accordance with Section 1304 of the New York City Charter. As stated in Section 6-129, the intent of the program is to address the impact of discrimination on the City’s procurement process, and to promote the public interest in avoiding fraud and favoritism in the procurement process, increasing competition for City business, and lowering contract costs. The contract provisions contained herein are pursuant to Section 6-129, and the rules of the Department of Small Business Services (“DSBS”) promulgated thereunder.

If this Contract is subject to the M/WBE Program established by Section 6-129, the specific requirements of MBE and/or WBE participation for this Contract are set forth in Schedule B of the Contract (entitled the “M/WBE Utilization Plan”), and are detailed below. The Contractor must comply with all applicable MBE and WBE requirements for this Contract.

All provisions of Section 6-129 are hereby incorporated in the Contract by reference and all terms used herein that are not defined herein shall have the meanings given such terms in Section 6-129. Article I, Part A, below, sets forth provisions related to the participation goals for construction, standard and professional services contracts. Article I, Part B, below, sets forth miscellaneous provisions related to the M/WBE Program.

PART A

**PARTICIPATION GOALS FOR CONSTRUCTION, STANDARD
AND PROFESSIONAL SERVICES CONTRACTS OR TASK ORDERS**

1. The **MBE and/or WBE Participation Goals** established for this Contract or Task Orders issued pursuant to this Contract, (“**Participation Goals**”), as applicable, are set forth on Schedule B, Part I to this Contract (see Page 1, line 1 Total Participation Goals) or will be set forth on Schedule B, Part I to Task Orders issued pursuant to this Contract, as applicable.

The **Participation Goals** represent a percentage of the total dollar value of the Contract or Task Order, as applicable, that may be achieved by awarding subcontracts to firms certified with New York City Department of Small Business Services as MBEs and/or WBEs, and/or by crediting the participation of prime contractors and/or qualified joint ventures as provided in Section 3 below, unless the goals have been waived or modified by Agency in accordance with Section 6-129 and Part A, Sections 10 and 11 below, respectively.

2. If **Participation Goals** have been established for this Contract or Task Orders issued pursuant to this Contract, Contractor agrees or shall agree as a material term of the Contract that Contractor shall be subject to the **Participation Goals**, unless the goals are waived or modified by Agency in accordance with Section 6-129 and Part A, Sections 10 and 11 below, respectively.

3. If **Participation Goals** have been established for this Contract or Task Order issued pursuant to this Contract, a Contractor that is an MBE and/or WBE shall be permitted to count its own participation toward fulfillment of the relevant **Participation Goal**, provided that in accordance with Section 6-129 the value of Contractor's participation shall be determined by subtracting from the total value of the Contract or Task Order, as applicable, any amounts that the Contractor pays to direct subcontractors (as defined in Section 6-129(c)(13)), and provided further that a Contractor that is certified as both an MBE and a WBE may count its own participation either toward the goal for MBEs or the goal for WBEs, but not both.

A Contractor that is a qualified joint venture (as defined in Section 6-129(c)(30)) shall be permitted to count a percentage of its own participation toward fulfillment of the relevant **Participation Goal**. In accordance with Section 6-129, the value of Contractor's participation shall be determined by subtracting from the total value of the Contract or Task Order, as applicable, any amounts that Contractor pays to direct subcontractors, and then multiplying the remainder by the percentage to be applied to total profit to determine the amount to which an MBE or WBE is entitled pursuant to the joint venture agreement, provided that where a participant in a joint venture is certified as both an MBE and a WBE, such amount shall be counted either toward the goal for MBEs or the goal for WBEs, but not both.

4. A. If **Participation Goals** have been established for this Contract, a prospective contractor shall be required to submit with its bid or proposal, as applicable, a completed Schedule B, M/WBE Utilization Plan, Part II (see Pages 2-4) indicating: (a) whether the contractor is an MBE or WBE, or qualified joint venture; (b) the percentage of work it intends to award to direct subcontractors; and (c) in cases where the contractor intends to award direct subcontracts, a description of the type and dollar value of work designated for participation by MBEs and/or WBEs, and the time frames in which such work is scheduled to begin and end. In the event that this M/WBE Utilization Plan indicates that the bidder or proposer, as applicable, does not intend to meet the **Participation Goals**, the bid or proposal, as applicable, shall be deemed non-responsive, unless Agency has granted the bidder or proposer, as applicable, a pre- award waiver of the Participation Goals in accordance with Section 6-129 and Part A, Section 10 below.

B. (i) If this Contract is for a master services agreement or other requirements type contract that will result in the issuance of Task Orders that will be individually registered ("Master Services Agreement") and is subject to M/WBE **Participation Goals**, a prospective contractor shall be required to submit with its bid or proposal, as applicable, a completed Schedule B, M/WBE Participation Requirements for Master Services Agreements That Will Require Individually Registered Task Orders, Part II (page 2) indicating the prospective contractor's certification and required affirmations to make all reasonable good faith efforts to meet participation goals established on each individual Task Order issued pursuant to this Contract, or if a partial waiver is obtained or such goals are modified by the Agency, to meet the modified **Participation Goals** by soliciting and obtaining the participation of certified MBE and/or WBE firms. In the event that the Schedule B indicates that the bidder or proposer, as applicable, does not intend to meet the **Participation Goals** that may be established on Task Orders issued pursuant to this Contract, the bid or proposal, as applicable, shall be deemed nonresponsive.

(ii) **Participation Goals** on a Master Services Agreement will be established for individual Task Orders issued after the Master Services Agreement is awarded. If **Participation Goals** have been established on a Task Order, a contractor shall be required to submit a Schedule B – M/WBE Utilization Plan For Independently Registered Task Orders That Are Issued Pursuant to Master Services Agreements, Part II (see Pages 2-4) indicating: (a) whether the contractor is an MBE or WBE, or qualified joint venture; (b) the percentage of work it intends to award to direct subcontractors; and (c) in cases where the contractor intends to award direct subcontracts, a description of the type and dollar value of work designated for participation by MBEs and/or WBEs, and the time frames in which such work is scheduled to begin and end. The contractor must engage in good faith efforts to meet the **Participation Goals** as established for the Task Order unless Agency has granted the contractor a pre-award waiver of the Participation Goals in accordance with Section 6-129 and Part A, Section 10 below.

C. THE BIDDER/PROPOSER MUST COMPLETE THE SCHEDULE B INCLUDED HEREIN (SCHEDULE B, PART II). A SCHEDULE B SUBMITTED BY THE BIDDER/PROPOSER WHICH DOES NOT INCLUDE THE VENDOR CERTIFICATION AND REQUIRED AFFIRMATIONS (SEE SECTION V OF PART II) WILL BE DEEMED TO BE NON-RESPONSIVE, UNLESS A FULL WAIVER OF THE PARTICIPATION GOALS IS GRANTED (SCHEDULE B, PART III). IN THE EVENT THAT THE CITY DETERMINES THAT THE BIDDER/PROPOSER HAS SUBMITTED A SCHEDULE B WHERE THE VENDOR CERTIFICATION AND REQUIRED AFFIRMATIONS ARE COMPLETED BUT OTHER ASPECTS OF THE SCHEDULE B ARE NOT COMPLETE, OR CONTAIN A COPY OR COMPUTATION ERROR THAT IS AT ODDS WITH THE VENDOR CERTIFICATION AND AFFIRMATIONS, THE BIDDER/PROPOSER WILL BE NOTIFIED BY THE AGENCY AND WILL BE GIVEN FOUR (4) CALENDAR DAYS FROM RECEIPT OF NOTIFICATION TO CURE THE SPECIFIED DEFICIENCIES AND RETURN A COMPLETED SCHEDULE B TO THE AGENCY. FAILURE TO DO SO WILL RESULT IN A DETERMINATION THAT THE BID/PROPOSAL IS NON-RESPONSIVE. RECEIPT OF NOTIFICATION IS DEFINED AS THE DATE NOTICE IS E-MAILED OR FAXED (IF THE BIDDER/PROPOSER HAS PROVIDED AN E-MAIL ADDRESS OR FAX NUMBER), OR NO LATER THAN FIVE (5) CALENDAR DAYS FROM THE DATE OF MAILING OR UPON DELIVERY, IF DELIVERED.

5. Where an M/WBE Utilization Plan has been submitted, the Contractor shall, within 30 days of issuance by Agency of a notice to proceed, submit a list of proposed persons or entities to which it intends to award subcontracts within the subsequent 12 months. In the case of multiyear contracts, such list shall also be submitted every year thereafter. The Agency may also require the Contractor to report periodically about the contracts awarded by its direct subcontractors to indirect subcontractors (as defined in Section 6-129(c)(22)). **PLEASE NOTE: If this Contract is a public works project subject to GML §101(5) (i.e., a contract valued at or below \$3M for projects in New York City) or if the Contract is subject to a project labor agreement in accordance with Labor Law §222, and the bidder is required to identify at the time of bid submission its intended subcontractors for the Wicks trades (plumbing and gas fitting; steam heating, hot water heating, ventilating and air conditioning (HVAC); and electric wiring), the Contractor must identify all those to which it intends to award construction subcontracts for any portion of the Wicks trade work at the time of bid submission, regardless of what point in the life of the contract such subcontracts will occur. In identifying intended subcontractors in the bid submission, bidders may satisfy any Participation Goals established for this Contract by proposing one or more subcontractors that are MBEs and/or WBEs for any portion of the Wicks trade work. In the event that the Contractor's selection of a subcontractor is disapproved, the Contractor shall have a reasonable time to propose alternate subcontractors.**

6. MBE and WBE firms must be certified by DSBS in order for the Contractor to credit such firms' participation toward the attainment of the **Participation Goals**. Such certification must occur prior to the

firms' commencement of work. A list of MBE and WBE firms may be obtained from the DSBS website at www.nyc.gov/buycertified, by emailing DSBS at buyer@sbs.nyc.gov, by calling (212) 513-6356, or by visiting or writing DSBS at 110 William St., New York, New York, 10038, 7th floor. Eligible firms that have not yet been certified may contact DSBS in order to seek certification by visiting www.nyc.gov/getcertified, emailing MWBE@sbs.nyc.gov, or calling the DSBS certification helpline at (212) 513-6311. A firm that is certified as both an MBE and a WBE may be counted either toward the goal for MBEs or the goal for WBEs, but not both. No credit shall be given for participation by a graduate MBE or graduate WBE, as defined in Section 6-129(c)(20).

7. Where an **M/WBE** Utilization Plan has been submitted, the Contractor shall, with each voucher for payment, and/or periodically as Agency may require, submit statements, certified under penalty of perjury, which shall include, but not be limited to, the total amount the Contractor paid to its direct subcontractors, and, where applicable pursuant to Section 6-129(j), the total amount direct subcontractors paid to indirect subcontractors; the names, addresses and contact numbers of each MBE or WBE hired as a subcontractor by the Contractor, and, where applicable, hired by any of the Contractor's direct subcontractors; and the dates and amounts paid to each MBE or WBE. The Contractor shall also submit, along with its voucher for final payment: the total amount it paid to subcontractors, and, where applicable pursuant to Section 6-129(j), the total amount its direct subcontractors paid directly to their indirect subcontractors; and a final list, certified under penalty of perjury, which shall include the name, address and contact information of each subcontractor that is an MBE or WBE, the work performed by, and the dates and amounts paid to each.

8. If payments made to, or work performed by, MBEs or WBEs are less than the amount specified in the Contractor's **M/WBE** Utilization Plan, Agency shall take appropriate action, in accordance with Section 6-129 and Article II below, unless the Contractor has obtained a modification of its **M/WBE** Utilization Plan in accordance with Section 6-129 and Part A, Section 11 below.

9. Where an **M/WBE** Utilization Plan has been submitted, and the Contractor requests a change order the value of which exceeds the greater of 10 percent of the Contract or Task Order, as applicable, or \$500,000, Agency shall review the scope of work for the Contract or Task Order, as applicable, and the scale and types of work involved in the change order, and determine whether the **Participation Goals** should be modified.

10. Pre-award waiver of the **Participation Goals**. (a) A bidder or proposer, or contractor with respect to a Task Order, may seek a pre-award full or partial waiver of the **Participation Goals** in accordance with Section 6-129, which requests that Agency change one or more **Participation Goals** on the grounds that the **Participation Goals** are unreasonable in light of the availability of certified firms to perform the services required, or by demonstrating that it has legitimate business reasons for proposing a lower level of subcontracting in its M/WBE Utilization Plan.

(b) To apply for a full or partial waiver of the **Participation Goals**, a bidder, proposer, or contractor, as applicable, must complete Part III (Page 5) of Schedule B and submit such request no later than seven (7) calendar days prior to the date and time the bids, proposals, or Task Orders are due, in writing to the Agency by email at poped@ddc.nyc.gov or via facsimile at (718) 391-1886. Bidders, proposers, or contractors, as applicable, who have submitted requests will receive an Agency response by no later than two (2) calendar days prior to the due date for bids, proposals, or Task Orders; provided, however, that if that date would fall on a weekend or holiday, an Agency response will be provided by close-of-business on the business day before such weekend or holiday date.

(c) If the Agency determines that the **Participation Goals** are unreasonable in light of the availability of certified firms to perform the services required, it shall revise the solicitation and extend the deadline for bids and proposals, or revise the Task Order, as applicable.

(d) Agency may grant a full or partial waiver of the **Participation Goals** to a bidder, proposer or contractor, as applicable, who demonstrates—before submission of the bid, proposal or Task Order, as applicable—that it has legitimate business reasons for proposing the level of subcontracting in its **M/WBE Utilization Plan**. In making its determination, Agency shall consider factors that shall include, but not be limited to, whether the bidder, proposer or contractor, as applicable, has the capacity and the bona fide intention to perform the Contract without any subcontracting, or to perform the Contract without awarding the amount of subcontracts represented by the **Participation Goals**. In making such determination, Agency may consider whether the **M/WBE Utilization Plan** is consistent with past subcontracting practices of the bidder, proposer or contractor, as applicable, whether the bidder, proposer or contractor, as applicable, has made efforts to form a joint venture with a certified firm, and whether the bidder, proposer, or contractor, as applicable, has made good faith efforts to identify other portions of the Contract that it intends to subcontract.

11. Modification of **M/WBE Utilization Plan**. (a) A Contractor may request a modification of its **M/WBE Utilization Plan** after award of this Contract. **PLEASE NOTE: If this Contract is a public works project subject to GML §101(5) (i.e., a contract valued at or below \$3M for projects in New York City) or if the Contract is subject to a project labor agreement in accordance with Labor Law §222, and the bidder is required to identify at the time of bid submission its intended subcontractors for the Wicks trades (plumbing and gas fitting; steam heating, hot water heating, ventilating and air conditioning (HVAC); and electric wiring), the Contractor may request a Modification of its M/WBE Utilization Plan as part of its bid submission.** The Agency may grant a request for Modification of a Contractor's **M/WBE Utilization Plan** if it determines that the Contractor has established, with appropriate documentary and other evidence, that it made reasonable, good faith efforts to meet the **Participation Goals**. In making such determination, Agency shall consider evidence of the following efforts, as applicable, along with any other relevant factors:

- (i) The Contractor advertised opportunities to participate in the Contract, where appropriate, in general circulation media, trade and professional association publications and small business media, and publications of minority and women's business organizations;
- (ii) The Contractor provided notice of specific opportunities to participate in the Contract, in a timely manner, to minority and women's business organizations;
- (iii) The Contractor sent written notices, by certified mail or facsimile, in a timely manner, to advise MBEs or WBEs that their interest in the Contract was solicited;
- (iv) The Contractor made efforts to identify portions of the work that could be substituted for portions originally designated for participation by MBEs and/or WBEs in the **M/WBE Utilization Plan**, and for which the Contractor claims an inability to retain MBEs or WBEs;
- (v) The Contractor held meetings with MBEs and/or WBEs prior to the date their bids or proposals were due, for the purpose of explaining in detail the scope and requirements of the work for which their bids or proposals were solicited;
- (vi) The Contractor made efforts to negotiate with MBEs and/or WBEs as relevant to perform specific subcontracts, or act as suppliers or service providers;
- (vii) Timely written requests for assistance made by the Contractor to Agency's **M/WBE liaison officer** and to DSBS;
- (viii) Description of how recommendations made by DSBS and Agency were acted upon and an explanation of why action upon such recommendations did not lead to the desired level of participation of MBEs and/or WBEs.

Agency's **M/WBE officer** shall provide written notice to the Contractor of the determination.

(b) The Agency may modify the **Participation Goals** when the scope of the work has been changed by the Agency in a manner that affects the scale and types of work that the Contractor indicated in its **M/WBE Utilization Plan** would be awarded to subcontractors.

12. If this Contract is for an indefinite quantity of construction, standard or professional services or is a requirements type contract and the Contractor has submitted an **M/WBE** Utilization Plan and has committed to subcontract work to MBEs and/or WBEs in order to meet the **Participation Goals**, the Contractor will not be deemed in violation of the M/WBE Program requirements for this Contract with regard to any work which was intended to be subcontracted to an MBE and/or WBE to the extent that the Agency has determined that such work is not needed.

13. If **Participation Goals** have been established for this Contract or a Task Order issued pursuant to this Contract, at least once annually during the term of the Contract or Task Order, as applicable, Agency shall review the Contractor's progress toward attainment of its M/WBE Utilization Plan, including but not limited to, by reviewing the percentage of work the Contractor has actually awarded to MBE and/or WBE subcontractors and the payments the Contractor made to such subcontractors.

14. If **Participation Goals** have been established for this Contract or a Task Order issued pursuant to this Contract, Agency shall evaluate and assess the Contractor's performance in meeting those goals, and such evaluation and assessment shall become part of the Contractor's overall contract performance evaluation.

PART B: MISCELLANEOUS

1. The Contractor shall take notice that, if this solicitation requires the establishment of an **M/WBE** Utilization Plan, the resulting contract may be audited by DSBS to determine compliance with Section 6-129. See §6-129(e)(10). Furthermore, such resulting contract may also be examined by the City's Comptroller to assess compliance with the **M/WBE** Utilization Plan.

2. Pursuant to DSBS rules, construction contracts that include a requirement for an **M/WBE** Utilization Plan shall not be subject to the law governing Locally Based Enterprises set forth in Section 6-108.1 of the Administrative Code of the City of New York.

3. DSBS is available to assist contractors and potential contractors in determining the availability of MBEs and/or WBEs to participate as subcontractors, and in identifying opportunities that are appropriate for participation by MBEs and/or WBEs in contracts.

4. Prospective contractors are encouraged to enter into qualified joint venture agreements with MBEs and/or WBEs as defined by Section 6-129(c)(30).

5. By submitting a bid or proposal the Contractor hereby acknowledges its understanding of the M/WBE Program requirements set forth herein and the pertinent provisions of Section 6-129, and any rules promulgated thereunder, and if awarded this Contract, the Contractor hereby agrees to comply with the M/WBE Program requirements of this Contract and pertinent provisions of Section 6-129, and any rules promulgated thereunder, all of which shall be deemed to be material terms of this Contract. The Contractor hereby agrees to make all reasonable, good faith efforts to solicit and obtain the participation of MBEs and/or WBEs to meet the required **Participation Goals**.

ARTICLE II. ENFORCEMENT

1. If Agency determines that a bidder or proposer, as applicable, has, in relation to this procurement, violated Section 6-129 or the DSBS rules promulgated pursuant to Section 6-129, Agency may disqualify such bidder or proposer, as applicable, from competing for this Contract and the Agency may revoke such bidder's or proposer's prequalification status, if applicable.

2. Whenever Agency believes that the Contractor or a subcontractor is not in compliance with Section 6-129 or the DSBS rules promulgated pursuant to Section 6-129, or any provision of this Contract that implements Section 6-129, including, but not limited to any **M/WBE** Utilization Plan, Agency shall send a written notice to the Contractor describing the alleged noncompliance and offering the Contractor an opportunity to be heard. Agency shall then conduct an investigation to determine whether such Contractor or subcontractor is in compliance.

3. In the event that the Contractor has been found to have violated Section 6-129, the DSBS rules promulgated pursuant to Section 6-129, or any provision of this Contract that implements Section 6-129, including, but not limited to, any **M/WBE** Utilization Plan, Agency may determine that one of the following actions should be taken:

- (a) entering into an agreement with the Contractor allowing the Contractor to cure the violation;
- (b) revoking the Contractor's pre-qualification to bid or make proposals for future contracts;
- (c) making a finding that the Contractor is in default of the Contract;
- (d) terminating the Contract;
- (e) declaring the Contractor to be in breach of Contract;
- (f) withholding payment or reimbursement;
- (g) determining not to renew the Contract;
- (h) assessing actual and consequential damages;
- (i) assessing liquidated damages or reducing fees, provided that liquidated damages may be based on amounts representing costs of delays in carrying out the purposes of the M/WBE Program, or in meeting the purposes of the Contract, the costs of meeting utilization goals through additional procurements, the administrative costs of investigation and enforcement, or other factors set forth in the Contract;
- (j) exercising rights under the Contract to procure goods, services or construction from another contractor and charge the cost of such contract to the Contractor that has been found to be in noncompliance; or
- (k) taking any other appropriate remedy.

4. If an **M/WBE** Utilization Plan has been submitted, and pursuant to this Article II, Section 3, the Contractor has been found to have failed to fulfill its **Participation Goals** contained in its **M/WBE** Utilization Plan or the **Participation Goals** as modified by Agency pursuant to Article I, Part A, Section 11, Agency may assess liquidated damages in the amount of ten percent (10%) of the difference between the dollar amount of work required to be awarded to MBE and/or WBE firms to meet the **Participation Goals** and the dollar amount the Contractor actually awarded and paid, and/or credited, to MBE and/or WBE firms. In view of the difficulty of accurately ascertaining the loss which the City will suffer by reason of Contractor's failure to meet the **Participation Goals**, the foregoing amount is hereby fixed and agreed as the liquidated damages that the City will suffer by reason of such failure, and not as a penalty. Agency may deduct and retain out of any monies which may become due under this Contract the amount of any such liquidated damages; and in case the amount which may become due under this Contract shall be less than the amount of liquidated damages suffered by the City, the Contractor shall be liable to pay the difference.

5. Whenever Agency has reason to believe that an MBE and/or WBE is not qualified for certification, or is participating in a contract in a manner that does not serve a commercially useful function (as defined in Section 6-129(c)(8)), or has violated any provision of Section 6-129, Agency shall notify the Commissioner of DSBS who shall determine whether the certification of such business enterprise should be revoked.

6. Statements made in any instrument submitted to Agency pursuant to Section 6-129 shall be submitted under penalty of perjury and any false or misleading statement or omission shall be grounds for the application of any applicable criminal and/or civil penalties for perjury. The making of a false or fraudulent statement by an MBE and/or WBE in any instrument submitted pursuant to Section 6-129 shall, in addition, be grounds for revocation of its certification.

7. The Contractor's record in implementing its **M/WBE** Utilization Plan shall be a factor in the evaluation of its performance. Whenever Agency determines that a Contractor's compliance with an **M/WBE** Utilization Plan has been unsatisfactory, Agency shall, after consultation with the City Chief Procurement Officer, file an advice of caution form for inclusion in VENDEX as caution data.

CONTRACT SIGNATURE PAGE

This Contract is entered by and between the City of New York ("City"), acting by and through the **DEPARTMENT OF DESIGN AND CONSTRUCTION**, and **ADC CONSTRUCTION L.L.C** ("Contractor").

This Contract consists of this contract signature page as well as the following documents ("Contract Documents") which are located in the Documents tab of the PASSPort record titled **85021B0162- HWK797W**.

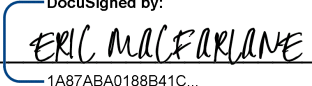
1. (Question answer) - Bid Bond HWK797W.pdf - May 2 2022 2:29PM
2. (Question answer) - QUALIFICATION_FORM HWK797W.pdf - May 2 2022 2:29PM
3. BID BREAKDOWN - May 2 2022 6:53PM
4. broker's Certification - May 3 2022 2:50PM
5. Disability Insurance - May 3 2022 2:52PM
6. HWK797W Addendum 1 - May 2 2022 2:29PM
7. HWK797W Addendum 2 - May 2 2022 2:29PM
8. HWK797W Addendum 3 - May 2 2022 2:29PM
9. HWK797W Addendum 4 - May 2 2022 2:29PM
10. HWK797W DRAWING SET [Addendum 3] - May 2 2022 2:29PM
11. HWK797W Volume 3 [Addendum 3] - May 2 2022 2:29PM
12. HWK797W VOLUME2 - May 2 2022 2:29PM
13. Insurance Certificate - May 3 2022 2:53PM
14. NOTICE TO BIDDERS - COVID19 R3 - May 2 2022 2:29PM
15. Security/Bond - May 3 2022 2:53PM
16. V1 Infra Bid Booklet PASSPort (FHWA) [2022-01-07] [Addendum 1] - May 2 2022 2:29PM
17. worker's Compensation - May 3 2022 2:55PM

The above order does not represent an order of precedence. The Contract shall be governed by the order of precedence, if any, in the Contract Documents or by ordinary contract principles if no such order of precedence exists.

Each party is signing this Contract electronically on the date stated in that party's electronic signature.

The City of New York

By: **DEPARTMENT OF DESIGN AND CONSTRUCTION**

DocuSigned by:

 (Signature) 1A87ABA0188B41C...

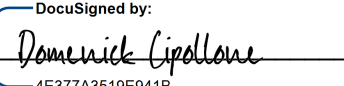
Name: ERIC MACFARLANE

Title: Deputy Commissioner

Date: 5/17/2022 | 07:39:39 PDT

Contractor

By: **ADC CONSTRUCTION L.L.C**

DocuSigned by:

 (Signature) 4E377A3519E941B...

Name: Domenick Cipollone

Title: President

Date: 5/17/2022 | 10:11:16 EDT

ACKNOWLEDGEMENT BY COMMISSIONER

State of _____ County of _____ ss:

On this _____ day of _____, _____, before me personally came _____
to me known, and known to be the Deputy Commissioner of the Department of Design and Construction of
The City of New York, the person described as such in and who as such executed the foregoing instrument
and acknowledged to me that he executed the same as Deputy Commissioner for the purposes therein
mentioned.

Notary Public or Commissioner of Deeds

A U T H O R I T Y

MAYOR'S CERTIFICATE NO. CBX
BUDGET DIRECTOR'S CERTIFICATE NO.

DATED
DATED

APPROPRIATION
COMMISSIONER'S CERTIFICATE

In conformity with the provisions of Section 6-101 of the Administrative Code of the City of New York, it is hereby certified that the estimated cost of the work, materials and supplies required by the within Contract, amounting to

Dollars (\$ _____)

is chargeable to the fund of the Department of Design and Construction entitled Code

Department of Design and Construction

I hereby certify that the specifications contained herein comply with the terms and conditions of the BUDGET.

Commissioner

COMPTROLLER'S CERTIFICATE

The City of New York _____

Pursuant to the provisions of Section 6-101 of the Administrative Code of the City of New York, I hereby certify that there remains unapplied and unexpended a balance of the above mentioned fund applicable to this Contract sufficient to pay the estimated expense of executing the same viz:

\$ _____

Comptroller

MAYOR'S CERTIFICATE OR
CERTIFICATE OF THE DIRECTOR
OF THE BUDGET

Performance Bond #2 (Pages 104 to 107): Use if the total contract price is more than \$5 Million.

PERFORMANCE BOND #2 (Page 1)

Bond #107575166

PERFORMANCE BOND #2

KNOW ALL PERSONS BY THESE PRESENTS:,

That we, ADC Construction, LLC

58-08 48th St.

Maspeth, NY 11378

hereinafter referred to as the "Principal,"

and, Travelers Casualty & Surety Company of America

One Tower Square

Hartford, CT 06183

hereinafter referred to as the "Surety" ("Sureties") are held and firmly bound to THE CITY OF NEW YORK, hereinafter referred to as the "City" or to its successors and assigns in the penal sum of Five Million Four Hundred Eighty Five Thousand Sixty and 34/100

(\$ 5,485,060.34) Dollars, lawful money of the United States for the payment of which said sum of money well and truly to be made, we, and each of us, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal is about to enter, or has entered, into a Contract in writing with the City for Contract #HWK797W - Reconstruction of Schenck Ave. Schenck Ave. from Liberty Ave. to Pitkin Ave. Schenck from Hegeman Ave. to Cozine Ave. Belmont Ave. from Schenck Ave. Barbey St. Including Sewer, Water Main, Street Lighting and Traffic Signal Work Together With All Work Incidental Thereto Borough of Brooklyn

a copy of which Contract is annexed to and hereby made a part of this bond as though herein set forth in full;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal, his or its representatives or assigns, shall well and faithfully perform the said Contract and all modifications, amendments, additions and alterations thereto that may hereafter be made, according to its terms and its true intent and meaning, including repair and or replacement of defective work and guarantees of maintenance for the periods stated in the Contract, and shall fully indemnify and save harmless the City from all cost and damage which it may suffer by reason of the Principal's default of the Contract, and shall fully reimburse and repay the City for all outlay and expense which the City may incur in making

Performance Bond #2 (Pages 104 to 107): Use if the total contract price is more than \$5 Million.

PERFORMANCE BOND #2 (Page 2)

good any such default and shall protect the said City of New York against, and pay any and all amounts, damages, cost and judgments which may or shall be recovered against said City or its officers or agents or which the said City of New York may be called upon to pay any person or corporation by reason of any damages arising or growing out of the Principal's default of the Contract, then this obligation shall be null and void, otherwise to remain in full force and effect.

The Surety (Sureties), for value received, hereby stipulates and agrees, upon written notice from the City that the City has determined that the Principal is in default of the Contract, to either (1) pay the full amount of the above penal sum in complete discharge and exoneration of this bond and of all the liabilities of the Surety relating to this bond, or (2) fully perform and complete the Work to be performed under the Contract, pursuant to the terms, conditions, and covenants thereof. The Surety (Sureties) further agrees, at its option, either to tender the penal sum or to commence and diligently perform the Work specified in the Contract, including physical site work, within twenty-five (25) business days after written notice thereof from the City and to complete all Work within the time set forth in the Contract or such other time as agreed to between the City and Surety in accordance with the Contract. The Surety and the City reserve all rights and defenses each may have against the other; provided, however, that the Surety expressly agrees that its reservation of rights shall not provide a basis for non-performance of its obligation to commence and to complete all Work as provided herein.

The Surety (Sureties), for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of said Surety (Sureties) and its bond shall be in no way impaired or affected by any extension of time, modification, omission, addition, or change in or to the said Contract or the Work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any Work to be performed or any moneys due or to become due thereunder; and said Surety (Sureties) does hereby waive notice of any and all of such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers, and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, subcontractors, and other transferees shall have the same effect as to said Surety (Sureties) as though done or omitted to be done by or in relation to said Principal.

Performance Bond #2 (Pages 104 to 107): Use if the total contract price is more than \$5 Million.

PERFORMANCE BOND #2 (Page 3)

IN WITNESS WHEREOF, The Principal and the Surety (Sureties) have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereunto affixed and these presents to be signed by their proper officers, this

(Seal) 13th day of April 20 22

ADC Construction, LLC (L.S.)
Principal

(Seal) By: *David L...*
Surety

(Seal) By: _____
Travelers Casualty & Surety Company of America
Surety

(Seal) By: *Robert M. Kempner*
Robert M. Kempner, Attorney-In-Fact
Surety

(Seal) By: _____
Surety

(Seal) By: _____
Surety

By: _____

Bond Premium Rate _____

Bond Premium Cost _____

If the Contractor (Principal) is a partnership, the bond should be signed by each of the individuals who are partners.

If the Contractor (Principal) is a corporation, the bond should be signed in its correct corporate name by a duly authorized officer, agent, or attorney-in-fact.

There should be executed an appropriate number of counterparts of the bond corresponding to the number of counterparts of the Contract.

Performance Bond #2 (Pages 104 to 107): Use if the total contract price is more than \$5 Million.

PERFORMANCE BOND #2 (Page 4)

ACKNOWLEDGMENT OF PRINCIPAL IF A CORPORATION

State of _____ County of _____ ss:

On this _____ day of _____, 20 _____ before me personally came _____
to me known, who, being by me duly sworn did depose and say that he resides at _____

_____ ; that he/she is the _____ of the corporation described in and which executed the foregoing instrument; that he/she signed his/her name to the foregoing instrument by order of the directors of said corporation as the duly authorized and binding act thereof.

Notary Public or Commissioner of Deeds.

ACKNOWLEDGMENT OF PRINCIPAL IF A PARTNERSHIP

State of NEW YORK County of QUEENS ss:

On this 13 day of APRIL, 20 20 before me personally came DOMENICK CIPOLLETTI
to me known, who, being by me duly sworn did depose and say that he/she resides at HASTINGS NY

_____ ; that he/she is PRESIDENT partner of ADC CONSTRUCTION, a limited/general partnership existing under the laws of the State of NEW YORK, the partnership described in and which executed the foregoing instrument; and that he/she signed his/her name to the foregoing instrument as the duly authorized and binding act of said partnership.

Melissa Gallagher
Notary Public or Commissioner of Deeds

MELISSA GALLAGHER
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01GA6013314
Qualified in Queens County
Commission Expires 09-14-2022

ACKNOWLEDGMENT OF PRINCIPAL IF AN INDIVIDUAL

State of _____ County of _____ ss:

On this _____ day of _____, 20 _____ before me personally came _____
to me known, who, being by me duly sworn did depose and say that he/she resides at _____

_____ and that he/she is the individual whose name is subscribed to the within instrument and acknowledged to me that by his/her signature on the instrument, said individual executed the instrument.

Notary Public or Commissioner of Deeds

Each executed bond should be accompanied by: (a) appropriate acknowledgments of the respective parties; (b) appropriate duly certified copy of Power of Attorney or other certificate of authority where bond is executed by agent, officer or other representative of Principal or Surety; (c) a duly certified extract from By-Laws or resolutions of Surety under which Power of Attorney or other certificate of authority of its agent, officer or representative was issued, and (d) certified copy of latest published financial statement of assets and liabilities of Surety.

Affix Acknowledgments and Justification of Sureties.

CITY OF NEW YORK
DDC

107

STANDARD CONSTRUCTION CONTRACT
March 2017



Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Robert M. Kempner** of Plainview, New York, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February**, 2017.



State of Connecticut

City of Hartford ss.

By: _____

Robert L. Raney
 Robert L. Raney, Senior Vice President

On this the **3rd** day of **February**, 2017, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2021



Marie C. Tetreault
 Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **13th** day of **April**, 2022



Kevin E. Hughes
 Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CT 06183

PRINCIPAL'S ACKNOWLEDGMENT

State of _____, County of _____ }ss.

On this _____ day of _____ in the year 20____, before me, the undersigned, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public

SURETY COMPANY'S ACKNOWLEDGMENT

State of New York, County of Nassau }ss.

On this 13th day of April in the year 2022, before me, the undersigned, personally appeared Robert M. Kempner, personally known to me, and who, being by me duly sworn, did depose and say: That he/she resides in Centerport, NY; that he/she is Attorney-in-Fact of **TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA**, the corporation described in and which executed the within instrument; that he/she knows the corporate seal of said Company; that the seal affixed to said instrument is such corporate seal; and that he/she signed said instrument as Attorney-in-Fact by authority of the Board of Directors of said Company; and affiant did further depose and say that the Superintendent of the State of New York Department of Financial Services has, pursuant to Section 1111 of the New York Insurance Law, issued to **TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA** his/her certificate that said Company is qualified to become and be accepted as surety or guarantor on all bonds, undertakings, recognizances, guaranties, and other obligations required or permitted by law; and that such certificate has not been revoked.

L

Notary Public

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2021

AS FILED IN THE STATE OF NEW YORK

CAPITAL STOCK \$ 6,480,000

LYNN ANN INFANTI
Notary Public, State of New York
No. 011N6004351
Qualified in Suffolk County 2024
Commission Expires March 28, _____

ASSETS		LIABILITIES & SURPLUS	
BONDS	\$ 4,427,068,873	LOSSES	\$ 1,224,258,147
STOCKS	90,892,083	LOSS ADJUSTMENT EXPENSES	157,266,812
CASH AND INVESTED CASH	3,976,380	COMMISSIONS	49,977,644
OTHER INVESTED ASSETS	4,609,133	OTHER EXPENSES	46,607,590
SECURITIES LENDING REINVESTED COLLATERAL ASSETS	7,433,086	TAXES, LICENSES AND FEES	16,655,025
INVESTMENT INCOME DUE AND ACCRUED	37,877,324	CURRENT FEDERAL AND FOREIGN INCOME TAXES	1,972,277
PREMIUM BALANCES	294,081,729	UNEARNED PREMIUMS	1,212,347,629
REINSURANCE RECOVERABLE	70,677,646	ADVANCE PREMIUM	1,824,313
NET DEFERRED TAX ASSET	60,156,960	POLICYHOLDER DIVIDENDS	14,256,052
OTHER ASSETS	3,286,703	CEDED REINSURANCE NET PREMIUMS PAYABLE	47,473,619
		AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS	42,097,038
		REMITTANCES AND ITEMS NOT ALLOCATED	10,579,448
		PROVISION FOR REINSURANCE	6,873,132
		PAYABLE TO PARENT, SUBSIDIARIES AND AFFILIATES	40,373,235
		PAYABLE FOR SECURITIES LENDING	7,433,086
		ESCHEAT LIABILITY	537,132
		RETROACTIVE REINSURANCE RESERVE ASSUMED	816,092
		OTHER ACCRUED EXPENSES AND LIABILITIES	250,005
		TOTAL LIABILITIES	<u>\$ 2,881,598,277</u>
		CAPITAL STOCK	\$ 6,480,000
		PAID IN SURPLUS	433,803,760
		OTHER SURPLUS	1,678,177,878
		TOTAL SURPLUS TO POLICYHOLDERS	<u>\$ 2,118,461,638</u>
TOTAL ASSETS	<u>\$ 5,000,059,915</u>	TOTAL LIABILITIES & SURPLUS	<u>\$ 5,000,059,915</u>

Payment Bond (Pages 108 to 111): Use for any contract for which a Payment Bond is required.

PAYMENT BOND (Page 1)

PAYMENT BOND

Bond #107575166

KNOW ALL PERSONS BY THESE PRESENTS, That we, _____

ADC Construction, LLC

58-08 48th St.

Maspeth, NY 11378

hereinafter referred to as the "Principal", and _____

Travelers Casualty & Surety Company of America

One Tower Square

Hartford, CT 06183

hereinafter referred to as the "Surety" ("Sureties") are held and firmly bound to THE CITY OF NEW YORK, hereinafter referred to as the "City" or to its successors and assigns, in the penal sum of

Five Million Four Hundred Eighty Five Thousand Sixty and 34/100

(\$5,485,060.34) Dollars, lawful money of the United States, for the payment of which said sum of money well and truly to be made, we, and each of us, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal is about to enter, or has entered, into a Contract in writing with the City for Contract #HWK797W - Reconstruction of Schenck Ave. Schenck Ave. from Liberty Ave. to Pitkin Ave. Schenck from Hegeman Ave. to Cozine Ave. Belmont Ave. from Schenck Ave. Barbey St. Including Sewer, Water Main, Street Lighting and Traffic Signal Work Together

With All Work Incidental Thereto Borough of Brooklyn
a copy of which Contract is annexed to and hereby made a part of this bond as though herein set forth in full;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal, his or its representatives or assigns and other Subcontractors to whom Work under this Contract is sublet and his or their successors and assigns shall promptly pay or cause to be paid all lawful claims for

(a) Wages and compensation for labor performed and services rendered by all persons engaged in the prosecution of the Work under said Contract, and any amendment or extension thereof or addition thereto, whether such persons be agents servants or employees of the Principal or any such Subcontractor, including all persons so engaged who perform the work of laborers or mechanics at or in the vicinity of the site

Payment Bond (Pages 108 to 111): Use for any contract for which a Payment Bond is required.

PAYMENT BOND (Page 2)

of the Project regardless of any contractual relationship between the Principal or such Subcontractors, or his or their successors or assigns, on the one hand and such laborers or mechanics on the other, but not including office employees not regularly stationed at the site of the project; and

(b) Materials and supplies (whether incorporated in the permanent structure or not), as well as teams, fuels, oils, implements or machinery furnished, used or consumed by said Principal or any subcontractor at or in the vicinity of the site of the Project in the prosecution of the Work under said Contract and any amendment or extension thereof or addition thereto; then this obligation shall be void, otherwise to remain in full force and effect.

This bond is subject to the following additional conditions, limitations and agreements:

(a) The Principal and Surety (Sureties) agree that this bond shall be for the benefit of any materialmen or laborer having a just claim, as well as the City itself.

(b) All persons who have performed labor, rendered services or furnished materials and supplies, as aforesaid, shall have a direct right of action against the Principal and his, its or their successors and assigns, and the Surety (Sureties) herein, or against either or both or any of them and their successors and assigns. Such persons may sue in their own name, and may prosecute the suit to judgment and execution without the necessity of joining with any other persons as party plaintiff.

(c) The Principal and Surety (Sureties) agree that neither of them will hold the City liable for any judgment for costs of otherwise, obtained by either or both of them against a laborer or materialman in a suit brought by either a laborer or materialman under this bond for moneys allegedly due for performing work or furnishing material.

(d) The Surety (Sureties) or its successors and assigns shall not be liable for any compensation recoverable by an employee or laborer under the Workmen's Compensation Law.

(e) In no event shall the Surety (Sureties), or its successors or assigns, be liable for a greater sum than the penalty of this bond or be subject to any suit, action or proceeding hereon that is instituted by any person, firm, or corporation hereunder later than two years after the complete performance of said Contract and final settlement thereof.

The Principal, for himself and his successors and assigns, and the Surety (Sureties), for itself and its successors and assigns, do hereby expressly waive any objection that might be interposed as to the right of the City to require a bond containing the foregoing provisions, and they do hereby further expressly waive any defense which they or either of them might interpose to an action brought hereon by any person, firm or corporation, including subcontractors, materialmen and third persons, for work, labor, services, supplies or material performed rendered, or furnished as aforesaid upon the ground that there is no law authorizing the City to require the foregoing provisions to be place in this bond.

And the Surety (Sureties), for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of said Surety (Sureties), and its bonds shall be in no way impaired or affected by any extension of time, modification, omission, addition, or change in or of the said Contract or the work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any part thereof, or of any Work to be performed, or any moneys due to become due thereunder and said Surety (Sureties) does hereby waive notice of any and all of such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers, and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, Subcontractors, and other transferees shall have the same effect as to said Surety (Sureties) as though done or omitted to be done or in relation to said Principal.

Payment Bond (Pages 108 to 111): Use for any contract for which a Payment Bond is required.

PAYMENT BOND (Page 3)

IN WITNESS WHEREOF, the Principal and the Surety (Sureties) have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereunto affixed and these presents to be signed by their proper officers, this 13th day of April, 2022.

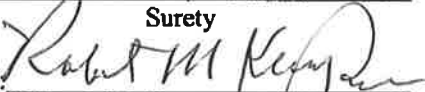
(Seal)

ADC Construction, LLC (L.S.)
Principal

By: 

(Seal)

Travelers Casualty & Surety Company of America
Surety

By: 
Robert M. Kempner, Attorney-In-Fact

(Seal)

Surety

By: _____

(Seal)

Surety

By: _____

(Seal)

Surety

By: _____

If the Contractor (Principal) is a partnership, the bond should be signed by each of the individuals who are partners.

If the Contractor (Principal) is a corporation, the bond should be signed in its correct corporate name by a duly authorized officer, agent, or attorney-in-fact.

There should be executed an appropriate number of counterparts of the bond corresponding to the number of counterparts of the Contract.

Payment Bond (Pages 108 to 111): Use for any contract for which a Payment Bond is required.

PAYMENT BOND (Page 4)

ACKNOWLEDGMENT OF PRINCIPAL, IF A CORPORATION

State of _____ County of _____ ss:

On this _____ day of _____, _____, before me personally came _____ to me known, who, being by me duly sworn did depose and say that he resides at _____ that he is the _____ of the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that one of the seals affixed to said instrument is such seal; that it was so affixed by order of the directors of said corporation, and that he signed his name thereto by like order.

Notary Public or Commissioner of Deeds

ACKNOWLEDGMENT OF PRINCIPAL, IF A PARTNERSHIP

State of New York County of Queens ss:

On this 13 day of April, 2022, before me personally appeared DOMENICK Cipollone to me known, and known to me to be one of the members of the firm of ADC Construction described in and who executed the foregoing instrument; and he acknowledged to me that he executed the same as and for the act and deed of said firm.

MELISSA GALLAGHER
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01GA6013314
Qualified in Queens County
Commission Expires 09-14-2022

Melissa Gallagher
Notary Public or Commissioner of Deeds

ACKNOWLEDGMENT OF PRINCIPAL, IF AN INDIVIDUAL

State of _____ County of _____ ss:

On this _____ day of _____, _____, before me personally appeared _____ to me known, and known to me to be the person described in and who executed the foregoing instrument; and acknowledged that he executed the same.

Notary Public or Commissioner of Deeds

Each executed bond should be accompanied by: (a) appropriate acknowledgments of the respective parties; (b) appropriate duly certified copy of Power of Attorney or other certificate of authority where bond is executed by agent, officer or other representative of Principal or Surety; (c) a duly certified extract from By-Laws or resolutions of Surety under which Power of Attorney or other certificate of authority of its agent, officer or representative was issued, and (d) certified copy of latest published financial statement of assets and liabilities of Surety.

Affix Acknowledgments and Justification of Sureties.



Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Robert M. Kempner of Plainview, New York**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd day of February, 2017**.



State of Connecticut

City of Hartford ss.

By: 

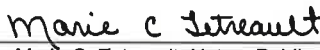
Robert L. Raney, Senior Vice President

On this the **3rd day of February, 2017**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th day of June, 2021**




Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **13th** day of **April**, 2022




Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
HARTFORD, CT 06183

PRINCIPAL'S ACKNOWLEDGMENT

State of _____, County of _____ } ss.

On this _____ day of _____ in the year 20____, before me, the undersigned, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public

SURETY COMPANY'S ACKNOWLEDGMENT

State of New York, County of Nassau } ss.

On this 13th day of April in the year 2022, before me, the undersigned, personally appeared Robert M. Kempner, personally known to me, and who, being by me duly sworn, did depose and say: That he/she resides in Centerport, NY; that he/she is Attorney-in-Fact of **TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA**, the corporation described in and which executed the within instrument; that he/she knows the corporate seal of said Company; that the seal affixed to said instrument is such corporate seal; and that he/she signed said instrument as Attorney-in-Fact by authority of the Board of Directors of said Company; and affiant did further depose and say that the Superintendent of the State of New York Department of Financial Services has, pursuant to Section 1111 of the New York Insurance Law, issued to **TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA** his/her certificate that said Company is qualified to become and be accepted as surety or guarantor on all bonds, undertakings, recognizances, guaranties, and other obligations required or permitted by law; and that such certificate has not been revoked.

Notary Public

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2021

AS FILED IN THE STATE OF NEW YORK

CAPITAL STOCK \$ 6,480,000

LYNN ANN INFANTI
Notary Public, State of New York
No. 011N6004351
Qualified in Suffolk County
Commission Expires March 23, 2024

ASSETS		LIABILITIES & SURPLUS	
BONDS	\$ 4,427,068,873	LOSSES	\$ 1,224,258,147
STOCKS	90,892,083	LOSS ADJUSTMENT EXPENSES	157,266,812
CASH AND INVESTED CASH	3,976,380	COMMISSIONS	49,977,644
OTHER INVESTED ASSETS	4,609,133	OTHER EXPENSES	46,607,590
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PREMIUM BALANCES	294,081,729	UNEARNED PREMIUMS	1,212,347,629
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OTHER ASSETS	3,286,703	CEDED REINSURANCE NET PREMIUMS PAYABLE	47,473,619
		AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS	42,097,038
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		PAYABLE TO PARENT, SUBSIDIARIES AND AFFILIATES	40,373,235
		PAYABLE FOR SECURITIES LENDING	7,433,086
		ESCHEAT LIABILITY	537,132
		RETROACTIVE REINSURANCE RESERVE ASSUMED	816,092
		OTHER ACCRUED EXPENSES AND LIABILITIES	250,005
		TOTAL LIABILITIES	\$ 2,881,598,277
		CAPITAL STOCK	\$ 6,480,000
		PAID IN SURPLUS	433,803,760
		OTHER SURPLUS	1,678,177,878
		TOTAL SURPLUS TO POLICYHOLDERS	\$ 2,118,461,638
TOTAL ASSETS	\$ 5,000,059,915	TOTAL LIABILITIES & SURPLUS	\$ 5,000,059,915



ADCCONS-02

LINFANTI

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/13/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Vanguard Coverage 101 Sunnyside Blvd Suite 100 Plainview, NY 11803	CONTACT NAME: Lynn Infanti	
	PHONE (A/C, No, Ext): (516) 349-1333 302 FAX (A/C, No):	
	E-MAIL ADDRESS: certificates@vanguardcoverage.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Starr Indemnity & Liability Company	38318
INSURED ADC Construction, LLC 58-08 48th Street Maspeth, NY 11378	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			1000025450211	10/18/2021	10/18/2022	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			1000198712211	10/18/2021	10/18/2022	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$			1000584669211	10/18/2021	10/18/2022	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	1000001321	10/18/2021	10/18/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE:Project ID.: HWK797W, 30-30 THOMSON AVENUE., LONG ISLAND CITY, NY 11101.

The following are included as additional insureds where required by written contract:

City of New York, including its officials and employees., New York State, including its officials and employees., Federal Highway Administration (FHWA), its officials and employees, The New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit., Operation Authority (MaBSTOA), Staten Island., Rapid Transit Operation Authority (SIRTOA), Metropolitan Transportation Authority (MTA), its subsidiaries and affiliated companies.

Insurance coverage shall be on a primary and non-contributory basis where required by written contract.

A waiver of subrogation is included in favor of the additional insureds where required by written contract.

CERTIFICATE HOLDER

CANCELLATION

New York City Department of Design and Construction 30-30 THOMSON AVENUE LONG ISLAND CITY, NY 11101	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

CITY OF NEW YORK

CERTIFICATION BY INSURANCE BROKER OR AGENT

The undersigned insurance broker represents to the City of New York that the attached Certificate of Insurance is accurate in all material respects.

Vanguard Coverage

[Name of broker or agent (typewritten)]

101 Sunnyside Blvd Suite 100 Flushing NY 11353

[Address of broker or agent (typewritten)]

Rburger@VanguardCoverage.com

[Email address of broker or agent (typewritten)]

516-349-1333

[Phone number/Fax number of broker or agent (typewritten)]

[Signature]

[Signature of authorized official, broker, or agent]

Robin Burger - Senior Account Manager

[Name and title of authorized official, broker, or agent (typewritten)]

State of NY)
County of Nassau) ss.:

Sworn to before me this 13th day of April, 2022

NOTARY PUBLIC FOR THE STATE OF NY

LYNN ANN INFANTI
Notary Public, State of New York
No. 01IN6004351
Qualified in Suffolk County
Commission Expires March 23, 2026



Workers'
Compensation
Board

CERTIFICATE OF INSURANCE COVERAGE

NYS DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by NYS disability and Paid Family Leave benefits carrier or licensed insurance agent of that carrier

<p>1a. Legal Name & Address of Insured (use street address only) ADC CONSTRUCTION LLC. ATT: DOMINICK CIPOLLONE 58-08 48TH STREET MASPETH, NY 11378</p> <p>Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy)</p>	<p>1b. Business Telephone Number of Insured 7186280234</p> <p>1c. Federal Employer Identification Number of Insured or Social Security Number 11-3353007</p>
<p>2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) NYC DEPT OF DISGN & CONSTRUCTION 30-30 THOMSON AVENUE LONG ISLAND CITY, NY 11101</p>	<p>3a. Name of Insurance Carrier Standard Security Life Insurance Company of New York</p> <p>3b. Policy Number of Entity Listed in Box 1a R90999-000</p> <p>3c. Policy Effective Period 1/1/2013 to 1/16/2023</p>

4. Policy provides the following benefits:

- ☒ A. Both disability and Paid Family Leave benefits.
☐ B. Disability benefits only.
☐ C. Paid Family Leave benefits only.

5. Policy covers:

- ☒ A. All of the employer's employees eligible under the NYS Disability and Paid Family Leave Benefits Law.
☐ B. Only the following class or classes of employer's employees:

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has NYS disability and/or Paid Family Leave benefits insurance coverage as described above.

Date Signed 1/17/2022

By

(Signature of insurance carrier's authorized representative or NYS licensed insurance agent of that insurance carrier)

Telephone Number (212) 355-4141

Name and Title

SUPERVISOR-DBL/POLICY SERVICES

IMPORTANT: If Boxes 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be emailed to PAU@wcb.ny.gov or it can be mailed for completion to the Workers' Compensation Board, Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200.

PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4B, 4C or 5B of Part 1 has been checked)

State of New York Workers' Compensation Board

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law (Article 9 of the Workers' Compensation Law) with respect to all of their employees.

Date Signed

By

(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number

Name and Title





**Workers'
Compensation
Board**

**CERTIFICATE OF
NYS WORKERS' COMPENSATION INSURANCE COVERAGE**

1a. Legal Name & Address of Insured (use street address only) ADC Construction LLC 58-08 48th Street Maspeth, NY 11378 Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., a Wrap-Up Policy)	1b. Business Telephone Number of Insured 718-628-5555 1c. NYS Unemployment Insurance Employer Registration Number of Insured 1d. Federal Employer Identification Number of Insured or Social Security Number 11-3353007
2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) City of New York Department of Design and Construction 30-30 Thomson Ave Long Island City, NY 11101	3a. Name of Insurance Carrier Starr Indemnity & Liability Co. 3b. Policy Number of Entity Listed in Box "1a" 1000001321 3c. Policy effective period 10/18/2021 to 10/18/2022 3d. The Proprietor, Partners or Executive Officers are <input type="checkbox"/> included. (Only check box if all partners/officers included) <input checked="" type="checkbox"/> all excluded or certain partners/officers excluded.

This certifies that the insurance carrier indicated above in box "3" insures the business referenced above in box "1a" for workers' compensation under the New York State Workers' Compensation Law. **(To use this form, New York (NY) must be listed under Item 3A on the INFORMATION PAGE of the workers' compensation insurance policy).** The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed above as the certificate holder in box "2".

Will the carrier notify the certificate holder within 10 days of a policy being cancelled for non-payment of premium or within 30 days if cancelled for any other reason or if the insured is otherwise eliminated from the coverage indicated on this certificate prior to the end of the policy effective period? ☒ YES ☐ NO

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policy listed, nor does it confer any rights or responsibilities beyond those contained in the referenced policy.

This certificate may be used as evidence of a Workers' Compensation contract of insurance only while the underlying policy is in effect.

Please Note: Upon cancellation of the workers' compensation policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of Workers' Compensation Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Workers' Compensation Law.

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has the coverage as depicted on this form.

Approved by: Robin Burger
(Print name of authorized representative or licensed agent of insurance carrier)

Approved by: [Signature]
(Signature)

4/13/2022
(Date)

Title: Senior Account Manager

Telephone Number of authorized representative or licensed agent of insurance carrier: 516-349-1333

Please Note: Only insurance carriers and their licensed agents are authorized to issue Form C-105.2. Insurance brokers are NOT authorized to issue it.

(NO TEXT ON THIS PAGE)

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

LABOR LAW ARTICLE 8 - NYC PUBLIC WORKS

Workers, Laborers and Mechanics employed on a public work project must receive not less than the prevailing rate of wage and benefits for the classification of work performed by each upon such public work. Pursuant to New York Labor Law Article 8 the Comptroller of the City of New York has promulgated this schedule solely for Workers, Laborers and Mechanics engaged by private contractors on New York City public work projects. Prevailing rates are required to be annexed to and form part of the public work contract pursuant to Labor Law section 220 (3).

This schedule is a compilation of separate determinations of the prevailing rate of wage and supplements made by the Comptroller for each trade classification listed herein pursuant to Labor Law section 220 (5). The source of the wage and supplement rates, whether a collective bargaining agreement, survey data or other, is listed at the end of each classification.

Agency Chief Contracting Officers should contact the Bureau of Labor Law's Classification Unit with any questions concerning trade classifications, prevailing rates or prevailing practices with respect to procurement on New York City public work contracts. Contractors are advised to review the Comptroller's Prevailing Wage Schedule before bidding on public work contracts. Contractors with questions concerning trade classifications, prevailing rates or prevailing practices with respect to public work contracts in the procurement stage must contact the contracting agency responsible for the procurement.

Any error as to compensation under the prevailing wage law or other information as to trade classification, made by the contracting agency in the contract documents or in any other communication, will not preclude a finding against the contractor of prevailing wage violation.

Any questions concerning trade classifications, prevailing rates or prevailing practices on New York City public work contracts that have already been awarded may be directed to the Bureau of Labor Law's Classification Unit by calling (212) 669-4443. All callers must have the agency name and contract registration number available when calling with questions on public work contracts. Please direct all other compliance issues to: Bureau of Labor Law, Attn: Wasyl Kinach, P.E., Office of the Comptroller, 1 Centre Street, Room 651, New York, N.Y. 10007; Fax (212) 669-4002.

Pursuant to Labor Law § 220 (3-a) (a), the appropriate schedule of prevailing wages and benefits must be posted in a prominent and accessible place at all public work sites along with the Construction Poster provided on our web site at comptroller.nyc.gov/wages. In addition, covered employees must be given the appropriate schedule of prevailing wages and benefits along with the Worker Notice provided on our web site at the time the public work project begins, and with the first paycheck to each such employee after July first of each year.

This schedule is applicable to work performed during the effective period, unless otherwise noted. Changes to this schedule are published on our web site comptroller.nyc.gov/wages. Contractors must pay the wages and supplements in effect when the worker, laborer, mechanic performs the work. Preliminary schedules for future one-year periods appear in the City Record on or about June 1 each succeeding year. Final schedules appear on or about July 1 in the City Record and on our web site comptroller.nyc.gov/wages.

Prevailing rates and ratios for apprentices are published in the Construction Apprentice Prevailing Wage Schedule. Pursuant to Labor Law § 220 (3-e), only apprentices who are individually registered in a bona fide program to which the employer contractor is a participant, registered with the

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

New York State Department of Labor, may be paid at the apprentice rates. Apprentices who are not so registered must be paid as journey persons.

New York City public work projects awarded pursuant to a Project Labor Agreement (“PLA”) in accordance with Labor Law section 222 may have different labor standards for shift, premium and overtime work. Please refer to the PLA’s pre-negotiated labor agreements for wage and benefit rates applicable to work performed outside of the regular workday. More information is available at the Mayor’s Office of Contract Services (MOCS) web page at:

<https://www1.nyc.gov/site/mocs/legal-forms/project-labor-agreements.page>

All the provisions of Labor Law Article 8 remain applicable to PLA work including, but not limited to, the enforcement of prevailing wage requirements by the Comptroller in accordance with the trade classifications in this schedule; however, we will enforce shift, premium, overtime and other non-standard rates as they appear in a project’s pre-negotiated labor agreement.

In order to meet their obligation to provide prevailing supplemental benefits to each covered employee, employers must either:

- 1) Provide bona fide fringe benefits which cost the employer no less than the prevailing supplemental benefits rate; or
- 2) Supplement the employee’s hourly wage by an amount no less than the prevailing supplemental benefits rate; or
- 3) Provide a combination of bona fide fringe benefits and wage supplements which cost the employer no less than the prevailing supplemental benefits rate in total.

Although prevailing wage laws do not require employers to provide bona fide fringe benefits (as opposed to wage supplements) to their employees, other laws may. For example, the Employee Retirement Income Security Act, 29 U.S.C. § 1001 et seq., the Patient Protection and Affordable Care Act, 42 U.S.C. § 18001 et seq., and the New York City Paid Sick Leave Law, N.Y.C. Admin. Code § 20-911 et seq., require certain employers to provide certain benefits to their employees. Labor agreements to which employers are a party may also require certain benefits. The Comptroller’s Office does not enforce these laws or agreements.

Employers must provide prevailing supplemental benefits at the straight time rate for each hour worked unless otherwise noted in the classification.

Paid Holidays, Vacation and Sick Leave when listed must be paid or provided in addition to the prevailing hourly supplemental benefit rate.

For more information, please refer to the Comptroller’s Prevailing Wage Law Regulations in Title 44 of the Rules of the City of New York, Chapter 2, available at comptroller.nyc.gov/wages.

Wasył Kinach, P.E.
Director of Classifications
Bureau of Labor Law

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

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**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

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ASBESTOS HANDLER SEE HAZARDOUS MATERIAL HANDLER

BLASTER

Blaster

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.71**

Supplemental Benefit Rate per Hour: **\$48.63**

Blaster - Hydraulic Trac Drill

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$50.85**

Supplemental Benefit Rate per Hour: **\$48.63**

Blaster - Wagon: Air Trac: Quarry Bar: Drillrunners

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$50.02**

Supplemental Benefit Rate per Hour: **\$48.63**

Blaster - Journeyperson

(Laborer, Chipper/Jackhammer including Walk Behind Self Propelled Hydraulic Asphalt and Concrete Breakers and Hydro (Water) Demolition, Powder Carrier, Hydraulic Chuck Tender, Chuck Tender and Nipper)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.50**

Supplemental Benefit Rate per Hour: **\$48.63**

Blaster - Magazine Keepers: (Watch Person)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$21.75**

Supplemental Benefit Rate per Hour: **\$48.63**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Thanksgiving Day
Christmas Day

Paid Holidays

Labor Day
Thanksgiving Day

Shift Rates

When two shifts are employed, single time rate shall be paid for each shift. When three shifts are found necessary, each shift shall work seven and one half hours (7 ½), but shall be paid for eight (8) hours of labor, and be permitted one half hour for lunch.

(Local #731)

BOILERMAKER

Boilermaker

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$63.38

Supplemental Benefit Rate per Hour: \$46.67

Supplemental Note: For time and one half overtime - \$69.56 For double overtime - \$92.44

Overtime Description

For Repair and Maintenance work:

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

For New Construction work:

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Columbus Day
Election Day
Veteran's Day
Thanksgiving Day
Christmas Day

Quadruple time the regular rate for work on the following holiday(s).
Labor Day

Paid Holidays

Good Friday
Day after Thanksgiving
Day before Christmas
Day before New Year's Day

Shift Rates

On jobs requiring two (2) or three (3) shifts, the first shift shall work eight (8) hours at the regular straight-time hourly rate. The second shift shall work eight (8) hours and receive eight hours at the regular straight time hourly rate plus two dollars (\$2.00) per hour. The third shift shall work eight (8) hours and receive eight hours at the regular straight time hourly rate plus two dollars and twenty-five cents (\$2.25) per hour.

(Local #5)

BRICKLAYER

Bricklayer

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$57.64**

Supplemental Benefit Rate per Hour: **\$35.95**

Overtime Description

Time and one half the regular rate after a 7 hour day. If working on a job that is predominately Pointer, Cleaner, Caulker work, then Time and one half the regular rate after an 8 hour day.

Overtime

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays
None

Shift Rates

The second shift wage rate shall be a 15% wage premium with no premium for supplemental benefits. There must be a first shift in order to work a second shift. When it is not possible to conduct alteration or repair work during regular working hours in a building occupied by tenants, eight hours will be paid at straight time rate for seven hours of work.

(Bricklayer District Council)

CARPENTER - BUILDING COMMERCIAL

Building Commercial

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$54.75**

Supplemental Benefit Rate per Hour: **\$47.13**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Presidential Election Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

Paid Holidays
None

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Shift Rates

The second shift will receive one hour at the double time rate of pay for the last hour of the shift; eight hours pay for seven hours of work, nine hours pay for eight hours of work. There must be a first shift in order to work a second shift. When it is not possible to conduct alteration or repair work during regular working hours in a building occupied by tenants, the rule for the second shift will apply.

(Carpenters District Council)

CARPENTER - HEAVY CONSTRUCTION WORK

(Construction of Engineered Structures and Building Foundations including all form work)

Heavy Construction Work

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.93**

Supplemental Benefit Rate per Hour: **\$53.49**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

Off shift work commencing between 5:00 P.M. and 11:00 P.M. shall work eight and one half hours allowing for one half hour for lunch. The wage rate shall be 113% of the straight time hourly wage rate. When two (2) or more shifts of Carpenters are employed, single time will be paid for each shift.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

(Carpenters District Council)

CARPENTER - HIGH RISE CONCRETE FORMS **(Excludes Engineered Structures and Building Foundations)**

Carpenter High Rise A

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$50.78**

Supplemental Benefit Rate per Hour: **\$44.44**

Carpenter High Rise B

Carpenter High Rise B worker is excluded from high risk operations such as erection decking, perimeter debris netting, leading edge work, self-climbing form systems, and the installation of cocoon systems unless directly supervised by a Carpenter High Rise A worker.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$40.19**

Supplemental Benefit Rate per Hour: **\$17.75**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

The second shift wage rate shall be 113% of the straight time hourly wage rate. However, any shift beginning after 5:00 P.M. shall be paid at time and one half the regular hourly rate. There must be a first shift in order to work a second shift. When it is not possible to conduct alteration or repair work during regular working hours in a building occupied by tenants, the rule for the second shift will apply.

(Carpenters District Council)

CARPENTER - SIDEWALK SHED, SCAFFOLD AND HOIST

Carpenter - Hod Hoist

(Assisted by Mason Tender)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$52.00**

Supplemental Benefit Rate per Hour: **\$47.40**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

Shift Rates

The second shift will receive 112% of the straight time hourly rate. Benefit fund contributions shall be paid at the straight time rate. There must be a first shift in order to work a second shift. When it is not possible to conduct alteration or repair work during regular working hours in a building occupied by tenants, the rule for the second shift will apply.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

(Carpenters District Council)

CARPENTER - WOOD WATER STORAGE TANK

Tank Mechanic

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$35.69**

Supplemental Benefit Rate per Hour: **\$22.24**

Tank Helper

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$28.23**

Supplemental Benefit Rate per Hour: **\$22.24**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular rate for work on a holiday plus the day's pay.

Paid Holidays

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Thanksgiving Day

Day after Thanksgiving

1/2 day on Christmas Eve if work is performed in the A.M.

Christmas Day

1/2 day on New Year's Eve if work is performed in the A.M.

Vacation

Employed for one (1) year.....one (1) week vacation (40 hours)

Employed for three (3) years.....two (2) weeks vacation (80 hours)

Employed for more than twenty (20) years.....three (3) weeks vacation (120 hours)

SICK LEAVE:

Two (2) sick days after being employed for twenty (20) years.

(Carpenters District Council)

CEMENT & CONCRETE WORKER

Cement & Concrete Worker

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$45.28**

Supplemental Benefit Rate per Hour: **\$30.20**

Supplemental Note: \$34.20 on Saturdays; \$38.20 on Sundays & Holidays

Cement & Concrete Worker - (Hired after 2/6/2016)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$34.80**

Supplemental Benefit Rate per Hour: **\$22.20**

Supplemental Note: \$24.20 on Saturdays; \$26.20 on Sundays & Holidays

Overtime Description

Time and one half the regular rate after 7 hour day (time and one half the regular rate after an 8 hour day when working with Dockbuilders on pile cap forms and for work below street level to the top of the foundation wall, not to exceed 2 feet or 3 feet above the sidewalk-brick shelf, when working on the foundation and structure.)

Overtime

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Paid Holidays

1/2 day before Christmas Day

1/2 day before New Year's Day

Shift Rates

On shift work extending over a twenty-four hour period, all shifts are paid at straight time.

(Cement & Concrete Workers District Council 16)

CEMENT MASON

Cement Mason

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$45.77**

Supplemental Benefit Rate per Hour: **\$41.01**

Supplemental Note: Supplemental benefit time and one half rate: \$71.97; Double time rate: double the base supplemental benefit rate.

Overtime Description

Time and one-half the regular rate after an 8 hour day, double time the regular rate after 10 hours. Time and one-half the regular rate on Saturday, double time the regular rate after 10 hours. Double time the regular rate on Sunday. Four Days a week at Ten (10) hours straight time is allowed.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Paid Holidays

Any worker who reports to work on Christmas Eve or New Year's Eve pursuant to his employer's instruction shall be entitled to three (3) hours afternoon pay without working.

Shift Rates

For off shift work, (at times other than the regular 7:00 A.M. to 3:30 P.M. work day) a cement mason shall be paid at the regular hourly rate plus a 25% per hour differential.

(Local #780) (BCA)

CORE DRILLER

Core Driller

Effective Period: 7/1/2021 - 10/17/2021

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$41.74**
Supplemental Benefit Rate per Hour: **\$29.40**

Effective Period: 10/18/2021 - 6/30/2022
Wage Rate per Hour: **\$42.27**
Supplemental Benefit Rate per Hour: **\$30.60**

Core Driller Helper

Effective Period: 7/1/2021 - 10/17/2021
Wage Rate per Hour: **\$32.92**
Supplemental Benefit Rate per Hour: **\$29.40**

Effective Period: 10/18/2021 - 6/30/2022
Wage Rate per Hour: **\$33.47**
Supplemental Benefit Rate per Hour: **\$30.60**

Core Driller Helper(Third year in the industry)

Effective Period: 7/1/2021 - 10/17/2021
Wage Rate per Hour: **\$29.63**
Supplemental Benefit Rate per Hour: **\$29.40**

Effective Period: 10/18/2021 - 6/30/2022
Wage Rate per Hour: **\$30.12**
Supplemental Benefit Rate per Hour: **\$30.60**

Core Driller Helper (Second year in the industry)

Effective Period: 7/1/2021 - 10/17/2021
Wage Rate per Hour: **\$26.34**
Supplemental Benefit Rate per Hour: **\$29.40**

Effective Period: 10/18/2021 - 6/30/2022
Wage Rate per Hour: **\$26.78**
Supplemental Benefit Rate per Hour: **\$30.60**

Core Driller Helper (First year in the industry)

Effective Period: 7/1/2021 - 10/17/2021
Wage Rate per Hour: **\$23.04**
Supplemental Benefit Rate per Hour: **\$29.40**

Effective Period: 10/18/2021 - 6/30/2022
Wage Rate per Hour: **\$23.43**
Supplemental Benefit Rate per Hour: **\$30.60**

Overtime Description

Time and one half the regular rate for work on a holiday plus Holiday pay when worked.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Shift Rates

When two (2) or more shifts are employed, single time shall be paid for each shift, but those employees employed on a shift other than from 8:00 A.M. to 5:00 P.M. shall, in addition, receive two dollars (\$2.00) per hour differential for each hour worked. When three (3) shifts are needed, each shift shall work seven and one-half (7 ½) hours paid for eight (8) hours of labor and be permitted one-half (½) hour for mealtime.

(Carpenters District Council)

DERRICKPERSON AND RIGGER

Derrick Person & Rigger

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$53.99**

Supplemental Benefit Rate per Hour: **\$55.10**

Supplemental Note: The above supplemental rate applies for work performed in Manhattan, Bronx, Brooklyn and Queens. \$56.52 - For work performed in Staten Island.

Derrick Person & Rigger - Site Work

Assists the Stone Mason-Setter in the setting of stone and paving stone.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$44.86**

Supplemental Benefit Rate per Hour: **\$43.37**

Overtime Description

The first two hours of overtime on weekdays and the first seven hours of work on Saturdays are paid at time and one half for wages and supplemental benefits. All additional overtimes is paid at double time for wages and supplemental benefits. Deduct \$1.42 from the Staten Island hourly benefits rate before computing overtime.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Overtime

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
Washington's Birthday
Good Friday
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

(Local #197)

DIVER

Diver (Marine)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$71.80

Supplemental Benefit Rate per Hour: \$53.49

Diver Tender (Marine)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$51.34

Supplemental Benefit Rate per Hour: \$53.49

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Labor Day
Columbus Day
Presidential Election Day
Thanksgiving Day
Christmas Day

Paid Holidays
None

Shift Rates

When three shifts are utilized each shift shall work seven and one half-hours (7 1/2 hours) and paid for 8 hours, allowing for one half hour for lunch.

(Carpenters District Council)

DOCKBUILDER - PILE DRIVER

Dockbuilder - Pile Driver

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.93**

Supplemental Benefit Rate per Hour: **\$53.49**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Presidential Election Day
Thanksgiving Day
Christmas Day

Paid Holidays
None

Shift Rates

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Off shift work commencing between 5:00 P.M. and 11:00 P.M. shall work eight and one half hours allowing for one half hour for lunch. The wage rate shall be 113% of the straight time hourly wage rate.

(Carpenters District Council)

DRIVER: TRUCK (TEAMSTER)

Driver - Dump Truck

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.83**

Supplemental Benefit Rate per Hour: **\$51.55**

Supplemental Note: Over 40 hours worked: at time and one half rate - \$22.50; at double time rate - \$30.00

Driver - Tractor Trailer

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.12**

Supplemental Benefit Rate per Hour: **\$51.50**

Supplemental Note: Over 40 hours worked: at time and one half rate - \$22.50; at double time rate - \$30.00

Driver - Euclid & Turnapull Operator

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.68**

Supplemental Benefit Rate per Hour: **\$51.50**

Supplemental Note: Over 40 hours worked: at time and one half rate - \$22.50; at double time rate - \$30.00

Overtime Description

For Paid Holidays: Holiday pay for all holidays shall be prorated based two hours per day for each day worked in the holiday week, not to exceed 8 hours of holiday pay. For Thanksgiving week, the prorated share shall be 5 1/3 hours of holiday pay for each day worked in Thanksgiving week.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Veteran's Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

Paid Holidays

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Veteran's Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

Shift Rates

Off shift work commencing between 6:00 P.M. and 4:30 A.M. shall work eight and one half (8 1/2) hours allowing for one half hour for lunch and receive 9 hours pay for 8 hours of work.

Driver Redi-Mix (Sand & Gravel)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$40.89**

Supplemental Benefit Rate per Hour: **\$47.01**

Supplemental Note: Over 40 hours worked: time and one half rate \$18.01; double time rate \$24.01

Overtime Description

For Paid Holidays: Employees who do not work on a contractual holiday shall be compensated two (2) hours extra pay in straight time wages and benefits for every day on which the Employee does not pass up a day's work during the calendar week (Sunday through Saturday) of the holiday, up to a maximum of ten (10) hours in wages and eight (8) hours in benefit contributions for the holiday

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

President's Day
Columbus Day
Veteran's Day

Triple time the regular rate for work on the following holiday(s).

New Year's Day
Memorial Day
Independence Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Election Day
Thanksgiving Day
Christmas Day

(Local #282)

ELECTRICIAN

(Including installation of low voltage cabling carrying data, video and/or voice on building construction/alteration/renovation projects.)

Electrician "A" (Regular Day / Day Shift)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$58.00**

Supplemental Benefit Rate per Hour: **\$54.86**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician "A" (Regular Day Overtime after 7 hrs / Day Shift Overtime after 8 hrs)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$87.00**

Supplemental Benefit Rate per Hour: **\$56.73**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician "A" (Swing Shift)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$68.05**

Supplemental Benefit Rate per Hour: **\$62.39**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician "A" (Swing Shift Overtime after 7.5 hours)

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$102.08**

Supplemental Benefit Rate per Hour: **\$64.58**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician "A" (Graveyard Shift)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$76.23**

Supplemental Benefit Rate per Hour: **\$68.74**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician "A" (Graveyard Shift Overtime after 7 hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$114.35**

Supplemental Benefit Rate per Hour: **\$71.19**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

*** Supplemental Benefit Rate per Hour Note**

In addition to the Supplemental Benefit Rates per Hour listed above, the employer must provide an additional 6.2% of taxable gross pay earned on covered work only. This additional Supplemental Benefit Rate will terminate when the employee has contributed the maximum annual Social Security tax required by law, on all work performed.

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on a holiday.

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

Shift Rates

For multiple shifts of temporary light and/or power, the temporary light and/or power employee shall be paid for 8 hours at the straight time rate. For three or less workers performing 8 hours temporary light and/or power the supplemental benefit rate is \$21.86 - See * Supplemental Benefit Rate per Hour Note above.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Electrician "M" (First 8 hours)

"M" rated work shall be defined as jobbing: electrical work of limited duration and scope, also consisting of repairs and/or replacement of electrical and tele-data equipment. Includes all work necessary to retrofit, service, maintain and repair all kinds of lighting fixtures and local lighting controls and washing and cleaning of foregoing fixtures.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$30.50**

Supplemental Benefit Rate per Hour: **\$24.45**

First and Second Year "M" Wage Rate Per Hour: **\$26.00**

First and Second Year "M" Supplemental Rate: **\$22.06**

Electrician "M" (Overtime After First 8 hours)

"M" rated work shall be defined as jobbing: electrical work of limited duration and scope, also consisting of repairs and/or replacement of electrical and tele-data equipment. Includes all work necessary to retrofit, service, maintain and repair all kinds of lighting fixtures and local lighting controls and washing and cleaning of foregoing fixtures.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$45.75**

Supplemental Benefit Rate per Hour: **\$26.38**

First and Second Year "M" Wage Rate Per Hour: **\$39.00**

First and Second Year "M" Supplemental Rate: **\$23.70**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

(Local #3)

ELECTRICIAN - ALARM TECHNICIAN

(Scope of Work - Inspect, test, repair, and replace defective, malfunctioning, or broken devices, components and controls of Fire, Burglar and Security Systems)

Alarm Technician

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$33.90**

Supplemental Benefit Rate per Hour: **\$18.43**

Supplemental Note: \$16.80 only after 8 hours worked in a day

Overtime Description

Time and one half the regular rate for work on the following holidays: Columbus Day, Veterans Day, Day after Thanksgiving.

Double time the regular rate for work on the following holidays: New Year's day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Paid Holidays

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Shift Rates

Night Differential is based upon a ten percent (10%) differential between the hours of 4:00 P.M. and 12:30 A.M. and a fifteen percent (15%) differential for the hours 12:00 A.M. to 8:30 A.M.

Vacation

At least 1 year of employment.....ten (10) days

5 years or more of employment.....fifteen (15) days

10 years of employment.....twenty (20) days

Plus one Personal Day per year

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Sick Days:

One day per Year. Up to 4 vacation days may be used as sick days.

(Local #3)

ELECTRICIAN-STREET LIGHTING WORKER

Electrician - Electro Pole Electrician

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$58.00**

Supplemental Benefit Rate per Hour: **\$56.83**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician - Electro Pole Foundation Installer

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.16**

Supplemental Benefit Rate per Hour: **\$42.15**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

Electrician - Electro Pole Maintainer

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$37.11**

Supplemental Benefit Rate per Hour: **\$38.04**

* Supplemental Note: See Supplemental Benefit Rate per Hour Note below

*** Supplemental Benefit Rate per Hour Note**

In addition to the Supplemental Benefit Rates per Hour listed above, the employer must provide an additional 6.2% of taxable gross pay earned on covered work only. This additional Supplemental Benefit Rate will terminate when the employee has contributed the maximum annual Social Security tax required by law, on all work performed.

Overtime Description

Electrician - Electro Pole Electrician: Time and one half the regular rate after a 7 hour day and after 5 consecutive days worked per week.

Electrician - Electro Pole Foundation Installer: Time and one half the regular rate after 8 hours within a 24 hour period and Saturday and Sunday.

Electrician - Electro Pole Maintainer: Time and one half the regular rate after a 7 hour day and after 5 consecutive days worked per week. Saturdays and Sundays may be used as a make-up day at straight time when a day is lost during the week to inclement weather.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Veteran's Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

Paid Holidays

None

(Local #3)

ELEVATOR CONSTRUCTOR

Elevator Constructor

Effective Period: 7/1/2021 - 3/16/2022

Wage Rate per Hour: **\$72.29**

Supplemental Benefit Rate per Hour: **\$38.29**

Effective Period: 3/17/2022 - 6/30/2022

Wage Rate per Hour: **\$75.14**

Supplemental Benefit Rate per Hour: **\$39.10**

Overtime Description

For New Construction: work performed after an 8 hour day, Saturday, Sunday or between 4:30pm and 7:00am shall be paid at double time rate.

Existing buildings: work performed after an 8 hour day, Saturday, Sunday or between 5:30pm and 7:00 am shall be paid time and one half.

Overtime

Double time the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day
President's Day
Good Friday
Memorial Day
Independence Day
Labor Day
Columbus Day
Veteran's Day
Thanksgiving Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Day after Thanksgiving
Christmas Day

Vacation

Employer contributes 8% of regular basic hourly rate as vacation pay for employees with more than 15 years of service, and 6% for employees with 5 to 15 years of service, and 4% for employees with less than 5 years of service.

(Local #1)

ELEVATOR REPAIR & MAINTENANCE

Elevator Service/Modernization Mechanic

Effective Period: 7/1/2021 - 3/16/2022

Wage Rate per Hour: **\$56.77**

Supplemental Benefit Rate per Hour: **\$38.19**

Effective Period: 3/17/2022 - 6/30/2022

Wage Rate per Hour: **\$59.09**

Supplemental Benefit Rate per Hour: **\$39.00**

Overtime Description

For Scheduled Service Work: Double time - work scheduled in advance by two or more workers performed on Sundays, Holidays, and between midnight and 7:00am.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Time and one half the regular rate for work on a holiday plus the day's pay.

Paid Holidays

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Shift Rates

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Afternoon shift - regularly hourly rate plus a (15%) fifteen percent differential. Graveyard shift - time and one half the regular rate.

Vacation

Employer contributes 8% of regular basic hourly rate as vacation pay for employees with more than 15 years of service, and 6% for employees with 5 to 15 years of service, and 4% for employees with less than 5 years of service.

(Local #1)

ENGINEER

Engineer - Heavy Construction Operating Engineer I

Cherry pickers 20 tons and over and Loaders (rubber tired and/or tractor type with a manufacturer's minimum rated capacity of six cubic yards and over).

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$74.65**

Supplemental Benefit Rate per Hour: **\$42.06**

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: **\$119.44**

Engineer - Heavy Construction Operating Engineer II

Backhoes, Basin Machines, Groover, Mechanical Sweepers, Bobcat, Boom Truck, Barrier Transport (Barrier Mover) & machines of similar nature. Operation of Churn Drills and machines of a similar nature, Stetco Silent Hoist and machines of similar nature, Vac-Alls, Meyers Machines, John Beam and machines of a similar nature, Ross Carriers and Travel Lifts and machines of a similar nature, Bulldozers, Scrapers and Turn-a-Pulls: Tugger Hoists (Used exclusively for handling excavated material); Tractors with attachments, Hyster and Roustabout Cranes, Cherry pickers. Austin Western, Grove and machines of a similar nature, Scoopmobiles, Monorails, Conveyors, Trenchers: Loaders-Rubber Tired and Tractor: Barber Greene and Eimco Loaders and Eimco Backhoes; Mighty Midget and similar breakers and Tampers, Curb and Gutter Pavers and Motor Patrol, Motor Graders and all machines of a similar nature. Locomotives 10 Tons or under. Mini-Max, Break-Tech and machines of a similar nature; Milling machines, robotic and demolition machines and machines of a similar nature, shot blaster, skid steer machines and machines of a similar nature including bobcat, pile rig rubber-tired excavator (37,000 lbs. and under), 2 man auger.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$72.40**

Supplemental Benefit Rate per Hour: **\$42.06**

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: **\$115.84**

Engineer - Heavy Construction Operating Engineer III

Minor Equipment such as Tractors, Post Hole Diggers, Ditch Witch (Walk Behind), Road Finishing Machines, Rollers five tons and under, Tugger Hoists, Dual Purpose Trucks, Fork Lifts, and Dempsey Dumpers, Fireperson.

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$68.62

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$109.79

Engineer - Heavy Construction Maintenance Engineer I

Installing, Repairing, Maintaining, Dismantling and Manning of all equipment including Steel Cutting, Bending and Heat Sealing Machines, Mechanical Heaters, Grout Pumps, Bentonite Pumps & Plants, Screening Machines, Fusion Coupling Machines, Tunnel Boring Machines Moles and Machines of a similar nature, Power Packs, Mechanical Hydraulic Jacks; all drill rigs including but not limited to Churn, Rotary Caisson, Raised Bore & Drills of a similar nature; Personnel, Inspection & Safety Boats or any boats used to perform functions of same, Mine Hoists, Whirlies, all Climbing Cranes, all Tower Cranes, including but not limited to Truck Mounted and Crawler Type and machines of similar nature; Maintaining Hydraulic Drills and machines of a similar nature; Well Point System-Installation and dismantling; Burning, Welding, all Pumps regardless of size and/or motor power, except River Cofferdam Pumps and Wells Point Pumps; Motorized Buggies (three or more); equipment used in the cleaning and televising of sewers, but not limited to jet-rodder/vacuum truck, vacall/vactor, closed circuit television inspection equipment; high powered water pumps, jet pumps; screed machines and concrete finishing machines of a similar nature; vermeers.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$72.05

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$115.28

Engineer - Heavy Construction Maintenance Engineer II

On Base Mounted Tower Cranes

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$95.02

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$152.03

Engineer - Heavy Construction Maintenance Engineer III

On Generators, Light Towers

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$47.10

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$75.36

Engineer - Heavy Construction Maintenance Engineer IV

On Pumps and Mixers including mud sucking

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$48.35

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$77.36

Engineer - Heavy Construction Service Engineer

Gradalls: Concrete Pumps: Power Houses: Driving Truck Cranes: Driving and Operating Fuel and Grease Trucks.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$64.82

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$103.71

Engineer - Heavy Construction Service Mechanic

Shovels: Cranes: Draglines: Backhoes: Keystones: Pavers: Trenching Machines: Guniting Machines: Compressors (three (3) or more in Battery): Crawler Cranes- having a straight lattice boom with no attachment or luffing boom, no jib and no auxiliary attachment.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$44.45

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$71.12

Engineer - Steel Erection Maintenance Engineers

Derrick, Travelers, Tower, Crawler Tower and Climbing Cranes

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$68.93

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$110.29

Engineer - Steel Erection Oiler I

On a Truck Crane

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$64.43

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$103.09

Engineer - Steel Erection Oiler II

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

On a Crawler Crane

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$48.72

Supplemental Benefit Rate per Hour: \$42.06

Supplemental Note: \$76.72 on overtime

Shift Wage Rate: \$77.95

Overtime Description

On jobs of more than one shift, if the next shift employee fails to report for work through any cause over which the employer has no control, the employee on duty who works the next shift continues to work at the single time rate.

Overtime

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

Engineer - Building Work Maintenance Engineers I

Installing, repairing, maintaining, dismantling (of all equipment including: Steel Cutting and Bending Machines, Mechanical Heaters, Mine Hoists, Climbing Cranes, Tower Cranes, Linden Peine, Lorain, Liebherr, Mannes, or machines of a similar nature, Well Point Systems, Deep Well Pumps, Concrete Mixers with loading Device, Concrete Plants, Motor Generators when used for temporary power and lights), skid steer machines of a similar nature including bobcat.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$64.11

Supplemental Benefit Rate per Hour: \$41.15

Supplemental Note: \$74.90 on overtime

Engineer - Building Work Maintenance Engineers II

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

On Pumps, Generators, Mixers and Heaters

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$49.49

Supplemental Benefit Rate per Hour: \$41.15

Supplemental Note: \$74.90 on overtime

Engineer - Building Work Oilers I

All gasoline, electric, diesel or air operated Gradealls: Concrete Pumps, Overhead Cranes in Power Houses: Their duties shall be to assist the Engineer in oiling, greasing and repairing of all machines; Driving Truck Cranes: Driving and Operating Fuel and Grease Trucks, Cherrypickers (hydraulic cranes) over 70,000 GVW, and machines of a similar nature.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$60.89

Supplemental Benefit Rate per Hour: \$41.15

Supplemental Note: \$74.90 on overtime

Engineer - Building Work Oilers II

Oilers on Crawler Cranes, Backhoes, Trenching Machines, Guniting Machines, Compressors (three or more in Battery).

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$44.88

Supplemental Benefit Rate per Hour: \$41.15

Supplemental Note: \$74.90 on overtime

Overtime Description

On jobs of more than one shift, if an Employee fails to report for work through any cause over which the Employer has no control, the Employee on duty will continue to work at the rate of single time.

Overtime

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Shift Rates

When two (2) or more shifts are employed, single time will be paid for each shift.

(Local #15)

ENGINEER - CITY SURVEYOR AND CONSULTANT

Party Chief

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$41.98**

Supplemental Benefit Rate per Hour: **\$24.40**

Supplemental Note: Overtime Benefit Rate - \$29.35 per hour (time & one half) \$34.30 per hour (double time).

Instrument Person

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$34.32**

Supplemental Benefit Rate per Hour: **\$24.40**

Supplemental Note: Overtime Benefit Rate - \$29.35 per hour (time & one half) \$34.30 per hour (double time).

Rodperson

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$29.49**

Supplemental Benefit Rate per Hour: **\$24.40**

Supplemental Note: Overtime Benefit Rate - \$29.35 per hour (time & one half) \$34.30 per hour (double time).

Overtime Description

Time and one half the regular rate after an 8 hour day, Time and one half the regular rate for Saturday for the first eight hours worked, Double time the regular time rate for Saturday for work performed in excess of eight hours, Double time the regular rate for Sunday and Double time the regular rate for work on a holiday.

Paid Holidays

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

(Operating Engineer Local #15-D)

ENGINEER - FIELD (BUILDING CONSTRUCTION) (Construction of Building Projects, Concrete Superstructures, etc.)

Field Engineer - BC Party Chief

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$66.42**

Supplemental Benefit Rate per Hour: **\$37.16**

Supplemental Note: Overtime Benefit Rate - \$52.27 per hour (time & one half) \$67.37 per hour (double time).

Field Engineer - BC Instrument Person

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$51.37**

Supplemental Benefit Rate per Hour: **\$37.16**

Supplemental Note: Overtime Benefit Rate - \$52.27 per hour (time & one half) \$67.37 per hour (double time).

Field Engineer - BC Rodperson

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$32.84**

Supplemental Benefit Rate per Hour: **\$37.16**

Supplemental Note: Overtime Benefit Rate - \$52.27 per hour (time & one half) \$67.37 per hour (double time).

Overtime Description

Time and one half the regular rate after a 7 hour work and time and one half the regular rate for Saturday for the first seven hours worked, Double time the regular time rate for Saturday for work performed in excess of seven hours, Double time the regular rate for Sunday and Double time the regular rate for work on a holiday.

Paid Holidays

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

(Operating Engineer Local #15-D)

ENGINEER - FIELD (HEAVY CONSTRUCTION)
(Construction of Roads, Tunnels, Bridges, Sewers, Building Foundations,
Engineering Structures etc.)

Field Engineer - HC Party Chief

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$77.31

Supplemental Benefit Rate per Hour: \$39.64

Supplemental Note: Overtime benefit rate - \$55.86 per hour (time & one half), \$72.08 per hour (double time).

Field Engineer - HC Instrument Person

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$56.50

Supplemental Benefit Rate per Hour: \$39.64

Supplemental Note: Overtime benefit rate - \$55.86 per hour (time & one half), \$72.08 per hour (double time).

Field Engineer - HC Rodperson

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$47.23

Supplemental Benefit Rate per Hour: \$39.64

Supplemental Note: Overtime benefit rate - \$55.86 per hour (time & one half), \$72.08 per hour (double time).

Overtime Description

Time and one half the regular rate after an 8 hour day, Time and one half the regular rate for Saturday for the first eight hours worked, Double time the regular time rate for Saturday for work performed in excess of eight hours, Double time the regular rate for Sunday and Double time the regular rate for work on a holiday.

Paid Holidays

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

(Operating Engineer Local #15-D)

ENGINEER - FIELD (STEEL ERECTION)

Field Engineer - Steel Erection Party Chief

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$71.98**

Supplemental Benefit Rate per Hour: **\$39.14**

Supplemental Note: Overtime benefit rate - \$55.11 per hour (time & one half), \$71.08 per hour (double time).

Field Engineer - Steel Erection Instrument Person

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$55.85**

Supplemental Benefit Rate per Hour: **\$39.14**

Supplemental Note: Overtime benefit rate - \$55.11 per hour (time & one half), \$71.08 per hour (double time).

Field Engineer - Steel Erection Rodperson

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$36.99**

Supplemental Benefit Rate per Hour: **\$39.14**

Supplemental Note: Overtime benefit rate - \$55.11 per hour (time & one half), \$71.08 per hour (double time).

Overtime Description

Time and one half the regular rate for Saturday for the first eight hours worked.

Double time the regular rate for Saturday for work performed in excess of eight hours.

Overtime

Time and one half the regular rate after an 8 hour day.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

(Operating Engineer Local #15-D)

ENGINEER - OPERATING

Operating Engineer - Road & Heavy Construction I

Back Filling Machines, Cranes, Mucking Machines and Dual Drum Paver.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$86.05**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$137.68**

Operating Engineer - Road & Heavy Construction II

Backhoes, Power Shovels, Hydraulic Clam Shells, Steel Erection, Moles and machines of a similar nature.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$89.05**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$142.48**

Operating Engineer - Road & Heavy Construction III

Mine Hoists (Cranes, etc. when used as Mine Hoists)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$91.89**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$147.02**

Operating Engineer - Road & Heavy Construction IV

Gradealls, Keystones, Cranes on land or water (with digging buckets), Bridge Cranes, Vermeer Cutter and machines of a similar nature, Trenching Machines.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$89.70**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Shift Wage Rate: **\$143.52**

Operating Engineer - Road & Heavy Construction V

Pile Drivers & Rigs (working alongside Dock Builder foreperson): Derrick Boats, Tunnel Shovels.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$87.94**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$140.70**

Operating Engineer - Road & Heavy Construction VI

Mixers (Concrete with loading attachment), Concrete Pavers, Cableways, Land Derricks, Power Houses (Low Air Pressure Units).

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$83.59**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$133.74**

Operating Engineer - Road & Heavy Construction VII

Barrier Movers, Barrier Transport and Machines of a Similar Nature.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$67.71**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$108.34**

Operating Engineer - Road & Heavy Construction VIII

Utility Compressors

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$52.77**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: **\$66.26**

Operating Engineer - Road & Heavy Construction IX

Horizontal Boring Rig

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$79.56**

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$127.30

Operating Engineer - Road & Heavy Construction X

Elevators (manually operated as personnel hoist).

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$73.21
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$117.14

Operating Engineer - Road & Heavy Construction XI

Compressors (Portable 3 or more in battery), Driving of Truck Mounted Compressors, Well-point Pumps, Tugger Machines Well Point Pumps, Churn Drill.

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$57.06
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$91.30

Operating Engineer - Road & Heavy Construction XII

All Drills and Machines of a similar nature.

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$84.48
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$135.17

Operating Engineer - Road & Heavy Construction XIII

Concrete Pumps, Concrete Plant, Stone Crushers, Double Drum Hoist, Power Houses (other than above).

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$81.85
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$130.96

Operating Engineer - Road & Heavy Construction XIV

Concrete Mixer

Effective Period: 7/1/2021 - 6/30/2022

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Wage Rate per Hour: \$78.28
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$125.25

Operating Engineer - Road & Heavy Construction XV

Compressors (Portable Single or two in Battery, not over 100 feet apart), Pumps (River Cofferdam) and Welding Machines, Push Button Machines, All Engines Irrespective of Power (Power-Pac) used to drive auxiliary equipment, Air, Hydraulic, etc.

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$53.11
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$84.98

Operating Engineer - Road & Heavy Construction XVI

Concrete Breaking Machines, Hoists (Single Drum), Load Masters, Locomotives (over ten tons) and Dinkies over ten tons, Hydraulic Crane-Second Engineer.

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$74.81
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$119.70

Operating Engineer - Road & Heavy Construction XVII

On-Site concrete plant engineer, On-site Asphalt Plant Engineer, and Vibratory console.

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$75.36
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$120.58

Operating Engineer - Road & Heavy Construction XVIII

Tower Crane

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$107.75
Supplemental Benefit Rate per Hour: \$34.55
Supplemental Note: \$63.15 overtime hours
Shift Wage Rate: \$172.40

Operating Engineer - Paving I

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Asphalt Spreaders, Autogrades (C.M.I.), Roto/Mil

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$83.59

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$133.74

Operating Engineer - Paving II

Asphalt Roller

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$81.47

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$130.35

Operating Engineer - Paving III

Asphalt Plants

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$69.04

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$110.46

Operating Engineer - Concrete I

Cranes

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$89.31

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Concrete II

Compressors

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$53.51

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Concrete III

Micro-traps (Negative Air Machines), Vac-All Remediation System.

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Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$71.55

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Steel Erection I

Three Drum Derricks

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$92.36

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$147.78

Operating Engineer - Steel Erection II

Cranes, 2 Drum Derricks, Hydraulic Cranes, Fork Lifts and Boom Trucks.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$88.77

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$142.03

Operating Engineer - Steel Erection III

Compressors, Welding Machines.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$53.07

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$84.91

Operating Engineer - Steel Erection IV

Compressors - Not Combined with Welding Machine. (Public Works Only)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$50.56

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Shift Wage Rate: \$80.90

Operating Engineer - Building Work I

Forklifts, Plaster (Platform machine), Plaster Bucket, Concrete Pump and all other equipment used for hoisting material.

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Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$70.94

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Building Work II

Compressors, Welding Machines (Cutting Concrete-Tank Work), Paint Spraying, Sandblasting, Pumps (with the exclusion of Concrete Pumps), All Engines irrespective of Power (Power-Pac) used to drive Auxiliary Equipment, Air, Hydraulic, Jacking System, etc.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$53.12

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Building Work III

Double Drum

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$84.16

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Building Work IV

Stone Derrick, Cranes, Hydraulic Cranes Boom Trucks.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$89.10

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Building Work V

Dismantling and Erection of Cranes, Relief Engineer.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$78.81

Supplemental Benefit Rate per Hour: \$34.55

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Building Work VI

4 Pole Hoist, Single Drum Hoists.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$77.98

Supplemental Benefit Rate per Hour: \$34.55

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Supplemental Note: \$63.15 overtime hours

Operating Engineer - Building Work VII

Rack & Pinion and House Cars

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$62.01**

Supplemental Benefit Rate per Hour: **\$34.55**

Supplemental Note: \$63.15 overtime hours

For New House Car projects Wage Rate per Hour **\$49.50**

For New House Car projects: Supplemental Benefit overtime hours: **\$48.85**

Overtime Description

On jobs of more than one shift, if an Employee fails to report for work through any cause over which the Employer has no control, the Employee on duty will continue to work at the rate of single time.

For House Cars and Rack & Pinion only: Overtime paid at time and one-half for all hours in excess of eight hours in a day, Saturday, Sunday and Holidays worked.

Overtime

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

Shift Rates

When two (2) or more shifts are employed, single time will be paid for each shift.

For Steel Erection Only: Shifts may be worked at the single time rate at other than the regular working hours (8:00 A.M. to 4:30 P.M.) on the following work ONLY: Heavy construction jobs on work below the street level, over railroad tracks and on building jobs.

(Operating Engineer Local #14)

FLOOR COVERER

(Interior vinyl composition tile, sheath vinyl linoleum and wood parquet tile including site preparation and synthetic turf not including site preparation)

Floor Coverer

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$54.75**

Supplemental Benefit Rate per Hour: **\$47.13**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Day after Thanksgiving

Day before Christmas

Christmas Day

Day before New Year's Day

Shift Rates

Two shifts may be utilized with the first shift working 8 a.m. to the end of the shift at straight time rate of pay. The wage rate for the second shift consisting of 7 hours shall be paid at 114.29% of straight time wage rate. The wage rate for the second shift consisting of 8 hours shall be paid 112.5% of the straight time wage rate. When it is not possible to conduct alteration or repair work during regular working hours in a building occupied by tenants, the rule for the second shift will apply.

(Carpenters District Council)

GLAZIER

(New Construction, Remodeling, and Alteration)

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Glazier

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.55**

Supplemental Benefit Rate per Hour: **\$47.74**

Supplemental Note: Supplemental Benefit Overtime Rate: \$71.62

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

Shift Rates

Shifts shall be any 8 consecutive hours after the normal working day for which the Glazier shall receive 9 hours pay for 8 hours worked.

(Local #1281)

GLAZIER - REPAIR & MAINTENANCE

(For the Installation of Glass - All repair and maintenance work on a particular building.)

Craft Jurisdiction for repair, maintenance and fabrication

Plate glass replacement, Residential glass replacement, Residential mirrors and shower doors, Storm windows and storm doors, Residential replacement windows, Herculite door repairs, Door closer repairs, Retrofit apartment house (non-commercial buildings), Glass tinting.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.40**

Supplemental Benefit Rate per Hour: **\$24.09**

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

Time and one half the regular hourly rate after 40 straight time hours in any work week.

Paid Holidays

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

(Local #1281)

HAZARDOUS MATERIAL HANDLER

(Removal, abatement, encapsulation or decontamination of asbestos, lead, mold, or other toxic or hazardous waste/materials)

Handler

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$38.05**

Supplemental Benefit Rate per Hour: **\$17.75**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Sunday.

Time and one half the regular hourly rate after 40 straight time hours in any work week.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Easter

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Paid Holidays

None

(Local #78 and Local #12A)

HEAT AND FROST INSULATOR

Heat & Frost Insulator

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$62.21

Supplemental Benefit Rate per Hour: \$41.91

Overtime Description

Double time shall be paid for supplemental benefits during overtime work.
8th hour paid at time and one half.

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Triple time the regular rate for work on the following holiday(s).

Labor Day

Paid Holidays

None

Shift Rates

The first shift shall work seven hours at the regular straight time rate. The second and third shift shall work seven hours the regular straight time hourly rate plus a fourteen percent wage and benefit premium. There must be a first shift to work the second shift, and a second shift to work the third shift. Off-hour jobs in occupied

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buildings may be worked on weekdays with an increment of one-dollar (\$1.00) per hour and eight (8) hours pay for seven (7) hours worked.

(Local #12) (BCA)

HOUSE WRECKER (TOTAL DEMOLITION)

House Wrecker - Tier A

On all work sites the first, second, eleventh and every third House Wrecker thereafter will be Tier A House Wreckers (i.e. 1st, 2nd, 11th, 14th etc). Other House Wreckers may be Tier B House Wreckers.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$37.63**

Supplemental Benefit Rate per Hour: **\$30.37**

House Wrecker - Tier B

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.86**

Supplemental Benefit Rate per Hour: **\$22.78**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

(Mason Tenders District Council)

IRON WORKER - ORNAMENTAL

Iron Worker - Ornamental

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$46.15

Supplemental Benefit Rate per Hour: \$59.62

Supplemental Note: Supplemental benefits are to be paid at the applicable overtime rate when overtime is in effect.

Overtime Description

Time and one half the regular rate after a 7 hour day for a maximum of two hours on any regular work day (the 8th and 9th hour) and double time shall be paid for all work on a regular work day thereafter, time and one half the regular rate for Saturday for the first seven hours of work and double time shall be paid for all work on a Saturday thereafter.

Overtime

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

When two or three shifts are employed on a job, Monday through Friday, the second and third shift are paid eight and one half (8 ½) hours at the straight time rate for seven (7) hours of work, and ten (10) hours at the straight time rate for eight (8) hours of work. When it is not possible to conduct alteration or repair work during regular working hours in a building occupied by tenants, eight hours will be paid at straight time rate for seven hours of work, and all overtime shall be paid at time and one-half the regular straight time rates but on Sundays and Holidays, time and one-half the regular straight time rate shall be paid for all work up to seven (7) hours and double time shall be paid for all work thereafter.

(Local #580)

IRON WORKER - STRUCTURAL

Iron Worker - Structural

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$54.20

Supplemental Benefit Rate per Hour: \$82.81

Supplemental Note: Supplemental benefits are to be paid at the applicable overtime rate when overtime is in effect.

Overtime Description

Monday through Friday- the first eight hours are paid at straight time, the 9th and 10th hours are paid at time and one-half the regular rate, all additional weekday overtime is paid at double the regular rate. Saturdays- the first eight hours are paid at time and one-half the regular rate, double time thereafter. Sunday-all shifts are paid at double time. Four Days a week at Ten (10) hours straight time is allowed.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

Shift Rates

Monday through Friday - First Shift: First eight hours are paid at straight time, the 9th & 10th hours are paid at time and a half, double time paid thereafter. Second and third Shifts: First eight hours are paid at time and one-half, double time thereafter. Saturdays: All shifts, first eight hours paid at time and one-half, double time thereafter: Sunday all shifts are paid at double time.

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday.

(Local #40 & #361)

LABORER

(Foundation, Concrete, Excavating, Street Pipe Layer and Common)

Laborer

Excavation and foundation work for buildings, heavy construction, engineering work, and hazardous waste removal in connection with the above work. Landscaping tasks in connection with heavy construction work, engineering work and building projects. Projects include, but are not limited to pollution plants, sewers, parks, subways, bridges, highways, etc.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.50**

Supplemental Benefit Rate per Hour: **\$48.63**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Thanksgiving Day

Christmas Day

Paid Holidays

Labor Day

Thanksgiving Day

Shift Rates

When two shifts are employed, single time rate shall be paid for each shift. When three shifts are found necessary, each shift shall work seven and one half hours (7 ½), but shall be paid for eight (8) hours of labor, and be permitted one half hour for lunch.

(Local #731)

LANDSCAPING

(Landscaping tasks, such as tree pruning, tree removing and spraying in connection with Green Infrastructure maintenance and the planting of street

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

trees and trees in City parks, but not when such activities are performed as part of construction or reconstruction projects.)

Landscaper (Year 6 and above)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$33.90**

Supplemental Benefit Rate per Hour: **\$17.05**

Landscaper (Year 3 - 5)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$32.81**

Supplemental Benefit Rate per Hour: **\$17.05**

Landscaper (up to 3 years)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$30.06**

Supplemental Benefit Rate per Hour: **\$17.05**

Groundperson

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$30.06**

Supplemental Benefit Rate per Hour: **\$17.05**

Tree Remover / Pruner

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$39.42**

Supplemental Benefit Rate per Hour: **\$17.05**

Landscaper Sprayer (Pesticide Applicator)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$28.41**

Supplemental Benefit Rate per Hour: **\$17.05**

Watering - Plant Maintainer

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$22.88**

Supplemental Benefit Rate per Hour: **\$17.05**

Overtime Description

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For all overtime work performed, supplemental benefits shall include an additional seventy-five (\$0.75) cents per hour.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular rate for work on a holiday plus the day's pay.

Paid Holidays

New Year's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Shift Rates

Work performed on a 4pm to 12am shift has a 15% differential. Work performed on a 12am to 8am shift has a 20% differential.

(Local #175)

MARBLE MECHANIC

Marble Setter

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.73**

Supplemental Benefit Rate per Hour: **\$41.76**

Marble Finisher

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$44.32**

Supplemental Benefit Rate per Hour: **\$38.96**

Marble Polisher

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$42.91**

Supplemental Benefit Rate per Hour: **\$31.61**

Marble Maintenance Finisher

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Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.73**

Supplemental Benefit Rate per Hour: **\$13.59**

Overtime Description

Supplemental Benefit contributions are to be made at the applicable overtime rates.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

(Local #7)

MASON TENDER

Mason Tender

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$39.20**

Supplemental Benefit Rate per Hour: **\$31.24**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

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Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays

None

Shift Rates

The employer may work two (2) shifts with the first shift at the straight time wage rate and the second shift receiving eight (8) hours paid for seven (7) hours work at the straight time wage rate. When it is not possible to conduct alteration work during regular working hours in a building occupied by tenants, the rule for the second shift will apply.

(Local #79)

MASON TENDER (INTERIOR DEMOLITION WORKER)

Mason Tender Tier A

Tier A Interior Demolition Worker performs all burning, chopping, and other technically skilled tasks related to interior demolition work.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$37.29**

Supplemental Benefit Rate per Hour: **\$25.75**

Mason Tender Tier B

Tier B Interior Demolition Worker performs manual work and work incidental to demolition work, such as loading and carting of debris from the work site to an area where it can be loaded in to bins/trucks for removal. Also performs clean-up of the site when demolition is completed.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.48**

Supplemental Benefit Rate per Hour: **\$20.07**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Sunday.

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CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays

None

(Local #79)

METALLIC LATHER

Metallic Lather

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.40**

Supplemental Benefit Rate per Hour: **\$49.80**

Supplemental Note: For time and one half overtime - \$61.55 For double overtime - \$77.10

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Thanksgiving Day
Christmas Day

Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

Shift Rates

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Off-shift work outside of normal working hours shall receive straight time rate plus \$12 per hour for the first eight (8) hours.

(Local #46)

MILLWRIGHT

Millwright

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$57.00**

Supplemental Benefit Rate per Hour: **\$54.76**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Veteran's Day

Thanksgiving Day

Christmas Day

Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

Shift Rates

Second and third shifts receives the straight time rate of pay plus fifteen (15%) percent allowing for one half hour for a meal. There must be a first shift to work a second and third shift. All additional hours worked shall be paid at the time and one-half rate of pay plus fifteen (15%) percent for weekday hours.

(Local #740)

MOSAIC MECHANIC

Mosaic Mechanic - Mosaic & Terrazzo Mechanic

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$51.66

Supplemental Benefit Rate per Hour: \$43.67

Mosaic Mechanic - Mosaic & Terrazzo Finisher

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$50.06

Supplemental Benefit Rate per Hour: \$43.67

Mosaic Mechanic - Machine Operator Grinder

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$50.06

Supplemental Benefit Rate per Hour: \$43.67

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Washington's Birthday

Good Friday

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

(Local #7)

PAINTER

Painter - Brush & Roller

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.00**

Supplemental Benefit Rate per Hour: **\$36.70**

Supplemental Note: \$43.79 on overtime

Spray & Scaffold / Decorative / Sandblast

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.00**

Supplemental Benefit Rate per Hour: **\$36.70**

Supplemental Note: \$43.79 on overtime

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

(District Council of Painters #9)

PAINTER - LINE STRIPING (ROADWAY)

Striping - Machine Operator

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$37.00**

Supplemental Benefit Rate per Hour: **\$14.37**

Supplemental Note: Overtime Supplemental Benefit rate - \$16.25

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Lineperson (Thermoplastic)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$41.00**

Supplemental Benefit Rate per Hour: **\$14.37**

Supplemental Note: Overtime Supplemental Benefit rate - \$16.25

Striping Assistant & Traffic Safety

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$36.75**

Supplemental Benefit Rate per Hour: **\$14.37**

Supplemental Note: Overtime Supplemental Benefit rate - \$16.25

Overtime Description

Time and one half the regular rate for all work in excess of ten (10) straight time hours per day and in excess of forty (40) straight time hours per week.

For Paid Holidays: Employees will only receive Holiday Pay for holidays not worked if said employee worked both the regularly scheduled workday before and after the holiday.

Overtime

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Vacation

Employees with one to two years service shall accrue vacation based on hours worked: 250 hours worked - 1 day vacation; 500 hours worked - 2 days vacation; 750 hours worked - 3 days vacation; 900 hours worked - 4 days vacation; 1,000 hours worked - 5 days vacation. Employees with two to five years service receive two weeks vacation. Employees with five to twenty years service receive three weeks vacation. Employees with twenty to twenty-five years service receive four weeks vacation. Employees with 25 or more years service receive five weeks vacation.

(Local #1010)

PAINTER - METAL POLISHER

METAL POLISHER

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$31.88**

Supplemental Benefit Rate per Hour: **\$10.29**

METAL POLISHER - NEW CONSTRUCTION

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$32.83**

Supplemental Benefit Rate per Hour: **\$10.29**

METAL POLISHER - SCAFFOLD OVER 34 FEET

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$35.38**

Supplemental Benefit Rate per Hour: **\$10.29**

ASSISTANT METAL POLISHER

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$24.66**

Supplemental Benefit Rate per Hour: **\$9.81**

ASSISTANT METAL POLISHER - NEW CONSTRUCTION

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$25.41**

Supplemental Benefit Rate per Hour: **\$9.81**

ASSISTANT METAL POLISHER - SCAFFOLD OVER 34 FEET

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$27.16**

Supplemental Benefit Rate per Hour: **\$9.81**

Overtime Description

All work performed on Saturdays shall be paid at time-in-a half. The exception being; for suspended scaffold work and work deemed as a construction project; an eight (8) hour shift lost during the week due to circumstances beyond the control of the employer, up to a maximum of eight (8) hours per week, may be worked on Saturday at the straight time rate.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

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Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Triple time the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Shift Rates

Four Days a week at Ten (10) hours straight a day.

Local 8A-28A

PAINTER - SIGN

Sign Painter

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$44.32**

Supplemental Benefit Rate per Hour: **\$21.70**

Assistant Sign Painter

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$37.66**

Supplemental Benefit Rate per Hour: **\$19.93**

Overtime Description

If any employee is required to work on any of the paid holidays then the employee shall receive double time rate of wages as well as the holiday pay for that day.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Paid Holidays

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Columbus Day
Election Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

Vacation

At least 1 year of employment.....1 week
2 years or more of employment.....2 weeks
8 years or more of employment.....3 weeks

(Local #8A-28A)

PAINTER - STRUCTURAL STEEL

Painters on Structural Steel

Effective Period: 7/1/2021 - 9/30/2021

Wage Rate per Hour: **\$51.50**

Supplemental Benefit Rate per Hour: **\$48.28**

Effective Period: 10/1/2021 - 6/30/2022

Wage Rate per Hour: **\$53.00**

Supplemental Benefit Rate per Hour: **\$49.83**

Painter - Power Tool

Effective Period: 7/1/2021 - 9/30/2021

Wage Rate per Hour: **\$57.50**

Supplemental Benefit Rate per Hour: **\$48.28**

Overtime Wage Rate: \$6.00 above the "Painters on Structural Steel" overtime rate.

Effective Period: 10/1/2021 - 6/30/2022

Wage Rate per Hour: **\$59.50**

Supplemental Benefit Rate per Hour: **\$49.83**

Overtime Wage Rate: \$6.50 above the "Painters on Structural Steel" overtime rate.

Overtime Description

Supplemental Benefits shall be paid for each hour worked, up to forty (40) hours per week for the period of May 1st to November 15th or up to fifty (50) hours per week for the period of November 16th to April 30th.

Overtime

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Time and one half the regular rate after a 7 hour day.
Time and one half the regular rate for Saturday.
Time and one half the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays

None

Shift Rates

Second shift is paid at regular hourly wage rates plus a ten percent (10%) differential. There must be a first shift in order to work a second shift.

(Local #806)

PAPERHANGER

Paperhanger

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.87**

Supplemental Benefit Rate per Hour: **\$37.49**

Supplemental Note: Supplemental benefits are to be paid at the appropriate straight time and overtime rate.

Overtime

Time and one half the regular rate after a 7 hour day.
Time and one half the regular rate for Saturday.
Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Paid Holidays

None

Shift Rates

Evening shift - 4:30 P.M. to 12:00 Midnight (regular rate of pay); any work performed before 7:00 A.M. shall be at time and one half the regular base rate of pay.

(District Council of Painters #9)

PAVER AND ROADBUILDER

Paver & Roadbuilder - Formsetter

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$47.85**

Supplemental Benefit Rate per Hour: **\$48.51**

Supplemental Note: For time and one half overtime - \$52.64 For double overtime - \$56.76

Paver & Roadbuilder - Laborer

Paving and road construction work, regardless of material used, including but not limited to preparation of job sites, removal of old surfaces, asphalt and/or concrete, by whatever method, including but not limited to milling; laying of concrete; laying of asphalt for temporary, patchwork, and utility paving (but not production paving); site preparation and incidental work for installation of rubberized materials and similar surfaces; installation and repair of temporary construction fencing; slurry/seal coating, paving stones, maintenance of safety surfaces; play equipment installation, and other related work.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.98**

Supplemental Benefit Rate per Hour: **\$48.51**

Supplemental Note: For time and one half overtime - \$52.64 For double overtime - \$56.76

Production Paver & Roadbuilder - Screed Person

(Production paving is asphalt paving when using a paving machine or on a project where a paving machine is traditionally used)

Adjustment of paving machinery on production paving jobs.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$48.45**

Supplemental Benefit Rate per Hour: **\$48.51**

Supplemental Note: For time and one half overtime - \$52.64 For double overtime - \$56.76

Production Paver & Roadbuilder - Raker

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$47.85**

Supplemental Benefit Rate per Hour: **\$48.51**

Supplemental Note: For time and one half overtime - \$52.64 For double overtime - \$56.76

Production Paver & Roadbuilder - Shoveler

General laborer (except removal of surfaces - see Paver and Roadbuilder-Laborer) including but not limited to tamper, AC paint and liquid tar work.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.98**

Supplemental Benefit Rate per Hour: **\$48.51**

Supplemental Note: For time and one half overtime - \$52.64 For double overtime - \$56.76

Overtime Description

If an employee works New Year's Day or Christmas Day, they receive the single time rate plus 25%.

For Paid Holidays: Holiday pay for all holidays shall be prorated based two hours per day for each day worked in the holiday week, not to exceed 8 hours of holiday pay.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

Memorial Day

Independence Day

Labor Day

Columbus Day

Thanksgiving Day

Paid Holidays

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Shift Rates

When two shifts are employed, the work period for each shift shall be a continuous eight (8) hours. When three shifts are employed, each shift will work seven and one half (7 ½) hours but will be paid for eight (8) hours at the straight time rate since only one half (1/2) hour is allowed for meal time.

When two or more shifts are employed, single time will be paid for each shift.

Night Work - On night work, the first eight (8) hours of work will be paid for at the single time rate, except that production paving work shall be paid at 10% over the single time rate for the screed person, rakers and shovelers directly involved only. This differential is to be paid when there is only one shift and the shift works at night. All other workers will be exempt. Hours worked over eight (8) hours during said shift shall be paid for at the time and one-half rate.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

(Local #1010)

PLASTERER

Plasterer

Effective Period: 7/1/2021 - 7/31/2021

Wage Rate per Hour: **\$45.73**

Supplemental Benefit Rate per Hour: **\$30.37**

Effective Period: 8/1/2021 - 6/30/2022

Wage Rate per Hour: **\$46.00**

Supplemental Benefit Rate per Hour: **\$28.20**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

When it is not possible to conduct work during regular working hours (between 6:30am and 4:30pm), a shift differential shall be paid at the regular hourly rate plus a twelve percent (12%) per hour differential. Workers on shift work shall be allowed a paid one-half hour meal break.

(Local #262)

PLASTERER - TENDER

Plasterer - Tender

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$39.20

Supplemental Benefit Rate per Hour: \$31.24

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Washington's Birthday

Memorial Day

Independence Day

Labor Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

When work commences outside regular work hours, workers receive an hour additional (differential) wage and supplement payment. Eight hours pay for seven hours work or nine hours pay for eight hours work.

(Mason Tenders District Council)

PLUMBER

Plumber

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$71.25

Supplemental Benefit Rate per Hour: \$39.95

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

Plumber - Temporary Services

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Temporary Services - When there are no Plumbers on the job site, there may be three shifts designed to cover the entire twenty-four hour period, including weekends if necessary, at the following rate straight time.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$57.08**

Supplemental Benefit Rate per Hour: **\$31.88**

Overtime

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Shift Rates

30% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shifts Monday to Friday.

50% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shift work performed on weekends. For shift work on holidays, double time wages and fringe benefits shall be paid.

(Plumbers Local #1)

PLUMBER (MECHANICAL EQUIPMENT AND SERVICE)

(Mechanical Equipment and Service work shall include any repair and/or replacement of the present plumbing system.)

Plumber

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$44.37**

Supplemental Benefit Rate per Hour: **\$18.31**

Overtime

Time and one half the regular rate after an 8 hour day.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

(Plumbers Local # 1)

PLUMBER (RESIDENTIAL RATES FOR 1, 2 AND 3 FAMILY HOME CONSTRUCTION)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$49.47

Supplemental Benefit Rate per Hour: \$28.68

Overtime

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Shift Rates

30% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shifts Monday to Friday.
50% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shift work performed on weekends. For shift work on holidays, double time wages and fringe benefits shall be paid.

(Plumbers Local #1)

PLUMBER: PUMP & TANK Oil Trades (Installation and Maintenance)

Plumber - Pump & Tank

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$69.33

Supplemental Benefit Rate per Hour: \$27.98

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

Shift Rates

All work outside the regular workday (8:00 A.M. to 3:30 P.M.) is to be paid at time and one half the regular hourly rate

(Plumbers Local #1)

POINTER, WATERPROOFER, CAULKER, SANDBLASTER, STEAMBLASTER

(Exterior Building Renovation)

Journey person

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.77**

Supplemental Benefit Rate per Hour: **\$29.91**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

All work outside the regular work day (an eight hour workday between the hours of 6:00 A.M. and 4:00 P.M.) is to be paid at time and one half the regular rate. However, the employer may establish one (1) or two (2) shifts starting at or after 4:00 P.M. to be paid at the regular hourly rate plus a 10% differential.

(Bricklayer District Council)

ROOFER

Roofer

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$44.25**

Supplemental Benefit Rate per Hour: **\$34.81**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

Second shift - Regular hourly rate plus a 10% differential. Third shift - Regular hourly rate plus a 15% differential.

There must be a first shift to work the second shift, and a second shift to work the third shift. All other work outside the regular work day (an eight hour workday between the hours of 5:00 A.M. and 4:00 P.M.) is to be paid at time and one half the regular rate.

(Local #8)

SHEET METAL WORKER

Sheet Metal Worker

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$51.36**

Supplemental Benefit Rate per Hour: **\$53.34**

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

Sheet Metal Worker - Fan Maintenance

(The temporary operation of fans or blowers in new or existing buildings for heating and/or ventilation, and/or air conditioning prior to the completion of the project.)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$41.09**

Supplemental Benefit Rate per Hour: **\$53.34**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Sheet Metal Worker - Duct Cleaner

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$18.49**

Supplemental Benefit Rate per Hour: **\$11.94**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

Shift Rates

Work that can only be performed outside regular working hours (eight hours of work between 7:30 A.M. and 3:30 P.M.) - First shift (work between 3:30 P.M. and 11:30 P.M.) - 10% differential above the established hourly rate.

Second shift (work between 11:30 P.M. and 7:30 A.M.) - 15% differential above the established hourly rate.

For Fan Maintenance: On all full shifts of fan maintenance work the straight time hourly rate of pay will be paid for each shift, including nights, Saturdays, Sundays, and holidays.

(Local #28)

**SHEET METAL WORKER - SPECIALTY
(Decking & Siding)**

Sheet Metal Specialty Worker

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

The first worker to perform this work must be paid at the rate of the Sheet Metal Worker. The second and third workers shall be paid the Specialty Worker Rate. The ratio of One Sheet Metal Worker, then Two Specialty Workers shall be utilized thereafter.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$48.18**

Supplemental Benefit Rate per Hour: **\$26.87**

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

(Local #28)

SHIPYARD WORKER

Shipyard Mechanic - First Class

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$28.50**

Supplemental Benefit Rate per Hour: **\$3.95**

Shipyard Mechanic - Second Class

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$19.07**

Supplemental Benefit Rate per Hour: **\$3.59**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Shipyard Laborer - First Class

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$23.40**

Supplemental Benefit Rate per Hour: **\$3.75**

Shipyard Laborer - Second Class

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$17.38**

Supplemental Benefit Rate per Hour: **\$3.52**

Shipyard Dockhand - First Class

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$21.57**

Supplemental Benefit Rate per Hour: **\$3.68**

Shipyard Dockhand - Second Class

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$17.28**

Supplemental Benefit Rate per Hour: **\$3.52**

Overtime Description

Work performed on holiday is paid double time the regular hourly wage rate plus holiday pay.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular hourly rate after 40 straight time hours in any work week.

Paid Holidays

New Year's Day

Martin Luther King Jr. Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Based on Survey Data

SIGN ERECTOR

(Sheet Metal, Plastic, Electric, and Neon)

Sign Erector

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$52.29**

Supplemental Benefit Rate per Hour: **\$57.49**

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

Paid Holidays

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Shift Rates

Time and one half the regular hourly rate is to be paid for all hours worked outside the regular workday either (7:00 A.M. through 2:30 P.M.) or (8:00 A.M. through 3:30 P.M.)

(Local #137)

STEAMFITTER

Steamfitter

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$59.05**

Supplemental Benefit Rate per Hour: **\$58.14**

Supplemental Note: Overtime supplemental benefit rate: \$115.54

Steamfitter -Temporary Services

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$44.88**

Supplemental Benefit Rate per Hour: **\$47.31**

Overtime Description

Double time after a 7 hour day except for Temporary Services.

Overtime

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Paid Holidays

None

Shift Rates

May be performed outside of the regular workday except Saturday, Sunday and Holidays. When shift work is performed the wage rate for regular time worked is a 15% percent premium on wage and 15% percent premium on supplemental benefits.

Local 638

STEAMFITTER - REFRIGERATION AND AIR CONDITIONER (Maintenance and Installation Service Person)

Refrigeration and Air Conditioner Mechanic

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$42.85**

Supplemental Benefit Rate per Hour: **\$19.46**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Independence Day

Labor Day

Veteran's Day

Thanksgiving Day

Christmas Day

Double time and one half the regular rate for work on the following holiday(s).

Martin Luther King Jr. Day

President's Day

Memorial Day

Columbus Day

Paid Holidays

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

(Local #638-B)

STONE MASON - SETTER

Stone Mason - Setter

(Assisted by Derrickperson and Rigger)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.43**

Supplemental Benefit Rate per Hour: **\$48.52**

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
Washington's Birthday
Good Friday
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

Shift Rates

For all work outside the regular workday (8:00 A.M. to 3:30 P.M. Monday through Friday), the pay shall be straight time plus a ten percent (10%) differential.

(Bricklayers District Council)

TAPER

Drywall Taper

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$48.47**

Supplemental Benefit Rate per Hour: **\$29.06**

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day
Martin Luther King Jr. Day
President's Day
Good Friday
Memorial Day
Independence Day
Labor Day
Columbus Day
Thanksgiving Day
Christmas Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Paid Holidays

Any worker who reports to work on Christmas Eve or New Year's Eve pursuant to his employer's instruction shall be entitled to three (3) hours afternoon pay without working.

(Local #1974)

TELECOMMUNICATION WORKER

(Install/maintain/repair telecommunications cables carrying data, video, and/or voice except for installation on building construction/alteration/renovation projects.)

Telecommunication Worker

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$47.03**

Supplemental Benefit Rate per Hour: **\$23.15**

Supplemental Note: The above rate applies for Manhattan, Bronx, Brooklyn, Queens. \$22.84 for Staten Island only.

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Lincoln's Birthday

Washington's Birthday

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Veteran's Day

Thanksgiving Day

Christmas Day

Paid Holidays

New Year's Day

Lincoln's Birthday

Washington's Birthday

Memorial Day

Independence Day

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Labor Day
Columbus Day
Election Day
Veteran's Day
Thanksgiving Day
Christmas Day

Employees have the option of observing either Martin Luther King's Birthday or the day after Thanksgiving instead of Lincoln's Birthday

Shift Rates

For any workday that starts before 8A.M. or ends after 6P.M. there is a 10% differential for the applicable worker's hourly rate.

Vacation

After 6 months.....one week.
After 12 months but less than 7 years.....two weeks.
After 7 or more but less than 15 years.....three weeks.
After 15 years or more but less than 25 years.....four weeks.

(C.W.A.)

TILE FINISHER

Tile Finisher

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$43.71**

Supplemental Benefit Rate per Hour: **\$35.10**

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day
President's Day
Good Friday
Memorial Day
Independence Day
Labor Day
Columbus Day
Veteran's Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Paid Holidays

None

Shift Rates

Off shift work day (work performed outside the regular 8:00 A.M. to 3:30 P.M. workday): shift differential of one and one quarter (1¼) times the regular straight time rate of pay for the seven hours of actual off-shift work.

(Local #7)

TILE LAYER - SETTER

Tile Layer - Setter

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.42**

Supplemental Benefit Rate per Hour: **\$39.75**

Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Shift Rates

Off shift work day (work performed outside the regular 8:00 A.M. to 3:30 P.M. workday): shift differential of one and one quarter (1¼) times the regular straight time rate of pay for the seven hours of actual off-shift work.

(Local #7)

TIMBERPERSON

Timberperson

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$52.50**

Supplemental Benefit Rate per Hour: **\$52.94**

Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

Paid Holidays

None

Shift Rates

Off shift work commencing between 5:00 P.M. and 11:00 P.M. shall work eight and one half hours allowing for one half hour for lunch. The wage rate shall be 113% of the straight time hourly wage rate. Benefits for off-shift work shall be paid at the straight time rate.

(Local #1536)

TUNNEL WORKER

Blasters, Mucking Machine Operators (Compressed Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$68.58**

Supplemental Benefit Rate per Hour: **\$60.19**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Tunnel Workers (Compressed Air Rates)

Includes shield driven liner plate portions or solidification portions work (8 hour shift) during excavation phase.

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$66.14**

Supplemental Benefit Rate per Hour: **\$58.29**

Top Nipper (Compressed Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$65.04**

Supplemental Benefit Rate per Hour: **\$57.14**

Outside Lock Tender, Outside Gauge Tender, Muck Lock Tender (Compressed Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$63.74**

Supplemental Benefit Rate per Hour: **\$56.20**

Bottom Bell & Top Bell Signal Person: Shaft Person (Compressed Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$63.74**

Supplemental Benefit Rate per Hour: **\$56.20**

Changehouse Attendant: Powder Watchperson (Compressed Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$56.04**

Supplemental Benefit Rate per Hour: **\$52.83**

Blasters (Free Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$65.41**

Supplemental Benefit Rate per Hour: **\$57.80**

Tunnel Workers (Free Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$62.58**

Supplemental Benefit Rate per Hour: **\$55.38**

All Others (Free Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$57.84**

Supplemental Benefit Rate per Hour: **\$51.26**

Microtunneling (Free Air Rates)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$50.06**

Supplemental Benefit Rate per Hour: **\$44.30**

Overtime Description

For work performed during excavation and primary concrete tunnel lining phases - Double time the regular rate after an 8 hour day and Saturday, Sunday and on the following holiday(s) listed below.

For Repair-Maintenance Work on Existing Equipment and Facilities - Time and one half the regular rate after a 7 hour day, Saturday, Sunday and double time the regular rate for work on the following holiday(s) listed below.

For Small-Bore Micro Tunneling Machines - Time and one-half the regular rate shall be paid for all overtime.

For work not listed above - Time and one half the regular rate after an 8 hour day and Saturday and double time the regular rate on Sunday and on the following holiday(s) listed below.

Paid Holidays

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Veteran's Day

Thanksgiving Day

Christmas Day

(Local #147)

UTILITY LOCATOR

(Locate & mark underground utilities for street excavation.)

Utility Locator (Year 7 and above)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$31.56**

Supplemental Benefit Rate per Hour: **\$1.43**

Utility Locator (Year 5 - 6)

Effective Period: 7/1/2021 - 6/30/2022

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

Wage Rate per Hour: \$22.85

Supplemental Benefit Rate per Hour: \$1.43

Utility Locator (Year 4)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$21.54

Supplemental Benefit Rate per Hour: \$1.43

Utility Locator (Year 3)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$20.30

Supplemental Benefit Rate per Hour: \$1.43

Utility Locator (Year 2)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$19.13

Supplemental Benefit Rate per Hour: \$1.43

Utility Locator (Year 1)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$18.04

Supplemental Benefit Rate per Hour: \$1.43

Utility Locator (Up to 1 year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$17.00

Supplemental Benefit Rate per Hour: \$1.43

Supplemental Note: No benefits for the first 90 days of employment.

Overtime

Time and one half the regular rate for work on the following holiday(s).

Time and one half the regular hourly rate after 40 straight time hours in any work week.

Paid Holidays

New Year's Day

Memorial Day

Independence Day

Thanksgiving Day

Christmas Day

Shift Rates

10% shift differential to employees working any shift starting between noon and 5 AM.

Vacation

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION WORKER PREVAILING WAGE SCHEDULE**

For up to 1 year 0 hours
For year 1 - 2 48 hours per year
For year 3 - 9 96 hours per year
For year 10 or more 144 hours per year

Sick Days:

For up to 1 year employee receives 40 hours paid sick leave.
For year 1 employee earns 2 hours of paid sick leave for every 100 overtime hours worked.
For year 2 - 9 years employee earns 4 hours of paid sick leave for every 100 overtime hours worked.
For year 10 or more employee earns 6 hours of paid sick leave for every 100 overtime hours worked.

(C.W.A.)

WELDER

**TO BE PAID AT THE RATE OF THE JOURNEYPERSON IN THE TRADE
PERFORMING THE WORK.**

OFFICE OF THE COMPTROLLER

CITY OF NEW YORK

CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Pursuant to Labor Law § 220 (3-e), only apprentices who are individually registered in a bona fide program to which the employer contractor is a participant and registered with the New York State Department of Labor, may be paid at the apprentice rates in this schedule. Apprentices who are not so registered must be paid as journey persons in accordance with the trade classification of the work they actually performed.

Apprentice ratios are established to ensure the proper safety, training and supervision of apprentices. A ratio establishes the number of journey workers required for each apprentice in a program and on a job site. Ratios are interpreted as follows: in the case of a 1:1, 1:4 ratio, there must be one journey worker for the first apprentice, and four additional journey workers for each subsequent apprentice.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

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BOILERMAKER

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

Boilermaker (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 65% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$33.12

Boilermaker (Second Year: 1st Six Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 70% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$35.05

Boilermaker (Second Year: 2nd Six Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 75% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$37.01

Boilermaker (Third Year: 1st Six Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 80% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$38.92

Boilermaker (Third Year: 2nd Six Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 85% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$40.87

Boilermaker (Fourth Year: 1st Six Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 90% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$42.82

Boilermaker (Fourth Year: 2nd Six Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 95% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$44.74

(Local #5)

BRICKLAYER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Bricklayer (First 750 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$22.95

Bricklayer (Second 750 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$22.95

Bricklayer (Third 750 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$22.95

Bricklayer (Fourth 750 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$22.95

Bricklayer (Fifth 750 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 90% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$22.95

Bricklayer (Sixth 750 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 95% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$22.95

(Bricklayer District Council)

CARPENTER

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

Carpenter (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour For Building Apprentice: \$19.55

Supplemental Benefit Rate Per Hour For Building Apprentice: \$16.35

Wage Rate Per Hour For Heavy Apprentice: \$23.37

Supplemental Benefit Rate Per Hour For Heavy Apprentice: \$35.49

Carpenter (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour For Building Apprentice: \$22.55

Supplemental Benefit Rate Per Hour For Building Apprentice: \$17.85

Wage Rate Per Hour For Heavy Apprentice: \$28.97

Supplemental Benefit Rate Per Hour For Heavy Apprentice: \$35.49

Carpenter (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour For Building Apprentice: \$26.80

Supplemental Benefit Rate Per Hour For Building Apprentice: \$21.45

Wage Rate Per Hour For Heavy Apprentice: \$37.35

Supplemental Benefit Rate Per Hour For Heavy Apprentice: \$35.49

Carpenter (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour For Building Apprentice: \$34.68

Supplemental Benefit Rate Per Hour For Building Apprentice: \$23.45

Wage Rate Per Hour For Heavy Apprentice: \$45.74

Supplemental Benefit Rate Per Hour For Heavy Apprentice: \$35.49

(Carpenters District Council)

CARPENTER - HIGH RISE CONCRETE FORMS

(Ratio of Apprentice to Journeyman: 1 to 1, 2 to 5)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Carpenter - High Rise (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$18.27**

Supplemental Benefit Rate per Hour: **\$16.55**

Carpenter - High Rise (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$24.70**

Supplemental Benefit Rate per Hour: **\$16.73**

Carpenter - High Rise (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$31.28**

Supplemental Benefit Rate per Hour: **\$16.95**

Carpenter - High Rise (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$38.90**

Supplemental Benefit Rate per Hour: **\$17.20**

(Carpenters District Council)

CEMENT MASON

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Cement Mason (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$19.57**

Supplemental Benefit Rate per Hour: **\$15.61**

Cement Mason (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$24.40**

Supplemental Benefit Rate per Hour: **\$15.91**

Cement Mason (Third Year)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$29.68**

Supplemental Benefit Rate per Hour: **\$16.02**

(Local #780)

CEMENT AND CONCRETE WORKER
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

Cement & Concrete Worker (First 1333 hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 53% of Journeyman's rate

Supplemental Benefit Rate Per Hour: **\$14.79**

Cement & Concrete Worker (Second 1333 hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 69% of Journeyman's rate

Supplemental Benefit Rate Per Hour: **\$19.72**

Cement & Concrete Worker (Last 1334 hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 85% of Journeyman's rate

Supplemental Benefit Rate Per Hour: **\$21.30**

(Cement Concrete Workers District Council)

DERRICKPERSON & RIGGER (STONE)
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

Derrickperson & Rigger (stone) - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 50% of Journeyman's rate

Supplemental Benefit Rate Per Hour: 50% of Journeyman's rate

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Derrickperson & Rigger (stone) - Second Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: 75% of Journeyperson's rate

Derrickperson & Rigger (stone) - Second Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: 75% of Journeyperson's rate

Derrickperson & Rigger (stone) - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 90% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: 75% of Journeyperson's rate

(Local #197)

DOCKBUILDER/PILE DRIVER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 6)

Dockbuilder/Pile Driver (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$23.37

Supplemental Benefit Rate Per Hour: \$35.49

Dockbuilder/Pile Driver (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$28.97

Supplemental Benefit Rate Per Hour: \$35.49

Dockbuilder/Pile Driver (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$37.35

Supplemental Benefit Rate Per Hour: \$35.49

Dockbuilder/Pile Driver (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$45.74

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Supplemental Benefit Rate Per Hour: \$35.49

(Carpenters District Council)

ELECTRICIAN

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Electrician (First Term: 0-6 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$17.25

Supplemental Benefit Rate per Hour: \$14.93

Overtime Supplemental Rate Per Hour: \$16.07

Electrician (First Term: 7-12 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$17.75

Supplemental Benefit Rate per Hour: \$15.19

Overtime Supplemental Rate Per Hour: \$16.36

Electrician (Second Term: 0-6 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$18.75

Supplemental Benefit Rate per Hour: \$15.70

Overtime Supplemental Rate Per Hour: \$16.95

Electrician (Second Term: 7-12 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$19.75

Supplemental Benefit Rate per Hour: \$16.22

Overtime Supplemental Rate Per Hour: \$17.53

Electrician (Third Term: 0-6 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$20.75

Supplemental Benefit Rate per Hour: \$16.74

Overtime Supplemental Rate Per Hour: \$18.11

Electrician (Third Term: 7-12 Months)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$21.75**

Supplemental Benefit Rate per Hour: **\$17.26**

Overtime Supplemental Rate Per Hour: **\$18.70**

Electrician (Fourth Term: 0-6 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$22.75**

Supplemental Benefit Rate per Hour: **\$17.77**

Overtime Supplemental Rate Per Hour: **\$19.28**

Electrician (Fourth Term: 7-12 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$24.75**

Supplemental Benefit Rate per Hour: **\$18.81**

Overtime Supplemental Rate Per Hour: **\$20.45**

Electrician (Fifth Term: 0-12 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.00**

Supplemental Benefit Rate per Hour: **\$22.06**

Overtime Supplemental Rate Per Hour: **\$23.70**

Electrician (Fifth Term: 13-18 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$30.50**

Supplemental Benefit Rate per Hour: **\$24.45**

Overtime Supplemental Rate Per Hour: **\$26.38**

Overtime Description

Overtime Wage paid at time and one half the regular rate

(Local #3)

ELEVATOR CONSTRUCTOR

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 2)

Elevator (Constructor) - First Year

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE**

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 50% of Journeyperson's rate
Supplemental Rate Per Hour: \$32.76

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 50% of Journeyperson's rate
Supplemental Rate Per Hour: \$33.38

Elevator (Constructor) - Second Year

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Rate Per Hour: \$33.31

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Rate Per Hour: \$33.96

Elevator (Constructor) - Third Year

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 65% of Journeyperson's rate
Supplemental Rate Per Hour: \$34.42

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 65% of Journeyperson's rate
Supplemental Rate Per Hour: \$35.10

Elevator (Constructor) - Fourth Year

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Rate Per Hour: \$35.52

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Rate Per Hour: \$36.24

(Local #1)

ELEVATOR REPAIR & MAINTENANCE
(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 2)

Elevator Service/Modernization Mechanic (First Year)

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE**

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 50% of Journeyperson's rate
Supplemental Benefit Per Hour: \$32.71

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 50% of Journeyperson's rate
Supplemental Benefit Per Hour: \$33.33

Elevator Service/Modernization Mechanic (Second Year)

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Benefit Per Hour: \$33.26

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Benefit Per Hour: \$33.90

Elevator Service/Modernization Mechanic (Third Year)

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 65% of Journeyperson's rate
Supplemental Benefit Per Hour: \$34.35

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 65% of Journeyperson's rate
Supplemental Benefit Per Hour: \$35.03

Elevator Service/Modernization Mechanic (Fourth Year)

Effective Period: 7/1/2021 - 3/16/2022
Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Benefit Per Hour: \$35.45

Effective Period: 3/17/2022 - 6/30/2022
Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Benefit Per Hour: \$36.17

(Local #1)

ENGINEER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 5)

Engineer - First Year

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$25.38**

Supplemental Benefit Rate per Hour: **\$28.51**

Engineer - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$31.72**

Supplemental Benefit Rate per Hour: **\$28.51**

Engineer - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$34.89**

Supplemental Benefit Rate per Hour: **\$28.51**

Engineer - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$38.06**

Supplemental Benefit Rate per Hour: **\$28.51**

(Local #15)

ENGINEER - OPERATING

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 5)

Operating Engineer - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 40% of Operating Engineer - Road & Heavy Construction V's Rate

Supplemental Benefit Per Hour: **\$24.05**

Operating Engineer - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 50% of Operating Engineer - Road & Heavy Construction V's Rate

Supplemental Benefit Per Hour: **\$24.05**

Operating Engineer - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 60% of Operating Engineer - Road & Heavy Construction V's Rate

Supplemental Benefit Per Hour: **\$24.05**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

(Local #14)

FLOOR COVERER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Floor Coverer (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$24.55**

Supplemental Benefit Rate per Hour: **\$16.35**

Floor Coverer (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$27.55**

Supplemental Benefit Rate per Hour: **\$17.85**

Floor Coverer (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$31.80**

Supplemental Benefit Rate per Hour: **\$21.45**

Floor Coverer (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$39.68**

Supplemental Benefit Rate per Hour: **\$23.45**

(Carpenters District Council)

GLAZIER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Glazier (First Year)

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

Glazier (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

Glazier (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

Glazier (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

(Local #1281)

HAZARDOUS MATERIAL HANDLER
(Ratio of Apprentice Journeyperson: 1 to 1, 1 to 3)

Handler (First 1000 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 78% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$14.25

Handler (Second 1000 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$14.25

Handler (Third 1000 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 83% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$14.25

Handler (Fourth 1000 Hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 89% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$14.25

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

(Local #78)

HEAT & FROST INSULATOR
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

Heat & Frost Insulator (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 40% of Journeyman's rate

Heat & Frost Insulator (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 50% of Journeyman's rate

Heat & Frost Insulator (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 60% of Journeyman's rate

Heat & Frost Insulator (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 70% of Journeyman's rate

(Local #12)

HOUSE WRECKER
(TOTAL DEMOLITION)
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

House Wrecker - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$20.20

Supplemental Benefit Rate per Hour: \$10.07

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

House Wrecker - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$22.15**

Supplemental Benefit Rate per Hour: **\$10.07**

House Wrecker - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$23.65**

Supplemental Benefit Rate per Hour: **\$10.07**

House Wrecker - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.15**

Supplemental Benefit Rate per Hour: **\$10.07**

(Mason Tenders District Council)

IRON WORKER - ORNAMENTAL

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Iron Worker (Ornamental) - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$20.63**

Supplemental Benefit Rate per Hour: **\$17.61**

Iron Worker (Ornamental) - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$24.22**

Supplemental Benefit Rate per Hour: **\$18.86**

Iron Worker (Ornamental) - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$27.80**

Supplemental Benefit Rate per Hour: **\$20.12**

Iron Worker (Ornamental) - Fourth Year

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$31.38

Supplemental Benefit Rate per Hour: \$21.38

(Local #580)

IRON WORKER - STRUCTURAL

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 6)

Iron Worker (Structural) - 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$28.21

Supplemental Benefit Rate per Hour: \$57.12

Iron Worker (Structural) - 7- 18 Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$28.81

Supplemental Benefit Rate per Hour: \$57.12

Iron Worker (Structural) - 19 - 36 months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$29.42

Supplemental Benefit Rate per Hour: \$57.12

(Local #40 and #361)

LABORER (FOUNDATION, CONCRETE, EXCAVATING, STREET PIPE LAYER & COMMON)

(Ratio Apprentice to Journeyperson: 1 to 1, 1 to 3)

Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - First 1000 hours

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 50% of Journeyperson's rate
Supplemental Rate Per Hour: \$48.63

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) -
Second 1000 hours**

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 60% of Journeyperson's rate
Supplemental Rate Per Hour: \$48.63

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) -
Third 1000 hours**

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Rate Per Hour: \$48.63

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) -
Fourth 1000 hours**

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 90% of Journeyperson's rate
Supplemental Rate Per Hour: \$48.63

(Local #731)

MARBLE MECHANICS
(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Cutters & Setters - First 750 Hours

Effective Period: 7/1/2021 - 6/30/2022
Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

NO BENEFITS PAID DURING THE FIRST TWO MONTHS (PROBATIONARY PERIOD)

Cutters & Setters - Second 750 Hours

Effective Period: 7/1/2021 - 6/30/2022
Wage and Supplemental Rate Per Hour: 45% of Journeyperson's rate

Cutters & Setters - Third 750 Hours

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

Cutters & Setters - Fourth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 55% of Journeyperson's rate

Cutters & Setters - Fifth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

Cutters & Setters - Sixth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 65% of Journeyperson's rate

Cutters & Setters - Seventh 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 70% of Journeyperson's rate

Cutters & Setters - Eighth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's rate

Cutters & Setters - Ninth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 85% of Journeyperson's rate

Cutters & Setters - Tenth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 95% of Journeyperson's rate

Polishers & Finishers - First 900 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 70% of Journeyperson's rate

NO BENEFITS PAID DURING THE FIRST TWO MONTHS (PROBATIONARY PERIOD)

Polishers & Finishers - Second 900 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Polishers & Finishers - Third 900 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 90% of Journeyperson's rate

(Local #7)

MASON TENDER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Mason Tender - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$20.20**

Supplemental Benefit Rate per Hour: **\$10.07**

Mason Tender - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$22.15**

Supplemental Benefit Rate per Hour: **\$10.07**

Mason Tender - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$23.65**

Supplemental Benefit Rate per Hour: **\$10.07**

Mason Tender - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$26.15**

Supplemental Benefit Rate per Hour: **\$10.07**

(Local #79)

METALLIC LATHER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Metallic Lather (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$21.00**

Supplemental Benefit Rate per Hour: **\$17.87**

Metallic Lather (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$22.00**

Supplemental Benefit Rate per Hour: **\$16.87**

Metallic Lather (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$33.10**

Supplemental Benefit Rate per Hour: **\$21.32**

Metallic Lather (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$35.60**

Supplemental Benefit Rate per Hour: **\$21.82**

(Local #46)

MILLWRIGHT

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Millwright (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$30.74**

Supplemental Benefit Rate per Hour: **\$35.19**

Millwright (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$36.19**

Supplemental Benefit Rate per Hour: **\$38.89**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Millwright (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$41.64**

Supplemental Benefit Rate per Hour: **\$43.24**

Millwright (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$52.54**

Supplemental Benefit Rate per Hour: **\$50.00**

(Local #740)

PAINTER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Painter - Brush & Roller - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$17.20**

Supplemental Benefit Rate per Hour: **\$16.67**

Painter - Brush & Roller - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$21.50**

Supplemental Benefit Rate per Hour: **\$21.44**

Painter - Brush & Roller - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$25.80**

Supplemental Benefit Rate per Hour: **\$25.27**

Painter - Brush & Roller - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$34.40**

Supplemental Benefit Rate per Hour: **\$32.51**

(District Council of Painters)

PAINTER - METAL POLISHER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Metal Polisher (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$16.00**

Supplemental Benefit Rate per Hour: **\$7.36**

New Construction - Wage Rate Per Hour: **\$16.39**

Scaffold Over 34 Feet - Wage Rate Per Hour: **\$18.50**

Metal Polisher (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$17.00**

Supplemental Benefit Rate per Hour: **\$7.36**

New Construction - Wage Rate Per Hour: **\$17.44**

Scaffold Over 34 Feet - Wage Rate Per Hour: **\$19.50**

Metal Polisher (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$18.00**

Supplemental Benefit Rate per Hour: **\$7.36**

New Construction - Wage Rate Per Hour: **\$18.54**

Scaffold Over 34 Feet - Wage Rate Per Hour: **\$20.50**

(Local 8A-28)

PAINTER - STRUCTURAL STEEL

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Painters - Structural Steel (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

Painters - Structural Steel (Second Year)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

Painters - Structural Steel (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

(Local #806)

PAVER AND ROADBUILDER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Paver and Roadbuilder - First Year (Minimum 1000 hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$29.86

Supplemental Benefit Rate per Hour: \$23.55

Paver and Roadbuilder - Second Year (Minimum 1000 hours)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$31.50

Supplemental Benefit Rate per Hour: \$23.55

(Local #1010)

PLASTERER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

(Each Term is 800 Hours.)

Plasterer - First Term

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$17.48

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Plasterer - Second Term

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 60% of Journeyperson's rate
Supplemental Rate Per Hour: \$18.63

Plasterer - Third Term

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 70% of Journeyperson's rate
Supplemental Rate Per Hour: \$20.93

Plasterer - Fourth Term

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Rate Per Hour: \$22.10

(Local #262)

PLASTERER - TENDER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Plasterer Tender - First Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$20.20
Supplemental Benefit Rate per Hour: \$10.07

Plasterer Tender - Second Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$22.15
Supplemental Benefit Rate per Hour: \$10.07

Plasterer Tender - Third Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$23.65
Supplemental Benefit Rate per Hour: \$10.07

Plasterer Tender - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$26.15**

Supplemental Benefit Rate per Hour: **\$10.07**

(Local #79)

PLUMBER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Plumber - First Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$16.78**

Supplemental Benefit Rate per Hour: **\$5.43**

Plumber - First Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$19.78**

Supplemental Benefit Rate per Hour: **\$6.43**

Plumber - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$28.36**

Supplemental Benefit Rate per Hour: **\$21.19**

Plumber - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$30.46**

Supplemental Benefit Rate per Hour: **\$21.19**

Plumber - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$33.31**

Supplemental Benefit Rate per Hour: **\$21.19**

Plumber - Fifth Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$34.71**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Supplemental Benefit Rate per Hour: \$21.19

Plumber - Fifth Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$46.78

Supplemental Benefit Rate per Hour: \$21.19

(Plumbers Local #1)

**POINTER, WATERPROOFER, CAULKER, SANDBLASTER,
STEAMBLASTER**

(Exterior Building Renovation)

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Pointer, Waterproofer, Caulker, Sandblaster, Steamblaster - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$28.92

Supplemental Benefit Rate per Hour: \$14.81

Pointer, Waterproofer, Caulker, Sandblaster, Steamblaster - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$32.58

Supplemental Benefit Rate per Hour: \$19.86

Pointer, Waterproofer, Caulker, Sandblaster, Steamblaster - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$37.63

Supplemental Benefit Rate per Hour: \$23.61

Pointer, Waterproofer, Caulker, Sandblaster, Steamblaster - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: \$45.44

Supplemental Benefit Rate per Hour: \$24.61

(Bricklayer District Council)

ROOFER

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 2)

Roofer - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 35% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$3.51

Roofer - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 50% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$17.54

Roofer - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 60% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$20.99

Roofer - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 75% of Journeyman's rate

Supplemental Benefit Rate Per Hour: \$26.18

(Local #8)

SHEET METAL WORKER

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

Sheet Metal Worker (0-6 Months)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: 25% of Journeyman's rate

Supplemental Rate Per Hour: \$6.76

Sheet Metal Worker (7-18 Months)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 35% of Journeyperson's rate
Supplemental Rate Per Hour: \$19.55

Sheet Metal Worker (19-30 Months)

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 45% of Journeyperson's rate
Supplemental Rate Per Hour: \$26.65

Sheet Metal Worker (31-36 Months)

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Rate Per Hour: \$31.50

Sheet Metal Worker (37-42 Months)

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Rate Per Hour: \$31.50

Sheet Metal Worker (43-48 Months)

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 70% of Journeyperson's rate
Supplemental Rate Per Hour: \$38.78

Sheet Metal Worker (49-54 Months)

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 70% of Journeyperson's rate
Supplemental Rate Per Hour: \$38.78

Sheet Metal Worker (55-60 Months)

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 80% of Journeyperson's rate
Supplemental Rate Per Hour: \$43.65

(Local #28)

SIGN ERECTOR

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Sign Erector - First Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 35% of Journeyperson's rate
Supplemental Rate Per Hour: \$16.51

Sign Erector - First Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 40% of Journeyperson's rate
Supplemental Rate Per Hour: \$18.74

Sign Erector - Second Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 45% of Journeyperson's rate
Supplemental Rate Per Hour: \$20.96

Sign Erector - Second Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 50% of Journeyperson's rate
Supplemental Rate Per Hour: \$23.21

Sign Erector - Third Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 55% of Journeyperson's rate
Supplemental Rate Per Hour: \$31.44

Sign Erector - Third Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 60% of Journeyperson's rate
Supplemental Rate Per Hour: \$34.20

Sign Erector - Fourth Year: 1st Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 65% of Journeyperson's rate
Supplemental Rate Per Hour: \$37.76

Sign Erector - Fourth Year: 2nd Six Months

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 70% of Journeyperson's rate
Supplemental Rate Per Hour: \$40.62

Sign Erector - Fifth Year

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Wage Rate Per Hour: 75% of Journeyperson's rate
Supplemental Rate Per Hour: \$43.44

Sign Erector - Sixth Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 80% of Journeyperson's rate
Supplemental Rate Per Hour: \$46.27

(Local #137)

STEAMFITTER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

Steamfitter - First Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate and Supplemental Per Hour: 40% of Journeyperson's rate

Steamfitter - Second Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate and Supplemental Rate Per Hour: 50% of Journeyperson's rate.

Steamfitter - Third Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate and Supplemental Rate per Hour: 65% of Journeyperson's rate.

Steamfitter - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate and Supplemental Rate Per Hour: 80% of Journeyperson's rate.

Steamfitter - Fifth Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate and Supplemental Rate Per Hour: 85% of Journeyperson's rate.

(Local #638)

STEAMFITTER - REFRIGERATION & AIR CONDITIONER (Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

Refrigeration & Air Conditioner (First Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$20.75**

Supplemental Benefit Rate per Hour: **\$12.99**

Refrigeration & Air Conditioner (Second Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$25.04**

Supplemental Benefit Rate per Hour: **\$14.23**

Refrigeration & Air Conditioner (Third Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$29.17**

Supplemental Benefit Rate per Hour: **\$15.53**

Refrigeration & Air Conditioner (Fourth Year)

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$35.22**

Supplemental Benefit Rate per Hour: **\$17.29**

(Local #638-B)

STONE MASON - SETTER (Ratio Apprentice of Journeyman: 1 to 1, 1 to 2)

Stone Mason - Setters - First 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 50% of Journeyman's rate

Stone Mason - Setters - Second 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Wage Rate Per Hour: 60% of Journeyperson's rate
Supplemental Rate Per Hour: 50% of Journeyperson's rate

Stone Mason - Setters - Third 750 Hours

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 70% of Journeyperson's rate
Supplemental Rate Per Hour: 50% of Journeyperson's rate

Stone Mason - Setters - Fourth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 80% of Journeyperson's rate
Supplemental Rate Per Hour: 50% of Journeyperson's rate

Stone Mason - Setters - Fifth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 90% of Journeyperson's rate
Supplemental Rate Per Hour: 50% of Journeyperson's rate

Stone Mason - Setters - Sixth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate Per Hour: 100% of Journeyperson's rate
Supplemental Rate Per Hour: 50% of Journeyperson's rate

(Bricklayers District Council)

TAPER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

Drywall Taper - First Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$20.97
Supplemental Benefit Rate per Hour: \$13.55

Drywall Taper - Second Year

Effective Period: 7/1/2021 - 6/30/2022
Wage Rate per Hour: \$24.24
Supplemental Benefit Rate per Hour: \$20.31

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Drywall Taper - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$29.08**

Supplemental Benefit Rate per Hour: **\$22.06**

Drywall Taper - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate per Hour: **\$38.78**

Supplemental Benefit Rate per Hour: **\$25.56**

(Local #1974)

TILE LAYER - SETTER

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

Tile Layer - Setter - First 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 35% of Journeyman's rate

Tile Layer - Setter - Second 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 40% of Journeyman's rate

Tile Layer - Setter - Third 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 50% of Journeyman's rate

Tile Layer - Setter - Fourth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 55% of Journeyman's rate

Tile Layer - Setter - Fifth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 60% of Journeyman's rate

Tile Layer - Setter - Sixth 750 Hours

**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE**

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 65% of Journeyperson's rate

Tile Layer - Setter - Seventh 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 70% of Journeyperson's rate

Tile Layer - Setter - Eighth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's rate

Tile Layer - Setter - Ninth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

Tile Layer - Setter - Tenth 750 Hours

Effective Period: 7/1/2021 - 6/30/2022

Wage and Supplemental Rate Per Hour: 90% of Journeyperson's rate

(Local #7)

TIMBERPERSON

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 6)

Timberperson - First Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$21.42

Supplemental Rate Per Hour: \$35.22

Timberperson - Second Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$26.53

Supplemental Rate Per Hour: \$35.22

Timberperson - Third Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$34.18

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK
CONSTRUCTION APPRENTICE PREVAILING WAGE SCHEDULE

Supplemental Rate Per Hour: \$35.22

Timberperson - Fourth Year

Effective Period: 7/1/2021 - 6/30/2022

Wage Rate Per Hour: \$41.84

Supplemental Rate Per Hour: \$35.22

(Local #1536)



Leonard A. Mancusi
SENIOR ASSISTANT COMPTROLLER

THE CITY OF NEW YORK
OFFICE OF THE COMPTROLLER
1 CENTRE STREET ROOM 1120
NEW YORK, N.Y. 10007-2341

TELEPHONE: (212) 669-3622
FAX NUMBER: (212) 669-8499

ALAN G. HEVESI
COMPTROLLER

MEMORANDUM

November 6, 2000

To Agency Chief Contracting Officers

From: Leonard A. Mancusi 

Re: Security at Construction Sites
.....

Prior to the enactment of Administrative Code §6-109, security guards on construction sites were not subject to prevailing wages. Security guards under the New York State labor law are covered under §230 which provides that prevailing wages are to be paid for security guards in existing buildings. §6-109 of the Administrative Code which was enacted in 1996 closed this loophole by including all security guards working pursuant to a city contract as a prevailing wage trade.

Although some construction contract boilerplate language has been amended to include §6-109, sub-contractors performing security services have advised us that they were not aware of this provision and, since traditionally, security guards were not a covered trade on construction sites, and they were not advised by a prime contractor that they would have to pay prevailing wages, they have not been doing so.

To avoid the possibility of issuing stop payments against prime contractors for the failure of their security service sub-contractors to pay

prevailing wages, we suggest that you write to all your existing security guard sub-contractors and their primes and in the future, upon approval of a security guard sub-contractor, advise the contractors of their obligation to pay prevailing wages under §6-109 of the Administrative Code.

As always, your cooperation is appreciated.

-LAM:er
ACCO.SECURITY AT SITES



**Department of
Design and
Construction**

**DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN**

VOLUME 2 OF 3

PROJECT ID: HWK797W

**RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

INCLUDING SEWER, WATER MAIN, STREET LIGHTING, AND TRAFFIC SIGNAL WORK

**Together With All Work Incidental Thereto
BOROUGH OF BROOKLYN
CITY OF NEW YORK**

Contractor

Dated _____, 20____

**APPROVED AS TO FORM
CERTIFIED AS TO LEGAL AUTHORITY**

Acting Corporation Counsel

Dated _____, 20____



**Department of
Design and
Construction**

**DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN**

VOLUME 2 OF 3

PROJECT ID: HWK797W

**RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

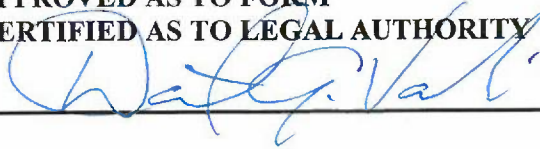
INCLUDING SEWER, WATER MAIN, STREET LIGHTING, AND TRAFFIC SIGNAL WORK

**Together With All Work Incidental Thereto
BOROUGH OF BROOKLYN
CITY OF NEW YORK**

Contractor

Dated _____, 20____

**APPROVED AS TO FORM
CERTIFIED AS TO LEGAL AUTHORITY**



Acting Corporation Counsel

up 1/26/22

Dated *January 26*, 20*22*



**Department of
Design and
Construction**

**THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND
CONSTRUCTION**

DIVISION OF INFRASTRUCTURE

30-30 THOMSON AVENUE
LONG ISLAND CITY, NY, 11101
TEL: 718.391.1000
WEB: www.nyc.gov/ddc

TO BE FILLED IN BY THE BIDDER:

BIDDER'S NAME:

BID SECURITY (CIRCLE ONE):
BID BOND / CERTIFIED CHECK

NUMBER OF ADDENDUMS RECEIVED
AND ATTACHED TO BID:
_____ ADDENDUMS

DDC CLIENT AGENCY:
**THE DEPARTMENT OF
TRANSPORTATION**

PREPARED BY:
IN-HOUSE DESIGN

DATE PREPARED:
12/4/2019



VOLUME 3 OF 3

FOR FURNISHING ALL LABOR AND MATERIALS
NECESSARY AND REQUIRED FOR:

PROJECT ID: HWK797W

**SCHEDULE A
SPECIFICATIONS AND
REVISIONS TO STANDARD
SPECIFICATIONS**

**RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM LIBERTY AVENUE
TO PITKIN AVENUE**

**SCHENCK FROM HEGEMAN AVENUE TO
COZINE AVENUE**

**BELMONT AVENUE FROM SCHENCK AVENUE
TO BARBEY STREET**

**INCLUDING SEWER, WATER MAIN, STREET LIGHTING,
AND TRAFFIC SIGNAL WORK**

TOGETHER WITH ALL WORK INCIDENTAL THERETO

BOROUGH OF THE BROOKLYN

CITY OF NEW YORK

FHWA FUNDED – NYSDOT PIN: X772.78

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE



ADDENDA CONTROL SHEET

BID SUBMISSION DATE/ TIME: March 8, 2022; between 8:30 AM and 11:00 AM

BID OPENING DATE/ TIME: March 8, 2022; 11:30 AM

PROJECT No. : HWK797W

TITLE: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK
AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY
STREET

ADDENDA ISSUED	NO. OF DWG	DATE	APPROVED BY:	
			SPECS UNIT	GENERAL COUNSEL
#1 Questions from Bidders and Responses to Questions; Revisions to PASSPort Forms; Revisions to Documents.	2	3/2/2022	 3/2/2022	 3-2-22

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE

3/2/2022

ADDENDUM No. # 1

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

85021B0162- HWK797W

RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

This addendum is issued for the purpose of amending the requirements of the Bid and Contract Documents and is hereby made a part of said Bid and Contract Documents to the same extent as though it were originally included therein.

The bidder is advised that the items listed below apply to the project:

1. **Bidders Questions and Responses to Questions:**
Attachment A is included with this Addendum.
2. **Revisions to Documents:**
Attachment B is included with this Addendum.
3. **Revisions to PASSPort forms:**
Attachment C is included with this Addendum.

Transferring Data Between Rounds of an RFX: A new document titled "Transferring Data Between Rounds of an RFX" has been added to the Documents section of the View RFX tab. Please refer to this document when an addendum has been issued. Note: Whenever an addendum is issued, the RFX item grid will be cleared. You can import the work you have already done by following the steps on this document.

DDC strongly advises vendors to finalize and submit bids 48 hours prior to due date and time. The City is not responsible for technical issues (e.g. internet connection, power outages, technology malfunction, computer errors, etc.) related to bid submissions.

If additional information is required, please contact the Department of Design and Construction, Contract Section at (718) 391-1041 or by email at CSB_projectinquiries@ddc.nyc.gov.

Richard Jones, PE CWI CDT
Executive Director, Specifications

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
1.	<p>The Excel spreadsheet, which states the project is a percentage project refers us to the Bid Schedule. However, there in none in the RFX.</p> <p>Additionally, in the spreadsheet there are no additional tabs for Fixed Sum or other additions to the bid numbers. Is this correct for this project?</p>	<p>This is a unit price contract. The Bid Schedule is located in the Questionnaire.</p>
2	<p>Can you please provide clarification regarding the following?</p> <ol style="list-style-type: none"> 1) ROWB 1215A (Plan Sheet C-1) – The type of bioswale is not specified. What type of bioswale is required? 2) ROWB 2273B (Plan Sheet C-4) – This bioswale requires stone columns, column depth is listed as N/A in the bioswale table. Please specify the stone column depth. 3) ROWB 2273B (Plan Sheet C-4) – Bioswale 2273B – ROWB Type 1 Hydraulically connected: Should this bioswale be labeled 2273A as there is another swale labeled as 2273B? Please see excerpt below. 	<ol style="list-style-type: none"> 1- Stated the type of Bioswale is required- 13'x5' ROWB Type2 2- .This asset should be labeled 2273A- with stormwater chamber. No Stone columns required. 3- The asset will stay labeled 2273B.
3	<p>The traffic signal (TS-1 through TS-5) and street lighting (SL1 through SL-6) drawings are graphically unclear. Is it possible for you to provide better quality reproductions?</p>	<p>See ATTACHMENT B herein this ADDENDUM. The NYC Department of Transportation, standard TRAFFIC SIGNAL and STREET LIGHTING DRAWINGS have been digitally modified for clarity.</p>

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
4	Plan sheet C5 depicts Schenck Ave. Sta. 49+65 – 55+39 and calls for resurfacing and to meet existing grades. Is the intention of this work to mill and pave? If so, how is the milling work paid for?	BID SCHEDULE revised. Refer to ATTACHMENT C herein this ADDENDUM.
5	The Qualification Form for this project is not available in PASSPort (see below). Please advise.	Refer to ATTACHMENT C herein this ADDENDUM.
6.	Can you please clarify the following regarding item GI-2.19 “ Storm Water Chamber”: 1) The bid schedule indicates an estimated quantity of 1.50 LF. This quantity seems to be incorrect. Please clarify. 2) Can you please specify the width and height for this structure	1. BID SCHEDULE revised. Refer to ATTACHMENT C herein this ADDENDUM. 2. The width is 40”-51” and the height is 25”-30”
7	Refer to volume 3 of the latest specification book and go to sheet S-2 (pg. 49 of 365) note K. The note states that whenever the item 6.52 and the words flagger are used in the contract, it will mean the item 6.52 CB and the word crossing guard. Please note that cross guards and flaggers both have their own unique union rules and both of them have very different hourly rates. Please clearly specify exactly what type service is required on this job in Schneck Avenue HWK797W. Will you need a Flagger, Flagperson or Flagman, or will you need a crossing guard? Please provide the rate for the flagger if it is the service we need on this job. Please provide the rate for the cross guard is it is the service we need on this job.	Please read Article K, of (A) GENERAL PROVISIONS in conjunction with the requirements of SECTION 6.52 FED – UNIFORMED FLAGPERSON. This item will be paid in accordance with the requirements of SECTION 6.52 FED. Flagpersons utilize by the contractor to temporary control the traffic (for example loading unloading of material etc.) will not be paid under item number 6.52 FED.

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
8	<p>1. The quantity provided for item 70.81CB looks extraordinarily high for this job. After taking into consideration all the trenches for water main, sewer, sanitary, electrical work on the job (from subgrade to 1'-2' above the top of pipe) we came up with no more than 2,000 CY of item 70.81CB clean backfill while the quantity provided to us is 15,015 CY. Can you please provide us with a breakdown on where this quantity is coming from? We would like to know work locations for this clean backfill. Profile views do not show significant changes in elevation of Schenck Avenue.</p> <p>2. The quantity provided for item 6.02AAN looks extraordinarily high for this job. After taking into consideration all the existing road removal we came up with no more than 3,000 CY of item 6.02AAN Unclassified Excavation while the quantity provided to us is 4,887 CY. Can you please provide us with a breakdown on where this quantity is coming from? We would like to know work locations for this Unclassified Excavation. Profile views do not show significant changes in elevation of Schenck Avenue.</p>	<p>For the quantities of 70.81CB and 6.02AAN, refer to ATTACHMENT C herein this ADDENDUM. The BID SCHEDULE has been revised.</p> <p>Refer to the drawings for the locations of the work locations for the clean backfill sand for the work locations for the Unclassified Excavation.</p>
9	<p>Refer to UI Pages "Utility Interferences Section" in Volume 3 of the latest specification book. We have been given quantities and work locations for Altice, Con Edison, National Grid and Verizon work. Under what items do we get paid for this work? The current bid item list does not show any work dealing with the above private utilities.</p>	<p>Please read UTILITY INTERFERENCES (UI) SECTION of the UI – PAGES. CET items under UI-PAGES are not bid items. Compensation for interference work is a matter of adjustment between the Contractor and each private utility company.</p>

DDC PROJECT #: HWK797W

**PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM
LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE
AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

ATTACHMENT B – REVISIONS TO THE DOCUMENTS

- DDC PASSPort Bid Information revised.
- Volume 1 revised.
- Volume 3 updated
 - EP-7 section added,
 - Davis- Bacon Wages Updated
 - Section UI revised
- Drawings updated
 - C1 (Highway construction drawing #1)
 - C4 (Highway construction drawing #4)

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT C – REVISIONS TO PASSPORT FORMS

This Addendum initiates Round 2 of the procurement.

Please note that numbering of addenda is independent of rounds.

Questionnaire Changes:

Qualification Form Added

Item Grid Changes:

Items added

- 6.75
- UTL-6.01.8 (NG)
- UTL-6.03 (NG)
- UTL-6.03.1 (NG)
- UTL-6.04 (NG)
- UTL-6.05 (NG)
- UTL-6.06 (NG)
- UTL-6.07 (NG)
- UTL-6.09(NG)
- GCS-2WS (NG)

Item Quantity Change

- GI-2.19
- 70.81
- 6.02 AAN

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE


ADDENDA CONTROL SHEET

BID SUBMISSION DATE/ TIME: March 15, 2022; between 8:30 AM and 11:00 AM

BID OPENING DATE/ TIME: March 15, 2022; 11:30 AM

PROJECT No. : HWK797W

TITLE: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK
AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
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ADDENDA ISSUED	NO. OF DWG	DATE	APPROVED BY:	
			SPECS UNIT	GENERAL COUNSEL
#1 Questions from Bidders and Responses to Questions; Revisions to PASSPort Forms; Revisions to Documents	2	3/2/2022		
#2 Revised Bid Opening Date (3/15/2022).		3/7/2022	 3/7/2022	N.A.

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE

3/7/2022

ADDENDUM No. # 2

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

85021B0162- HWK797W

RECONSTRUCTION OF SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

This addendum is issued for the purpose of amending the requirements of the Bid and Contract Documents and is hereby made a part of said Bid and Contract Documents to the same extent as though it were originally included therein.

The bidder is advised that the items listed below apply to the project:

1. **The Bid Opening for the contract described below scheduled for March 8, 2022, at 11:30 AM is rescheduled to March 15, 2022 at 11:30 AM.**
2. **Bidders Questions and Responses to Questions:**
No Attachment A is included with this Addendum.
3. **Revisions to Documents:**
No Attachment B is included with this Addendum.
4. **Revisions to PASSPort forms:**
No Attachment C is included with this Addendum.

Transferring Data Between Rounds of an RFX: A new document titled "Transferring Data Between Rounds of an RFX" has been added to the Documents section of the View RFX tab. Please refer to this document when an addendum has been issued. Note: Whenever an addendum is issued, the RFX item grid will be cleared. You can import the work you have already done by following the steps on this document.

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If additional information is required, please contact the Department of Design and Construction, Contract Section at (718) 391-1041 or by email at CSB_projectinquiries@ddc.nyc.gov.

Richard Jones, PE CWI CDT
Executive Director, Specifications

DDC PROJECT #: HWK797W

**PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM
LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE
AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

None

DDC PROJECT #: HWK797W

**PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM
LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE
AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

ATTACHMENT B – REVISIONS TO THE DOCUMENTS

None

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT C – REVISIONS TO PASSPORT FORMS

This Addendum is included within Round 2 of the procurement.

Please note that numbering of addenda is independent of rounds.

Questionnaire Changes:

None

Item Grid Changes:

None

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE



ADDENDA CONTROL SHEET

BID SUBMISSION DATE/ TIME: March 15, 2022; between 8:30 AM and 11:00 AM

BID OPENING DATE/ TIME: March 15, 2022; 11:30 AM

PROJECT No. : HWK797W

TITLE: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK
AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
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STREET

ADDENDA ISSUED	NO. OF DWG	DATE	APPROVED BY:	
			SPECS UNIT	GENERAL COUNSEL
#1 Questions from Bidders and Responses to Questions; Revisions to PASSPort Forms; Revisions to Documents	2	3/2/2022		
#2 Revised Bid Opening Date (3/15/2022).		3/7/2022		
#3 Questions from Bidders and Responses to Questions; Revisions to PASSPort Forms; Revisions to Documents	5	3/9/2022	 3/9/2022	 3-9-2022

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE

3/9/2022

ADDENDUM No. # 3

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

85021B0162- HWK797W

RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

This addendum is issued for the purpose of amending the requirements of the Bid and Contract Documents and is hereby made a part of said Bid and Contract Documents to the same extent as though it were originally included therein.

The bidder is advised that the items listed below apply to the project:

1. **Bidders Questions and Responses to Questions:**
Attachment A is included with this Addendum.
2. **Revisions to Documents:**
Attachment B is included with this Addendum.
3. **Revisions to PASSPort forms:**
Attachment C is included with this Addendum.

Transferring Data Between Rounds of an RFX: A new document titled "Transferring Data Between Rounds of an RFX" has been added to the Documents section of the View RFX tab. Please refer to this document when an addendum has been issued. Note: Whenever an addendum is issued, the RFX item grid will be cleared. You can import the work you have already done by following the steps on this document.

DDC strongly advises vendors to finalize and submit bids 48 hours prior to due date and time. The City is not responsible for technical issues (e.g. internet connection, power outages, technology malfunction, computer errors, etc.) related to bid submissions.

If additional information is required, please contact the Department of Design and Construction, Contract Section at (718) 391-1041 or by email at CSB_projectinquiries@ddc.nyc.gov.

Richard Jones, PE CWI CDT
Executive Director, Specifications

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
1.	<p>Catch Basin Locations</p> <p>Please reference attached excerpt from the bid drawings sheet 21. The proposed new 12" DIP Catch Basin connections do not currently show the catch basins they will be connected to. Please confirm if these are connecting to proposed or existing catch basins. If they are connecting to proposed catch basins, please confirm the type of catch basin desired at these locations.</p>	<p>Refer to serial number 2, drawing number 21 of 70 of ATTACHMENT B herein this addendum.</p>
2	<p>Quantity for 8" Water Main</p> <p>On Sheet 21 of the bid drawings, the plans depict replacement of 3 Fire Hydrants. These hydrants include replacement of a length of 8" DI Water Main as part of the replacement, as required per DEP Standards. No pay item for furnishing or laying of 8" Water Main is included in the bid schedule. Please advise how these lengths of 8" water main will be measured and paid for.</p>	<p>Refer to item number 60.11 R608, 60.12D08, 61.11DMM08, And 61.12DMM08 ATTACHMENT C herein this addendum.</p>
3	<p>The document size of the bid drawings are shown as 8.5 in x 11 in when printing. As a result, the drawings are blurry, impossible to read, and out-of-scale when printed. To ensure accurate pricing in the bid submissions, we request that the plans be adjusted so it is to scale and will print on larger size paper.</p>	<p>There are no issues when printing the drawings at our end.</p>
4	<p>The utility drawings do not show the new, proposed catch basins. While the new DIP chute connections can be seen, we cannot see the catch basins they are supposed to be connected to. Because the catch basins are not on the drawings, we also don't know what type of new catch basins we're supposed to install. We request revised utility plans that show the catch basins and what type of catch basins they are.</p>	<p>Refer to serial number 2, drawing number 21 of 70 ATTACHMENT B herein this addendum.</p>

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
5	Please provide us details for item 51.71B000000 Modification of Existing Catch Basin. We are trying to price up the modification of existing catch basin in accordance to whatever size, shape and dimension is required for this job but none of this work is shown in the plans. Please provide a detailed drawing or narrative about the extent of this modification including the materials needed and dimensions of the existing structure.	Refer to serial number 2, drawing number 15 of 70 ATTACHMENT B herein this addendum.
6	Refer to item GI-2.19. The quantity of 1.5 LF seems off because the tree pit where the storm water chamber is located is 20 LF long. Please advise where this 1.5 LF length comes from.	Please refer to the DEP GI Standards.
7	Contract drawings reference standard green infrastructure drawings sheets GI-125 & GI-133. Nowhere in the "Reconstruction of Schenck Avenue" contract drawings does it show where these proposed bioswales are. We only see existing swales in the landscaping drawings. Please explicitly show us in the drawings how many new bioswales there are, they type, and the dimensions.	Please refer to the DEP GI Standards.
8	Contract drawings reference standard green infrastructure drawings sheets GI-125 & GI-133. Nowhere in the "Reconstruction of Schenck Avenue" contract drawings does it show hydraulically connected R.O.W Greenstrips or hydraulically connected R.O.W.B perforated pipe. Please tell us where this is, how many you want and the size.	Refer to serial number 2, drawing number 11 and 12 of 70 ATTACHMENT B herein this addendum.

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
9	Refer to item GI-4.15, the quantity seems to be very large. Please tell us exactly where this material goes. Some details show engineered soil, some details show Type D topsoil. Initially we thought the engineered soil and topsoil quantities would be similar, but the topsoil quantity is three times larger. Indicate in the plans where we have the topsoil, how many bioswales need it, and the dimensions please.	From GI Section- No, engineering soil and topsoil are different. Engineered soil is sandier and allows for better infiltration, only rain gardens use engineered soil. Please refer to DEP GI standards for further information.
10	Please provide us the diameter and material type for item GI-5.35 Sleeve for utility crossing. Also, how many crossings? Is this a single 10 LF pipe or multiple sleeves?	Please refer to the DEP GI standards for further information.
11	Please specify if the GI bid items pertain to brand new bioswales or if we are completely replacing existing (8) bioswales as shown in the landscaping set of the contract drawings. See sheet 44 of 70	There are no removal of ROWBS in sheet 44.
12	Please provide work locations and details for item 8.22 D "Three Ply Membrane Waterproofing." This is not shown anywhere in the drawings, and we have a large quantity.	This item will be done when directed by the Engineer.
13	Please provide a spec for items NYCT-7A.1 & 7A.2. We would like to know what waterproofing membrane, asphalt mastic, and waterproofing protection board is required for this work as shown on sheet	Refer to serial number 2, drawing number 22 of 70 ATTACHMENT B herein this addendum.

DDC PROJECT #: HWK797W

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ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
14	In Addendum #1 the Bid Schedule Qty for Item GI-2.19 HDPE Storm Water Chamber increased from 1.5LF to 1,559LF, however there is only 1 GI Practice that has a chamber out of the 8 total GI Practices on the plans. Please advise where are the remaining Qty of HDPE Storm Water Chamber is located on the plans.	Refer to the DEP GI Standards for further information.
15	See item 6.03AA Stripping Pavement Surface (Asphaltic Concrete) – 3,274 SY. Initially we thought that this item covered all the milling of existing asphaltic concrete as shown in the plans but now you have added item 6.75 Grinding Existing Asphaltic Concrete Wearing Course 230 CY which is a similar quantity to item 6.03AA. Which one of the two should the contractor use to capture milling on this project? Please clearly show in the drawings with different hatch marks which needs item 6.03AA and what needs item 6.75.	Refer to item number 6.03AA, Item has been removed, ATTACHMENT C herein this addendum.
16	After reviewing the contract drawings, we have a total of eight (8) bioswale no more than 20 LF long. How is it that we have 1,559 LF of item GI-2.19 HDPE Storm Water Chamber? These chambers are not shown in plan view in the provided contract drawings, and they are only shown inside the bioswale on the Green Infrastructure Standard Drawings sheets GI-107 & GI-108. Please clearly indicate in the drawings where we need to install 1,559 LF of HDPE Storm water chamber along with dimensions. I believe we should have no more than 200 LF of this chamber.	Please refer to the DEP GI Standards for further information.
17	1) We are unable to see where we can install item 4.09 BDA - DEPRESSED STEEL FACED CONCRETE CURB (19" DEEP) on the plans. We request revised drawings that indicate the locations of item 4.09 BDA. 2) There is no pay item for 4.09 AE - STRAIGHT STEEL FACED CONCRETE CURB (19" DEEP), which is needed by the trees. Please advise.	1- These are located in the highway construction drawing showing drop curbs. 2- See item number 4.09 AE, ATTACHMENT C herein this addendum.

DDC PROJECT #: HWK797W

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ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
18	Please provide rim and invert elevation for Shallow Catch Basin 1 as shown on sheet 22 of 70. Or please give us the depth of this structure. Also, can it be precast?	Refer to serial number 2, drawing number 15 of 70, ATTACHMENT B herein this addendum.
19	Please provide rim and invert elevation for cleanout manholes as shown on sheets 24 of 70 and 25 of 70. You only gave us rim elevations and we would like to know the depths of these structures. Also, can they be precast?	Refer to serial number 2, drawing number 24 of 70 and 25 of 70, ATTACHMENT B herein this addendum.
20	Please clarify as to who will be furnishing the traffic sign posts? There are no pay items for this on the bid schedule.	Refer to item number 6.83 AB, ATTACHMENT C herein this addendum.
21	In the bid item list, there are 24" DIP water main pay items. However, we cannot see any indications or locations of the 24" DIP water main work on the plans. We request revised drawings that show where the 24" water main work is located.	Refer to item number 60.11R524, ATTACHMENT C herein this addendum.
22	Some hydrants are shown on the plans as being removed and replaced on existing 20" water mains. However, there are no 20" water main pay items in the bid item list. Please advise.	Refer to item number 60.12D20, ATTACHMENT C herein this addendum.
23	Some hydrants are shown on the plans as being removed and replaced on existing 8" water mains. However, there are no 8" water main pay items in the bid item list. Please advise.	Refer to item number 60.12D08, ATTACHMENT C herein this addendum.
24	1) In the bid schedule, we have the pay item 52.31D08M24 - 8" DUCTILE IRON PIPE SPUR FOR HOUSE CONNECTION ON 24" D.I.P. STORM SEWER. However, there is no pay item in the bid schedule for new 24" D.I.P. Storm Sewers, and we cannot see any proposed 24" D.I.P. Storm Sewers on the plans. Please clarify as to where the 24" D.I.P. sewer is, or if this will be revised in a future addendum. 2) In regard to the pay item 6.03 AA- STRIPPING PAVEMENT SURFACE (ASPHALTIC CONCRETE), we have a bid quantity of 3,274.00 SY. This amount seems incorrect. Please clarify as to whether this is the correct bid quantity for this item.	1) This item will be done when directed by the Engineer. 2) Refer to answer for Question# 15 above.

DDC PROJECT #: HWK797W

**PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM
LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE
AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

ATTACHMENT B – REVISIONS TO THE DOCUMENTS

- 1- Volume 3 updated
 - I-Pages updated; Section NYCT - 7A added.
- 2- Contract drawings revised:
 - Sheet 2 of 70, Table of content (Page 2) was revised to include standard drawing H-1015 – Steel Faced drop curb driveways
 - Sheet 15 of 70, shows a callout for Modification of existing catch basin.
 - Sheet 21 of 70, shows the catch basins and their respective connections.
 - Sheet 24 of 70 and Sheet 25 of 70, shows details of a cleanout manhole along with the inverts.
 - Drawings are legible.

DDC PROJECT #: HWK797W

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ATTACHMENT C – REVISIONS TO PASSPORT FORMS

This Addendum initiates Round 3 of the procurement.

Please note that numbering of addenda is independent of rounds.

Questionnaire Changes:

Bid Schedule revised as follows:

1- Items Added:

- 4.02 AF-R
- 60.11R606
- 60.11R608
- 60.12D08
- 60.12D20
- 60.11R520
- 61.11DMM08
- 61.11DMM20
- 61.12DMM08
- 61.12DMM20
- 6.83 AB
- 6.82 B
- 4.09 AE

2- Items Removed:

- 6.03 AA
- 60.11R524

3- Item Qty., Revised:

- GI-2.19
- 4.02 AG

Item Grid Changes:

None.

NOTE:
THE LATEST REVISIONS OF THE APPLICABLE REFERENCE STANDARDS FOR NYCDOT
AND NYCDP SHALL BE CONSIDERED AS PART OF THESE CONTRACT DOCUMENTS.

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LIST OF STANDARD DRAWINGS

DWG. NO.	DESCRIPTION	AGENCY
EO-13147-B-11	REMOVABLE CURB /SIDEWALK PANEL FOR ACCESS TO MANHOLE OPENINGS	NYCDOT
H-1004	TYPICAL TEMPORARY PEDESTRIAN PASSAGEWAY IN ROADWAY AREA DURING RECONSTRUCTION	NYCDOT
H-1009	CHAIN LINK FENCE DETAILS TENSION WIRES TOP AND / OR BOTTOM	NYCDOT
H-1010	STEEL FACED CURB/STEEL FACING TYPE D	NYCDOT
* 608-01	PEDESTRIAN FACILITIES	NYSDOT
H-1012	TIMBER CURB	NYCDOT
H-1013	ILLUMINATED TIMBER BARRICADE	NYCDOT
H-1014	PEDESTRIAN STEEL BARRICADE	NYCDOT
H-1015	STEEL FACED DROP CURB DRIVEWAYS	NYCDOT
** 608-03	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS	NYSDOT
H-1031	TYPICAL PAVEMENT KEY	NYCDOT
H-1033	TYPICAL RESURFACING ON ASPHALT PAVEMENT &/OR WEARING COURSE (LESS THAN FULL WIDTH)	NYCDOT
H-1034	TYPICAL CONSTRUCTION JOINTS FOR CONCRETE BASE FOR PAVEMENT	NYCDOT
H-1035	REINFORCED CONCRETE CURB & DROP CURB	NYCDOT
H-1040	TRANSVERSE CONSTRUCTION JOINT FOR CONCRETE BASE AND PAVEMENT	NYCDOT
H-1042 A	STANDARD TRENCH RESTORATION/LOCAL LAW #14	NYCDOT
H-1042 C	ROADWAY RESTORATION FOR NEWLY CONSTRUCTED ROADWAYS	NYCDOT
H-1044	CONCRETE CURB	NYCDOT
H-1045	CONCRETE SIDEWALK	NYCDOT
H-1046	STREET TREE PLANTING DETAIL - TYPE I	NYCDOT
H-1047	TYPICAL CURB DETAIL AT EXISTING TREES	NYCDOT
H-1049	PLASTIC BARREL	NYCDOT
H-1050	REINFORCED CONCRETE PAVEMENT CONSTRUCTION DETAIL (4 DWGS)	NYCDOT
H-1053	DETAILS FOR CONSTRUCTION AREA OF ADJUSTMENT AND TRANSITION SECTIONS	NYCDOT
H-1054	LIMITS OF MEASUREMENT FOR PAYMENT OF TEMPORARY ASPHALT PAVEMENT	NYCDOT
H-1055	PAVEMENT KEY TYPE A, B-1, B-2, C	NYCDOT
H-1057	TEMPORARY STORAGE AREA	NYCDOT
MG-480	TYPICAL CROSSWALK	NYCDOT
M608-3	SIDEWALK CURB DETAIL	NYCDOT
M608-5	DETECTABLE WARNING DETAIL	NYCDOT
TAR-1	TYPICAL PAVEMENT MARKING LANE ARROWS	NYCDOT
TWM-1	TYPICAL PAVEMENT MARKING WORD MESSAGES	NYCDOT
TCW-1	TYPICAL PAVEMENT MARKINGS PEDESTRIAN CROSSWALKS AND STRIPING	TRAFFIC
TBI-1	TYPICAL TREATMENTS FOR BICYCLE INTERSECTIONS MARKINGS	TRAFFIC
TIN-1	TYPICAL PAVEMENT MARKINGS INSTALLATION	TRAFFIC
10241-A-Z	HYDRANT VALVE BOX, CAST IRON	NYCDEP
11576-A-Z	FOUNDATIONS FOR VALVE BOXES	NYCDEP
19841-Z-B	STANDARD METHODS FOR RECONSTRUCTING CATCH BASIN CONNECTIONS	NYCDEP
31050-Z	STANDARD METHODS FOR HYDRANT DRAINAGE, 31050-Z SUPERSEDES 11522-Z	NYCDEP
44292-B-Z	GRAVEL OR BROKEN STONE BEDDING AND FILTER FABRIC, INSTALLATION FOR DUCTILE CAST IRON PIPES	NYCDEP
45161-A-Z	STANDARD STEEL HYDRANT FENDERS	NYCDEP

LIST OF STANDARD DRAWINGS

DWG. NO.	DESCRIPTION	AGENCY
SE1	VITRIFIED CLAY PIPE ON CONCRETE CRADLE ON EARTH OR ON ROCK	NYCDEP
SE3	STANDARD FOR CIRCULAR REINFORCED CONCRETE PIPE ON CONCRETE CRADLE ON EARTH OR ON ROCK	NYCDEP
SE11	TYPE A-1 AND TYPE A-2 MANHOLES ON 8" DIAMETER TO 30" DIAMETER PIPE SEWERS IN DRY LOCATION	NYCDEP
SE39	STANDARD FOR 27" DIAMETER CAST IRON MANHOLE FRAME AND COVER (FOR ACCESS OR CLEANOUT)	NYCDEP
SE47	TYPE 1 CATCH BASIN (WITH CURB PIECE)	NYCDEP
SE64	STANDARD FOR RISER ON PRECAST REINFORCED CONCRETE PIPE SEWERS ON CONCRETE CRADLE	NYCDEP
F.D. STD. DWG.141	MANHOLE CONSTRUCTION, POST SETTING AND SUBSIDIARY CONNECTIONS.	FDNY
F.D. STD. DWG.168	INSTALLATION OF FIRE ALARM PEDESTAL BUMPERS.	FDNY
GI-103	STANDARD FOR 20'X5' R.O.W. BIOSWALE TYPE 1A- WITH STONE COLUMNS.	NYCDEP
GI-104	STANDARD FOR 20'X5' R.O.W. BIOSWALE TYPE 1A- WITH STONE COLUMNS	NYCDEP
GI-107	STANDARD FOR 20'X5' R.O.W. BIOSWALE TYPE 1C- WITH STORM WATER CHAMBER	NYCDEP
GI-108	STANDARD FOR 20'X5' R.O.W. BIOSWALE TYPE 1C- WITH STORM WATER CHAMBER	NYCDEP
GI-114	STANDARD FOR 15'X5' R.O.W. BIOSWALE TYPE 2B- WITH STORM WATER INLET	NYCDEP
GI-115	STANDARD FOR 15'X5' R.O.W. BIOSWALE TYPE 2C- WITH STORM WATER CHAMBER	NYCDEP
GI-125	STANDARD FOR HYDRAULICALLY CONNECTED R.O.W.B. PERFORATED PIPE	NYCDEP
GI-133	STANDARD FOR HYDRAULICALLY CONNECTED R.O.W. GREENSTRIPS	NYCDEP

NOTES:

- * NYC DOT STANDARD DRAWING NUMBER H-1011 DATED 7/1/10 (SIDEWALK PEDESTRIAN RAMPS) IS NO LONGER TO BE USED FOR THE PURPOSE OF DETERMINING GEOMETRY, DIMENSIONS, AND TOLERANCES FOR THE CONSTRUCTION OF SIDEWALK RAMPS, NYS DOT STANDARD SHEET 608-01 (PEDESTRIAN FACILITIES) MUST BE USED FOR DETERMINING GEOMETRY, DIMENSIONS, AND TOLERANCES FOR THE CONSTRUCTION OF SIDEWALK RAMPS, EXCEPT THAT TYPE 8 MUST NOT BE USED. ALL REQUIREMENTS OF THE NYC DOT STANDARD HIGHWAY SPECIFICATIONS WILL STILL APPLY; THIS DOES NOT MANDATE OR ALLOW THE USE OF ANY NYS DOT STANDARD SPECIFICATIONS AS AN ALTERNATE UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT DOCUMENTS.
- ** THE CONTRACTOR MUST USE THE NYSDOT 608-03 FOR DRIVEWAY CONFIGURATION AND SLOPES FOR ACCESSIBILITY, WITH THE FOLLOWING MODIFICATION THAT CONCRETE THICKNESS MUST BE 7" THICK.

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID:HWK7W FEDERAL AID NO: X772.7B		DATE: 3/5/21	SHEET 2 OF 70	101/151



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LINDSEY BERKHANN, P.E.
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CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TABLE OF CONTENTS
AND LIST OF STANDARD DRAWINGS

LEGEND

<p>ABANDONED APARTMENT ASPHALT BASEMENT BITUMINOUS BLOCK BLUESTONE BLUESTONE CURB BLUESTONE WALK BOTTOM OF CURB BRICK BUILDING BLDG. BLT. C.I. CAST IRON CENTER LINE CHAIN LINK FENCE CHAMBER CH. CLASS NUMBER COMB. COMM. CONC. CONCRETE CONCRETE CURB CONCRETE WALK DIA. D.B. DOWN DRAWING DUCTILE IRON PIPE D.I.P. EXIST. EXTRA STRENGTH VITRIFIED PIPE E.S.V.P. FIRE ALARM FIRE DEPARTMENT F.L.D. FLAT TOP REINFORCED CONCRETE F.T.R.C. FRAME FR. GRANITE GRAN. C. INTERCEPTOR INT. INVERT ELEVATION INV. IRREGULAR IRR. MANHOLE MH NOT IN CONTRACT N.I.C. NOT TO SCALE N.T.S. PAVEMENT P.V.M.T. POINT OF CURVATURE P.C. POINT OF INTERSECTION P.I. POINT OF TANGENCY P.T. PRECAST REINFORCED CONCRETE P.R.C. R REINFORCED CONCRETE PIPE R.C.P. ROADWAY RDWY. SANITARY SAN. SEWER SWR. SIDEWALK SW. STANDARD STD. STEAM ST. STEEL STL. STEEL FACED CURB SFC. STEEL NOSED CURB S.N.C. STONE STN. STORM STM. STORY STY. TOP OF CURB T.C. TRAFFIC SIGN T.S. VACANT VAC. WORKING POINT W.P. RIGHT OF WAY BIOSWALES</p>	<p>ADJ. APT. ASPH. BSMT. BIT. BLK. B.S. B.S.C. B.S.W. B.C. BRK. BLDG. BLT. C.I. C.L. C.L.F. CH. CL. # COMB. COMM. CONC. C.C. C.W. DIA. D.B. DN. DWG. D.I.P. EXIST. E.S.V.P. F.A. F.D. F.T.R.C. FR. GRAN. GRAN. C. INT. INV. IRR. MH N.I.C. N.T.S. P.V.M.T. P.C. P.I. P.T. P.R.C. R R.C.P. RDWY. SAN. SWR. SW. STD. ST. STL. SFC. S.N.C. STN. STM. STY. T.C. T.S. VAC. W.P. ROWB</p>	<p>MANHOLES ELECTRIC CABLE TV TELEPHONE TRAFFIC NYC MH GAS WATER FIRE DEPT. SUBWAY COAL CHUTE STORM SEWER COMBINED SEWER SANITARY SEWER INTERCEPTOR SEWER UNIDENTIFIED MANHOLE (NO RECORD AVAILABLE) BUILT MANHOLE REPLACED BY NEW MANHOLE CONCRETE RECORD MANHOLE HARDWARE RM EL. & INV. EL. (SEWER, ETC.) BASINS CATCH BASIN WITH CURB PIECE - TYPE 1 CATCH BASIN WITHOUT CURB PIECE - TYPE 2 CATCH BASIN WITHOUT CURB PIECE - TYPE 3 EXISTING CATCH BASIN TO BE REMOVED TO BE ABANDONED TO BE MODIFIED TO BE ADJUSTED CATCH BASIN - NON-STANDARD NEW CATCH BASIN TO BE CONSTRUCTED IN SAME LOCATION AS OLD BASIN INLET HYDRANTS LOW PRESSURE HYDRANT HIGH PRESSURE HYDRANT LOW PRESSURE HYDRANT TO BE RELOCATED HIGH PRESSURE HYDRANT TO BE RELOCATED LOW PRESSURE HYDRANT TO BE ADJUSTED (VERTICALLY) HIGH PRESSURE HYDRANT TO BE ADJUSTED (VERTICALLY) SIAMESE CONNECTION STREET LIGHTING AND TRAFFIC SIGNALS WOOD UTILITY POLE WOOD UTILITY POLE WITH STREET LIGHT WOOD UTILITY POLE WITH TRAFFIC SIGNAL WOOD UTILITY POLE WITH STREET LIGHT AND FIRE ALARM BOX WOOD UTILITY POLE WITH FIRE ALARM BOX WOOD UTILITY POLE WITH PEDESTRIAN SIGNAL WOOD UTILITY POLE WITH TRAFFIC AND PEDESTRIAN SIGNAL WOOD UTILITY POLE WITH STREET LIGHT AND TRAFFIC AND PEDESTRIAN SIGNAL WOOD UTILITY POLE WITH STREET LIGHT AND PEDESTRIAN SIGNAL STREET LIGHT (METAL POLE) STREET LIGHT AND TRAFFIC SIGNAL STREET LIGHT AND TRAFFIC SIGNAL WITH PEDESTRIAN SIGNAL STREET LIGHT WITH PEDESTRIAN SIGNAL STREET LIGHT WITH FIRE ALARM BRACKET TRAFFIC SIGNAL POST TRAFFIC SIGNAL CONTROL BOX STANCHION WITH TRAFFIC SIGNAL STANCHION W/PEDESTRIAN SIGNAL TRAFFIC SIGNAL POST W/PEDESTRIAN SIGNAL</p>	<p>VALVE BOXES GAS WATER STEAM TREES EXISTING TREE (SIZE AS LABELED) EXISTING TREE TO BE REMOVED NEW TREE TO BE PLANTED SHRUB HEDGE (HEIGHT AS LABELED) MISCELLANEOUS VAULT (SIDEWALK) CELLAR WINDOW GRATING CELLAR DOOR SUBWAY GRATING SURFACE WATER FLOW TRAFFIC DIRECTION PARKING METER OIL FILL CAP OR OIL VENT FIRE ALARM POST POLICE CALL BOX MAIL BOX, PUBLIC PHONE COLUMN - FOUNDATION (OF ELEVATED STRUCTURES) HEADER AREA OF ADJUSTMENT LIMIT OF NEW PAVEMENT SIGN (GROUND MOUNTED) SIGN (OVERHEAD) TRAIN STATION ENTRANCE SHAFT TO BUILDING BASEMENT PEDESTRIAN RAMP CURB (CONCRETE UNLESS OTHERWISE INDICATED) CURB WITH DROP CURB (DRIVEWAY) EDGE OF PAVEMENT WITHOUT CURB PROPOSED CONSTRUCTION (TOP OF CURB) ELEVATION AND STATION ROCK OUTCROP NORTH ARROW BARRIERS BEAM TYPE MALL BARRIER PORTABLE PRECAST CONCRETE BARRIER CAST IN PLACE CONCRETE BARRIER RETAINING WALL (W/TYPE) RAILROAD/TROLLEY TRACK FENCE (WITH HEIGHT AND TYPE) CHAIN LINK FENCE IRON PICKET FENCE WIRE FENCE IRON ON CONCRETE COPING WOOD PICKET FENCE GUARD POST BUILDINGS HOUSE NUMBER BLDG TYPE FIRST FLOOR ELEV. (OR) CELLAR ENTR. (OR) GARAGE ENTR. STAIRS OR STOOPS CANOPY</p>	<p>4" WATER MAIN 6" WATER MAIN 8" WATER MAIN 12" WATER MAIN 16" WATER MAIN 20" WATER MAIN 24" WATER MAIN 30" WATER MAIN 36" WATER MAIN 42" WATER MAIN 48" WATER MAIN 54" WATER MAIN 60" WATER MAIN 66" WATER MAIN 72" WATER MAIN 84" WATER MAIN 96" WATER MAIN 30" T.J.D.I. DISCHARGE LINE STORM SEWER (WITH SIZE - LESS THAN 24") STORM SEWER (WITH SIZE - 24" AND GREATER)* SANITARY SEWER (WITH SIZE - LESS THAN 24") SANITARY SEWER (WITH SIZE - 24" AND GREATER)* COMBINED SEWER (WITH SIZE - LESS THAN 24") COMBINED (WITH SIZE - 24" AND GREATER)* INTERCEPTOR SEWER (WITH SIZE - LESS THAN 24") INTERCEPTOR SEWER (WITH SIZE - 24" AND GREATER)* CATCH BASIN CONNECTION GAS LINE (WITH SIZE) STEAM (WITH SIZE) ELECTRIC TELEPHONE CABLE FIRE ALARM OVERHEAD (AERIAL) UTILITY LINE TA SUBWAY CONDUIT LEGAL DATA LOT & BLOCK NUMBER ESTABLISHED/LEGAL GRADE ANGLE BLOCK LENGTH INTERPOLATED/CALCULATED ANGLE OR LENGTH PROPERTY POSSESSION LINE MAPPED PROPERTY LINE (RIGHT-OF-WAY LINE) LOT LINE SURVEY MONUMENT (CITY) - IDENTIFY BY TOPO NUMBER BENCH MARK (LABEL) SURVEY CONTROLS CONTROL SURVEY TRAVERSE CENTER LINE BASE LINE NEW YORK CITY TRANSIT SUBWAY</p>	<p>28 BLOCK 2109 0+00 86°30'48" 167.01' (85.75 m) [86°30'48"] [167.01' (85.75 m)] 1 B M# B M# 10+00 10+00</p>
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DESIGNED RAMA ARSALAN
DRAWN VERICKE HOULKER
CHECKED C. WILKERSON P.E.

SCALE
AS SHOWN

CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE

LINDSEY BERKHAHN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

LEGEND AND ABBREVIATIONS

NO.	DATE	DESCRIPTIONS	BY	APPR'D
		REVISIONS		

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HWK97W FEDERAL AID NO: X772.70	DATE: 3-5-21	SHEET 3 OF 70	LEG 150
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1. GENERAL	2. GRADING WORK	5. DRAINAGE WORK	6. WATERMAIN WORK
1.01 ALL ELEVATIONS SHOWN REFER TO THE NAVD83 DATUM WHICH IS 1.10 FEET ABOVE THE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. SACS SURVEY, AND 1.480 FEET BELOW THE BROOKLYN HIGHWAY DATUM.	2.01 REMOVAL OF ALL SHRUBBERY, DEBRIS, FENCES, AND OTHER ENCROACHMENTS FOUND ON AND WITHIN THE CITY'S RIGHT OF WAY WHICH INTERFERE WITH THE NEW WORK ARE DEEMED INCLUDED IN THE PRICES BID FOR ALL SCHEDULED ITEMS, UNLESS OTHERWISE NOTED ON THE CONTRACT PLANS.	5.01 ALL PROPOSED DRAINAGE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS OF THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (N.Y.C.D.E.P., BUREAU OF SEWERS).	6.01 THE CONTRACTOR SHALL LOCATE ALL EXISTING WATER MAINS VALVE BOX HEADS, AND SHALL INDICATE THEM IN THE FIELD TO THE SATISFACTION OF THE ENGINEER. FURTHERMORE, THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT IT WILL BE RESPONSIBLE FOR THE REPLACEMENT AND RESETTling OF ALL VALVE BOXES WHICH ARE DAMAGED OR DISTURBED AS A RESULT OF ITS OPERATIONS.
1.02 BLOCK INTERIOR ANGLES, BLOCK LENGTHS AND LEGAL GRADES WERE OBTAINED FROM THE FINAL MAPS OF THE BOROUGH OF BROOKLYN.	3. CURB WORK	5.02 ANY MANHOLES WHICH HAVE DAMAGED, WORK OR NON-STANDARD FRAMES AND COVERS SHALL BE PROVIDED WITH NEW TWENTY-SEVEN (27) INCH CASTINGS IN ACCORDANCE WITH THE LATEST STANDARDS OF N.Y.C.D.E.P., BUREAU OF SEWERS. (ITEM NO. 5123 RF).	6.02 EXISTING WATER HYDRANTS ARE TO BE RELOCATED AS SHOWN ON THE CONTRACT PLANS, AS DIRECTED BY THE ENGINEER, AND IN ACCORDANCE WITH THE SPECIFICATIONS OF THE N.Y.C.D.E.P., BUREAU OF WATER SUPPLY.
1.03 EXISTING UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN ON THE CONTRACT PLANS HAVE BEEN DETERMINED BY STANDARD SURVEYING METHODS AND AVAILABLE RECORDS. NEITHER THE EXACT LOCATION NOR THE INFORMATION OF THESE EXISTING UTILITIES IS GUARANTEED TO BE COMPLETE OR CORRECT. CONTRACTOR TO VERIFY IN FIELD AT NO COST TO THE CITY.	3.01 CURBS AND DEPRESSIONED CURBS IN DRIVEWAYS ARE TO BE CONSTRUCTED WHERE SHOWN ON THE CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.	5.03 ANY DAMAGE TO EXISTING SEWERS, MANHOLES, BASINS AND CONNECTIONS CAUSED BY THE CONTRACTORS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE CITY.	6.03 ALL NEW WATERMAIN WORK IS TO BE INSTALLED AS SHOWN ON THE CONTRACT PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE N.Y.C.D.E.P., BUREAU OF WATER & SEWER OPERATIONS.
1.04 BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE COORDINATION. ARRANGEMENTS FOR BUS DIVERSIONS SHALL BE MADE THROUGH:	3.02 ALL NEW STEEL FACED CONCRETE CURBS WITH RADIUS GREATER THAN ONE HUNDRED (100) FEET WILL BE PAID FOR AS STRAIGHT CURB. ALL NEW STEEL FACED CONCRETE CURBS WITH RADIUS LESS THAN OR EQUAL TO ONE HUNDRED (100) FEET WILL BE PAID FOR AS CORNER CURB.	5.04 WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTIONS SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE TWELVE (12) INCHES.	6.04 NO TEXT
1. MS. SARAH WYSS DIRECTOR, SHORT RANGE BUS SERVICE PLANNING MTA NEW YORK CITY TRANSIT 2 BROADWAY, ROOM A1750 NEW YORK, NY 10004 Sarah.Wyss@NYCT.com	3.03 ALL NEW CORNERS ARE TO BE STEEL FACED CONCRETE CURB AND TURNED TO A TWELVE (12) FOOT RADIUS, UNLESS OTHERWISE SHOWN ON THE CONTRACT PLANS OR DIRECTED BY THE ENGINEER. ALL CORNER STEEL FACING IS TO BE SHOP FABRICATED.	5.05 ALL EXISTING SEWER MANHOLES WITHIN THE CONTRACT LIMITS SHALL BE GRADED, AS NECESSARY, SO THAT THEY WILL BE FLUSH WITH THE FINISHED GRADES AFTER COMPLETION OF THE WORK. THE COST OF RASING OR LOWERING CITY OWNED MANHOLE, BASIN, AND INLET HEADS TO PROPOSED GRADES WILL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED ITEMS WHEN THE VERTICAL UPWARD MOVEMENT OF ALL HEADS IS TWENTY-FOUR (24) INCHES OR LESS, WHEN THE VERTICAL DOWNWARD MOVEMENT OF MANHOLE HEADS IS SIX (6) INCHES OR LESS, AND WHEN THE VERTICAL DOWNWARD MOVEMENT OF BASIN HEADS IS THREE (3) INCHES OR LESS, UNLESS OTHERWISE PROVIDED OR DIRECTED. AND WHERE THE ADJUSTMENT IS WITHIN THE BROOKLYN LIMIT, WHEN THE EXISTING STRUCTURE CONSISTS OF A BRICK CHIMNEY OR A CONCRETE ROOF SLAB OR BRICK OR CONCRETE WALLS, THE MAXIMUM ALLOWABLE HEIGHT OF BRICK, AFTER ADJUSTMENT, SHALL BE TWENTY-FOUR (24) INCHES. ALL OTHER ADJUSTMENTS WILL BE PAID FOR UNDER THE APPROPRIATE MANHOLE, BASIN, OR INLET MODIFICATION ITEMS.	6.05 FOR WATER MAINS CROSSING EXISTING SEWERS: WHEREVER THE CLEARANCE BETWEEN THE TOP OF AN EXISTING SEWER AND THE BOTTOM OF THE PROPOSED WATERMAIN, AT THEIR CROSSING, IS LESS THAN ONE (1) FOOT, THE WATERMAIN IS TO BE SUPPORTED BY A TRUSS ARRANGEMENT AND THE CLEARANCE SPACE IS TO BE FILLED WITH LAYERS OF COMPRESSIBLE MATERIAL TO AVOID EXCESSIVE BEARING PRESSURE ON THE SEWER PIPE. IN NO CASE, HOWEVER, SHOULD THIS CLEARANCE BE LESS THAN SIX (6) INCHES.
1.05 ALL COMMUNICATIONS AND COORDINATION MEETINGS RELATIVE TO THIS PROJECT BETWEEN THE CONTRACTOR AND ANY AGENCY, UTILITY COMPANY OR ORGANIZATION WILL BE CONDUCTED AND/OR APPROVED BY THE ENGINEER.	3.04 WHEN NEW CURBING IS TO BE EXTENDED INTO CROSS STREETS, IT SHALL BE STEEL FACED CONCRETE CURB, UNLESS OTHERWISE SHOWN ON THE CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER. WHERE CURB BEYOND THE CORNER IS NOT STEEL FACED CONCRETE CURB, STEEL CURB IS TO BE EXTENDED TO CLEAR PEDESTRIAN RAMPS AND/OR TO THE NEW CATCH BASINS AS CONSTRUCTED. CLEAR OF THE PEDESTRIAN CROSSWALK AS DIRECTED BY THE ENGINEER. THE COST OF THE ADDITIONAL TANGENT LENGTH OF STEEL FACED CONCRETE CURB WILL BE PAID FOR UNDER ITEM NO. ITEM 4.09 CEC.	5.06 ALL EXISTING SEWERS, MANHOLES, BASINS, AND CONNECTIONS WITHIN THE LIMITS OF THIS CONTRACT AND CONTIGUOUS THERETO ARE TO BE REPAIRED, IF DAMAGED, REFER TO ITEM #5171M0000.	6.05 ALL HORIZONTAL CLEARANCE BETWEEN NEW WATER MAINS INSTALLED PARALLEL TO EXISTING SEWERS ARE TO CONFORM TO THE FOLLOWING: A. HORIZONTAL CLEARANCE BETWEEN THE OUTSIDE OF NEW WATER MAINS AND CENTER LINE OF SEWER SHALL NOT BE LESS THAN SIX (6) FEET PLUS ONE HALF SEWER DIAMETER, WHERE THE DEPTH TO THE BOTTOM OF THE SEWER GRADLE IS LESS THAN TEN (10) FEET. B. WHERE THE DEPTH TO THE BOTTOM OF SEWER GRADLE IS TEN (10) FEET OR MORE, THE HORIZONTAL CLEARANCE SHALL BE INCREASED BY ONE (1) FOOT FOR EACH ADDITIONAL FIVE (5) FEET OF DEPTH OVER THE TEN (10) FEET, OR PORTION THEREOF.
1.06 NEW YORK CITY MAINTENANCE NOTE: ALL WORK DONE UNDER THIS CONTRACT WHEN COMPLETED WILL BE MAINTAINED BY THE CITY OF NEW YORK IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION AGREEMENT WITH THE CITY OF NEW YORK FOR MAINTENANCE OF IMPROVEMENTS OF THE STATE ARTERIAL HIGHWAYS SYSTEM FUNDED UNDER THE NEW YORK PAUL TOPPES, TITLE II PROGRAMS DATED FEBRUARY 3, 1997, OR ANY OTHER FEDERAL AID MADE AVAILABLE BY TITLE 23, U.S.C. ALL EXISTING SANITARY AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, COMMISSIONER, WATER MAINS, HYDRANTS, AND OTHER MUNICIPAL OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE RIGHT-OF-WAY (ROW) WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PERFORMED UNDER THE PROJECT, WHETHER CROSSING LOCATED WITHIN OR ADJACENT TO THE ROW, WILL BE MAINTAINED, AS THE CASE MAY BE, BY THE MUNICIPALITY, OR BY THE AGENCY OR UNIT HAVING CONTROL OR JURISDICTION THEREOF, AT NO COST OR EXPENSE TO THE STATE. APPROVED PURSUANT TO THE ABOVE REFERENCE AGREEMENT AND WITH THE UNDERSTANDING THAT THE STATE WILL NOT FURNISH MAINTENANCE PAYMENTS.	3.05 WHERE NEW CURBING IS REQUIRED ADJACENT TO EXISTING CONCRETE SIDEWALK, WHICH IS NOT TO BE REPLACED, A CONCRETE SAW-CUT SHALL BE MADE ALONG A LINE PARALLEL TO AND TWO (2) FEET BACK FROM THE NEW CURB. THE COST OF THE SAWCUT IS INCLUDED IN THE PRICES BID FOR THE CURB ITEMS. THE COST OF THE REPLACED SIDEWALK SHALL BE PAID UNDER THE APPROPRIATE ITEMS.	5.07 ALL EXISTING BASINS AND CONNECTIONS WITHIN THE LIMITS OF THIS CONTRACT AND CONTIGUOUS THERETO ARE TO BE CLEANED, FLUSHED AND OTHERWISE MADE OPERABLE TO THE SATISFACTION OF THE ENGINEER (ITEM NO. 630). WHERE THE EXISTING BASIN CONNECTIONS ARE REQUIRED TO BE DAMAGED OR IN DETERIORATING CONDITION THEY SHOULD BE REPLACED WITH NEW TWELVE (12) INCH DIAMETER DUCTILE IRON PIPE IN ACCORDANCE WITH THE N.Y.C.D.E.P., BUREAU OF SEWERS STANDARDS (ITEM NO. 5211D12).	6.06 WHERE A HYDRANT TO BE RELOCATED OR RESET IS NOT OF A BREAKAWAY TYPE, IT SHALL BE REPLACED WITH A BREAKAWAY TYPE HYDRANT.
1.07 NO TEXT	4. SIDEWALK WORK	5.08 CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO A SANITARY SEWER. CATCH BASINS SHALL NOT BE LOCATED WITHIN PEDESTRIAN CROSSWALKS.	6.07 THE CONTRACTOR SHALL ADJUST ALL HYDRANT VALVE BOXES AND MAIN LINE VALVE BOXES TO THE NEW GRADE AT NO COST TO THE CITY.
1.08 ALL SHEETING PLACED UNDER THIS CONTRACT, NO MATTER UNDER WHICH ITEMS, SHALL BE REMOVED, AND THE COST SHALL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL SCHEDULED ITEMS.	4.01 SIDEWALK PEDESTRIAN RAMPS WITH EMBEDED PREFORMED DETECTABLE WARNING UNITS ARE TO BE INSTALLED AT ALL CORNERS, UNLESS OTHERWISE DIRECTED. THE COST FOR INSTALLATION OF PEDESTRIAN RAMPS SHALL BE PAID FOR UNDER THE SIDEWALK AND CURB ITEMS, AS APPLICABLE. THE COST FOR THE EMBEDED PREFORMED DETECTABLE WARNING UNITS SHALL BE PAID UNDER ITEM NUMBER 4.13 DE.	5.09 ALL NEW CATCH BASIN CONNECTIONS SHALL BE MADE TO EXISTING SEWERS AT MANHOLES, WITH TWELVE (12) INCH DIAMETER DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-OUT" JOINTS LAD ON SIX (6) INCHES OF BROKEN STONE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD, UNWEATHERED STONE, UNIFORMLY GRADED FROM 1/4" TO 3/4" IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLET PIPE.	6.08 THE CONTRACTOR SHALL PROVIDE AND INSTALL HYDRANT FENDERS (ITEM #2.14 FS) AT ALL HYDRANTS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE N.Y.C.D.E.P. BUREAU OF WATER SUPPLY STANDARDS.
1.09 THE FOLLOWING SHALL PERTAIN TO ALL ITEMS HAVING BACKFILL AS PART OF THE WORK: "THE BACKFILLING SHALL COMPLY WITH SUBSECTION 4.11.3 OF THE STANDARD HIGHWAY SPECIFICATIONS VOLUME OF II, AND THE COST THEREOF SHALL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL RELATED ITEMS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE CONTRACT PLANS."	4.02 THE LOCATION AND THE EXTENT OF NEW SIDEWALK TO BE CONSTRUCTED IS AS SHOWN ON THE CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.	5.10 ALL CATCH BASINS SHALL BE TYPE 1 UNLESS OTHERWISE INDICATED ON THE CONTRACT PLANS. ALL CATCH BASIN SHALL BE INSTALLED EIGHT (8) INCHES BELOW TOP OF CURB.	6.09 THE CONTRACTOR SHALL NOTIFY THE N.Y.C.D.E.P., BUREAU OF WATER & SEWER OPERATIONS 72 HOURS PRIOR TO THE START OF HYDRANT WORK.
1.10 ALL HYDRANTS, LIGHT POLES, TREES OR OTHER FIXED OBJECTS THAT ARE TO BE CONSTRUCTED, PLANTED, RESET, OR RELOCATED AS A RESULT OF THE PROJECT SHALL BE CONSTRUCTED OR PLANTED SO AS TO PROVIDE AT LEAST ONE AND ONE HALF (1 1/2) FOOT CLEAR DISTANCE FROM THE FACE OF THE CURB TO THE FACE OF THE OBJECT.	4.03 THE CONTRACTOR IS HEREBY ADVISED THAT UNDER-SIDEWALK BUILDING VAULTS ARE PRESENT IN THE SIDEWALK AREA WITHIN THE PROJECT LIMITS.	5.11 SLOPE ON ALL NEW CATCH BASIN CONNECTIONS SHALL BE A MINIMUM OF 1/2% AND A MAXIMUM OF 4%, PROVIDED THE TOTAL DROP BETWEEN BASIN AND BASIN MANHOLE SHALL BE AT LEAST SIX (6) INCHES.	6.10 NO TEXT
1.11 AS A RESULT OF CURB RELOCATION WITHIN THE CONTRACT LIMITS, EXISTING STREET APPURTENANCES PROJECTING ABOVE PAVED SURFACES, SUCH AS HYDRANTS, LAMPPOSTS AND TRAFFIC SIGNAL POLES, BUS SHELTERS, ETC., WILL HAVE TO BE RELOCATED. NOT WITHSTANDING ANY CONSTRUCTION SEQUENCE AS DEFINED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PLAN HIS CONSTRUCTION OPERATIONS TO INSURE THAT THESE APPURTENANCES ARE CONSTRUCTED OR RELOCATED IN CONJUNCTION WITH THE INSTALLATION OF THE NEW CURB. IN PARTICULAR, IN THE EVENT THE SIDEWALK IS WIDENED, THE STREET APPURTENANCES SHALL BE MAINTAINED AT THEIR EXISTING LOCATION BEHIND THE EXISTING CURB UNTIL THE NEW SIDEWALK IS CONSTRUCTED. IF THE SIDEWALK IS NARROWED, THE STREET APPURTENANCES MUST BE MOVED TO THEIR NEW LOCATIONS BEHIND THE PROPOSED NEW CURB PRIOR TO REMOVAL OF THE EXISTING CURB. ACCESS MUST BE MAINTAINED BY INSTALLING AND ENERGIZING NEW APPURTENANCES OR BY USING TEMPORARY APPURTENANCES, AS DIRECTED BY THE ENGINEER. UNLESS OTHERWISE PROVIDED FOR, ALL TEMPORARY APPURTENANCES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CITY.	4.04 PRIOR TO ANY SIDEWALK EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE OF UNDER-SIDEWALK BUILDING VAULTS AT NO COST TO THE CITY.	5.12 WHERE THE CONTRACT PLANS SPECIFY A NEW CATCH BASIN IN THE SAME LOCATION AS THE EXISTING CATCH BASIN AND THE CONTRACTOR ELECTS, FOR ITS OWN CONVENIENCE, TO RELOCATE THE NEW CATCH BASIN ADJACENT TO THE PRE-EXISTING LOCATION WHILE MAINTAINING BASIN AND PIPE CONNECTION, THE CONTRACTOR SHALL PERFORM ALL WORK ASSOCIATED WITH ABANDONING THE EXISTING BASIN, AS PER SECTIONS 1.1 OF THE STANDARD SEWER SPECIFICATIONS, AND THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST BID FOR NEW BASINS, AND MANHOLES UNLESS OTHERWISE NOTED ON THE CONTRACT PLANS.	6.11 NO TEXT
	4.05 THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO THE UNDER-SIDEWALK BUILDING VAULTS AND/OR ITS CONTENTS AND/OR OCCUPANTS DUE TO HIS FAILURE TO VERIFY THE PRE-EXISTING VAULT CONDITION.	5.13 ALL EXISTING SEWER HOUSE CONNECTIONS SHOULD BE CONTINUOUSLY MAINTAINED DURING ALL STAGES OF CONSTRUCTION. IF ANY HOUSE CONNECTION MUST BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW MUST BE MAINTAINED BY FLOWING OR OTHER SUITABLE MEANS AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER THAT NO BACKUPS OCCUR. ANY AND ALL EXISTING SEWERS, HOUSE CONNECTIONS OR OTHER SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MUST BE DISTURBED FOR CONSTRUCTION PURPOSES, SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK AND ANY DAMAGE DONE AS A RESULT OF THE WORK SHALL BE REPAIRED AT NO COST TO THE CITY.	6.12 NO TEXT
	4.06 VAULT INFORMATION MAY BE AVAILABLE FROM THE FOLLOWING SOURCES: A. NEW YORK CITY DEPARTMENT OF BUILDINGS B. FOIL/RECORDS ACCESS OFFICE OF LITIGATION SERVICES AND RECORDS MANAGEMENT NYC DEPARTMENT OF TRANSPORTATION 35 WATER STREET, 4TH FLOOR NEW YORK, NY 10004 C. NEW YORK CITY DEPARTMENT OF FINANCE	5.14 CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID CLOGGING CATCH BASINS WITH DEBRIS DURING THE CONTRACTORS OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A CLOGGING CONDITION OCCURS OR IN THE EVENT THE CONTRACTORS OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT ITS OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE CITY.	6.13 NO TEXT
	4.07 THE CONTRACTOR SHALL RESET/ADJUST ANCHORAGE FOR SECURITY GATES WITHIN SIDEWALK AREAS, AS NECESSARY OR AS DIRECTED BY THE ENGINEER. COST OF THIS WORK SHALL BE DEEMED INCLUDED IN PRICES BID FOR SIDEWALK WORK.	5.15 NO TEXT	6.14 NO TEXT
	4.08 AT ALL PROPOSED BUS PAVES, NEW CONTINUOUS SIDEWALK SHALL BE CONSTRUCTED FOR THE ENTIRE LENGTH OF THE BUS PAD, FROM THE CURB LINE TO THE PROPERTY LINE/ENCE LINE OR AS DIRECTED BY THE ENGINEER.		
	4.09 NOTICE MUST BE GIVEN AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF WORK TO THE UNITED STATES POST OFFICE FOR ALL MAIL AND STORAGE BOXES WITHIN THE PROJECT BOUNDARIES REQUIRING TEMPORARY RELOCATION. THE CONTRACTOR MUST COORDINATE TEMPORARY AND FINAL RELOCATION WITH.		
	4.10 NO TEXT		
	4.11 VALUES FOR DESIGN AND LAYOUT OF PEDESTRIAN FACILITIES SHALL BE IN COMPLIANCE, TO THE GREATEST EXTENT PRACTICABLE, WITH NYSDOT EDITION 15.004 "DESIGN, CONSTRUCTION AND INSPECTION OF PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY". CONSTRUCTED FACILITIES SHALL MEET STANDARDS IN THE 2011 "PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY" (PROWAG), OR BE JUSTIFIED IN ACCORDANCE WITH THE NYSDOT HIGHWAY DESIGN MANUAL, CHAPTER 2.28. IF CONSTRUCTED FACILITIES DO NOT MEET STANDARDS AND ARE NOT AS TESTED, THE FACILITIES WILL NEED TO BE REMOVED AND RECONSTRUCTED TO MEET CURRENT STANDARDS AT THE CONTRACTORS EXPENSE		

 Department of Design and Construction	DESIGNED: RANA ARSALAN	SCALE: AS SHOWN	CORENZO WILKERSON, P.E. ENGINEER-IN-CHARGE
	DRAWN: VERNICE HOLLER	CHECKED: C. WILKERSON, P.E.	LINSEY BERNHARD, P.E. DIRECTOR
	CADD FILE:		

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

GENERAL NOTES - I

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT: 61HW009W FEDERAL AID NO. X772.26		DATE: 3-25-21	SHEET 4 OF 70	61/63

IN HOUSE DESIGN

7. TRAFFIC WORK

7.01 "REGULATORY" AND/OR "NO STANDING" CONSTRUCTION SIGNS USED DURING THE CONSTRUCTION PERIOD ARE TO BE FURNISHED BY THE CONTRACTOR, AS REQUIRED. THE CONTRACTOR SHALL INSTALL THESE SIGNS WHERE DIRECTED BY THE ENGINEER, AND, WHEN NO LONGER REQUIRED, SHALL CAREFULLY REMOVE THESE SIGNS AND DELIVER THEM TO THE BUREAU OF TRAFFIC. THESE SIGNS WILL BE MEASURED FOR PAYMENT UNDER ITEM NO. 6.26 (RS). THE COST OF SAID REMOVALS AND DELIVERING SHALL BE DEDUCTED INCLUDED IN THE PRICE BID FOR ITEM NO. 6.26 (RS). A CREDIT OF \$50 WILL BE TAKEN FOR EACH SIGN NOT SO DELIVERED. RELOCATION OF SIGNS SHALL NOT ENTITLE THE CONTRACTOR TO ADDITIONAL PAYMENT. PRIOR TO CONSTRUCTION COMPLETION, CONTRACTOR SHOULD REINSTALL ALL EXISTING PRE-CONSTRUCTION SIGNS REMOVED DURING CONSTRUCTION.

7.02 THE CONTRACTOR SHALL NOTIFY THE NEW YORK CITY DIVISION OF TRANSPORTATION PLANNING AND MANAGEMENT, GEOMETRIC DESIGN UNIT AT GEOMETRICDESIGN@DOT.NY.C.GOV, TO VERIFY DESIGN OF ALL PAVEMENT MARKINGS TO BE INSTALLED, FOURTEEN (14) CALENDAR DAYS PRIOR TO THE START OF WORK ON PAVEMENT MARKINGS. NOTIFICATION SHALL INCLUDE CONTACT INFORMATION, DESCRIPTION OF PROJECT AREA, AND FINAL APPROVED MARKING DRAWINGS WITH ALL APPLICABLE FIELD CHANGES INCORPORATED, IF AVAILABLE.

7.03 THE CONTRACTOR SHALL NOTIFY NYCDOT TEN (10) DAYS PRIOR TO THE START OF WORK TO HAVE PARKING METERS REMOVED. CONTRACTOR SHALL CONTACT NYC DEPARTMENT OF TRANSPORTATION, DIVISION OF TRAFFIC OPERATIONS, 34-02 QUEENS BLVD., 1ST FLOOR, LIC 11-01, PHONE NUMBER: (212) 839-3215, EMAIL: AUTHORIZEDPARKING@DOT.NY.C.GOV. THE FOLLOWING INFORMATION MUST BE GIVEN TO NYCDOT: (1) PARKING METER NUMBERS, (2) LOCATION OF METERS, AND (3) DATE WHEN METERS CAN BE RE-INSTALLED.

7.04 ALL REGULATORY AND WARNING TRAFFIC SIGNS SHALL CONFORM WITH THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION'S STANDARDS AND MOST UP TO DATE SIGNAGE.

7.05 PARKING METERS SHALL NOT BE REMOVED OR RELOCATED BY THE CONTRACTOR. ANY WORK RELATED TO PARKING METERS MUST BE PERFORMED BY THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION (NYCDOT). CONTRACTOR SHALL INFORM NYCDOT VIA PHONE AT (212) 839-3215 OR (212) 839-3251 AND SUBMIT VIA EMAIL ALL PERTINENT DRAWINGS, AND PROPOSALS THAT REQUIRE THE REMOVAL/RELOCATION OR RE-INSTALLATION OF PARKING METERS IN THE PROJECT AREA AT LEAST TWO (2) WEEKS PRIOR TO THE COMMENCEMENT DATE. IN ADDITION, UPON COMPLETION OF THE CONTRACTED WORK, A REQUEST FOR RE-INSTALLATION OF THE PARKING METER MUST ALSO BE MADE TO NYCDOT AT THE NUMBERS PROVIDED, AT LEAST ONE (1) WEEK PRIOR TO THE END OF CONSTRUCTION.

7.06 FOR ADDITIONAL NOTES ON MAINTENANCE OF TRAFFIC SEE THE MAINTENANCE AND PROTECTION OF TRAFFIC DRAWINGS FOR THIS CONTRACT.

8. BIKE RACKS/BIKE CORRALS / STREET SEATS/ CITY BENCH/ LEANING BARS/MARTELO BOLLARDS

8.01 THE FOLLOWING CONTACT INFORMATION SHALL BE USED FOR ALL NOTICES:
PHONE NUMBER: (212) 839-4699
EMAIL: PUBLICSPACESSTREETFURNITURE@DOT.NY.C.GOV

8.02 EXISTING BIKE RACKS, BIKE CORRALS, STREET SEATS, CITY BENCHES, LEANING BARS, AND MARTELO BOLLARDS ("STREET FURNITURE") SHALL NOT BE REMOVED OR RELOCATED BY THE CONTRACTOR. ANY WORK RELATED TO EXISTING STREET FURNITURE MUST BE PERFORMED BY THE DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL INFORM DOT VIA THE CONTACT INFORMATION PROVIDED ABOVE. THE CONTRACTOR SHALL SUBMIT BY EMAIL ALL PERTINENT DRAWINGS AND PROPOSALS THAT REQUIRE THE REMOVAL/RELOCATION OR RE-INSTALLATION OF STREET FURNITURE WITHIN THE PROJECT AREA AT LEAST THREE (3) WEEKS PRIOR TO THE COMMENCEMENT DATE. IN ADDITION, UPON COMPLETION OF THE CONTRACTED WORK, A REQUEST FOR RE-INSTALLATION OF THE STREET FURNITURE MUST ALSO BE MADE TO DOT AT THE NUMBER PROVIDED, AT LEAST THREE (3) WEEKS PRIOR TO THE END OF CONSTRUCTION.

8.03 IF THE CONTRACTOR REMOVES OR RELOCATES EXISTING STREET FURNITURE WITHOUT THE PERMISSION OF DOT, THE CONTRACTOR SHALL BE REQUIRED TO DELIVER UNDAMAGED PROPERTY TO A LOCATION SPECIFIED BY DOT AT THE CONTRACTORS SOLE COST. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPLACING ANY DAMAGED AND/OR LOST STREET FURNITURE AT NO ADDITIONAL COST TO THE CITY.

8.04 THE CONTRACTOR SHALL NOTIFY DOT AT THE ADDRESSES PROVIDED ABOVE UPON INSTALLATION OF NEW STREET FURNITURE PER THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL REQUEST DOT TO INSPECT ALL STREET FURNITURE INSTALLATIONS AND SHALL OBTAIN WRITTEN APPROVAL FROM DOT.

9. CITY BIKE STATIONS

9.01 NO TEXT

9.02 NO TEXT

9.03 NO TEXT

10. FIRE ALARM WORK

10.01 THE CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT'S BUREAU OF FACILITIES MANAGEMENT, PLANT OPERATIONS ENGINEERING UNIT, TELEPHONE: (718) 281-3846 OR (718) 281-3833, AT LEAST ONE (1) MONTH IN ADVANCE OF STARTING CONSTRUCTION AND TO MAKE AN APPOINTMENT TO PICK UP OPEN BASE MAPS AT 316 Sgd. BEERS AVENUE, FORT TOTTEN, BAYSIDE, QUEENS 11359.

10.02 ALL EXISTING FIRE DEPARTMENT COMMUNICATION FACILITIES SHALL BE PROTECTED AND PROVISIONS MADE FOR THEIR CONTINUOUS OPERATION DURING CONSTRUCTION. ALL ALARMS, BOXES AND POSTS MUST REMAIN ACCESSIBLE. IF DUE TO THE CONTRACTORS OPERATION, FIRE ALARM SERVICE IS INADVERTENTLY INTERRUPTED OR FIRE COMMUNICATION SYSTEM EQUIPMENT OR FACILITIES ARE DAMAGED, THE CONTRACTOR WILL BE HELD RESPONSIBLE AND SHALL REPLACE THEM AT HIS/HER OWN EXPENSE AND IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.

10.03 TO REQUEST STREET MARKOUTS OF FIRE COMMUNICATIONS UNDERGROUND FACILITIES, THE CONTRACTOR MUST CONTACT PLANT OPERATIONS ENGINEERING AT (718) 281-3846 OR (718) 281-3833 AT LEAST ONE (1) MONTH PRIOR TO COMMENCEMENT OF WORK.

10.04 ALL FIRE DEPARTMENT WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REGULATIONS, SPECIFICATIONS AND STANDARDS OF THE NEW YORK CITY FIRE DEPARTMENT. UNDER THE DIRECTION OF THE FIRE DEPARTMENT ENGINEER AND THE SUPERVISION OF THE RESIDENT ENGINEER.

10.05 THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ALL NECESSARY FIRE DEPARTMENT FACILITIES, CONDUITS, CABLES, ETC., UNDER THE APPROPRIATELY SCHEDULED ITEMS. ANY OBSTRUCTION ENCOUNTERED IN PULLING THE CABLE SHALL BE CLEARED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE F.D.N.Y. COMMUNICATIONS ELECTRICIANS WILL PERFORM THE LIVE SPLICING OPERATIONS IN MANHOLES AND MAKE ALL TRANSFERS OF ALARM BOXES AND/OR AERIAL CABLES.

10.06 THE CONTRACTOR MUST CONTACT EMPIRE CITY SUBWAY OR VERIZON FOR ANY POINT OF ENTRIES (P.O.E.'S) INTO THEIR MANHOLES AND OBTAIN WALL MARKOUTS BY THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL P.O.E. AND CONVERSION INSPECTIONS.

10.07 ANY REQUIRED FIRE ALARM POST, SUBBASE AND HARDWARE, WIRE TERMINAL BOXES AND FIRE ALARM CABLES MUST BE PURCHASED AND PICKED UP FROM THE FIRE DEPARTMENT STOREHOUSE, 87 UNION STREET, BROOKLYN, N.Y. 11231-1416. PRIOR TO BIDDING, THE CONTRACTOR SHALL CONTACT PLANT OPERATIONS ENGINEERING AT (718) 281-3846 OR (718) 281-3833 FOR THE LATEST MATERIAL COST OF FIRE COMMUNICATIONS ITEMS. THE CONTRACTOR SHALL ALSO NOTIFY THE FIRE DEPARTMENTS PLANT OPERATIONS ENGINEERING UNIT, TELEPHONE: (718) 281-3846 OR (718) 281-3833, AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE TO ARRANGE FOR PICKUP OF MATERIALS PURCHASED FROM THE FIRE DEPARTMENT. PICKUP HOURS ARE BETWEEN 08:30AM AND 12:30PM.

10.08 THE ELECTRICAL SUBCONTRACTOR MUST MAKE AN APPOINTMENT WITH PLANT OPERATIONS ENGINEERING TO ATTEND A BRIEF TUTORIAL ON TERMINAL FIRE ALARM CABLES TO TERMINAL BOXES.

10.09 OLD DEACTIVATED FIRE ALARM POSTS AND UNUSED CABLE REELS SHALL BE RETURNED TO THE FIRE DEPARTMENT STOREHOUSE BY THE CONTRACTOR AFTER MAKING AN APPOINTMENT WITH THE FD PLANT OPERATIONS ENGINEERING OFFICE.

10.10 AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO FIRE ALARM FACILITIES, ONE HARD COPY AND ONE ELECTRONIC COPY (PDF FORMAT) OF PROPOSED UTILITY PLAN SHEETS AND/OR SKETCHES OF "AS-BUILT" CHANGES MUST BE PROVIDED TO THE BUREAU OF FACILITIES MANAGEMENT, PLANT OPERATIONS ENGINEERING OFFICE AT 316 Sgd. BEERS AVENUE, FORT TOTTEN, BAYSIDE, QUEENS 11359.

11. OTHER UTILITIES WORK

11.01 THE CONTRACTOR IS ALERTED TO THE RULES AND REGULATIONS OF INDUSTRIAL CODE RULE 53 AND IS DIRECTED TO COMPLY. THE CITY SHALL NOT BE LIABLE FOR ANY COSTS INCURRED BY THE CONTRACTOR AS A RESULT OF THE COMPLIANCE. NON-COMPLIANCE OR IMPROPER COMPLIANCE BY THE FRANCHISED OPERATORS OF UNDERGROUND FACILITIES, WITH SUB-PART 53.3 OF RULE 53 OF THE INDUSTRIAL CODE.

11.02 CON-EDISON, NATIONAL GRID, ALTICE, SPECTRUM, AND EMPIRE CITY FACILITIES ARE LOCATED WITHIN THE PROJECT LIMITS. AS A RESULT OF THIS PROJECT, THESE PRIVATE UTILITIES WILL BE REQUIRED TO PROTECT, REMOVE, REPLACE OR RELOCATE SOME OR ALL OF THEIR FACILITIES. THIS WORK WILL BE PERFORMED BY THEM OR THEIR AGENTS AT THEIR EXPENSE. CONTRACTOR TO COORDINATE ACTIVITIES WITH THEM.

11.03 ALL UTILITY POLES WILL BE REMOVED AND/OR RELOCATED BY OTHERS.

11.04 THE ENGINEER WILL CONTACT THE SPECIAL PROJECT UNIT COMMUNICATIONS DIVISION OF THE POLICE DEPARTMENT (212) 374-5900 IF ANY RELOCATION OR DISCONNECTION OF POLICE DEPARTMENT FACILITIES IS REQUIRED.

12. PAVEMENT WORK

12.01 ALL HEADERS ABUTTING NEW PAVEMENT SHALL BE REMOVED WHERE DIRECTED BY THE ENGINEER. THE PRICE OF WHICH SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION.

12.02 ASPHALTIC CONCRETE MIXTURE IS TO BE USED IN THE AREAS OF ADJUSTMENT, AND AS DIRECTED BY THE ENGINEER (SEE ITEM NO. 4.02 CB).

12.03 FINISHED ROADWAY PAVEMENT AT THE APEX OF ALL CORNERS SHALL BE CONSTRUCTED TO ELEVATIONS TO PROVIDE POSITIVE SURFACE DRAINAGE FROM THE APEX TOWARDS THE CATCH BASINS, WHERE APPLICABLE.

13. LANDSCAPE WORK

13.01 REPLACEMENT TREES SHALL BE PLANTED WITHIN THE PROJECT AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTION 4.16 OF STANDARD HIGHWAY SPECIFICATIONS.

13.02 THE CONTRACTOR SHALL OBTAIN THE NECESSARY TREE PLANTING PERMIT FROM THE NYC DEPARTMENT OF PARKS AND RECREATION (DPR) PRIOR TO THE START OF WORK. ALL NECESSARY TREE PLANTING SHALL BE PERFORMED BY QUALIFIED ARBORISTS.

13.03 NO TREE SHALL BE REMOVED BY THE CONTRACTOR UNTIL IT IS SPECIFICALLY ORDERED IN WRITING TO DO SO BY THE ENGINEER. EVERY CONSCIONABLE EFFORT IS TO BE MADE TO SAVE TREES BY THE USE OF THE CURB DETAIL AT EXISTING TREES, BY SLIGHT MODIFICATION IN CURB ALIGNMENT, OR BY OTHER METHODS SO ORDERED BY THE ENGINEER, IN ACCORDANCE WITH ACCEPTABLE ENGINEERING PRACTICES.

13.04 TREE STAKES ARE TO BE REMOVED BY THE CONTRACTOR NOT LESS THAN ONE (1) YEAR AFTER PLANTING OF SAID TREES AND PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.

13.05 TREE PITS SHALL BE PROVIDED FOR ALL NEW TREES AND FOR EXISTING TREES IN AREAS OF FULL WIDTH SIDEWALK. PITS SHALL BE FIVE (5) FEET x TEN (10) FEET, UNLESS OTHERWISE SHOWN ON THE CONTRACT PLANS OR DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE TREE CONSULTANT/ARBORIST.

13.06 THE CONTRACTOR SHALL NOT BE PERMITTED TO OPERATE AUXILIARY EQUIPMENT WHICH GENERATES EXHAUST OR OTHER HEAT UPWARD (E.G., GENERATORS AND COMPRESSORS), UNDER THE BRANCHES OF TREES WHERE THE BRANCHES ARE LESS THAN TWENTY-FIVE (25) FEET ABOVE THE GROUND, UNLESS APPROVED BY THE ENGINEER IN CONSULTATION WITH THE TREE CONSULTANT.

13.07 THE CONTRACTOR SHALL NOT BE PERMITTED TO STORE, STOCKPILE, OR LAY DOWN ANY CONSTRUCTION MATERIAL INCLUDING BUT NOT LIMITED TO, LUMBER, FUEL, AND OIL CONTAINERS, PILES, AND/OR PIPE FITTINGS, BARRICADES, HAND TOOLS, HOSES, TRASH RECEPTACLES, AND ASPHALT WITHIN ANY EXISTING TREE PIT.

14. GREEN INFRASTRUCTURE NOTES

14.01 NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. LAYOUT THE WORK AS PROXIMATE COORDINATES AND GI PRACTICED DIMENSIONS SHOWN ON CONTRACT PLANS AND FIELD VERIFY. WRITTEN ASSET DIMENSION SHALL GOVERN. DO NOT SCALE DISTANCES OR ASSET DIMENSIONS FOR LAYOUT PURPOSES.

14.02 CONTRACTOR SHALL REMOVE SIDEWALK FLAGS AS DIRECTED AND APPROVED BY THE ENGINEER, WHICH SHALL TYPICALLY EXTEND TO THE OUTERMOST EDGE OF ANY FLAGS IMPACTED BY CONSTRUCTION. CONTRACTOR SHALL REPLACE ALL REMOVED SIDEWALK OUTSIDE THE BIOSWALE HEADER.

14.03 THE CONTRACTOR SHALL BE PREPARED TO CAP AND/OR REROUTE IRRIGATION LINES FOUND IN THE FIELD AS REQUIRED TO SUIT THE INSTALLATION OF GREEN INFRASTRUCTURE.

14.04 CONTRACTOR SHALL STAKE LOCATION OF RIGHT-OF-WAY BIOSWALE FOR APPROVAL BY ENGINEER PRIOR TO EXCAVATION WORK.

14.05 CONCRETE TOPPED INFILTRATION BASINS - CONSTRUCTION JOINT TO MATCH EXISTING SIDEWALK AS DIRECTED AND APPROVED BY THE ENGINEER.

14.06 DO NOT SCORE WITHIN EIGHTEEN (18) INCHES OF HEADERS ON INLET/OUTLET SURFACE OPENINGS.

14.07 CONTRACTOR TO REFER TO NYCDOT BUREAU OF ENVIRONMENTAL PLANNING AND ANALYSIS - GREEN INFRASTRUCTURE STANDARDS RIGHT-OF-WAY BIOSWALE DETAILS FOR THE CONSTRUCTION OF ALL RIGHT-OF-WAY BIOSWALE.

14.08 CONTRACTOR TO REFER TO NYCDOT BUREAU OF ENVIRONMENTAL PLANNING AND ANALYSIS - GREEN INFRASTRUCTURE STANDARDS FOR GREEN INFRASTRUCTURE PLANTING PLANS FOR THE CONSTRUCTION OF ALL PLANTING SCHEMES.

14.09 FOR ANY GREEN INFRASTRUCTURE PRACTICE THAT WILL IMPACT AUTHORIZED PARKING SPACES DUE TO THE CONSTRUCTION OF GREEN INFRASTRUCTURE PRACTICES, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION (NYCDOT) AUTHORIZED PARKING AND SPECIAL USE UNIT AT LEAST TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION. CONTACT PERSON: MERISA GILMAN, SENIOR PROGRAM MANAGER, (212) 839-3240, MGILMAN@DOT.NY.C.GOV.

15. BUS STOP SHELTER WORK

15.01 NO TEXT

15.02 NO TEXT

15.03 NO TEXT

15.04 NO TEXT

15.05 NO TEXT

15.06 NO TEXT

15.07 NO TEXT

15.08 NO TEXT

16. STREET LIGHTING WORK

16.01 THE CONTRACTOR SHALL FURNISH, INSTALL, AND REMOVE ALL NECESSARY STREET LIGHTING EQUIPMENT PRIOR TO NEW PAVES.

16.02 NEW INSTALLATION SHALL BE ENERGIZED BEFORE THE REMOVAL OF EXISTING POLES.

16.03 THE CONTRACTOR SHALL NOTIFY NYC DEPARTMENT OF TRANSPORTATION THE BUREAU OF TRAFFIC OPERATIONS, AT LEAST 72 HOURS PRIOR TO THE START OF WORK. (212) 839-3262.

16.04 ANY DAMAGE TO THE EXISTING STREET LIGHTING EQUIPMENT, AS A RESULT OF THE CONTRACTORS WORK AND/OR WORK FORCE, SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.

SPECIAL NOTE:

THE CONTRACT DOCUMENTS OF THIS PROJECT COMPLY WITH THE FEDERAL AND STATE CONTRACTING REQUIREMENTS.



DESIGNED: RANA ARSALAN
DRAWN: VERONICA HOLLKER
CHECKED: C. WILKINSON, P.E.

SCALE
AS SHOWN

CADD FILE

CORENZO WILKINSON, P.E.
ENGINEER-IN-CHARGE

LMSEY BERDMANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

GENERAL NOTES - II

NO.	DATE	DESCRIPTIONS	BY	APPROVED
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HK79W FEDERAL AID NO: X72.7b		DATE: 3-5-21	SHEET 5 OF 70	62 / 63

15. NYC TRANSIT GENERAL NOTES

15.00 CONTRACTOR IS CAUTIONED THAT UNDERGROUND T.A. FACILITIES EXIST IN SCHENCK AVENUE, VARIOUS TRANSIT AUTHORITY STRUCTURES EXTEND TO, OR NEAR TO, THE STREET SURFACE. THESE FACILITIES MAY INCLUDE VENTILATION STRUCTURES, ENTRANCES, EMERGENCY EXITS, VAULTS, CONDUITS, DUCTS, COLUMN FOUNDATIONS, ETC., DURING THE CONSTRUCTION. THESE FACILITIES SHALL BE SUPPORTED AND PROTECTED BY THE CONTRACTOR AS DIRECTED BY THE T.A. ENGINEER. COST OF THIS WORK IS TO BE INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED CONTRACT ITEMS.

NO DIRECT PAYMENT WILL BE MADE FOR COSTS INCURRED IN COMPLYING WITH THE FOLLOWING PROVISIONS, UNLESS OTHERWISE PROVIDED. SHAD COSTS WILL BE REQUIRED TO HAVE BEEN INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED CONTRACT ITEMS.

15.01 THE TRANSIT AUTHORITY RESERVES THE RIGHT TO PLACE INSPECTORS, FLAGMEN OR OTHER PERSONNEL IN THE SUBWAY STRUCTURES DURING CONSTRUCTION OF THE PROJECT LINKED BY A TELEPHONE SYSTEM, IF DEEMED NECESSARY. TO OBSERVE THE EFFECTS OF THE CONSTRUCTION ON THE TRANSIT FACILITIES, IT IS EXPECTED THAT SUCH PERSONNEL WILL BE NECESSARY WHEN THE CONSTRUCTION COMES WITHIN TWENTY-FIVE FEET OF THE SUBWAY STRUCTURE. HOWEVER, THE TRANSIT AUTHORITY FURTHER RESERVES THE RIGHT TO PLACE SUCH PERSONNEL WHENEVER, IN ITS OPINION, THE PROJECT CONDITIONS WARRANT SUCH PLACEMENT, REGARDLESS OF DISTANCE. THE COST OF SUCH PERSONNEL, TELEPHONE INSTALLATION AND ANY RE-ROUTES, DIVERSIONS OF SERVICE, WORK TRAINS, ETC., MADE NECESSARY BY THE PROJECT, WILL BE PAID FOR BY THE CITY DIRECTLY TO THE TRANSIT AUTHORITY, AT NO COST TO THE CONTRACTOR. IT IS AGREED THAT THE FURNISHING OF ANY TRANSIT AUTHORITY PERSONNEL SHALL NOT RELIEVE THE CONTRACTOR FROM ANY LIABILITY OF PAYMENT FOR DAMAGE CAUSED BY HIS OPERATIONS.

15.02 ALL ROCK EXCAVATION ADJACENT TO THE TRANSIT STRUCTURE IS TO BE CHANNEL DRILLED TWO FEET BELOW SUBGRADE.

15.03 F TOP OF ROCK IS FOUND BELOW SUBWAY STRUCTURE, THE SUBWAY STRUCTURE MUST BE UNDERPINNED IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

15.04 F ROCK IS SOFT OR SEAMY, LATERAL SUPPORTS MUST BE PROVIDED BELOW THE SUBWAY STRUCTURE IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.

15.05 BLASTING WILL BE PERMITTED ONLY WITH LIGHT CHARGES SUBJECT TO THE APPROVAL OF NYCTS ENGINEER AND IN ACCORDANCE WITH THE REGULATIONS OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE A DETAILED MONITORING PLAN, PROVIDING FOR MEASUREMENTS OF BOTH PARTICLE VELOCITY AND DISPLACEMENTS AT CRITICAL LOCATIONS OF THE NYCT STRUCTURE. THE MONITORING PLAN SHALL INCLUDE THRESHOLD AND UPSET LEVELS FOR BOTH PARTICLE VELOCITY AND SETTLEMENT TOGETHER WITH AN ACTION PLAN FOR THEIR IMPLEMENTATION. THE CONTRACTOR SHALL SECURE AN APPROVED SEISMOLOGIST TO INSTALL AND OPERATE SUITABLE VELOCITY GAUGES TO CONTINUOUSLY MONITOR PARTICLE VELOCITY AND AN INDEPENDENT LICENSED SURVEYOR TO MONITOR DISPLACEMENTS. THE PRESENCE OF A QUALIFIED TECHNICIAN FROM MONITORING COMPANY IS NECESSARY TO PROVIDE THE VIBRATION RECORDING ON REQUEST OF NYCT ENGINEER. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE BLASTING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCTS ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

15.06 BEFORE PLACING CONCRETE, THE SUBGRADE OF THE FOUNDATIONS IN THE VICINITY OF THE SUBWAY STRUCTURE IS TO BE INSPECTED AND APPROVED BY NYCTS ENGINEER.

15.07 F ANY PORTION OF THE SUBWAY STRUCTURE OR FINISH IS DAMAGED, AS A RESULT OF THE CONTRACTORS OPERATIONS, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS IN PLACE, SUBJECT TO THE APPROVAL OF NYCTS ENGINEER AND AT THE EXPENSE OF THE CONTRACTOR.

15.08 EXCAVATION EMBANKMENTS ARE TO BE SHORED AND BRACED. DRAWINGS INDICATING A SUGGESTED METHOD OF CONSTRUCTION ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. IN CONJUNCTION WITH THE PROJECTS CONTRACT DRAWINGS, IN CASE OF EXCAVATION UNDERMINING THE SUBWAY STRUCTURE, UNDERPINNING MAY BE REQUIRED. DRAWINGS FOR UNDERPINNING ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

15.09 TEMPORARY SHORING MAY BE PLACED IN DIRECT CONTACT WITH NYCT STRUCTURES ONLY IF THE NYCT STRUCTURE IS SHOWN TO BE ABLE TO SUPPORT ALL ANTICIPATED LOADS THAT CAN BE TRANSFERRED THROUGH THE TEMPORARY STRUCTURES WITHOUT DAMAGING THE EXISTING STRUCTURE. AT THE COMPLETION OF THE PROJECT, THESE TEMPORARY SHORING AND BRACING SYSTEMS ARE TO BE REMOVED AS APPROVED BY NYCT.

15.10 WHEN PILES ARE TO BE DRIVEN OR DRILLED ADJACENT TO THE SUBWAY STRUCTURE, BORING DATA, PILE LAYOUTS, SPECIFICATIONS AND INSTALLATION PROCEDURES ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. VELOCITY METERS ARE TO BE INSTALLED IN THE SUBWAY TUNNEL AT CRITICAL LOCATIONS TO MONITOR INDUCED VIBRATIONS. INDUCED DISPLACEMENTS ALONG THE TUNNEL STRUCTURE AND TRACK INVERT ARE TO BE MONITORED DURING DRIVING OR DRILLING. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE DRIVING OR DRILLING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCTS ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.

15.11 NO PILES ARE PERMITTED TO BE INSTALLED BY ANY METHOD WITHIN THREE FEET OF SUBWAY STRUCTURE, MEASURED FROM THE EDGE OF THE PILE OR CASING TO THE WALL. CLOSED END PILES WILL NOT BE PERMITTED TO BE DRIVEN WITHIN TEN FEET OF THE SUBWAY STRUCTURE.

15.12 ALL PILES ARE TO BE PLACED WITHIN A PRELIMINARILY CASED HOLE TO THE INFLUENCE LINE. THE CASING SHALL BE CLEANED WITHOUT DISTURBING THE SOIL OUTSIDE THE CASING AND THE PILE TO BE PLACED WITHIN THE CASING FOR INSTALLATION. THE PILES MAY THEN BE DRIVEN BEYOND THE INFLUENCE LINE WITHIN THE CASING.

15.13 THE INFLUENCE LINE SHALL START AT THE BOTTOM OF THE SUBWAY STRUCTURE AND EXTEND AT A 1H:1V TO 2H:1V SLOPE DEPENDING ON THE SOIL PROPERTIES AND GROUNDWATER TABLE. FOR PILES INSTALLED WITHIN TEN FEET OF THE SUBWAY STRUCTURE, THE CASING SHALL BE EXTENDED UP TO THE BOTTOM OF THE SUBWAY STRUCTURE.

15.14 AT THE COMPLETION OF PILE INSTALLATION, THE SPACE BETWEEN THE PILE AND THE CASING IS TO BE FILLED WITH EITHER CLEAN SAND OR GROUT. IF THE CASING IS TO BE REMOVED, THE FILLING MUST BE COMPLETED PRIOR TO REMOVAL OF THE CASING.

15.15 ALL PILES ARE TO BE DRIVEN A MINIMUM OF TEN FEET BELOW THE INTERSECTION OF THE PILE CENTER LINE AND THE INFLUENCE LINE OF THE SUBWAY STRUCTURE. THE USE OF MACHINE UTILIZING AIR FOR SOIL REMOVAL WILL NOT BE ALLOWED.

15.16 THE USE OF "DOWN-THU-HOLE HAMMERS" FOR INSTALLATION OF PILES THROUGH OVERBURDEN AND FILL WILL BE PERMITTED ONLY TO REMOVE BOULDERS. IT WILL NOT BE PERMITTED AS A MATTER OF COURSE TO ADVANCE THE HOLE. THE USE TO CONSTRUCT ROCK SOCKETS WILL NOT BE ALLOWED WITHIN FIVE FEET OF THE NYCT STRUCTURE.

15.17 VIBRATORY HAMMERS WILL NOT BE PERMITTED WITHIN 75 FEET OF SUBWAY STRUCTURES. HOERMAIS WILL NOT BE PERMITTED WITHIN 25 FEET OF SUBWAY STRUCTURES.

15.18 DYNAMIC COMPACTION METHODS USING DROPPED HEAVY WEIGHTS CANNOT BE CONDUCTED WITHIN 100 FEET OF ANY NYCT STRUCTURE UNLESS IT IS SHOWN THAT INDUCED SETTLEMENTS AND VIBRATIONS WILL NOT DAMAGE THESE STRUCTURES. A SUITABLE MONITORING PLAN INCLUDING SETTLEMENT AND VIBRATION MEASUREMENTS MUST BE APPROVED BY NYCTS ENGINEER FOR ALL SUCH OPERATIONS WITHIN THESE DISTANCES.

15.19 THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3 FEET OF NYCT STRUCTURES, POWER DUCT LINES, OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.

15.20 ALL DEWATERING OPERATIONS CONDUCTED WITHIN 500 FEET OF THE NYCT STRUCTURE MUST BE PERFORMED IN ACCORDANCE WITH DRAWINGS AND PROCEDURES SUBMITTED TO NYCT FOR APPROVAL. THE DISTANCE FROM THE STRUCTURE TO THE DEWATERING OPERATION CAN BE REDUCED PROVIDED THAT SOIL CONDITIONS AT THE SITE INDICATE THAT THE RADIUS OF INFLUENCE OF THE DEWATERING IS LESS THAN 500 FEET. FOR DEWATERING WITHIN THE RADIUS OF INFLUENCE, THE DEWATERING PROGRAM MUST BE SHOWN TO HAVE NEGLIGIBLE INFLUENCE ON SETTLEMENTS OF THE NYCT STRUCTURE.

15.21 SUBWAY ENTRANCES (VENTILATORS, ETC.) ARE TO BE UNDERPINNED OR SHORED AND BRACED F DIRECTED BY NYCTS ENGINEER.

15.22 NYCT, AT ITS DISCRETION, RESERVES THE RIGHT TO REQUIRE THE PROJECT TO CLOSE OR MAINTAIN AND PROTECT EXISTING SUBWAY ENTRANCES, VENTILATORS, ETC., ADJACENT TO THE PROJECT DURING CONSTRUCTION. SUCH CONSTRUCTION MAY INCLUDE UNDERPINNING, SHORING, BRACING AND ERECTION OF SUITABLE BARRICADES AND/OR CANOPIES AND SHIELDS. SUCH PROTECTION SHALL BE IN ACCORDANCE WITH DRAWINGS SUBMITTED TO NYCT FOR APPROVAL.

15.23 IF SHIELDS ARE TO BE INSTALLED TO PROTECT NYCT FACILITIES AND/OR THE PUBLIC, PLANS SHOWING THE LOCATION, TYPE AND METHOD OF ATTACHMENT TO THE TRANSIT STRUCTURE MUST BE SUBMITTED TO NYCT FOR APPROVAL.

15.24 ALL LUMBER AND PLYWOOD USED FOR PROTECTION OF SUBWAY FACILITIES MUST BE FIRE RETARDANT.

15.25 SUBWAY EMERGENCY EXITS MUST BE KEPT CLEAR AT ALL TIMES.

15.26 IN EXCAVATING OVER OR NEAR THE SUBWAY ROCK, SPECIAL CARE SHALL BE EXERCISED SO THAT THE THIN CONCRETE PROTECTION OF THE SUBWAY WATERPROOFING IS NOT DAMAGED.

15.27 BURNING OF, WELDING TO OR DRILLING THROUGH EXISTING STEEL STRUCTURES WILL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS APPROVED BY NYCT.

15.28 HORIZONTAL AND VERTICAL CONTROL SURVEY DATA OF THE EXISTING NYCT STRUCTURE IS TO BE TAKEN BY A LICENSED LAND SURVEYOR TO MONITOR ANY MOVEMENTS THAT OCCUR DURING CONSTRUCTION AND TO SHOW THAT THE INDUCED MOVEMENTS ARE WITHIN ALLOWABLES PROVIDED AND APPROVED BY NYCTS ENGINEER. IF ANY MOVEMENTS EXCEED ALLOWABLES, REMEDIATION AS APPROVED BY NYCT SHALL BE REQUIRED.

STRUCTURE	NOTIFY NYCT ENGINEER	STOP WORK
ELEVATED	18 INCH	18 INCH
SUBWAY	1/4 INCH	1/2 INCH

15.29 BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE BUS DIVERSIONS. THESE ARRANGEMENTS SHALL BE MADE THROUGH:

MS. SARAH WYSS
DIRECTOR, SHORT RANGE BUS SERVICE PLANNING
MTA NEW YORK CITY TRANSIT
2 BROADWAY, ROOM 417-20
NEW YORK, NY 10004
TEL: (949) 252-2517
FAX: (949) 252-2515
Sarah.Wyss@NYCT.com

WHEN IMPACTING ANY BUS STOP, SPECIAL OPERATIONS MUST BE NOTIFIED TWO WEEKS IN ADVANCE.

15.30 DUCT LINES MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ANY INTERFERENCE WITH DUCT LINES SHOULD BE REPORTED TO NYCT INSPECTOR. WHEN A DUCT LINE CONTAINING CABLES IS TO BE REMOVED, OR WHEN MASONRY ADJACENT THERE TO IS TO BE REMOVED, PENETRATED, OR DRILLED, THE WORK SHALL BE DONE WITH HAND LABOR ENTIRELY USING HAMMER AND CHISEL. JACKHAMMERS, BULL POINTS OR OTHER POWER EQUIPMENT SHALL NOT BE USED.

15.31 WHERE MANHOLES ARE CONFOUNDED:

a) THEY SHALL BE PROTECTED AND RAISED OR LOWERED AS REQUIRED, TO MATCH THE NEW STREET GRADE.

b) IF MANHOLE COVERS ARE RAISED OR LOWERED, PROTECT CABLES IN MANHOLE BY WOOD SHEETING OF 2" NOMINAL THICKNESS.

c) PRIOR TO THE START OF CONSTRUCTION OPERATIONS AFFECTING MANHOLES AND DUCT LINES, SEVEN DAYS NOTICE MUST BE GIVEN TO MR. JOHN MALVASIO, P.E., ASSISTANT CHIEF ENGINEERING, MAINTENANCE OF WAY, NYC TRANSIT 130 LIVINGSTON STREET, ROOM 804, BROOKLYN, NY 11201 AT (718) 694-1358.

15.32 CONSTRUCTION WORK DONE NEAR VENT GRATINGS AND HATCHES SHALL BE AS FOLLOWS:

a) UNLESS APPROVED BY THE NYCTS ENGINEER, ALL VENT GRATINGS AND HATCHES SHOULD REMAIN OUTSIDE THE CONSTRUCTION SITE, SEPARATED BY A CONSTRUCTION FENCE. PROTECTIVE SHIELDS MUST BE PROVIDED OVER VENT GRATINGS AS REQUIRED BY NYCTS ENGINEER.

b) NO BUILDING MATERIAL, VEHICLES OR CONSTRUCTION EQUIPMENT IS TO BE STORED OR RUN OVER VENT, GRATINGS, HATCHES OR EMERGENCY EXITS.

c) DETAILS OF SIDEWALK RECONSTRUCTION AROUND VENT GRATINGS, HATCHES AND EMERGENCY EXITS ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.

15.33 TRACTORS, CRANES, EXCAVATORS, ETC. USED IN THE VICINITY OF THE ELEVATED STRUCTURES SHALL BE ISOLATED FROM THE GROUND. SINCE THE ELEVATED STRUCTURE IS USED AS A NEGATIVE RETURN PATH WITH A CONSEQUENT POTENTIAL BETWEEN IT AND THE GROUND, ANY CONTACT BETWEEN THE STRUCTURE AND GROUNDING EQUIPMENT COULD RESULT IN BURNING OF THE STEEL.

15.34 TEMPORARY CONSTRUCTION SHEDS, BARRICADES OR PLYWOOD PARTITIONS MUST BE A MINIMUM OF 5'-4" FROM EDGE OF FINISHED PLATFORM.

15.35 STATION AREAS OR STAIRWAY CLOSINGS: THE GENERAL REQUIREMENTS FOR STATION AREAS OR STAIRWAY CLOSINGS ARE AS FOLLOWS:

a) ONLY ONE STAIRWAY AT EACH STATION WILL BE PERMITTED TO BE CLOSED AT THE SAME TIME. APPROVALS FOR CLOSING ANY STAIRWAY MUST BE OBTAINED FROM THE DIVISION OF STATION OPERATIONS AT LEAST THREE WEEKS IN ADVANCE.

b) MR. ASHOK PATEL, DIRECTOR, OFFICE OF STATION PROGRAMS, NYC TRANSIT, 130 LIVINGSTON STREET, ROOM 804 TELEPHONE (718) 694-1656 OF THE DIVISION OF STATIONS MUST BE NOTIFIED ONE WEEK PRIOR TO THE ACTUAL CLOSING AND RECORDING OF THE ENTRANCE.

c) AMPLE SIGNAGE MUST BE SUPPLIED AND POSTED AT LEAST ONE WEEK IN ADVANCE, ADVISING THE PUBLIC OF THE PROPOSED SUBWAY STAIR CLOSING. HOWEVER, IF AN ENTIRE ENTRANCE IS CLOSING, SIGNAGE MUST BE POSTED TWO WEEKS IN ADVANCE.

d) THE STREET ENTRANCE STAIRWAY SHOULD NOT BE CLOSED UNLESS MANPOWER AND MATERIALS ARE AVAILABLE TO COMMENCE WORK ON DATES PERMITTED.

e) ONCE THE CLOSING IS EFFECTED, CONSTRUCTION SIGNS MUST BE PLACED AT APPROPRIATE LOCATIONS ON THE BARRICADES AT THE STREET AND MEZZANINE LEVELS, STATING THE CONTRACTORS NAME, 24 HOUR EMERGENCY TELEPHONE NUMBER, CONTRACT NUMBER, THE DURATION OF THE CLOSING, DIRECTION TO AN ALTERNATE ENTRANCE/EXIT, AND AN APOLOGY FOR THE INCONVENIENCE TO OUR CUSTOMERS.

f) EXISTING STATION SIGNAGE MUST BE ADJUSTED TO REFLECT ANY CHANGES IN ACCESS/EGRESS.

g) BARRICADES ARE TO BE PAINTED AND KEPT GRAFFITI FREE AT ALL TIMES. THE CONTRACTOR MUST MAINTAIN THE BARRICADED AREA CLEAN OF ALL DEBRIS.

h) ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM PASSENGER TRAFFIC.

i) THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL AND BARRICADES FROM ALL STATION AREAS WHEN CONSTRUCTION IS COMPLETED.

j) INSPECTION OF THE AREA UNDER CONSTRUCTION BY AUTHORIZED STATION DEPARTMENT EMPLOYEES SHALL NOT BE INHIBITED.

k) IF STREET LIGHTS ON THE SIDEWALKS ARE AFFECTED, TEMPORARY LIGHTS SHALL BE PROVIDED.

15.36 F NEW CONCRETE CONSTRUCTION IS JOINED TO EXISTING CONCRETE, DOWELS AND KEYWAYS ARE TO BE USED IN ACCORDANCE WITH NYCT STANDARDS.

15.37 F THE PROJECT INVOLVES CONSTRUCTION OR ALTERATION OF A SUBWAY FACILITY ON PRIVATE PROPERTY, THE PROPERTY OWNERS WILL BE REQUIRED TO ENTER INTO AN AGREEMENT WITH NYCT PERTAINING TO ALL WORK AFFECTING THE TRANSIT FACILITIES AND CLEARLY DEFINING LIMITS AND RESPONSIBILITY FOR MAINTENANCE AND LIABILITY.

15.38 WHEREVER A NEW SIDEWALK IS BEING PLACED ADJACENT TO NYCT STRUCTURES THE FOLLOWING WILL BE REQUIRED:

a) THE TOP OF THE NEW SIDEWALK SHALL BE FLUSH WITH THE SUBWAY VENT GRATINGS, HATCHES AND EMERGENCY EXITS.

b) THE SLOPE OF THE NEW SIDEWALK SHALL BE SUCH THAT THE DRAINAGE BE AWAY FROM THESE STRUCTURES.

c) A 1/2" PREMOULDED FILLER SHALL BE INSTALLED BETWEEN THE NEW SIDEWALK AND NYCT STRUCTURE.

d) WHERE SIDEWALK ELEVATIONS ARE BEING CHANGED DETAILS OF PROPOSED WORK AROUND NYCT STRUCTURES ARE TO BE SUBMITTED FOR APPROVAL.

15.39 BEFORE ENTERING NYCT PROPERTY, CONTRACTOR OR SUBCONTRACTORS PERSONNEL SHALL HAVE ATTENDED NYCT TRACK SAFETY TRAINING AND EXPECT TO FOLLOW NYCT RULES AND REGULATIONS AS PER TRAINING AND ENGINEER INSTRUCTIONS.

15.40 BEFORE THE START OF ANY WORK, THE CONTRACTOR SHALL MAKE AN EXAMINATION, IN THE PRESENCE OF NYCTS ENGINEER, OF THE INTERIOR AND EXTERIOR OF NYCT SUBWAY OR OTHER STRUCTURE ADJACENT TO THE PROPOSED WORK. THE PERSON OR PERSONS AUTHORIZED BY THE CONTRACTOR TO MAKE THESE EXAMINATIONS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PHOTOGRAPHS AS MAY BE NECESSARY OR ORDERED TO INDICATE THE EXISTING CONDITION OF NYCT STRUCTURE. ONE COPY OF EACH PHOTOGRAPH, EIGHT INCHES BY TEN INCHES IN SIZE, AND THE NEGATIVE IS TO BE SUBMITTED TO MR. JOHN MALVASIO, P.E., ASSISTANT CHIEF ENGINEERING, DEPARTMENT OF MAINTENANCE OF WAY, NYC TRANSIT, 130 LIVINGSTON STREET, ROOM 804, BROOKLYN, NEW YORK, TELEPHONE (718) 694-1358 BEFORE THE START OF CONSTRUCTION.

15.41 ALL ARCHITECTURAL DETAILS (TOKEN BOOTHS, RAILINGS, DOORS, ETC.) ARE TO CONFORM TO THE LATEST NYCT STANDARDS. THESE STANDARDS ARE AVAILABLE AT NYCT.

15.42 STANDARD NYCT INSURANCE CLAUSES ARE TO BE MADE PART OF THE PROJECTS CONTRACT DRAWINGS. PROOF THAT THE NECESSARY INSURANCE IS IN EFFECT WILL BE REQUIRED BEFORE WORK CAN COMMENCE.

15.43 AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO TRANSIT FACILITIES, ONE SET OF VELLUMS OR MYLARS, FIVE SETS OF 35MM MICROFILM, AND ELECTRONIC COPIES PERTAINING TO PROCRUSTATION DOCUMENTS OF "APPROVED AS-BUILTS" MUST BE PROVIDED TO NYCT FOR ITS RECORDS. FOR DETAILS OF SPECIFIC REQUIREMENTS CONTACT NYCT OUTS DE PROJECTS.

15.44 AT LEAST SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OPERATIONS, NOTIFICATION MUST BE GIVEN TO MR. JOHN MALVASIO, P.E., ASSISTANT CHIEF ENGINEER, DEPARTMENT OF MAINTENANCE OF WAY, NYC TRANSIT AT TELEPHONE (718) 694-1358. THE CONTRACTOR TO PROVIDE TEMPORARY QUARTERS NEAR THE JOB SITE FOR NYCT INSPECTORS CONTAINING A DESK AND TELEPHONE.



Department of
Design and
Construction

DESIGNED: RAMA ARSALAN
DRAWN: VERONIQUE HOLLANDER
CHECKED: C. WILKERSON P.E.

SCALE
AS SHOWN

C. WILKERSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

CADD FILE

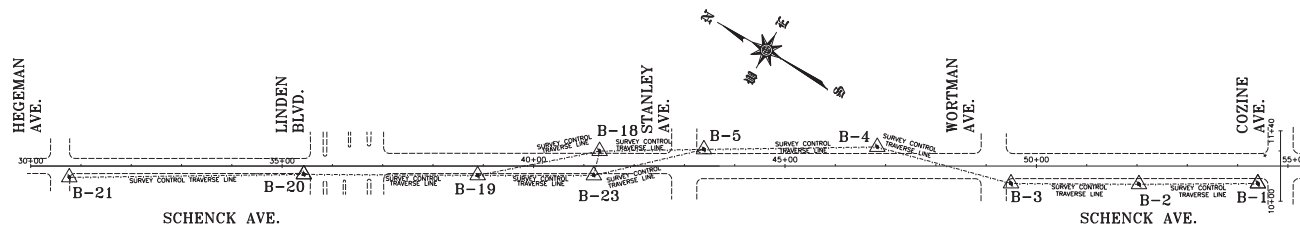
CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

NEW YORK CITY TRANSIT GENERAL NOTES

NO.	DATE	DESCRIPTIONS	BY	APPRO'D

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN
PROJECT #BWK67W
FEDERAL AID NO. X772.70

DATE: 3-5-21
SHEET 6 OF 70
63/63



SURVEY CONTROL PLAN
1" = 100'

<p>B-21 NORTH: 180725.78 EAST: 101611.85 MAG NAIL SET IN CONCRETE SIDEWALK ON THE SOUTHWEST CORNER OF THE INTERSECTION OF SCHENCK AVENUE AND HEGEMAN AVENUE.</p>	<p>B-20 NORTH: 180323.04 EAST: 1016347.09 "x" CUT SET IN CONCRETE SIDEWALK ON THE NORTHWEST CORNER OF THE INTERSECTION OF SCHENCK AVENUE AND LINDEN BOULEVARD.</p>	<p>B-19 NORTH: 180021.47 EAST: 1016015.94 "x" CUT SET IN CONCRETE SIDEWALK ON THE WEST SIDE OF SCHENCK AVENUE AND 1852' SOUTH OF THE SOUTHEAST CURB FACE OF LINDEN BOULEVARD.</p>	<p>B-23 NORTH: 179920.47 EAST: 1016029.82 "x" CUT SET IN CONCRETE SIDEWALK ON THE WEST SIDE OF SCHENCK AVENUE AND 1333' NORTH OF THE SOUTHWEST CURB FACE OF STANLEY AVENUE.</p>	<p>B-18 NORTH: 179834.31 EAST: 1016077.54 "x" CUT SET IN CONCRETE SIDEWALK ON THE EAST SIDE OF SCHENCK AVENUE AND 1432' NORTH OF THE NORTHEAST CURB FACE OF STANLEY AVENUE.</p>
<p>B-5 NORTH: 179655.55 EAST: 1016782.81 MAG NAIL SET IN CONCRETE SIDEWALK ON THE SOUTHEAST CORNER OF THE INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE.</p>	<p>B-4 NORTH: 179358.01 EAST: 1016957.09 MAG NAIL SET IN CONCRETE SIDEWALK ON THE EAST SIDE OF SCHENCK AVENUE 2064' NORTH OF THE NORTH CURB FACE OF WORMAN AVENUE.</p>	<p>B-3 NORTH: 179090.94 EAST: 1017025.09 MAG NAIL SET IN CONCRETE SIDEWALK ON THE SOUTH WEST CORNER OF THE INTERSECTION OF SCHENCK AVENUE AND WORMAN AVENUE.</p>	<p>B-2 NORTH: 178868.82 EAST: 1017149.30 MAG NAIL SET IN CONCRETE SIDEWALK ON THE WEST SIDE OF SCHENCK AVENUE AND 2527.2' NORTH OF THE NORTHWEST CURB FACE OF COZINE AVENUE.</p>	<p>B-1 NORTH: 178864.02 EAST: 1017267.20 MAG NAIL SET IN CONCRETE SIDEWALK ON THE NORTH WEST CORNER OF THE INTERSECTION OF SCHENCK AVENUE AND COZINE AVENUE.</p>

TRAVERSE TIES
SCALE: 1" = 20'

NOTE: ALL ELEVATIONS SHOWN ON THIS SURVEY REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 "NAVD88". TO CONVERT THIS DATUM TO BROOKLYN HIGHWAY DATUM, SUBTRACT 1.460 FEET FROM EACH ELEVATION. TO CONVERT TO NYCT DATUM, ADD 98.447 FEET FROM EACH ELEVATION. TO CONVERT TO BROOKLYN SEWER DATUM, SUBTRACT 0.82 FEET FROM EACH ELEVATION. HORIZONTAL COORDINATES ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NAD 83 (2011) EPOCH: 2010.00, LONG ISLAND ZONE, ESTABLISHED USING RTK OBSERVATIONS.

NOTE:

1. THE SURVEY CONTROL INFORMATION GIVEN FOR THIS CONTRACT IS BASED ON MONUMENTS AND BENCH MARKS ESTABLISHED BY THE TOPOGRAPHICAL BUREAU OF THE OFFICE OF THE BOROUGH PROSPECT. THE CONTRACTOR IS ADVISED THAT SURVEY CONTROL POINTS MAY NOT LONGER EXIST AND HE/she WILL BE REQUIRED TO RE-ESTABLISH THE SURVEY CONTROL INFORMATION, CDS FOR THE WORK SHALL BE DEEMED INCLUDED IN ALL SCHEDULED BIDDING.
2. IF ANY MONUMENTS REQUIRE REPLACEMENT OR RESETTling, THE COST SHALL BE INCLUDED IN ALL BID ITEMS.

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID HW207N FEDERAL AID NO X77276		DATE: 3-5-21	SHEET 7 OF 70	SCV 5/21



**Department of
Design and
Construction**

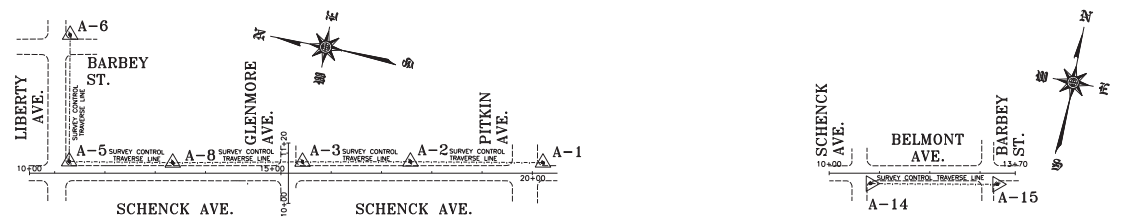
DESIGNED: **CORENZO WILKERSON**
DRAWN: **VERICE HOULKER**
CHECKED: **C. WILKERSON P.E.**
CADD FILE:

SCALE
AS SHOWN

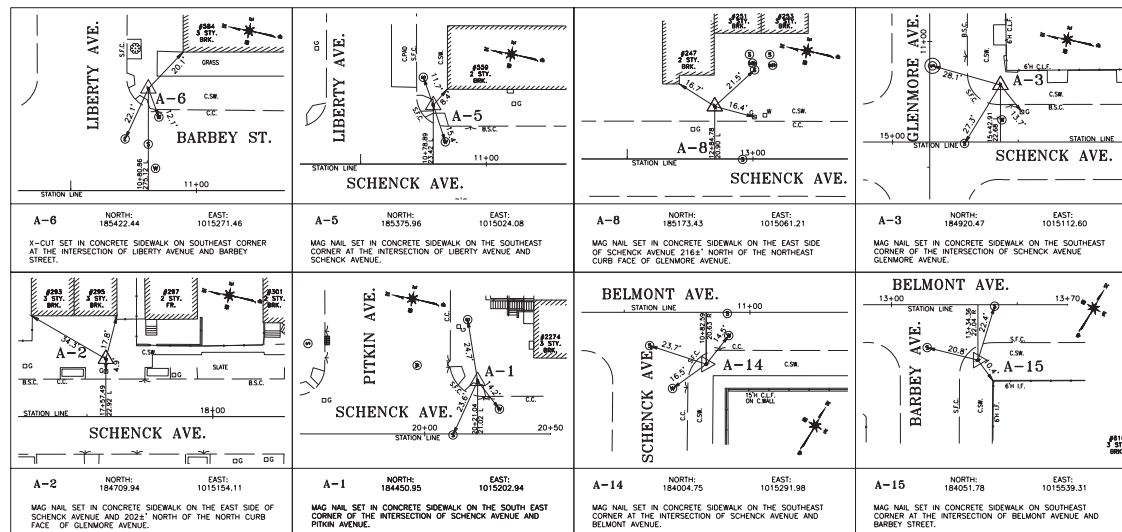
CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHAM P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

SURVEY CONTROL - 1



SURVEY CONTROL PLAN
1" = 100'



TRAVERSE TIES
SCALE: 1" = 20'

BENCHMARK TABLE		
BENCHMARK	ELEVATION	DESCRIPTION
BBBM3815	38.791'	CUT ON S. END OF BOT. STEP, ENTR. ON JEROME ST. OF 4 STY. BR. BLDG. ON S.E. COR. OF JEROME ST. & GLENMORE AVE. (305 JEROME ST.) (BM HELD)
BBBM3869	38.387'	CUT ON S. END OF W. CONC. BASE OF SUBWAY STAIRS ON N.E. COR. OF PITKIN AVE. & VAN SOLLEN AVE. (BM HELD)
BBBM3284	15.518'	CUT ON BRICK WATER TABLE, S.W. COR. OF #893 WORTHMAN AVE. & SCHENCK AVE. ON N.E. COR. OF WORTHMAN AVE. & SCHENCK AVE. CUT IS ABOUT 40' S. OF ENTR. TO BLDG. OR ABOUT 30' N. OF N.C.L. OF WORTHMAN AVE. & ABOUT 25' E. OF E.C.L. OF SCHENCK AVE. (BM HELD)
BBBM3905	20.340'	CUT ON TOP OF E. STONE BASE TO ENTR. OF #731 HEDGEMAN AVE. 3 STY. BR. BLDG. ON N.E. COR. HEDGEMAN AVE. & SCHENCK AVE. CUT IS 3.1' ABOVE WALK.
BM1	38.68'	CUT SET ON TOP THE 0.65' CONCRETE WALL AT THE NORTHWEST CORNER OF THE INTERSECTION OF COZINE AVENUE AND SCHENCK AVENUE. SAID BENCHMARK IS 148' NORTH OF THE NORTH CURB FACE OF COZINE AVENUE AND 234' WEST OF THE WEST CURB FACE OF SCHENCK AVENUE.
BM2	43.49'	CUT SET ON TOP THE 0.65' CONCRETE WALL AT THE NORTHEAST CORNER OF THE INTERSECTION OF STANLEY AVENUE AND SCHENCK AVENUE. SAID BENCHMARK IS 158' EAST OF THE EAST CURB FACE OF SCHENCK AVENUE AND 154' NORTH OF THE NORTH CURB FACE OF STANLEY AVENUE.
BM3	34.04'	CUT SET ON RAISED CONCRETE ON THE SOUTH SIDE OF PITKIN AVENUE. SAID BM IS 328' EAST OF THE EAST CURB FACE OF SCHENCK AVENUE AND 204' SOUTH OF THE SOUTH CURB FACE OF PITKIN AVENUE.
BM4	36.66'	CUT SET ON SOUTH END OF BOTTOM STEP (BLUESTONE STEPS) TO #841 GLENMORE AVE. SAID BM IS 514' NORTH OF THE NORTH CURB FACE OF GLENMORE AVE. AND 134' EAST OF THE EAST CURB FACE OF SCHENCK AVE.
BM5	43.49'	CUT SET ON EAST END OF CONCRETE DOOR SILL FOR AN ENTRANCE TO BUILDING #554 LIBERTY AVENUE. SAID B.M. IS 434' WEST OF THE WESTERN CURB FACE OF SCHENCK AVENUE, 124' SOUTH OF THE SOUTHERLY CURB FACE OF LIBERTY AVENUE, AND 0.88' ABOVE CONCRETE SIDEWALK.
BM6	38.68'	CUT SET ON THE NORTH SIDE OF THE CONCRETE WALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF BELMONT AVENUE AND SCHENCK AVENUE. SAID BENCHMARK IS 154' SOUTH OF THE SOUTHERLY CURB FACE OF BELMONT AVENUE AND 158' EAST OF THE EAST CURB FACE OF SCHENCK AVENUE.
BM7	43.49'	CUT SET ON THE SOUTHEAST CORNER OF THE FIRST STEP FROM THE BOTTOM AT THE RESIDENCE OF #442 BARNEY STREET. SAID BENCHMARK IS 294' NORTH OF THE NORTH CURB FACE OF BELMONT AVENUE.
BM8	36.66'	CUT SET ON THE NORTHEAST CORNER OF THE FIRST STEP FROM THE BOTTOM AT THE RESIDENCE OF #714 SCHENCK AVENUE. SAID BENCHMARK IS 134' WEST OF THE WEST CURB FACE OF SCHENCK AVENUE.
BM9	43.49'	CUT SET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF SCHENCK AVENUE AND LINDEN BOULEVARD. SAID BENCHMARK IS ON THE SOUTHWEST CORNER OF THE CONCRETE COPING AT THE BOTTOM OF THE STEPS TO BUILDING #785 SCHENCK AVENUE AND 594' EAST OF THE EAST CURB FACE OF SCHENCK AVENUE.

NOTE: ALL ELEVATIONS SHOWN ON THIS SURVEY REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 "NAVD88". TO CONVERT THIS DATUM TO BROOKLYN HIGHWAY DATUM, SUBTRACT 1.460 FEET FROM EACH ELEVATION. TO CONVERT TO NYCT DATUM, ADD 96.47 FEET FROM EACH ELEVATION. TO CONVERT TO BROOKLYN SEWER DATUM, SUBTRACT 0.82 FEET FROM EACH ELEVATION. HORIZONTAL COORDINATES ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NAD 83 (2011) EPOCH: 2010.00, LONG ISLAND ZONE, ESTABLISHED USING RTK OBSERVATIONS.

NOTE:

1. THE SURVEY CONTROL INFORMATION GIVEN FOR THIS CONTRACT IS BASED ON MONUMENTS AND BENCH MARKS ESTABLISHED BY THE TOPOGRAPHICAL BUREAU OF THE OFFICE OF THE BOROUGH PRESIDENT. THE CONTRACTOR IS ADVISED THAT SURVEY CONTROL POINTS MAY NOT LONGER EXIST AND HE/SH/IT WILL BE REQUIRED TO RE-ESTABLISH THE SURVEY CONTROL INFORMATION. COST FOR THIS WORK SHALL BE DETERMINED IN ALL SCHEDULE D BIDD ITEMS.
2. IF ANY MONUMENTS REQUIRE REPLACEMENT OR RESETTING, THE COST SHALL BE INCLUDED IN ALL BIDD ITEMS.



Department of
Design and
Construction

DESIGNED: BANA ARSALAM
DRAWN: VERICE HOULKER
CHECKED: C. WILKERSON P.E.

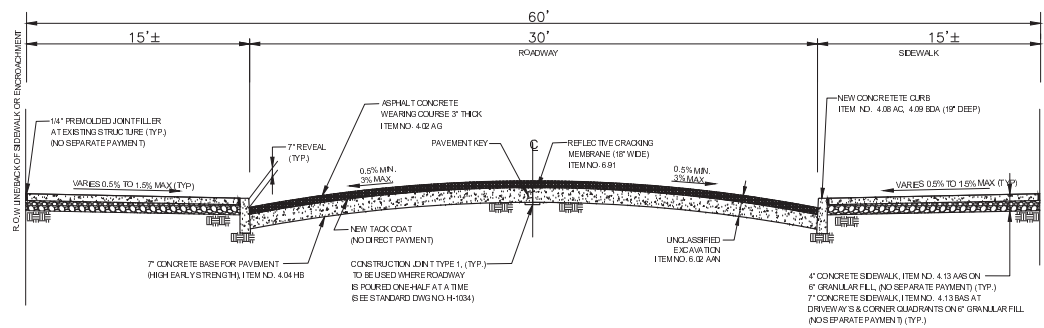
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AS SHOWN
CADD FILE

CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHAM, P.E.
DIRECTOR

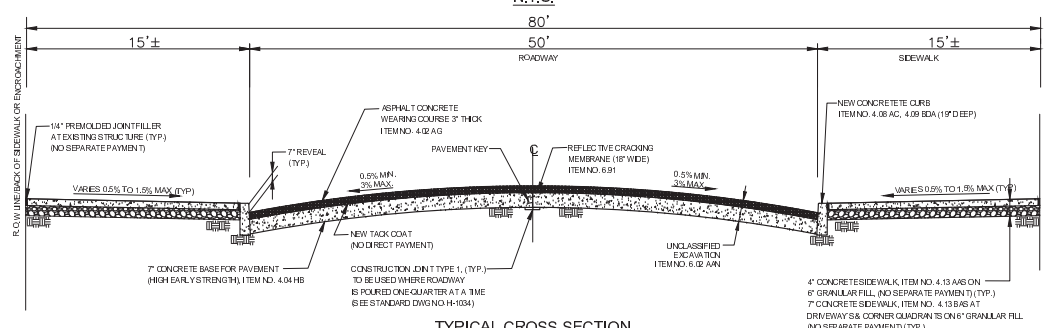
CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

SURVEY CONTROL -2

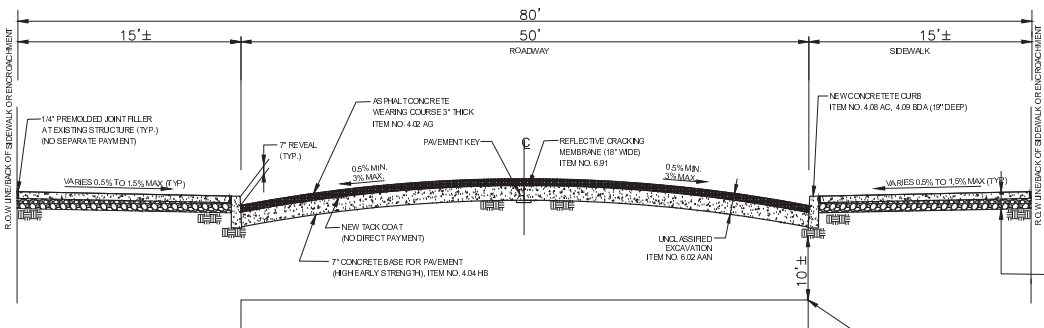
NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK07W FEDERAL AID NO: 3722.70		DATE: 3-5-21	SHEET 8 OF 70	503 507



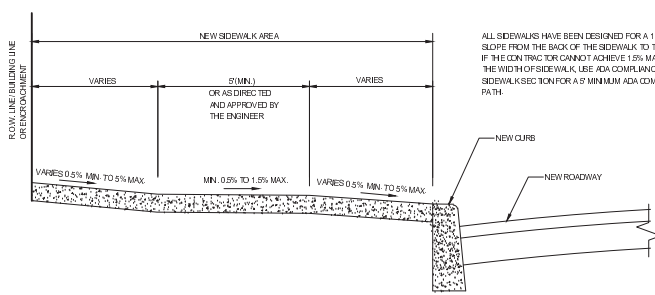
TYPICAL CROSS SECTION
SCHENCK AVENUE
STATION 10+10 TO 20+30
N.T.S.



TYPICAL CROSS SECTION
SCHENCK AVENUE
STATION 43+40 TO 49+00
N.T.S.



TYPICAL CROSS SECTION
PITKIN AVENUE STATION 19+58 TO 20+15
N.T.S.



FULL WIDTH SIDEWALK SECTION
ADA COMPLIANCE
N.T.S.

SPECIAL NOTE:
FOR PEDESTRIAN ACCESS ROUTE CROSS SLOPE, SEE
GENERAL NOTES 4.11, SHEET 4.



DESIGNED: DANA ARSALAN
DRAWN: VERONIQUE HOLLANDER
CHECKED: C. WILKINSON, P.E.

SCALE:
AS SHOWN
CADD FILE:

CORENDO WILKINSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERRHAIN, P.E.
DIRECTOR

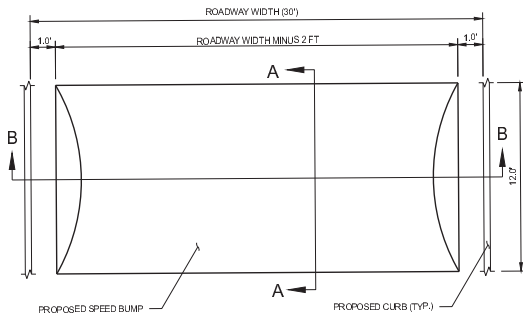
CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TYPICAL ROADWAY SECTIONS AND DETAILS - 1

NO.	DATE	DESCRIPTIONS	BY	APPROV.
REVISIONS				

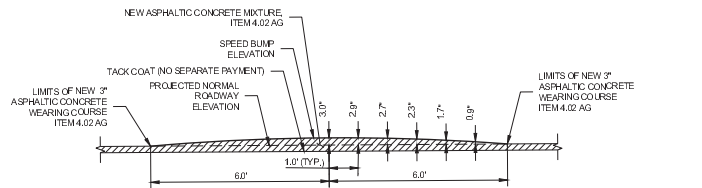
RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT: 15TH020W
FEDERAL AID NO: X77276
DATE: 3/5/21
SHEET 9 OF 70
DET/2/21

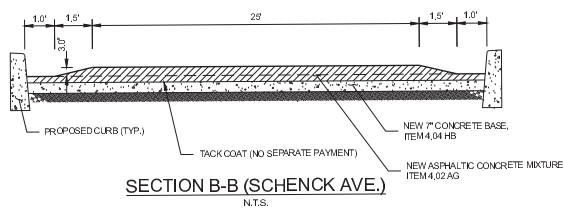


SPEED BUMP PLAN VIEW (SCHENCK AVE.)
STATION 12+81 TO 12+91
N.T.S.

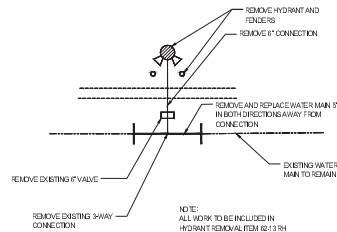
- NOTES:
- FOR PAVEMENT MARKINGS AND SIGNAGE ASSOCIATED WITH SPEED BUMP, SEE NYCDOT STD. DWG. TSB-1 AND SHEET PM1.
 - CONTRACTOR SHALL COORDINATE WITH THE NYCDOT BROOKLYN BOROUGH ENGINEER OF TRAFFIC BEFORE STARTING WORK ON THE SPEED BUMP.



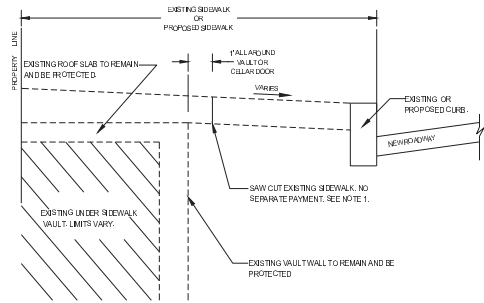
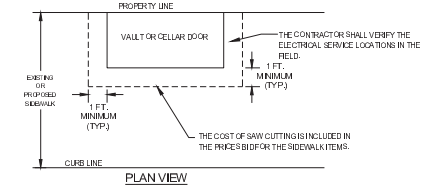
SECTION A-A (SCHENCK AVE.)
N.T.S.



SECTION B-B (SCHENCK AVE.)
N.T.S.



TYPICAL HYDRANT REMOVAL
N.T.S.



CROSS SECTION

- NOTES:
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND EXTENT OF THE VAULTS WITHIN THE PROJECT LIMITS BEFORE THE START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION FOR THE SAW CUT LINE SO THAT IT DOES NOT IMPACT THE EXISTING VAULT OR CELLAR DOOR. THE CONTRACTOR SHALL EXERCISE CAUTION IN THIS AREA TO INSURE THAT THE VAULT OR CELLAR DOOR IS NOT DISTURBED. ANY DAMAGES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL EXERCISE CAUTION SO AS NOT TO DAMAGE THE EXISTING COLUMNS, WALLS, AND/OR FOUNDATIONS. THEY WILL REQUIRE HAND EXCAVATION ITEM NO. 5.02 A OR 5.02 B, AS APPLICABLE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

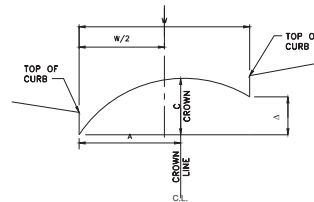
SIDEWALK SAW CUTTING IN THE VICINITY OF
VAULTS AND CELLAR DOORS.
N.T.S.

$$C = \frac{\Delta \times (W - \Delta) \times (24 - \%) }{750}$$

$$A = \frac{W^2 \times (24 - \%) }{2 \times W \times (24 - \%) - \Delta}$$

% = LONGITUDINAL SLOPE

PAVEMENT CROWN FORMULAS



DETAIL 1- PAVEMENT CROWN
SEE DOT DESIGN DIRECTIVES #30 of 1978



Department of
Design and
Construction

DESIGNED: RAMA ARSLAN
DRAWN: VERONICA HOLLANDER
CHECKED: C. WILKERSON, P.E.

SCALE:
AS SHOWN
CADD FILE:

..... COPELAND WILKERSON, P.E.
ENGINEER-IN-CHARGE
..... LINDSEY BERGMANN, P.E.
DIRECTOR

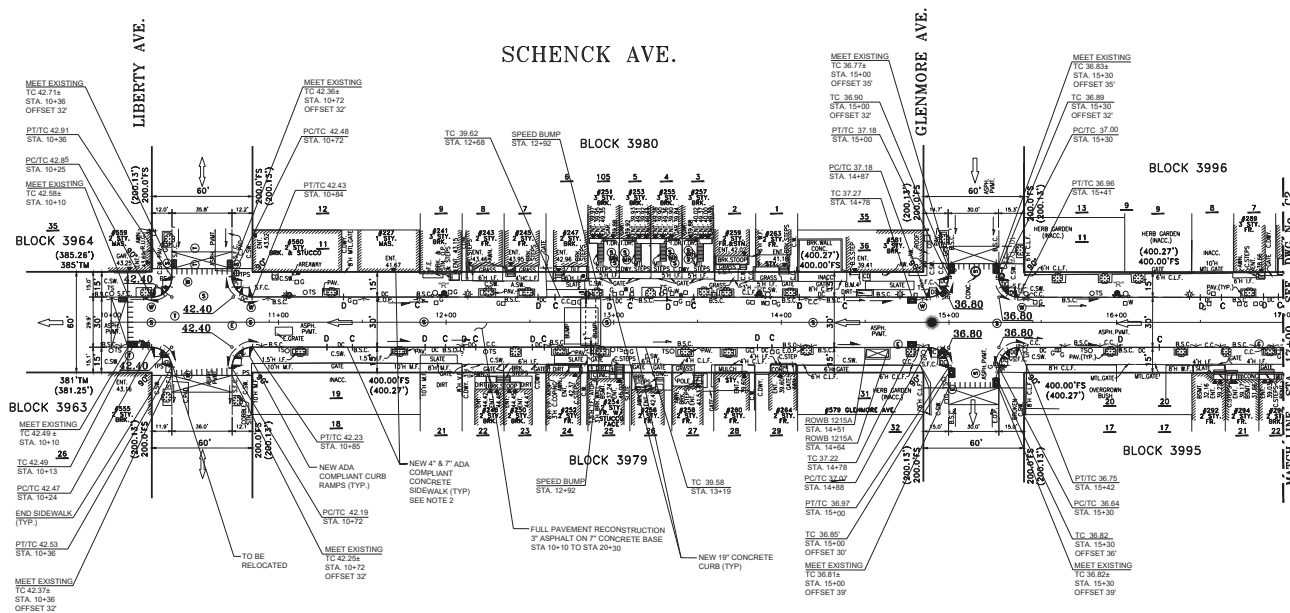
CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TYPICAL ROADWAY SECTIONS AND DETAILS - 2

NO.	DATE	DESCRIPTIONS	BY	APPROV.
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: H41070N FEEDBACK NO. 100-1772.0		DATE: 3/5/21	SHEET 100F70	DET 10/21



- NOTES**
1. SCAFFOLDING FOR WORK ON ADJACENT BUILDINGS MAY BE LOCATED AT SOME OF THE PROPOSED WORK LOCATIONS FOR THIS PROJECT. THE CONTRACTOR IS ADVISED TO COORDINATE THE CONSTRUCTION SCHEDULE WITH STAKEHOLDERS SO AS TO HAVE MINIMAL DELAYS DUE TO THE PRESENCE OF SCAFFOLDING AT LOCATION OF PROPOSED WORK. THE COST OF ANY ADDITIONAL WORK OR DELAY DUE TO THE CONFLICTS WITH SCAFFOLDING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 2. ALL PROPOSED SIDEWALKS SHALL BE UNPIGMENTED CONCRETE SIDEWALK UNLESS OTHERWISE NOTED. PROPOSED SIDEWALKS AT CORNER QUADRANTS AND DRIVEWAYS SHALL BE 7" CONCRETE SIDEWALK, WHILE ALL OTHER PROPOSED SIDEWALK LOCATIONS SHALL BE 4" CONCRETE SIDEWALK.
 3. FOR GENERAL NOTES SEE DRAWINGS GEN1 TO GEN3.
 4. FOR UTILITY PLANS SEE DRAWINGS U1 TO U7.
 5. FOR PAVEMENT MARKING PLANS SEE DRAWINGS PM1 TO PM4.
 6. FOR PROPOSED TRAFFIC SIGNALS SEE DRAWINGS TS1 TO TS5.
 7. FOR STREET LIGHTING PLANS SEE DRAWINGS SL1 TO SL6.
 8. PROPOSED CATCH BASIN ELEVATION TO BE DETERMINED BASED ON EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL CONSTRUCT THE CATCH BASIN AS APPROVED AND DIRECTED BY THE ENGINEER.



PLAN
SCALE: 1" = 30'

1215A - 13' X 5' ROWB TYPE 2

ROWB 1215A - BIOSWALE	
LENGTH	13'
WIDTH	5'
ENGINEER SOIL DEPTH	2'
OPEN GRADED STONE DEPTH	2.5'
CHAMBER SIZE	N/A
STONE COLUMN DEPTH	N/A
CURB TYPE	CONCRETE
TREE SPECIES	CHIONANTHUS VIRGINICUS
PLANTING PLAN	WET SUNNY
TREE GUARD	TYPE B

LEGEND

BIOSWALE 13' x 5'

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
1	2/22/2023	BIOSWALE DESIGNATION	R.A.	C.W.



DESIGNED: BANA ARSALAN
DRAWN: VERONICA HOUKLER
CHECKED: C. WILKERSON, P.E.
CADD FILE: _____

SCALE: AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE

LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

ROADWAY CONSTRUCTION PLAN - 1
SCHENCK AVENUE
FROM STA. 10+00 TO 17+00

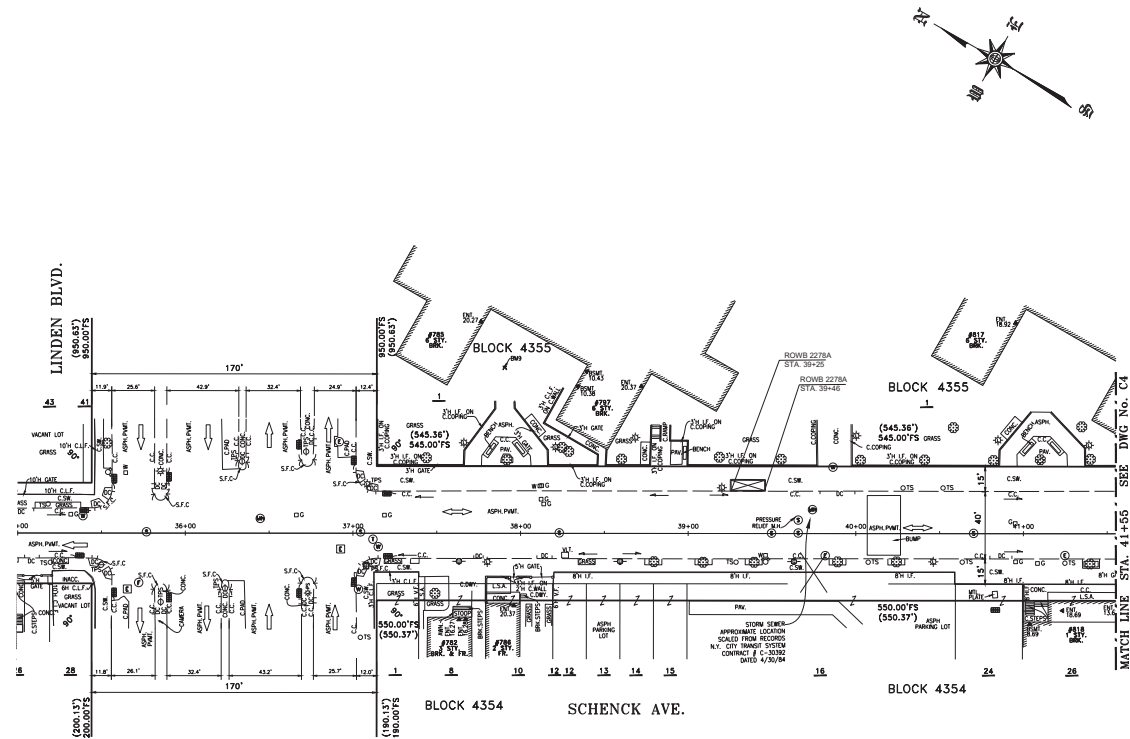
RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HKR797W
FEDERAL AID NO: X77278

DATE: 3-5-21

SHEET 11 OF 70

C1



PLAN
SCALE: 1" = 30'

2278A - 20' x 6' ROWB TYPE 10

BIOSWALE TABLE	
ROWB 2278A	
LENGTH	20'
WIDTH	6'
ENGINEER SOIL DEPTH	1.5'
OPEN GRADED STONE DEPTH	3.5'
STONE COLUMN DEPTH	N/A
CHAMBER SIZE	N/A
CURB TYPE	CONCRETE
TREE SPECIES	NO TREE
PLANTING PLAN	DRY MIXED SUN/SHADE
TREE GUARD	TYPE B

LEGEND

 BIOSWALE 20' x 6'

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				

PROJECT ID: HWK797W FEDERAL AID NO: X772.78		DATE: 3-5-21	SHEET 13 OF 70	C3/CS
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				



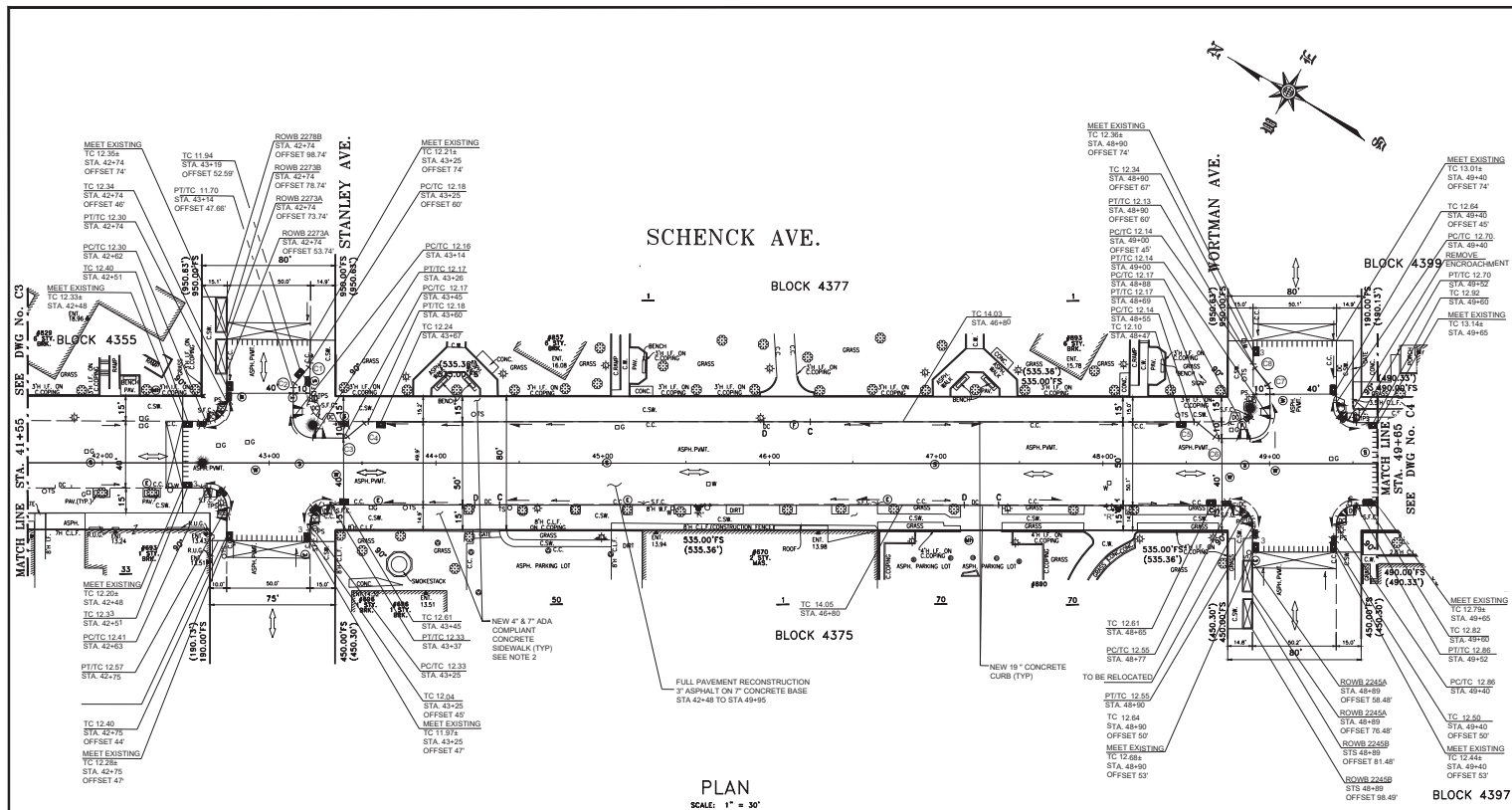
DESIGNED: BANA ARSALAN
DRAWN: VERICKE HOULIKER
CHECKED: C. WILKERSON P.E.

SCALE:
AS SHOWN
CADD FILE: _____

CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

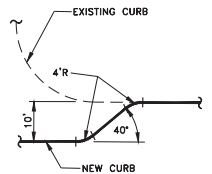
ROADWAY CONSTRUCTION PLAN - 3
SCHENCK AVENUE
FROM STA. 35+00 TO 41+55



PLAN
SCALE: 1" = 30'

NOTES

1. SCAFFOLDING FOR WORK ON ADJACENT BUILDINGS MAY BE LOCATED AT SOME OF THE PROPOSED WORK LOCATIONS FOR THIS PROJECT. THE CONTRACTOR IS ADVISED TO COORDINATE THE CONSTRUCTION SCHEDULE WITH STAKEHOLDERS SO AS TO HAVE MINIMAL DELAYS DUE TO THE PRESENCE OF SCAFFOLDING AT LOCATION OF PROPOSED WORK. THE COST OF ANY ADDITIONAL WORK OR DELAY DUE TO THE CONFLICTS WITH SCAFFOLDING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL PROPOSED SIDEWALKS SHALL BE UNIMPREGMENTED CONCRETE SIDEWALK UNLESS OTHERWISE NOTED. PROPOSED SIDEWALKS AT CORNER QUADRANTS AND DRIVEWAYS SHALL BE 7" CONCRETE SIDEWALK. WHILE ALL OTHER PROPOSED SIDEWALK LOCATIONS SHALL BE 4" CONCRETE SIDEWALK.
3. FOR GENERAL NOTES SEE DRAWINGS GEN1 TO GEN3.
4. FOR UTILITY PLANS SEE DRAWINGS U1 TO U7.
5. FOR PAVEMENT MARKING PLANS SEE DRAWINGS PM1 TO PM4.
6. FOR PROPOSED TRAFFIC SIGNALS SEE DRAWINGS TS1 TO TS5.
7. FOR STREET LIGHTING PLANS SEE DRAWINGS SL1 TO SL6.
8. PROPOSED CATCH BASIN ELEVATION TO BE DETERMINED BASED ON EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL CONSTRUCT THE CATCH BASIN AS APPROVED AND DIRECTED BY THE ENGINEER.



TYPICAL BULB-OUT
N.T.S.

- 2273A - 20' X 6' ROWB TYPE 1C - HYDRAULICALLY CONNECTED - WITH STORMWATER CHAMBER
2273B - 20' X 6' ROWB TYPE 1 - HYDRAULICALLY CONNECTED

BIOSWALES TABLE		
	ROWB 2273A	ROWB 2273B
LENGTH	20'	20'
WIDTH	6'	6'
ENGINEER SOIL DEPTH	2'	2'
OPEN GRADED STONE DEPTH	2.5'	2.5'
STONE COLUMN DEPTH	N/A	N/A
CHAMBER SIZE	18'-0" x 3'-0" x 1'-8.5"	N/A
CURB TYPE	CONCRETE	CONCRETE
TREE SPECIES	NO TREE	QUERCUS PALUSTRIS
PLANTING PLAN	DRY MIXED SUN/SHADE	COMBO WET/DRY MIXED SUN/SHADE
TREE GUARD	TYPE B	TYPE B

- 2245B - 17' X 5' ROWB TYPE 1A - HYDRAULICALLY CONNECTED - WITH STONE COLUMNS
2245A - 18' X 5' ROWB TYPE 1A - HYDRAULICALLY CONNECTED - WITH STONE COLUMNS

BIOSWALES TABLE		
	ROWB 2245B	ROWB 2245A
LENGTH	17'	18'
WIDTH	5'	5'
ENGINEER SOIL DEPTH	2'	2'
OPEN GRADED STONE DEPTH	2.5'	2.5'
STONE COLUMN DEPTH	16'	16'
CHAMBER SIZE	N/A	N/A
CURB TYPE	CONCRETE	CONCRETE
TREE SPECIES	PRUNUS 'OKAME'	NO TREE
PLANTING PLAN	COMBO WET/DRY SUNNY	DRY SUNNY
TREE GUARD	TYPE B	TYPE B

CURB - CURVE DATA TABLE						
CURVE NO.	STATION	OFFSET	CURVE LENGTH	RADIUS	DELTA	ELEVATION
(C1)	STA.43+23	57.35' L	2.80'	4.00'	40°04'16"	-
	STA.43+25	60.00' L	2.80'	4.00'	40°04'16"	12.18'
(C2)	STA.43+14	45.10' L	2.80'	4.00'	40°04'16"	11.70'
	STA.43+15	45.66' L	2.80'	4.00'	40°04'16"	-
(C3)	STA.43+45	14.93' L	2.80'	4.00'	40°04'16"	12.17'
	STA.43+47	15.77' L	2.80'	4.00'	40°04'16"	-
(C4)	STA.43+57	23.88' L	2.80'	4.00'	40°04'16"	12.18'
	STA.43+60	24.81' L	2.80'	4.00'	40°04'16"	-
(C5)	STA.48+55	25.36' L	2.80'	4.00'	40°04'16"	12.14'
	STA.48+57	24.09' L	2.80'	4.00'	40°04'16"	-
(C6)	STA.48+67	15.98' L	2.80'	4.00'	40°04'16"	12.17'
	STA.48+69	14.90' L	2.80'	4.00'	40°04'16"	-
(C7)	STA.48+99	47.81' L	2.80'	4.00'	40°04'16"	12.14'
	STA.49+00	45.00' L	2.80'	4.00'	40°04'16"	12.13'
(C8)	STA.48+90	60.00' L	2.80'	4.00'	40°04'16"	-
	STA.48+91	57.14' L	2.80'	4.00'	40°04'16"	-

LEGEND

BIOSWALE: SEE TABLE



DESIGNED: RANA ARSALAN
DRAWN: VERONICA HOUKLER
CHECKED: C. WILKERSON P.E.

SCALE
AS SHOWN
CADD FILE

CORENDO WILKERSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

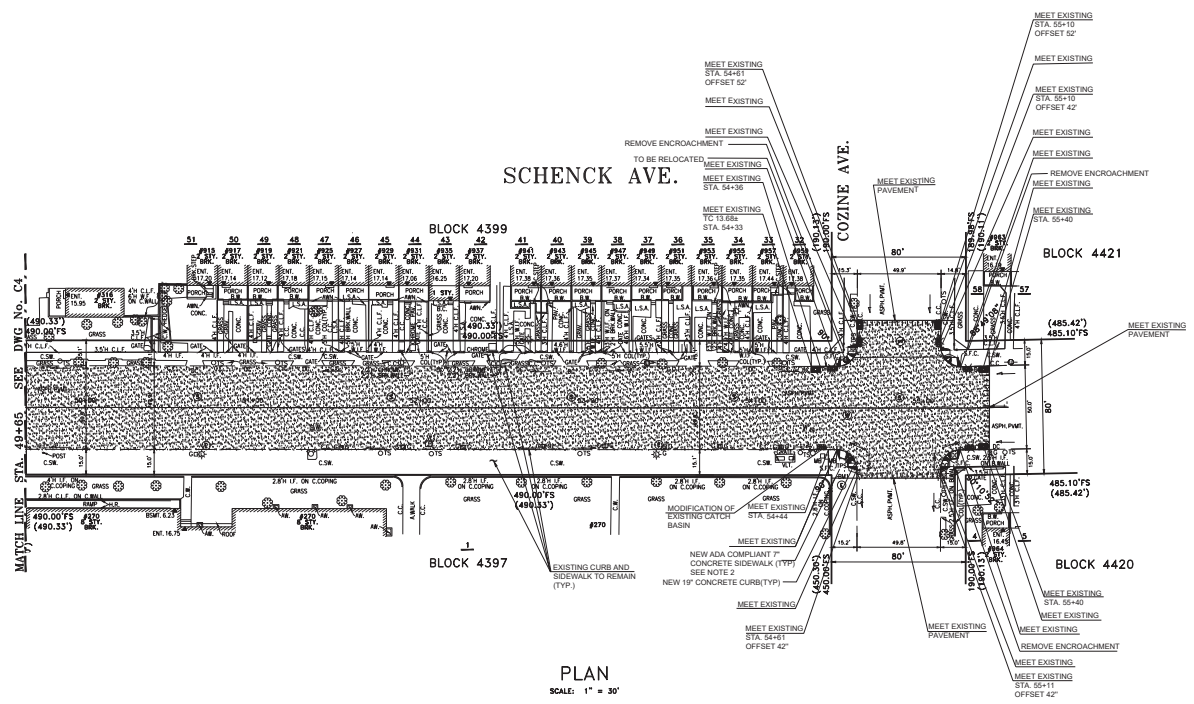
ROADWAY CONSTRUCTION PLAN - 4
SCHENCK AVENUE
FROM STA. 42+00 TO 49+65

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HWK79W
FEDERAL AID NO. X772.79
DATE: 3-5-21
SHEET 14 OF 70
C4/C5



- NOTES**
1. SCAFFOLDING FOR WORK ON ADJACENT BUILDINGS MAY BE LOCATED AT SOME OF THE PROPOSED WORK LOCATIONS FOR THIS PROJECT. THE CONTRACTOR IS ADVISED TO COORDINATE THE CONSTRUCTION SCHEDULE WITH STAKEHOLDERS SO AS TO HAVE MINIMAL DELAYS DUE TO THE PRESENCE OF SCAFFOLDING AT LOCATION OF PROPOSED WORK. THE COST OF ANY ADDITIONAL WORK OR DELAY DUE TO THE CONFLICTS WITH SCAFFOLDING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
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 4. FOR UTILITY PLANS SEE DRAWINGS U1 TO U7.
 5. FOR PAVEMENT MARKING PLANS SEE DRAWINGS PM1 TO PM4.
 6. FOR PROPOSED TRAFFIC SIGNALS SEE DRAWINGS TS1 TO TS5.
 7. FOR STREET LIGHTING PLANS SEE DRAWINGS SL1 TO SL6.
 8. PROPOSED CATCH BASIN ELEVATION TO BE DETERMINED BASED ON EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL CONSTRUCT THE CATCH BASIN AS APPROVED AND DIRECTED BY THE ENGINEER.



PLAN
SCALE: 1" = 30'

LEGEND

	ROADWAY AREA TO BE RESURFACED
--	-------------------------------

NO.		DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS					

PROJECT 10-HWK797W FEDERAL AID NO. X772.78			DATE: 3-5-21	SHEET 15 OF 70	CS/CS
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DESIGNED: BANA ABDALAM
DRAWN: VERICKE HOULIKER
CHECKED: C. WILKERSON P.E.
CADD FILE: _____

SCALE:
AS SHOWN

CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE

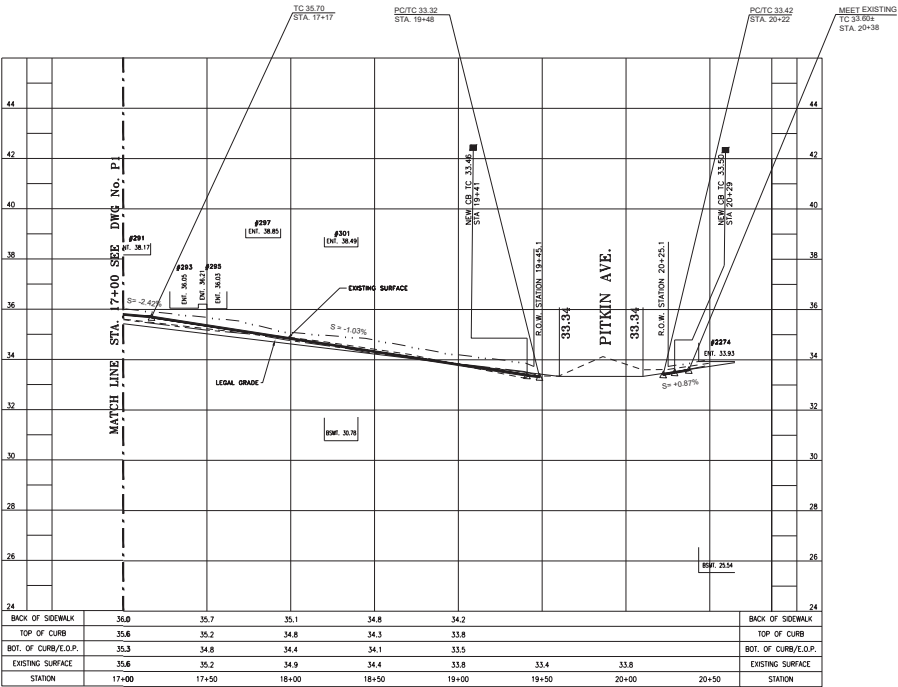
LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

ROADWAY RESURFACING PLAN - 1
SCHENCK AVENUE
FROM STA. 49+65 TO 55+50

NOTES:

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT FOR NEW YORK CITY TRANSIT (NYCT) APPROVAL DETAIL DRAWINGS WITH A N.Y.S. P.E. STAMP FOR ALL THE WORK NEAR TRANSIT AUTHORITY STRUCTURE.
2. SHEETING AND BRACING DESIGN FOR THE SEWER AND WATER MAIN PREPARED BY A P.E. SHALL BE SUBMITTED FOR APPROVAL NYC TRANSIT-OUTSIDE PROJECTS.
3. THE CONTRACTOR IS ADVISED THAT THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3' (THREE FEET) OF A NYCT STRUCTURE. POWER DUCT LINES OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.



HIGHWAY PROFILE ALONG EAST SIDE OF SCHENCK AVENUE

VERT: 1" = 2'
SCALE: HORIZ: 1" = 30'

LEGEND

- EXISTING BACK OF SIDEWALK (OR ROW)
- EXISTING TOP OF CURB
- EXISTING SURFACE
- LEGAL GRADE
- PROPOSED TOP OF CURB



Department of
Design and
Construction

DESIGNED: BANA ARSALAN
DRAWN: VERICKE HOUJIKER
CHECKED: C. WILKERSON P.E.

SCALE
AS SHOWN

CADD FILE

CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE

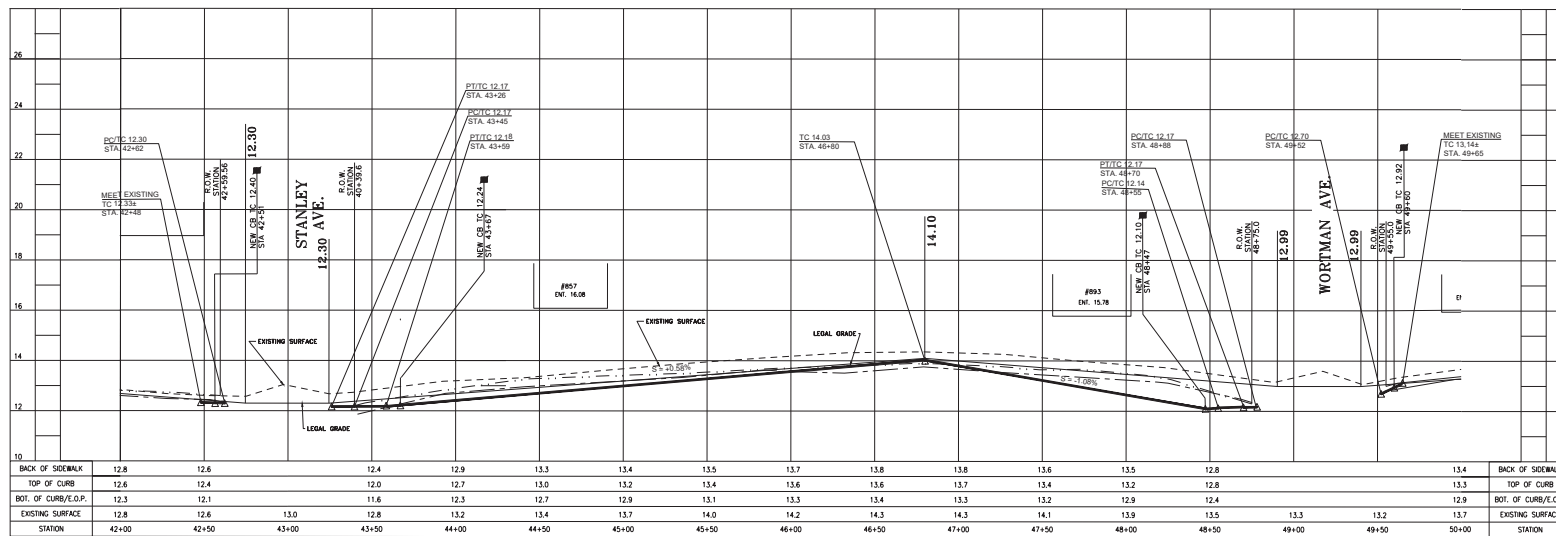
LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

ROADWAY PROFILE - 2
SCHENCK AVENUE
FROM STA. 17+00 TO 20+50

NO.	DATE	DESCRIPTIONS	BY	APPR'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK797W FEDERAL AID NO. X772.78		DATE: 3-5-21	SHEET 17 OF 70	P2/P5

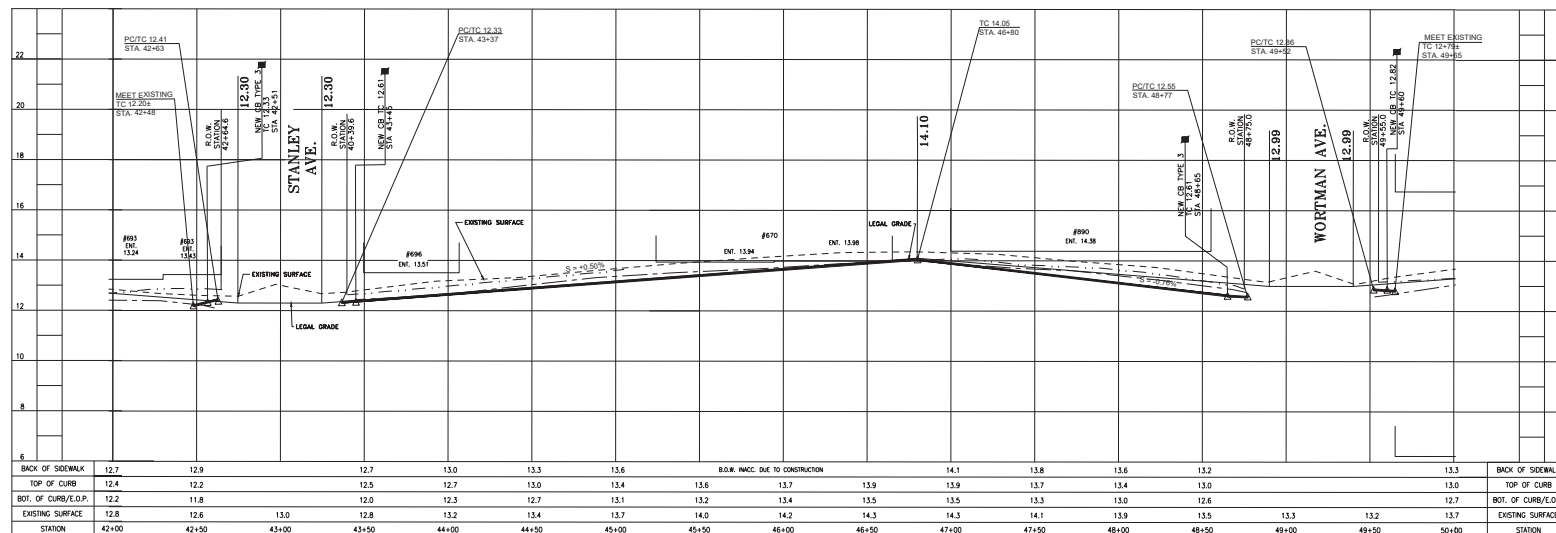
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HIGHWAY PROFILE ALONG EAST SIDE OF SCHENCK AVE.

VERT: 1" = 2'
HORIZ: 1" = 30'

LEGEND
 --- EXISTING BACK OF SIDEWALK (OR ROW)
 --- EXISTING TOP OF CURB
 --- EXISTING SURFACE / ROADWAY CENTERLINE
 --- LEGAL GRADE



HIGHWAY PROFILE ALONG WEST SIDE OF SCHENCK AVE.

VERT: 1" = 2'
HORIZ: 1" = 30'

LEGEND
 --- EXISTING BACK OF SIDEWALK (OR ROW)
 --- EXISTING TOP OF CURB
 --- EXISTING SURFACE / ROADWAY CENTERLINE
 --- LEGAL GRADE



Department of
Design and
Construction

DESIGNED: RANA ARSALAN
 DRAWN: VERONICA HOUJIKER
 CHECKED: C. WILKERSON P.E.
 CAD FILE

SCALE
AS SHOWN

CORENDO WILKERSON P.E.
 ENGINEER-IN-CHARGE
 LINDSEY BERNHARDT, P.E.
 DIRECTOR

CITY OF NEW YORK
 DEPARTMENT OF DESIGN + CONSTRUCTION
 DIVISION OF INFRASTRUCTURE
 BUREAU OF DESIGN

ROADWAY PROFILE - 5
 SCHENCK AVENUE
 FROM STA. 42+00 TO 50+00

NO. DATE DESCRIPTIONS BY APPRO'D

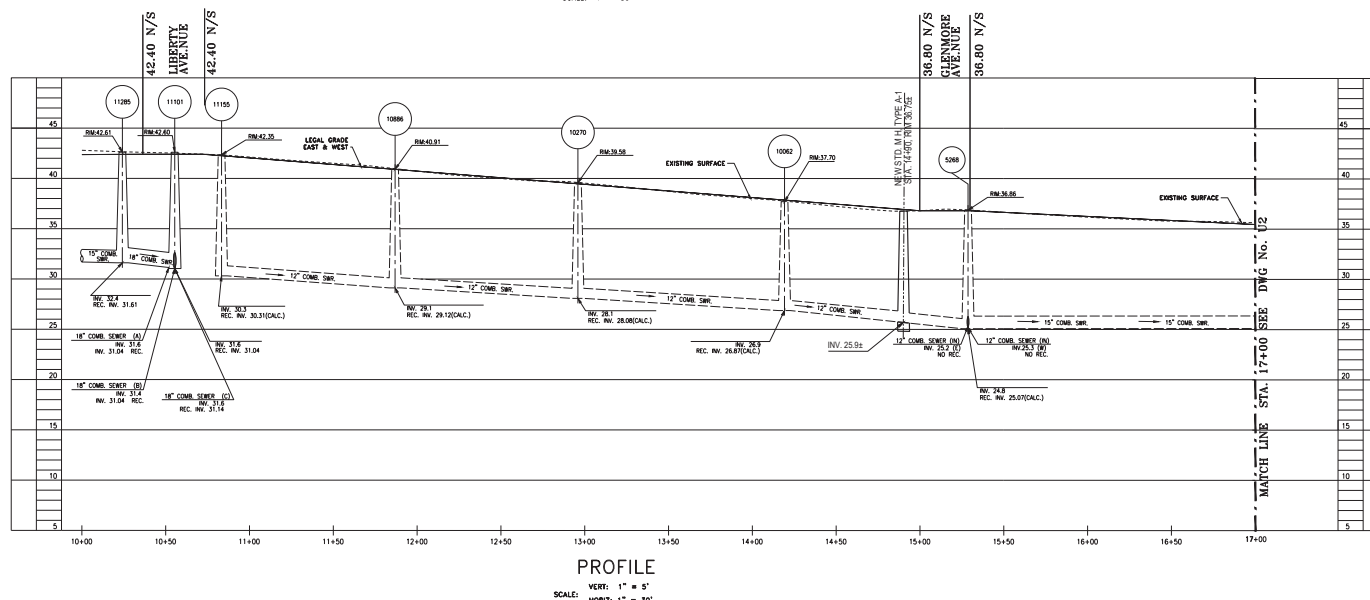
RECONSTRUCTION OF SCHENCK AVENUE
 BOROUGH OF BROOKLYN

PROJECT ID: HWK797W
 FEDERAL AID NO. X772.79

DATE:
3-5-21

SHEET 20 OF 70

PS



NO.	DATE	DESCRIPTIONS	BY	APPR'D
REVISIONS				

RECONSTRUCTION OF SCHENCK AVENUE

BOROUGH OF BROOKLYN

PROJECT # HWK097W FEDERAL AID # 1772-78	DATE 3-5-21	SHEET 21 OF 70	UT /17
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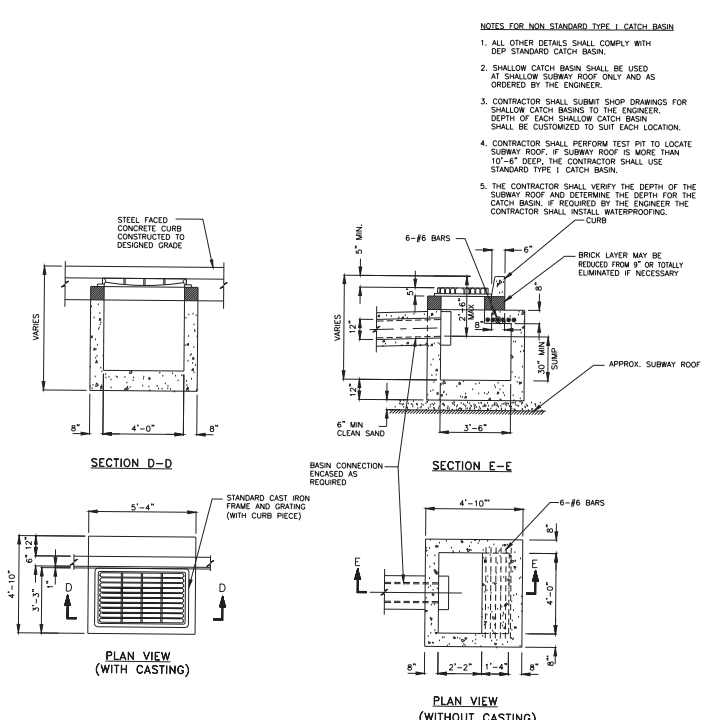
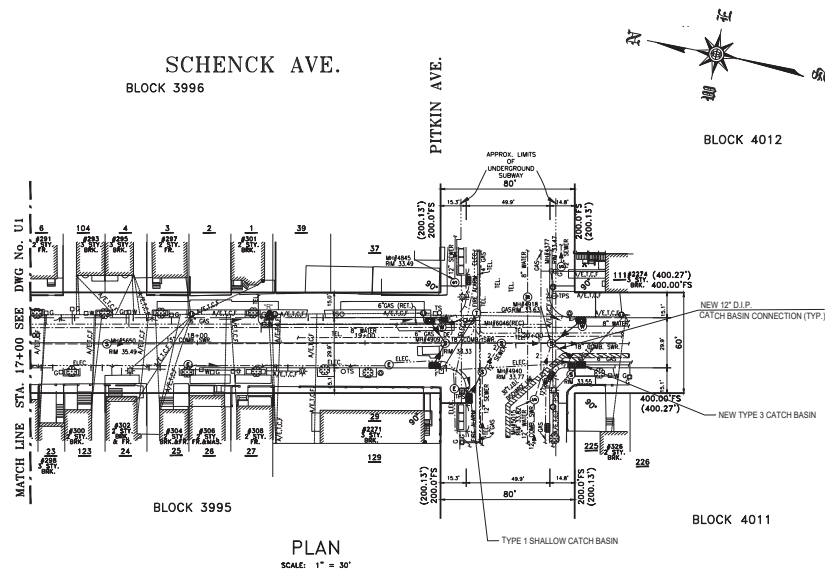
DESIGNED RAMA ARSALAN
DRAWN VERICKE HOULKER
CHECKED C. WILKERSON, P.E.

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE

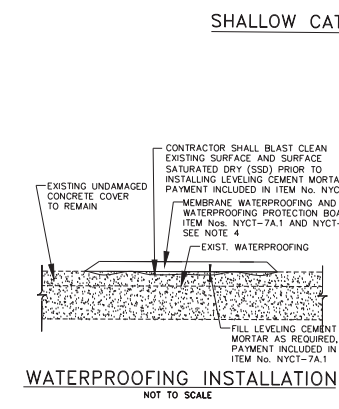
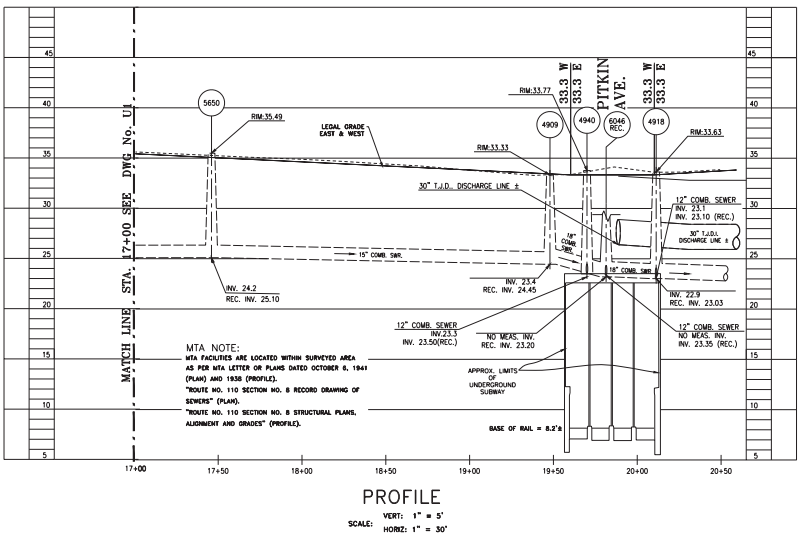
LINDSEY BERKHAHN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

UTILITY PLAN AND PROFILE - 1
SCHENCK AVENUE
FROM STA. 10+00 TO 17+00

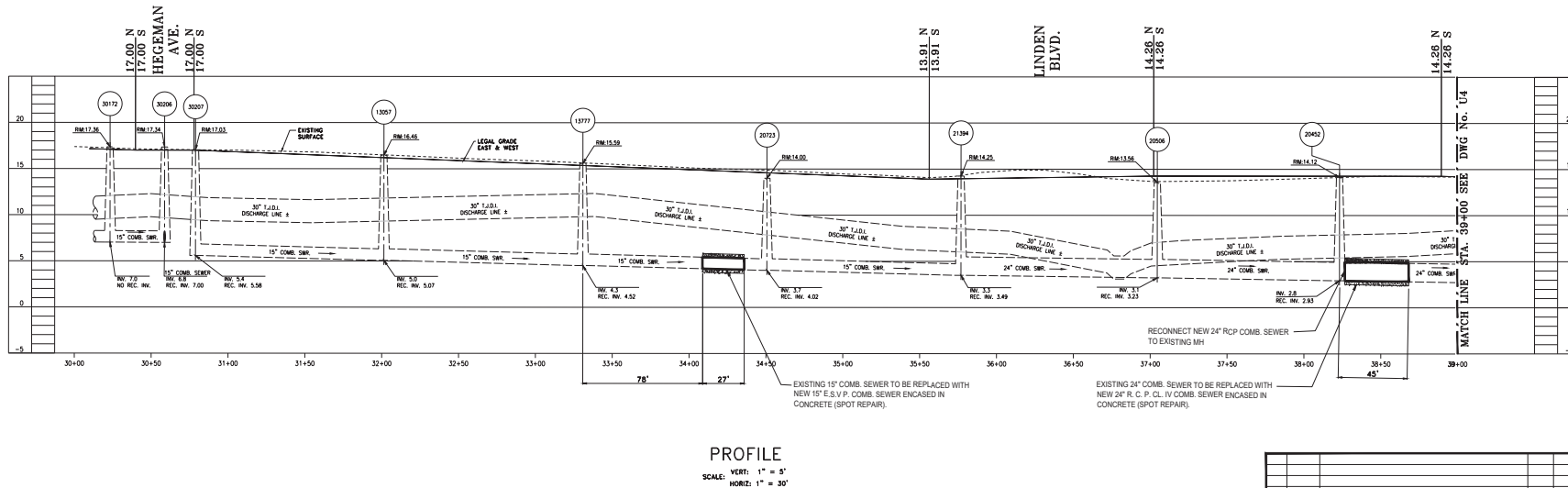
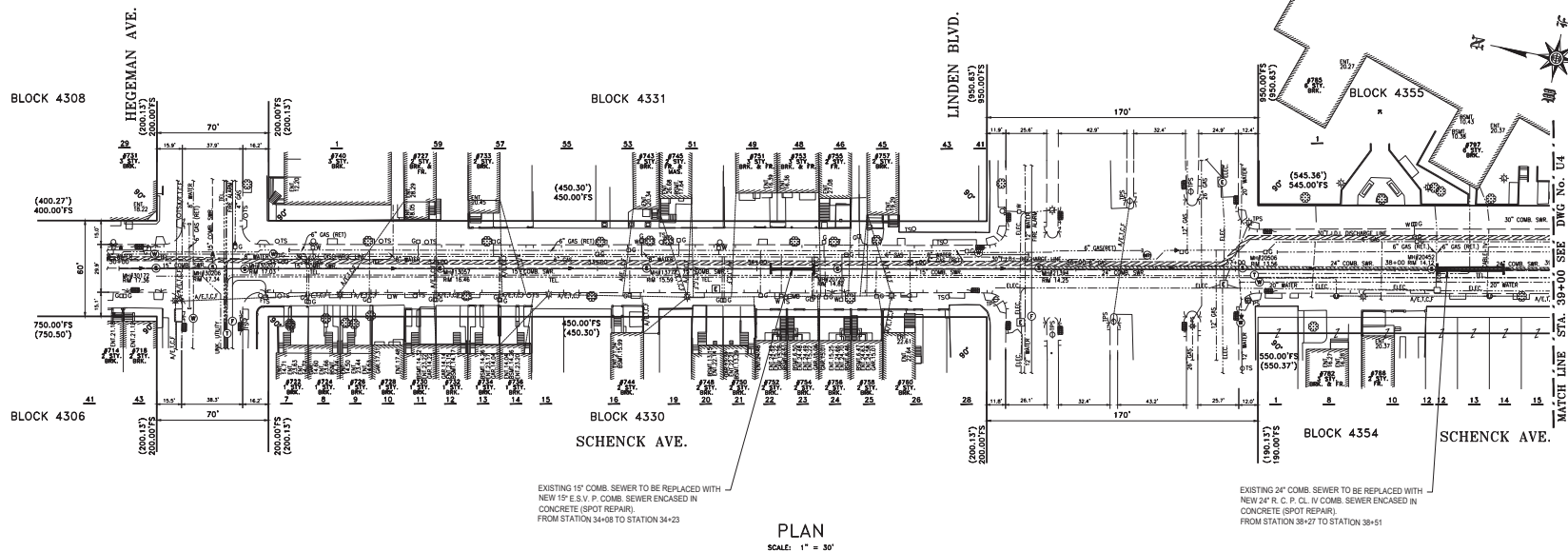


- NOTES FOR NON-STANDARD TYPE 1 CATCH BASIN**
1. ALL OTHER DETAILS SHALL COMPLY WITH DEP STANDARD CATCH BASIN.
 2. SHALLOW CATCH BASIN SHALL BE USED AT SHALLOW SUBWAY ROOF ONLY AND AS ORDERED BY THE ENGINEER.
 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SHALLOW CATCH BASINS TO THE ENGINEER. DEPTH OF EACH SHALLOW CATCH BASIN SHALL BE CUSTOMIZED TO SUIT EACH LOCATION.
 4. CONTRACTOR SHALL PERFORM TEST PIT TO LOCATE SUBWAY ROOF. IF SUBWAY ROOF IS MORE THAN 10'-6\"/>



- NOTES:**
1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT FOR NEW YORK CITY TRANSIT (NYCT) APPROVAL DETAIL DRAWINGS WITH A N.Y.S. P.E. STAMP FOR ALL THE WORK NEAR TRANSIT AUTHORITY STRUCTURE.
 2. SHEETING AND BRACING DESIGN FOR THE SEWER AND WATER MAIN PREPARED BY A P.E. SHALL BE SUBMITTED FOR APPROVAL NYCT TRANSIT-OUTSIDE PROJECTS.
 3. THE CONTRACTOR IS ADVISED THAT THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3' (THREE FEET) OF A NYCT STRUCTURE, POWER DUCT LINES OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.
 4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE SUBWAY ROOF WATERPROOFING. IF WATERPROOFING IS DAMAGED DURING CONTRACTOR OPERATIONS, IT SHALL BE REPAIRED OR REPLACED TO THE ACCEPTANCE OF THE ENGINEER AND THE NYC TRANSIT AUTHORITY. PAID UNDER ITEM NO. NYCT-7A.1 AND ITEM NO. NYCT-7A.2. AREAS THAT MAY REQUIRE INSTALLATION OF WATERPROOFING INCLUDE, BUT ARE NOT LIMITED TO: BENEATH TROLLEY TRACK REMOVAL, BENEATH WATER MAIN REPLACEMENT OR INSTALLATION, BENEATH MANHOLE REMOVALS, AND BENEATH CATCH BASIN REMOVALS.
 5. THE ELEVATION OF THE SUBWAY ROOF WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL EXERCISE CAUTION IN EXCAVATING, ESPECIALLY ALONG PITKIN AVENUE WHERE THE SUBWAY ROOF IS LOCATED. THE CITY SHALL NOT BE LIABLE FOR ANY DISCREPANCIES. THE EXACT ELEVATIONS SHALL BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR TOGETHER WITH NYCT PERSONNEL SHALL INSPECT THE SUBWAY ROOF AND REPAIR IT IF NECESSARY, WATERPROOFING AND CONCRETE PROTECTION.

 Department of Design and Construction	DESIGNED <u>RANA APSALAN</u>	SCALE AS SHOWN	CORENZO WILKERSON, P.E. ENGINEER-IN-CHARGE	CITY OF NEW YORK DEPARTMENT OF DESIGN + CONSTRUCTION DIVISION OF INFRASTRUCTURE BUREAU OF DESIGN	UTILITY PLAN AND PROFILE - 2 SCHENCK AVENUE FROM STA. 17+00 TO 20+50	REVISIONS			
	DRAWN <u>VERONICA HOULKER</u>		LINDSEY BERNHANN, P.E. DIRECTOR			RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN			
	CHECKED <u>C. WILKERSON, P.E.</u>	CADD FILE				PROJECT ID: HWK797W FEDERAL AID NO: X772.78	DATE: 3-5-21	SHEET 22 OF 70	42



DESIGNED: RANA APSALAN
DRAWN: VERBCKE HOUWER
CHECKED: C. WILKERSON, P.E.
CADD FILE

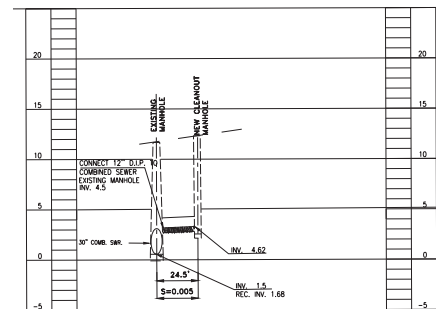
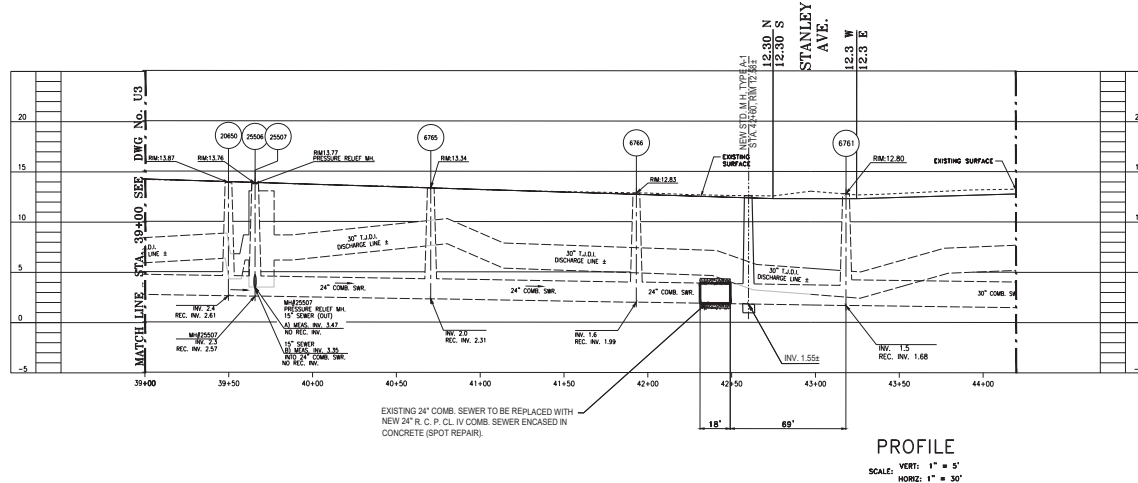
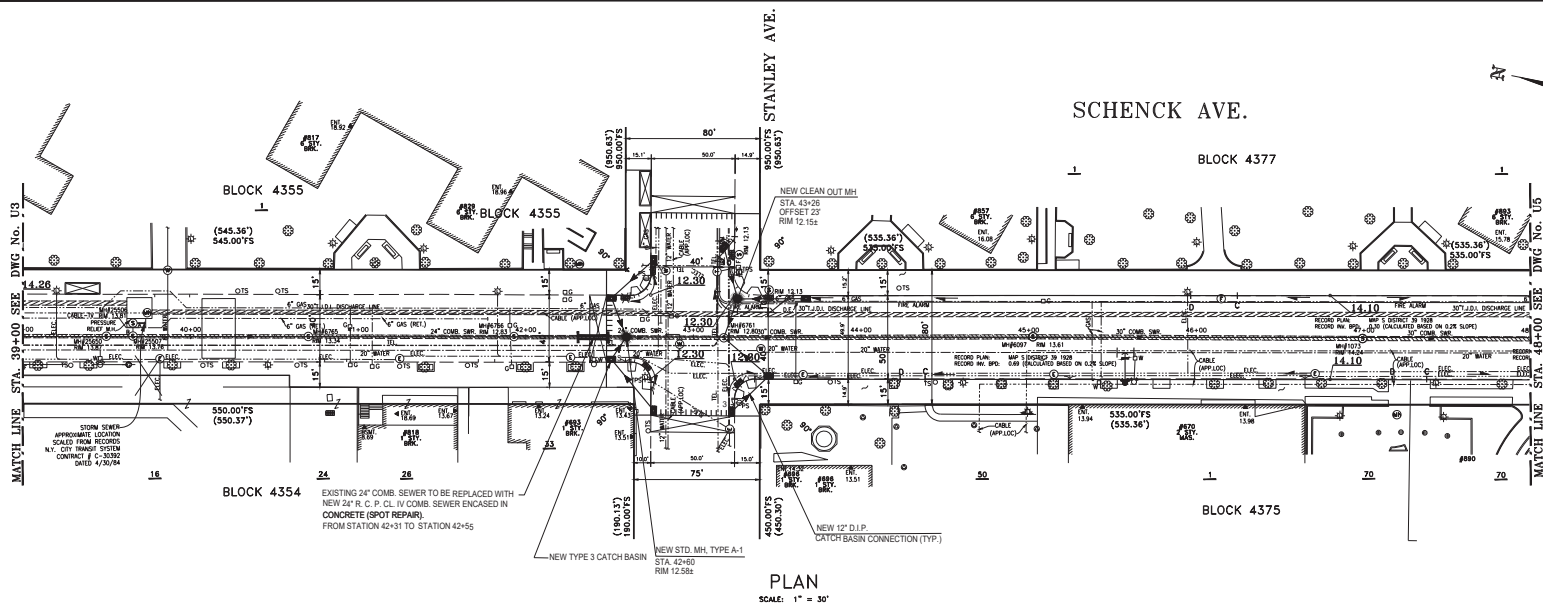
SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

UTILITY PLAN AND PROFILE - 3
SCHENCK AVENUE
FROM STA. 30+00 TO 39+00

NO.	DATE	DESCRIPTIONS	BY	APPRO
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK797W FEDERAL AID NO. X772.78		DATE: 3-5-21	SHEET 23 OF 70	103/107

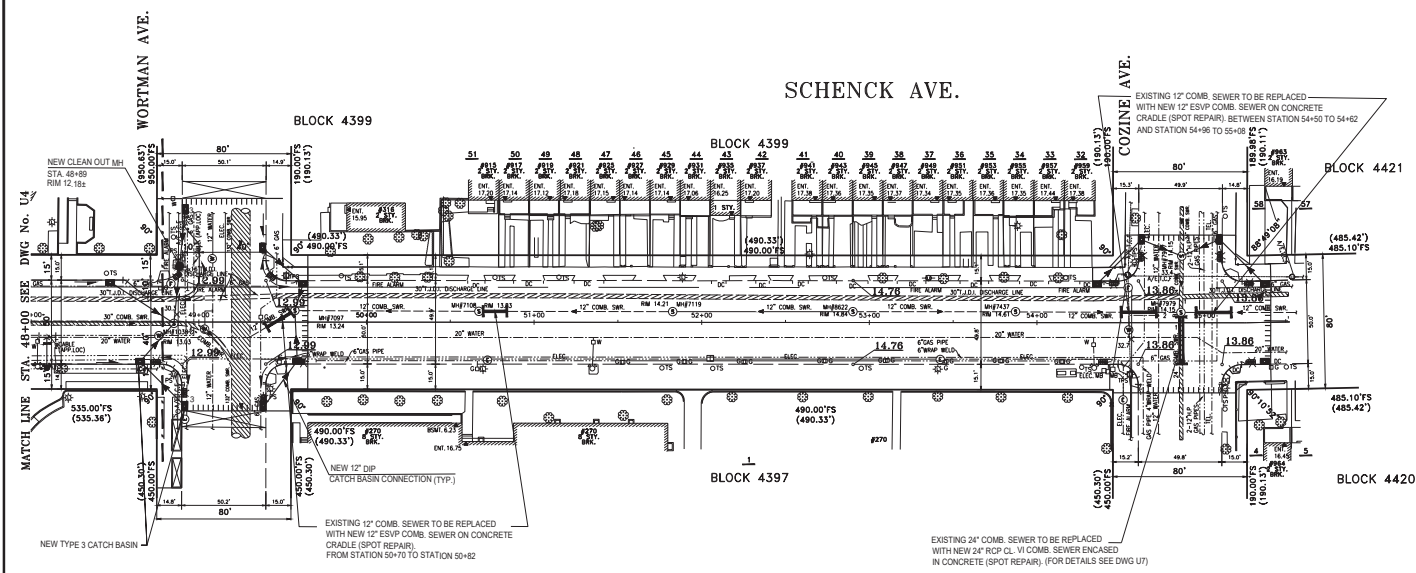


NO.	DATE	DESCRIPTIONS	BY	APPRO'D
		REVISIONS		

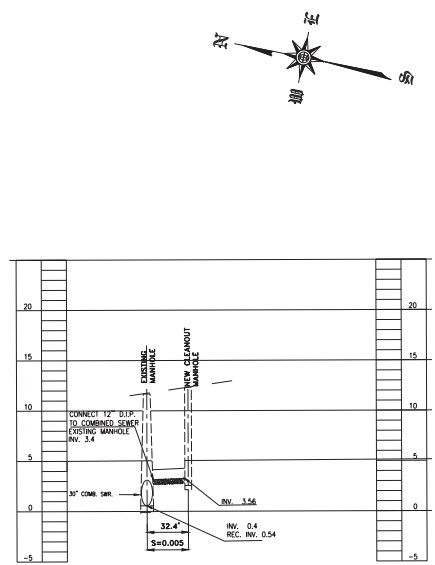
CITY OF NEW YORK DEPARTMENT OF DESIGN + CONSTRUCTION DIVISION OF INFRASTRUCTURE BUREAU OF DESIGN		UTILITY PLAN AND PROFILE - 4 SCHENCK AVENUE FROM STA. 39+00 TO 48+00	
DESIGNED: RANA APSALAN DRAWN: VERBICK HOUWER CHECKED: C. WILKERSON, P.E. SCALE: AS SHOWN CADD FILE:		CORENZO WILKERSON, P.E. ENGINEER-IN-CHARGE LINDSEY BERNHANN, P.E. DIRECTOR	

PROJECT ID: HWK797W FEDERAL AID NO: X772.78	DATE: 3-5-21	SHEET 24 OF 70 107
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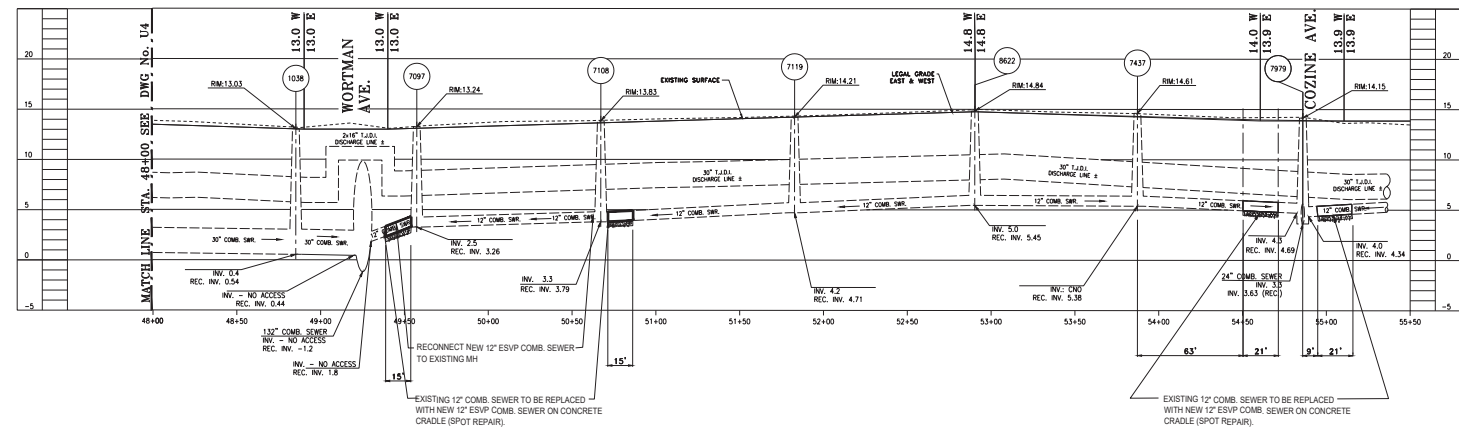




PLAN
SCALE: 1" = 30'



(SEE DWG. U5)
HORIZ. SCALE: 1" = 30'
VERT. SCALE: 1" = 5'



PROFILE A
SCALE: VERT. 1" = 5'
HORIZ. 1" = 30'



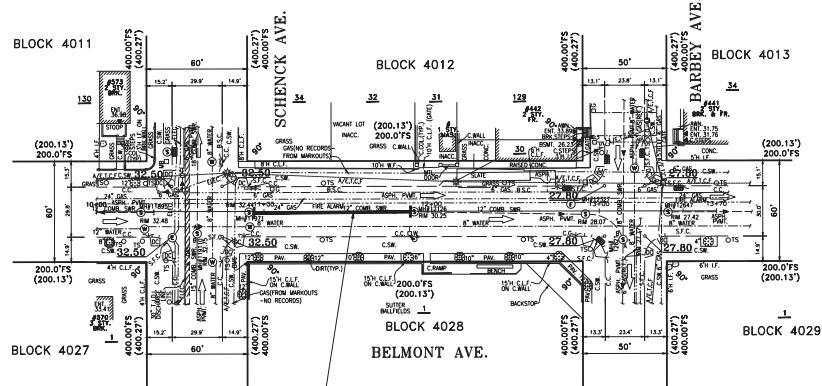
DESIGNED: RANA ABDALAM
DRAWN: VERONICA HOUWER
CHECKED: C. WILKERSON, P.E.
CADD FILE

SCALE: AS SHOWN
CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

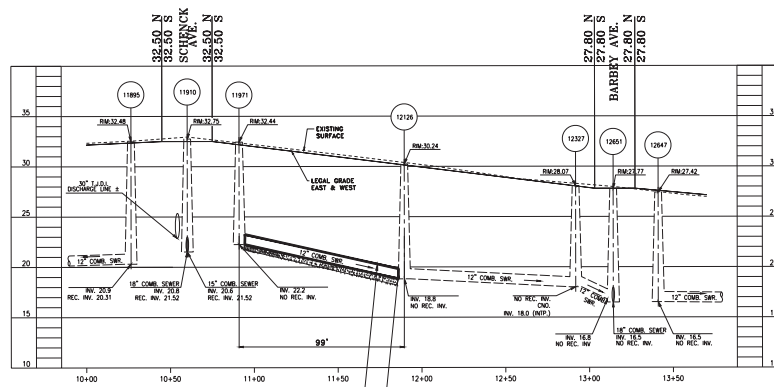
CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

UTILITY PLAN AND PROFILE - 5
SCHENCK AVENUE
FROM STA. 48+00 TO 55+50

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK79W FEDERAL AID NO. X772.78		DATE: 3-5-21	SHEET 25 OF 70 107	



PLAN
SCALE: 1" = 30'



SEWER PROFILE ALONG BELMONT AVE.
SCALE: VERT: 1" = 5'
HORIZ: 1" = 30'

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK007W FEDERAL AID NO: X772.70		DATE: 3-5-21	SHEET 28 OF 70	105



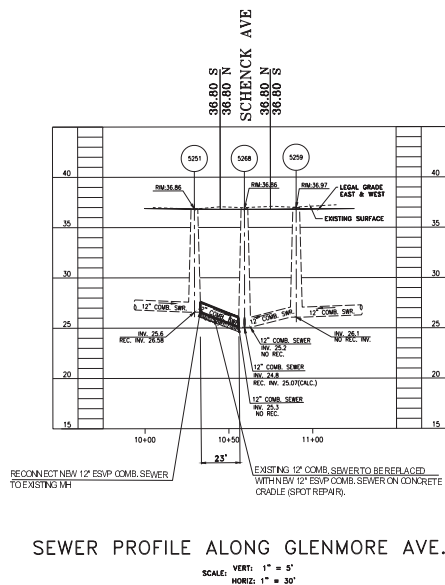
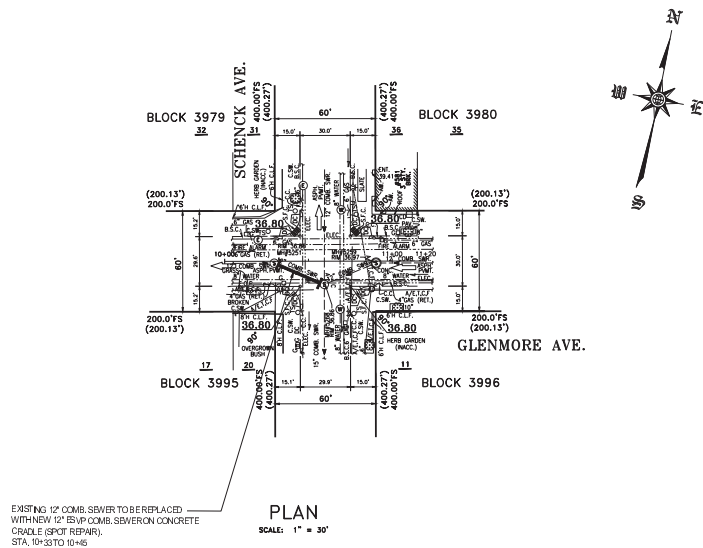
DESIGNED: RANA ABDALAM
DRAWN: VERICKE HOULIKER
CHECKED: C. WILKERSON, P.E.

SCALE
AS SHOWN

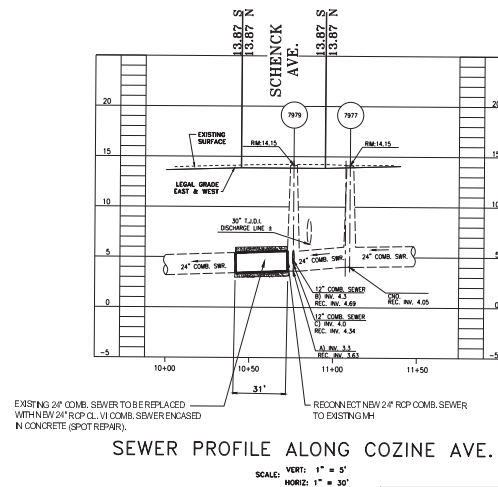
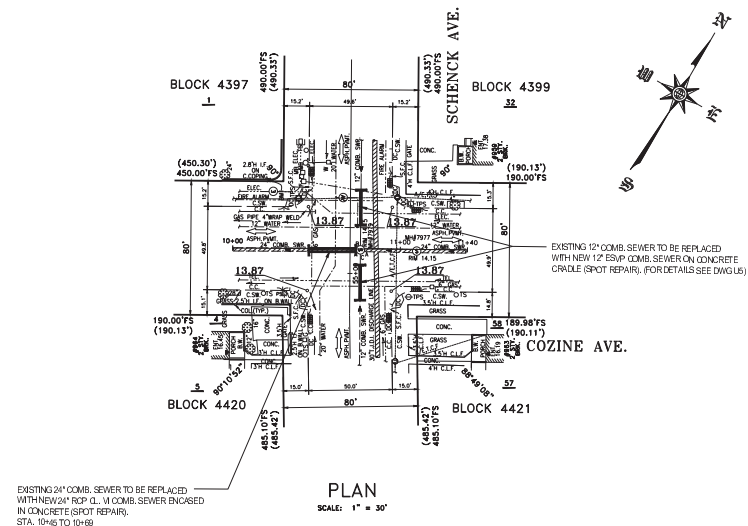
CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

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DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

UTILITY PLAN AND PROFILE - 6
BELMONT AVENUE
FROM STA. 10+00 TO 13+70



SEWER PROFILE ALONG GLENMORE AVE.



SEWER PROFILE ALONG COZINE AVE.



**Department of
Design and
Construction**

DESIGNED: BANA ABDALAM
DRAWN: VERBICK HOUJIKER
CHECKED: C. WILKERSON, P.E.

SCALE
AS SHOWN

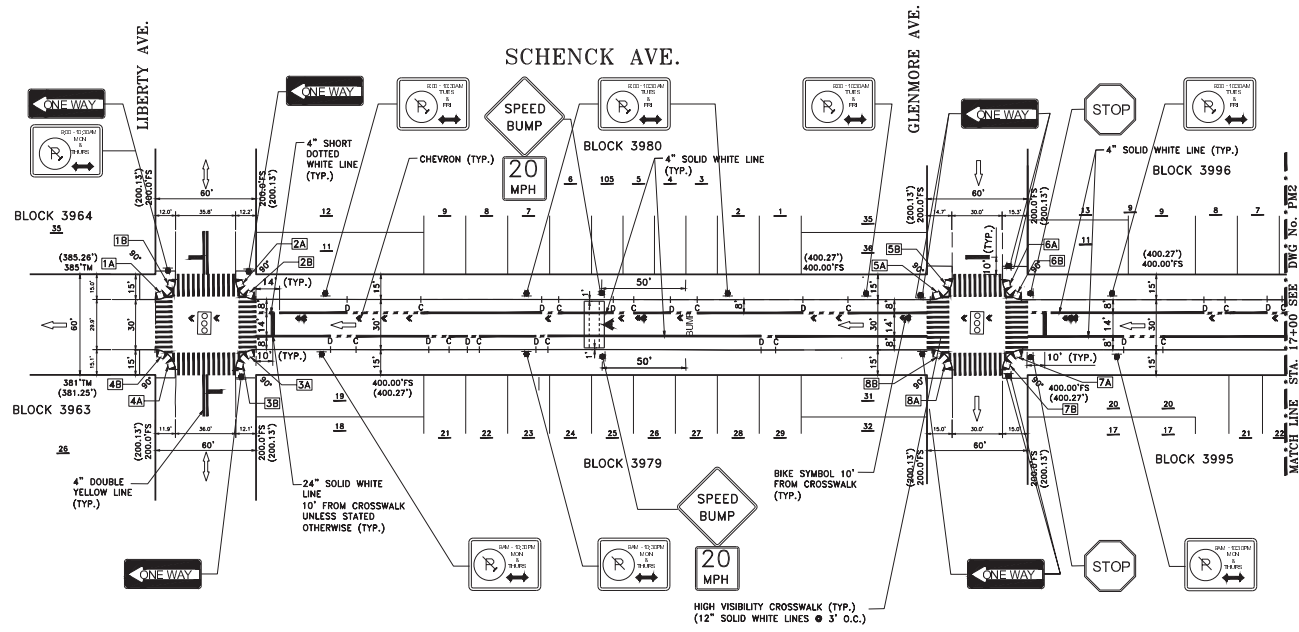
CADD FILE

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERNHAIN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

UTILITY PLAN AND PROFILE - 7
GLENMORE AVENUE AND COZINE AVENUE
INTERSECTIONS WITH SCHENCK AVENUE

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HAWKSW FEDERAL AID NO. 372.70		DATE: 3-5-21	SHEET 27 OF 70	107



PLAN
SCALE: 1" = 30'

LEGEND

8 SIGNAL

#A,#B- PED RAMP DESIGNATION, PLEASE SEE PED RAMP TABLE SHEET 32

NOTE

1. SPEED BUMP PLAN AND PAVEMENT MARKINGS SHOULD BE SUBMITTED TO NYC DOT PRIOR TO IMPLEMENTATION TO DETERMINE COMPLIANCE WITH CURRENT STANDARDS.
2. THE ENGINEER SHALL NOTIFY NYC DOT BUREAU OF TRAFFIC-HIGHWAY CONTROL DIVISION 7 CALENDAR DAYS PRIOR TO START OF WORK ON PAVEMENT MARKINGS.

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				



Department of
Design and
Construction

DESIGNED: RANA ARSALAN
DRAWN: VERONIC HOULIKER
CHECKED: C. WILKINSON P.E.

SCALE
AS SHOWN
CADD FILE

CORENDO WILKINSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

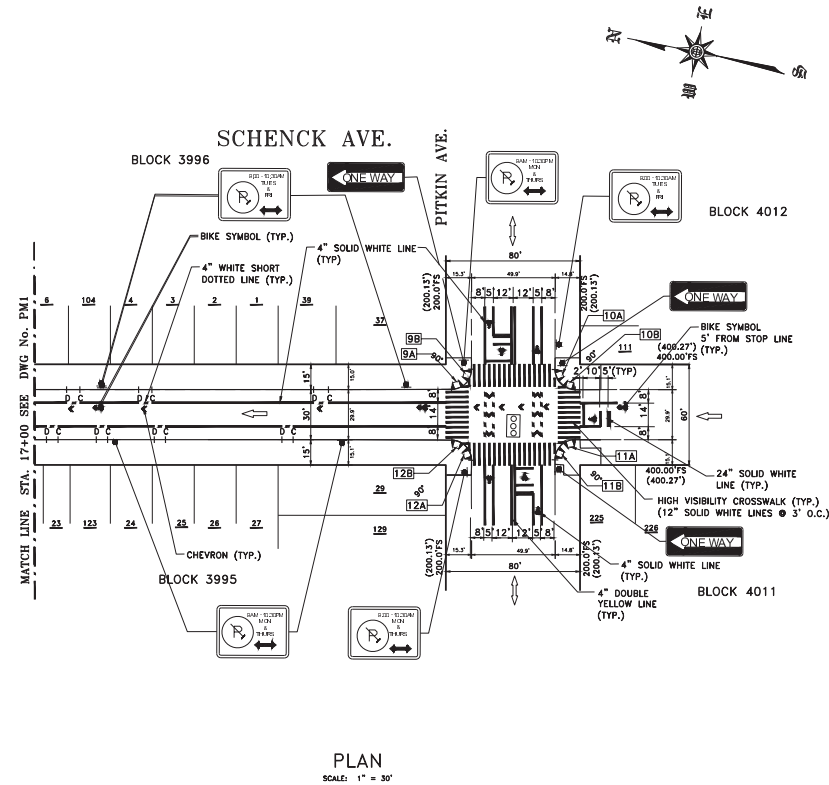
PAVEMENT MARKING PLAN - 1
SCHENCK AVENUE
FROM STA. 10+00 TO 17+00

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HWK99W
FEDERAL AID NO: X772.76

DATE:
3-5-21

SHEET 28 OF 70
PWY
F&M



LEGEND



SIGNAL

#A, #B - PED RAMP DESIGNATION, PLEASE SEE PED RAMP TABLE SHEET 32

NOTE

1. THE ENGINEER SHALL NOTIFY NYC DOT BUREAU OF TRAFFIC-HIGHWAY CONTROL DIVISION 7 CALENDAR DAYS PRIOR TO START OF WORK ON PAVEMENT MARKINGS.

NO.	DATE	DESCRIPTIONS	BY	APPRO'D



DESIGNED BANA ARSALAN
DRAWN VERONICA HOULIKER
CHECKED C. WILKERSON P.E.

SCALE
AS SHOWN

CADD FILE

CORENZO WILKERSON P.E.
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DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

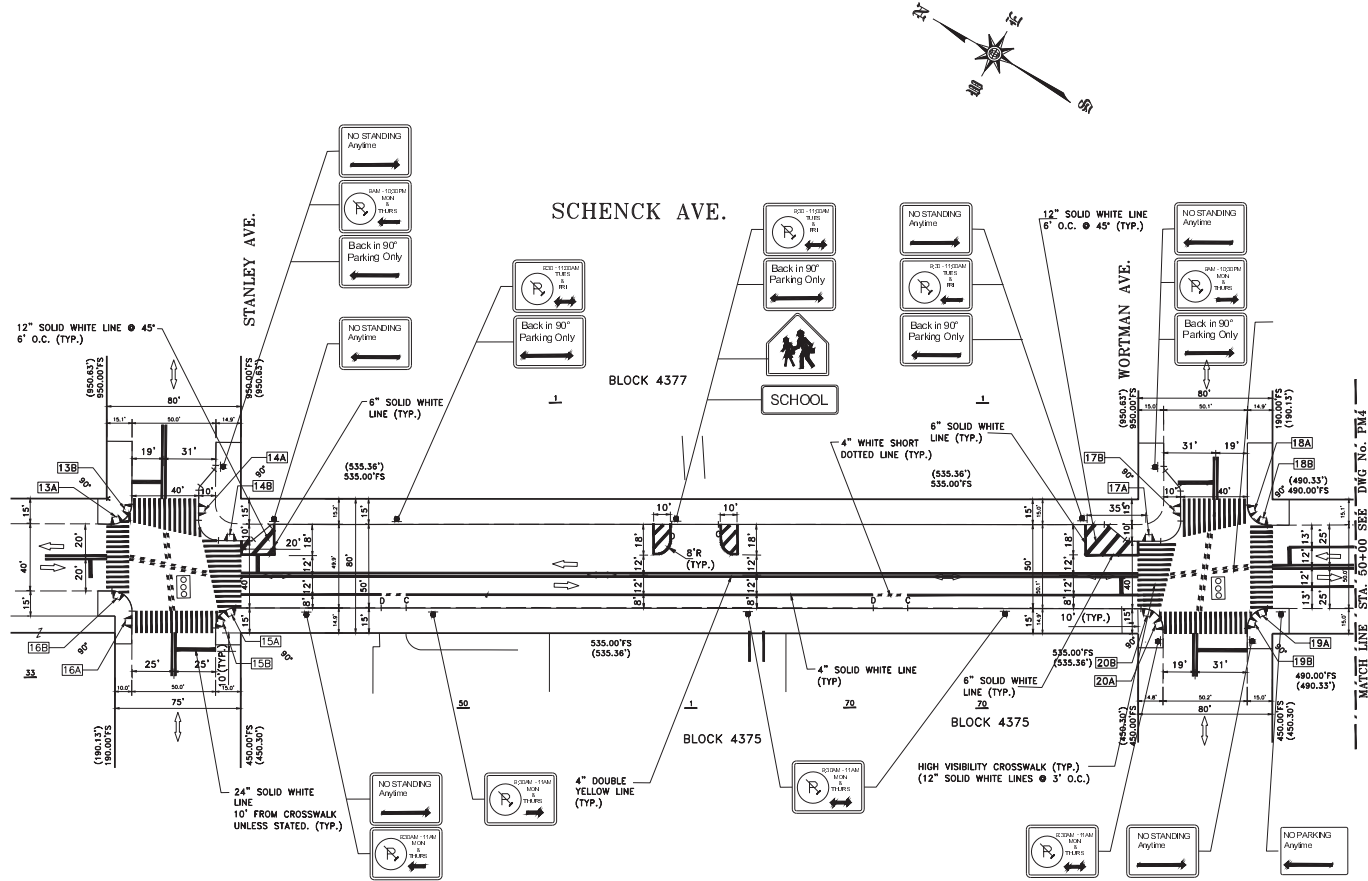
PAVEMENT MARKING PLAN - 2
SCHENCK AVENUE
FROM STA. 17+00 TO 20+50

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HWK097W
FEDERAL AID NO: X772.06

DATE:
3-5-21

SHEET 28 OF 70
PWZ
PMA



PLAN

SCALE: 1" = 30'

LEGEND

□ SIGNAL

#A-#B- PED RAMP DESIGNATION, PLEASE SEE PED RAMP TABLE SHEET 32

NOTE

1. THE ENGINEER SHALL NOTIFY NYC DOT BUREAU OF TRAFFIC-HIGHWAY CONTROL DIVISION 7 CALENDAR DAYS PRIOR TO START OF WORK ON PAVEMENT MARKINGS.

NO.	DATE	DESCRIPTIONS	BY	APP'D
REVISIONS				

RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN			
PROJECT ID: HWK400 FEDERAL AID NO: 772-78	DATE: 3-5-21	SHEET 30 OF 70	PM4

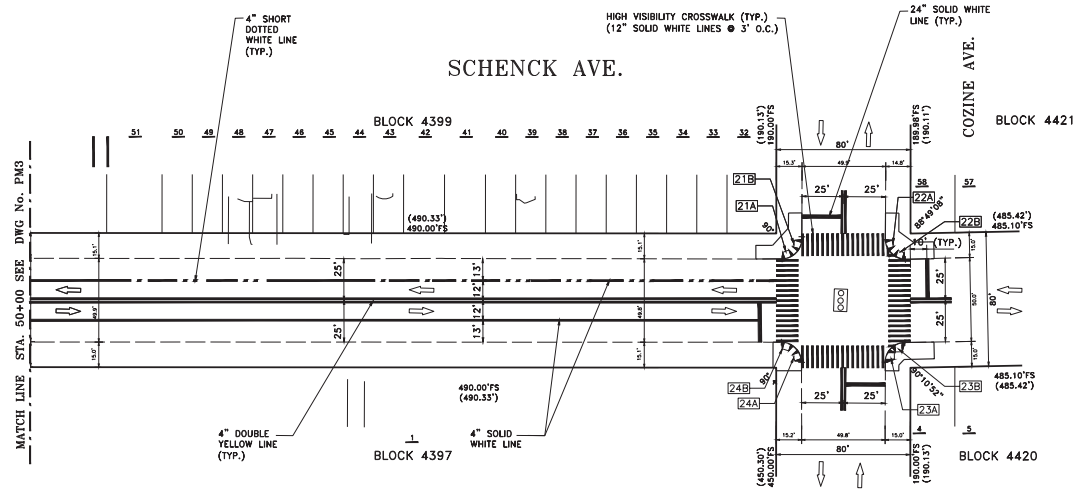


DESIGNED: RANA ARSALAN
DRAWN: VERONIC HOLLKER
CHECKED: C. WILKERSON P.E.
CADD FILE:

SCALE: AS SHOWN
CORENDO WILKERSON P.E.
ENGINEER-IN-CHARGE
LINDSEY BERGMANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

PAVEMENT MARKING PLAN - 3
SCHENCK AVENUE
FROM STA. 42+00 TO 50+00



PLAN
SCALE: 1" = 20'

LEGEND



SIGNAL

#A.#B- PED RAMP DESIGNATION, PLEASE SEE PED RAMP TABLE SHEET 32

NOTE

1. THE ENGINEER SHALL NOTIFY NYC DOT BUREAU OF TRAFFIC-HIGHWAY CONTROL DIVISION 7 CALENDAR DAYS PRIOR TO START OF WORK ON PAVEMENT MARKINGS.

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				



DESIGNED BANA ARSALAN
DRAWN VERICKE HOULIKER
CHECKED C. WILKERSON P.E.

SCALE
AS SHOWN

CADD FILE

CORENZO WILKERSON P.E.
ENGINEER-IN-CHARGE

LINDSEY BERNHAIN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

PAVEMENT MARKING PLAN - 4
SCHENCK AVENUE
FROM STA. 50+00 TO 55+50

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HAWK05AW
FEDER/AL AD NO: 3772.78

DATE:
3-5-21

SHEET 31 OF 70

PM4
PMA

Pedestrian Curb Ramp Summary Table												
Ramp Number	Corner ID	Drawing Number	Ramp Crossing Street	Ramp Parallel Street	Corners Location	Included in Scope of work	Design			Case	TIF Required	Notes
							Simple	Complex	Visible Complexity Issues - including but not limited to			
1A	1116079	PM#1	SCHENCK AVE	LIBERTY AVE	NE	Yes		Yes	FDNY pole to be moved	NYS DOT-Type 7		
1B	1116079	PM#1	LIBERTY AVE	SCHENCK AVE	NE	Yes	Yes			NYS DOT-Type 7		
2A	1116097	PM#1	LIBERTY AVE	SCHENCK AVE	SE	Yes	Yes			NYS DOT-Type 7		
2B	1116097	PM#1	SCHENCK AVE	LIBERTY AVE	SE	Yes	Yes			NYS DOT-Type 7		
3A	1116119	PM#1	SCHENCK AVE	LIBERTY AVE	SW	Yes	Yes			NYS DOT-Type 7		
3B	1116119	PM#1	LIBERTY AVE	SCHENCK AVE	SW	Yes	Yes			NYS DOT-Type 7		
4A	1116084	PM#1	LIBERTY AVE	SCHENCK AVE	NW	Yes		Yes	Utility pole and TSP in the way	NYS DOT-Type 7		
4B	1116084	PM#1	SCHENCK AVE	LIBERTY AVE	NW	Yes	Yes			NYS DOT-Type 7		
5A	1116068	PM#1	SCHENCK AVE	GLENMORE AVE	NE	Yes	Yes			NYS DOT-Type 7		
5B	1116068	PM#1	GLENMORE AVE	SCHENCK AVE	NE	Yes	Yes			NYS DOT-Type 7		
6A	1116088	PM#1	GLENMORE AVE	SCHENCK AVE	SE	Yes	Yes			NYS DOT-Type 7		
6B	1116088	PM#1	SCHENCK AVE	GLENMORE AVE	SE	Yes	Yes			NYS DOT-Type 7		
7A	1116104	PM#1	SCHENCK AVE	GLENMORE AVE	SW	Yes	Yes			NYS DOT-Type 7		
7B	1116104	PM#1	GLENMORE AVE	SCHENCK AVE	SW	Yes	Yes			NYS DOT-Type 7		
8A	1116123	PM#1	GLENMORE AVE	SCHENCK AVE	NW	Yes	Yes			NYS DOT-Type 7		
8B	1116123	PM#1	SCHENCK AVE	GLENMORE AVE	NW	Yes	Yes			NYS DOT-Type 7		
9A	1115925	PM#2	SCHENCK AVE	PITKIN AVE	NE	Yes		Yes	Catch Basin in the crosswalk	NYS DOT-Type 7		
9B	1115925	PM#2	PITKIN AVE	SCHENCK AVE	NE	Yes		Yes	Streetlight interference	NYS DOT-Type 7		
10A	1116254	PM#2	PITKIN AVE	SCHENCK AVE	SE	Yes		Yes	Streetlight interference	NYS DOT-Type 7		
10B	1116254	PM#2	SCHENCK AVE	PITKIN AVE	SE	Yes	Yes			NYS DOT-Type 7		
11A	1116253	PM#2	SCHENCK AVE	PITKIN AVE	SW	Yes		Yes	Catch Basin in the crosswalk	NYS DOT-Type 7		
11B	1116253	PM#2	PITKIN AVE	SCHENCK AVE	SW	Yes	Yes			NYS DOT-Type 7		
12A	1116244	PM#2	PITKIN AVE	SCHENCK AVE	NW	Yes	Yes			NYS DOT-Type 7		
12B	1116244	PM#2	SCHENCK AVE	PITKIN AVE	NW	Yes	Yes			NYS DOT-Type 7		
13A	1117065	PM#3	SCHENCK AVE	STANLEY AVE	NE	Yes	Yes			NYS DOT-Type 7		
13B	1117065	PM#3	STANLEY AVE	SCHENCK AVE	NE	Yes		Yes	Pedestrian signal in crosswalk	NYS DOT-Type 7		
14A	1117066	PM#3	STANLEY AVE	SCHENCK AVE	SE	Yes		Yes	Streetlight interference	NYS DOT-Type 7		
14B	1117066	PM#3	SCHENCK AVE	STANLEY AVE	SE	Yes	Yes			NYS DOT-Type 7		
15A	1117063	PM#3	SCHENCK AVE	STANLEY AVE	SW	Yes	Yes			NYS DOT-Type 7		
15B	1117063	PM#3	STANLEY AVE	SCHENCK AVE	SW	Yes		Yes	Pedestrian signal in crosswalk	NYS DOT-Type 7		
16A	1117064	PM#3	STANLEY AVE	SCHENCK AVE	NW	Yes		Yes	Streetlight interference	NYS DOT-Type 7		
16B	1117064	PM#3	SCHENCK AVE	STANLEY AVE	NW	Yes	Yes			NYS DOT-Type 7		
17A	1116675	PM#3	SCHENCK AVE	WORTMAN AVE	NE	Yes		Yes	Sewer manhole in crosswalk	NYS DOT-Type 7		
17B	1116675	PM#3	WORTMAN AVE	SCHENCK AVE	NE	Yes		Yes	Pedestrian signal in crosswalk	NYS DOT-Type 7		
18A	1116719	PM#3	WORTMAN AVE	SCHENCK AVE	SE	Yes	Yes			NYS DOT-Type 7		
18B	1116719	PM#3	SCHENCK AVE	WORTMAN AVE	SE	Yes		Yes	Pedestrian signal in crosswalk	NYS DOT-Type 7		
19A	1116718	PM#3	SCHENCK AVE	WORTMAN AVE	SW	Yes	Yes			NYS DOT-Type 7		
19B	1116718	PM#3	WORTMAN AVE	SCHENCK AVE	SW	Yes	Yes			NYS DOT-Type 7		
20A	1116717	PM#3	WORTMAN AVE	SCHENCK AVE	NW	Yes	Yes			NYS DOT-Type 7		
20B	1116717	PM#3	SCHENCK AVE	WORTMAN AVE	NW	Yes	Yes			NYS DOT-Type 7		
21A	1116668	PM#4	SCHENCK AVE	COZINE AVE	NE	Yes		Yes	Utility pole in crosswalk	NYS DOT-Type 7		
21B	1116668	PM#4	COZINE AVE	SCHENCK AVE	NE	Yes		Yes	Streetlight interference	NYS DOT-Type 7		
22A	1116714	PM#4	COZINE AVE	SCHENCK AVE	SE	Yes		Yes	Streetlight interference	NYS DOT-Type 7		
22B	1116714	PM#4	SCHENCK AVE	COZINE AVE	SE	Yes	Yes			NYS DOT-Type 7		
23A	1116712	PM#4	COZINE AVE	SCHENCK AVE	SW	Yes		Yes	Fence	NYS DOT-Type 7		
23B	1116712	PM#4	SCHENCK AVE	COZINE AVE	SW	Yes		Yes	Fence	NYS DOT-Type 7		
24A	1116704	PM#4	COZINE AVE	SCHENCK AVE	NW	Yes	Yes			NYS DOT-Type 7		
24B	1116704	PM#4	SCHENCK AVE	COZINE AVE	NW	Yes	Yes			NYS DOT-Type 7		

- NOTES:
- TABLE INCLUDES ALL PEDESTRIAN CURB RAMPS WITHIN THE SURVEY LIMITS INCLUDING RECEIVING RAMPS NOT IN THE PROJECT LIMITS.
 - PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST VERIFY, IN THE FIELD, ALL THE EXISTING FEATURES IMPACTING AND CONTROLLING CONSTRUCTION OF THE ADA COMPLIANT RAMPS, AT NO EXTRA COST TO THE CITY, AND ANY DISCREPANCIES FOUND MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.
 - VALUES FOR DESIGN AND LAYOUT OF PEDESTRIAN FACILITIES SHALL BE IN COMPLIANCE, TO THE GREATEST EXTENT PRACTICABLE, WITH NYSDOT ED 15-004 "DESIGN, CONSTRUCTION AND INSPECTION OF PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY". CONSTRUCTED FACILITIES SHALL MEET STANDARDS IN THE 2011 "PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" (PROWAG), OR BE JUSTIFIED IN ACCORDANCE WITH THE NYSDOT HIGHWAY DESIGN MANUAL, CHAPTER 2, 2.8. IF CONSTRUCTED FACILITIES DO NOT MEET STANDARDS AND ARE NOT JUSTIFIED, THE FACILITIES WILL NEED TO BE REMOVED AND RECONSTRUCTED TO MEET CURRENT STANDARDS AT THE CONTRACTOR'S EXPENSE.
 - 'NOTES' COLUMN SHALL HAVE A SUMMARY OF WHY A TIF IS REQUIRED OR ANY ADDITIONAL INFORMATION, ('NOTES' COLUMN TO BE FILLED OUT BY THE RE).
 - THE DIFFERENTIATION BETWEEN SIMPLE AND COMPLEX PEDESTRIAN RAMPS PROVIDED IN THE PEDESTRIAN CURB RAMP SUMMARY TABLE HAS BEEN MADE BASED ON VISUAL INSPECTIONS. ANY DISCREPANCIES FOUND BY THE CONTRACTOR MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.

LIST OF APPLICABLE STANDARDS THAT MUST BE ADHERED TO INCLUDING BUT NOT LIMITED TO:

- NYSDOT STANDARD SHEETS 608-01 PEDESTRIAN FACILITIES
- NYSDOT STANDARD SHEETS 608-03 RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS

NOTE: COMPLEXITY ISSUES SPECIFIED WILL BE RELOCATED AS PER THE DRAWING, AND NO MODIFIED DESIGNS WILL BE REQUIRED.

NO.	DATE	DESCRIPTIONS	BY	APPRO'D	
REVISIONS					



DESIGNED BANA ABDALAM

DRAWN VERBCKE HOUJIKER

CHECKED C. WILKINSON P.E.

SCALE
AS SHOWN

CADD FILE

CORENZO WILKINSON P.E.
ENGINEER-IN-CHARGE

LINDSEY BERNHAIN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

PEDESTRIAN CURB RAMP SUMMARY TABLE
SCHENCK AVENUE

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HWK2070N
FEDERAL AID NO: X77276

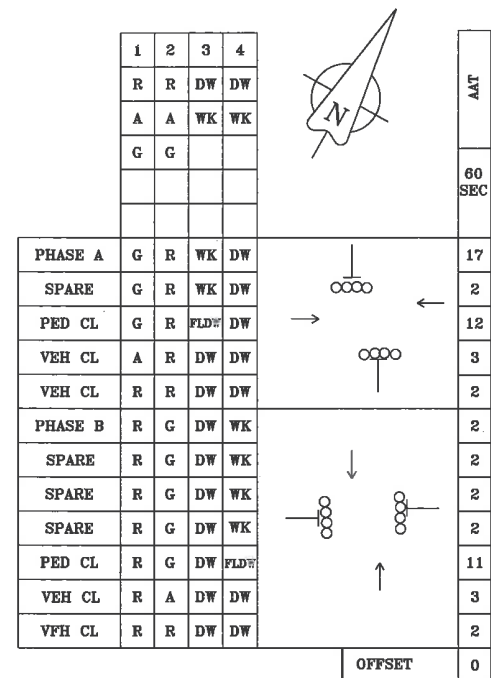
DATE: 3-5-21

SHEET 32 OF 70

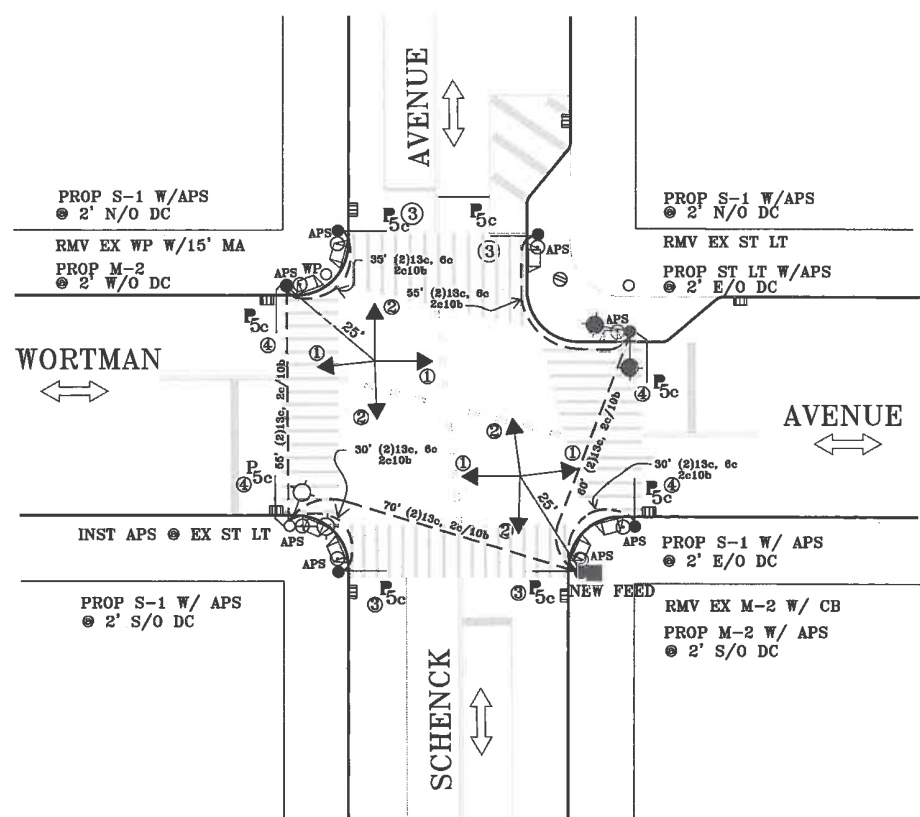
PR1

PR11

B+H/CUE DESIGN



SHEET 1A OF TS1



	1	2	3	4		AT ALL TIMES
	R	R	DW	DW		60 SEC
	A	A	WK	WK		
	G	G				
PHASE A	G	R	WK	DW		10
SPARE	G	R	WK	DW		2
PED CL	G	R	FLDW	DW		13
VEH CL	A	R	DW	DW		3
VEH CL	R	R	DW	DW		2
PHASE B	R	G	DW	WK		6
SPARE	R	G	DW	WK		2
SPARE	R	G	DW	WK		2
SPARE	R	G	DW	WK		2
PED CL	R	G	DW	FLDW		13
VEH CL	R	A	DW	DW		3
VEH CL	R	R	DW	DW		2
OFFSET						0

LEGEND

	PROPOSED	EXISTING		
Signal Face			Louvers	
Ped Signal			Long Visors	
Signal Post			Mount Faces at 14'	
Pushbutton			Hydrant	
Control Box			Tree	
Street Light			El Column	
Pullbox			Service Point	
Woodpole			2 Wires for St.Lt.	
2" Conduit			Catch Basin	
Overhead Cable			Tel.Manhole	
Parking Meter			Mail Box	
			Fire Alarm	

TEMPORARY NOTES:

1. BEFORE CONSTRUCTION COMMENCES CONTRACTOR MUST INSTALL OVERHEAD SIGNAL CABLE KEEPING INTERSECTION OPERATIONAL DURING EXCAVATION.
2. WHEN SIGNAL POLES ARE REMOVED DURING CONSTRUCTION CONTRACTOR MUST INSTALL TEMPORARY CONCRETE PYLON AT NW, NE & SE CORNERS. THE VEHICULAR AND OR PEDESTRIAN SIGNALS MUST BE CLEARLY VISIBLE WITH NO OBSTRUCTIONS

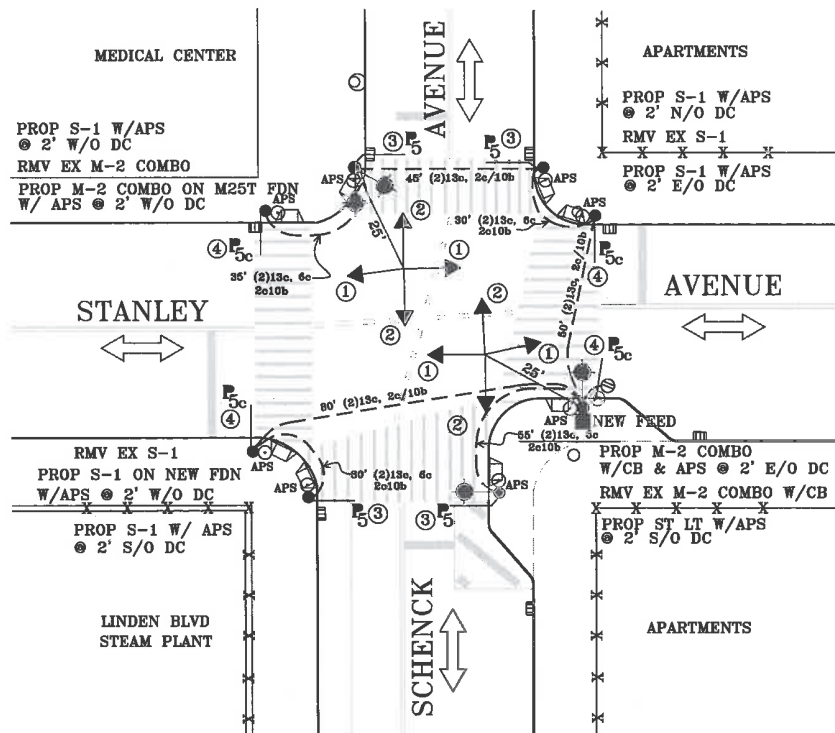
NOTES:

1. REUSE EXISTING ASTC-6 TYPE NON ACTUATED CONTROLLER (CABINET ADDRESS: 6142)
2. NEW FEED
3. ALL VEHICULAR AND PEDESTRIAN SIGNALS TO BE LEDs
4. - PEDESTRIAN COUNTDOWN SIGNALS
5. - ACCESSIBLE PEDESTRIAN SIGNAL

C:\TEMPORARY SIGNALS\BK\RECONSTRUCTION OF SHENCK AVENUE HWK797W\DOT DESIGN\AAEQR000

RELEASED
OCT 24, 2019
HY-2019 E#72

7			
6			
5			
4			
3	10/19	TV	INSTALL SIGS AS SHOWN/HWK797W
2	8/19	TV	SHOWN EXISTING
1	2/2/76		VOID LG 2183K
NO	DATE	BY	DESCRIPTION
			REVISION
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101			
WORTMAN AVENUE @ SCHENCK AVENUE			
Drawn By	SCALE 1" = 30'	DRAWING NO.	
DY	Date 8/19	LB 16210K	



LEGEND

	PROPOSED	EXISTING		
Signal Face	→	→	Louvers	→
Ped Signal	→	→	Long Visors	→
Signal Post	→	→	Mount Face at 14'	H
Pushbutton	→	→	Hydrant	→
Control Box	→	→	Tree	→
Street Light	→	→	El Column	I
Pullbox	→	→	Service Point	F
Woodpole	→	→	2Wires for St.Lt.	→
2"Conduit	→	→	Catch Basin	→
Overhead Cable	→	→	Tel.Manhole	→
Parking Meter	→	→	Mail Box	→
			Fire Alarm	→

TEMPORARY NOTES:

1. BEFORE CONSTRUCTION COMMENCES CONTRACTOR MUST INSTALL OVERHEAD SIGNAL CABLE KEEPING INTERSECTION OPERATIONAL DURING EXCAVATION.
2. WHEN SIGNAL POLES ARE REMOVED DURING CONSTRUCTION CONTRACTOR MUST INSTALL TEMPORARY CONCRETE PYLON AT NW, NE & SE CORNERS. THE VEHICULAR AND OR PEDESTRIAN SIGNALS MUST BE CLEARLY VISIBLE WITH NO OBSTRUCTIONS

NOTES:

1. REUSE EXISTING ASTC-6 TYPE NON ACTUATED CONTROLLER (CABINET ADDRESS: 6141)
2. NEW FEED
3. ALL VEHICULAR AND PEDESTRIAN SIGNALS TO BE LED's
4. → - PEDESTRIAN COUNTDOWN SIGNAL
5. → - ACCESSIBLE PEDESTRIAN SIGNAL
6. MAINTAIN EXISTING MH ENTRY (IF AVAILABLE)

O:\TEMPORARY SIGNALS\BK\RECONSTRUCTION OF SCHENCK AVENUE HWK797\DOT DESIGN\AAECC000

1	2	3	4
R	R	DW	DW
A	A	WK	WK
G	G		



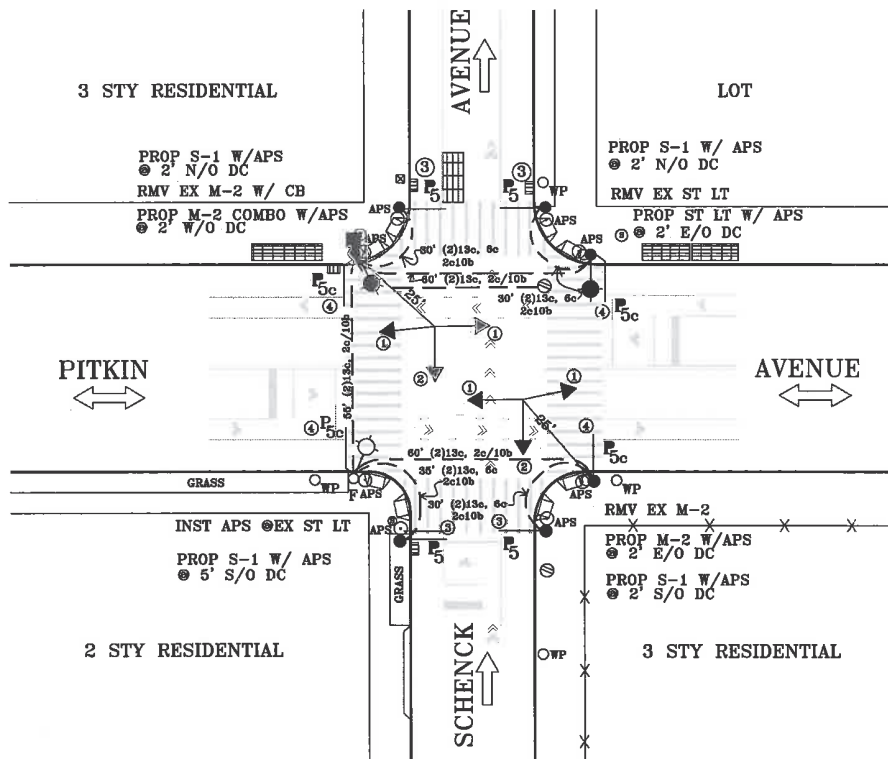
PHASE A	G	R	WK	DW		AT AL TIMES
SPARE	G	R	WK	DW	→	21
PED CL	G	R	FLDW	DW	→	2
VEH CL	A	R	DW	DW	→	17
VEH CL	R	R	DW	DW	→	3
PHASE B	R	G	DW	WK	↓	2
SPARE	R	G	DW	WK	↓	19
SPARE	R	G	DW	WK	↓	2
SPARE	R	G	DW	WK	↓	2
PED CL	R	G	DW	FLDW	↓	15
VEH CL	R	A	DW	DW	↓	3
VEH CL	R	R	DW	DW	↓	2
					↑	OFFSET
						0

RELEASED

OCT 24, 2019

HY-2019 E#73

7			
6			
5			
4	10/19	TV	INSTALL SIGS AS SHOWN/HWK797W
3	8/19	TV	SHOWN EXISTING
2	11/17	DY	REDRAWN
1	04/81	KP	MODERNIZE
NO	DATE	BY	DESCRIPTION
REVISION			
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101			
STANLEY AVENUE @ SCHENCK AVENUE			
Drawn By	SCALE 1" = 30'	DRAWING NO.	
DY	Date 03/74	LB 8403K	



LEGEND

	PROPOSED	EXISTING	
Signal Face			Louvers
Ped Signal			Long Visors
Signal Post			Mount Face at 14'
Pushbutton			Hydrant
Control Box			Tree
Street Light			El Column
Pullbox			Service Point
Woodpole			2wires for St.Lt.
2"Conduit			Catch Basin
Overhead Cable			Tel.Manhole
Parking Meter			Mail Box
			Fire Alarm

TEMPORARY NOTES:

- BEFORE CONSTRUCTION COMMENCES CONTRACTOR MUST INSTALL OVERHEAD SIGNAL CABLE KEEPING INTERSECTION OPERATIONAL DURING EXCAVATION.
- WHEN SIGNAL POLES ARE REMOVED DURING CONSTRUCTION CONTRACTOR MUST INSTALL TEMPORARY CONCRETE PYLON AT NW, NE & SE CORNERS. THE VEHICULAR AND OR PEDESTRIAN SIGNALS MUST BE CLEARLY VISIBLE WITH NO OBSTRUCTIONS

NOTES:

- REUSE EXISTING ASTC-6 TYPE NON ACTUATED CONTROLLER (CABINET ADDRESS: 5F33).
- USE EXISTING FEED
- ALL VEHICULAR AND PEDESTRIAN SIGNALS TO BE LEDs
- PEDESTRIAN COUNTDOWN SIGNAL
- ACCESSIBLE PEDESTRIAN SIGNAL
- MAINTAIN EXISTING MH ENTRY (IF AVAILABLE)

C:\TEMPORARY SIGNALS\BK\RECONSTRUCTION OF SCHENCK AVENUE HWK797W\DOT DESIGN\BK000413

RELEASED

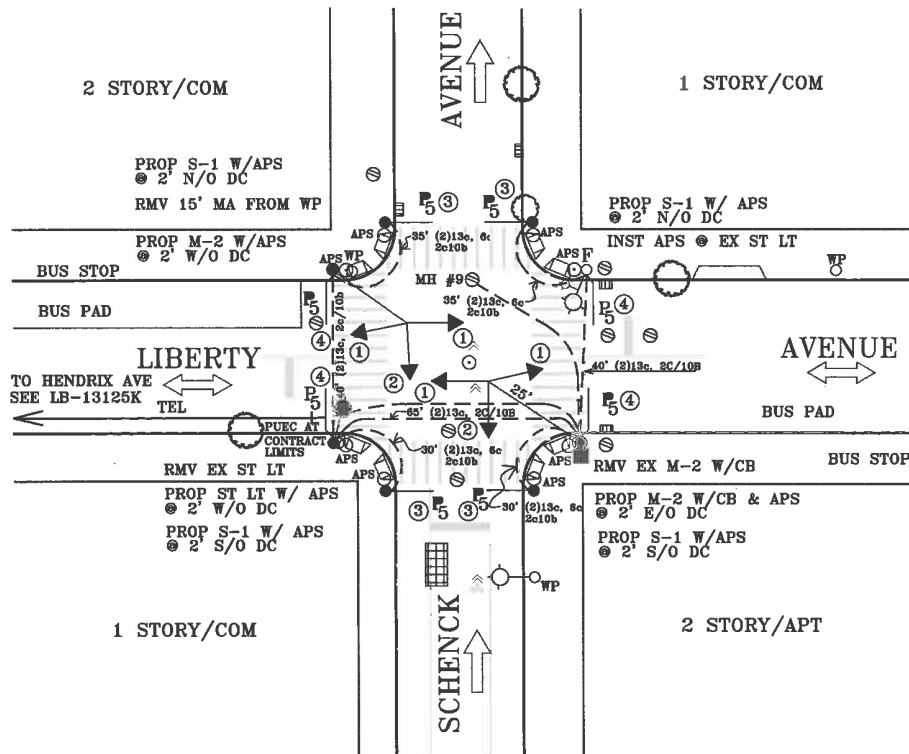
OCT 24, 2019

HY-2019 E#74



	1	2	3	4		MON-FRI 05:30-10:30	MON-FRI 10:30-15:00 15:30-00:00 WEEKEND 07:00-01:30	MON-FRI 15:00-19:30	MON-FRI 00:00-05:30 WEEKEND
	R	R	DW	DW					
	A	A	WK	WK					
	G	G							
PHASE A	G	R	WK	DW		22	22	22	16
SPARE	G	R	WK	DW		2	2	2	2
PED CL	G	R	FLD	DW		7	7	7	7
VEH CL	A	R	DW	DW		3	3	3	3
VEH CL	R	R	DW	DW		2	2	2	2
PHASE B	R	G	DW	WK		1	1	1	7
SPARE	R	G	DW	WK		2	2	2	2
SPARE	R	G	DW	WK		2	2	2	2
SPARE	R	G	DW	WK		2	2	2	2
PED CL	R	G	DW	FLDW		12	12	12	12
VEH CL	R	A	DW	DW	3	3	3	3	
VEH CL	R	R	DW	DW	2	2	2	2	
RELEASED						OFFSET			
						5	12	23	21

7			
6			
5	10/19	TV	INSTALL SIGS AS SHOWN/HWK797W
4	8/19	TV	SHOWN EXISTING
3	02/16	MM	MODIFY TIMING/PHASING
2	02/15	LG	INST. PED. COUNTDOWN SIG'S
1	6/98	JH	INSTALL ADD'L SIGNALS
NO	DATE	BY	DESCRIPTION
REVISION			
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101			
PITKIN AVENUE @ SCHENCK AVENUE			
Drawn By	SCALE 1" = 30'	DRAWING NO.	
JH	Date 11/96	LB 12022K	



LEGEND

	PROPOSED	EXISTING	
Signal Face	→	→	Louvers
Ped Signal	→	→	Long Visors
Signal Post	5	5	Mount Face at 14'
Pushbutton	P	P	Hydrant
Control Box	□	□	Tree
Street Light	●	○	El Column
Pullbox	■	■	Service Point
Woodpole	WP	WP	2Wires for St.Lt.
2"Conduit	---	---	Catch Basin
Overhead Cable	---	---	Tel.Manhole
Parking Meter	○	○	Mail Box
			Fire Alarm

TEMPORARY NOTES:

1. BEFORE CONSTRUCTION COMMENCES CONTRACTOR MUST INSTALL OVERHEAD SIGNAL CABLE KEEPING INTERSECTION OPERATIONAL DURING EXCAVATION.
2. WHEN SIGNAL POLES ARE REMOVED DURING CONSTRUCTION CONTRACTOR MUST INSTALL TEMPORARY CONCRETE PYLON AT NW, SW & SE CORNERS. THE VEHICULAR AND OR PEDESTRIAN SIGNALS MUST BE CLEARLY VISIBLE WITH NO OBSTRUCTIONS

NOTES:

1. REUSE EXISTING ASTC-6 TYPE NON ACTUATED CONTROLLER (CABINET ADDRESS: 5EF2)
2. USE EXISTING FEED.
3. ALL VEHICULAR AND PEDESTRIAN SIGNALS TO BE LEDS
4. APS-ACCESSIBLE PEDESTRIAN SIGNAL
5. MAINTAIN EXISTING MH ENTRY

O:\TEMPORARY SIGNALS\BK\RECONSTRUCTION OF SCHENCK AVENUE HWK797W\DOT DESIGN\BK000275

RELEASED

OCT 24, 2019

HY-2019 E#75

7			
6			
5			
4			
3	10/19	TV	INSTALL SIGS AS SHOWN/HWK797W
2	8/19	TV	SHOWN EXISTING
1	1/03	SM	AS BUILT
NO	DATE	BY	DESCRIPTION
			REVISION
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS 34-02 QUEENS BLVD L.I.C., N.Y. 11101			
LIBERTY AVENUE @ SCHENCK AVENUE			
Drawn By E.B.	SCALE 1" = 30'	DRAWING NO.	
	Date 06/01	LB 13126K	

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CITY OF NEW YORK BUREAU OF TRAFFIC OPERATIONS 34-02 Queens Blvd. Long Island City, NY 11101								ACCESSIBLE PEDESTRIAN SIGNAL NOTES: NON - ACTUATED CABINET TYPE : ASTC-6 PC: 3.0 FT/ SEC INTERVAL PROGRAM CABINET ADDRESS: 6120 PEDESTRIAN COUNTDOWN		OFFSET																																	
										0																																	
								COZINE AVENUE @ SCHENCK AVENUE				Prep. <u>M.Kobets</u> Date <u>10/15/19</u>																															
												Appr. <u>N. S. Brachy</u> Date <u>10-16-19</u>																															
								10/19 MK ADD ACCESSIBLE PEDESTRIAN SIGNAL																																			
								DATE BY REVISIONS																																			

CABINET ADDRESS 6120

LOAD SWITCHES ASSIGNMENT

L/S1	L/S2	L/S3	L/S4	L/S5	L/S6
R ₁	R ₂			DW ₁	DW ₂
A ₁	A ₂				
G ₁	G ₂			WK ₁	WK ₂

FLASHING OUTPUT CONFIGURATION

FP1 = A

FP2 = R

FP3 = R

FP4 = R

CONFLICT MONITOR PROGRAMMING

a) DIODES CUT

1-13, 2-14

b) YELLOW DISABLE JUMPERS:

13 & 14 & 15 & 16

c) DIP SWITCHES ASSIGNMENT:

SW 1								CONFIG. SW (FIXED)								SW2							
ON																							
OFF																							
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8

SW 3								PLUS FEATURE SW								SW4							
ON																							
OFF																							
X	X															X	X						
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8

CONFIG. SW (FIXED) USE FOR SIEMENS/EDI CMU											
ON											
OFF											
X				X				X			
1	2	3	4	5	6	7	8	9	10	11	12

10/19	MK	ADD ACCESSIBLE PEDESTRIAN SIGNAL
DATE	BY	REVISIONS

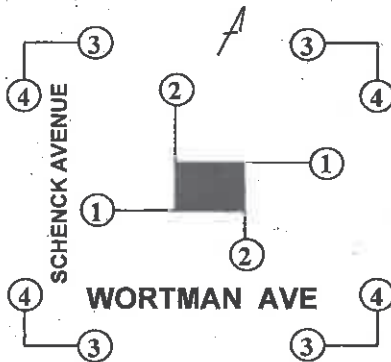
NOTES: NON - ACTUATED

CITY OF NEW YORK
BUREAU OF TRAFFIC OPERATIONS
34-02 Queens Blvd, Long Island City, NY 11101

COZINE AVENUE @ SCHENCK AVENUE

Prep. M.Kobets Date 10/15/19
Appr. *[Signature]* Date 10-16-19

BOROUGH
BK

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34-02 Queens Blvd. Long Island City, NY 11101								ACCESSIBLE PEDESTRIAN SIGNAL		OFFSET																																																							
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10/19 MK ADD ACCESSIBLE & PEDESTRIAN COUNTDOWN SIGNALS								Prep. M.Kobets Date 10/16/19																																																									
DATE BY REVISIONS								Appr. N. Sybrandy Date 10-16-19																																																									

CABINET ADDRESS: 6142

LOAD SWITCHES ASSIGNMENT

L/S1	L/S2	L/S3	L/S4	L/S5	L/S6
R ₁	R ₂			DW ₁	DW ₂
A ₁	A ₂				
G ₁	G ₂			WK ₁	WK ₂

FLASHING OUTPUT CONFIGURATION

FP1 = A

FP2 = R

FP3 = R

FP4 = R

CONFLICT MONITOR PROGRAMMING

a) DIODES CUT

1-13, 2-14

b) YELLOW DISABLE JUMPERS:

13 & 14 & 15 & 16

c) DIP SWITCHES ASSIGNMENT:

	SW 1	CONFIG. SW (FIXED)	SW2																															
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	SW 3	PLUS FEATURE SW	SW4																															
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	X	X		X	X	X	X	X	X	X																								

10/19	MK	ADD ACCESSIBLE & PEDESTRIAN COUNTDOWN SIGNALS
DATE BY		REVISIONS

NOTES: NON-ACTUATED

CABINET TYPE: ASTC-6

CITY OF NEW YORK
BUREAU OF TRAFFIC OPERATIONS
34-02 Queens Blvd, Long Island City, NY 11101

WORTMAN AVENUE @
SCHENCK AVENUE

Prep. M.Kobets Date 10/16/19
Appr. *X-S-Brady* Date 10-16-19

BK

CABINET ADDRESS: 6141

LOAD SWITCHES ASSIGNMENT

L/S1	L/S2	L/S3	L/S4	L/S5	L/S6
R ₁	R ₂			DW ₁	DW ₂
A ₁	A ₂				
G ₁	G ₂			WK ₁	WK ₂

FLASHING OUTPUT CONFIGURATION

FP1 = A

FP2 = R

FP3 = R

FP4 = R

CONFLICT MONITOR PROGRAMMING

a) DIODES CUT

1-13, 2-14

b) YELLOW DISABLE JUMPERS:

13 & 14 & 15 & 16

c) DIP SWITCHES ASSIGNMENT:

	SW 1	CONFIG. SW (FIXED)	SW2																																					
ON	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>									X	X	X	X	X	X	X	X	<table><tr><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr></table>				X	X	X	X	X	X	X	X											
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1	2	3	4	5	6	7	8	9	10	11	12																													

10/19	MK	ADD ACCESSIBLE & PEDESTRIAN COUNTDOWN SIGNALS
DATE	BY	REVISIONS

NOTES: NON-ACTUATED

CABINET TYPE: ASTC-6

CITY OF NEW YORK
BUREAU OF TRAFFIC OPERATIONS
34-02 Queens Blvd, Long Island City, NY 11101

STANLEY AVENUE @
SCHENCK AVENUE

Prep. M.Kobets Date 10/16/19
Appr. *X-55* Date 10-16-19

BK

									<div style="display: flex; justify-content: space-around;"> 1 2 3 4 </div>								
		1	2	3	4	5	6	7	8								
		R	R	DW	DW												
		A	A	WK	WK												
		G	G														
L/S #		1	2	5	6												
NEMA		1	2	1P	2P												
PHASE A		G	R	WK	DW												
SPARE		G	R	WK	DW												
PED CL		G	R	FLDW	DW												
VEH CL		A	R	DW	DW												
VEH CL		R	R	DW	DW												
PHASE B		R	G	DW	WK												
SPARE		R	G	DW	WK												
SPARE		R	G	DW	WK												
SPARE		R	G	DW	WK												
PED CL		R	G	DW	FLDW												
VEH CL		R	A	DW	DW												
VEH CL		R	R	DW	DW												
CITY OF NEW YORK BUREAU OF TRAFFIC OPERATIONS 34-02 Queens Blvd. Long Island City, NY 11101										ACCESSIBLE PEDESTRIAN SIGNAL NOTES: NON-ACTUATED PC = 3.0 FT/SEC INTERVAL PROGRAM PEDESTRIAN COUNTDOWN CABINET TYPE: ASTC-6 CABINET ADDRESS: 5F33				<div style="display: flex; justify-content: space-between;"> <div>MON-FRI 05:30-10:30</div> <div>MON-FRI 10:30-15:00 19:30-00:00 WEEKEND 07:00-01:30</div> <div>MON-FRI 15:00-19:30</div> <div>MON-FRI 00:00-05:30 WEEKEND 01:30-07:00</div> </div>			
														<div style="display: flex; justify-content: space-between;"> <div>60 SEC</div> <div>60 SEC</div> <div>60 SEC</div> <div>60 SEC</div> </div>			
														<div style="display: flex; justify-content: space-between;"> <div>22</div> <div>22</div> <div>22</div> <div>16</div> </div>			
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										<div style="display: flex; justify-content: space-between;"> <div>36</div> <div>36</div> <div>36</div> <div>30</div> </div>							
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										PITKIN AVENUE @ SCHENCK AVENUE							
<div style="display: flex; justify-content: space-between;"> <div>10/19</div> <div>MK</div> <div>ADD ACCESSIBLE PEDESTRIAN SIGNAL</div> </div>										<div style="display: flex; justify-content: space-between;"> <div>Prep.</div> <div>M.Kobets</div> <div>Date</div> <div>10/16/19</div> </div>							
										<div style="display: flex; justify-content: space-between;"> <div>Appr.</div> <div><i>N. Ibrahim</i></div> <div>Date</div> <div>10-16-19</div> </div>							
DATE	BY	REVISIONS															

CABINET ADDRESS: 5F33

LOAD SWITCHES ASSIGNMENT

L/S1	L/S2	L/S3	L/S4	L/S5	L/S6
R ₁	R ₂			DW ₁	DW ₂
A ₁	A ₂				
G ₁	G ₂			WK ₁	WK ₂

FLASHING OUTPUT CONFIGURATION

FP1 = A

FP2 = R

FP3 = R

FP4 = R

CONFLICT MONITOR PROGRAMMING

a) DIODES CUT

1-13, 2-14

b) YELLOW DISABLE JUMPERS:

13 & 14 & 15 & 16

c) DIP SWITCHES ASSIGNMENT:

		SW 1								CONFIG. SW (FIXED)								SW2									
ON																					X	X	X	X	X	X	
OFF		X	X	X	X	X	X	X	X	X	X						X	X	X								
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8

		SW 3								PLUS FEATURE SW								SW4									
ON		X	X																				X	X			
OFF				X	X	X	X	X	X	X	X	X					X	X	X	X					X	X	
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8

		CONFIG. SW (FIXED) USE FOR SIEMENS/EDI CMU											
(SIEMENS/ EDI)	ON	X				X				X			
	OFF		X	X			X	X		X	X	X	X
		1	2	3	4	5	6	7	8	9	10	11	12

10/19	MK	ADD ACCESSIBLE PEDESTRIAN SIGNAL
DATE	BY	REVISIONS

NOTES: NON-ACTUATED

CABINET TYPE: ASTC-6

**CITY OF NEW YORK
BUREAU OF TRAFFIC OPERATIONS
34-02 Queens Blvd, Long Island City, NY 11101**

**PITKIN AVENUE @
SCHENCK AVENUE**

Prep. M.Kobets Date 10/16/19
Appr. *Albro* Date 10-16-19

BK

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NEMA	1	2	1P	2P																																																						
PHASE A	G	R	WK	DW						120 SEC																																																
SPARE	G	R	WK	DW						68																																																
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VEH CL	A	R	DW	DW						9																																																
VEH CL	R	R	DW	DW						3																																																
PHASE B	R	G	DW	WK																																																						
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10/19	MK	ADD ACCESSIBLE PEDESTRIAN SIGNAL																																																								
DATE	BY	REVISIONS																																																								
Prep. <u>M.Kobets</u> Date <u>10/15/19</u> Appr. <u>N. V. Brashig</u> Date <u>10-16-19</u>																																																										

CABINET ADDRESS: 5EF2

LOAD SWITCHES ASSIGNMENT

L/S1	L/S2	L/S3	L/S4	L/S5	L/S6
R ₁	R ₂			DW ₁	DW ₂
A ₁	A ₂				
G ₁	G ₂			WK ₁	WK ₂

FLASHING OUTPUT CONFIGURATION

FP1 = A

FP2 = R

FP3 = R

FP4 = R

CONFLICT MONITOR PROGRAMMING

a) DIODES CUT

1-13, 2-14

b) YELLOW DISABLE JUMPERS:

13 & 14 & 15 & 16

c) DIP SWITCHES ASSIGNMENT:

	SW 1	CONFIG. SW (FIXED)	SW2																															
ON	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>									X	X	X	X	X	X	X	X	<table><tr><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr></table>					X	X	X	X	X	X	X					
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	SW 3	PLUS FEATURE SW	SW4																															
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OFF	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>											X	X	X	X	X	X	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td></tr></table>									X	X	X	X				X
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	CONFIG. SW (FIXED) USE FOR SIEMENS/EDI CMU																								
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OFF	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>													X	X			X	X		X	X	X	X	X
X	X			X	X		X	X	X	X	X														
	1 2 3 4 5 6 7 8 9 10 11 12																								

10/19	MK	ADD ACCESSIBLE PEDESTRIAN SIGNAL
DATE	BY	REVISIONS

NOTES: NON-ACTUATED

CABINET TYPE: ASTC-6

**CITY OF NEW YORK
BUREAU OF TRAFFIC OPERATIONS
34-02 Queens Blvd, Long Island City, NY 11101**

**LIBERTY AVENUE @
SCHENCK AVENUE**

Prep. M. Kobets Date 10/15/19
Appr. M. Kobets Date 10-16-19

BK

						1	2	3	4	5																																			
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VEH CL	R	←R	R	DW	DW																																								
PHASE B	R	←G	R	DW	DW																																								
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PHASE C	R	←R	G	DW	WK																																								
PED CL	R	←R	G	DW	FLDW																																								
VEH CL	R	←R	A	DW	DW																																								
VEH CL	R	←R	R	DW	DW																																								
CITY OF NEW YORK BUREAU OF TRAFFIC OPERATIONS 34-02 Queens Blvd. Long Island City, NY 11101						120 SEC																																							
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						LINDEN BOULEVARD @ SCHENCK AVENUE																																							
						NOTES: NON-ACTUATED PC = 3.5 FT/SEC INTERVAL PROGRAM PEDESTRIAN COUNTDOWN CABINET TYPE: ASTC-6 CABINET ADDRESS: 6133																																							
DOUBLE CYCLE RETIMING PROJECT 2019						Prep <u>D.LE</u> Date <u>06/17/19</u> Appr. <u>N. Sbruhif</u> Date <u>06-27-19</u>																																							
06/19	DL																																												
DATE	BY	REVISIONS																																											

CABINET ADDRESS 6133

LOAD SWITCHES ASSIGNMENT

L/S1	L/S2	L/S3	L/S4	L/S5	L/S6
R_1	$\leftarrow R_2$	R_3		DW_1	DW_2
A_1	$\leftarrow A_2$	A_3			
G_1	$\leftarrow G_2$	G_3		WK_1	WK_2

FLASHING OUTPUT CONFIGURATION

$$FP1 = A$$
$$FP2 = R$$
$$\text{FP3} = \text{R}$$
$$\underline{\text{FP4}} = \text{R}$$

CONFLICT MONITOR PROGRAMMING

a) DIODES CUT

1-13, 3-14

b) YELLOW DISABLE JUMPERS:

13&14&5 &16

c) DIP SWITCHES ASSIGNMENT:

SW 1 CONFIG. SW (FIXED) USE FOR PEEK CMU SW2

(USTC/PEEK) ON OFF

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		

SW 3 PLUS FEATURE SW SW4

ON	X	X	X											X	X		
OFF				X	X	X	X	X	X	X	X	X	X			X	X
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	

CONFIG. SW (FIXED) USE FOR SIEMENS/EDI CMU

(SIEMENS/ EDI)	ON	X			X			X					
	OFF		X	X		X	X		X	X	X	X	X
		1	2	3	4	5	6	7	8	9	10	11	12

NOTES: NON-ACTUATED

ASTC-6 Type Controller

CITY OF NEW YORK

BUREAU OF TRAFFIC OPERATIONS

34-02 Queens Blvd, Long Island City, NY 11101

LINDEN BOULEVARD @ SCHENCK AVE

Prep. D.LE

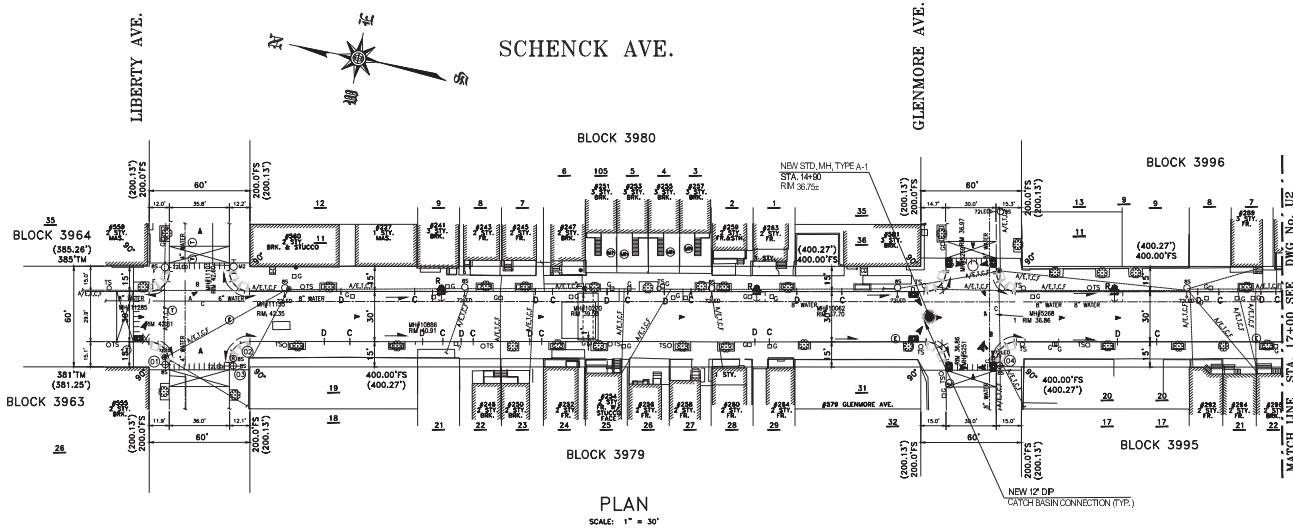
06-17-19

Appr. N. J. Archib

06-2719

BK

06/19	DL	DOUBLE CYCLE RETIMING PROJECT 2019
DATE	BY	REVISIONS



LEGEND

- EXISTING TRAFFIC POLE TO REMAIN.
- EXISTING STREET LIGHT LAMPOST TO REMAIN
- EXISTING M2 TRAFFIC POLE WITH STREET LIGHT TO REMAIN.
- REMOVE EXISTING LAMPOST AND FOUNDATION WITH ALL ATTACHMENT.
- FURNISH AND INSTALL NEW 25' FS 85 TYPE SINGLE ARM LAMPOST WITH TRANSFORMER BASE, 72W LED COBRA HEAD LUMINAIRE AND P.E.C. ON A NEW STANDARD TYPE ANCHOR BOLT FOUNDATION AS PER DWG E-3788.
- FURNISH AND INSTALL NEW 25' FS 8T TYPE TWIN ARM LAMPOST WITH TRANSFORMER BASE, 72W LED COBRA HEAD LUMINAIRE AND P.E.C. ON A NEW STANDARD TYPE ANCHOR BOLT FOUNDATION AS PER DWG E-3788.
- FURNISH AND INSTALL 8' ARM 90' FROM EXISTING ARM WITH 72W LED COBRA HEAD LUMINAIRE
- REMOVE ALL STREET LIGHTING EQUIPMENT FROM EXISTING M2 TRAFFIC POLE.
- FURNISH AND INSTALL TYPE 8S BRACKET, WITH MAX 72 WATT LED COBRA HEAD LUMINAIRE AND P.E.C. ON EXISTING UTILITY WOOD POLE.
- FURNISH AND INSTALL 8' SHAFT EXTENSION, 8' SINGLE ARM, 72W LED LUMINAIRE AND P.E.C. ON EXISTING M2 TRAFFIC POLE.
- FURNISH AND INSTALL 8' SHAFT EXTENSION, 8' TWIN ARM, 72W LED LUMINAIRE AND P.E.C. ON PROPOSED M2 TRAFFIC POLE.
- FURNISH AND INSTALL 8' BRACKET 90' FROM EXISTING BRACKET WITH 72W LED COBRA HEAD LUMINAIRE
- REMOVE EXISTING BRACKET, LUMINAIRE AND ALL ATTACHMENT. FURNISH AND INSTALL TWIN 8' BRACKET WITH 72W LED COBRA HEAD LUMINAIRE AND P.E.C.
- SINGLE 8' F.S. ARM/BRACKET.
- TWIN 8' F.S. ARMS/BRACKETS.
- 72W LED MAX 100W LED.
- ① INDICATES KEY NUMBER.

NOTES:

- 1- CON EDISON TO PROVIDE SERVICE CONFORMANCE AT KEY NO. 08, 16, 20, 22, 25 & 28.
- 2- CON EDISON TO TERMINATE SERVICE AT KEY NO. 15 & 21.
- 3- ALL SHOP DRAWINGS SHALL BE SUBMITTED TO DEPT OF TRANSPORTATION DIVISION OF STREET LIGHTING, FOR APPROVAL BEFORE PURCHASE.
- 4- ALL EQUIPMENT IN THIS PROJECT SHALL BE FURNISH AND INSTALLED UNDER NEW YORK CITY DEPARTMENT OF DESIGN AND CONTRACT NO. HWK797W.
- 5- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF TRANSPORTATION, DIVISION OF STREET LIGHTING STANDARD SPECIFICATION.
- 6- THE DIVISION OF STREET LIGHTING INSPECTION MUST BE NOTIFIED AT 212-839-3286 72 HOURS PRIOR TO THE START OF WORK.
- 7- ALL REMOVED EQUIPMENTS SHALL BE RETURNED TO DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING STORE YARD LOCATED AT 45-03 37th AVE, LONG ISLAND CITY, NY 11101.
- 8- ANY DAMAGE TO THE EXISTING FACILITIES AS A RESULT OF THE CONTRACTOR'S WORK AND/OR WORK FORCE SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- 9- INSTALL ALL NEW STREET LIGHT 2" FROM CURB.

ZIP CODE: 11207

LAST KEY NO. 04

NO.	DATE	BY	DESCRIPTIONS	I.A.S.															
REVISIONS CITY OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING CONTRACT NO: HWK797W JOB NO. 19SLMHJH RECONSTRUCTION OF SCHENCK AVENUE BROOKLYN																			
PROJECT ENG. S. SIDHOM	SECT. ENG. P. DEBANIA	DIRECTOR G. PATEL	CONTROL NO. -----																
DATE 10/23/2019	SCALE 1" = 30'	SHEET 1 OF 6	DRAWING NO. B63																
<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTIONS</th> <th>BY</th> <th>APPRO'D</th> </tr> <tr> <td colspan="5" style="text-align: center;">REVISIONS</td> </tr> <tr> <td colspan="5"> RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN </td> </tr> </table>					NO.	DATE	DESCRIPTIONS	BY	APPRO'D	REVISIONS					RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
NO.	DATE	DESCRIPTIONS	BY	APPRO'D															
REVISIONS																			
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN																			
PROJECT ID: HWK797W FEDERAL AID NO. X772.76		DATE 2-25-19	SHEET 38 OF 70	SLY 3/1															



Department of Design and Construction

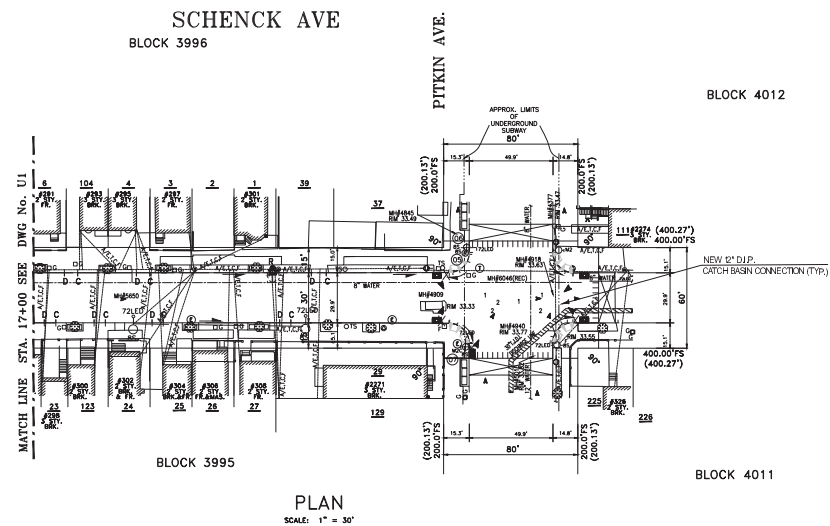
DESIGNED: CORENZO WILKERSON
DRAWN: VERBEC HOUJIKER
CHECKED: C. WILKERSON, P.E.
CADD FILE

SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

STREET LIGHTING PLAN-1
SCHENCK AVENUE
FROM STA. 10+00 TO 17+00



ZIP CODE: 11207
LAST KEY NO. 07

NO.	DATE	BY	DESCRIPTIONS	I.A.S.																				
REVISIONS																								
CITY OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING																								
CONTRACT NO: HWK797W			JOB NO. 19SLMH																					
RECONSTRUCTION OF SCHENCK AVENUE BROOKLYN																								
PROJECT ENG. S. SIDHOM	SECT. ENG. P. DEBANA	DIRECTOR G. PATEL	CONTROL NO. -----																					
DATE 10/23/2019	SCALE 1" = 30'	SHEET 2 OF 6	DRAWING NO. B63																					
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTIONS</th> <th>BY</th> <th>APPRO'D</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					NO.	DATE	DESCRIPTIONS	BY	APPRO'D															
NO.	DATE	DESCRIPTIONS	BY	APPRO'D																				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN																								
PROJECT ID: HWK797W FEDERAL AID NO: X772-7B		DATE 2-25-19	SHEET 39 OF 70	512 518																				



DESIGNED: CORENZO WILKERSON
DRAWN: VERICKE HOULKER
CHECKED: C. WILKERSON, P.E.

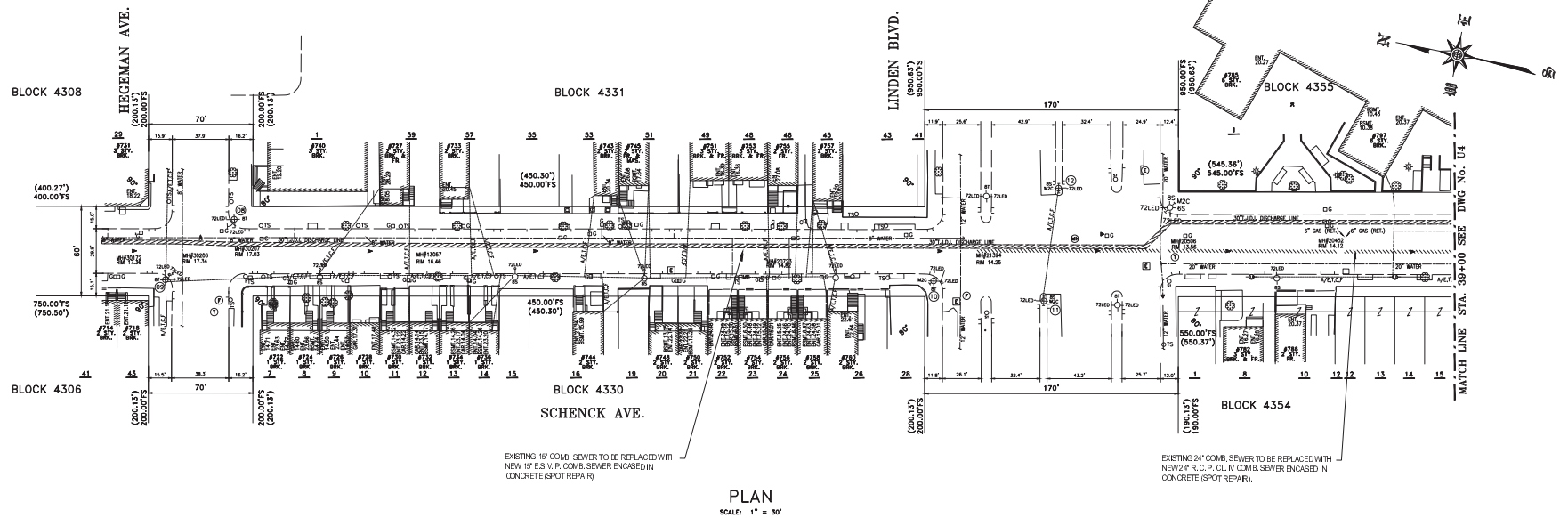
SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE

LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

STREET LIGHTING PLAN - 2
SCHENCK AVENUE
FROM STA. 17+00 TO 20+50



ZIP CODE: 11207
LAST KEY NO. 12

NO.	DATE	BY	DESCRIPTIONS	I.A.S.																									
REVISIONS CITY OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING CONTRACT NO: HWK797W JOB NO. 19SLMH RECONSTRUCTION OF SCHENCK AVENUE BROOKLYN																													
PROJECT ENG.	SECT. ENG.	DIRECTOR	CONTROL NO.																										
S. SIDOM	P. DEDANIA	G. PATEL	-----																										
DATE	SCALE	SHEET	OF	DRAWING NO.																									
10/23/2019	1" = 30'	3	6	B63																									
<table border="1"> <thead> <tr> <th>NO.</th><th>DATE</th><th>DESCRIPTIONS</th><th>BY</th><th>APPRO'D</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					NO.	DATE	DESCRIPTIONS	BY	APPRO'D																				
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RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN PROJECT ID: HWK797W FEDERAL AID NO: X772(78)																													
DATE:		SHEET		SL																									
2-25-19		40 OF 70		51																									



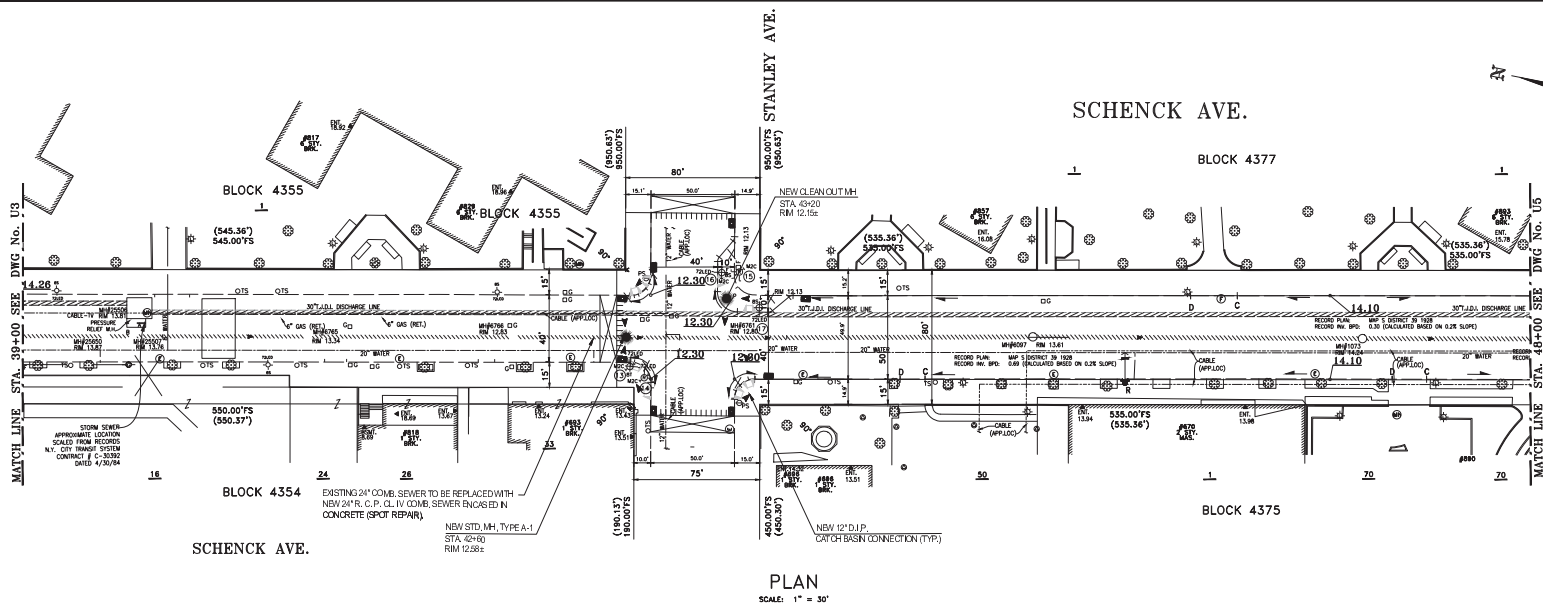
DESIGNED: CORENZO WILKERSON
DRAWN: VERIQUE HOUJIKER
CHECKED: C. WILKERSON, P.E.

SCALE
AS SHOWN
CADD FILE

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

STREET LIGHTING PLAN - 3
SCHENCK AVENUE
FROM STA. 30+00 TO 39+00



PLAN
SCALE: 1" = 30'

ZIP CODE: 11207
LAST KEY NO. 17

NO.	DATE	BY	DESCRIPTIONS	1.A.S								
<p align="center">REVISIONS</p> <p align="center">CITY OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING</p> <p align="center">CONTRACT NO: HWK797W JOB NO: 19SLMH</p> <p align="center">RECONSTRUCTION OF SCHENCK AVENUE BROOKLYN</p> <table border="1"> <tr> <td>PROJECT ENG. S.SIDHOM</td> <td>SECT. ENG. P. DEBANA</td> <td>DIRECTOR G. PATEL</td> <td>CONTROL NO. -----</td> </tr> <tr> <td>DATE 10/23/2019</td> <td>SCALE 1" = 30'</td> <td>SHEET 4</td> <td>DRAWING NO. B63</td> </tr> </table>					PROJECT ENG. S.SIDHOM	SECT. ENG. P. DEBANA	DIRECTOR G. PATEL	CONTROL NO. -----	DATE 10/23/2019	SCALE 1" = 30'	SHEET 4	DRAWING NO. B63
PROJECT ENG. S.SIDHOM	SECT. ENG. P. DEBANA	DIRECTOR G. PATEL	CONTROL NO. -----									
DATE 10/23/2019	SCALE 1" = 30'	SHEET 4	DRAWING NO. B63									
NO.	DATE	DESCRIPTIONS	BY	APPR'D								
<p align="center">REVISIONS</p> <p align="center">RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN</p> <p align="center">PROJECT 19 HWK797W DATE: 2.25.19 SHEET: 41 OF 70 SLA</p> <p align="center">FEDERIL AD NO. X772.70</p>												



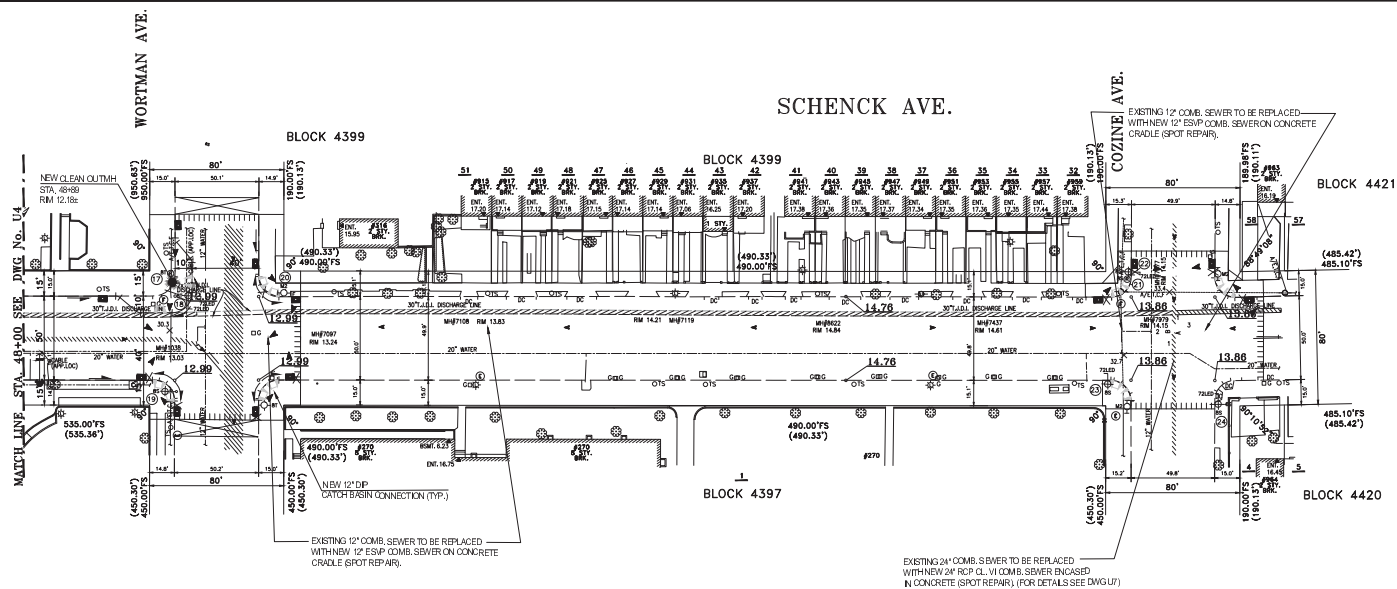
DESIGNED: CORENTO WILKERSON
DRAWN: VERICKE HOUWER
CHECKED: C. WILKERSON, P.E.
CADD FILE: _____

SCALE
AS SHOWN

CORENTO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

STREET LIGHTING PLAN - 4
SCHENCK AVENUE
FROM STA. 39+00 TO 48+00



PLAN
SCALE: 1" = 30'

ZIP CODE: 11207
LAST KEY NO. 24

NO.	DATE.	BY	DESCRIPTIONS	IAS
REVISIONS				
CITY OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING				
CONTRACT NO: HWK797W			JOB NO. 195LMH	
RECONSTRUCTION OF SCHENCK AVENUE BROOKLYN				
PROJECT ENG. S. SIDHOM	SECT. ENG. P. DEDANIA	DIRECTOR G. PATEL	CONTROL NO. -----	
DATE 10/23/2019	SCALE 1" = 30'	SHEET 5 OF 6	DRAWING NO. B63	
NO.	DATE	DESCRIPTIONS REVISIONS		BY APPRO'D
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK797W FEDERAL AID NO: 377276		DATE 2.25.19	SHEET 42 OF 70	515 / 51



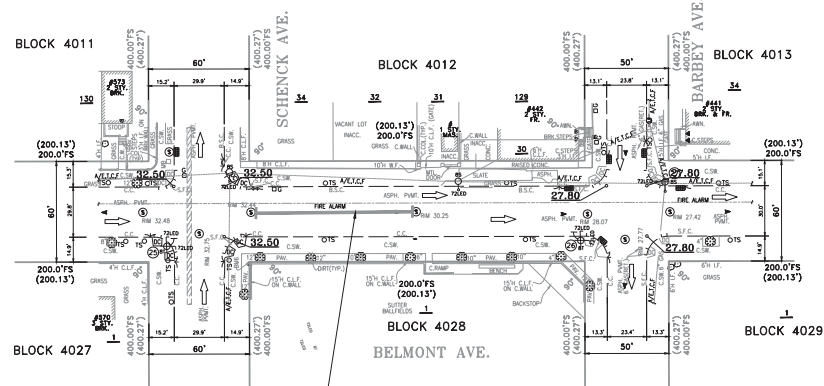
DESIGNED: CORENZO WILKERSON
DRAWN: VERICKE HOUJIKER
CHECKED: C. WILKERSON, P.E.
CADD FILE: _____

SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERNHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

STREET LIGHTING PLAN - 5
SCHENCK AVENUE
FROM STA. 48+00 TO 55+50



PLAN

EXISTING 12" COMB. SEWER TO BE REPLACED
WITH NEW 12" ESP. COMB. SEWER ON CONCRETE
CRADLE.

ZIP CODE: 11207

LAST KEY NO. 27

NO.	DATE	BY	DESCRIPTIONS	1.A.5								
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PROJECT ENG. S. SIDHOM	SECT. ENG. P. DEDANIA	DIRECTOR G. PATEL	CONTROL NO. B63									
DATE 10/23/2019	SCALE 1" = 30'	SHEET 6 OF 6	DRAWING NO. B63									
NO.	DATE	DESCRIPTIONS	BY	APPRO'D								
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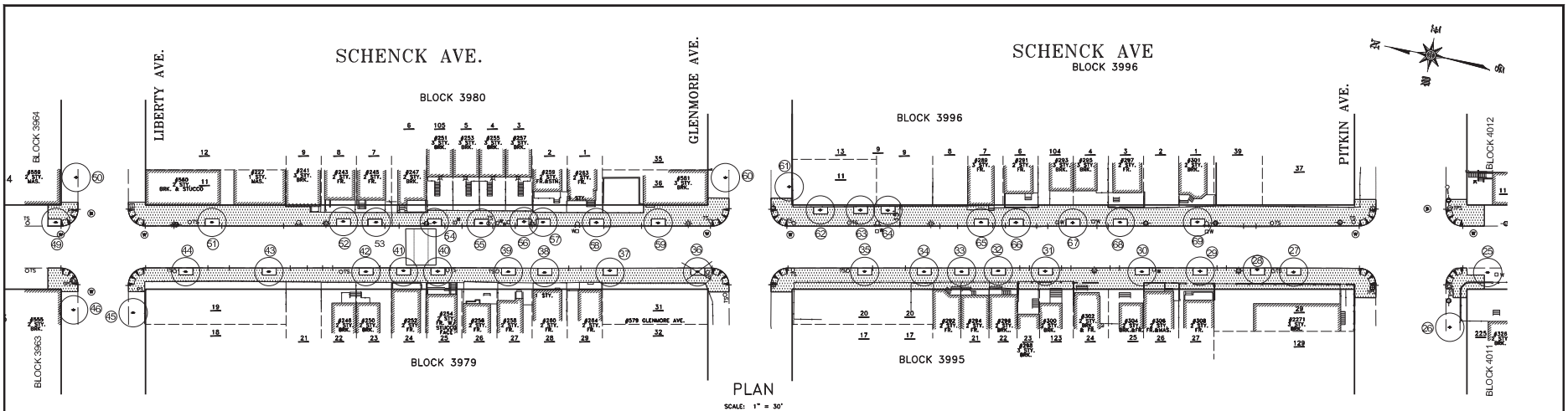
DESIGNED: CORENZO WILKERSON
DRAWN: VERICKE HOUJIKER
CHECKED: C. WILKERSON, P.E.
CADD FILE

SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

STREET LIGHTING PLAN - 6
BELMONT AVENUE
FROM STA. 10+00 TO 13+70



TREE PROTECTION AND MITIGATION NOTES:

1. CONTRACTOR SHALL OBTAIN PERMIT FROM NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION (NYCDPR) BOROUGH FORESTRY TO ALLOW WORK NEAR EXISTING TREES PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM NYCDPR BOROUGH FORESTRY BEFORE ANY EXISTING TREE PRUNING, TREE REMOVALS OR NEW TREE PLANTING WORK IS PERFORMED.
3. EXISTING TREES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT WITH PROTECTIVE WOODEN TREE BARRIERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TREES, BUT NOT LIMITED TO WOOD CHIPS AND GROUND SURFACE PROTECTION MATS, AT NO EXTRA COST.
4. CONTRACTOR IS NOT PERMITTED TO STORE ANY CONSTRUCTION MATERIAL WITHIN THE BOUNDARIES OF TREE PROTECTION.
5. NO HEAVY EQUIPMENT, MACHINERY OR STOCK PILING OF MATERIAL IS PERMITTED WITHIN THE DRILLPILE CRITICAL ROOT ZONE OF ANY EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT. IN AREAS WHERE HEAVY EQUIPMENT OR VEHICLES MUST OPERATE WITHIN THE DRILLPILE CRITICAL ROOT ZONE OF AN EXISTING TREE, A 12" LAYER OF WOOD CHIPS AND GROUND SURFACE PROTECTION MATS MUST BE SPREAD TO PREVENT SOIL COMPACTION AND ROOT LOSS.
7. CONTRACTOR SHALL TAKE SPECIAL CARE FOR EXCAVATION AND RESTORATION OF CURBS AND SIDEWALKS TO BE IMPLEMENTED WITHIN EXISTING TREE DRILLPILE CRITICAL ROOT ZONES WITH ATTENTION TO HAND REMOVALS (ITEM NO. 8.02 A AND 8.02 B).
8. CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT ROOT SYSTEMS OF EXISTING TREES. ALL DEMOLITION AND CONSTRUCTION WITHIN THE DRILLPILE CRITICAL ROOT ZONE OF EXISTING TREES TO BE PERFORMED BY HAND/PNEUMATIC EXCAVATION (ITEM NO. 6.02 PA). THIS INCLUDES ALL MATERIALS AND FIXTURES, SIDEWALKS AND CURBS. PAVEMENT REMOVAL SHALL BE BY LIFTING, NOT DRAGGING.
9. NYCDPR FORESTRY MANDATES THAT ALL ROOTS BE KEPT WET IF EXPOSED. TREE ROOTS SHALL BE IMMEDIATELY WET DOWN AND COVERED OR WRAPPED WITH SATURATED BURLAP, UNTIL BACK FILLED AND/OR COVERED WITH SOIL.
10. TREE ROOTS OVER 1" DIAMETER SHALL NOT BE PRUNED WITHOUT THE WRITTEN APPROVAL OF THE NYCDPR BOROUGH FORESTER.
11. ALL EXPANDED TREE PITS TO BE FINAL BACKFILLED WITH TOPSOIL AS NECESSARY (ITEM NO. 4.15).
12. ALL EXISTING TREE PITS TO BE FINAL COVERED WITH 3" THICK SHREDDED HARDWOOD MULCH (ITEM NO. 8.32).
13. REMOVE BLOCK BY HAND WHERE EXISTING IN TREE PIT OPENING (ITEM NO. 8.02A).

TREE MITIGATION TABLE

TREE #	STREET ADDRESS	BLOCK NUMBER	BOTANICAL NAME	COMMON NAME	D.B.H. (IN.)	CONDITION (DPR)	TREE MITIGATION DETAILS
25	325 Schenck Ave	4011	Zelkova serrata	Japanese zelkova	6.5	Good	OUT OF SCOPE
26	325 Schenck Ave	4011	Syringa reticulata	Japanese tree lilac	2	Fair	OUT OF SCOPE
27	2271 Pitkin Ave	3995	Gleditsia triacanthos	Honey locust	9	Good	6
28	2271 Pitkin Ave	3995	Gleditsia triacanthos	Honey locust	9.5	Good	6, REMOVE STONE
29	308 Schenck Ave	3995	Koeleruteria paniculata	Gokhan rain tree	7	Good	6, REMOVE STONE
30	304 Schenck Ave	3995	Prunus virginiana	Purple leaf plum	6	Good	6, REMOVE STONE
31	300 Schenck Ave	3995	Zelkova serrata	Japanese zelkova	7	Good	6, REMOVE STONE
32	296 Schenck Ave	3995	Prunus virginiana	Purple leaf plum	6	Good	6, REMOVE STONE
33	294 Schenck Ave	3995	Acer Platanoides	Norway maple	11.5	Poor	2A, 6
34	292 Schenck Ave	3995	Metasequoia glyptostroboides	Dawn Redwood	10	Good	6, REMOVE STONE
35	292 Schenck Ave	3995	Metasequoia glyptostroboides	Dawn Redwood	10.5	Good	2A, 6
36	579 Glenmore Ave	3979	Quercus palustris	Pin oak	7	Good	REMOVE TREE
37	579 Glenmore Ave	3979	Quercus palustris	Pin oak	10.5	Good	2A, 6
38	260 Schenck Ave	3979	Quercus palustris	Pin oak	8.75	Good	6, REMOVE STONE
39	258 Schenck Ave	3979	Crataegus viridis	Hawthorn	4.5	Fair	REMOVE STONE
40	254 Schenck Ave	3979	Zelkova serrata	Japanese zelkova	6.75	Good	REMOVE BLOCK
41	252 Schenck Ave	3979	Zelkova serrata	Japanese zelkova	7.75	Good	REMOVE BLOCK
42	250 Schenck Ave	3979	Zelkova serrata	Japanese zelkova	7	Good	REMOVE BLOCK
43	558 Schenck Ave	3979	Ginkgo biloba	Ginkgo	6	Good	REMOVE BLOCK
44	558 Schenck Ave	3979	Ginkgo biloba	Ginkgo	7.75	Good	REMOVE BLOCK
45	558 Liberty Ave	3979	Dead		10.5	Dead	OUT OF SCOPE
46	555 Liberty Ave	3963	Syringa reticulata	Japanese tree lilac	3.5	Good	OUT OF SCOPE
47	555 Liberty Ave	3963	NOT IN PROJECT LIMITS				OUT OF SCOPE
48	559 Liberty Ave	3964	NOT IN PROJECT LIMITS				OUT OF SCOPE
49	559 Liberty Ave	3964	Platanus X acerifolia	London planetree	28	Poor	REMOVE BLOCK
50	559 Liberty Ave	3964	Platanus X acerifolia	London planetree	28.5	Good	OUT OF SCOPE

TREE MITIGATION TABLE

TREE #	STREET ADDRESS	BLOCK NUMBER	BOTANICAL NAME	COMMON NAME	D.B.H. (IN.)	CONDITION (DPR)	TREE MITIGATION DETAILS
51	560 Liberty Ave	3980	Eucommia ulmoides	Hardy rubber tree	3.5	Fair	REMOVE BLOCK
52	243 Schenck Ave	3990	Crataegus viridis	Hawthorn	5	Poor	REMOVE BLOCK
53	245 Schenck Ave	3990	Crataegus viridis	Hawthorn	5.5	Poor	
54	251 Schenck Ave	3990	Prunus serotata	Kwanzean cherry	4	Fair	
55	253 Schenck Ave	3990	Platanus X acerifolia	London planetree	33	Poor	6
56	257 Schenck Ave	3990	Prunus serotata	Kwanzean cherry	5	Fair	
57	259 Schenck Ave	3990	Crataegus viridis	Hawthorn	2.25	Poor	REMOVE BLOCK
58	263 Schenck Ave	3990	Prunus serotata	Kwanzean cherry	6.5	Good	REMOVE BLOCK
59	581 Glenmore Ave	3980	Prunus serotata	Kwanzean cherry	12	Good	6, REMOVE BLOCK
60	581 Glenmore Ave	3980	Gleditsia triacanthos	Honey locust	8.5	Good	OUT OF SCOPE
61	N/A Schenck Ave	3996	Liriodendron tulipifera	Tulip Poplar	10	Good	OUT OF SCOPE
62	N/A Schenck Ave	3996	Liriodendron tulipifera	Tulip Poplar	5.5	Good	
63	N/A Schenck Ave	3996	Liriodendron tulipifera	Tulip Poplar	7.5	Good	
64	N/A Schenck Ave	3996	Liriodendron tulipifera	Tulip Poplar	7	Good	
65	289 Schenck Ave	3996	Crataegus viridis	Hawthorn	6	Poor	
66	291 Schenck Ave	3996	Malus spp.	Crabapple	5.5	Good	6, REMOVE BLOCK
67	293 Schenck Ave	3996	Prunus serotata	Kwanzean cherry	8	Good	6, REMOVE BLOCK
68	297 Schenck Ave	3996	Prunus vergha	Purple leaf plum	9	Good	6, REMOVE BLOCK
69	301 Schenck Ave	3996	Prunus serotata	Kwanzean cherry	10.5	Good	6, REMOVE BLOCK

LEGEND

- NEW CONCRETE SIDEWALK
- EXISTING TREE IN NEW EXPANDED 5'x10' TREE PIT UNLESS NOTED
- REMOVE EXISTING TREE (FOR DESIGN) ITEM 4.15 AA
- CONCRETE CURB RAMP WITH DETECTABLE WARNING SURFACE
- TREE NUMBER

NO.	DATE	DESCRIPTIONS	BY	APPROV'D



DESIGNED BY CONORR, B.A.
DRAWN BY YENCKE, HOLLKER
CHECKED BY C. WILKERSON, P.E.

SCALE AS SHOWN
CADD FILE

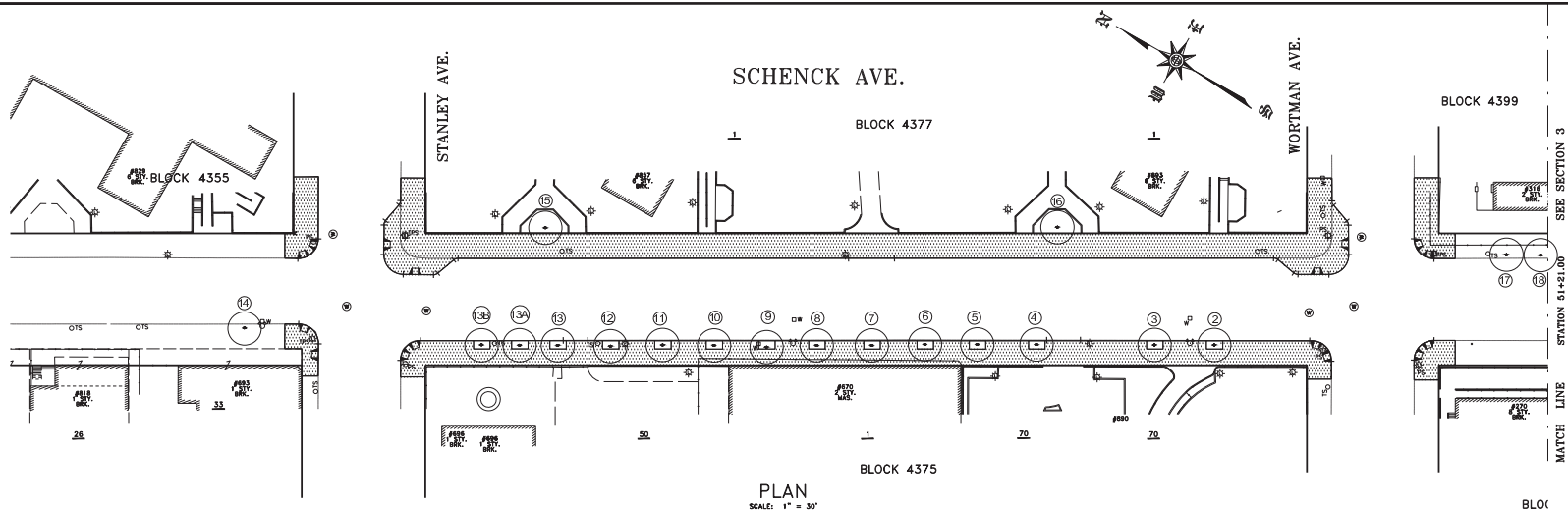
CONORR WILKERSON, P.E.
ENGINEER-IN-CHARGE
LIMSEY BERGMANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TREE MITIGATION PLAN 1
SCHENCK AVENUE
FROM STA. 10+00 TO 20+40

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HWK07W
FEDERAL AID NO. X772.76
DATE: 3.5.21
SHEET 44 OF 70
11/17/2020



TREE PROTECTION AND MITIGATION NOTES:

- CONTRACTOR SHALL OBTAIN PERMIT FROM NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION (NYCDPR) BOROUGH FORESTRY TO ALLOW WORK NEAR EXISTING TREES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM NYCDPR BOROUGH FORESTRY BEFORE ANY EXISTING TREE PRUNING, TREE REMOVALS OR NEW TREE PLANTING WORK IS PERFORMED.
- EXISTING TREES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT WITH PROTECTIVE WOODEN TREE BARRIERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TREES, BUT NOT LIMITED TO WOOD CHIPS AND GROUND SURFACE PROTECTION MATS, AT NO EXTRA COST.
- CONTRACTOR IS NOT PERMITTED TO STORE ANY CONSTRUCTION MATERIAL WITHIN THE BOUNDARIES OF TREE PROTECTION.
- NO HEAVY EQUIPMENT, MACHINERY OR STOCK PILING OF MATERIAL IS PERMITTED WITHIN THE DRIPLINE CRITICAL ROOT ZONE OF ANY EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT. IN AREAS WHERE HEAVY EQUIPMENT OR VEHICLES MUST OPERATE WITHIN THE DRIPLINE CRITICAL ROOT ZONE OF AN EXISTING TREE, A 12" LAYER OF WOOD CHIPS AND GROUND SURFACE PROTECTION MATS MUST BE SPREAD TO PREVENT SOIL COMPACTION AND ROOT LOSS.
- CONTRACTOR SHALL TAKE SPECIAL CARE FOR EXCAVATION AND RESTORATION OF CURBS AND SIDEWALKS TO BE IMPLEMENTED WITHIN EXISTING TREE DRIPLINE CRITICAL ROOT ZONES WITH ATTENTION TO HAND REMOVALS (ITEM NO. 8.02 A AND 8.02 B).
- CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT ROOT SYSTEMS OF EXISTING TREES. ALL DEMOLITION AND CONSTRUCTION WITHIN THE DRIPLINE CRITICAL ROOT ZONE OF EXISTING TREES TO BE PERFORMED BY HAND/PNEUMATIC EXCAVATION (ITEM NO. 6.02 PA). THIS INCLUDES ALL MATERIALS AND FIXTURES, SIDEWALKS AND CURBS. PAVEMENT REMOVAL SHALL BE BY LIFTING, NOT DRAGGING.
- NYCDPR FORESTRY MANDATES THAT ALL ROOTS BE KEPT WET IF EXPOSED. TREE ROOTS SHALL BE IMMEDIATELY WET DOWN AND COVERED OR WRAPPED WITH SATURATED BURLAP, UNTIL BACK FILLED AND/OR COVERED WITH SOIL.
- TREE ROOTS OVER 1" DIAMETER SHALL NOT BE PRUNED WITHOUT THE WRITTEN APPROVAL OF THE NYCDPR BOROUGH FORESTER.
- ALL EXPANDED TREE PITS TO BE FINAL BACKFILLED WITH TOPSOIL AS NECESSARY (ITEM NO. 4.15).
- ALL EXISTING TREE PITS TO BE FINAL COVERED WITH 3" THICK SHREDDED HARDWOOD MULCH (ITEM NO. 8.32).
- REMOVE BLOCK BY HAND WHERE EXISTING IN TREE PIT OPENING (ITEM NO. 8.02A).

TREE MITIGATION TABLE

TREE #	STREET ADDRESS	BLOCK NUMBER	BOTANICAL NAME	COMMON NAME	D.B.H. (IN.)	CONDITION (DPR)	TREE MITIGATION DETAILS
2	890 Schenck Ave	4375	Platanus X acerifolia	London planetree	26.5	Good	6
3	890 Schenck Ave	4375	Platanus X acerifolia	London planetree	27.5	Good	6
4	890 Schenck Ave	4375	Platanus X acerifolia	London planetree	30.5	Good	2, 6
5	890 Schenck Ave	4375	Platanus X acerifolia	London planetree	24	Good	6
6	670 Stanley Ave	4375	Platanus X acerifolia	London planetree	20	Fair	6
7	670 Stanley Ave	4375	Platanus X acerifolia	London planetree	19	Fair	6
8	670 Stanley Ave	4375	Glodisia triacanthos	Money bush	3	Good	
9	670 Stanley Ave	4375	Platanus X acerifolia	London planetree	20	Fair	6
10	696 Stanley Ave	4375	Platanus X acerifolia	London planetree	22	Good	2A, 6
11	696 Stanley Ave	4375	Platanus X acerifolia	London planetree	17.5	Fair	2A, 6
12	696 Stanley Ave	4375	Platanus X acerifolia	London planetree	16.5	Poor	2A, 6
13	696 Stanley Ave	4375	Platanus X acerifolia	London planetree	18	Good	2A, 6
13a	696 Stanley Ave	4375	Eucommia ulmoides	Hardy rubber tree	3	Good	
13b	696 Stanley Ave	4375	Eucommia ulmoides	Hardy rubber tree	3	Dead	
14	693 Stanley Ave	4354	Quercus acutissima	Sawtooth oak	6.5	Good	OUT OF SCOPE
15	857 Schenck Ave	4377	NOT IN PROJECT LIMITS				OUT OF SCOPE
16	893 Schenck Ave	4377	NOT IN PROJECT LIMITS				OUT OF SCOPE
17	316 Wortman Ave	4399	Carpinus betulus	European hophbeam	3	Fair	SWALK+CURB REMAIN
18	316 Wortman Ave	4399	Carpinus betulus	European hophbeam	3	Good	SWALK+CURB REMAIN

LEGEND

NEW CONCRETE SIDEWALK

CONCRETE CURB RAMP WITH DETECTABLE WARNING SURFACE

EXISTING TREE IN NEW EXPANDED 5' x 10' TREE PIT UNLESS NOTED

TREE NUMBER

REMOVE EXISTING TREE (FOR DESIGN) ITEM 4.16 AA

Department of Design and Construction

DESIGNED BY: CORONOR, R.L.A.
DRAWN: VERBICK, HOUJIKER
CHECKED: C. WILKERSON, P.E.
CADD FILE:

SCALE: AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERKHAM, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TREE MITIGATION PLAN 2
SCHENCK AVENUE
FROM STA. 42+54 TO 51+21

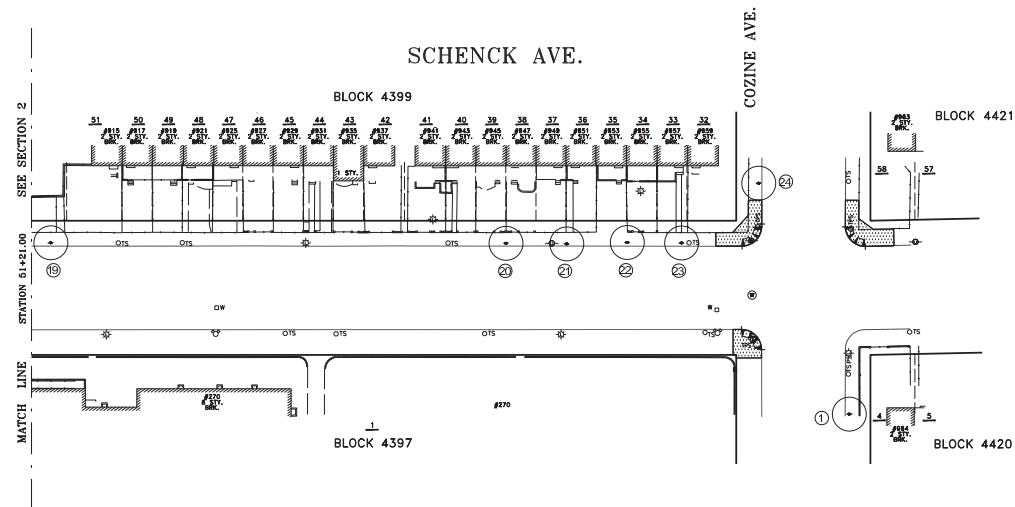
NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HW097W
FEDERAL AID NO: X772.78

DATE: 3.5.21

SHEET 46 OF 70



TREE PROTECTION AND MITIGATION NOTES:

1. CONTRACTOR SHALL OBTAIN PERMIT FROM NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION (NYCDPR) BOROUGH FORESTRY TO ALLOW WORK NEAR EXISTING TREES PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM NYCDPR BOROUGH FORESTRY BEFORE ANY EXISTING TREE PRUNING, TREE REMOVALS OR NEW TREE PLANTING WORK IS PERFORMED.
3. EXISTING TREES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT WITH PROTECTIVE WOODEN TREE BARRIERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TREES, BUT NOT LIMITED TO WOOD CHIPS AND GROUND SURFACE PROTECTION MATS, AT NO EXTRA COST.
4. CONTRACTOR IS NOT PERMITTED TO STORE ANY CONSTRUCTION MATERIAL WITHIN THE BOUNDARIES OF TREE PROTECTION.
5. NO HEAVY EQUIPMENT, MACHINERY OR STOCK PILING OF MATERIAL IS PERMITTED WITHIN THE DRIPLINE CRITICAL ROOT ZONE OF ANY EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT. IN AREAS WHERE HEAVY EQUIPMENT OR VEHICLES MUST OPERATE WITHIN THE DRIPLINE CRITICAL ROOT ZONE OF AN EXISTING TREE, A 12" LAYER OF WOOD CHIPS AND GROUND SURFACE PROTECTION MATS MUST BE SPREAD TO PREVENT SOIL COMPACTION AND ROOT LOSS.
7. CONTRACTOR SHALL TAKE SPECIAL CARE FOR EXCAVATION AND RESTORATION OF CURBS AND SIDEWALKS TO BE IMPLEMENTED WITHIN EXISTING TREE DRIPLINE CRITICAL ROOT ZONES WITH ATTENTION TO HAND REMOVALS (ITEM NO. 8.02 A AND 8.02 B).
8. CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT ROOT SYSTEMS OF EXISTING TREES. ALL DEMOLITION AND CONSTRUCTION WITHIN THE DRIPLINE CRITICAL ROOT ZONE OF EXISTING TREES TO BE PERFORMED BY HAND/PNEUMATIC EXCAVATION (ITEM NO. 6.02 PA). THIS INCLUDES ALL MATERIALS AND FIXTURES, SIDEWALKS AND CURBS. PAVEMENT REMOVAL SHALL BE BY LIFTING, NOT DRAGGING.
9. NYCDPR FORESTRY MANDATES THAT ALL ROOTS BE KEPT WET IF EXPOSED. TREE ROOTS SHALL BE IMMEDIATELY WET DOWN AND COVERED OR WRAPPED WITH SATURATED BURLAP, UNTIL BACK FILLED AND/OR COVERED WITH SOIL.
10. TREE ROOTS OVER 1" DIAMETER SHALL NOT BE PRUNED WITHOUT THE WRITTEN APPROVAL OF THE NYCDPR BOROUGH FORESTER.
11. ALL EXPANDED TREE PITS TO BE FINAL BACKFILLED WITH TOPSOIL AS NECESSARY (ITEM NO. 4.15).
12. ALL EXISTING TREE PITS TO BE FINAL COVERED WITH 3" THICK SHREDDED HARDWOOD MULCH (ITEM NO. 8.32).
13. REMOVE BLOCK BY HAND WHERE EXISTING IN TREE PIT OPENING (ITEM NO. 8.02A).

PLAN
SCALE: 1" = 30'

TREE MITIGATION TABLE

TREE #	STREET ADDRESS	BLOCK NUMBER	BOTANICAL NAME	COMMON NAME	D.B.H. (IN.)	CONDITION (DPR)	TREE MITIGATION DETAILS
1	964 Schenck Ave	4420	Acer Saccharum	Silver Maple	29	Fair	SWALK+CURB REMAIN
19	316 Wortman Ave	4399	Carpinus betulus	European hornbeam	3	Good	SWALK+CURB REMAIN
20	945 Schenck Ave	4399	Platanus X acerifolia	London planetree	24	Good	SWALK+CURB REMAIN
21	949 Schenck Ave	4399	Acer Platanoides	Norway Maple	21	Poor	SWALK+CURB REMAIN
22	955 Schenck Ave	4399	Platanus X acerifolia	London planetree	24.5	Good	SWALK+CURB REMAIN
23	957 Schenck Ave	4399	Platanus X acerifolia	London planetree	22.5	Good	SWALK+CURB REMAIN
24	959 Schenck Ave	4399	Masochia amurensis	Masochia	4	Good	SWALK+CURB REMAIN

LEGEND

- NEW CONCRETE SIDEWALK
- CONCRETE CURB RAMP WITH DETECTABLE WARNING SURFACE
- EXISTING TREE IN NEW EXPANDED 5'x10' TREE PIT UNLESS NOTED
- TREE NUMBER
- REMOVE EXISTING TREE (FOR DESIGN) ITEM 4.16 AA

NO.	DATE	DESCRIPTIONS	BY	APPROD.
REVISIONS				

PROJECT ID: HWK707N FEDERAL AID NO: X77270	DATE: 3-5-21	SHEET 46 OF 70	THW TMD
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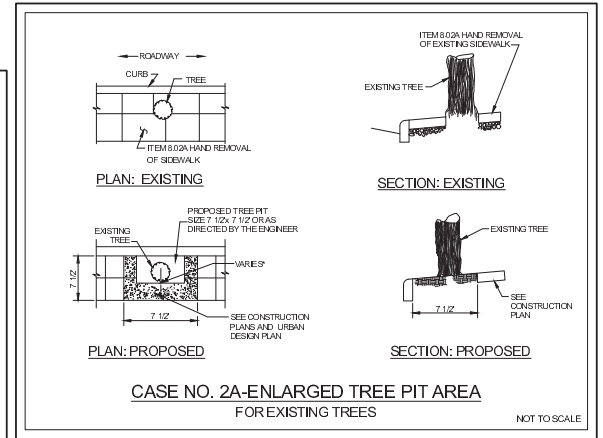
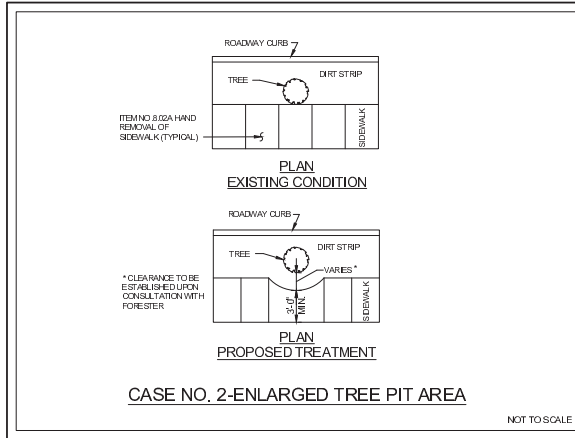
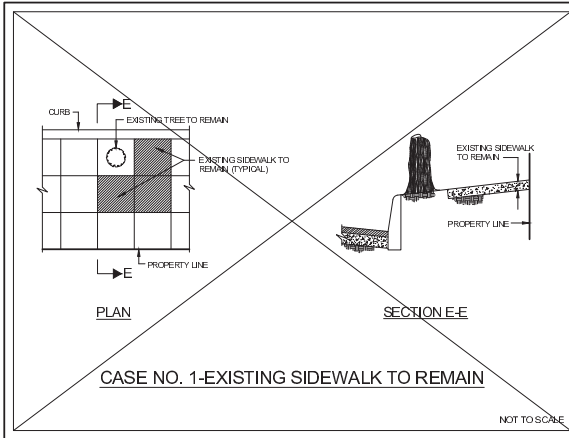


DESIGNED: D. CONDRON, R.L.A.	SCALE: AS SHOWN	CORENDO WILKINSON, P.E. ENGINEER-IN-CHARGE
DRAWN: VERONICA HOLLER		LINDSEY BERGMANN, P.E. DIRECTOR
CHECKED: C. WILKINSON, P.E.	CADD FILE	

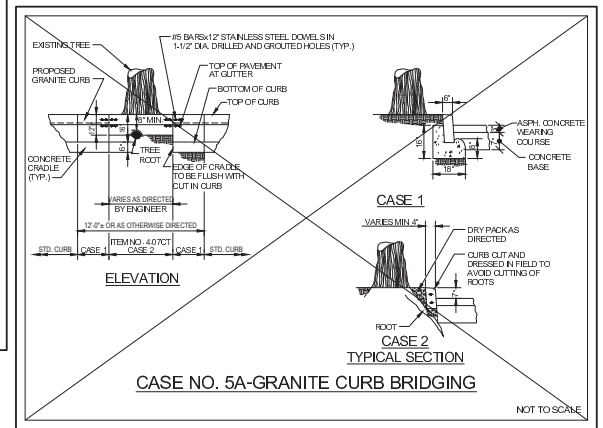
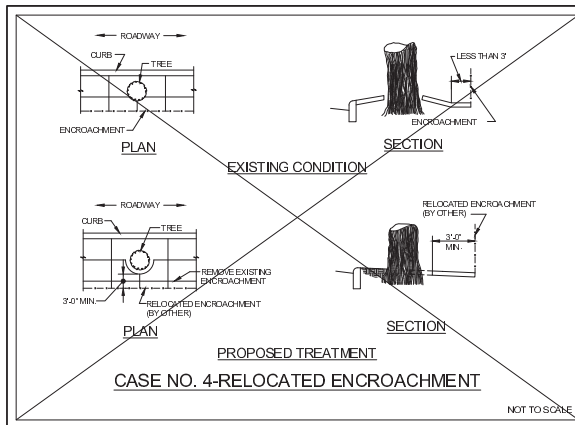
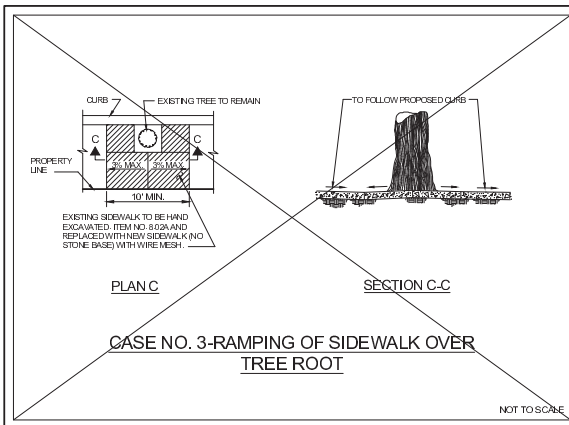
CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TREE MITIGATION PLAN 3
SCHENCK AVENUE
FROM STA. 51+21 TO 55+40

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN



SEE DOT STANDARD
DRAWING NO. H-1047
CASE NO. 5-REINFORCED CONCRETE CURB



DESIGNED: B. CONROW, B.L.A.
DRAWN: VERONICA HOLLER
CHECKED: C. WILKERSON, P.E.
CADD FILE:

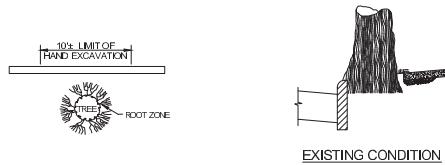
SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERNHARDT, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

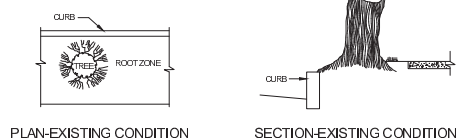
TREE MITIGATION DETAIL 1
SCHENCK AVENUE

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HAW707W FEDERAL AID NO. X77278		DATE: 3-5-21	SHEET 47 OF 70	THW/



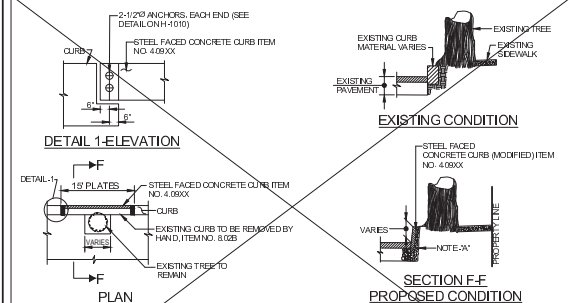
**CASE NO. 6-HAND REMOVAL OF EXISTING CURB
ADJACENT TO TREE(S)-ITEM NO.8.02B**

NOT TO SCALE



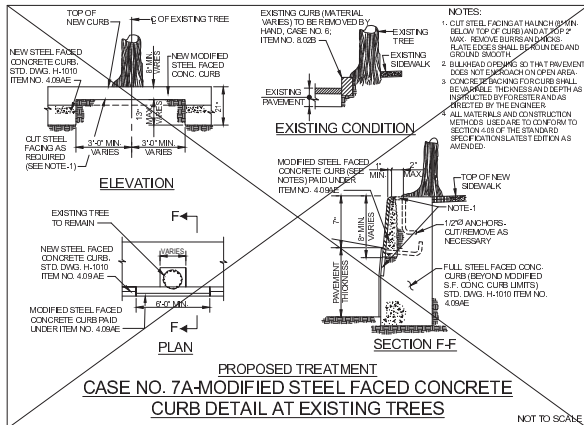
CASE NO. 6A-EXISTING CURB TO REMAIN

NOT TO SCALE



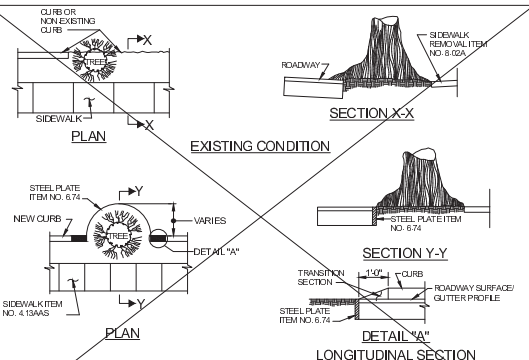
**CASE NO. 7-STEEL FACED CONCRETE
CURB (MODIFIED)***

NOT TO SCALE



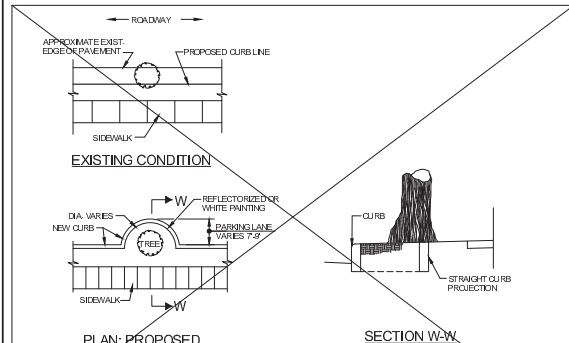
**CASE NO. 7A-MODIFIED STEEL FACED CONCRETE
CURB DETAIL AT EXISTING TREES**

NOT TO SCALE



CASE NO. 8-ROADWAY TREE PIT

NOT TO SCALE



CASE NO. 9-ROADWAY TREE PIT

NOT TO SCALE



DESIGNED: D. CONDRON, R.A.
DRAWN: VENCKE, HOUKLER
CHECKED: C. WILKINSON, P.E.

SCALE
AS SHOWN
CADD FILE: _____

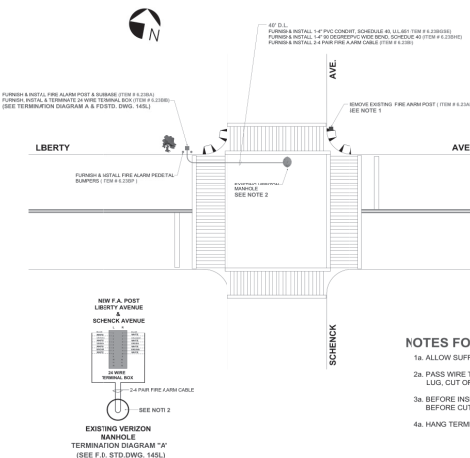
CORENDO WILKINSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERGMAN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

TREE MITIGATION DETAIL 2
SCHENCK AVENUE

NO.	DATE	DESCRIPTIONS	BY	APPROV.
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK35W FEDERAL AID NO: 9722-78		DATE: 3-5-21	SHEET 48 OF 70	THS JMS

IN HOUSE DESIGN

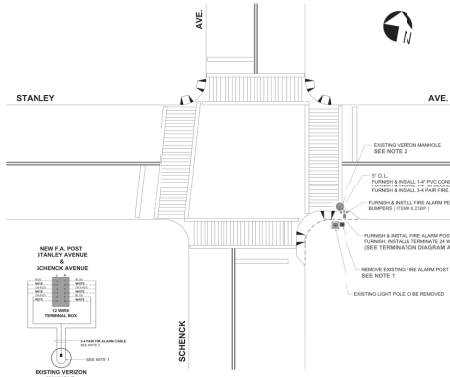


- NOTES FOR F.D. STD.DWG. 145L:**
- 1a. ALLOW SUFFICIENT SLACK FOR EACH WIRE TO REACH ANY TERMINAL LUG IN BOX.
 - 2a. PASS WIRE THROUGH SLOT IN TERMINAL LUG. WRAP THE WIRE THREE TIMES AROUND LUG, CUT OFF EXCESS AND SOLDER CONNECTIONS.
 - 3a. BEFORE INSERTING CABLES INTO TERMINAL BOX BRING THE CABLE UP TO THE TOP OF HOOKS BEFORE CUTTING THE CABLES AND STRIPPING THE JACKETS TO EXPOSE WIRES FOR TERMINATION.
 - 4a. HANG TERMINAL BOX WITH SOLDER SIDE FACING TRAFFIC.

NOTES

1. REMOVE OLD FIRE ALARM POST AFTER THE CONTRACTOR HAS INSTALLED THE NEW FIRE ALARM POST AND TERMINATED THE CABLES AND THE FIRE DEPARTMENT COMMUNICATION ELECTRICIANS HAVE SPLICED IN THE CABLES AND ACTIVATED THE NEW POST.
2. LEAVE 40 FEET OF SLACK IN 4 PAIR CABLE IN A LOOP IN EXISTING VERIZON MANHOLE FOR THE FIRE DEPARTMENT COMMUNICATION ELECTRICIANS TO MAKE SPLICE. PULL THE TWO OPEN ENDS OF CABLES UP INTO FIRE ALARM POST AND TERMINATE AS SHOWN.
3. TO REQUEST STREET MARK OUTS OF FIRE COMMUNICATIONS UNDERGROUND FACILITIES, THE CONTRACTOR MUST CONTACT PLANT OPERATIONS ENGINEERING AT (718) 261-3646 OR (718) 261-3833 AT LEAST ONE (1) MONTH PRIOR TO COMMENCEMENT OF WORK. FDNY IS NOT A MEMBER OF THE NYC CALL SYSTEM AND WILL NOT BE NOTIFIED BY THEM.
4. THE CONTRACTOR MUST CONTACT VERIZON FOR ANY POINT OF ENTRIES (P.O.E.'s) INTO THEIR MANHOLES AND OBTAIN WALL MARKOUTS BY THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL P.O.E. AND VERIZON INSPECTIONS.

CITY OF NEW YORK	
PROJECT NO.	HWK/97W
DESCRIPTION OF PROJECT AND AREA AFFECTED	RECONSTRUCTION OF SCHENCK AVENUE UNDERGROUND FACILITIES AND TERMINAL BOX
DESIGNED BY	VERICK HOUJIKER
CHECKED BY	C. WILKERSON, P.E.
DATE	06/15/21
SHEET NO.	1 OF 2
PROJECT NO.	Y.B.5505



- NOTES FOR F.D. STD. DWG. 145Y:**
- 1a. ALLOW SUFFICIENT SLACK FOR EACH WIRE TO REACH ANY TERMINAL LUG IN BOX.
 - 2a. PASS WIRE THROUGH SLOT IN TERMINAL LUG. WRAP THE WIRE THREE TIMES AROUND LUG CUT OFF EXCESS AND SOLDER CONNECTIONS.
 - 3a. LEAVE 40 FEET OF SLACK IN 4 PAIR CABLE IN A LOOP IN EXISTING VERIZON MANHOLE FOR THE FIRE DEPARTMENT COMMUNICATION ELECTRICIANS TO MAKE SPLICE. PULL THE TWO OPEN ENDS OF CABLES UP INTO FIRE ALARM POST AND TERMINATE AS SHOWN.
 - 4a. BEFORE INSERTING CABLES INTO TERMINAL BOX BRING THE CABLE UP TO THE TOP OF HOOKS BEFORE CUTTING THE CABLES AND STRIPPING THE JACKETS TO EXPOSE WIRES FOR TERMINATION.
 - 5a. HANG TERMINAL BOX WITH SOLDER SIDE FACING TRAFFIC.

NOTES

1. REMOVE OLD FIRE ALARM POST AFTER THE CONTRACTOR HAS INSTALLED THE NEW FIRE ALARM POST AND TERMINATED THE CABLES AND THE FIRE DEPARTMENT COMMUNICATION ELECTRICIANS HAVE SPLICED IN THE CABLES AND ACTIVATED THE NEW POST.
2. LEAVE 40 FEET OF SLACK IN 4 PAIR CABLE IN A LOOP IN EXISTING VERIZON MANHOLE FOR THE FIRE DEPARTMENT COMMUNICATION ELECTRICIANS TO MAKE SPLICE. PULL THE TWO OPEN ENDS OF CABLE UP INTO FIRE ALARM POST AND TERMINATE AS SHOWN. ALSO, LEAVE 20 FEET OF SLACK FOR THE SINGLE 4 PAIR CABLE AND HERMETICALLY SEAL THE END OF THE CABLE FOR THE FIRE DEPARTMENT COMMUNICATION ELECTRICIANS TO MAKE SPLICE. PULL THE OPEN END OF CABLE UP INTO FIRE ALARM POST AND TERMINATE AS SHOWN.
3. TO REQUEST STREET MARK OUTS OF FIRE COMMUNICATIONS UNDERGROUND FACILITIES, THE CONTRACTOR MUST CONTACT PLANT OPERATIONS ENGINEERING AT (718) 261-3646 OR (718) 261-3833 AT LEAST ONE (1) MONTH PRIOR TO COMMENCEMENT OF WORK. FDNY IS NOT A MEMBER OF THE NYC CALL SYSTEM AND WILL NOT BE NOTIFIED BY THEM.
4. THE CONTRACTOR MUST CONTACT VERIZON FOR ANY POINT OF ENTRIES (P.O.E.'s) INTO THEIR MANHOLES AND OBTAIN WALL MARKOUTS BY THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL P.O.E. AND VERIZON INSPECTIONS.

CITY OF NEW YORK	
PROJECT NO.	HWK/97W
DESCRIPTION OF PROJECT AND AREA AFFECTED	RECONSTRUCTION OF SCHENCK AVENUE UNDERGROUND FACILITIES AND TERMINAL BOX
DESIGNED BY	VERICK HOUJIKER
CHECKED BY	C. WILKERSON, P.E.
DATE	06/15/21
SHEET NO.	2 OF 2
PROJECT NO.	Y.B.5505

NO.	DATE	DESCRIPTIONS	BY	APPROVED
REVISIONS				

PROJECT: D-HWK/97W		DATE: 6/15/21	SHEET 80 OF 70	FDNY
FEDERAL AID NO. 372-70		RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN		



DESIGNED: BANA ABDALAM
DRAWN: VERICK HOUJIKER
CHECKED: C. WILKERSON, P.E.
CADD FILE: _____

SCALE
AS SHOWN

CORENDO WILKERSON, P.E.
ENGINEER-IN-CHARGE

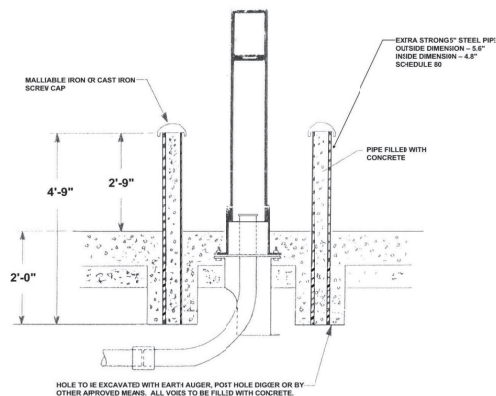
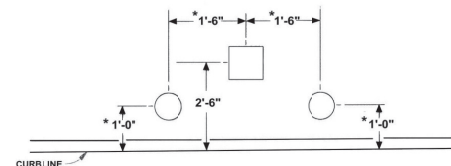
LINDSEY BERGMANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

FDNY STANDARD DRAWINGS 145L AND 145Y

REVISIONS	
DATE	INT.
07/15/2008	N.V.
02/16/2012	N.V.
11/23/2014	N.V.
11/16/2016	N.V.

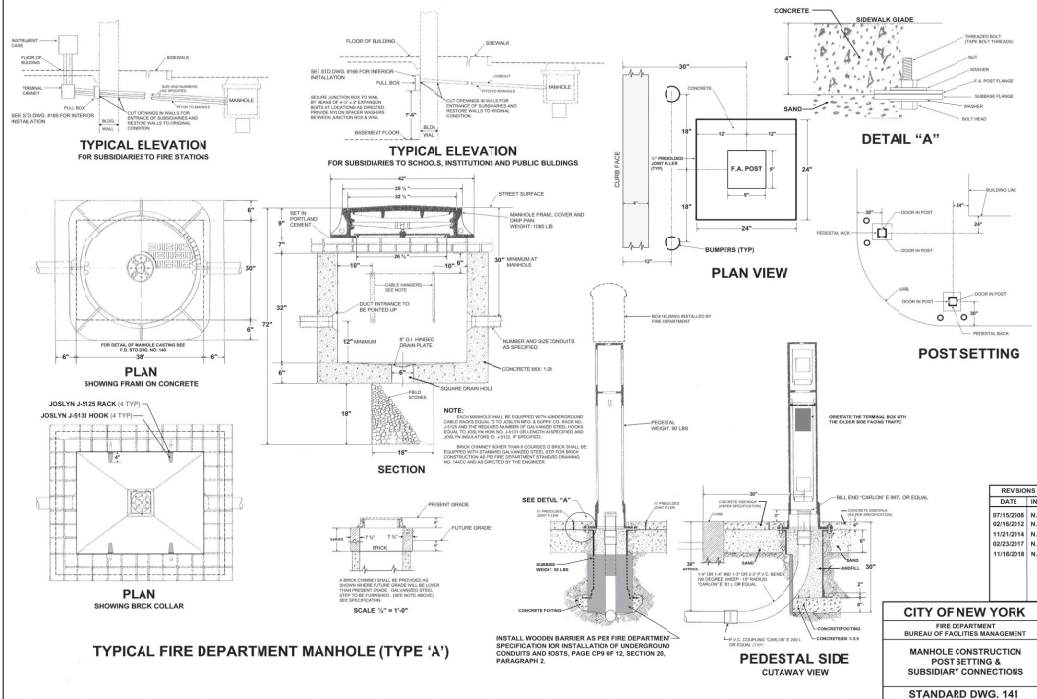
* DISTANCE MAY VARY DEPENDING ON FIELD CONDITIONS



NOTES:

1. CONCRETE AROUND FENDERS TO BE ONE (1) FOOT SQUARE AND TWO (2) FEET DEEP.
2. USE GALVANIZED STEEL FIVE INCH DIAMETER PIPE AND PAINT THE EXPOSED PIPE FEDERAL SAFETY YELLOW, TWO COATS.

CITY OF NEW YORK	
FIRE DEPARTMENT	
BUREAU OF FACILITIES MANAGEMENT	
INSTALLATION OF FIRE ALARM	
PEDESTAL BUMPERS	
STANDARD DRAWING 168	



REVISIONS	
DATE	INT.
07/15/2008	N.V.
02/16/2012	N.V.
11/23/2014	N.V.
02/23/2015	N.V.
11/16/2016	N.V.

CITY OF NEW YORK
FIRE DEPARTMENT
BUREAU OF FACILITIES MANAGEMENT
MANHOLE CONSTRUCTION
POST SETTING &
SUBSIDIARY CONNECTIONS
STANDARD DWG. 141



DESIGNED: RANA ARSALAN
DRAWN: VERICKE HOULIKER
CHECKED: C. WILKERSON, P.E.
CADD FILE: _____

SCALE
AS SHOWN





































CORENZA WILKERSON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERGMANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

FDNY STANDARD DRAWINGS 141 AND 168

NO.	DATE	DESCRIPTIONS	BY	APPRO'D
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT: D-HAWKSW FEDERAL AID NO. 372.70		DATE: 6.15.21	SHEET 51 OF 70	100


















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

SECTION	PLAN	LEGEND DESCRIPTION	ITEM #
		FLASHING ARROW BOARD	9.99*
		LIGHTED TIMBER BARRICADE	6.28 AA
		TIMBER CURB WITH ORANGE FENCING (NO SEPARATE PAYMENT)	6.26
		TIMBER CURB WITH CHAIN LINK FENCE	6.26 & 6.34 ACT
		PEDESTRIAN STEEL BARRICADE	7.36
		PLASTIC BARRELS	6.87
		TEMPORARY SIGN WITH TEXT	6.25 RS
		TEMPORARY CONCRETE BARRIER	6.59 P
		TEMPORARY CONCRETE BARRIER WITH FENCE	6.59 PF
		CROSSING GUARD	6.52 CG
		UNIFORMED FLAGPERSON FOR FEDERALLY FUNDED PROJECTS ONLY	6.52 FED
		VARIABLE MESSAGE SIGN	8.08**
		DECORATIVE MESH FABRIC FENCING	9.06 HW
		FENCING	70.31 FN**
		CONSTRUCTION WORK AREA	
		ONE WAY TRAFFIC (EXISTING)	
		TWO WAY TRAFFIC (EXISTING)	
		TRAFFIC DIRECTION DURING CONSTRUCTION	

* REFER TO STANDARD HIGHWAY SPECIFICATIONS SECTION 9.59.

** USE THESE ITEMS ONLY WHEN REQUESTED BY THE OFFICE OF CONSTRUCTION MITIGATION AND COORDINATION (O.C.M.C.) IN THEIR ENHANCED MITIGATION.

*** TO BE USED ON EVERY NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (N.Y.C. D.E.P.) WORK. THIS FENCING IS IN ADDITION TO ANY PROVISIONS THAT THE CONTRACTOR WOULD NORMALLY FOLLOW TO SAFEGUARD THE CONTRACTOR'S WORK OPERATIONS AND IN NO WAY REDUCES THE CONTRACTOR'S OBLIGATIONS AS PROVIDED IN THE CONTRACT. SEE N.Y.C. D.E.P. STANDARD SEWER AND WATER MAIN SPECIFICATIONS, SECTION 703.1. IN GENERAL, THE ENGINEER MUST BE ACQUAINTED WITH THE RESPECTIVE SPECIFICATIONS FOR THESE M.P.T. ITEMS.

TEMPORARY TRAFFIC SIGNS TABLE					
NAME	SIGN	MUTCD CODE	COLOR CODE	SIZE	DESCRIPTION
(A)		W20-1	A	36"x36"	ROAD WORK AHEAD
(B)		W20-2	A	36"x36"	DETOUR AHEAD
(C1)		M4-9	A	30"x24"	DETOUR (WITH ARROW)
(C2)		M4-9L	A	30"x24"	DETOUR (WITH LEFT ARROW)
(C3)		M4-9R	A	30"x24"	DETOUR (WITH RIGHT ARROW)
(DL)		W1-4	A	30"x30"	LARGE ARROW KEEP LEFT
(DR)		W1-4	A	30"x30"	LARGE ARROW KEEP RIGHT
(E)		R11-2	B	48"x30"	ROAD CLOSED
(F)		R11-3a	B	60"x30"	ROAD CLOSED (EXCEPT LOCAL & EMERGENCY TRAFFIC)
(GL)		W1-6L	A	48"x24"	ONE WAY (ARROW POINTING LEFT)
(GR)		W1-6R	A	48"x24"	ONE WAY (ARROW POINTING RIGHT)
(K)		R9-11	B	24"x18"	SIDEWALK CLOSED, CROSS HERE (WITH ARROW)
(L)		R9-10	B	24"x12"	SIDEWALK CLOSED, USE OTHER SIDE (WITH ARROW)
(M)		R3-2	B	24"x24"	NO LEFT TURN
(N)		R3-1	B	24"x24"	NO RIGHT TURN
(O)		G20-2	A	36"x18"	END ROAD WORK
(P)		W6-3	A	36"x36"	TWO WAY TRAFFIC

TEMPORARY TRAFFIC SIGNS TABLE					
NAME	SIGN	MUTCD CODE	COLOR CODE	SIZE	DESCRIPTION
(Q)		W4-2L	A	36"x36"	LANE REDUCTION TRANSITION SIGN
		W4-2R	A	36"x36"	
(R)		R3-3	B	24"x24"	NO TURNS
(S)		W20-3	A	36"x36"	ROAD CLOSED AHEAD
(T)		M6-4	B	21"x15"	DOUBLE ARROW
(U)		R7-4	C	18"x12"	NO STANDING ANYTIME
(V)		M6-1	B	21"x15"	ARROW (LEFT OR RIGHT)
(W)		R3-5	B	30"x36"	RIGHT (LEFT) TURN ONLY
(X)		R9-9	B	24"x12"	SIDEWALK CLOSED, USE WALKWAY
(Y)		W20-5	A	36"x36"	LANE CLOSED AHEAD
(Z)		W20-7a	A	36"x36"	CROSSING GUARD / FLAG PERSON

COLOR CODE LEGEND	
CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	RED LEGEND AND BORDER ON A WHITE BACKGROUND
D	BLACK AND WHITE LEGEND AND BORDER ON AN ORANGE BACKGROUND

NOTES:

- ALL SIGNS AS PER LATEST EDITION OF THE NATIONAL "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", (M.U.T.C.D.).
- DIMENSIONS ARE SHOWN IN INCHES AND ARE SHOWN AS WIDTH x HEIGHT.
- THESE TABLES ARE FOR REFERENCE PURPOSES ONLY. FOR ADDITIONAL SIGNAGE NOT SHOWN ON THESE TABLES (REFER TO THE M.U.T.C.D.).
- ALL SIGNS TO BE REFLECTORIZED.
- LETTERS ON SIGNS TO BE 5" HIGH.
- SIGN LOCATION TO BE DIRECTED AND APPROVED BY THE ENGINEER.
- MOUNTING OF SIGNS TO BE AS DIRECTED AND APPROVED BY THE ENGINEER.

NO.	DATE	DESCRIPTIONS	BY	APPROV
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HW0970W FEDERAL AID NO. X772.78		DATE	3/5/21	SHEET 62 OF 70



DESIGNED <u>BANA ASALAM</u>	SCALE AS SHOWN	ENGINEER-IN-CHARGE <u>CORENDO WILKINSON, P.E.</u>
DRAWN <u>VERONIC HOUAGER</u>	CADD FILE	DIRECTOR <u>ANDREY BERENHAIN, P.E.</u>

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DEPARTMENT OF DESIGN + CONSTRUCTION
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MAINTENANCE AND PROTECTION OF TRAFFIC - 1
TABLE OF CONTENTS, LEGEND, TEMPORARY TRAFFIC
SIGNS TABLE AND NOTES

WHOLE-HOUSE DESIGN

STAGE I : REMOVAL OF TROLLEY TRACKS AND YOKES

1. THE CONTRACTOR SHALL INITIALIZE THE CONSTRUCTION OF NEW WORK AREA OF ONLY ONE (1) BLOCK BEFORE BEING PERMITTED TO CONTINUE TO OCCUPY A MAXIMUM LENGTH "WORK AREA" OF 3 BLOCKS WHERE BLOCK LENGTH IS 200 FT. AND ONE BLOCK WHERE BLOCK LENGTH IS 700 FT. OR LARGER.
2. CONTRACTOR SHALL ESTABLISH WORK AREA WIDTHS AND MAINTAIN TRAFFIC LANES ADJACENT TO EACH WORK AS INDICATED IN TYPICAL PLANS.
3. THE CONTRACTOR SHALL PLACE CONSTRUCTION SIGNS, TIMBER CURBS, BARRELS AND/OR OTHER TRAFFIC CONTROL DEVICES TO DELINEATE WORK AREAS AND VEHICULAR TRAFFIC LANES AS SHOWN IN TYPICAL PLANS AND SECTIONS. INSTALL AND MAINTAIN NO STANDING SIGNS CONTINUOUSLY FOR THE LENGTH OF THE WORK AREA.
4. TRENCHES WITHOUT SHEETING: BACKFILL TRENCH AND PLACE TEMPORARY PAVEMENT OF 4" ASPHALTIC CONCRETE MIXTURE TO MEET EXISTING PAVEMENT, OR PROVIDE STEEL PLATES, AS APPROVED BY THE ENGINEER, TO COMPLETELY COVER THE TRENCH. NO OPEN TRENCH SHALL BE PERMITTED AT THE END OF ANY WORK DAY.

TRENCHES WITH SHEETING: SHEETED TRENCHES MAY REMAIN OPEN AT THE END OF A WORK DAY EXCEPT AT INTERSECTIONS WHERE STEEL PLATING SHALL BE REQUIRED FOR MAINTENANCE OF VEHICULAR AND PEDESTRIAN TRAFFIC FENCING SHALL BE PLACED AND MAINTAINED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL, ON DEMAND, INTERRUPT ITS OPERATIONS AND PROVIDE STEEL PLATES OVER OPEN TRENCHES TO PROVIDE ACCESS TO PROPERTIES AS DIRECTED BY THE ENGINEER AT NO SEPARATE PAYMENT.
6. UPON COMPLETION OF WORK AT EACH LOCATION, INCLUDING TEMPORARY RESTORATION OF PAVEMENT TO THE SATISFACTION OF THE ENGINEER, REMOVE LIGHTED BARRICADES, TIMBER CURBS, TEMPORARY FENCING, AND CONSTRUCTION SIGNS AND RESTORE, REOPEN AND RETURN THE FULL WIDTH OF THE ROADWAY TO PUBLIC SERVICE.
7. "WORK AREAS" SHALL BE CONSIDERED AS BEING FLOATING SEGMENTS AND THE ADVANCEMENT OF THE "WORK AREAS" SHALL BE PROGRESSED ONLY A DISTANCE EQUAL TO THAT PORTION OF TRENCH BACKFILLED AND RESTORED WITH 4" ASPHALTIC CONCRETE MIXTURE, TO BE RETURNED TO SERVICE EACH DAY.

STAGE II : CONSTRUCTION/REPLACEMENT OF SEWERS

1. PLACE CONSTRUCTION SIGNS, BARRICADES, BARRELS AND/OR OTHER TRAFFIC CONTROL DEVICES TO DELINEATE A WORK AREA AS SHOWN IN TYPICAL PLANS AND SECTIONS.
2. AS THE WORK ADVANCES, THE CONTRACTOR SHALL RELOCATE AND ADJUST BARRICADES, BARRELS AND OTHER TRAFFIC CONTROL DEVICES.
3. SHEETED TRENCHES MAY REMAIN OPEN AT THE END OF A WORK DAY EXCEPT AT INTERSECTIONS WHERE STEEL PLATING SHALL BE REQUIRED FOR MAINTENANCE OF VEHICULAR AND PEDESTRIAN TRAFFIC FENCING SHALL BE PLACED AND MAINTAINED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL NOT ADVANCE THE LIMITS OF THE WORK AREA UNTIL SUCH TIME AS THE TEMPORARY PAVEMENT RESTORATION IS COMPLETED AND APPROVED BY THE ENGINEER. THE WORK AREA CAN BE ADVANCED A MAXIMUM DISTANCE EQUAL TO THE LENGTH OF ROADWAY RESTORED AND RETURNED TO PUBLIC SERVICE EACH DAY.
5. THE CONTRACTOR SHALL EMPLOY AND ASSIGN CROSSING GUARDS/FLAGPERSON AT LOCATIONS SPECIFIED BY THE ENGINEER TO ASSIST IN CONTROLLING THE FLOW OF TRAFFIC (NO SEPARATE PAYMENT).

STAGE III : INSTALLATION OF CATCH BASINS AND BASIN CONNECTIONS

1. THE CONTRACTOR SHALL UTILIZE THE M.P.T. CONFIGURATION FOR BASIN EXCAVATION AND FOR THE BASIN CONNECTION PIPE AS INDICATED IN M.P.T. DETAIL FOR THIS STAGE.
2. CATCH BASINS SHALL NOT BE CONSTRUCTED ON BOTH SIDES OF THE STREET SIMULTANEOUSLY.
3. MAINTAIN ONE PEDESTRIAN CROSSING AT CORNERS AND MAINTAIN PEDESTRIAN TRAFFIC ON SIDEWALK AT ALL TIMES. A MINIMUM WIDTH OF FIVE (5) FEET OF SIDEWALK SHALL REMAIN CLEAR AT ALL TIMES.
4. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL BACKFILL ALL TRENCHES AND PLACE TEMPORARY PAVEMENT OF ASPHALT CONCRETE MIXTURE (NO SEPARATE PAYMENT) TO MEET EXISTING PAVEMENT, OR PROVIDE STEEL PLATES AS APPROVED BY THE ENGINEER TO COMPLETELY COVER THE TRENCH. PAYMENTS FOR STEEL PLATES ARE TO BE INCLUDED IN PRICES BID FOR ALL SCHEDULED ITEMS.

STAGE IV : INSTALLATION OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL ESTABLISH WORK ZONE AS INDICATED IN APPROVED TYPICAL PLAN.
2. FOR ANY SIDEWALK CONNECTIONS (HYDRANTS) ONE FIVE (5) FOOT CLEAR SIDEWALK FOR PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.
3. AT THE END OF EACH DAY'S WORK, PROVIDE STEEL PLATES AS APPROVED BY THE ENGINEER TO COMPLETELY COVER THE TRENCH. PAYMENT FOR STEEL PLATES TO BE INCLUDED IN PRICE BID FOR ALL SCHEDULED ITEMS.
4. UPON COMPLETION OF CONSTRUCTION IN EACH WORK AREA, CONTRACTOR SHALL REMOVE PLASTIC BARRELS OR OTHER TRAFFIC CONTROLS DEVICES AND CONSTRUCTION SIGNS AND OPEN FULL ROADWAY TO TRAFFIC.
5. THE CONSTRUCTION SHALL EMPLOY AND ASSIGN A UNIFORM FLAG PERSON AT LOCATION SPECIFIED BY THE ENGINEER TO ASSIST IN CONTROLLING THE FLOW OF TRAFFIC AS REQUIRED AND DIRECTED BY THE ENGINEER. PAYMENT SHALL BE MADE UNDER ITEM NO. 6.32 FIED.

STAGE V : CONSTRUCTION OF NEW CURBS

1. THE CONTRACTOR WILL BE PERMITTED TO OCCUPY ONE LANE OF THE ROADWAY IMMEDIATELY ADJACENT TO THE CURB LINE TO REMOVE EXISTING CURB AND CONSTRUCT NEW CURBS AS APPROVED AND DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL INITIALIZE THE CONSTRUCTION OF NEW CURBS IN A WORK AREA OF 200 FEET ONLY. AFTER A SATISFACTORY START OF THE WORK, AS APPROVED AND DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL BE PERMITTED TO EXTEND THE WORK AREA TO THE MAXIMUM LENGTH OF 600 FEET.
3. PLACE PLASTIC BARRELS TO DELINEATE THE WORK AREA WIDTH AND PEDESTRIAN STEEL BARRICADES FOR THE PROTECTION OF PEDESTRIANS AS SHOWN IN TYPICAL PLANS AND AS DIRECTED BY THE ENGINEER.
4. PLACE CONSTRUCTION SIGNS AS SHOWN IN TYPICAL PLANS AND AS REQUIRED BY THE ENGINEER.
5. STRAIGHT CURB AND CORNER CURB SHALL NOT BE DISTURBED SIMULTANEOUSLY WITHIN THE SAME BLOCK.
6. MAINTAIN PEDESTRIAN CROSSING AT CORNERS AT ALL TIMES BY RELOCATION OF CROSSWALKS TO AREA OF STRAIGHT CURB ADJACENT TO CORNERS UNDER CONSTRUCTION. ONLY ONE CORNER AT A TIME, PER INTERSECTION MAY BE CONSTRUCTED, EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER.
7. MAINTENANCE OF PEDESTRIAN ACCESS TO ALL ABUTTING PROPERTIES, ENTRANCES AND EXITS FROM DWELLINGS, EMERGENCY EXIT AREAS SHALL BE CONTINUOUS AT ALL TIMES.
8. UPON COMPLETION OF CURB WORK AT EACH LOCATION THE CONTRACTOR SHALL BACKFILL AND UNDER CURB AND PLACE 4" ASPHALTIC CONCRETE MIXTURE TO RESTORE STREET. RESTORE SIDEWALK WITH 2" ASPHALTIC CONCRETE MIXTURE AT CORNERS ONLY WHERE DIRECTED BY THE ENGINEER. MAINTAIN PEDESTRIAN TRAFFIC AT CROSSWALK AREAS.
9. UPON COMPLETION OF EACH DAY'S WORK THE CONTRACTOR SHALL RELOCATE THE BARRELS AND BARRICADES ADJACENT TO THE CURB. THERE SHALL BE NO DIRECT PAYMENT FOR THE DAILY RELOCATION OF BARREL AND BARRICADES HEREUNDER.
10. EACH DAY THE WORK AREA MAY BE ADVANCED A MAXIMUM DISTANCE EQUAL TO THE LENGTH OF CURBS SUBSTANTIALLY COMPLETED ON THAT DAY, WHICH SHALL BE DEFINED AS INCLUDING TEMPORARY PAVEMENT RESTORATION AS APPROVED BY THE ENGINEER.
11. WORKING SIMULTANEOUSLY ON BOTH SIDES OF THE STREET WILL NOT BE PERMITTED.

STAGE VI : INSTALLATION OF NEW STREET LIGHTING AND TRAFFIC SIGNALS AND CONSTRUCTION OF NEW SIDEWALKS

1. SIDEWALK CONSTRUCTION SHALL PROCEED IMMEDIATELY UPON COMPLETION OF CURBS AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL BARRICADES WITH LIGHTS, AND WARNING SIGNS TO DELINEATE THE WORK AREAS AS SHOWN ON PLAN.
3. THE CONTRACTOR WILL BE PERMITTED TO OCCUPY ONE LANE OF THE ROADWAY IMMEDIATELY ADJACENT TO THE CURB TO REMOVE EXISTING SIDEWALK AND CONSTRUCT NEW SIDEWALK AS APPROVED AND DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL CLOSE THE SIDEWALK AND DIVERT PEDESTRIANS AROUND THE WORK AREA AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. SIDEWALK ADJACENT TO CORNER CURBS AND SIDEWALK ADJACENT TO STRAIGHT CURB SHALL NOT BE DISTURBED SIMULTANEOUSLY WITHIN THE SAME BLOCK.
6. THE CONTRACTOR SHALL FURNISH, INSTALL AND REMOVE TEMPORARY PEDESTRIAN PASSAGEWAYS, AND PROVIDE TEMPORARY PEDESTRIAN BRIDGES IN ACCORDANCE WITH TYPICAL PLAN TO FACILITATE THE FLOW OF PEDESTRIAN TRAFFIC AND ACCESS TO PRIVATE PROPERTY AS AND WHERE DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL LIMIT THE EXTENT OF EXISTING SIDEWALK REMOVED EACH DAY TO THE SAME AREA OF CONCRETE SIDEWALK THAT WILL BE REPLACED THE FOLLOWING DAY. NO UNPROTECTED EXCAVATION SHALL REMAIN AT THE END OF EACH DAY'S WORK.
8. PROVIDE SMOOTH TRANSITION WITH ASPHALTIC CONCRETE MIXTURE BETWEEN SIDEWALK COMPLETED AND WORK YET TO BE STARTED.
9. CONTRACTOR SHALL PROVIDE LOCAL PEDESTRIAN ACCESS AT ALL TIMES FOR NORMAL BUILDING ACTIVITY.
10. AFTER COMPLETING THE WORK IN THE SIDEWALK AREA THE CONTRACTOR SHALL REMOVE ALL BARRICADES WITH LIGHTS, TEMPORARY SIGNS AND OTHER WARNING DEVICES AND ALL SURPLUS CONSTRUCTION MATERIAL, AND SHALL REOPEN THE SIDEWALK TO PEDESTRIAN TRAFFIC AS DIRECTED BY ENGINEER.

STAGE VII : CONSTRUCTION OF ROADWAY PAVEMENT

1. THE CONTRACTOR SHALL ESTABLISH A WORK AREA AS SHOWN IN TYPICAL PLANS, FOR THE CONSTRUCTION OF ROADWAY PAVEMENT.
2. MAINTAIN AT LEAST ONE PEDESTRIAN CROSSWALK AT EACH CORNER. PEDESTRIAN TRAFFIC SHALL BE DETOURED AROUND WORK ZONE.
3. MAINTENANCE OF PEDESTRIAN ACCESS TO ALL ABUTTING PROPERTIES, ENTRANCES AND EXITS FROM DWELLINGS, AND PEDESTRIAN USAGE OF THE SIDEWALK AREAS, SHALL BE CONTINUOUS AT ALL TIMES.
4. AFTER THE COMPLETION OF NEW PAVEMENT BASE AND CURING, RAMP AROUND MANHOLE HEADS WITH TEMPORARY ASPHALTIC CONCRETE MIXTURE, REMOVE BARRICADES, BARRELS AND OTHER TEMPORARY DEVICES AND OPEN THE ROADWAY FOR TRAFFIC, AS DIRECTED BY THE ENGINEER.
5. AFTER COMPLETION OF PAVEMENT IN THE WORK AREA, THE CONTRACTOR SHALL REMOVE BARRICADES, BARRELS, FENCING AND CONSTRUCTION SIGNS. OPEN FULL ROADWAY TO TRAFFIC AS DIRECTED BY THE ENGINEER.

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REVISIONS			



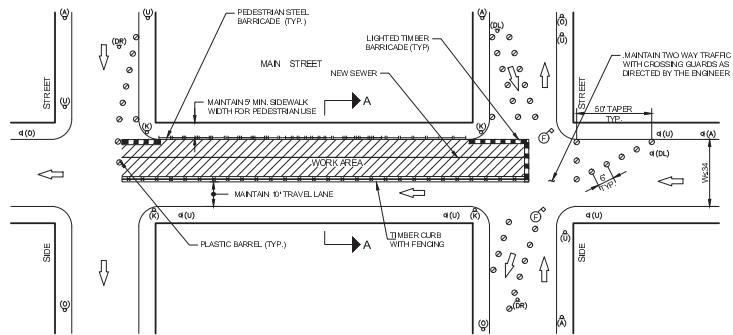
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DRAWN <u>VENOCK HOSSEIN</u>	CADD FILE	LINDSEY BERGMAN, P.E. DIRECTOR
CHECKED <u>C. WILKINSON, P.E.</u>		

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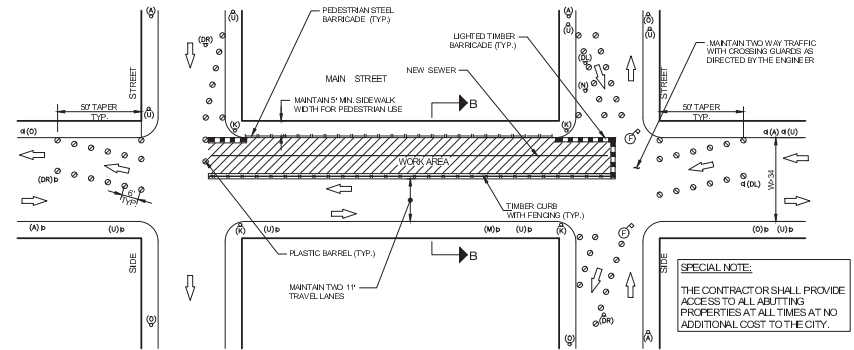
MAINTENANCE AND PROTECTION OF TRAFFIC - 3
GENERAL NOTES - STAGES

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

PROJECT ID: HDW0707 FEDERAL AID NO. 4772.78	DATE 3/5/21	SHEET 54 OF 70	DP3 DP11.1
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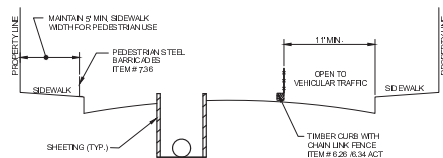


TYPICAL PLAN FOR INSTALLATION OF SEWERS
WITHIN ONE-WAY STREETS
N.T.S.



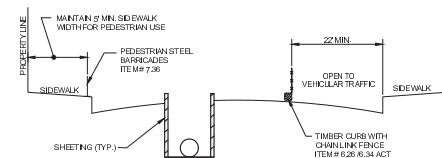
TYPICAL PLAN FOR INSTALLATION OF SEWERS
WITHIN TWO-WAY STREETS
N.T.S.

SPECIAL NOTE:
THE CONTRACTOR SHALL PROVIDE
ACCESS TO ALL ADJUTING
PROPERTIES AT ALL TIMES AT NO
ADDITIONAL COST TO THE CITY.



SECTION A-A
WORKING AND NON-WORKING HOURS
N.T.S.

NOTE:
1. NUMBER OF LANES TO BE MAINTAINED AS
PER THE O.C.M.C. TRAFFIC STIPULATIONS



SECTION B-B
WORKING AND NON-WORKING HOURS
N.T.S.

NO.	DATE	DESCRIPTIONS	BY	APPROV
REVISIONS				



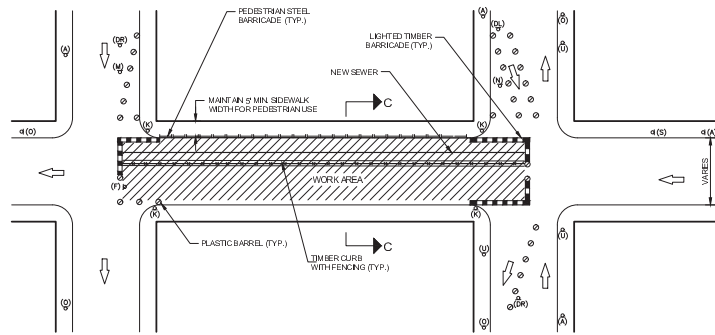
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DRAWN <u>VERONIC HOUKER</u>	CADD FILE	DIRECTOR <u>LINDSEY BERGMANN, P.E.</u>

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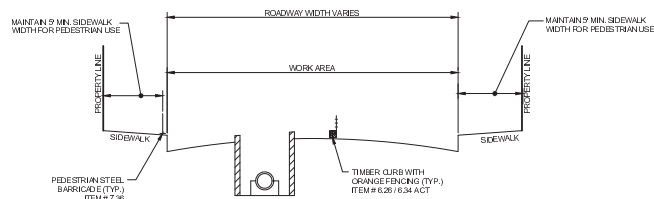
MAINTENANCE AND PROTECTION OF TRAFFIC - 5
STAGE II : INSTALLATION OF SEWERS

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

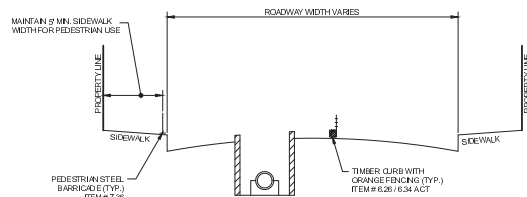
PROJECT ID: HWK000000 FEDERATION NO: X772.78	DATE 3/5/21	SHEET 56 OF 70	IFPS 10/1/11
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TYPICAL PLAN FOR INSTALLATION OF SEWERS
WITHIN CLOSED STREETS
N.T.S.



SECTION C-C: WORKING HOURS
N.T.S.



SECTION C-C: NON-WORKING HOURS
N.T.S.

NO.	DATE	DESCRIPTIONS	BY	APPROD
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT ID: HWK07W FEDERAL AID NO. X77278		DATE: 3/5/21	SHEET 57 OF 70	IN CHARGE DESIGN



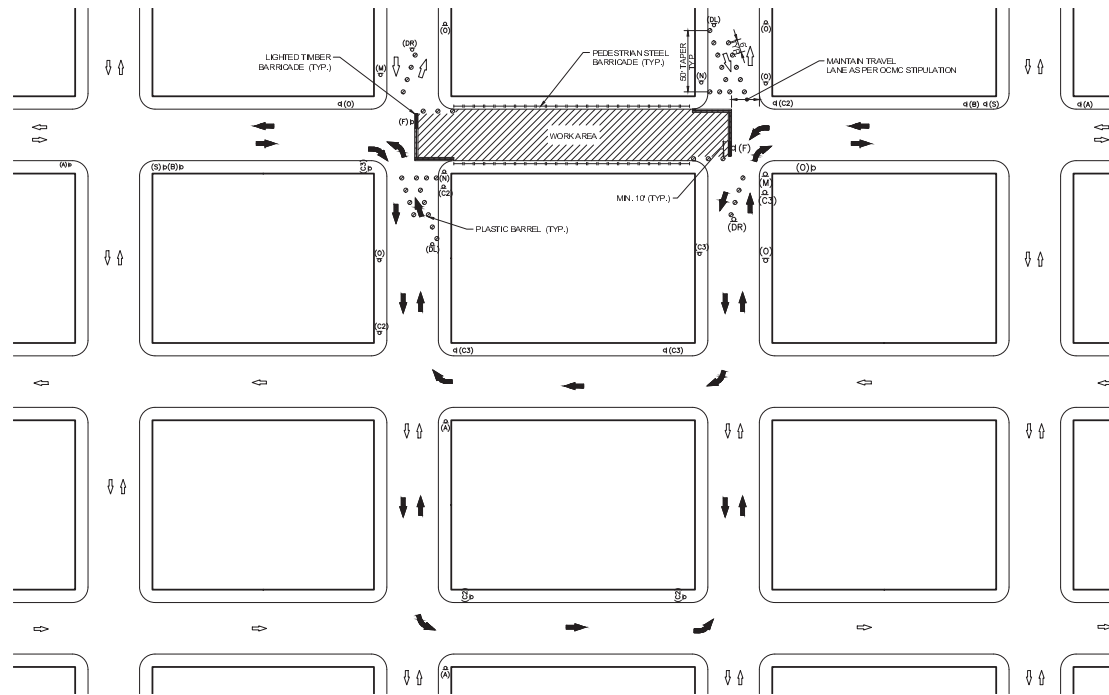
DESIGNED: BANA ASSALAM
DRAWN: VERONIC HOUWER
CHECKED: C. WILKINSON, P.E.

SCALE:
AS SHOWN
CADD FILE

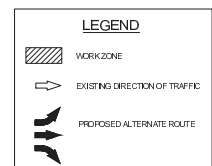
ENGINEER-IN-CHARGE:
CORENDO WILKINSON, P.E.
DIRECTOR:
LINDSEY BERGMANN, P.E.

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
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BUREAU OF DESIGN

MAINTENANCE AND PROTECTION OF TRAFFIC - 6
CONSTRUCTION / REPLACEMENT OF
SEWERS WITHIN CLOSED STREET



TYPICAL STREET CLOSING / DETOUR PLAN
N.T.S.



NO.	DATE	DESCRIPTIONS	BY	APPROVED
REVISIONS				
PROJECT ID: H4V097W		DATE	3/5/21	SHEET 50 OF 70
FEDERAL AID NO. X772.7B				



DESIGNED: RAMA ASSALAM
DRAWN: YERICK HOUAKER
CHECKED: C. WILKINSON, P.E.

SCALE
AS SHOWN
CADD FILE

ENGINEER-IN-CHARGE
CORENDO WILKINSON, P.E.
DIRECTOR
LINDSEY BERGMANN, P.E.

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

MAINTENANCE AND PROTECTION OF TRAFFIC - 7
STREET CLOSING/DETOUR PLAN

RECONSTRUCTION OF SCHENCK AVENUE
BOROUGH OF BROOKLYN

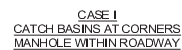
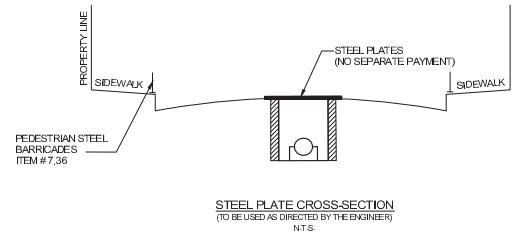


Diagram illustrating the water connection for fire hydrants, showing the layout of the water main, pedestrian steel barricades, and the work area for the connection.

Key components and dimensions shown in the diagram:

- NEW WATER MAIN:** The main water supply line.
- PLASTIC BARREL (TYP):** A component used in the connection.
- MAINTAIN ONE 11' TRAVEL LANES:** A requirement for the travel lanes on the right side of the main.
- PEDESTRIAN STEEL BARRICADES ITEM #7.35:** Two barricades are shown, one on each side of the work area.
- WORK AREA:** The area where the connection is being made, marked with a dashed line and a 20' MAX. dimension.
- LIGHTED TIMBER BARRICADE (TYP):** A component used in the connection.
- MAINTAIN 5' MIN. SIDEWALK WIDTH FOR PEDESTRIAN USE:** A requirement for the sidewalk width on the left side of the main.
- WATER CONNECTION FOR FIRE HYDRANTS:** The main purpose of the diagram.
- Dimensions:**
 - 20' MAX. (Work Area width)
 - 50' TAPER (Work Area length)
 - 16' (Distance from barricade to work area)
 - 11' (Travel lane width)
 - 5' (Sidewalk width)
- Labels:**
 - $a(0)$, $a(u)$, $a(v)$, $a(A)$ (Main line labels)
 - $a(00)$ (Barricade label)
 - $a(v)$ (Work area label)
 - $W=34'$ (Total width)



**Department of
Design and
Construction**

DESIGNED RANA ARSALAN
DRAWN VERICKE HOUKER
CHECKED G. WILKERSON, P.E.

SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE

LINDSEY BERKHANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

<p>MAINTENANCE AND PROTECTION OF TRAFFIC - 8</p> <p>STAGE III & IV</p> <p>INSTALLATION OF CATCH BASINS & BASIN CONNECTIONS</p> <p>INSTALLATION OF FIRE HYDRANTS</p>

RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN			
PROJECT ID: HWK797W FEDERAL AID NO. X772.78	DATE 3/5/21	SHEET 59 OF 70	DATE 3/5/21



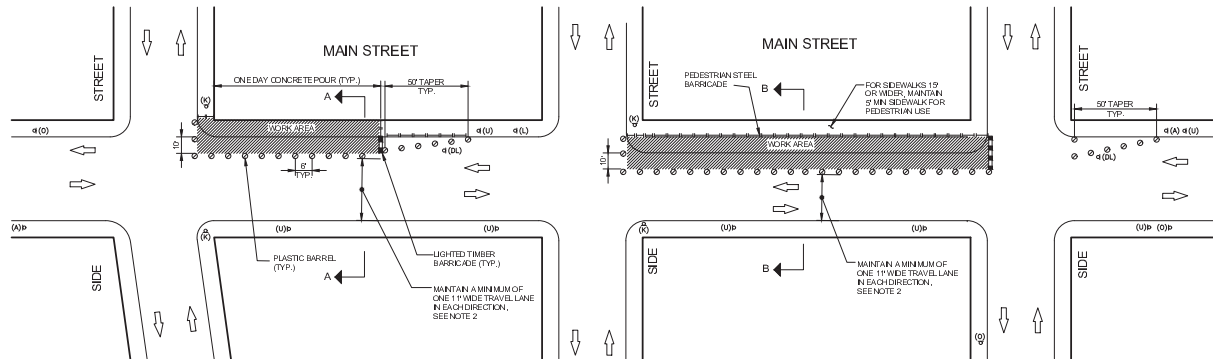
NOT TO SCALE

* AS PER N.Y.C. D.O.T. STANDARD
DETAILS OF CONSTRUCTION
DRAWING #H-1054

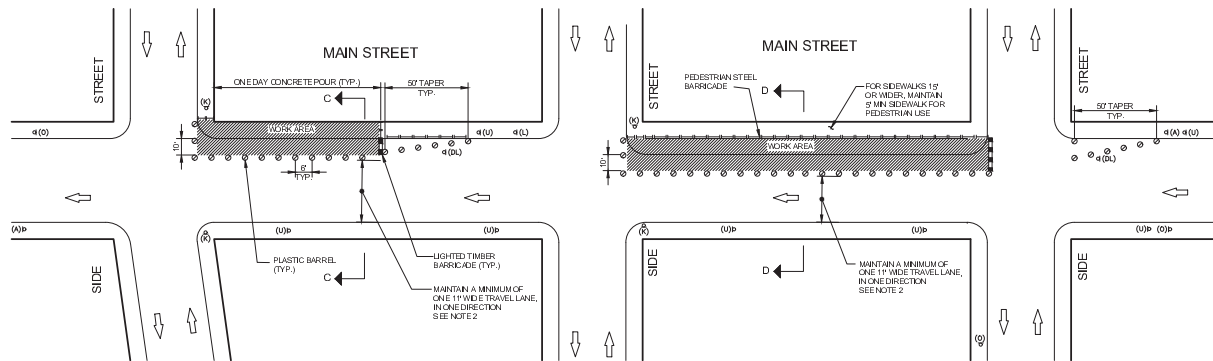
NOTE:

1. NUMBER OF LANES TO BE MAINTAINED AS PER THE O.C.M.C. TRAFFIC STIPULATIONS

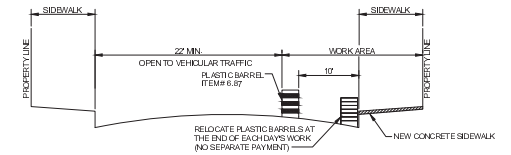




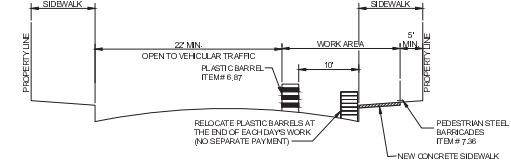
TYPICAL PLAN FOR CONSTRUCTION OF NEW SIDEWALKS
WITHIN RESIDENTIAL AREAS (TWO WAY)
N.T.S.



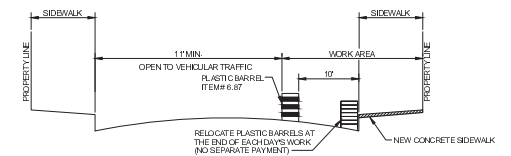
TYPICAL PLAN FOR CONSTRUCTION OF NEW SIDEWALKS
WITHIN RESIDENTIAL AREAS (ONE WAY)
N.T.S.



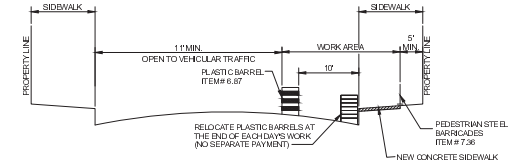
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTE:

1. FOR STREETS LESS THAN 34' WIDE MAINTAIN TRAFFIC WITH CROSSING GUARDS/FLAGPERSON
2. NUMBER OF LANES TO BE MAINTAINED AS PER THE Q.C.M.C. TRAFFIC STIPULATIONS



DESIGNED: RANA ARSALAN
DRAWN: VERONICA HOUKES
CHECKED: C. WILKESON, P.E.
CADD FILE

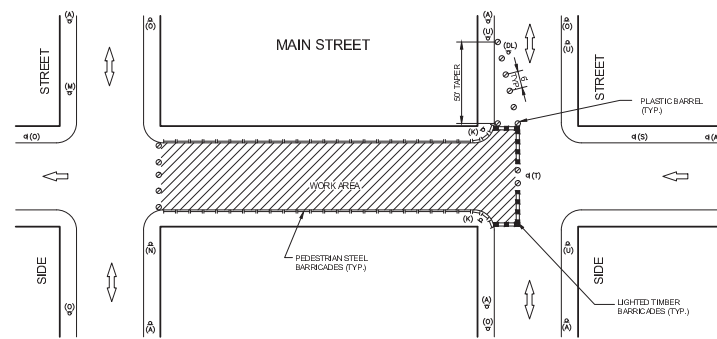
SCALE
AS SHOWN

CORENDO WILKESON, P.E.
ENGINEER-IN-CHARGE
LINDSEY BERGMANN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

MAINTENANCE AND PROTECTION OF TRAFFIC - 10
STAGE VI: INSTALLATION OF NEW STREET LIGHTING
AND TRAFFIC SIGNALS AND CONSTRUCTION OF
NEW SIDEWALKS

NO.	DATE	DESCRIPTIONS	BY	APPROV
REVISIONS				
RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN				
PROJECT: EHW0707W FEDERAL AID NO. X72.78		DATE: 3/5/21	SHEET 81 OF 70	



NOTES:

1. FOR FULL ROAD CLOSURE, A DETOUR PLAN MUST BE PREPARED



- NOTES:

1. ON STREETS WITH HEAVY TRAFFIC USE CONCRETE BARRIERS INSTEAD OF TIMBER CURB TO SEPARATE THE WORK AREA FROM VEHICULAR TRAFFIC
2. NUMBER OF LANES TO BE MAINTAINED AS PER O.C.M.C. TRAFFIC STIPULATIONS

[illegible]

DESIGNED RANA ARSALAN
DRAWN VERICKE HOULKER
CHECKED C. WILKERSON, P.E.

SCALE
AS SHOWN

CORENZO WILKERSON, P.E.
ENGINEER-IN-CHARGE

LINDSEY BERKHAHN, P.E.
DIRECTOR

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

MAINTENANCE AND PROTECTION OF TRAFFIC - 11
STAGE VII : CONSTRUCTION OF ROADWAY PAVEMENT

RECONSTRUCTION OF SCHENCK AVENUE BOROUGH OF BROOKLYN			
PROJECT ID: HWK797W FEDERAL AID NO: X772.78	DATE 3/5/21	SHEET 62 OF 70	MPT11 MPT11

EXPLANATION OF TERMS

Description Term	Pass Sieve No.	Retained Sieve No.	Size Range
Clay			
Silt	200	(Note 1)	> 0.075 mm
Fine Sand (F)	40	200	0.075 to 0.425 mm
Medium Sand (M)	10	40	0.425 to 0.250 mm
Coarse Sand (C)	4	10	0.250 to 0.475 mm
Gravel (Note 2)			4.75 to 19 mm (3")
Boulders			> 12"

NOTES: 1. Aterberg limit can be conducted to classify fine grained soil to classify the sample in addition to field tests.
 2. If a visual observation is not possible, conduct a sieve analysis to determine the size of the material.

QUANTITATIVE ESTIMATE		FINE-GRAINED SOIL	
Minus Components	Percentage Range	Soil Type	Plasticity Index
AND SOME	20 - 35	SILT	None
LITTLE	10 - 20	SILT & CLAY	1/8 inch thread
VERY LITTLE	< 10	CLAY	1/16 inch thread

UNIFIED SOIL CLASSIFICATION SYSTEM

USCS	Typical Descriptions
GP	Well graded gravel, gravel - sand mixtures, less than 15% fines.
GM	Silty gravel, gravel - sand - silt mixtures, less than 12% fines.
GC	Gravelly sand, gravel - sand - clay mixtures, less than 12% fines.
SW	Well graded sands, gravelly sands, less than 5% fines.
SM	Silty sand, gravelly sand - silt mixtures, less than 12% fines.
SC	Clayey sand, sand - clay mixtures, less than 12% fines.

CLAY CLASSIFICATION SYSTEM

USCS	Typical Descriptions
ML	Low plasticity clay and silty clay, non-expansive, less than 15% fines.
CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
OL	Organic silty clay or organic silty clay of low plasticity.
IL	Inorganic silty, micaceous or dishonorous fine clay of low to medium plasticity.
CL	Inorganic clays of high plasticity. Fat clays.
OL	Organic silty clay.
PT	Peat and other highly organic soils.

NEW YORK CITY BUILDING CODE CLASS OF MATERIAL

1. Bedrock 2. Hard sound rock 3. Medium sound rock 4. Soft rock 5. Sandy gravel and gravel (GF, GP) 6. Gravelly sand 7. Granular soils (GM, GW, SW, SM and SC) 8. Medium	4. Clays (SC, CL and CH) 5. Silts and silty soils (SL and MH) 6. Medium 7. Normally unsatisfactory bearing materials 7. Controlled and uncontrolled fills
---	---

HARDNESS:

Very (V) Hard - intact specimen can only be chipped.
 Extremely (E) Hard - intact specimen can only be ground to powder.
 Very (V) Hard - Cannot be scratched with a steel nail. Test specimen breaks by repeated, heavy blows with geological hammer.
 Hard - Intact specimen requires more than one hammer blow to break it. Can be faintly scratched by steel nail.
 Moderately (M) Hard - Can be crushed or crumbled with soil. Can be distinctly scratched with a steel nail.
 Firm - Intact specimen requires 100 to 125 blows to 1/2 in. can be made by firm blows with point of geological pick.
 Soft - Hand held specimen crumbles under firm blow with point of standard pick.
 Very (V) Soft - Can be scratched with fingernail. Slight resistance to probing by light blow of point of geological pick.

ROCK CLASSIFICATION WEATHERING:

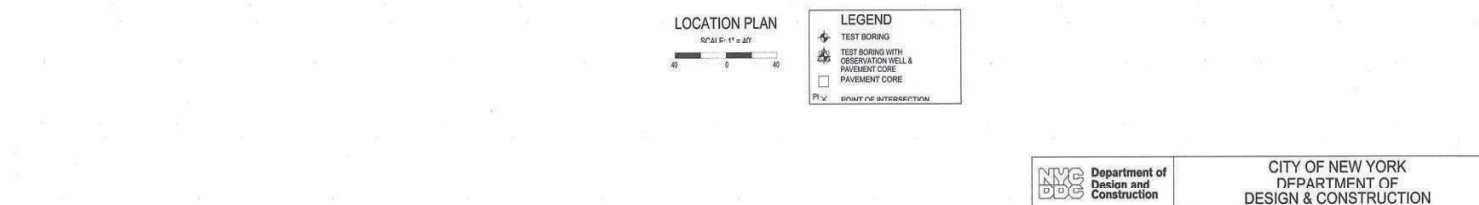
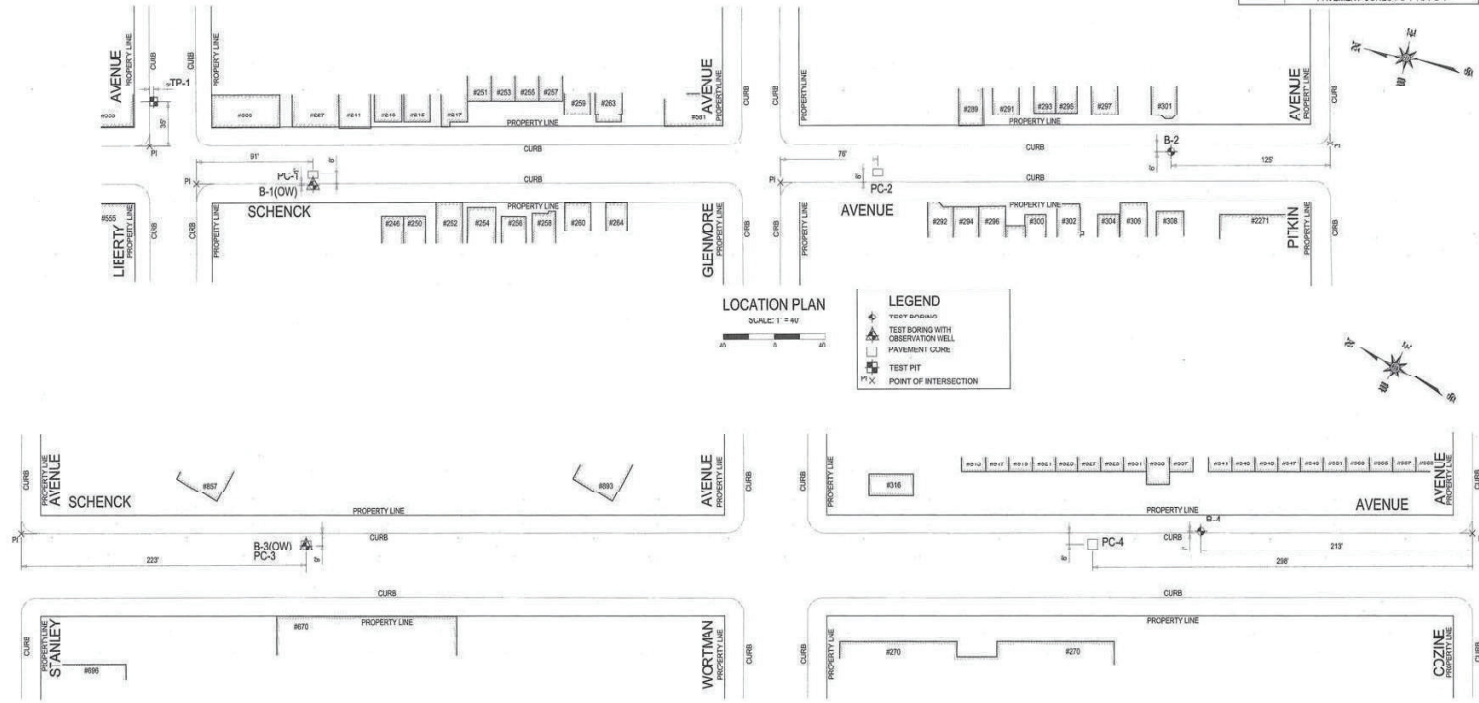
Fresh - No visible sign of rock material weathering.
 Slightly - Discoloration indicates weathering of rock material.
 Moderately - Discoloration and surface weathering may be observed by inflicting and using one or more instruments to determine if a discontinuity has formed.
 Completely (Comp) - All rock material is decomposed and/or disintegrated to a soil. The original mass structure is still largely intact.
 Highly - More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or decomposed rock is present either as a discontinuous fragment or as secondary quarry - like material.
 Very - More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or decomposed rock is present either as a discontinuous fragment or as secondary quarry - like material.
 Completely (Comp) - All rock material is decomposed and/or disintegrated to a soil. The original mass structure is still largely intact.

GENERAL NOTES:

- Soils tested with organic content greater than 12 percent is classified as organic (SO, or OH). Soil with less than 12 percent is classified as inorganic (SW, SM, SC, GP, GM, GW, ML, CL, CH, OL, PT).
- When laboratory results are not available, the group symbols are assigned based on the SUC or observation method.
- All borings unless otherwise noted are classified for utilities using the sample and/or vacuum extraction method to test below ground.
- Any of the fine grain soils are less than 10 percent by weight the sand or the grain size is not included in the sample ground, then report as sand.
- Any of the fine grain soils are less than 10 percent by weight but the summation of the two or greater than 10 percent, then report as sand.



BORING LEGEND

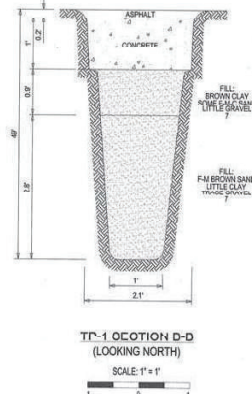
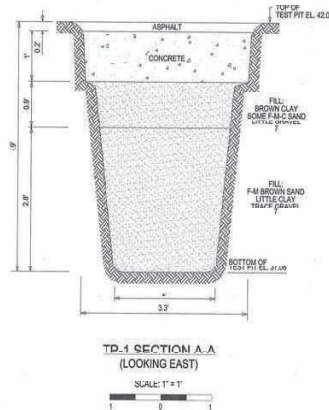
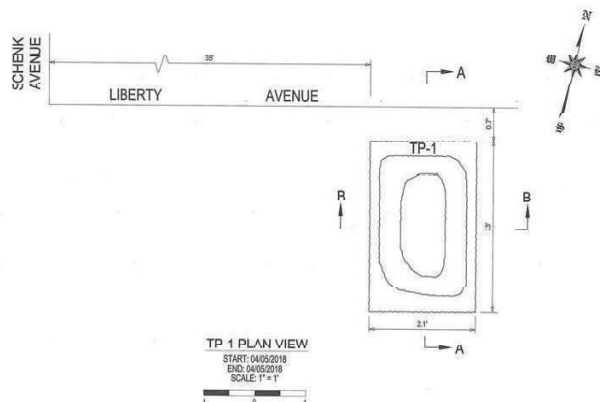
B-S (OW)
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1. SURVEY PLAN WAS PREPARED BY B. THAYER ASSOCIATES, 99 SUNNY SIDE BOULEVARD, WOODBURY, NY 11797 DATED JUNE 2, 2017.

[illegible]

 Department of Design and Construction	CITY OF NEW YORK DEPARTMENT OF DESIGN & CONSTRUCTION
HWK/9/W  4242	DIVISION OF PROGRAM MANAGEMENT SAFETY AND SITE SUPPORT OFFICE OF ENVIRONMENTAL AND GEOTECHNICAL SERVICES
CONSULTANT NAME: ODM SMITH I 14 WALL STREET, SUITE 1702 NEW YORK, NEW YORK 10005	CONTRACTOR NAME: AQUICR DRILLING & TESTING, INC. 75 EAST 2ND STREET MINNEOLA, NEW YORK 11501
PROJECT NAME:	
RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE BETWEEN LIBERTY AVENUE & COZZINE AVENUE BOROUGH OF BROOKLYN RECORD OF BORINGS AND TEST PIT	
SEAL & SIGNATURE 	DATE: 10/25/99 PROJECT NO.: HWK79/W DRAWING BY: RON BAROIAN CHK BY: ERALDA ALLAUZE, YOUSOF Q. ABDJAJAL, PH.D., P.E. UTILITY REC: D-101.00 (NO FILE IN "RECORDS" FOLDER)
5	SHEET 102/1



NOTE:
THE INTENT OF THE TEST PIT WAS TO FIND POSSIBLE TROLLEY TRACKS; HOWEVER,
NO TRACKS WERE DISCOVERED AT THIS LOCATION.

PAVEMENT CORE DATA*				
LAYER NO.	THICKNESS (IN)	PC-1	PC-2	PC-3
1 (RD SURFACE)	ASPHALT	3"	4"	5"
2	CONCRETE	4"	6"	5"

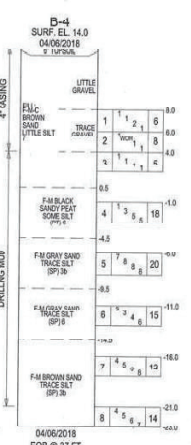
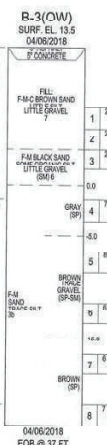
* All Pavement Cores are 4" Diameter unless otherwise noted

LABORATORY ANALYSIS SUMMARY *

Soil Sample Identification And Index Properties

SAMPLE NO.	DEPTH (FT)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	% SAND	% SILT OR CLAY (< #200 SIEVE)	WCL	Cc	Cu	LIQUID LIMIT (%)	PLASTICITY INDEX	PH	ORGANIC CONTENT (%)	USCS SYMBOL
B-1	3	8.10	0.61	0.07	10.0	75.0	3.4	4.3	0.81	4.23	-	-	-	SP-SM
B-1	8	35.37	1.89	0.48	0.09	28.8	82.2	0.0	10.4	1.35	21.14	-	-	SP-SM
B-3	4	12.17	0.03	0.10	-	0.0	00.4	14.0	10.0	-	-	-	-	SM
B-2	7	30.32	4.32	0.45	0.12	39.2	53.0	7.8	9.9	0.39	38.20	-	-	SP-SM
B-3	9	10.42	0.20	0.10	-	10.0	28.1	44.0	4.1	-	NP	NP	-	SM
B-3	5	20.22	0.32	0.18	0.09	0.3	53.4	6.3	28.0	0.91	3.74	-	-	SP-SM
B-1	4	12.17	0.03	0.10	-	0.0	70.1	22.0	20.0	-	-	-	-	PT
B-4	6	25.27	0.23	0.10	0.11	0.0	86.9	3.1	28.5	1.04	2.57	-	-	SP

* Refer to detailed laboratory analysis data for additional information regarding the results presented herein.



TIP OF 2"-DIA OBSERVATION WELL AT ELEVATION 5.5

GROUNDWATER READINGS

DATE	TIME	DEPTH (FT)	ELEVATION (FT)
04/05/18	1:00 PM	26.3	11.2
04/05/18	2:00 PM	26.3	11.2
04/05/18	1:15 PM	26.3	11.2
04/05/18	1:30 PM	26.2	11.3
04/05/18	1:00 PM	26.2	11.3

TIP OF 2"-DIA OBSERVATION WELL AT ELEVATION -21.5

GROUNDWATER READINGS

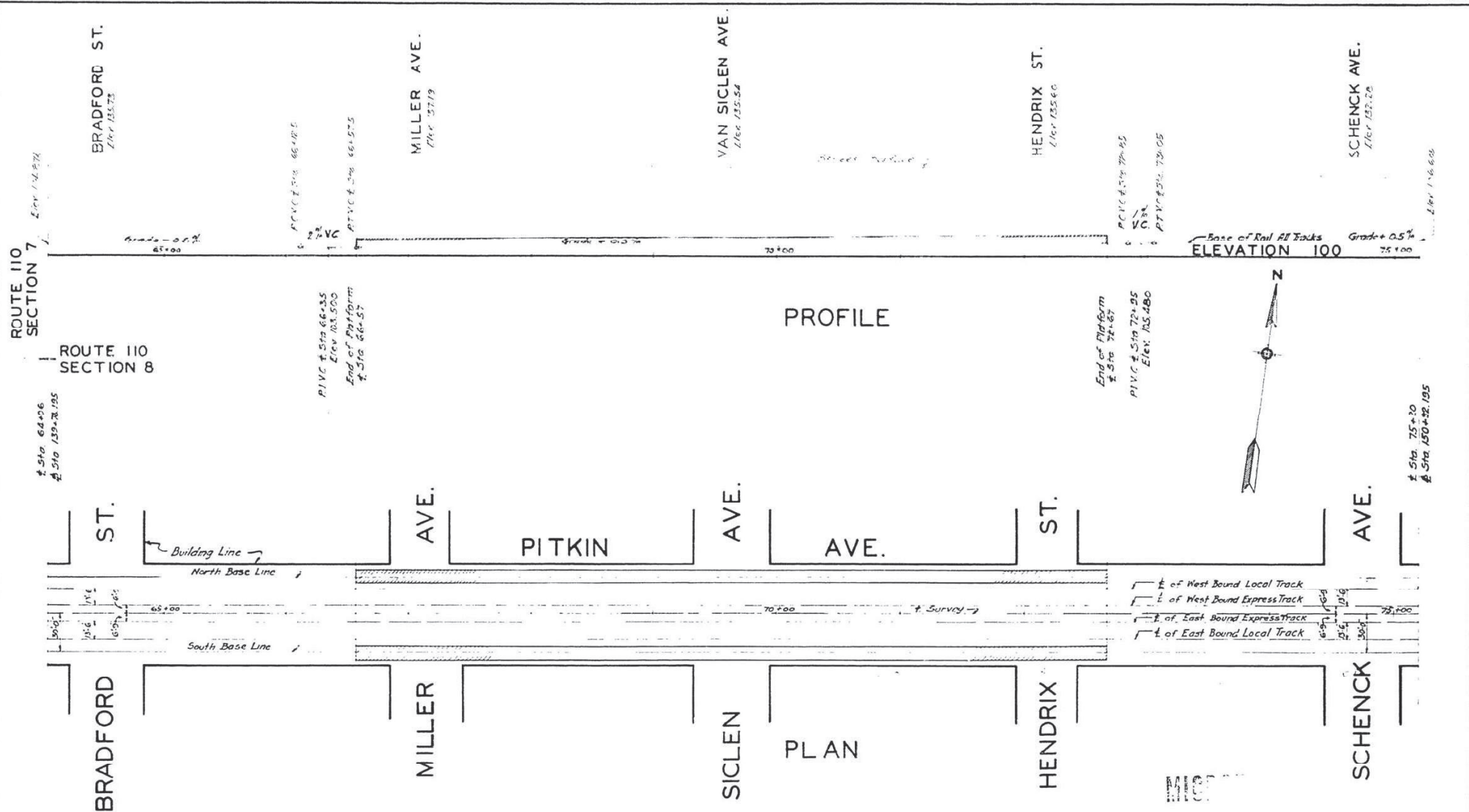
DATE	TIME	DEPTH (FT)	ELEVATION (FT)
04/05/18	1:30 PM	15.5	3.0
04/05/18	1:30 PM	15.5	3.0
04/05/18	1:30 PM	15.5	3.0

 Department of Design and Construction HWK797W 4242	CITY OF NEW YORK DEPARTMENT OF DESIGN & CONSTRUCTION PREPARED FOR: DIVISION OF PROGRAM MANAGEMENT SAFETY AND SITE SUPPORT OFFICE OF ENVIRONMENTAL AND GEOTECHNICAL SERVICES
	CONTRACTOR NAME: CDM SMITH 14 WALL STREET, SUITE 1700 NEW YORK, NEW YORK 10005
	PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE BETWEEN LIBERTY AVENUE & COZINE AVENUE BOROUGH OF BROOKLYN
	RECORD OF BORINGS & TEST PIT SEAL & SIGNATURE: [Signature] DATE: MAY 23, 2018 PROJECT NO: HWK797W DRAWING BY: RON BARDHAN CHK BY: ERALDA ALLUABE, YOUSOF Q. ABDALLAH, PH.D., P.E. DWG No: B-102.00 CADD FILE No: 4242-R08-01

DANIEL MACCO SOIL AND ROCK ANALYSIS BY	WAFIA FATHALLAH, P.E. GEOTECHNICAL ENGINEER CDM SMITH	RICHARD G. MESEROLE SECTION CHIEF CDM	GEOTECHNICAL ENGINEER CDM	JEAN M. JEAN-LOUIS ASSISTANT COMMISSIONER DIVISION OF PROGRAM MANAGEMENT SAFETY AND SITE SUPPORT
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INTERIOR COLUMN FOOTINGS

Mark	W	D	Base Slob
F1	3'-3"	0	16"x1½"x1'-5" long
F2	3'-6"	0	16"x1½"x1'-6" long
F3	3'-9"	0	16"x1½"x1'-7" long
F4	4'-0"	4"	16"x1½"x1'-8" long

Lengths From center to center of Base

SIDEWALL COLUMN CANTILEVER FOOTINGS

MARK	Grillage Beam		Plate 'O'	2 Plates 'I'		2 Angles 'K'		4 Angles 'L'		Total Rivets
	Section	Length	Size	Size	Rivets Per Ft	Size	Rivets to Beam	Size	Web LEO	
F5	12 1/2"	1'-6"	8 x 8	3 x 3/4	3	4 x 4 1/2	3	6 x 6 1/2	6	12
F6	12 1/2"	1'-0"	8 x 8	3 x 3/4	3	4 x 4 1/2	3	6 x 6 1/2	6	12
F7	12 1/2"	1'-9"	8 x 8	3 x 3/4	3	4 x 4 1/2	3	6 x 6 1/2	6	12
F8	12 1/4"	2'-0"	8 x 8	3 x 3/4	3	4 x 4 1/2	3	6 x 6 1/2	6	12
F9	12 1/2"	2'-0"	8 x 8	3 x 3/4	3	4 x 4 1/2	3	6 x 6 1/2	6	12

NOTE
All rivets $\frac{7}{8}$ " shop. In $6 \times 4 \times \frac{7}{8}$ Ls
use 6 rivets to column web and a
total of 6 rivets to flange of beam

NOTE
This drawing has been revised for record
to conform with actual construction in the
field as per list on file dated Nov. 2, 1966

CROSS REFERENCES

For Alignment & Grades	See Dwg. Nos. 302 & 303	File No. 6808
* Typical Arch Details	" " " 304 & 305	" " "
* General Notes & Unit Stresses	" " " 308	" " "
* Sections A-A, B-B, C-C & D-D	" " " 344	" " "
* Drainage see Drainage Dwg.		
* Sewers see Sewer Dwg.		

BOARD OF TRANSPORTATION
OF THE CITY OF NEW YORK
ENGINEERING BUREAU
ROUTE NO. 110 SECTION NO. 9
PITKIN AVE. BROOKLYN
AT SCHENCK AVE.
SUB-SECTION NO. 4
STRUCTURAL PLANS
ROOF PLAN.

Scale 1" = 10'-0"
Date June 7, 1939

8
C Rodenburg
Acting Division Engineer

File No. 6808
Dwg. No. 343

PROJECT ID: HWK797W
FEDERAL AID NO: X772.78

NYCT 2
SHEET 67 OF 68

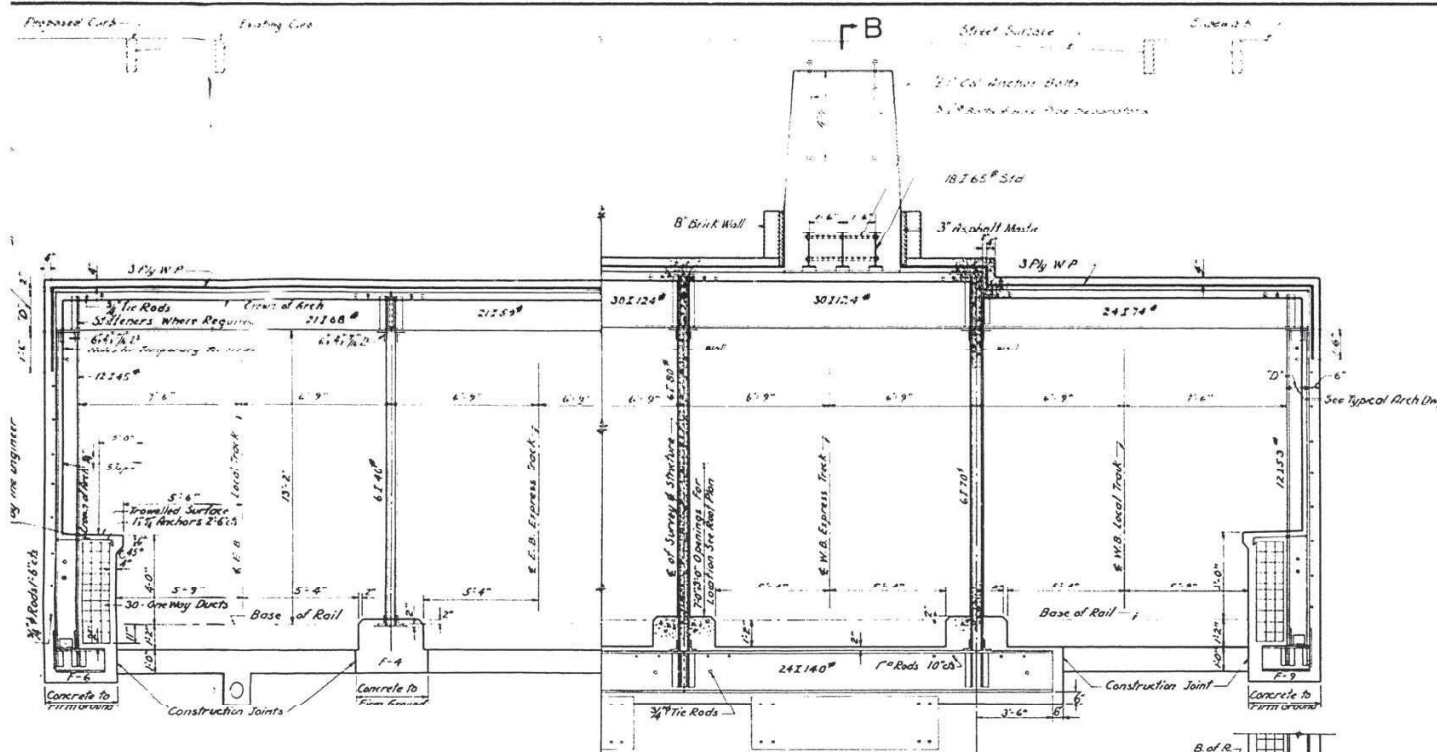
1999 CAPITAL BUDGET PROJECT T10

Record Room

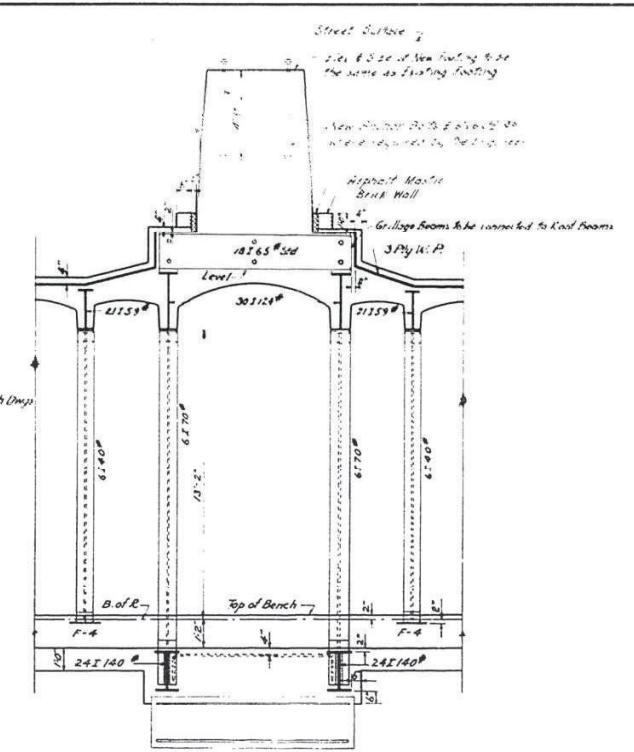
by S. Ryder
R. W. Fagan
by H. B. Smith
in Charge B. Salmon
Chief White Engineer

F2

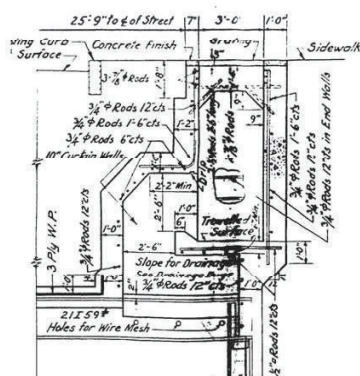
Record Room



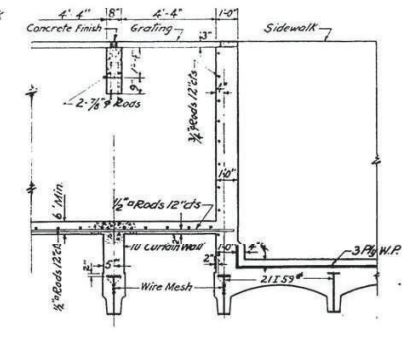
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

SIDEWALL COLUMN FOOTING WITHOUT GRILLAGE

- CROSS REFERENCES
- | | |
|---------------------------------|--|
| For Alignment & Grades | See Drawings No. 302 & 303 File No. 6808 |
| • Typical Arch Details | • " 304 & 305 " " " |
| • General Notes & Unit Stresses | • " " 306 " " " |
| • Roof Plan | • " " 343 " " " |
| • Drainage | • " " Drainage Drawings |

PROJECT ID: HWK797W
FEDERAL AID NO. X772.78
NYCT 3
SHEET 68 OF 68

Scale 3/8" = 1'-0"
Date June 7, 1939

C. Robinson
Acting Division Engineer

1939 CAPITAL BUDGET PROJECT T10

BOARD OF TRANSPORTATION
OF THE CITY OF NEW YORK
ENGINEERING BUREAU
ROUTE NO. 110 SECTION NO. 8
PITKIN AVE. BROOKLYN
AT SCHENCK AVE.
SUB-SECTION NO. 4
STRUCTURAL PLANS
SECTIONS A-A, B-B, C-C & D-D
File No. 6808
Dwg. No. 344

J. Robinson
Chief Engineer

F2

Record

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE


ADDENDA CONTROL SHEET

BID SUBMISSION DATE/ TIME: March 15, 2022; between 8:30 AM and 11:00 AM

BID OPENING DATE/ TIME: March 15, 2022; 11:30 AM

PROJECT No. : HWK797W

TITLE: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK
AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY
STREET

ADDENDA ISSUED	NO. OF DWG	DATE	APPROVED BY:	
			SPECS UNIT	GENERAL COUNSEL
#1 Questions from Bidders and Responses to Questions; Revisions to PASSPort Forms; Revisions to Documents	2	3/2/2022		
#2 Revised Bid Opening Date (3/15/2022).		3/7/2022		
#3 Questions from Bidders and Responses to Questions; Revisions to PASSPort Forms; Revisions to Documents	5	3/9/2022		
#4 Questions from Bidders and Responses to Questions; Revisions to Documents.		3/10/2022	 3/10/2022	

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE

3/10/2022

ADDENDUM No. # 4

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

85021B0162- HWK797W

RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

This addendum is issued for the purpose of amending the requirements of the Bid and Contract Documents and is hereby made a part of said Bid and Contract Documents to the same extent as though it were originally included therein.

The bidder is advised that the items listed below apply to the project:

1. **Bidders Questions and Responses to Questions:**
Attachment A is included with this Addendum.
2. **Revisions to Documents:**
Attachment B is included with this Addendum.
3. **Revisions to PASSPort forms:**
No Attachment C is included with this Addendum.

Transferring Data Between Rounds of an RFX: A new document titled "Transferring Data Between Rounds of an RFX" has been added to the Documents section of the View RFX tab. Please refer to this document when an addendum has been issued. Note: Whenever an addendum is issued, the RFX item grid will be cleared. You can import the work you have already done by following the steps on this document.

DDC strongly advises vendors to finalize and submit bids 48 hours prior to due date and time. The City is not responsible for technical issues (e.g. internet connection, power outages, technology malfunction, computer errors, etc.) related to bid submissions.

If additional information is required, please contact the Department of Design and Construction, Contract Section at (718) 391-1041 or by email at CSB_projectinquiries@ddc.nyc.gov.

Richard Jones, PE CWI CDT
Executive Director, Specifications

DDC PROJECT #: HWK797W

**PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM
LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE
AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

ATTACHMENT A - BIDDERS QUESTIONS AND DDC RESPONSES

No.	Bidders Questions	DDC Responses
1	Can you please send plan holders list for this project?	Please refer to ATTACHMENT B here in this Addendum.

DDC PROJECT #: HWK797W

**PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM
LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE
AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

ATTACHMENT B – REVISIONS TO THE DOCUMENTS

Plan Holder's List added.

DDC PROJECT #: HWK797W

PROJECT NAME: RECONSTRUCTION OF SCHENCK AVENUE SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

ATTACHMENT C – REVISIONS TO PASSPORT FORMS

This Addendum is included within Round 3 of the procurement.

Please note that numbering of addenda is independent of rounds.

Questionnaire Changes:

None.

Item Grid Changes:

None.

VOLUME 3 OF 3

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>	<u>PAGES</u>
SPECIFICATIONS AND STANDARDS OF NEW YORK CITY		1 OF 2 AND 2 OF 2
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TF – PAGES	TIGER/FHWA FUNDED PROJECTS TIGER/FHWA FUNDING ATTACHMENTS	TF-1 to TF-J2
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(NO TEXT ON THIS PAGE)

SPECIFICATIONS AND STANDARDS OF NEW YORK CITY

a- The following New York City Department of Transportation (NYCDOT) reference documents are available online at: <http://www1.nyc.gov/site/ddc/resources/publications.page> and <https://www1.nyc.gov/html/dot/html/about/dotlibrary.shtml#spec> or for purchase between 9:00 A.M. and 3:00 P.M.

Bid Window, at 55 Water St., Ground Floor, NYC, N.Y. 10041. Tel. (212) 839-9435.

1. NYCDOT Standard Highway Specifications, August 1, 2015
2. NYC DOT Standard Details of Construction, July 2010 (Revised March 15, 2016)
3. NYCDOT Division of Street Lighting Specifications
4. NYCDOT Division of Street Lighting Standard Drawings
5. NYCDOT Standard Specifications for Traffic Signals
6. NYCDOT Standard Drawings for Traffic Signals

b- The 2010 Americans with Disabilities Act (ADA) Standards; available online at:

<https://www.ada.gov/regs2010/2010ADASTandards/2010ADASTandards.htm>

c- The 2013 Public Rights-of-Way Accessibility Guidelines (PROWAG); available online at:

<https://www.access-board.gov/files/prowag/PROW-SUP-SNPRM-2013.pdf>

d- The following reference documents for New York City Department of Environmental Protection (NYCDEP) are available online at: <http://www1.nyc.gov/site/ddc/resources/publications.page> or for pick up by calling (718) 391-1041 between 8:00 A.M. and 4:00 P.M. at 30-30 Thomson Avenue, 3rd Floor, Division of Infrastructure, Long Island City, N.Y. 11101.

1. NYCDEP Standard Sewer and Water Main Specifications, July 1, 2014
2. NYCDEP Instructions for Concrete Specifications, Jan. 92
3. NYCDEP General Specification 11-Concrete, November 1991
4. NYCDEP Sewer Design Standards, (September 2007) Revised January 2009
5. NYCDEP Water Main Standard Drawings, November 2010
6. Specifications for Trunk Main Work, July 2014
7. Standard Green Infrastructure Specifications September 1, 2021
8. Water main work material specifications are available from the Department of Design and Construction, contact: Mr. Richard Jones, P.E., Tel. (718) 391-1417, E-mail: jonesri@ddc.nyc.gov

e- Standard Design and Guidelines for Green Infrastructure Practices, latest version, available only online at:

<https://www1.nyc.gov/assets/dep/downloads/pdf/water/stormwater/green-infrastructure/green-infrastructure-standard-designs.pdf>

f- Standard Specifications and Drawings for New York City Fire Department Communications facilities of New York City are available online at <https://www1.nyc.gov/assets/fdny/downloads/pdf/about/fdny-plant-operations-standard-drawings-specifications.pdf> or for pick up from the FDNY Facilities Management Bureau, Plant Operations Engineering, 316 Sgt. Beers Avenue Cluster 1 Box 16, Fort Totten, N.Y. 11359.

Contact: Mr. Ed Durkin, Tel. (718) 281-3933

g- Tree Planting Standards of the City of New York Parks & Recreation are available at the following Department of Parks & Recreation website: <http://www.nycgovparks.org/pagefiles/53/Tree-Planting-Standards.pdf>

SPECIFICATIONS AND STANDARDS OF PRIVATE UTILITIES

Private Utility (CET) Work reference document "CET SPECIFICATIONS AND SKETCHES dated November 2010" is available for pick up by calling (718) 391-2085 for appointment between 8:30 A.M. and 4:00 P.M. at 30-30 Thomson Avenue, First Floor Bid Procurement Room, L.I.C., N.Y. 11101.

SCHEDULE A**(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT
(INCLUDING GENERAL CONDITIONS RELATED TO ARTICLE 22 – INSURANCE)****PART I. REQUIRED INFORMATION**

<p><u>INFORMATION FOR BIDDERS SECTION 26 BID SECURITY</u></p> <p>The Contractor shall obtain a bid security in the amount indicated to the right.</p>	<p>Required provided the TOTAL BID PRICE set forth on the Bid Form is \$1,000,000. or more.</p> <p>Certified Check: 5% of Bid Amount or Bond: 10% of Bid Amount</p>
<p><u>INFORMATION FOR BIDDERS SECTION 26 PERFORMANCE AND PAYMENT BONDS</u></p> <p>The Contractor shall obtain performance and payment bonds in the amount indicated to the right.</p>	<p>Required for contracts in the amount of \$1,000,000 or more.</p> <p>Performance Security and Payment Security shall each be in an amount equal to 100% of the Contract Price.</p>
<p><u>INFORMATION FOR BIDDERS DEPARTMENT OF DESIGN AND CONSTRUCTION SAFETY REQUIREMENTS</u></p> <p>The Contractor shall provide the safety personnel as indicated to the right.</p>	<p><input checked="" type="checkbox"/> Project Safety Representative</p> <p><input type="checkbox"/> Dedicated, full-time Project Safety Representative</p>
<p><u>CONTRACT ARTICLE 14 DATE FOR SUBSTANTIAL COMPLETION</u></p> <p>The Contractor shall substantially complete the Work in the number of calendar days indicated to the right.</p>	<p>See Page SA-4</p>
<p><u>CONTRACT ARTICLE 15 LIQUIDATED DAMAGES</u></p> <p>If the Contractor fails to substantially complete the Work within the time fixed for substantial completion plus authorized time extensions or if the Contractor, in the sole determination of the Commissioner, has abandoned the Work, the Contractor shall pay to the City the amount indicated to the right.</p>	<p><u>\$2,500.00</u> for each consecutive calendar day over substantial completion time</p>
<p><u>CONTRACT ARTICLE 17. SUB-CONTRACTOR</u></p> <p>The Contractor shall not make subcontracts totaling an amount more than the percentage of the total Contract price indicated to the right.</p>	<p>Not to exceed <u>49</u> % of the Contract price</p>

<p align="center"><u>CONTRACT ARTICLE 21.</u> <u>RETAINAGE</u></p> <p>The Commissioner shall deduct and retain until the substantial completion of the Work the percent value of the Work indicated to the right.</p>	<p><u>0</u> % of the value of the Work</p>
<p align="center"><u>CONTRACT ARTICLE 22.</u> <u>(Per Directions Below)</u></p>	<p>See pages SA-5 through SA-12</p>
<p align="center"><u>CONTRACT ARTICLE 24.</u> <u>DEPOSIT GUARANTEE</u></p> <p>As security for the faithful performance of its obligations, the Contractor, upon filing its requisition for payment on Substantial Completion, shall deposit with the Commissioner a sum equal to the percentage of the Contract price indicated to the right.</p>	<p>1% of Contract price</p>
<p align="center"><u>CONTRACT ARTICLE 24.</u> <u>PERIOD OF GUARANTEE</u></p> <p>Periods of maintenance and guarantee other than the period set forth in Article 24.1 are indicated to the right.</p>	<p>Twenty-four (24) Months for Trees and Plants</p>
<p align="center"><u>CONTRACT ARTICLE 75.</u> <u>COMPENSATION TO BE PAID TO CONTRACTOR</u></p> <p>The City shall pay and the Contractor shall accept in full consideration for the performance of the Contract, subject to additions and deductions as provided herein, the total sum shown in the column to the right, being the amount at which the Contract was awarded to the Contractor at a public letting thereof, based upon the Contractor's bid for the Contract.</p>	<p>Amount for which the Contract was Awarded:</p> <p>_____</p> <p>_____ Dollars</p> <p>(\$ _____)</p>
<p align="center"><u>CONTRACT ARTICLE 79.</u> <u>PARTICIPATION BY MINORITY-OWNED AND WOMEN-OWNED BUSINESS ENTERPRISES IN CITY PROCUREMENT</u></p>	<p align="center">EXEMPT</p> <p>FHWA DBE goal of 13%, see page TF-D1 herein this book Volume 3 of 3</p>

<p align="center"><u>STANDARD HIGHWAY SPECIFICATIONS</u> <u>SECTION 6.40</u> <u>LIQUIDATED DAMAGES FOR ENGINEER'S FIELD OFFICE</u></p> <p>If the Contractor fails to satisfactorily provide the field office and all equipment specified in Section 6.40 - Engineer's Field Office, and/or if a cited deficiency exceed seventy two (72) hours after notice from the Engineer in writing, or is permitted to recur, liquidated damages will be assessed in the amount specified herein for each subsequent calendar day or part thereof that a cited deficiency resulting in nonpayment, as described in Section 6.40.5, is not corrected.</p>	<p>\$ <u>500.00</u> for each calendar day of deficiency</p>
<p align="center"><u>STANDARD HIGHWAY SPECIFICATIONS</u> <u>SECTION 6.70</u> <u>LIQUIDATED DAMAGES FOR MAINTENANCE AND PROTECTION OF TRAFFIC</u></p>	<p>\$ <u>250.00</u> for each instance of failure to comply with the Maintenance and Protection of Traffic requirements within three (3) hours after written notice from the Engineer.</p> <p>\$ <u>500.00</u> for each and every hour of failing to open the entire width of roadway to traffic the morning following a night/weekend work operation.</p>
<p align="center"><u>STANDARD HIGHWAY SPECIFICATIONS</u> <u>SECTION 7.13</u> <u>LIQUIDATED DAMAGES FOR MAINTENANCE OF SITE</u></p> <p>If the Contractor fails to comply, within three (3) consecutive hours after written notice from the Engineer, with the requirements of Section 7.13 - Maintenance of Site, the Contractor shall pay to the City of New York, until such notice has been complied with or rescinded, the sum specified above per calendar day, for each instance of such failure, as liquidated damages and not as a penalty, for such default.</p>	<p>\$ <u>500.00</u> for each calendar day, for each occurrence</p>

Date for Substantial Completion (Reference: Article 14)

The Contractor shall substantially complete the Work within the Final Contract Duration determined in accordance with the terms and conditions set forth herein.

The Base Contract Duration for this project is 730 consecutive calendar days ("ccds").

The Final Contract Duration shall be the Base Contract Duration when a check mark is indicated before the word "NO", below, and shall be the Base Contract Duration adjusted by the table set forth below when a check mark is indicated before the word "YES", below.

✓ YES NO

When the Final Contract Duration is indicated above to be adjusted by the table below, the table may increase the Base Contract Duration depending on the date of scheduled substantial completion to avoid a scheduled substantial completion of the Work during the winter months. The date of scheduled substantial completion shall be determined by adding the Base Contract Duration to the date specified to commence work in the written Notice to Proceed. The Final Contract Duration shall then be determined as follows:

- (a) Find the row that corresponds to the month of substantial completion based on the Base Contract Duration added to the date specified to commence work in the written Notice to Proceed.
- (b) Find the number of days to be added to the Base Contract Duration in the table below. Add that number of days to the Base Contract Duration to obtain the Final Contract Duration in consecutive calendar days.

Month of Substantial Completion based on the Base Contract Duration	Number of Days of adjustment
January	150
February	120
March	90
April	60
May	30
June	0
July	0
August	0
September	0
October	0
November –December 15	0
December 16 – December 31	180

In addition, should Item No. 9.30, "Storm Water Pollution Prevention," exist in the Contract and the required Storm Water Pollution Prevention Plan (SWPPP) does not conform to NYSDEC's recommended Standards, an additional 60 ccd shall be added to the above Final Contract Duration.

(GENERAL CONDITIONS RELATING TO ARTICLE 22 – INSURANCE)**PART II. TYPES OF INSURANCE, MINIMUM LIMITS AND SPECIAL CONDITIONS**

Note: All certificate(s) of insurance submitted pursuant to Contract Article 22.3. 3 must be accompanied by a Certification by Broker consistent with Part III below and include the following information:

- For each insurance policy, the name and NAIC number of issuing company, number of policy, and effective dates;
- Policy limits consistent with the requirements listed below;
- Additional insureds or loss payees consistent with the requirements listed below; and
- The number assigned to the Contract by the City (in the “Description of Operations” field).

Insurance indicated by a blackened box (■) or by X in a ☐ to left will be required under this contract

Types of Insurance (per Article 22 in its entirety, including listed paragraph)	Minimum Limits and Special Conditions
--	---------------------------------------

<p>■ Commercial General Liability Art. 22.1.1</p>	<p>The minimum limits shall be \$ <u>3,000,000</u> per occurrence and \$ <u>6,000,000</u> per project aggregate applicable to this Contract.</p> <p>Additional Insureds:</p> <ol style="list-style-type: none"> 1. City of New York, including its officials and employees, with coverage at least as broad as ISO Form CG 20 10 and CG 20 37, 2. All person(s) or organization(s), if any, that Article 22.1.1(b) of the Contract requires to be named as Additional Insured(s), with coverage at least as broad as ISO Form CG 20 26. The Additional Insured endorsement shall either specify the entity's name, if known, or the entity's title (e.g., Project Manager), 3. New York State, including its officials and employees, 4. Federal Highway Administration (FHWA), its officials and employees. 5. The New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit Operation Authority (MaBSTOA), Staten Island Rapid Transit Operation Authority (SIRTOA), Metropolitan Transportation Authority (MTA), its subsidiaries and affiliated companies. The Contractor shall furnish two (2) certificates of insurance to and the policy shall be endorsed to provide thirty (30) days advance notice to the Director, Risk Management, MTA Risk and Insurance Management Standards, Enforcement and Claims Unit, 2 Broadway, 2151 Floor, New York, NY 10004, of any material change and/or cancellation
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<div> <div> <div>■ Workers' Compensation</div> <div>Art. 22.1.2</div> </div> <div> <div>■ Disability Benefits Insurance</div> <div>Art. 22.1.2</div> </div> <div> <div>■ Employers' Liability</div> <div>Art. 22.1.2</div> </div> <div> <div><input type="checkbox"/> Jones Act</div> <div>Art. 22.1.3</div> </div> <div> <div><input type="checkbox"/> U.S. Longshoremen's and Harbor Workers Compensation Act</div> <div>Art. 22.1.3</div> </div> </div>	<p>Workers' Compensation, Employers' Liability, and Disability Benefits Insurance: Statutory per New York State law without regard to jurisdiction.</p> <p>Note: The following forms are acceptable: (1) New York State Workers' Compensation Board Form No. C-105.2, (2) State Insurance Fund Form No. U-26.3, (3) New York State Workers' Compensation Board Form No. DB-120.1 and (4) Request for WC/DB Exemption Form No. CE-200. The City will not accept an ACORD form as proof of Workers' Compensation or Disability Insurance.</p> <p>Jones Act and U.S. Longshoremen's and Harbor Workers' Compensation Act: Statutory per U.S. Law.</p> <p><input type="checkbox"/> Additional Requirements:</p>
<div> <div><input type="checkbox"/> Builders' Risk</div> <div>Art. 22.1.4</div> </div>	<p><input type="checkbox"/> Required: 100% of total bid amount</p> <p><input type="checkbox"/> Required: 100 % of total bid amount for Item(s):</p> <p>Contractor the Named Insured; the City both an Additional Insured and one of the loss payees as its interests may appear.</p> <p>If the Work does not involve construction of a new building or gut renovation work, the Contractor may provide an installation floater in lieu of Builders Risk insurance.</p> <p>Note: Builders Risk Insurance may terminate upon Substantial Completion of the Work in its entirety.</p>

<input checked="" type="checkbox"/> Commercial Auto Liability Art. 22.1.5	<p>\$ <u>2,000,000</u> per accident combined single limit</p> <p>If vehicles are used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90</p> <p>Additional Insureds:</p>
<input type="checkbox"/> Contractors Pollution Liability Art. 22.1.6	<p>\$ <u>5,000,000</u> per occurrence \$ <u>5,000,000</u> aggregate</p> <p>Additional Insureds:</p> <ol style="list-style-type: none"> 1. City of New York, including its officials and employees, and 2. _____ 3. _____
<input type="checkbox"/> Marine Protection and Indemnity Art. 22.1.7(a)	<p>\$ _____ each occurrence \$ _____ aggregate</p> <p>Additional Insureds:</p> <ol style="list-style-type: none"> 1. City of New York, including its officials and employees, and 2. _____ 3. _____
<input type="checkbox"/> Hull and Machinery Insurance Art. 22.1.7(b)	<p>\$ _____ per occurrence \$ _____ aggregate</p> <p>Additional Insureds:</p> <ol style="list-style-type: none"> 1. City of New York, including its officials and employees, and 2. _____ 3. _____

<input type="checkbox"/> Marine Pollution Liability Art. 22.1.7(c)	<p>\$ <u>1,000,000</u> per occurrence</p> <p>\$ <u>1,000,000</u> aggregate</p> <p>Additional Insureds:</p> <p>1. City of New York, including its officials and employees, and</p> <p>2. _____</p> <p>3. _____</p>
<p>[OTHER] Art. 22.1.8</p> <p>■ Railroad Protection Liability Policy</p> <p>(ISO-RIMA or equivalent form) approved by Permitter covering the work to be performed at the designated site and affording protection for damages arising out of bodily injury or death, physical damage to or destruction of property, including damage to the Insured's own property and conforming to the following:</p> <ul style="list-style-type: none"> • Policy Endorsement CG 28 31 - Pollution Exclusion Amendment is required to be endorsed onto the policy when environmental-related work and/or exposures exist. • Indicate the Name and address of the Contractor to perform the work, the Contract # and the name of the railroad property where the work is being performed and the Agency Permit. • Evidence of Railroad Protective Liability Insurance, must be provided in the form of the <u>Original Policy. A detailed Insurance Binder (ACORD or Manuscript Form) will be accepted pending issuance of the Original Policy, which must be provided within 30 days of the Binder Approval.</u> 	<p>\$ <u>2,000,000</u> per occurrence</p> <p>\$ <u>6,000,000</u> annual aggregate</p> <p>Named Insureds:</p> <p>1. New York City Transit Authority (NYCTA), the Manhattan and Bronx Surface Transit Operation Authority (MaBSTOA), the Staten Island Rapid Transit Operation Authority (SIRTOA), MTA Capital Construction Co., the Metropolitan Transportation Authority (MTA) including its subsidiaries and affiliates, and the City of New York (as Owner) and all other indemnified parties.</p> <p>2. The AMTRAK, its subsidiaries and affiliated companies.</p>

<p>[OTHER] Art. 22.1.8</p> <p>■ Professional Liability</p> <p>A. The Contractor's Professional Engineer shall maintain and submit evidence of Professional Liability Insurance in the minimum amount of \$1,000,000 per claim. The policy or policies shall include an endorsement to cover the liability assumed by the Contractor under this Contract arising out of the negligent performance of professional services or caused by an error, omission or negligent act of the Contractor's Professional Engineer or anyone employed by the Contractor's Professional Engineer.</p> <p>B. Claims-made policies will be accepted for Professional Liability Insurance. All such policies shall have an extended reporting period option or automatic coverage of not less than two (2) years. If available as an option, the Contractor's Professional Engineer shall purchase extended reporting period coverage effective on cancellation or termination of such insurance unless a new policy is secured with a retroactive date, including at least the last policy year.</p>	
<p>[OTHER] Art. 22.1.8</p> <p>■ Engineer's Field Office</p> <p>Section 6.40, Standard Highway Specifications</p>	<p>Fire insurance, extended coverage and vandalism, malicious mischief and burglary, and theft insurance coverage in the amount of <u>\$40,000</u></p>
<p>[OTHER] Art. 22.1.8</p> <p><input type="checkbox"/> The Following Additional Insurance Must Be Provided:</p> <p>Umbrella/Excess Liability Insurance - The Contractor shall provide Umbrella/Excess Liability Insurance in the minimum amount of \$10,000,000 per Occurrence and \$10,000,000 in Aggregate. The policy terms and condition should be at least as broad as the underlying policies. The underlying policies should comply with the insurance provision as outlined by the contract. Defense cost should be in addition to the limit of liability. The City of New York, including its officials and employees, should be included as additional insured as respects to the noted project.</p>	

Per **Article 22.2.5** of the **Standard Construction Contract**: The Contractor may satisfy its insurance obligations as defined in this Schedule A through primary policies or a combination of primary and excess/umbrella policies, so long as all policies provide the scope of coverage required herein.

SCHEDULE A
(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)
(GENERAL CONDITIONS RELATING TO ARTICLE 22 – INSURANCE)

PART III. CERTIFICATES OF INSURANCE

All certificates of insurance (except certificates of insurance solely evidencing Workers' Compensation Insurance, Employer's Liability Insurance, and/or Disability Benefits Insurance) must be accompanied by one of the following:

- (1) the Certification by Insurance Broker or Agent on the following page setting forth the required information and signatures;

-- OR --

- (2) copies of all policies as certified by an authorized representative of the issuing insurance carrier that are referenced in such certificate of insurance. If any policy is not available at the time of submission, certified binders may be submitted until such time as the policy is available, at which time a certified copy of the policy shall be submitted.

CITY OF NEW YORK

CERTIFICATION BY INSURANCE BROKER OR AGENT

The undersigned insurance broker represents to the City of New York that the attached Certificate of Insurance is accurate in all material respects.

[Name of broker or agent (typewritten)]

[Address of broker or agent (typewritten)]

[Email address of broker or agent (typewritten)]

[Phone number/Fax number of broker or agent (typewritten)]

[Signature of authorized official, broker, or agent]

[Name and title of authorized official, broker, or agent (typewritten)]

State of)
County of) ss.:
County of)

Sworn to before me this _____ day of _____, 20_____

NOTARY PUBLIC FOR THE STATE OF _____

SCHEDULE A

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

PART IV. ADDRESS OF COMMISSIONER

Wherever reference is made in Article 7 or Article 22 to documents to be sent to the **Commissioner** (e.g., notices, filings, or submissions), such documents shall be sent to the address set forth below or, in the absence of such address, to the **Commissioner's** address as provided elsewhere in this **Contract**.

DDC Director, Insurance Risk Manager

30 – 30 Thomson Avenue, 4th Floor (IDCNY Building)

Long Island City, NY 11101

(NO FURTHER TEXT ON THIS PAGE)

C. DRAWINGS

Contract Drawings

DRAWING NO.	DESCRIPTION
TL	TITLE SHEET
TC1	TABLE OF CONTENTS AND LIST OF STANDARD DRAWINGS
LEG	LEGEND AND ABBREVIATIONS
GEN1-2	GENERAL NOTES
GEN3	NEW YORK CITY TRANSIT GENERAL NOTES
SCI-2	SURVEY CONTROL
DET1-2	TYPICAL ROADWAY SECTIONS AND DETAILS
C1-4	ROADWAY CONSTRUCTION PLANS
C5	ROADWAY RESURFACING PLAN - 1
P1-5	ROADWAY PROFILES
UI-7	UTILITY PLAN AND PROFILE
PM1-4	PAVEMENT MARKING PLANS
PRT1	PEDESTRIAN CURB RAMP SUMMARY TABLE
TS1-5	TRAFFIC SIGNAL PLANS
SL1-6	STREET LIGHTING PLANS
TM1-3	TREE MITIGATION PLANS
TM4-5	TREE MITIGATION DETAILS
TTR1	TROLLEY TRACK, REMOVAL PLAN AND DETAIL
FD1-2	FDNY STD DRAWING 145L AND 145Y
F03	STANDARD DRAWING 141 FIRE ALARM POST SETTING
F04	STANDARD DRAWING 168 FIRE ALARM PEDESTAL BUMPERS
MPTI-11	MAINTENANCE AND PROTECTION OF TRAFFIC PLANS
RB1-2	RECORD OF BORINGS
FDS-7	FIRE DEPARTMENT FACILITY RELOCATION WORK WITH TERMINATION DIAGRAMS
NYCT1-3	AS BUILT DRAWINGS NEW YORK CITY TRANSIT

Standard Drawings

DRAWING NO.	DESCRIPTION
E0-13147-B-1	REMOVABLE CURB /SIDEWALK PANEL FOR ACCESS TO MANHOLE OPENINGS
H-1004	TYPICAL TEMPORARY PEDESTRIAN PASSAGEWAY IN ROADWAY DURING CONSTRUCTION
H-1009	CHAIN LINK FENCE DETAILS TENSION WIRES TOP AND / OR BOTTOM
H-1010	STEEL FACED CURB/STEEL FACING TYPE D
• 608-01	PEDESTRIAN FACILITIES
H-1012	TIMBER CURB
H-1013	ILLUMINATED TIMBER BARRICADE
H-1014	TEMPORARY PEDESTRIAN STEEL BARRICADE
•• 608-03	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS
H-1031	TYPICAL PAVEMENT KEY
H-1034	TYPICAL CONSTRUCTION JOINTS FOR CONCRETE BASE FOR PAVEMENT
H-1035	REINFORCED CONCRETE CURB & DROP CURB
H-1040	TRANSVERSE CONSTRUCTION JOINTS FOR CONCRETE BASE
H-1042 A	STANDARD TRENCH OR HOLE RESTORATION FOR STREETS PROTECTED BY NYC ADMINISTRATION CODE § 19-144
H-1042 C	ROADWAY RESTORATION FOR NEWLY CONSTRUCTED ROADWAYS
H-1044	CONCRETE CURB
H-1045	CONCRETE SIDEWALK
H-1046	STREET TREE PLANTING DETAIL - TYPE I
H-1047	TYPICAL CURB DETAIL AT EXISTING TREES
H-1049	PLASTIC BARREL
H-1050	REINFORCED CONCRETE PAVEMENT CONSTRUCTION DETAIL (4 DWGS)
H-1053	DETAILS FOR CONSTRUCTION AREA OF ADJUSTMENT AND TRANSITION SECTIONS

DRAWING NO.	DESCRIPTION
H-1054	LIMITS OF MEASUREMENT FOR PAYMENT OF TEMPORARY ASPHALT PAVEMENT
H-1055	PAVEMENT KEY TYPE A, B-1, B-2, C
H-1057	TEMPORARY STORAGE AREA
MG-480	TYPICAL CROSSWALK
M608-3	SIDEWALK CURB DETAIL
M608-5	DETECTABLE WARNING DETAIL
TAR-1	TYPICAL PAVEMENT MARKING LANE ARROWS
MS-1003	TYPICAL ROADWAY CROSS-SECTION/RESURFACING
TCW-1	TYPICAL PAVEMENT MARKINGS CROSSWALKS & STOP BARS
TBI-1	TYPICAL TREATMENTS FOR BICYCLE INTERSECTIONS MARKINGS
TIN-1	TYPICAL PAVEMENT MARKINGS INSTALLATION
10241-A-Z	HYDRANT VALVE BOX, CAST IRON
11576-A-Z	FOUNDATIONS FOR VALVE BOXES
19841-Z-B	STANDARD METHODS FOR RECONSTRUCTING CATCH BASIN CONNECTIONS
31050-Z	STANDARD METHODS FOR HYDRANT DRAINAGE
44292-B-Z	GRAVEL OR BROKEN STONE BEDDING AND FILTER FABRIC INSTALLATION FOR DUCTILE CAST IRON PIPES
45161-A-Z	STANDARD STEEL HYDRANT FENDER
SEI	VITRIFIED CLAY PIPE ON CONCRETE CRADLE ON EARTH OR ON ROCK
SE3	STANDARD FOR CIRCULAR REINFORCED CONCRETE PIPE ON CONCRETE CRADLE ON EARTH OR ON ROCK
SE11	TYPE A-1 AND TYPE A-2 MANHOLES ON 8" DIAMETER TO 30" DIAMETER PIPE SEWERS IN DRY LOCATION
SE39	STANDARD FOR 27" DIAMETER CAST IRON MANHOLE FRAME AND COVER (FOR ACCESS OR CLEANOUT)
SE47	TYPE 1 CATCH BASIN (WITH CURB PIECE)
SE64	STANDARD FOR RISER ON PRECAST REINFORCED CONCRETE PIPE SEWERS ON CONCRETE CRADLE

DRAWING NO.	DESCRIPTION
F.D STD DWG.141	MANHOLE CONSTRUCTION. POST SETTING AND SUBSIDIARY CONNECTIONS
F.D STD DWG.168	INSTALLATION OF FIRE ALARM PEDESTAL BUMPERS
GI-103	STANDARD FOR 20'-X5' R.O.W BIOSWALE TYPE 1A- WITH STONE COLUMNS
GI-104	STANDARD FOR 20'X5' R.O.W BIOSWALE TYPE 1A- WITH STONE COLUMNS
GI-107	STANDARD FOR 20'X5' R.O.W BIOSWALE TYPE 1C- WITH STORM WATER CHAMBER
GI-108	STANDARD FOR 20'X5' R.O.W. BIOSWALE TYPE 1C- WITH STORM WATER CHAMBER
GI-114	STANDARD FOR 15'X5' R.O.W BIOSWALE TYPE 2B- WITH STORM WATER INLET
GI-115	STANDARD FOR 15'-X5' R.O.W BIOSWALE TYPE 2C- WITH STORM WATER CHAMBER
GI-125	STANDARD FOR HYDRAULICALLY CONNECTED R.O.W.B PERFORATED PIPE
GI-133	STANDARD FOR HYDRAULICALLY CONNECTED R.O.W GREENSTRIPS
NOTES 1. OTHER AGENCY STANDARDS AND REFERENCE DRAWINGS TO BE USED WHERE APPLICABLE	
<p>2. NYCDOT Standard Drawing number H-1011 dated 7/1/10, SIDEWALK PEDESTRIAN RAMPS is no longer to be used for the purpose of determining geometry, dimensions, and tolerances for the construction of sidewalk ramps. NYSDOT Standard Sheet 608-01 (Pedestrian Facilities) must be used for determining geometry, dimensions, and tolerances for the construction of sidewalk ramps, except that Type 8 must not be used. All requirements of the NYCDOT Standard Highway Specifications will still apply; this does not mandate or allow the use of any NYSDOT Standard Specifications as an alternate unless specifically called for in the contract documents. NYSDOT Standard Sheet 608-01 is available at the following link:</p> <p>https://www.dot.ny.gov/main/business-center/engineering/cadd-info/drawings/standard-sheets-us</p>	

REVISIONS TO STANDARD SPECIFICATIONS

NOTICE

The Specification Bulletin(s) ("SB(s)") referenced in this Section (R-Pages) may consist of revisions to the following Standard Specifications:

- New York City Department of Transportation ("NYC DOT") Standard Highway Specifications, dated 8/1/2015;
- New York City Department of Environmental Protection ("NYC DEP") Standard Sewer and Water Main Specifications, dated 7/1/2014; and
- NYC DEP Specifications for Trunk Main Work, dated 7/2014.

The SB(s) modify and supersede portions of the applicable Standard Specifications. The provisions contained in this Contract's I-Pages, S-Pages and SW-Pages may further modify the applicable Standard Specifications.

The following SB(s) are included as part of this contract:

- SB 16-001 – REVISIONS TO THE NYC DOT STANDARD HIGHWAY SPECIFICATIONS.
- SB 16-002 – REVISIONS TO THE NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS.
- SB 17-001 – UV CURED-IN-PLACE-PIPE (CIPP) LINING METHOD
- *SB 17-002 – SUPERSEDED BY SB 18-001*
- SB 17-003 – ENGINEERS FIELD OFFICE
- SB 17-004 – FIRE DEPARTMENT FACILITIES
- SB 17-005 – DIGITAL PHOTOGRAPHS
- SB 17-006 – RECORDS OF SUBSURFACE STRUCTURES
- SB 17-007 – MOBILIZATION
- SB 17-008 – QUALIFICATION CARDS
- SB 17-009 – SALVAGEABLE MATERIALS
- SB 17-010 – MILLED ASPHALTIC CONCRETE AGGREGATE
- *SB 17-011 – SUPERSEDED BY SB 21-004*

- SB 17-012 – TEMPORARY HOUSE CONNECTION MATERIAL
- SB 18-001 – RODENT AND WATERBUG PEST CONTROL
- SB 18-002 – COLOR SURFACE TREATMENT FOR PAVEMENTS
- SB 18-003 – WATER AND SEWER GENERAL PROVISIONS
- SB 18-004 – CUTTING DUCTILE IRON PIPE
- SB 18-005 – STOCKPILES
- SB 19-001 – RESTORATION OF PAVEMENT SURFACE
- SB 19-002 – SCHEDULE OF OPERATIONS
- SB 21-001 – SALVAGEABLE MATERIALS
- SB 21-002 – HYDRANTS
- SB 21-003 – BACK UP ALARMS, MAINTENANCE OF SITE
- SB 21-004 – DETECTABLE WARNING UNITS

The SB(s) are available online at:

<http://www1.nyc.gov/site/ddc/resources/specification-bulletins.page> or for pickup between 8:00 AM and 4:00 PM at 30-30 Thomson Avenue, 3rd Floor, Division of Infrastructure, Long Island City, NY 11101. Contacts:

- Mr. Richard Jones, (718) 391-1417
- Mr. Salman Macktoom, (718) 391-2041

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I - PAGES

NEW SECTIONS

NOTICE

UNLESS OTHERWISE NOTED, ALL SECTIONS, SUBSECTIONS, ARTICLES, OR SUBARTICLES AS REFERRED TO HEREIN WITHIN THESE NEW SECTION SPECIFICATIONS MUST BE THOSE OF THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION'S (NYCDOT'S) CURRENT STANDARD HIGHWAY SPECIFICATIONS WITH CURRENT ADDITIONS, MODIFICATIONS AND REVISIONS TO THE STANDARD HIGHWAY SPECIFICATIONS (R-PAGES).

THE STANDARD HIGHWAY SPECIFICATIONS ARE NOT INCLUDED IN THESE I-PAGES. SEE THE NYCDOT STANDARD HIGHWAY SPECIFICATIONS BOOKS FOR STANDARD SPECIFICATIONS TEXTS.

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SECTION 6.34 A - Temporary Chain Link Fence, 6'-0" High

6.34A.1. DESCRIPTION. Under this section, the Contractor must furnish, erect, maintain, and remove, when directed, each type of Temporary Chain Link Fence as shown on the contract drawings and directed by the Engineer.

6.34A.2. MATERIALS AND METHODS. All materials and methods must be as specified in **Section 6.34** of the Standard Highway Specifications, with the following modifications and additions:

Temporary Chain Link Fence to be furnished under Item No. 6.34 ACT - TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH, must consist of chain link fence fabric, top and bottom tension wires, gates, posts to be embedded in the pavement, and all necessary incidentals in accordance with the contract drawings and the directions of the Engineer.

Temporary Chain Link Fence to be furnished under Item No. 6.34 ACTP - TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH, (WITH TOP AND BOTTOM RAILS AND POSTS MOUNTED ON STEEL PLATES), must consist of chain link fence fabric, top and bottom rails for mounting a decorative mesh (to be furnished under Item No. 9.06 HW), gates, and posts. Posts must be mounted on two (2) feet square steel plates with a vertical pin not less than two (2) feet high welded to the center of the plate, all as approved by the Engineer. The Contractor must also be required to secure the fence with sand bags to hold fence in place, and all necessary incidental in accordance with the contract drawings and the directions of the Engineer.

When directed by the Engineer, the Contractor must remove and dispose of the temporary chain link fence to the satisfaction of the Engineer. The Contractor must then fill any holes left in the pavement with compacted clean sand to grade.

6.34A.3. MEASUREMENT. The quantities of Temporary Chain Link Fence to be measured for payment must be the number of linear feet of each type satisfactorily installed, complete, measured in place, from center to center of end posts.

Payment will be made for each type of Temporary Chain Link Fence only for the initial installation at any location. Whenever temporary chain link fence are moved to a new location, as required by the plans or directed by the Engineer, payment will be made in the same manner as if it were an initial installation. Minor movement of temporary chain link fence from one side of the roadway to the other side, or rearrangement within a work area will not be considered as a movement to a new location and will not entitle the Contractor to additional payment.

No payment will be made: for movements of each type of temporary chain link fence made for the Contractor's convenience; for movement of temporary chain link fence at a given location at the end of a work period and subsequent replacement at the same location at the beginning of the next work period; for movement of temporary chain link fence at a given location during a work period and subsequent replacement at the same location during the same work period; or for the interchanging of temporary chain link fence between initial installations.

6.34A.4. PRICES TO COVER. The contract prices bid per linear foot for each type of "TEMPORARY CHAIN LINK FENCE" must be a unit price per linear foot and must cover the cost of all labor, materials, plant, equipment, insurance, and necessary incidentals required to furnish, install, maintain, and remove temporary chain link fence; all in accordance with the contract drawings, the specifications and the directions of the Engineer. Temporary chain link fence must also include, but not limited to, any gates as may be required

Payment will be made under:

Item No.	Item Description	Pay Unit
6.34 ACT	TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH	L.F.

Section 6.39 B - Mobilization

6.39.1. DESCRIPTION. Under this section, the Contractor must set up all necessary general plant and facilities, including shops, storage areas, office and such sanitary and other facilities as are required by City, State or Federal law or regulation. Unless otherwise provided, the cost of required bonds and/or any other similar significant initial expenses required for the initiation of the contract work must also be included in this section. The determination of the adequacy of Contractor's facilities, except as noted above, will be made by the Engineer.

6.39.2. MATERIALS. Unless otherwise specified, materials required under this section are not part of the completed contract and may be as selected by the Contractor.

6.39.3. CONSTRUCTION METHODS. Such work as is done in providing the facilities and services under this section must be done in a safe and workmanlike manner and must conform with any pertinent City, State or Federal law, regulation or code. The Contractor must provide facilities and services under this section that are planned and executed to ensure the maintenance of safety and good housekeeping at the construction site.

6.39.4. PRICE TO COVER.

Payment will be made by lump sum. The amount bid will include the furnishing and maintaining of any plant, services or other facilities noted under "Description" to the extent and at the time the Contractor deems them necessary for the Contractor's operations, consistent with the requirements of this section and the contract. The amount bid for this lump sum item will be payable to the Contractor when the following items are submitted and approved by the Engineer:

1. The provision of a Field Office per Section 6.40 of the NYCDOT Standard Highway Specifications;
2. The Site Safety Plan per the Safety Requirements section of the Information for Bidders;
3. The Schedule of Operations (project baseline schedule) per Section 1.06.25 of the NYCDOT Standard Highway Specifications;
4. The Progress Schedule per Standard Construction Contract Article 9;
5. Preconstruction Photographs per Section 6.43 D of the NYCDOT Standard Highway Specifications are submitted to the Engineer; and
6. Construction Report per Item 76.11CR of the NYCDEP Standard Sewer and Water Main

Specifications, if item is required as part of the Contract.

However, should the Contract be terminated, or its term expires prior to completion of at least fifty percent (50%) of the original price bid for the Contract, then the Contractor will be paid a proportionate amount of this item (hereinafter referred to as the "Adjusted Mobilization Payment") based on the following formula:

$$\text{Adjusted Mobilization Payment} = \text{As Bid Mobilization Cost} \times \frac{\text{Total Actual Payments to the Contractor approved by the Engineer}}{\text{Original Total Bid Price} + \text{Approved and Registered Change Orders}}$$

Where the Contractor has already received the original total payment for this item and the Contract has been terminated or expired prior to completion of at least fifty percent (50%) of the work covered under the original price bid for the Contract, then any monies owed by the City due to the above specified reduction in payment will be withheld from the monies the City owes to the Contractor and/or the City reserves a claim to such funds from the Contractor.

The amount bid for Mobilization must not exceed eight percent (8%) of the total contract price, excluding the price bid for Mobilization, and in no case will payment under this item exceed the original price bid for this item.

Payment will be made under:

Item No.	Item	Pay Unit
6.39 B	MOBILIZATION	L.S.

SECTION 6.52 FED - UNIFORMED FLAGPERSON

6.52FED.1. INTENT. This section describes the employment of uniformed flagpersons to direct and detour traffic.

6.52FED.2. DESCRIPTION. The Contractor must furnish an adequate number of flagpersons to control vehicular and pedestrian traffic when it is necessary to maintain alternating one-way traffic in one lane of a two-way roadway, and at all other locations where construction operations, construction vehicles and equipment, detours, and temporary traffic patterns related to the construction operations require positive temporary traffic control for safe, efficient traffic operations.

6.52FED.3. METHODS. All flagpersons must be English speaking and adequately trained and certified in flagging operations by a recognized training program such as that provided by the American Traffic Safety Services Association, the National Safety Council, unions or construction industry associations, or by an individual who holds a current certification as a flagger training instructor from such a program.

All flagpersons, their apparel, hand-signaling devices, active two-way radios, and procedures to be used by them must be in compliance with the requirements of Chapter 6E. FLAGGER CONTROL, in the Federal "Manual on Uniform Traffic Control Devices for Streets and Highways" current edition.

Prior to the start of flagging operations, the Contractor must provide to the Engineer a list of certified flagpersons to be used in the contract, identifying the source of flagger training for each individual. When requested by the Engineer, flagpersons must demonstrate their competency in flagging procedures. Flagpersons not competent in flagging procedures to the satisfaction of the Engineer must be retrained or replaced at once.

The Contractor will be given a minimum of 12 hours advance notice by the Engineer as to when to furnish a flagperson.

6.52FED.4. METHOD OF MEASUREMENT. The fixed price lump sum shown in the bid proposal for this item will be considered the price bid, although actual payment will be based on the authorized work performed by the Uniformed Flagpersons. The fixed sum is not to be altered in any manner by the bidder.

It is agreed that the quantity to be measured for payment will be the number of person-hours of uniformed flagperson service actually performed, as authorized by the Engineer.

Laborers who are not certified uniformed flagpersons will not be measured for payment as flagperson under this item.

6.52FED.5. BASIS OF PAYMENT. The Contract price for this item will be a lump sum price for the work performed under this item and will be equal to the total sum of the amount of allowed

wages paid for all authorized Uniformed Flagpersons performing vehicular and pedestrian traffic management.

The amount to be paid per person-hour will be calculated as follows:

For the Entity directly employing the flagperson:	
Wages & Benefits:	The hourly rates for wages & benefits ("supplemental") will be the rates listed in the prevailing wage schedule for Laborers (<i>Notes 1, 2</i>).
Worker's Compensation Insurance:	Worker's Compensation Insurance will be paid for at cost, subject to the provisions of Article 26.2.9 of the Standard Construction Contract.
Taxes:	Applicable payroll taxes will be paid for at the appropriate cost.
Overhead & Profit:	12% overhead markup and 10% profit markup will be applied to the wage & benefit amounts. 5% combined overhead & profit markup will be applied to the Worker's Compensation Insurance amount. 0% overhead or profit markup on the premium portion of overtime wages. 0% overhead or profit markup on payroll taxes.

For the Contractor only, if the Entity directly employing the flagperson is a subcontractor:	
Overhead & Profit:	5% overhead and profit on subcontractor amounts as calculated above.

Note 1: If the contract has multiple prevailing wage schedules (e.g., NYC Comptroller Section 220 prevailing wage schedule or Federal Davis Bacon prevailing wage schedule) with different Laborer wage & benefit rates, the higher wage & benefit rates will be used. The Laborer rates appropriate for the type of work being performed will be used.

Note 2: The prevailing wages & benefits in effect at the time of work will be used.

Overhead will include without limitation, all costs and expenses in connection with administration, management superintendence, and all material costs for their apparel, hand-signaling devices, active two-way radios, and any other equipment required, and insurance required by Schedule A of the General Conditions other than Workers' Compensation Insurance.

The Contactor must submit to the Engineer satisfactory evidence of payment on certified payroll forms published by the Comptroller of the City of New York. No retainage will be withheld by the Department on such payments made under this section.

The total estimated cost of this item is the "fixed sum" amount shown for this item in the Bid Schedule. No guarantee is given that the actual total cost for this item will in fact be the "fixed sum" amount. The "fixed sum" amount is included in the total bid solely to ensure that sufficient monies will be available to pay the Contractor for these services.

The “fixed sum” is for bidding purposes only and must not be varied in the bid. The Contractor will be paid for the actual amount regardless of the fixed sum, which may be more or less than the fixed sum amount.

The Contractor must maintain separate books of accounts and must not charge any portion of the wages and benefits for Uniformed Flagpersons to another part of the work. Payment and partial payments under this item will be treated separately from the rest of the contract items.

The Comptroller’s certified payroll report forms must be completed on a weekly basis and submitted to the Engineer every thirty days or whenever a payment requisition is submitted in less than thirty days. The Contractor must submit signed original daily sign-in sheets and any required daily reports, as required under this contract or directed by the Engineer.

Payment will be made under:

<i>Item No.</i>	<i>Item</i>	<i>Pay Unit</i>
6.52	FED UNIFORMED FLAGPERSON	FIXED SUM

SECTION 7.35 - PEDESTRIAN CHANNELIZER

7.35.1. INTENT. This section describes the work of providing interlocking pedestrian channelizers to be used as temporary pedestrian access route between pedestrian and construction work areas when directed by the Engineer.

Pedestrian Channelizer must provide the same level of pedestrian guidance as concrete or plastic barrier, but should be light weight, easier to transport, install and remove with interlocking arrangements.

7.35.2. MATERIALS. The work must consist of furnishing, maintaining, relocating, and removing Pedestrian Channelizer in sidewalk areas as per the specifications, as shown on the Contract Drawings or where otherwise directed by the Engineer.

PEDESTRIAN CHANNELIZER units must meet the requirements of the following standards:

- (A) 2010 ADA Standards for Accessible Design
- (B) 2011 Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG)
- (C) 2009 Manual on Uniform Traffic Control Devices (MUTCD), with FHWA Revisions and NYS Supplements

Product should meet the crash test and evaluation criteria contained in the American Association of State Highway and Transportation Officials' (AASHTO) Manual for Assessing Safety Hardware (MASH) and have a FHWA acceptance letter.

Acceptable products include:

- (A) ADA PEDESTRIAN BARRICADE – STRONG WALL by PLASTICAIDE
- (B) ADA COMPLIANT PEDESTRIAN BARRICADE like Safety Rail & SafetyWall by PSS
- (C) 57000 Series by Urbanite
- (D) Plastic Safety System Safety Wall by PAUL PETERSON SAFETY DIVISION.
- (E) Or approved equivalent

7.35.3. METHODS. Pedestrian Channelizer units of the various sizes required must be furnished to the site, complete, ready to use. All units must be in good condition and acceptable to the Engineer. Pedestrian Channelizer installed must meet the requirements of the standards listed in **Section 7.35.2** above.

The Contractor must install Pedestrian Channelizer by placing them where shown on the Contract Drawings or where otherwise directed by the Engineer. Adjacent units must be interlocked. Weights (sand or water ballast in the unit, sandbags, concrete blocks, etc.) must be used per the manufacturer's recommendations, as necessary to ensure stability, or as directed by the Engineer. Weights must not interfere with pedestrian travel. The minimum number of interlocked barricade units in a given run must be two, unless otherwise approved by the Engineer. Where less than three units are required and approved by the Engineer, additional measures must be taken by the Contractor to stabilize the shorter length of interlocking barricade and prevent overturning.

At corners, units four feet or less in length must be used to form smooth curved runs of barricade.

Contractor must continuously maintain the temporary pedestrian steel barricades, where shown on the Contract Drawings or directed by the Engineer, until ordered by the Engineer to remove the barricades at the completion of a work stage. Should a unit or units of barricades become damaged or otherwise unacceptable to the Engineer, the Contractor must replace said units within twenty-four (24) hours of notice by the Engineer, at no additional cost to the City.

7.35.4. MEASUREMENT. The quantity to be measured for payment must be the number of linear feet of pedestrian channelizer constructed and placed, complete, based upon the summation of the lengths of the individual units so constructed and placed.

Payment will be made for only the initial installation at any location. Whenever pedestrian channelizer are moved to a new location, as required by the Contract Drawings or directed by the Engineer, payment will be made in the same manner as if it were an initial installation. Whenever the Contractor proposes to move pedestrian channelizer to a new location it is subject to approval of the Engineer and must be in accordance with the latest approved progress schedule. Minor movement of the pedestrian channelizer within a work area will not be considered as a movement to a new location and will not entitle the Contractor to additional payment. Minor movement within a work area includes, but is not limited to

- (A) Movement from one side of the roadway to the other side
- (B) Movement to adjust the roadway or work zone width
- (C) Movement required to access the work zone or to secure the work zone
- (D) Linear movement of less than one block within an established work zone
- (E) Rearrangement within a work area

No payment will be made: for non-interlocked units of barricade; for barricade units greater than four (4') feet in length used in corner quadrants; for movements of pedestrian channelizer made for the Contractor's convenience; for movement of barricades at a given location at the end of a work period and subsequent replacement at the same location at the beginning of the next work period; for movement of barricades at a given location during a work period and subsequent replacement at the same location during the same work period; or for the interchanging of barricades between initial installations.

7.35.5. PRICE TO COVER. The contract price bid per linear foot for PEDESTRIAN CHANNELIZER will cover the cost of furnishing all labor, materials, plant, equipment, insurance, and necessary incidentals required to furnish, install, maintain, relocate, and remove PEDESTRIAN CHANNELIZER, complete with weights for stability, in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

Where there is no scheduled item for temporary Pedestrian Steel Barricades, the cost of furnishing, installation, maintenance, relocation, and subsequent removal of PEDESTRIAN CHANNELIZER as required will be deemed included in the unit price bid for the Maintenance and Protection of Traffic Item.

Payment will be made under:

<i>Item No.</i>	<i>Item</i>	<i>Pay Unit</i>
7.35	PEDESTRIAN CHANNELIZER	L.F.

SECTION 7.70 TPR - TEMPORARY PEDESTRIAN RAMP (NOT A PAY ITEM)

7.70TPR.1. INTENT. This section describes the work of providing Temporary Pedestrian Ramps (TPRs) near new pedestrian construction work areas and the ADA guidelines. TPRs should provide access to sidewalk routes when pedestrian ramps are not accessible due to construction activities going on or around pedestrian ramps.

The work must consist of furnishing, installation, maintaining, relocating, and removing temporary pedestrian ramps in order to access sidewalk areas as shown on the Contract Drawings or where otherwise directed by the Engineer.

TPR must consist of temporary pedestrian ramp units having a geometry similar to that shown on the contract drawings, as directed the Engineer and complying with the following requirements:

- (A) TPR running slope must not exceed 1:12 ramp slope, which equals 4.8 degrees slope or one foot of wheelchair ramp for each inch of rise. For instance, a 30 inch rise requires a 30 foot handicap wheelchair ramp.
- (B) Cross slope must not exceed 1:48.
- (C) Handrails must be provided on both sides if rise is more than 6 inches.
- (D) A minimum 5' x 5' flat, unobstructed area at the top and bottom of the ramp
- (E) A Minimum width of 36 inches of clear space across the wheelchair ramp.
- (F) Maximum run of 30 feet will be allowed ramp before a rest or turn platform.
- (G) Ramp handrail height will be between 34" and 38" in height on both sides of the wheelchair ramps.
- (H) The TPR must allow for normal street drainage.

7.70TPR.3. MATERIALS AND METHODS.

1. **LUMBER TPR:** Lumber should have a slip-resistant surface. Use pressure treated wood for most of the wood material. Lumber must be preservative-treated southern pine, grade #2 or better. Pressure treated lumber must resist rot and decay with level of treatment as per American Wood Council latest standards. Decking board for the TPR will be at a minimum 2" thick.

2. **ALUMINUM TPR:** Aluminum should be high traction (e.g., textured extruded aluminum surface), dock plate with a coefficient of friction not less than 0.5 and made from high strength, lightweight aluminum; it should be slip-resistant and have a self-adjusting ground transition plate. The Ramp, Step, and Platform system is designed to be a rigid, free-standing structure. All footplates should be fastened securely to a concrete surface or 12" minimum diameter footings in order to achieve full structural integrity. Footing depth will depend on local building code.

Fastening all platforms to the building or modular building with lag screws is highly recommended.

3. **FIBERGLASS/PLASTIC TPR:** Fiberglass/ Plastic ramps should be able to take minimum wheelchairs, foot traffic etc., not less than 550 lbs., should be ADA compliant and adapts to varying curb heights from minimum of 2.5" to 7". Should be anti-slip with high

visibility surface and must be bolted for maximum stability and security. Coefficient of friction will not be less than 0.5.

All ramp handrails and ramp guardrails are designed to withstand a concentrated load of 200 pounds applied in any direction on the top of the rail.

All Ramp handrails are designed to be continuous along ramp runs and in between the inside corner of 90 degree and 180 degree turns in ramp direction. Handrails are not interrupted by posts or other obstructions.

Platforms and landings will be designed to carry a uniform live load of 100 pounds per square foot and a concentrated vertical load of 300 pounds in an area of one square foot.

Walking surfaces for serial number 1, 2 and 3 above must be designed to have a coefficient of friction no less than 0.50 in all directions of travel.

7.70TPR.4. METHODS.

All units shall be in good condition and acceptable to the Engineer.

The Contractor shall install the TPR by placing them where shown on the Contract Drawings, specifications and as directed by the Engineer. All the modular ramps will be assembled as per manufacturer's instructions.

If the modular ramps are pre-assembled and transported to their locations, Contractor shall use utmost care in the delivery and installation of these units.

Units can also be fabricated/constructed at site with the approval of the Engineer.

Contractor shall continuously maintain the TPR, where shown on the Contract Drawings or directed by the Engineer, until ordered by the Engineer to remove the completion of a work stage. Should a unit or units of barricades become damaged or otherwise unacceptable to the Engineer, the Contractor shall replace said units within twenty-four (24) hours of notice by the Engineer, at no additional cost to the City.

7.70TPR.5. MEASUREMENT AND PAYMENT

The price of Temporary Pedestrian Ramp (TPR) shall be deemed included in the prices bid for all the scheduled contract items.

SECTION 8.32 - BARK CHIP MULCH**8.32.1. DESCRIPTION.**

Under this section, the Contractor must furnish and place Bark Chip Mulch in accordance with the plans and specifications and as directed by the Engineer.

8.32.2. MATERIAL.

Bark Chip Mulch must be a natural forest product of 98% bark containing less than 2% wood or other debris. It must be of white or Red Fir and/or Pine bark of a uniform grade with no additives or any other treatment. Size of bark must be from 5/8" to 1-1/4". The ph factor should range from 5.8 to 6.2.

8.32.3. METHODS.

Bark Chip Mulch must be applied where required on the plans or directed by Engineer as a ground cover to the surface of beds and tree pits after the planting is completed. Mulch must be applied to a uniform depth of three (3") inches and must be so distributed as to create a smooth, level cover over the exposed soil. Plants must not be covered.

8.32.4. MEASUREMENT.

The quantity of Bark Chip Mulch to be paid for will be the number of square yards of ground surface area that has been satisfactorily covered with bark chip mulch within limits of enlarged tree pits surrounding existing trees as indicated on the plans and where directed by the Engineer.

8.32.5. PRICE TO COVER.

The unit price bid per square yard for Bark Chip Mulch must cover the cost of all labor, materials, plant, equipment, insurance, and incidentals necessary to complete the work under this section in accordance with the plans, the specifications and the directions of the Engineer.

No payment will be made under this item for furnishing and placing mulch in tree pits around newly planted or transplanted trees.

Payment will be made under:

<i>Item No.</i>	<i>Item</i>	<i>Pay Unit</i>
8.32	BARK CHIP MULCH	S.Y.

SECTION NYCT - 7A – MEMBRANE WATERPROOFING**1.0. GENERAL REQUIREMENTS****1.1. Scope of Work.**

- a. The Contractor shall furnish all labor, materials, tools and equipment, and perform all operations necessary for Membrane Waterproofing Work as indicated on the Contract Drawings and as specified herein.

1.2. Description.

- a. Membrane Waterproofing, except as otherwise specified herein, shall consist of a membrane of minimum three layers of treated fiberglass fabric mopped with asphalt, applied to the structure as indicated on the Contract Drawings. Where required free drainage shall be provided by pipe drains, hollow tile, or broken stone.

1.3. Applicable Codes, Standards and Specifications.

- a. Department of the Army, Corps of Engineers Guide Specification for Military Construction CEGS-07112/1985-Bituminous Waterproofing.
- b. American Concrete Institute, ACI 515.1R-79 (Revised 1985) - A Guide to the Use of Waterproofing, Dampproofing, Protective, and Decorative Barrier Systems for Concrete.
- c. Department of the Navy, Naval Facilities Engineering Command, Construction Engineering Handbook NAVFACP-455, Book 7 Moisture Protection.
- d. ASTM D1668: Standard Specification for Glass Fabrics (Woven and Treated) for Roofing and Waterproofing.
- e. ASTM 5035: Standard Test Methods For Breaking Force And Elongation Of Textile Fabrics.
- f. ASTM D41: Standard Specification for Asphalt Primer Used in Roofing, Dampproofing and Waterproofing.
- g. ASTM D449: Standard Specification for Asphalt Used in Dampproofing and Waterproofing.
- h. The N.R.C.A. Waterproofing Manual.
- h. ASTM D6506: Standard Specification for Asphalt Based Protection Board For Below-Grade Waterproofing.

1.4. Certification of Compliance.

- a. The Contractor shall obtain certification of compliance with specification requirements prior to delivery and installation.

1.5. Competent Workmen.

- a. The Contractor will be required to demonstrate that he has the necessary skill and experience required to perform Work of this nature. Only competent persons, skilled in this kind of Work shall be employed to apply the asphaltic compound.

1.6. Safety Precautions.

- a. The Contractor shall control workmen exposure to asphalt fumes in the Work Site by adhering to the recommendations developed by the National Institute for Occupational Safety and Health (NIOSH) and outlined in the Publication "A Recommended Standard For Occupational Exposure to Asphalt Fumes."

1.7. Schedule of Operations.

- a. The Contractor shall maintain for the inspection of the Engineer the schedule of operations.

1.8. Applicable VOC Regulations.

- a. All Waterproofing materials including primer shall be in compliance with applicable Federal, State and Local VOC regulations.

1.9. Limitation.

- a. Waterproofing Membrane shall not be used where soil is contaminated with oil.

1.10. Manufacturer's Instructions.

- a. The Contractor shall maintain the copy of manufacturer's installation instructions for the inspection of the Engineer, prior to delivery of materials to the Site.

1.11. Definition of Ply.

- a. Except as otherwise specifically provided in Paragraph 3.1, the term "ply" as used in this section shall mean a layer of treated fiberglass fabric, both sides of which shall be coated with asphalt at the time of laying as specified herein.

1.12. Number of Plies.

- a. The number of plies of Membrane Waterproofing shall be as indicated on the Contract Drawings.

1.13. Submittals.

- a. The submittals required for the Engineer's/Designer's approval shall be as set forth in the Specifications and may also be indicated in the submittal table at the end of this section for

the Contractor's convenience. Other items and/or submittals required to indicate conformance with the Contract Documents shall be available for Engineer's inspection.

2.0. MATERIALS.

2.1. General.

- a. Materials shall be delivered to the Site in the manufacturer's sealed containers, marked with the manufacturer's name and brand indicating the grade and quality of the materials.
 1. Materials showing evidence of damage, deterioration, or having been opened will be rejected.
- b. Rejected materials shall be removed from the Site before the application of Membrane Waterproofing is started.
- c. Materials shall be stored so that they will not be subject to physical damage or contamination. These materials shall be protected from oils, greases, waxes and solvents.

2.2. Material Properties.

2.2.1. Fabric Requirements.

- a. The fabric to be used shall be a fiberglass asphalt treated fabric conforming to ASTM D1668, Type I which shall have been treated before being brought to the Site. The untreated fabric shall weigh not less than 1.4 ounces per square yard, which when treated shall weigh not less than 2.0 ounces per square yard. The thread count shall be between 20 and 24 per linear inch in each direction. The strength of the fabric shall not be less than 75 pounds in either direction by the Strip Method (ASTM D5035).

The material used in treating the fabric shall have the same general characteristics as that used in cementing the layers on the work. The melting point of the asphalt used for treating fabric shall be between 135 degrees and 170 degrees Fahrenheit.

2.2.2. Asphalt Primer Requirements

- a. The waterproofing system shall be used with a cold applied primer conforming to ASTM D41.

2.2.3. Asphalt Requirements.

- a. Asphalt for subway waterproofing shall consist of fluxed natural asphalt, or asphalt prepared by the careful steam distillation of asphaltic petroleum, or by the careful steam distillation and air-blowing of asphaltic petroleum conforming to ASTM D449. The samples of asphalt, the materials used in its preparation, and the documents related to the method of manufacture shall be maintained for the inspection of the Engineer. The asphalt shall comply with the following requirements:
 1. The melting point of fluxed natural asphalt shall be between 115 degrees and 140 degrees Fahrenheit, as determined by the Ring and Ball method. The melting point

of steam distilled asphalt shall be between 125 degrees and 140 degrees Fahrenheit as determined by the Ring and Ball method. The melting point of steam-distilled and

airblown asphalt shall be between 125 and 140 degrees Fahrenheit as determined by the Ring and Ball method.

2. The consistency of the asphalt shall be determined by the penetration, which shall be between 50 and 100 at 77 degrees Fahrenheit, and not less than 5 at 32 degrees Fahrenheit. Penetration shall be the depth of penetration in hundredths of a centimeter of a No. 2 cambric needle. At 77 degrees Fahrenheit, the needle shall be weighted to 100 grams and shall act for 5 seconds. At 32 degrees Fahrenheit the needle shall be weighted to 200 grams and shall act for one minute.
3. A briquette of the asphalt of cross-section of one square centimeter shall have ductility of not less than 30 centimeters at 77 degrees Fahrenheit, the material being elongated at the rate of 5 centimeters per minute.
4. The specific gravity of the asphalt shall be not less than 1.00 at 77 degrees Fahrenheit.
5. Fluxed natural asphalt shall be not less than ninety-five percent soluble in cold carbon disulphide. Steam-distilled asphalt shall be not less than 99 percent soluble in cold carbon disulphide. Steam-distilled and airblown asphalt shall be not less than 99 percent soluble in cold carbon disulphide.
6. When a fifty-gram sample of the asphalt is heated for 5 hours at a temperature of 325 degrees Fahrenheit in a tin box approximately 2-3/16 inches in diameter it shall not lose over one percent by weight.
7. The penetration of the residue of the asphalt at 77 degrees Fahrenheit after heating as specified in the preceding paragraph shall be not less than 60 percent of the original penetration.

2.2.4. Waterproofing Protection Board.

- a. Waterproofing protection shall be 1/4-inch-thick asphalt-impregnated glass fiber rigid board.

2.2.5. Asphalt Mastic Waterproofing.

- a. Where indicated on the Contract Drawings, asphalt mastic of the quality specified in Paragraph 2.2.3 ASPHALT REQUIREMENTS shall be used.

3.0. CONSTRUCTION METHODS.

3.1. Preparation of Surface.

- a. The asphalt primer shall be applied to a dry substrate and in no case shall it be applied until at least 7 days after concrete placement, or longer if so recommended by the manufacturer.

- b. The membrane shall be applied when the weather is dry and the temperature in the shade is above 40 degrees F (degrees C).
- c. The substrate shall be free of dust, oil, grease and loose, weak and unsound materials. In order to insure a suitable surface, one of the following blast cleaning methods shall be used:
 - 1. dry sandblasting
 - 2. wet sandblasting
 - 3. high-pressure water jetting
- d. All projections shall be removed and all voids made smooth by applying a bed of mortar to the existing concrete.
- e. Bevels and fillets shall be provided where surfaces intersect.

3.2. Application.

3.2.1. Heating.

- a. The kettles in which the asphalt is heated on the Site shall be equipped with thermometers.
- b. The asphalt shall be heated to a temperature of approximately 250 degrees Fahrenheit, but in no case shall asphalt be heated to a temperature of more than 350 degrees Fahrenheit. Asphalt heated above 350 degrees Fahrenheit shall not be used in the Work.
- c. The fuel for heating the asphalt shall be as nearly as practicable non-smoke-producing. Depending upon local conditions, portable or non-portable heating containers may be used.

3.2.2. Membrane Waterproofing; How Laid.

- a. The membrane waterproofing shall not be laid unless concrete is cured for seven days. On smooth surfaces there shall be spread hot melted asphalt in a uniformly thick layer; on this layer of asphalt shall be laid a treated fiberglass fabric; this process shall be repeated until such number of layers as indicated on the Contract Drawings have been placed and a final coat of asphalt shall then be applied. Waterproofing shall not be applied if frothing or bubbling occurs when hot asphalt is applied to the surface. Flat asphalt must stick tightly to the surface.
- b. The fabric shall be rolled out into the asphalt while the asphalt is still hot, and pressed against the asphalt so as to insure the fabric being completely stuck over its entire surface and free from air pockets.

- c. To prevent cooling of the asphalt, only an area of the size to be determined by trial shall be mopped before rolling the fabric into place.
- d. Asphaltic Waterproofing shall be laid over compatible Waterproofing type. If the Waterproofing types are not compatible, metal flashing shall be used to physically separate two incompatible types.
- e. Special care shall be taken to lay Waterproofing Membrane over vertical surface during warm weather. Concrete shall be placed as soon as possible. Waterproofing which has sagged or cracked due to water build-up shall be replaced. When the structural wall or slab is placed against Waterproofing, special efforts are needed to avoid honeycomb in the concrete.

3.2.3. Asphalt to Completely Cover Surface.

- a. Each layer of asphalt shall completely and entirely cover the surface on which it is spread without cracks or blowholes.

3.2.4. Joints.

- a. Membrane waterproofing shall be so laid that at any cross-section through the fabric there shall be at least the full number of plies required. In order to insure this result there shall be an overlap of at least two inches at the ends and edges of each strip of fabric. The joints shall be staggered between plies.
- b. All joints in membrane waterproofing not laid in a continuous operation shall be lapped so as to secure a full lap of at least one foot at the ends and edges.
- c. In joining membrane waterproofing to asphaltic waterproofing in place, the surfaces of the waterproofing in place shall be cleaned and heated before joining the new waterproofing to that previously laid.

3.2.5. Leaks to be Stopped.

- a. Any membrane waterproofing that is found to leak at any time prior to the completion of the Work and final acceptance thereof by the NYCT shall be made watertight and any masonry, to which membrane waterproofing is not applied, that is found to leak at any time prior to the completion of the Work and final acceptance thereof shall be made watertight. In order to make the masonry watertight, portions shall be cut out and replaced if necessary, or the Contractor shall use such other means as may be required to make the masonry or membrane waterproofing watertight. In exceptional cases, leaks may be diverted or otherwise disposed of.

3.2.6. Use of Asphalt Mastic.

- a. Asphalt mastic shall be, poured in place, for seals between existing and new waterproofing.

3.2.7. Precautions after Laying Membrane Waterproofing.

- a. When concrete is laid against the membrane waterproofing material, care shall be taken not to break, tear or injure in any way the outer surface of the asphalt. The concrete shall be placed as soon as practicable after the membrane waterproofing is laid. No loads shall be placed upon exposed membrane waterproofing and no walking over or working upon exposed membrane waterproofing will be allowed.
- b. Where membrane waterproofing is applied to concrete of inverts, said waterproofing shall be protected with a one-inch thick mortar (or pea gravel aggregate concrete) layer, which shall be placed on top of the waterproofing within 24 hours after installation of waterproofing. The mortar layer shall not be placed until waterproofing has been inspected. Mortar protection shall be omitted if a structural slab is placed within 24 hours after installation of waterproofing.
- c. Waterproofing protection board shall be placed over membrane waterproofing if indicated on the Contract Drawings. Such protection shall be placed in accordance with manufacturer's recommended procedures. Particular attention is called to the Contractor that the intent is to protect the membrane waterproofing from damage during construction and therefore, the protection must be placed immediately upon completion of the placement of membrane waterproofing and prior to subsequent work that may result in damage thereto.
 - 1. Waterproofing protection board shall be pressed into the final application of asphalt while the asphalt is still hot, with edges of boards brought into moderate contact and joints staggered. Waterproofing protection shall be carefully and neatly fitted around pipes and projections and shall cover the entire surface of the waterproofing.

3.2.8. Rehabilitation of Waterproofing.

- a. Where protection concrete is removed from an existing structure, extreme care shall be taken to ensure that the existing membrane waterproofing is protected and portions that are disturbed or damaged shall be patched and repaired by the application of asphalt, fabric or any other materials deemed necessary to restore the membrane waterproofing and provide the surface necessary for proper lapping.

4.0. MEASUREMENT AND PAYMENT.**4.1. Payment for Membrane Waterproofing.**

- a. Payment for four (4)-ply Membrane Waterproofing will be made at the unit price bid in ITEM NYCT-7A.1, which price shall include the cost of all incidental work, labor and materials.
- b. Measurement for Membrane Waterproofing will be made on the basis of area covered and the number of plies used with no account being taken of laps.

- c. At joints where membrane waterproofing having any number of plies is lapped over membrane waterproofing having a different number of plies, payment for membrane waterproofing over the area covered by the overlap will be made under the item for the membrane waterproofing having the greater number of plies, to which the lesser number of plies is joined. In no case will payment be made for the laps of membrane waterproofing.
- e. Payment for 6-ply Membrane Waterproofing ordered to be used when severe water conditions are encountered will be made at 150 per cent of the price stipulated in the BID SCHEDULE for 4-ply membrane waterproofing.
- f. Mortar protection layer and protective concrete for membrane waterproofing in place, as required in Paragraph 3.2.7, precaution after laying membrane waterproofing, will be no separate payment.
- g. 4.2. Payment for Waterproofing Protection Board.**
 - a. Payment for Waterproofing Protection Board, complete, in place will be paid for at the unit price bid in ITEM NYCT-7A.2, which price shall include the cost of all incidental work, labor and material.
 - b. Measurement for Waterproofing Protection Board shall be made on the basis of area covered as indicated in the Contract Drawings with no account being taken of laps.\

Submittal Approvals

Item No.	Paragraph No.	Submittal	Approval By (Engineer or Designer)
1		NONE	

Notes:

1. This table does not include approvals for “or equivalent” proposals. Approvals for “or equivalent” proposals are covered in Information for Bidders, Paragraph 9 and Specification Section 1B, Paragraph 1.38.

Payment will be made under:

<i>Item No.</i>	<i>Description</i>	<i>Pay Unit</i>
NYCT- 7A.1	Membrane Waterproofing	S.F.
NYCT- 7A.2	Waterproofing Protection Board	S.F.

S - PAGES

GENERAL AND SPECIAL PROVISIONS:

- (A) GENERAL PROVISIONS**
 - (B) HIGHWAY PROJECT SPECIFIC PROVISIONS**
 - (C) SEWER & WATER MAIN PROJECT SPECIFIC PROVISIONS**
 - (D) GREEN INFRASTRUCTURE PROVISIONS**
-

NOTICE

THE PAGES CONTAINED HEREIN (S-PAGES) ARE GENERAL AND SPECIAL PROVISIONS THAT SHALL APPLY TO AND BECOME PART OF THE CONTRACT.

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(A) GENERAL PROVISIONS

A. LINES AND GRADES. The Contractor must furnish lines and grades in accordance with Section 1.06.27 of the NYCDOT Standard Highway Specifications, except that survey controls established for this project may no longer exist and the Contractor will be required to re-establish the survey control information using official Borough Survey Control Monuments and Bench Marks, where they exist. The Contractor must check with Topographic Section of the Borough President's Office as to the reliability and accuracy of the data to be used for lines and grades.

B. SPECIFIC TRAFFIC STIPULATIONS. Under this contract, the Contractor must perform the work in strict accordance with the requirements of Section 6.70 in the Standard Highway Specifications, specific traffic stipulations as called for on the plans, Office of Construction Mitigation and Coordination (OCMC) Traffic Stipulations attached to the end of these Special Provisions, and the directions of the Engineer. In case of a conflict, the Engineer's decision will be final.

In addition, the cost of compliance with requirements of the OCMC Traffic Stipulations, unless otherwise provided for, will be deemed included in the prices bid for all scheduled items.

C. HOLIDAY CONSTRUCTION EMBARGO. A special Holiday Construction Embargo will be in effect on the Friday of the week preceding Thanksgiving Day week from 6:00 AM to 11:59 PM and again from the Monday of Thanksgiving Day week from 6:00 AM through January 2, at 11:59 PM. Roadway and sidewalk construction activities will be restricted during the embargo period on the streets listed below*.

Any permits issued prior to the date of this notice, for work during this embargo period on the streets listed below* which do not already have the permit stipulation "410" are hereby suspended for the period noted above. All permittees must comply with this embargo unless a special waiver is granted by OCMC. Waiver requests must be filed at least thirteen days before Thanksgiving Day, in the Permit Office by filing a "Request for Roadway/Sidewalk Permits During "Embargo Periods" and submitting supporting documentation. Waiver requests should only be submitted for critical reasons for a specific project. If a waiver is granted, the applicant will be notified so they can apply for the approved permits. Waivers **are not** required for ongoing Building Construction Activity Permits which already include the "410" permit stipulation. Waiver request forms may be obtained at any Permit Office or on the Department of Transportation's website at:

<http://www.nyc.gov/html/dot/downloads/pdf/holidayembapp.pdf>

Prior to this embargo period all necessary measures must be taken so that all roadways and sidewalks are in proper condition to allow for the expeditious and safe movement of vehicular, bicycle and pedestrian traffic. Tool carts, cable reels, containers, and material stored on roadways must be removed during the embargo period.

The opening of utility access covers is prohibited on any of the streets noted below** between the hours of 6:00 AM and midnight unless the utility or Contractor files for an Emergency Authorization Number as required by Section 2-07 of the Department of Transportation's Highway Rules. The planned opening of utility access covers may occur during the hours of 12:01 AM and 5:59 AM where no authorization number is required.

Temporary restoration of the streets and sidewalks and removal thereof, if required for the Holiday Embargo period, will be paid for under the appropriate scheduled items.

No extension of time due to the shutdown period will be granted to the Contractor for completion of the work.

*** Please note that this embargo only applies to NYCDOT construction permits.**

*** List of street and maps of the affected locations are available by borough on the Department of Transportation's website at:**

<http://www.nyc.gov/html/dot/html/motorist/trafalrt.shtml>

D. CONTRACT ITEMS THAT INCLUDE BACKFILL AS A PART OF THEIR WORK. The following will pertain to all contract items that have backfill as a part of their work: Backfilling will comply with Subsection 4.11.3 of the Standard Specifications and no additional payment will be made for any Highway or Street Lighting work item requiring Contractor to furnish additional fill material to meet these requirements when backfilling.

E. ACCELERATED PROJECT SCHEDULE AND COMBINATION OF STAGES. Contractor will plan and/or stage his/her work schedule using all hours/days available. Contractor is advised that all applicable unit prices will include, for the purpose of this contract, all overtime costs, premium time costs, shift differentials required to complete construction within the specified "Time(s) of Completion" stipulated in this contract.

Contractor will be permitted to accelerate this project, to combine stages and/or work sequences. Any such changes will be shown in the construction schedule, to be furnished in accordance with the General Provisions of the Standard Specifications.

F. DISPOSAL OF EXCESS EXCAVATED MATERIAL. All excess excavated material, with the exception of contaminated material, will become the property of the Contractor and will be properly disposed of away from the site, at the Contractor's expense. Contaminated material will be disposed of separately in accordance with contract requirements.

G. NO EXTENSION OF TIME FOR WINTER SHUT-DOWN. Where the Contractor's approved work schedule for installing sidewalk, curb, roadway base and/or pavement falls within the winter period of December 1st through April 1st, the Contractor will NOT be granted an extension of time for completion of this contract due to the winter shut-down period, unless otherwise provided in Schedule A.

H. PRIVATE UTILITY HARDWARE ADJUSTMENTS. will be performed by the owning utility company or its agent, at its expense. The Contractor must notify the utility company 72 hours prior to start of work at each location where its hardware requires adjustment.

I. SURVEY MONUMENTS. When working in the vicinity of survey monument the Contractor will hand excavate per Item 8.02 AB-S, 8.02JA, 8.02JB, 8.02 A and 8.02 B (as applicable), at City Survey Monuments, for a distance of five (5) feet around each monument, as directed by the Engineer.

J. RESTORATION OF ADJACENT AREAS. The Contractor will be required to remove all form work. In planting strip areas, the Contractor will be required to restore areas damaged as a result of the Contractor's operations, to the satisfaction of the Engineer, with sod. The Contractor will also, as directed by the Engineer, make safe adjacent areas to the Contractor's work, such as: restoring missing or damaged pavement markings that were removed or damaged as a result of the Contractor's operations (as per requirements of Section 6.44 in the Standard Specifications); resetting granite blocks in tree pits; and, applying binder mixture (Item 4.02 CA or as applicable) where badly broken sidewalk or curb may create a dangerous condition just outside his area of operation, where and when directed by the Engineer.

All restoration work must be performed to the satisfaction of the Engineer.

K. FLAGGERS. The Contractor is notified that wherever the Item No. "6.52" and words "flagger", "flagperson" and "flagman" are used in the contract documents and drawings it will mean the Item No. "6.52 CG" and the words "Crossing Guard", respectively. The Contractor is advised that until the Comptroller of the City of New York sets a prevailing wage rate for crossing guards, there are no prevailing wage rates for crossing guards.

For projects that require compliance with the Davis-Bacon Act, wherever the Item No. "6.52" and words "flagger", "flagperson" and "flagman" are used in the contract documents and drawings it will mean the Item No. "6.52 FED" and the words "Uniformed Flagperson", respectively.

L. FUEL COST. The Contractor is notified that the fuel cost per gallon used in the formula under Sub-Article 26.2.8 of the Standard Construction Contract for Extra Work will be derived from the fuel price index for the United States East Coast published weekly by the United States Energy Information Administration ("USEIA"), and available on its website at <http://www.eia.gov/petroleum/gasdiesel/>. The USEIA-published cost per gallon for the applicable fuel on the East Coast for the week in which the first day of each calendar quarter during the contract term occurs (i.e., January 1st, April 1st, July 1st and September 1st) will be used in the reimbursement formula for all **Extra Work** invoiced that was performed during that calendar quarter. Should the USEIA stop publishing this fuel price index, the fuel cost per gallon will be determined by reference to a substitute index to be agreed upon by the Contractor and the City.

M. NYCDPR CONSTRUCTION PERMITS AND OTHER REQUIREMENTS.

1. At least thirty (30) days prior to the upcoming start of construction at or near the New York City Department of Parks and Recreation (NYCDPR) land, the Contractor is required to issue a notice to NYCDPR about the start of construction activity. At least 30 days in advance of the Order to Work Date, the Contractor must notify the New York City Department of Parks and Recreation (NYCDPR) of the upcoming start of construction by emailing interagency@parks.nyc.gov.

2. Parks Construction Permits are required for all work on Parkland. Construction Permits may also be required for work on sidewalks adjacent to Parks properties or other areas maintained by NYCDPR such as Greenstreets depending on the scope of work. It is the Contractor's responsibility to coordinate with Parks via email at interagency@parks.nyc.gov to establish whether Construction Permits are required for the contract scope of work.

3. The Contractor will not be permitted to store, stage, stockpile, barricade, lay down construction materials or equipment, or otherwise impede access to Parkland, Greenstreets, or sidewalks in the right-of-way fronting Park properties unless such permission is granted by NYCDPR via issuance of a Parks Construction Permit.

4. The Contractor must obtain the necessary Parks Construction Permit from NYCDPR prior to the start of work on Parkland or areas under Parks' jurisdiction. The Construction Permit application is found online at <https://www.nycgovparks.org/permits/construction>.

5. When no Construction Permit is required, the contractor must notify Parks at interagency@parks.nyc.gov at least one week in advance of any construction adjacent to Greenstreets or in the right-of-way fronting Parks properties to allow for coordination as needed.

6. The Contractor is responsible for the protection of any Greenstreets, sidewalks, and other landscape features under NYCDPR jurisdiction that are adjacent to or enclosed by the construction area, including hardscape, landscape, shrubs, and trees. Any areas and features disturbed or damaged during construction activity are the responsibility of the Contractor to restore and repair.

7. Many NYCDPR properties are indicated on the publicly accessible online mapping resource of the New York City Department of Information Technology and Telecommunications (DOITT) at <http://maps.nyc.gov/doitt/nycitymap/>. However, the map is not exhaustive, and Contractors should confirm Parks properties in the vicinity of their work with NYCDPR.

8. The contractor must take necessary precautions to prevent interference with or damage to utilities or other facilities during construction. The cost of all work connected with maintaining and protecting utilities affected by the work be borne by the Contractor and the cost will be deemed included in the price bid for the various items in the contract.

9. In the event the Contractor damages an existing utility or interrupts utility service, the Contractor will immediately notify its owner and the Engineer and must commence repair/replacement work as instructed by the Engineer.

10. In the event the Contractor causes an interruption in utility service, the Contractor will immediately arrange for service to be restored and may not cease the repair work until service is restored. The Contractor will not continue work until the service is restored, unless otherwise directed by the Engineer. All corrective utility work will be acceptable to the engineer and the subject utility owner.

11. If any utility service or connection of unknown ownership is encountered during construction which appears to enter or serve Parkland, Contractor must contact Parks at interagency@parks.nyc.gov to inquire if Parks is the owner of such utility.

N. START OF CONTRACT WORK. The Contractor is notified that a Notice To Proceed (NTP) date will be issued for work to commence within 21 to 30 Days of Contract Registration.

O. VIBRATORY ROLLERS. For Federal Highway Administration (FHWA) project the use of vibratory rollers is prohibited within the project limits.

[ARTICLE "P" IS ONLY APPLICABLE WHEN WORKING NEAR OR AT MTA FACILITIES]

P. N.Y.C. TRANSIT INSURANCE. The Contractor (Permittee) must indemnify and save harmless the City of New York and the New York City Transit (Permitter) in accordance with the following "Insurance Requirements" and proof that the necessary insurance is in effect will be required before work can commence:

NYCT "OUTSIDE CONTRACT" INSURANCE REQUIREMENTS

1. The Permittee at its sole cost and expense will carry or cause to be carried and will maintain at all times during the period of performance under this Agreement policies of insurance as herein set forth below:

(a) Workers' Compensation Insurance (including Employer's Liability Insurance) with limits as specified in Schedule A, which limit may be met by a combination of primary and excess insurance meeting the statutory limits of New York State. The policy will be endorsed to include Longshoreman's and Harbor Workers' Compensation Act/Maritime Coverage Endorsement and/or Jones Act Endorsement when applicable.

(b) Commercial General Liability Insurance (I.S.O. 2001 Form or equivalent) approved by Permitter in the Permittee's name with limits of liability as specified in Schedule A for each occurrence on a combined single limit basis for injuries to persons (including death) and damages to property. The limits may be provided in the form of a primary policy or combination of primary and umbrella/excess policy. When the minimum contract amounts can only be met when applying the umbrella/excess policy; the Umbrella/Excess Policy must follow form of the underlying policy and be extended to "drop down" to become primary in the event primary limits are reduced or aggregate limits are exhausted. Such insurance will be primary and non-contributory to any other valid and collectable insurance and must be exhausted before implicating any Permitter/MTA policy available.

Such policy should be written on an occurrence form; and will include:

- Contractual coverage for liability assumed by the Permittee under this agreement;
- Personal and Advertising Injury Coverage;
- Products-Completed. Operations;
- Independent Contractors Coverage;
- "XCU" coverage (Explosion, Collapse, and Underground Hazards) where necessary;
- Contractual Liability Exclusion, applicable to construction or demolition operations to be performed within 50 feet of railroad tracks, will be voided, where necessary; and,
- Additional Insured Endorsement (I.S.O. Form CG 20 26 07/04 version or equivalent) approved the Permittee naming:

New York City Transit Authority (NYCTA), the Manhattan and Bronx Surface Transit Operating Authority (MaBSTOA), the Staten Island Rapid Transit Operating Authority (SIRTOA), MTA Capital Construction Co., the Metropolitan Transportation Authority (MTA) including its subsidiaries and affiliates, and the City of New York (as Owner).

(c) Business Automobile Liability Insurance Policy - (I.S.O. Form CA 00 01 10 01 or equivalent) approved by the Permittee is required if Permittee's vehicle enters Permitter property. The insurance must be in the name of the Permittee or its contractor entering the Permitter property with limits of liability in the amount specified in Schedule A for claims for bodily injuries (including death) to persons and for damage to property arising out of the ownership, maintenance or use of any owned, hired or non-owned motor vehicle.

(d) Railroad Protective Liability Insurance policy will be required as specified in Schedule A.

(e) Environmental/Pollution Exposures In the event environmental or pollution exposures exist, the Permittee will require the environmental contractor or sub-contractor to provide the applicable insurance covering such exposure. The limits and type of insurance provided will be satisfactory to the Permitter and will be confirmed to the parties prior to the start of the work.

2. General Requirements Applicable to Insurance Policies

(a) All of the insurance required by this Article will be with Companies licensed or authorized to do business in the State of New York with an A.M. Best Company rating of not less than A-/VII or better and reasonably approved by the *Permitter/MTA* and will deliver evidence of such policies.

(b) Except for Workers Compensation, all references to forms and coverages referred to above will be the most recent used by the Insurance Services Office, Inc. (ISO) or equivalent forms approved by the Insurance Department of the State of New York, provided, however, that excess coverages may be written on forms reasonably acceptable to Permitter containing provisions other than those contained in ISO forms but otherwise conforming in substance to the requirements of this Article.

(c) The Permittee or its Contractor performing the work must furnish evidence of all policies before any work is started to the Permitter using the following link

<https://us.marketplace.asite.com/marketplace/main/detail/28/1/1/5512158/forms>

These policies must: (i) be written in accordance with the requirements of the paragraphs above, as applicable; (ii) be endorsed in form acceptable to include a provision that the policy will not be canceled, materially changed, or not renewed, unless otherwise indicated herein, at least thirty (30) days prior written notice to the Permittee c/o MTA Risk and Insurance Management (MTA RIM) Department – Standards, Enforcement & Claims Unit, 2 Broadway – 21st floor, New York, NY 10004; and (iii) state or be endorsed to provide that the coverage afforded under the contractor's policies will apply on a primary and not on an excess or contributing basis with any policies which may be available to the Permittee/MTA, and also that the contractor's policies, primary and excess, must be exhausted before implicating any Permittee/MTA policy available. (iv) In addition, contractor's policies will state or be endorsed to provide that, if a subcontractor's policy contains any provision that may adversely affect whether contractor's policies are primary and must be exhausted before implicating any Permittee/MTA policy available, contractor's and subcontractor's policies will nevertheless be primary and must be exhausted before implicating any Permittee/MTA policy available. Except for Professional Liability, policies written on claims made basis are not acceptable. At least two (2) weeks prior to the expiration of the policies, contractor will endeavor to provide evidence of renewal or replacement policies of insurance, with terms and limits no less favorable than the expiring policies. Except as otherwise indicated in the detailed coverage paragraphs below, self-insured retentions and policy deductibles will not exceed \$100,000, unless such increased deductible or retention is approved by Permittee/MTA. The Permittee will be responsible for all claim expense and loss payments within the deductible or self-insured retention. The insurance monetary limits required herein may be met through the combined use of the insured's primary and umbrella/excess policies.

(d) Certificates of Insurance may be supplied as evidence of policies of the above policies, except for Policy (d) Railroad Protective Liability Insurance Policy. However, if requested by the Permittee, the Permittee will deliver to the Authority, within forty-five (45) days of the request, a copy of such policies, certified by the insurance carrier as being true and complete. The Railroad Protective Liability Insurance Policy must be provided in the form of the Original Policy. A detailed Insurance Binder may be provided, ACORD or Manuscript Form, pending issuance of the Original Policy. The Original Policy must be submitted to MTA RIM within 30 days of the Binder Approval.

(e) If a Certificate of Insurance is submitted, it must: (1) be provided on the Permittee Certificate of Insurance Form or MTA Certificate of Insurance Form for Joint Agency Agreements; (2) be signed by an authorized representative of the insurance carrier or producer and notarized; (3) disclose any deductible, self-insured retention, sub-limit, aggregate limit or any exclusions to the policy that materially change the coverage; (4) indicate the Additional Insureds and Named Insureds as required herein, along with a physical copy of the Additional Insured Endorsement (I.S.O. Form CG 20 26 07/04 version or equivalent), as applicable and the endorsement(s) must include policy number(s); (5) reference the Contract by number on the face of the certificate; and (6) expressly reference the inclusion of all required endorsements.

(f) The minimum amounts of insurance required in the detail description of policies (a), (b), (c), and (d) above will not be construed to limit the extent of the Permittee's liability under this Agreement.

(g) If, at any time during the period of this Agreement, insurance as required is not in effect, or proof thereof is not provided to the Permittee, the Permittee will have the options to:

- (i) direct the Permittee to suspend work or operation with no additional cost or extension of time due on account thereof; or
- (ii) treat such failure as an Event of Default.

Q. STANDARD WORKING HOURS: In absence of OCMC Traffic Stipulations, standard working hours are 7:00 A.M. and 6:00 P.M., Monday through Friday. Work performed outside the standard working hours must be pre-approved by DDC.

R. TREE BARRIERS. The Contractor will furnish, install, maintain and subsequently remove temporary Protective Tree Barriers. Protective Tree Barriers will be Type B, unless otherwise directed by the Engineer, and will be constructed and installed as shown on the Protective Tree Barrier sketch in Department Of Transportation, Standard Highway Details Of Construction, Drawing No. H-1046A, as directed by the Engineer, and in accordance with Department of Parks and Recreation requirements.

Price of the tree barriers must be included in the in the unit prices bid for all scheduled items.

S. UTILITIES. All utility locations and invert elevations are not guaranteed, nor is there any guarantee that all existing utilities, whether functional or abandoned within the project area are shown.

T. HOUSE CONNECTIONS. All existing house connections will be maintained and supported during construction. The Contractor will replace any existing house connection damaged as a result of the Contractor's construction operations as ordered by the Engineer at no cost to the City.

U. VICTAULIC STYLE 77 COUPLING. The Contractor is notified that Victaulic Style 77 Coupling is no longer acceptable for use in any steel water main work. All reference to Victaulic Style 77 Coupling within the Standard Sewer And Water Main Specifications of the Department of Environmental Protection (dated July 1, 2014), the Water Main Standard Drawings of the Department of Environmental Protection (latest revisions), the Specifications For Trunk Main Work (dated July 2014), and the contract drawings, will be replaced with Bolted Split-Sleeve Restrained Coupling.

V. STREET LIGHT AND TRAFFIC SIGNAL. The Contractor is responsible for any damage to the existing street lighting and traffic signal equipment, including underground conduits and the safety of both pedestrian and vehicular traffic for the duration of the contract.

Should any conduits, cables or foundations need repair due to the Contractor's negligent operations during construction, all work will be performed according to NYCDOT Bureau of Traffic's Standard Drawings and Specifications and City of New York DOT System Engineering Specifications (dated November 2013) at the sole expense of the Contractor.

It is the Contractor's responsibility to secure an approved electrical contractor to perform all traffic signal work (if any). For list of approved electrical contractors, contact Bjorn Seedan or James Celentano, New York City Department of Transportation at (212) 839-3790.

W. SAW CUT. The Contractor is advised that where the existing roadway pavement is designated to be replaced from curb to curb, then no full depth saw cutting of pavement for sewer and water main trenches will be required, except at the limits of full width pavement restoration. No separate or additional payment will be made for any saw cutting.

X. PRE-CONSTRUCTION STAGE. The Contractor is advised that the Base Contract Duration (consecutive calendar days "ccds") must also include pre-construction stage from the Notice To Proceed date. During this stage the Contractor is required to submit the necessary shop drawings, obtain all permits and submit the health and safety plan for review and approval. The Engineer's field office will also need to be established during this pre-construction stage period. Failure to comply with the pre-construction stage requirements may result in assessing liquidated damages to the Contractor for everyday beyond the pre-construction stage duration. The liquidated damage will be of equivalent value as identified in the Schedule A for work beyond the construction completion date.

Y. EXISTING SEWERS, WATER AND APPURTENANCE. The Contractor is notified that at some locations there may exist sewers, manholes, water mains, etc., which are to remain undisturbed and are in close proximity to the line of the proposed work. The Contractor exercise extreme care, minimize the trench width of the proposed sewers and take all necessary precautions in placing sheeting and during excavation of the trenches to prevent any damage to the existing structures, pavement, curbs, and sidewalks that are to remain while working adjacent to them. The Contractor maybe restricted to use wood sheeting at certain critical locations as directed by the Engineer. Should any damage occur to any portion of the existing structures that are to remain due to the Contractor's operations, the Contractor will make all repairs to the existing structures to the satisfaction of and as directed by the Engineer. The cost of such repair will be borne by the Contractor, at no cost to the City. Additional cost to use wood sheeting specifically to ensure integrity of existing sewer structures will be deemed included in all bid items for work.

Z. RECONNECTING EXISTING SEWERS TO NEW MANHOLES. If there are locations on the contract plans, where the Contractor is required to reconnect all existing sewers to the proposed manholes in this contract. The said manholes will be fabricated to provide openings for the existing sewers at the specified invert elevations as shown on the contract drawings. The cost of reconnecting existing sewer pipes to new manholes, including concrete collar with steel reinforcements and/or grouting around the existing sewer pipes at the openings and all work necessary to complete the pipe reconnection, to the satisfaction of the Resident Engineer will be deemed included in the prices bid for all items of work. No additional payment will be made.

***[ARTICLE "AA" IS ONLY APPLICABLE IF ITEMS FOR VIBRATION MONITORING
ITEM NO. 76.31 IS IN THE BID SCHEDULE]***

AA. VIBRATION MONITORING. In case of structures requiring vibration monitoring, the Contractor, in addition to Continuous Real Time Monitoring for Vibrations as determined in the Construction Report must provide Continuous Real Time Monitoring for Vibrations of existing buildings/structures adjacent to or in the proximity of different types of construction activities being conducted including, but not limited to, installation of sheeting for construction of proposed water and sewer mains, installation of sheeting for excavation of jacking/receiving pits, direct jacking of sewers, piling work or as directed by the Engineer.

AB. CITY ASSETS. The Contractor is advised that any City owned light poles, traffic signals, street name signs, traffic signs and encumbrances including, but not limited to, underground conduit displaced as the result of the installation of the new sewers, water mains, catch basins, catch basin connections and appurtenances will be replaced in kind and as directed by the Engineer. The cost of such work will be deemed included in the prices bid for all items of work under this contract.

[ARTICLE "AC" IS ONLY APPLICABLE FOR WATERMAIN 24-INCHES AND HIGHER]

AC. "AS-BUILT" DRAWINGS FOR WATER MAINS AND APPURTENANCES 24-INCHES (600-MM.) AND LARGER: Upon the completion of the work for each Capital Project and as a condition precedent to obtaining the certificate for substantial completion for each Capital Project under Article 44 of the Contract, the Contractor will furnish "As-Built" drawings for water mains and appurtenances 24-inches and larger to the City. The Contractor will prepare and submit the "As-Built" record drawings to the Engineer for approval. Approved "As-Built" drawings will be delivered to the Department of Design and Construction, 30-30 Thomson Avenue, Long Island City, New York, 11101-3045. The following guideline is provided for the preparation of "As-Built" record drawings:

1. The Contractor will prepare the "As-Built" drawings on AutoCAD and will provide to the City two (2) sets of Mylar and AutoCAD files on a CD. The drawings on CD's and the plotted Mylar's will conform

to the standard size of 22" x 36" (559-mm. x 914-mm.) using a 1"=30' (1:360) horizontal and 1"=10' (1:120) vertical scale. The Mylar will be 3-mil in thickness.

2. The "As-Built" drawings will include but not be limited to the following guidelines summarized below:

(a) Drawings will consist of the same legend and layout of title boxes shown on the contract drawings.

(b) Each plotted Mylar drawing will contain the signature and stamp of the Contractor's NYS Professional Engineer/Registered Architect.

(c) The drawings will include:

- street name and crossing street(s) or distance from;
- north arrow;
- property lines and widths;
- legal and existing street widths, street alignment and grades;
- "new" curb lines and widths;
- water main center line measured off the "new" curb line;
- horizontal stationing for all valves, hydrants, outlets, blow-offs, house service connections, etc., measured on a horizontal line as established by the Borough Office Bureau of Topographic;
- alignment and appurtenance location stationing, and deflection angles;
- cover and elevations (Datum used will be that of the Borough where work is located);
- location of pipe joints;
- profile of all piping;
- complete details of all outlet piping roundabouts;
- complete details of all blow-off connections to the sewer;
- complete details of all air cocks;
- location of taps and access manholes;
- location of all cathodic protection stations;
- Venturi sensing lines plans and profiles;
- all appropriate notes.

3. The cost of preparing and submitting "As-Built" approved drawings will be deemed included in the prices bid for all scheduled bid items in the contract. No separate or additional payment will be made for this work.

AD. SIDEWALK PEDESTRIAN RAMPS STANDARD DRAWING. The Contractor is advised that NYCDOT Standard Drawing number H-1011 dated 7/1/10, SIDEWALK PEDESTRIAN RAMPS, is no longer to be used for the purpose of determining geometry, dimensions, and tolerances for the construction of sidewalk ramps. NYSDOT Standard Sheet 608-01 (Pedestrian Facilities) must be used

for determining geometry, dimensions, and tolerances for the construction of sidewalk ramps, except that Type 8 must not be used. All requirements of the NYCDOT Standard Highway Specifications will still apply; this does not mandate or allow the use of any NYSDOT Standard Specifications as an alternate unless specifically called for in the contract documents.

NYSDOT Standard Sheet 608-01 is available at the following link:

<https://www.dot.ny.gov/main/business-center/engineering/cadd-info/drawings/standard-sheets-us>

AE. NO ADDITIONAL PAYMENT. The Contractor is advised that any fences, guardrails, boulders, asphalt walkway of the park, fixtures, other encumbrances removed within project limits during construction will be replaced in kind to the satisfaction of the Engineer. The cost of such work will be deemed included in the prices bid for all contract items of work and no additional or separate payment will be made.

AF. SHEETING AND EXCAVATION AT TRANSIT FACILITIES. In case of transit facilities like MTA, LIRR, METRO NORTH etc., the Contractor will exercise extreme caution and take all necessary precautions in placing sheeting and excavation to prevent any damage to the existing underground or overhead structures and its appurtenances during construction work throughout the project area. The Contractor must take full responsibility to protect the said structures and its appurtenances and any damage caused by the Contractor's operations must be made good by the Contractor to the satisfaction of the Engineer at no additional cost to the City.

The Contractor must submit shop drawings to the Transit facilities showing all the details and methods of construction, such as, sheeting and bracing, including the Contractor's procedure and sequence of construction, supporting and/or protection of the existing structures and its appurtenances, with necessary design calculations for approval prior to starting of the construction. The design will be made by a New York State Licensed Professional Engineer skilled in this type of construction and as further evidenced by the imprint of Professional Engineer's seal and signature on all drawings. The cost of this work will be deemed included in the price bid for all items of work under this contract.

[ARTICLE "AG" IS ONLY APPLICABLE IF PAVEMENT MARKING ITEMS LIKE ITEM NUMBERS 6.44, 6.44CST, 6.49 ETC., ARE IN THE BID SCHEDULE]

AG. PAYMENT FOR PAVEMENT MARKINGS Pavement Markings such as those detailed in the Pavement Markings Conversion Table attached herein and shown on the Typical Pavement Markings word messages attached herein Attachment 1 and Attachment 2, will be payable in quantities of LF (Linear Feet).

[ARTICLE "AH" IS ONLY APPLICABLE IF ITEMS ITEM NO. HW-908 FOR ARCHAEOLOGICAL DISCOVERIES IS IN THE BID SCHEDULE]

AH. ARCHAEOLOGICAL DISCOVERIES. The Contractor is notified that if requested by the Resident Engineer and the City, the Contractor will be required retain the services of an Archaeologist (the "City's Archaeologist") for this project.

The City's Archaeologist will be notified in advance and will be present on site during sub-surface excavations as deemed necessary. The City's Archaeologist will be authorized to halt construction at any time in order to record and/or recover any archaeological resources encountered during excavations, and to stabilize in place any human remains encountered.

For the purpose of evaluating and recording archaeological resources, the City's Archaeologist will be allowed to enter trenches provided all standard safety requirements are met. It is understood that some construction down time may be necessary.

In the event that human remains, and/or other significant archaeological deposits are encountered during construction or archaeological investigations, Landmarks Preservation Commission (LPC) will be notified as directed by the City's Archaeologist and the State Historic Preservation Office (SHPO) requires that the following protocol is implemented:

1. At all times human remains must be treated with the utmost dignity and respect. Should human remains be encountered work in the general area of the discovery will stop immediately and the location will be immediately secured and protected from damage and disturbance.
2. Human remains or associated artifacts will be left in place and not disturbed. No skeletal remains or materials associated with the remains will be collected or removed until appropriate consultation has taken place and a plan of action has been developed.
3. The County coroner and local law enforcement as well as the SHPO and the involved agency will be notified immediately. The coroner and local law enforcement will make the official ruling on the nature of the remains, being either forensic or archeological. If the remains are archeological in nature, a bio-archaeologist will confirm the identification as human.
4. If human remains are determined to be Native American, the remains will be left in place and protected from further disturbance until a plan for their protection or removal can be generated. The involved agency will consult SHPO and appropriate Native American groups to determine a plan of action that is consistent with the Native American Graves Protection and Repatriation Act (NAGPRA) guidance.
5. If human remains are determined to be Euro-American, African- American, etc., the remains will be left in place and protected from further disturbance until a plan for their avoidance or removal can be generated. Consultation with the SHPO and other appropriate parties will be required to determine a plan of action.

Should extra work be ordered by the Resident Engineer as a result of any archaeological discoveries, it will be paid for from the Fixed Sum included in, and in accordance with Item HW-908 Allowance for Extra Work Due To Archaeological Discoveries.

AI. USE OF CITY WATER. Please refer to page 15 of NYCDOT STANDARD SPECIFICATIONS (August 1, 2015), VOLUME I OF II under GENERAL CONDITIONS, Sub Section 1.06.23: Rules, Laws, and Requirements; (A) PERMITS.

AJ. PUBLIC DISSEMINATION OF INFORMATION. The Contractor agrees to hold confidential, both during and after the completion or termination of this Contract, all of the reports, information, or data, furnished to, or prepared, assembled or used by, the Contractor under this Contract. The Contractor agrees to maintain the confidentiality of such reports, information, or data by using a reasonable degree of care, and using at least the same degree of care that the Contractor uses to preserve the confidentiality of its own confidential information. The Contractor

agrees that such reports, information, or data will not be made available to any person or entity without the prior written approval of the Commissioner. The obligation under this Section to hold reports, information or data confidential will not apply where the Contractor is legally required to disclose such reports, information or data by virtue of a subpoena, court order or otherwise ("disclosure demand"), provided that the Contractor complies with the following: (1) the Contractor will provide advance notice to the Commissioner, in writing or by e-mail, that it received a disclosure demand for such reports, information or data and (2) if requested by the Commissioner, the Contractor will not disclose such reports, information or data until the City has exhausted its legal rights, if any, to prevent disclosure of all or a portion of such reports, information, or data. The previous sentence will not apply if the Contractor is prohibited by law from disclosing to the City the disclosure demand for such reports, information or data.

The Contractor will restrict access to confidential information to persons who have a legitimate work-related purpose to access such information. The Contractor agrees that it will instruct its officers, employees, and agents to maintain the confidentiality of any and all information required to be kept confidential by this Contract.

The Contractor, and its officers, employees, and agents will notify the Commissioner, at any time either during or after completion or termination of this Contract, of any intended statement to the press or any intended issuing of any material for publication in any media of communication (print, news, television, radio, Internet, etc.) regarding the services provided or the data collected pursuant to this Contract at least twenty-four (24) hours prior to any statement to the press or at least five (5) business days prior to the submission of the material for publication, or such shorter periods as are reasonable under the circumstances. The Contractor may not issue any statement or submit any material for publication that includes confidential information as prohibited by this Section.

At the request of the Commissioner, the Contractor will return to the Commissioner any and all confidential information in the possession of the Contractor or its subcontractors. If the Contractor or its subcontractors are legally required to retain any confidential information, the Contractor will notify the Commissioner in writing and set forth the confidential information that it intends to retain and the reasons why it is legally required to retain such information. The Contractor will confer with the Commissioner, in good faith, regarding any issues that arise from the Contractor retaining such confidential information. If the Commissioner does not request such information, or the Law does not require otherwise, such information will be maintained in accordance with the requirements set forth in the Contract Documents.

AK. PRICES TO INCLUDE. No direct payment will be made for costs incurred in complying with the foregoing Special Provisions, unless otherwise provided. Said costs will be deemed to have been included in the prices bid for all the scheduled contract items.

Attachment 1: Pavement Markings Conversion Table

<i>Symbol</i>	<i>Area (in²)</i>	<i>Area (Feet²)</i>	<i>4" w Tape (LF)</i>	<i>Use (LF)</i>
STOP	3786	26.29	79.67	85
BUMP	5711	39.66	120.18	125
TAXI	3431	23.83	72.2	75
ONLY	3427	23.8	72.12	75
HUMP	5476	38.06	115.24	120
BUS	3628	25.19	76.33	80
SIGNAL	5658	39.29	119.07	125
YIELD	4563	31.69	96.03	100
AHEAD	5882	40.85	123.79	125
TAXI ONLY	6858	47.63	144.32	150
TAXI	3431	23.83	72.2	75
ONLY	3427	23.8	72.12	75
SCHOOL X-ING	11680	81.11	245.79	255
SCHOOL	5674	39.4	119.4	125
X-ING	6006	41.71	126.39	130
FINE LANE	8846	61.43	186.17	195
FIRE	4089	28.4	86.06	90
LANE	4757	33.03	100.11	105
KEEP AREA CLEAR	13726	95.32	288.84	305
KEEP	4205	29.2	88.49	95
AREA	4478	31.1	94.23	100
CLEAR	5043	35.02	106.12	110
TUNNEL ONLY	9204	63.92	193.69	200
TUNNEL	5767	40.05	121.36	125
ONLY	3437	23.87	72.33	75

<i>Symbol</i>	<i>Area (in²)</i>	<i>Area (Feet²)</i>	<i>4" w Tape (LF)</i>	<i>Use (LF)</i>
KEEP CLEAR	9248	64.22	194.61	205
KEEP	4205	29.2	88.49	95
CLEAR	5043	35.02	106.12	110
BICYCLE TRAIL	741	5.15	15.59	20
BICYCLE LANE	494	3.43	10.4	15
BIKE LANE ARROW	328	2.28	6.9	10
HOV LANE DIAMOND	1403	9.74	29.52	35
SKATER SYMBOL	539	3.74	11.34	15
PEDESTRIAN SYMBOL	980	6.81	20.62	25
<i>YIELD AHEAD TRIANGLE</i>				
45 MPH or GREATER	1315	9.13	27.67	30
LESS THAN 45 MPH	932	6.47	19.61	25
<i>YIELD LINE LAYOUT</i>				
LARGE (4)	432	3	9.1	40
SMALL (6)	108	0.75	2.27	18
STRAIGHT ONLY	1772	12.31	37.29	40
LEFT ONLY	2224	15.44	46.8	50
RIGHT ONLY	2224	15.44	46.8	50
STRAIGHT AND LEFT ONLY	4117	28.59	86.64	90
STRAIGHT AND RIGHT ONLY	4117	28.59	86.64	90
WRONG-WAY ARROW	4121	28.62	86.72	90
SPECIAL PAVEMENT ARROW	1837	12.76	38.66	40

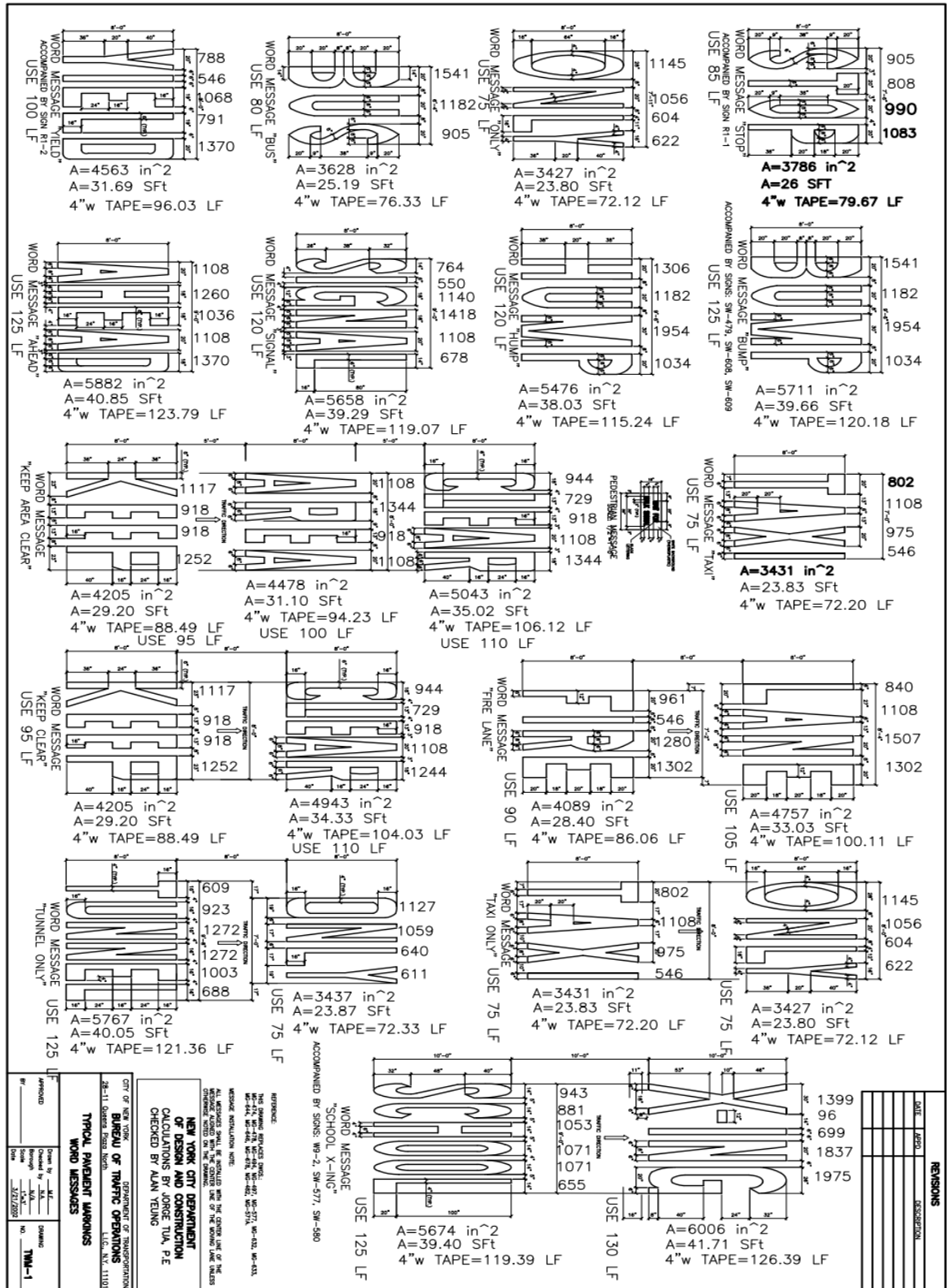
<i>Symbol</i>	<i>Area (in²)</i>	<i>Area (Feet²)</i>	<i>4" w Tape (LF)</i>	<i>Use (LF)</i>
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ELONGATED HIGHWAY
ARROWS

STRAIGHT AND LEFT ONLY	4580	31.81	96.38	100
STRAIGHT AND RIGHT ONLY	4580	31.81	96.38	100
STRAIGHT ONLY	1852	12.86	38.97	40

LEFT AND RIGHT ONLY	1783	12.38	37.52	40
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Attachment 2: Typical Pavement Markings



REVISIONS		DATE	DESCRIPTION

(B) HIGHWAY PROJECT SPECIFIC PROVISIONS**Department of Transportation**

POLLY TROTTENBERG, Commissioner

JANUARY 03, 2020

OCMC FILE NO: BNEC-19- 858
 PROJECT ID: HWK- 797W
 FOR THE CONSTRUCTION OF SEWER, WATER MAIN, STREET LIGHTING, AND TRAFFIC WORK TOGETHER WITH ALL
 WORK INCIDENTAL THERETO:
 LOCATION: BROOKLYN
 COMMUNITY BOARD: 5

PERMISSION IS HEREBY GRANTED TO THE **NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION** AND ITS DULY AUTHORIZED AGENT, TO ENTER UPON AND RESTRICT THE FLOW OF TRAFFIC AT THE ABOVE LOCATION AND ITS LOCAL ADJACENT STREETS FOR THE PURPOSE OF CARRYING OUT THE ABOVE NOTED PROJECT, SUBJECT TO THE STIPULATIONS, AS NOTED BELOW:

A. SPECIAL STIPULATIONS

1. **BUS STOPS** – THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO NYC DOT OCMC AND NEW YORK CITY TRANSIT (NYCT) A MINIMUM OF FIVE (5) WEEKS IN ADVANCE FOR LANE/STREET CLOSURES THAT AFFECT BUS ROUTES/BUS STOPS.
2. **METERS** – THE CONTRACTOR MAY NOT REMOVE OR RELOCATE PARKING METERS WITHOUT FIRST OBTAINING APPROVAL FROM NYCDOT PARKING METER DIVISION AT 718 – 894 – 8651.
3. **ACCESS TO ABUTTING PROPERTIES** – THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH ABUTTING PROPERTY OWNERS TO ENSURE ACCESS IS PROVIDED TO/FROM ENTRANCES/DRIVEWAYS AT ALL TIMES.
4. **NOTIFICATION** – THE CONTRACTOR MUST AT LEAST TWO (2) WORKING DAYS BEFORE THE START OF CONSTRUCTION NOTIFY THE NYC FIRE DEPARTMENT, NYC POLICE DEPARTMENT, NYCEMS, LOCAL COMMUNITY BOARD, BOROUGH PRESIDENT'S OFFICE-CHIEF ENGINEER, NYCDOT OCMC OFFICE, AND ALL ABUTTING PROPERTY OWNERS.
5. **ENHANCED MITIGATIONS**
6. **EMBARGOES** – A CONSTRUCTION EMBARGO WILL APPLY TO THOSE LOCATIONS BELOW WHICH FALL WITHIN THE **HOLIDAY EMBARGO** OR ANY OTHER SPECIAL EVENT EMBARGOES AS PUBLISHED BY THE BUREAU OF PERMIT MANAGEMENT AND CONSTRUCTION CONTROL.
 - o **ENHANCED MITIGATIONS PEDESTRIAN FLOW** INCLUDING METAL FENCING, SHALL BE PROVIDED TO ENSURE PEDESTRIAN STAY WITHIN THEIR DESIGNATED PATH/ROUTE. FLAGGERS SHALL BE PROVIDED TO ASSIST WITH PEDESTRIANS AT THE DESIGNATED CROSSWALK AREAS. THESE FLAGGERS SHALL BE ASSIGNED TO THIS FUNCTION ONLY.
 - o **"NO STANDING ANYTIME-TEMPORARY CONSTRUCTION" SIGNS** AND TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AND MAINTAINED AS WARRANTED BY THE MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) REQUIRED TO FACILITATE TRAFFIC MOVEMENTS THROUGH THE WORK ZONE. ALL TEMPORARY SIGNS AND PAVEMENT MARKINGS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
 - o **COMMUNITY OUTREACH** SHALL BE PROVIDED FOR THE DURATION OF THE PROJECT.

B. MAINTENANCE AND PROTECTION OF TRAFFIC**SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE**

- Work hours shall be as follows: 7:00 AM to 6PM Monday to Friday and Saturday 8AM to 4PM.
- Flag person must be provided to stop pedestrian and /or vehicle traffic while lifting materials overhead and also when crossing sidewalk in conjunction with crossing sidewalk permits.
- The contractor shall maintain one 11 foot lane for traffic.
- Full width of the roadway shall be opened to traffic when site is unattended.
- The contractor shall occupy 8 foot width of the roadway adjacent to the east or west curb line.
- The contractor shall maintain 5 foot clear sidewalk or 5 foot clear pedestrian walkway in roadway. Walkway must meet NYCDOT specifications. Walkway must be ramped at entry to sidewalk for handicapped accessibility.

SCHENCK AVENUE FROM STANLEY AVENUE TO WORTMAN AVENUE

- Work hours shall be as follows: 7:00 AM to 6PM Monday to Friday and Saturday 8AM to 4PM.
- Flag person must be provided to stop pedestrian and /or vehicle traffic while lifting materials overhead and also when crossing sidewalk in conjunction with crossing sidewalk permits.
- The contractor shall maintain two lanes for traffic, one lane in each direction.
- Full width of the roadway shall be opened to traffic when site is unattended.
- The contractor shall occupy 8 foot width of the roadway adjacent to the east or west curb line.
- The contractor shall maintain 5 foot clear sidewalk or 5 foot clear pedestrian walkway in roadway. Walkway must meet NYCDOT specifications. Walkway must be ramped at entry to sidewalk for handicapped accessibility.

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OCMC FILE NO: BNEC-19-858
 PROJECT ID: HWK-797W
 FOR THE CONSTRUCTION OF SEWER, WATER MAIN, STREET LIGHTING, AND TRAFFIC WORK TOGETHER WITH ALL
 WORK INCIDENTAL THERETO:
 LOCATION: BROOKLYN
 COMMUNITY BOARD: 5

SCHENCK AVENUE FROM WORTMAN AVENUE TO COZINE AVENUE

- Work hours shall be as follows: 7:00 AM to 6PM Monday to Friday and Saturday 8AM to 4PM.
- Flag person must be provided to stop pedestrian and /or vehicle traffic while lifting materials overhead and also when crossing sidewalk in conjunction with crossing sidewalk permits.
- The contractor shall maintain two lanes for traffic, one lane in each direction.
- Full width of the roadway shall be opened to traffic when site is unattended.
- The contractor shall occupy 8 foot width of the roadway adjacent to the east or west curb line.
- The contractor shall maintain 5 foot clear sidewalk or 5 foot clear pedestrian walkway in roadway. Walkway must meet NYCDOT specifications. Walkway must be ramped at entry to sidewalk for handicapped accessibility.

BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET

- Work hours shall be as follows: 7:00 AM to 6PM Monday to Friday and Saturday 8AM to 4PM.
- Flag person must be provided to stop pedestrian and /or vehicle traffic while lifting materials overhead and also when crossing sidewalk in conjunction with crossing sidewalk permits.
- The contractor shall maintain one 11 foot lane for traffic.
- Full width of the roadway shall be opened to traffic when site is unattended.
- The contractor shall occupy 8 foot width of the roadway adjacent to the east or west curb line.
- The contractor shall maintain 5 foot clear sidewalk or 5 foot clear pedestrian walkway in roadway. Walkway must meet NYCDOT specifications. Walkway must be ramped at entry to sidewalk for handicapped accessibility.

SCHENCK AVENUE FROM HEGEMAN AVENUE TO STANLEY AVENUE

- Work hours shall be as follows: 7:00 AM to 6PM Monday to Friday and Saturday 8AM to 4PM.
- Flag person must be provided to stop pedestrian and /or vehicle traffic while lifting materials overhead and also when crossing sidewalk in conjunction with crossing sidewalk permits.
- The contractor shall maintain one 11 foot lane for traffic.
- Full width of the roadway shall be opened to traffic when site is unattended.
- The contractor shall occupy 8 foot width of the roadway adjacent to the east or west curb line.
- The contractor shall maintain 5 foot clear sidewalk or 5 foot clear pedestrian walkway in roadway. Walkway must meet NYCDOT specifications. Walkway must be ramped at entry to sidewalk for handicapped accessibility.

THIS IS NOT A PERMIT. THIS STIPULATION SHEET MUST BE SUBMITTED WITH ALL REQUESTS FOR PERMITS PERTAINING TO THE ABOVE CONTRACT AND PRESENT AT THE WORK SITE ALONG WITH ALL ACTIVE CONSTRUCTION PERMITS WHEN THE APPROVED WORK IS BEING PERFORMED.


1. ALL RELOCATION WORK BY THE UTILITIES SUCH AS; CON EDISON, TELEPHONE, GAS AND CABLE COMPANIES SHALL PRECEDE THE CONTRACTORS' START OF WORK ON ALL AFFECTED ROADWAYS IN THE IMPACTED CONTRACT AREA.
2. THE CONTRACTOR IS ADVISED THAT OTHER CONTRACTORS MAY BE WORKING IN THE GENERAL AREA DURING THE TERM OF THIS STIPULATION. IN WHICH EVENT, THE CONTRACTOR MAY REQUIRE MODIFICATIONS BY THE OCMC-STREETS.
3. THE PERMITTEE IS NOT AUTHORIZED TO ENTER, OCCUPY OR USE ANY PUBLICLY-OWNED OR PRIVATELY OWNED, NON-PAVED, LANDSCAPE OR NON-LANDSCAPED LOCATION WITHOUT SPECIFIC WRITTEN PERMISSION. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF A LIMITED-ACCESS ARTERIAL HIGHWAY, **WRITTEN** APPROVAL FROM THE NYCDOT OCMC-HIGHWAYS IS REQUIRED. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR PUBLIC PARK, **WRITTEN** APPROVAL FROM THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION OR NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION IS REQUIRED. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF ANY OTHER JURISDICTION SUCH AS PRIVATE PROPERTY, STATE, FEDERAL ETC., IT IS THE PERMITTEE'S RESPONSIBILITY TO DETERMINE THE PROPERTY OWNER AND OBTAIN THE WRITTEN APPROVAL.
4. THE PERMITTEE SHALL ADHERE TO THE NYCDOT BUREAU OF BRIDGES' SPECIAL PROVISIONS FOR LANDSCAPE PROTECTION, MAINTENANCE AND RESTORATION, ITEMS 1.18.15 THROUGH 1.18.19, WHENEVER AND WHEREVER ANY OF THE PERMITTEE'S ACTIVITIES OCCUR WITHIN A LIMITED ACCESS ARTERIAL HIGHWAY RIGHT - OF - WAY.
5. NO DEVIATION OR DEPARTURE FROM THESE STIPULATIONS WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE OCMC-STREETS. REQUEST FOR SUCH MODIFICATIONS SHALL BE SUBMITTED TO THE OFFICE OF THE OCMC-STREETS, NEW YORK CITY DEPARTMENT OF TRANSPORTATION, A MINIMUM OF TWENTY (20) DAYS IN ADVANCE FOR CONSIDERATION.
6. FOR THIS PROJECT THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY ADVANCE WARNING AND DETOUR SIGNS, TEMPORARY CONTROL DEVICES, BARRICADES, LIGHTS AND FLASHING ARROW BOARDS IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," THE TYPICAL SCHEMES INCLUDED IN THIS SPECIFICATION; AND AS ORDERED BY THE ENGINEER-IN-CHARGE AND THE OCMC-STREETS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING HIS CONSTRUCTION SIGNAGE. THE IDENTIFICATION SHALL INCLUDE THE CONTRACTOR'S NAME, SPONSORING AGENCY NAME AND THE CONTRACT NUMBER. THE IDENTIFICATION SHALL BE PLACED ON THE BACK OF THE SIGN. THE LETTERING SHALL BE THREE (3) INCHES HIGH.
8. THE OCMC-STREETS RESERVES THE RIGHT TO VOID OR MODIFY THESE STIPULATIONS SHOULD CONSTRUCTION FAIL TO COMMENCE WITHIN TWO (2) YEARS OF THE SIGNED DATE OF THESE STIPULATIONS.

01/03/20

Page 3 of 3

OCMC FILE NO: BNEC-19-858
PROJECT ID: HWK-797W
FOR THE CONSTRUCTION OF SEWER, WATER MAIN, STREET LIGHTING, AND TRAFFIC WORK TOGETHER WITH ALL
WORK INCIDENTAL THERETO:
LOCATION BROOKLYN
COMMUNITY BOARD 5

9. THE CONTRACTOR MUST COMPLY WITH ALL CONSTRUCTION EMBARGOS ISSUED BY THE NYCDOT INCLUDING THE HOLIDAY EMBARGO.


GARY SMALLS

DIRECTOR
OCMC STREETS


DANIEL PRINCIPALI
PROJECT MANAGER
OCMC-STREETS

(C) SEWER & WATER MAIN PROJECT SPECIFIC PROVISIONS

(NO TEXT)

(D) GREEN INFRASTRUCTURE PROVISIONS

INTENT. In order to meet the DEC Consent Order Goals for 2025, the contractor is expected to “complete” the GI practices set forth in this contract within the contract duration. The completed GI practices must provide volumetric control and stormwater storage. The Contractor’s attention is directed particularly to Schedule A and to the detailed Specifications.

GI-A CONTRACT DRAWINGS. In addition to the drawings contained herein these Special Provisions, the Contract Drawings must include, but are not limited to, the following:

*NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BEPA – GREEN INFRASTRUCTURE DESIGN & CONSTRUCTION
STANDARD DESIGNS AND GUIDELINES FOR GREEN INFRASTRUCTURE PRACTICES*

Available on-line at:

<https://www1.nyc.gov/assets/dep/downloads/pdf/water/stormwater/green-infrastructure/green-infrastructure-standard-designs.pdf>

GI-B. DEFINITION. The Contractor is referred to NYC Department of Environmental Protection Bureau of Engineering Design and Construction - Green Infrastructure’s latest *Standard Designs and Guidelines for Green Infrastructure Practices*, the specifications and contract drawings for more detail.

NYC ROW GI SITING CRITERIA can be found:

<https://www1.nyc.gov/assets/dep/downloads/pdf/water/stormwater/green-infrastructure/green-infrastructure-siting-criteria.pdf>

GI-C. MINIMUM QUALIFICATIONS OF CONTRACTOR/SUBCONTRACTOR. The Contractor and/or its proposed subcontractor must have performed at least two (2) contracts in the past seven (7) years that involved the construction of the various DEP’s Green Infrastructure practices.

To support the Contractor’s contention that it, or its proposed subcontractor are qualified to perform the work involving the installation of Green Infrastructure practices, the Contractor must provide the following information in a Statement of Qualifications with their bid:

Provide specific details on projects (i.e. location, size, cost, client, etc.). Provide client contact person’s name and telephone number. Describe any problems encountered during construction and corrective action taken to remedy the problem. How were the violations resolved? Provide chronological photos recording the progress from preconstruction through completion. Include any required signoffs from client.

GI-D. WORK TO PROCEED WITH DILIGENCE AND DISPATCH. Timely completion of the Work of this Contract is critical to the completion of the milestone established in Schedule A. A completed GI Practice is defined as completion of all required elements of the GI practice except for the Steel Tree Guard and Plantings.

GI-E. LINES AND GRADES. Where new curbs and sidewalks are designated to be constructed in locations where they do not currently exist, the Contractor will be required to establish lines and grades and stake out and layout the work for installing the new sidewalks and malls, as per Section 6.41 of the Standard Highway Specifications.

In addition, at the completion of the work the Contractor must survey the entire area of new construction, to provide the Engineer with as-built locations and elevations at the top and bottom of the curbs, at the end of construction, at all street hardware, and breaks in grades.

Unless indicated otherwise, elevations indicated or specified refer to the North America Vertical Datum of 1988 (NAVD 88) for vertical data.

Unless indicated otherwise, coordinates indicated or specified refer to the North American Datum (NAD 83) State Plane New York, Long Island FIPS 3104 Feet for horizontal data.

In addition, the Contractor will be required to do the following:

- a) The Contractor must retain the services of a New York State Licensed Land Surveyor for the purposes of establishing the location of R.O.W. Bioswales, R.O.W. Rain Gardens, R.O.W. Greenstrips, R.O.W. Infiltration Basins and R.O.W. Stormwater Greenstreets before construction and establishing the final constructed location (As-Built) coordinates as referenced in Section GI-R-1.13.
- b) Lines and grades. All work will be constructed according to the lines and grades shown on the Contract Drawings and as approved by the Engineer.
- c) The Engineer will establish a base line and benchmark.
- d) The Contractor must establish all other lines, elevations and grades required for the work and be solely responsible for the accuracy thereof.
- e) The Contractor must install a Survey Nail at the upstream corner of every Green Infrastructure Practice constructed. The Survey Nail shall be placed in the center of the curb, lined up with the edge of the header. The Survey Nail shall be used to establish the final coordinates of the Green Infrastructure Practice (Northing and Easting).
- f) The Engineer must be notified prior to the establishment of any line, elevation or grade.
- g) Safeguarding marks. The Contractor must safeguard all points, stakes, grade marks, monuments, and benchmarks made or established on the work, re-establish same if disturbed and bear the entire expense of rectifying work improperly installed due to not maintaining, not protecting or removing without authorization such established points, stakes, marks, and monuments.

GI-F. CITY-OWNED STREET HARDWARE ADJUSTMENTS IN SIDEWALK AREAS. Where adjustment of street hardware, such as manholes, valve boxes, box covers, monuments, etc., is required in the sidewalk to facilitate Green Infrastructure practice work, payment is deemed included in the prices bid for all scheduled contract items where the vertical movement is less than or equal to 6" down, or where the vertical movement is less than or equal to 12" upward. However, where the vertical movement of street hardware is more than 6" downward or more than 12" upward, then the adjustment work will be paid for under Item 6.36 DR.

Vertical adjustment of each installation and resetting the castings shall consist of: removing the existing frame and cover, and granite slab where applicable; modifying the existing installation as required; replacing the frame and/or cover if damaged, as determined by the Engineer, with a new frame and/or cover furnished under Item 6.22 F; resetting granite slab where applicable; and, setting the frame and cover to the new sidewalk elevation and slope.

Materials used shall comply with the Department's Sewer Standards for drainage installations, and the appropriate Department having jurisdiction over other installations.

Resetting castings will be done with brick and mortar according to the standards of the Department of Environmental Protection or the appropriate Department having jurisdiction over the installation. Work shall be done in a workmanlike manner, and any damage resulting from the Contractor's operations, to the existing installation, which is to remain, shall be satisfactorily corrected, as directed by the Engineer, at the Contractor's own expense and at no additional cost to the City. Removed and damaged sidewalk shall be replaced in kind.

GI-G. CLEANING OF DRAINAGE STRUCTURES. The Contractor must be required to keep all existing drainage structures within the work area clean and operable at all times. Should the Contractor let debris enter any drainage structure as a result of its operations, it shall be required to immediately clean that drainage structure at its own expense. All other drainage structures requiring cleaning shall be referred to the Department of Environmental Protection.

GI-H. COMPACTION TESTING OF SIDEWALK FOUNDATION MATERIAL. The Contractor is required to spot test to verify that their method of compacting the sidewalk foundation material, achieves the required density.

The test shall be conducted by a properly calibrated Nuclear Testing Device. The operator shall be a technician certified in its operation, as approved by the Engineer. Three spot tests will be required at each Green Infrastructure practice, unless a test result indicates that the minimum compaction was not achieved, in which case additional testing may be required by the Engineer.

A copy of all nuclear density monitoring results including date, time, location by distance and offset, from building line or curb line, and the theoretical maximum density reading, and any pertinent remarks is to be delivered to the Engineer the same day.

GI-I. PRICES TO INCLUDE. No direct payment will be made for costs incurred in complying with the foregoing Special Provisions, unless otherwise provided. Said costs will be deemed to have been included in the prices bid for all the scheduled contract items.

OCMC STIPULATIONS



Department of Transportation

JANETTE SADIK-KHAN, Commissioner

OCMC TRAFFIC STIPULATIONS

November 21, 2013

OCMC FILE NO: CEC-13-533
 CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
 PROJECT: BIOSWALE INSTALLATION, CITYWIDE
 LOCATION(S): VARIOUS, CITYWIDE

PERMISSION IS HEREBY GRANTED TO ENTER UPON AND RESTRICT THE FLOW OF TRAFFIC AT THE ABOVE LOCATION AND ITS LOCAL ADJACENT STREETS FOR THE PURPOSE OF CARRYING OUT THE ABOVE NOTED PROJECT, SUBJECT TO THE STIPULATIONS, AS NOTED BELOW:

A. SPECIAL STIPULATIONS

1. **EMBARGOES** – A CONSTRUCTION EMBARGO WILL APPLY TO THOSE LOCATIONS BELOW WHICH FALL WITHIN THE **HOLIDAY EMBARGO** OR ANY OTHER SPECIAL EVENT EMBARGOES AS PUBLISHED BY THE BUREAU OF PERMIT MANAGEMENT AND CONSTRUCTION CONTROL.
2. **BIKE LANES** – IF WORK IS IN OR AFFECTING A BIKE LANE, THE CONTRACTOR MUST POST ADVANCE WARNING SIGNS 350 FEET AND 200 FEET PRIOR TO THE WORK ZONE STATING "CONSTRUCTION IN BIKE LANE AHEAD PROCEED WITH CAUTION", AND ALSO POST A SIGN AT THE WORK ZONE STATING "CONSTRUCTION IN BIKE LANE PROCEED WITH CAUTION". SUCH SIGNS SHALL BE ORANGE, 3' X 3', DIAMOND-SHAPED WITH 4" BLACK LETTERING. SIGNS SHALL BE POSTED IN ACCORDANCE WITH THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. **BIKE SHARE STATIONS**: THE PERMITTEE SHALL NOT REMOVE, RELOCATE, DAMAGE OR DISRUPT THE OPERATION OF EXISTING BIKE SHARE STATIONS WITHOUT FIRST CONTACTING NYC BIKE SHARE AT 855-245-3311 FOR THEIR REQUIREMENTS PRIOR TO COMMENCING WORK.
4. **BUS STOPS** – THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO NYC DOT OCMC AND NEW YORK CITY TRANSIT (NYCT) A MINIMUM OF FIVE (5) WEEKS IN ADVANCE FOR LANE/STREET CLOSURES THAT AFFECT BUS ROUTES/BUS STOPS.
5. **STREET LIGHTS / TRAFFIC SIGNALS**: THE PERMITTEE SHALL NOT REMOVE OR RELOCATE EXISTING STREET LIGHTS OR TRAFFIC SIGNALS WITHOUT FIRST OBTAINING APPROVAL FROM NYCDOT STREET LIGHTING / TRAFFIC SIGNALS UNIT.
6. **TRAFFIC CAMERAS, DETECTION/COMMUNICATION EQUIPMENT**: IF AT ANY TIME DURING THE APPROVED WORK, THE PERMITTEE ENCOUNTERS TRAFFIC SURVEILLANCE CAMERAS, DETECTION EQUIPMENT OR ANY TYPE OF COMMUNICATION EQUIPMENT (WIRELESS OR HARD-WIRED) ON ANY NYC DOT FACILITY, THAT IS NOT INCLUDED ON THE DESIGN/BUILD DRAWINGS, THE PERMITTEE SHALL IMMEDIATELY NOTIFY NYC DOT TRAFFIC MANAGEMENT BY PHONE AT 718-433-3390 OR 718-433-3340 AND VIA EMAIL AT TMC@DOT.NYC.GOV AND AWAIT DIRECTION PRIOR TO CONTINUING WORK.
7. **METERS** – THE PERMITTEE SHALL NOT REMOVE OR RELOCATE PARKING METERS WITHOUT FIRST OBTAINING APPROVAL FROM NYCDOT PARKING METER DIVISION AT 718-894-8651.
8. **TEST PITS** – THE BELOW TRAFFIC STIPULATIONS DO NOT APPLY TO TEST PIT WORK RELATED TO THIS CONTRACT. WORK HOURS AND OTHER REQUIREMENTS FOR TEST PIT OPERATIONS MAY DIFFER FROM THE STIPULATIONS IDENTIFIED BELOW. THE PERMITTEE SHALL BE REQUIRED TO OBTAIN SEPARATE PERMITS RELATED TO TEST PITS.
9. **ACCESS TO ABUTTING PROPERTIES** – THE PERMITTEE SHALL COORDINATE ALL ACTIVITIES WITH ABUTTING PROPERTY OWNERS TO ENSURE ACCESS IS PROVIDED TO/FROM ENTRANCES/DRIVEWAYS AT ALL TIMES.
10. **AUTHORIZED PARKING** – PRIOR TO PERFORMING WORK WHICH IMPACTS AUTHORIZED PARKING, THE PERMITTEE SHALL SUBMIT IN WRITING, AND COPY OCMC-STREETS, A REQUEST TO OCCUPY SPACE CURRENTLY USED BY AUTHORIZED VEHICLES. APPROVAL MUST BE RECEIVED FROM AUTHORIZED PARKING PRIOR TO OCCUPYING THESE AREAS.
11. **NOTIFICATION** – THE PERMITTEE MUST AT LEAST TWO (2) WORKING DAYS BEFORE THE START OF CONSTRUCTION NOTIFY THE NYC FIRE DEPARTMENT, NYC POLICE DEPARTMENT, NYC EMS, LOCAL COMMUNITY BOARD, BOROUGH PRESIDENT'S OFFICE-CHIEF ENGINEER, NYCDOT OCMC OFFICE, AND ALL ABUTTING PROPERTY OWNERS.
12. **STIPULATION CHANGES** – IF ANY OF THESE REQUIREMENTS, INCLUDING THE REQUIREMENTS LISTED BELOW, CANNOT BE MET, A REQUEST FOR MODIFICATIONS SHALL BE SUBMITTED IN WRITING TO OCMC-STREETS BY THE ENGINEER-IN-CHARGE FOR THE AGENCY PERFORMING THE WORK TO DETERMINE THE APPROPRIATE MAINTENANCE AND PROTECTION OF TRAFFIC.

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November 21, 2013
Page 2 of 3

OCMC FILE NO: BNEC-13-533
 CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
 PROJECT: VARIOUS, CITYWIDE

B. MAINTENANCE AND PROTECTION OF TRAFFIC

DEFINITION: For the purposes of this traffic stipulation sheet, the term "Critical Roadways" shall pertain to those roadways listed in the NYCDOT Highway Rules, where work restrictions apply during specific hours of the day.

NON-CRITICAL ROADWAYS**ROADWAYS UP TO 44 FEET IN WIDTH:**

- Working hours shall be as follows: 7:00 AM to 6:00 PM, Monday to Friday (9:00 AM to 2:00 PM, Monday to Friday if working within a school zone) and 8:00 AM to 4:00 PM Saturday.
- Should "No Standing" rush hour regulations apply adjacent to/or opposite the construction zone, work is restricted during the hours specified on the posted regulation. *OCMC-Streets should be contacted in writing by the engineer-in-charge only if they are requesting a waiver and consideration to work during the restricted hours.*
- A school variance (VAR001) is granted to work during school hours as stipulated by OCMC-Streets. The contractor must notify the school principal in writing 48 hours prior to beginning any work.
- During work hours, the contractor shall fully close the sidewalk and post signs meeting NYCDOT specifications for directing pedestrians to the opposite sidewalk.
- During working hours, the contractor shall maintain one 11-foot lane for traffic on one-way streets, and two 11-foot lanes for traffic, (one 11-foot lane in each direction) on two-way streets.
- After working hours, the contractor shall maintain either a minimum 5-foot clear sidewalk or a 5-foot protected pedestrian walkway in the roadway adjacent the work zone for pedestrians. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited. If a pedestrian walkway in the roadway is used, it shall be ramped at entry for handicapped access. All crosswalks must be opened to pedestrians.
- The contractor shall not work on opposite sidewalks/curbs simultaneously.

ROADWAYS 45 FEET OR GREATER IN WIDTH:

- Working hours shall be as follows: 7:00 AM to 6:00 PM, Monday to Friday (9:00 AM to 2:00 PM, Monday to Friday if working within a school zone) and 8:00 AM to 4:00 PM Saturday.
- Should "No Standing" rush hour regulations apply adjacent to/or opposite the construction zone, work is restricted during the hours specified on the posted regulation. *OCMC-Streets should be contacted in writing by the engineer-in-charge only if they are requesting a waiver and consideration to work during the restricted hours.*
- A school variance (VAR001) is granted to work during school hours as stipulated by OCMC-Streets. The contractor must notify the school principal in writing 48 hours prior to beginning any work.
- The contractor shall maintain either a minimum 5-foot clear sidewalk or a 5-foot protected pedestrian walkway in the roadway adjacent the work zone for pedestrians. The pedestrian walkway shall be ramped at entry for handicapped access. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited.
- During working hours, the contractor shall occupy 11-feet of the roadway adjacent to the curb, including the pedestrian walkway, while maintaining one 11-foot lane for traffic on one way streets and two 11-foot lanes for traffic (one 11-foot lane in each direction) on two-way streets.
- After working hours, the contractor may occupy 8-feet adjacent to curb, including the pedestrian walkway, and all crosswalks must be opened to pedestrians. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited.
- The contractor shall not work on opposite sidewalks/curbs simultaneously.

CRITICAL ROADWAYS

NOTE: on some critical roadways with high pedestrian/vehicular volumes (e.g. Times Square, Downtown Brooklyn, Queensboro Plaza) OCMC-Streets reserves the right to determine the appropriate maintenance and protection of traffic in consultation with the engineer-in-charge for the agency performing the work. In these locations, the stipulations identified in CEC-13-533 may not be used.

- Working hours shall be as follows: 9:00 AM to 4:00 PM, Monday to Friday (9:00 AM to 2:00 PM, Monday to Friday if working within a school zone) and 8:00 AM to 4:00 PM Saturday.
- Should "No Standing" rush hour regulations apply adjacent to/or opposite the construction zone, work is restricted during the hours specified on the posted regulation. *OCMC-Streets should be contacted in writing by the engineer-in-charge only if they are requesting a waiver and consideration to work during the restricted hours.*
- The contractor shall maintain either a minimum 5-foot clear sidewalk or a 5-foot protected pedestrian walkway in the roadway adjacent the work zone for pedestrians. The pedestrian walkway shall be ramped at entry for handicapped access. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited.
- During working hours, the contractor shall occupy 11-feet of the roadway adjacent to the curb, including the pedestrian walkway, while maintaining one 11-foot lane for traffic on one way streets and two 11-foot lanes for traffic (one 11-foot lane in each direction) on two-way streets.

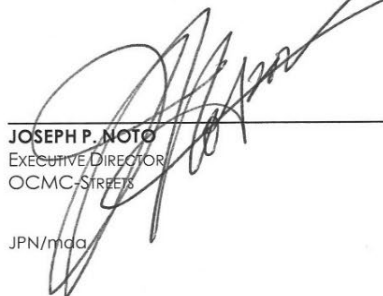
November 21, 2013
Page 3 of 3

OCMC FILE NO: BNEC-13-533
CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
PROJECT: VARIOUS, CITYWIDE

- After working hours, the contractor may occupy 8-feet adjacent to curb, including the pedestrian walkway, and all crosswalks must be opened to pedestrians. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited.
- The contractor shall not work on opposite sidewalks/curbs simultaneously.

C. GENERAL NOTES

1. **THIS IS NOT A PERMIT.** THIS STIPULATION SHEET MUST BE SUBMITTED WITH ALL REQUESTS FOR PERMITS PERTAINING TO THE ABOVE CONTRACT AND PRESENT AT THE WORK SITE ALONG WITH ALL ACTIVE CONSTRUCTION PERMITS WHEN THE APPROVED WORK IS BEING PERFORMED.
2. ALL RELOCATION WORK BY THE UTILITIES SUCH AS; CON EDISON, TELEPHONE, GAS AND CABLE COMPANIES SHALL PRECEDE THE CONTRACTORS' START OF WORK ON ALL AFFECTED ROADWAYS IN THE IMPACTED CONTRACT AREA.
3. THE CONTRACTOR IS ADVISED THAT OTHER CONTRACTORS MAY BE WORKING IN THE GENERAL AREA DURING THE TERM OF THIS STIPULATION. IN WHICH EVENT, THE CONTRACTOR MAY REQUIRE MODIFICATIONS BY THE OCMC-STREETS.
4. THE PERMITTEE IS NOT AUTHORIZED TO ENTER, OCCUPY OR USE ANY PUBLICLY-OWNED OR PRIVATELY OWNED, NON-PAVED, LANDSCAPE OR NON-LANDSCAPED LOCATION WITHOUT SPECIFIC WRITTEN PERMISSION. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF A LIMITED-ACCESS ARTERIAL HIGHWAY, **WRITTEN** APPROVAL FROM THE NYCDOT OCMC-HIGHWAYS IS REQUIRED. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR PUBLIC PARK, **WRITTEN** APPROVAL FROM THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION OR NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION IS REQUIRED. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF ANY OTHER JURISDICTION SUCH AS PRIVATE PROPERTY, STATE, FEDERAL ETC., IT IS THE PERMITTEE'S RESPONSIBILITY TO DETERMINE THE PROPERTY OWNER AND OBTAIN THE WRITTEN APPROVAL.
5. THE PERMITTEE SHALL ADHERE TO THE NYCDOT BUREAU OF BRIDGES' SPECIAL PROVISIONS FOR LANDSCAPE PROTECTION, MAINTENANCE AND RESTORATION, ITEMS 1.18.15 THROUGH 1.18.19, WHENEVER AND WHEREVER ANY OF THE PERMITTEE'S ACTIVITIES OCCUR WITHIN A LIMITED ACCESS ARTERIAL HIGHWAY RIGHT - OF - WAY.
6. NO DEVIATION OR DEPARTURE FROM THESE STIPULATIONS WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE OCMC-STREETS. REQUEST FOR SUCH MODIFICATIONS SHALL BE SUBMITTED TO THE OFFICE OF THE OCMC-STREETS, NEW YORK CITY DEPARTMENT OF TRANSPORTATION, A MINIMUM OF TWENTY (20) DAYS IN ADVANCE FOR CONSIDERATION.
7. FOR THIS PROJECT THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY ADVANCE WARNING AND DETOUR SIGNS, TEMPORARY CONTROL DEVICES, BARRICADES, LIGHTS AND FLASHING ARROW BOARDS IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," THE TYPICAL SCHEMES INCLUDED IN THIS SPECIFICATION; AND AS ORDERED BY THE ENGINEER-IN-CHARGE AND THE OCMC-STREETS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING HIS CONSTRUCTION SIGNAGE. THE IDENTIFICATION SHALL INCLUDE THE CONTRACTOR'S NAME, SPONSORING AGENCY NAME AND THE CONTRACT NUMBER. THE IDENTIFICATION SHALL BE PLACED ON THE BACK OF THE SIGN. THE LETTERING SHALL BE THREE (3) INCHES HIGH.
9. THE OCMC-STREETS RESERVES THE RIGHT TO VOID OR MODIFY THESE STIPULATIONS SHOULD CONSTRUCTION FAIL TO COMMENCE WITHIN TWO (2) YEARS OF THE SIGNED DATE OF THESE STIPULATIONS.
10. THE CONTRACTOR MUST COMPLY WITH ALL CONSTRUCTION EMBARGOS ISSUED BY THE NYCDOT INCLUDING THE HOLIDAY EMBARGO.


JOSEPH P. NOTO
EXECUTIVE DIRECTOR
OCMC-STREETS

JPN/mda



Department of Transportation

POLLY TROTTEBERG, Commissioner

OCMC TRAFFIC STIPULATIONS - AMENDMENT # 1

SEPTEMBER 12, 2014

OCMC FILE NO: CEC-13-533
 CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
 PROJECT: BIOSWALE INSTALLATION, CITYWIDE

LOCATION(S): VARIOUS, CITYWIDE

STIPULATIONS ORIGINALLY DATED **November 21, 2013** GRANTING PERMISSION TO ENTER UPON AND RESTRICT THE FLOW OF TRAFFIC AT THE ABOVE LOCATION AND ITS LOCAL ADJACENT STREETS FOR THE PURPOSE OF CARRYING OUT THE ABOVE NOTED PROJECT, IS HEREBY AMENDED AS FOLLOWS:

A. SPECIAL STIPULATIONS

1. **EMBARGOES** – A CONSTRUCTION EMBARGO WILL APPLY TO THOSE LOCATIONS BELOW WHICH FALL WITHIN THE **HOLIDAY EMBARGO** OR ANY OTHER SPECIAL EVENT EMBARGOES AS PUBLISHED BY THE BUREAU OF PERMIT MANAGEMENT AND CONSTRUCTION CONTROL.
2. **BIKE LANES** – IF WORK IS IN OR AFFECTING A BIKE LANE, THE PERMITTEE MUST POST ADVANCE WARNING SIGNS 350 FEET AND 200 FEET PRIOR TO THE WORK ZONE STATING "CONSTRUCTION IN BIKE LANE AHEAD PROCEED WITH CAUTION", AND ALSO POST A SIGN AT THE WORK ZONE STATING "CONSTRUCTION IN BIKE LANE PROCEED WITH CAUTION". SUCH SIGNS SHALL BE ORANGE, 3' X 3', DIAMOND-SHAPED WITH 4" BLACK LETTERING. SIGNS SHALL BE POSTED IN ACCORDANCE WITH THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. **BIKE SHARE STATIONS**: THE PERMITTEE SHALL NOT REMOVE, RELOCATE, DAMAGE OR DISRUPT THE OPERATION OF EXISTING BIKE SHARE STATIONS WITHOUT FIRST CONTACTING NYC BIKE SHARE AT 855-245-3311 FOR THEIR REQUIREMENTS PRIOR TO COMMENCING WORK.
4. **BUS STOPS** – THE PERMITTEE SHALL PROVIDE WRITTEN NOTICE TO NYC DOT OCMC AND NEW YORK CITY TRANSIT (NYCT) A MINIMUM OF FIVE (5) WEEKS IN ADVANCE FOR LANE/STREET CLOSURES THAT AFFECT BUS ROUTES/BUS STOPS.
5. **STREET LIGHTS / TRAFFIC SIGNALS**: THE PERMITTEE SHALL NOT REMOVE OR RELOCATE EXISTING STREET LIGHTS OR TRAFFIC SIGNALS WITHOUT FIRST OBTAINING APPROVAL FROM NYCDOT STREET LIGHTING / TRAFFIC SIGNALS UNIT.
6. **TRAFFIC CAMERAS, DETECTION/COMMUNICATION EQUIPMENT**: IF AT ANY TIME DURING THE APPROVED WORK, THE PERMITTEE ENCOUNTERS TRAFFIC SURVEILLANCE CAMERAS, DETECTION EQUIPMENT OR ANY TYPE OF COMMUNICATION EQUIPMENT (WIRELESS OR HARD-WIRED) ON ANY NYC DOT FACILITY, THAT IS NOT INCLUDED ON THE DESIGN/BUILD DRAWINGS, THE PERMITTEE SHALL IMMEDIATELY NOTIFY NYC DOT TRAFFIC MANAGEMENT BY PHONE AT 718-433-3390 OR 718-433-3340 AND VIA EMAIL AT TMC@DOT.NYC.GOV AND AWAIT DIRECTION PRIOR TO CONTINUING WORK.
7. **METERS** – THE PERMITTEE SHALL NOT REMOVE OR RELOCATE PARKING METERS WITHOUT FIRST OBTAINING APPROVAL FROM NYCDOT PARKING METER DIVISION AT 718-894-8651.
8. **ACCESS TO ABUTTING PROPERTIES** – THE PERMITTEE SHALL COORDINATE ALL ACTIVITIES WITH ABUTTING PROPERTY OWNERS TO ENSURE ACCESS IS PROVIDED TO/FROM ENTRANCES/DRIVEWAYS AT ALL TIMES.
9. **AUTHORIZED PARKING** – PRIOR TO PERFORMING WORK WHICH IMPACTS AUTHORIZED PARKING, THE PERMITTEE SHALL SUBMIT IN WRITING, AND COPY OCMC-STREETS, A REQUEST TO OCCUPY SPACE CURRENTLY USED BY AUTHORIZED VEHICLES. APPROVAL MUST BE RECEIVED FROM AUTHORIZED PARKING PRIOR TO OCCUPYING THESE AREAS.
10. **NOTIFICATION** – THE PERMITTEE MUST AT LEAST TWO (2) WORKING DAYS BEFORE THE START OF CONSTRUCTION NOTIFY THE NYC FIRE DEPARTMENT, NYC POLICE DEPARTMENT, NYCEMS, LOCAL COMMUNITY BOARD, BOROUGH PRESIDENT'S OFFICE-CHIEF ENGINEER, NYCDOT OCMC OFFICE, AND ALL ABUTTING PROPERTY OWNERS.
11. **STIPULATION CHANGES** – IF ANY OF THESE REQUIREMENTS, INCLUDING THE REQUIREMENTS LISTED BELOW, CANNOT BE MET, A REQUEST FOR MODIFICATIONS SHALL BE SUBMITTED IN WRITING TO OCMC-STREETS BY THE ENGINEER-IN-CHARGE FOR THE

NYC Department of Transportation
 Bureau of Permit Management and Construction Control
 55 Water Street - 7th Floor, New York, NY 10041
 T: 212.839.9621 F: 212.839.8970
www.nyc.gov/dot

AMENDMENT #1

OCMC FILE NO: CEC-13-533
 CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
 PROJECT: BIOSWALE INSTALLATION, CITYWIDE

September 12, 2014
 Page 2 of 4

B. MAINTENANCE AND PROTECTION OF TRAFFIC

DEFINITION: For the purposes of this traffic stipulation sheet, the term "Critical Roadways" shall pertain to those roadways listed in the NYCDOT Highway Rules, where work restrictions apply during specific hours of the day.

NON-CRITICAL ROADWAYS**ROADWAYS UP TO 44 FEET IN WIDTH:**

- Working hours shall be as follows: 7:00 AM to 6:00 PM, Monday to Friday (9:00 AM to 2:00 PM, Monday to Friday if working within a school zone) and 8:00 AM to 4:00 PM Saturday
- Should "No Standing" rush hour regulations apply adjacent to/or opposite the construction zone, work is restricted during the hours specified on the posted regulation. OCMC should be contacted only if the Resident Engineer is requesting a waiver and consideration to work during the restricted hours.
- A school variance (VAR001) is granted to work during school hours as stipulated by OCMC-Streets. The contractor must notify the school principal in writing 48 hours prior to beginning any work.
- During work hours, the contractor shall fully close the sidewalk and post signs meeting NYCDOT specifications for directing pedestrians to the opposite sidewalk.
- During working hours, the contractor shall maintain 1-11 foot lane for traffic on one-way streets, and 2-11 foot lanes for traffic, 1-11 foot lanes in each direction, on two-way streets.
- After working hours, the contractor shall maintain either a minimum 5-foot clear sidewalk or a 5-foot protected pedestrian walkway in the roadway adjacent to the work zone for pedestrians. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited. If a pedestrian walkway in the roadway is used, it shall be ramped at entry for handicapped access. All crosswalks must be opened to pedestrians.
- The contractor shall not work on opposite sidewalks/curbs simultaneously.

ROADWAYS 45 FEET OR GREATER IN WIDTH:

- Working hours shall be as follows: 7:00 AM to 6:00 PM, Monday to Friday (9:00 AM to 2:00 PM, Monday to Friday if working within a school zone) and 8:00 AM to 4:00 PM Saturday
- Should "No Standing" rush hour regulations apply adjacent to/or opposite the construction zone, work is restricted during the hours specified on the posted regulation. OCMC should be contacted only if the Resident Engineer is requesting a waiver and consideration to work during the restricted hours.
- A school variance (VAR001) is granted to work during school hours as stipulated by OCMC-Streets. The contractor must notify the school principal in writing 48 hours prior to beginning any work.
- The contractor shall maintain either a minimum 5-foot clear sidewalk or a 5-foot protected pedestrian walkway in the roadway adjacent to the work zone for pedestrians. The pedestrian walkway shall be ramped at entry for handicapped access. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited. All crosswalks must be opened to pedestrians.
- During working hours, the contractor shall occupy 11 feet of the roadway adjacent to the curb, including the pedestrian walkway, while maintaining one 11-foot lane for traffic on one-way streets and two 11-foot lanes for traffic (one 11-foot lane in each direction) on two-way streets.
- After working hours, the contractor may occupy 8 feet adjacent to the curb, including the pedestrian walkway, and all crosswalks must be opened to pedestrians. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited.
- The contractor shall not work on opposite sidewalks/curbs simultaneously.

AMENDMENT #1

OCMC FILE NO: CEC-13-533
 CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
 PROJECT: BIOSWALE INSTALLATION, CITYWIDE

September 12, 2014
 Page 3 of 4

B. MAINTENANCE AND PROTECTION OF TRAFFIC (CONTINUED)**CRITICAL ROADWAYS**

NOTE: On some critical roadways with high pedestrian/vehicular volumes (e.g. Times Square, Downtown Brooklyn, Queensboro Plaza) OCMC-Streets reserves the right to determine the appropriate maintenance and protection of traffic in consultation with the engineer-in-charge for the agency performing the work. In these locations, the stipulations identified in CEC-13-533 may not be used.

- Working hours shall be as follows: 9:00 AM to 4:00 PM, Monday to Friday (9:00 AM to 2:00 PM, Monday to Friday if working within a school zone) and 8:00 AM to 4:00 PM Saturday
- Should "No Standing" rush hour regulations apply adjacent to/or opposite the construction zone, work is restricted during the hours specified on the posted regulation. *OCMC should be contacted only if the Resident Engineer is requesting a waiver and consideration to work during the restricted hours.*
- A school variance (VAR001) is granted to work during school hours as stipulated by OCMC-Streets. The contractor must notify the school principal in writing 48 hours prior to beginning any work.
- The contractor shall maintain either a minimum 5-foot clear sidewalk or a 5-foot protected pedestrian walkway in the roadway adjacent to the work zone for pedestrians. The pedestrian walkway shall be ramped at entry for handicapped access. Occupancy of no stopping zones, no standing anytime zones and authorized parking is prohibited.
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- The contractor shall not work on opposite sidewalks/curbs simultaneously.

C. GENERAL NOTES

1. **THIS IS NOT A PERMIT.** THIS STIPULATION SHEET MUST BE SUBMITTED WITH ALL REQUESTS FOR PERMITS PERTAINING TO THE ABOVE CONTRACT AND PRESENT AT THE WORK SITE ALONG WITH ALL ACTIVE CONSTRUCTION PERMITS WHEN THE APPROVED WORK IS BEING PERFORMED.
2. **ALL OTHER STIPULATIONS UNDER ORIGINAL NYCDOT STIPULATIONS SHEET CEC-13-533 DATED 11/21/13 WHICH HAVE NOT BEEN CHANGED BY THIS AMENDMENT REMAIN IN EFFECT.**
3. ALL RELOCATION WORK BY THE UTILITIES SUCH AS; CON EDISON, TELEPHONE, GAS AND CABLE COMPANIES SHALL PRECEDE THE CONTRACTORS' START OF WORK ON ALL AFFECTED ROADWAYS IN THE IMPACTED CONTRACT AREA.
4. THE CONTRACTOR IS ADVISED THAT OTHER CONTRACTORS MAY BE WORKING IN THE GENERAL AREA DURING THE TERM OF THIS STIPULATION. IN WHICH EVENT, THE CONTRACTOR MAY REQUIRE MODIFICATIONS BY THE OCMC-STREETS.
5. THE PERMITTEE IS NOT AUTHORIZED TO ENTER, OCCUPY OR USE ANY PUBLICLY-OWNED OR PRIVATELY OWNED, NON-PAVED, LANDSCAPE OR NON-LANDSCAPED LOCATION WITHOUT SPECIFIC WRITTEN PERMISSION. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF A LIMITED-ACCESS ARTERIAL HIGHWAY, WRITTEN APPROVAL FROM THE NYCDOT OCMC-HIGHWAYS IS REQUIRED. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR PUBLIC PARK, WRITTEN APPROVAL FROM THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION OR NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION IS REQUIRED. WHEN THE LOCATION IS WITHIN THE RIGHT-OF-WAY OF ANY OTHER JURISDICTION SUCH AS PRIVATE PROPERTY, STATE, FEDERAL ETC., IT IS THE PERMITTEE'S RESPONSIBILITY TO DETERMINE THE PROPERTY OWNER AND OBTAIN THE WRITTEN APPROVAL.
6. THE PERMITTEE SHALL ADHERE TO THE NYCDOT BUREAU OF BRIDGES' SPECIAL PROVISIONS FOR LANDSCAPE PROTECTION, MAINTENANCE AND RESTORATION, ITEMS 1.18.15 THROUGH 1.18.19, WHENEVER AND WHEREVER ANY OF THE PERMITTEE'S ACTIVITIES OCCUR WITHIN A LIMITED ACCESS ARTERIAL HIGHWAY RIGHT - OF - WAY.
7. NO DEVIATION OR DEPARTURE FROM THESE STIPULATIONS WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE OCMC-STREETS. REQUEST FOR SUCH MODIFICATIONS SHALL BE SUBMITTED TO THE OFFICE OF THE OCMC-STREETS, NEW YORK CITY DEPARTMENT OF TRANSPORTATION, A MINIMUM OF TWENTY (20) DAYS IN ADVANCE FOR CONSIDERATION.

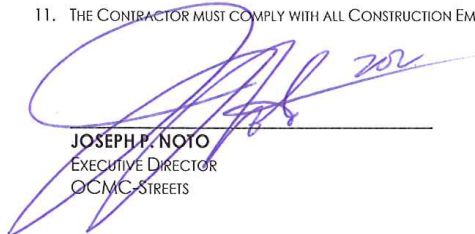
AMENDMENT #1

OCMC FILE NO: CEC-13-533
CONTRACT NO: ALL BIOSWALE CONTRACTS, CITYWIDE
PROJECT: BIOSWALE INSTALLATION, CITYWIDE

September 12, 2014
Page 4 of 4

C. GENERAL NOTES (CONTINUED)

8. FOR THIS PROJECT THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY ADVANCE WARNING AND DETOUR SIGNS, TEMPORARY CONTROL DEVICES, BARRICADES, LIGHTS AND FLASHING ARROW BOARDS IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," THE TYPICAL SCHEMES INCLUDED IN THIS SPECIFICATION; AND AS ORDERED BY THE ENGINEER-IN-CHARGE AND THE OCMC-STREETS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING HIS CONSTRUCTION SIGNAGE. THE IDENTIFICATION SHALL INCLUDE THE CONTRACTOR'S NAME, SPONSORING AGENCY NAME AND THE CONTRACT NUMBER. THE IDENTIFICATION SHALL BE PLACED ON THE BACK OF THE SIGN. THE LETTERING SHALL BE THREE (3) INCHES HIGH.
10. THE OCMC-STREETS RESERVES THE RIGHT TO VOID OR MODIFY THESE STIPULATIONS SHOULD CONSTRUCTION FAIL TO COMMENCE WITHIN TWO (2) YEARS OF THE SIGNED DATE OF THESE STIPULATIONS.
11. THE CONTRACTOR MUST COMPLY WITH ALL CONSTRUCTION EMBARGOS ISSUED BY THE NYCDOT INCLUDING THE HOLIDAY EMBARGO.



JOSEPH P. NOTO
EXECUTIVE DIRECTOR
OCMC-STREETS

DUANE C. BARRA
PROJECT MANAGER
OCMC-STREETS

DSNY MEMORANDUMS

THE CITY OF NEW YORK DEPARTMENT OF SANITATION

Interpretive Memorandum # 2

The Contractor is notified that the following Department of Sanitation (DOS) Interpretive Memorandum # 2 does not guarantee that a temporary stockpile location will be approved for this project. In addition, the Department of Design and Construction (DDC) reserves the right to rescind approval for any temporary stockpile location at any time. No payment will be made to the Contractor if either a temporary stockpile location is not approved for this project, or DDC rescinds an approval for any reason.



THE CITY OF NEW YORK Department of Sanitation

S. ELIZABETH SEARLE
Assistant Commissioner
for Legal Affairs

Bureau of Legal Affairs
44 Beaver Street
New York, NY 10004
Telephone (212) 837-8110
FAX (212) 837-8243

Department of Sanitation Rules and Regulations Governing Non-Putrescible Solid Waste Transfer Stations

INTERPRETIVE MEMORANDUM # 2 February 14, 1995

*Subject: Temporary Storage and Processing of Construction and Demolition Debris
by New York City Agency Contractors*

Contractors performing construction work for New York City agencies may be required to excavate dirt, concrete, rock, gravel and similar materials ("construction materials") from a contract site or to remove from a contract site construction materials resulting from construction, demolition, alteration, repair or renovation of structures, streets or buildings. On street construction projects, construction materials required to be excavated or removed may also include asphalt. The purpose of this Interpretive Memorandum is to (a) define the circumstances under which the Department of Sanitation (the "Department") will not deem its Rules and Regulations Governing Non-Putrescible Solid Waste Transfer Stations (the "Rules") to apply to the temporary storage, processing and/or stockpiling (collectively, "stockpiling") of such construction materials and (b) the procedure for ensuring such exemption. It is the responsibility of the contracting agency to oversee its contractors' compliance with the Rules and with this Interpretive Memorandum.

1. When No Transfer Station Permit is Required

Where a City contractor has:

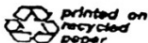
- (a) set aside an area of a contract site for stockpiling construction materials excavated from and/or intended for that site; or
- (b) received written approval from the contracting agency for an off-site stockpiling location,

the Department will not deem such stockpiling location a transfer station and will not require the contractor to obtain a transfer station permit so long as:

- (c) no construction materials or debris from off the contract site are received at the designated location for subsequent transfer to another location (other than the contract site); and
- (d) the temporary stockpiling location is clearly described as such in the contract or clearly approved by the construction agency and designated as such in writing to the Department by the agency; and
- (e) the construction agency represents in writing to the Department that such agency will monitor the temporary stockpiling location and ensure its clean-up and restoration pursuant to the procedures set out in this memorandum.



Help Reduce
New York's Waste.



Example: Street Construction Projects

As part of a contract for street construction, the contractor may be working at one end of a street and using an area at the other end of the street for the temporary stockpiling of construction materials. Both ends of the street are part of the construction contract site. In addition, the contractor may have leased an off-site location for temporary stockpiling of materials, which, following processing, will be reincorporated into the contract site, with some portion of the remainder designated for delivery to a Department disposal facility. Neither location will be regulated by the Department as a transfer station so long as the procedures set out in this memorandum are followed.

2. Procedure for Exception.

Upon a City construction agency's approval of any location to be designated as a temporary processing, storage or stockpiling area, that agency must determine that (a) its contract with the contractor provides for clean-up and restoration of such area by, for example, the contractor's posting of a restoration bond and/or by contractual set-off and (b) the agency has adequate procedures for monitoring the designated area to ensure that it does not violate the provisions set forth in this memorandum and that such location is cleaned up and restored at the completion of the contract work.

The City construction agency must submit an official letter to the Department acknowledging compliance with both (a) and (b) immediately above and representing that the agency will ensure the contractor's compliance. The letter to be submitted must be in substantially the following form, addressed to the Director, Bureau of Waste Disposal, Department of Sanitation, 125 Worth Street, Room 726, New York, NY 10013:

"The New York City Department of _____ (the "Agency")
has awarded a construction contract to _____ (Contractor)
_____ (the "Contractor") for work to be performed at _____ (Contract
Site) _____.

a. This Agency has approved the following locations to be used by the Contractor for the temporary storage, processing and/or stockpiling of construction materials (the "Stockpiling Locations") excavated from the construction site or intended for the construction site:

b. The terms of the contract require the Contractor to clean up and restore the Stockpiling Locations, whether on or off the contract site, at or before the completion of the contract work.

c. This Agency assumes responsibility for the monitoring of Stockpiling Locations to ensure that only materials received from and/or intended for the construction site are stockpiled at such locations and we will enforce clean-up and restoration of such Locations at the end of their use for temporary stockpiling or at the termination of the contract, whichever occurs earlier, through restoration

bonding requirements and/or contractual set-off provisions such that the costs of clean-up and restoration will not become a charge to the Department or the City. "

3. When a Transfer Station Permit is Required

A transfer station permit will be required under any circumstances other than those outlined above. Except in the specifically defined circumstances set forth in this memorandum, any operator of a location or facility which receives, processes, stores or stockpiles construction and demolition debris or fill material for purposes of transfer to another location, including to a New York City Department of Sanitation facility, and whether or not under contract to the Department for the delivery of such materials, will be fully subject to the Department's transfer station rules and liable for enforcement for violations.

NOTICE

The Standard Sewer And Water Main Specifications of the Department of Environmental Protection (dated July 1, 2014), Sewer Design Standards of the Department of Environmental Protection (dated (September 2007) Revised August 2018), Water Main Standard Drawings of the Department of Environmental Protection (latest revisions), and Specifications For Trunk Main Work of the Department of Environmental Protection (dated July 2014) shall be included as part of the contract documents. These said specifications and standard drawings are hereby revised under the following section headings:

- A. NOTICE TO BIDDERS
- B. REVISIONS TO THE STANDARD SEWER AND WATER MAIN SPECIFICATIONS
- C. REVISIONS TO THE SPECIFICATIONS FOR TRUNK MAIN WORK

(NO TEXT ON THIS PAGE)

A. NOTICE TO BIDDERS

NO TEXT ON THIS PAGE

B. REVISIONS TO THE STANDARD SEWER AND WATER MAIN SPECIFICATIONS

(1) Refer to Subsection 10.21 - Contractor To Notify City Departments, Page I-13:

Add the following to **Subsection 10.21**:

(1) N.Y.C. D.E.P., BUREAU OF WATER AND SEWERS OPERATIONS

The Contractor shall notify Mr. Peter Gordon, P.E., Chief, Linear Capital Program Management Division at the Department of Environmental Protection, 59-17 Junction Blvd., 3rd floor low rise, Corona N.Y. 11368, (718) 595-4347, at least thirty (30) days prior to the start of construction.

(2) N.Y.C. DEPARTMENT OF TRANSPORTATION

The Contractor shall notify Mr. Michael LeFosse / Ghanshyam Patel – Signal / Street Lighting Operations, 34-02 Queens Blvd., Long Island City, N.Y. 11101 at (212) 839-3799 / (212) 839-3359, at least seventy-two (72) hours prior to the start of construction.

(3) N.Y.C. TRANSIT AUTHORITY

The Contractor is advised that bus routes as well as bus stops, within the scope of this project may be affected during construction operations. The Contractor shall notify the Transit Authority at least two (2) weeks prior to the start of construction, in order to make the necessary arrangements.

Arrangements shall be made through:

Ms. Sarah Wyss
Director Of Short Range, Bus Service Planning (SRB)
New York City Transit
2 Broadway, 17th Floor
New York, N.Y. 10004
Telephone No. (646) 252-5517
sarah.wyss@nyct.com

(2) Refer to Subsection 10.30 - Contractor To Provide For Traffic, Page I-15:

Add the following to **Subsection 10.30**:

(1) Traffic Stipulations:

The Contractor shall refer to Traffic Stipulations identified in the maintenance of traffic requirements under Highway Contract No. HWK797W.

(3) Refer to Subsection 71.41.4 - Specific Pavement Restoration Provisions, Page VII-67:

Add the following to **Subsection 71.41.4**:

(E) Specific Pavement Restoration Provisions:

- (1) Within the limits of the highway reconstruction the restoration shall be accomplished and paid for in accordance with Highway Construction Plans, Details and Specifications for Highway Project ID. HWK797W.

C. REVISIONS TO THE SPECIFICATIONS FOR TRUNK MAIN WORK

NO TEXT ON THIS PAGE

END OF SECTION
This Section consists of three (3) pages.

NO TEXT ON THIS PAGE

EP7 (1.0) - PAGES

GAS COST SHARING (EP-7) STANDARD SPECIFICATIONS

NOTICE

THE PAGES CONTAINED IN THIS SECTION REPRESENT THE GAS COST SHARING WORK THAT SHALL APPLY TO AND BECOME A PART OF THE CONTRACT.

(NO TEXT ON THIS PAGE)

TABLE OF CONTENT

I - NOTICE TO ALL BIDDERS; GAS COST SHARING WORK

II - GENERAL PROVISIONS; GAS COST SHARING WORK

1. General
2. Gas Interferences And Accommodations
 - 2a. Water Main Accommodations
 - 2b. Sewer Accommodations
3. Quantity Overruns, EP-7 Funded Bid Items
4. Changes And Extra Work
5. Excavation
6. Backfilling And Street Restoration
7. Non-Responsive Bids
8. Minimum Clearances
9. Work By Facility Operator
10. Materials Furnished By Facility Operator
11. Liability And Insurance
12. Width And Depth Of Excavation
13. Depth And Crossing Angles Of Gas Facilities
14. Maintenance Of Traffic For Gas Work
15. Relocated Gas And Temporary Systems Installation
16. Role Of Company Inspector
17. Coordination With Gas Company

III - TECHNICAL SECTION

- SECTION 6.01 - Trench Crossings; Support And Protection Of Gas Facilities And Services.
- SECTION 6.02 - Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Gas Interferences.
- SECTION 6.02.1 - Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Upstream Inverts Greater Than Six (6) Feet.
- SECTION 6.03 - Removal Of Abandoned Gas Facilities. All Sizes.
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- SECTION 6.04 - Adjust Hardware To Grade Using Spacer Rings/Adaptors. (Street Repaving.)
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- SECTION 6.08 - "No Text"**
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IV - STANDARD SKETCHES; GAS COST SHARING WORK

- NO. 1 - Support Requirements For Gas Mains And Services Crossing Excavation Greater Than 4'-0" Wide At Any Angle
- NO. 1A - Support Requirements For Gas Mains Over 16" Diameter Up To And Including 48" Diameter Crossing Excavation At Any Angle
- NO. 2 - Typical Methods Of Measurement For Gas Crossings

- NO. 3 - Utility Crossings During Catch Basin Chute Connection Pipe Installation
- NO. 4 - Utility Crossings During Catch Basin Chute Connection Pipe Installation (Extra Depth)
- NO. 5 - Gas Main Encroachment On And/Or Parallel To Excavation Of Unsheeted Trench

V - PRELIMINARY GAS WORK TO BE PERFORMED BY FACILITY OPERATOR

VI - LISTING OF APPROXIMATE LOCATIONS OF EP-7 BID ITEMS QUANTITIES

I - NOTICE TO ALL BIDDERS; GAS COST SHARING WORK

All prospective bidders are hereby advised that, pursuant to the "Gas Facility Cost Allocation Act", ("the Act"), the City of New York has entered into an agreement ("the Agreement") with the gas companies (Con Edison or National Grid (formerly KeySpan Energy Delivery)) operating in their respective areas of the City to "share" the cost of facility relocation and/or support and protection of facilities disturbed by proposed water and/or sewer and related City work specified in this contract. Therefore, bid items, specifications and estimated quantities for the incremental costs of support and protection of certain gas facilities have been included in this contract. The low bid for this contract shall be determined by examining each bid for all work to be performed under this contract including any work of support and protection of gas facilities to be performed. The Contractor shall not seek additional compensation from gas companies except as specifically set forth in its contract.

II - GENERAL PROVISIONS; GAS COST SHARING WORK

1. General:

The Contractor shall perform City work with interferences from existing live and abandoned gas facilities. This shall be defined as utility work. Therefore, this contract includes bid items, specifications and estimated quantities designed to fully compensate him/her for the incremental costs of supporting, protecting, providing accommodations and, avoiding disturbing gas facilities located in the streets shown on the contract drawings. In the event that any other provisions of this contract related to gas facilities (or private utilities) conflict with these provisions, these provisions shall supersede and govern all work related to gas facilities owned by the companies operating in the project area. All utility work, as defined in these specifications, including changes and additions thereto shall be paid solely by the City except when specified otherwise in this contract. Contractor hereby agrees that the facility operator shall not be liable to pay him/her for any work performed including extra utility work. Contractor agrees that its bid prices include all compensation for loss of productivity and efficiency, idle time, delays (including any delays occasioned by negotiation of a contract change), change in operations, mobilization, demobilization, remobilization, added cost or expense, lost of profit, other damages or impact costs that may be suffered by or because of utility work, or the presence of gas facilities in the proximity of City work and that it will not seek additional compensation for these items. All disputes shall be resolved as specified in the contract.

Pursuant to the Act, Agreement, and the New York City Administrative Code, the gas company(ies) has been directed by the Commissioner and is required to perform all maintenance, repairs, replacement, shifting, alteration, relocation, and/or removal work that are not part of this contract. By having bid on this contract, the Contractor understands and agrees that the Commissioner has preasserted any right the City has to require, including the issuance of any directives or so called "order outs" under the New York City Administrative Code, any or all gas companies to maintain, repair, replace, protect, support, shift, alter, relocate, and/or remove all gas facilities that are about to be disturbed by the City contract work. The issuance of additional such directives during the performance of the contract work, where necessary in the sole judgment of the Commissioner, shall be initiated by such Commissioner as set forth in the relevant sections of the Act and Agreement. Contractor further agrees to insert such requirements as set forth herein above into any contracts with its approved subcontractors so that its subcontractors also understand and agree to such contract requirements.

2. Gas Interferences And Accommodations:

During the performance of sewer and water main work funded by the New York City Department of Environmental Protection (NYCDEP), as instructed by the Engineer, the use of any applicable contract bid item is allowed in order to resolve and accommodate all gas facilities interferences with such City work, including the removal of contaminated soil in associated trench excavation. This is in addition to the specified EP-7 bid items in the contract. Payment for such accommodation shall be funded by EP-7 bid item "UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS" (F.S. Fixed Sum). The value of such accommodation shall be computed by multiplying the appropriate unit prices bid to the quantity of work performed, as determined by the Engineer, and applying the total amount thus to be paid

to EP-7 bid item "UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS". When EP-7 bid item "UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS" does not exist, such additional accommodation work shall be at no cost to the City but shall be a matter of adjustment between gas facility operator and Contractor. Private facilities, other than gas, that become in interference due to gas interferences accommodations shall also be accommodated, if so directed by the Resident Engineer, at no additional cost to the City and, provided that its owner agrees to be responsible for all additional costs to Contractor, otherwise, such facility shall be ordered by the City to be maintained, shifted, relocated or replaced by its owner at his/her expenses.

2a. Water Main Accommodations:

When water main construction is to be performed in this contract, Contractor shall be required, if warranted by field conditions, and at locations designated by the Resident or Borough Engineer, to change the vertical or horizontal alignment of water mains including but not limited to all additional labor, material, work method accommodations, furnishing, delivering and laying offset fittings and pipes, etc., necessary in order to complete water main installation and, avoid gas interferences in the project area, including street intersections. Typical work method accommodations shall include, but not be limited to, pier and plate, installation of filter fabric and select fill, etc. Such work shall be performed as directed by the Engineer and in accordance with contract specifications and latest edition of water mains standards and specifications.

2b. Sewer Accommodations:

When sewer construction is to be performed in this contract, Contractor shall be required, if warranted by field conditions, and at locations designated by the Resident or Borough Engineer, to change the horizontal alignment of sewer facilities (if possible) including but not limited to all additional labor, material, work method accommodations, furnishing, delivering and construction of additional manholes or modification of manholes/catch basins, extending chute connections, house connections, using alternate materials and methods, poured-in-place structures, etc., necessary in order to complete sewer installation and, avoid gas interferences in the project area, including street intersections. The term sewer facility shall include, but not be limited to, all sewer pipe and appurtenances, manholes, catch basins, catch basin chutes, etc. Such work shall be performed as directed by the Engineer and in accordance with contract specifications and latest edition of sewer standards and specifications.

3. Quantity Overruns, EP-7 Funded Bid Items:

No quantity overrun, in excess of one hundred twenty five (125) percent, shall be permitted for EP-7 funded bid items (gas) included in this contract, except when Resident Engineer determines that such overruns are caused by field modifications to planned City work, or approved construction methods, or contract scope changes. The Engineer will notify the gas facility operator in writing of overruns. The Contractor must invoice the gas facility operator for payment of all overruns, which will be paid by the gas facility operator at the contract bid price. Gas facility operator will be entitled to reimbursement by NYCDEP under established cost sharing procedures.

4. Changes And Extra Work:

This section is not applicable to work defined under "Emergency Reconstruction Contracts" or so-called "Where and When Contracts" since these projects, by definition, inherently encounter unanticipated gas facilities and cannot be pre-engineered. In all other cases, any contract changes proposed for City work shall also cover and include all associated changes to support and protection of gas facilities affected by such changes to City work. In all other cases where the Contractor finds that City work cannot be performed as planned and specified and/or, as approved because of a need to support, protect and/or alleviate interferences from gas facilities that were not listed and/or shown, or incorrectly shown in contract plans and specifications, he shall immediately notify the Resident Engineer and the facility operators' representative of his findings. Resident Engineer shall promptly examine such claims and determine whether or not such work is covered by contract bid items and /or specifications (contract bid items and specifications shall include city contract items as well as EP-7 items). The Resident Engineer shall also

examine the claim to determine if the application of EP-7 bid item "UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS" is appropriate to resolve the claim. If upon examination, the Engineer determines that such field conditions were unanticipated (not shown and/or listed, or incorrectly shown in contract documents) and are not covered by bid items and contract specifications, he shall then direct the Contractor and the affected facility operator to negotiate the cost of supporting and protecting, and/or alleviating the impact on City work caused by such unanticipated gas facilities with each other with the understanding that the performance of City work shall continue during negotiations. If a cost agreement is reached, the Contractor and facility operator shall adjust such costs between themselves at no additional costs to the City contract. If the Contractor and affected facility operator do not reach an agreement concerning the price to be paid for the extra work within five (5) business days of the Engineer's directive to engage into such negotiations and, after considering: public safety and inconvenience, requirements of laws and regulations applicable to private utilities, integrity of all utility systems, including but not limited to sewer and water, gas, electric, telephone and, cable TV facilities, sound engineering practices, cost (long and short term) to all affected parties, and potential City work delays, then the Resident Engineer, depending on nature and severity of interferences with City work, shall either, direct the facility operator to relocate or replace its facilities at its own discretion and cost, reimbursable by NYCDEP under established gas cost sharing procedures or, direct the Contractor to perform the utility work on actual time, material and equipment costs basis pursuant to relevant contract requirements and amendments. Contract bid prices for any applicable items of work involved shall be applied, or converted to an allowance for time and material charges. Changes shall be for affected portions of utility work and, shall be processed with EP-7 funds.

5. Excavation:

All excavators shall notify the NYC/LI One Call Center at 1-800-272-4480 at least two (2) working days, not including the day of the call, but not more than ten (10) working days in advance of the start of any excavation work. The gas company(ies) will mark out its facilities within the project limits and provide Construction Inspector(s) during all excavation work in close proximity (within twelve (12) inches) to gas facilities. The Contractor shall exercise extreme caution when excavating in the vicinity of any gas facilities. Hand excavation shall be performed within twelve (12) inches of gas facilities. The Contractor prior to excavating underneath these facilities shall adequately support all gas facilities. Standard support details for gas facilities have been included in the specifications. Any damage to gas facilities shall be reported immediately to the gas company(ies). The Contractor shall be responsible for all cost associated with repairs made necessary by damages caused by his operations.

6. Backfilling And Street Restoration:

Backfilling operations and street restorations shall be in accordance with contract requirements.

7. Non-Responsive Bids:

Every gas (EP-7) bid item has a suggested "Not less than" value per unit indicated on contract bid sheet. Bids resulting in cost of less than suggested for EP-7 items are hereby prohibited and if submitted shall be considered NON-RESPONSIVE.

8. Minimum Clearances:

Clearance requirements for City work shall govern and supersede any clearance requirement of gas facility operator. Therefore, a minimum of twelve (12) inches clearance between private utilities and City water mains, sewers or related structures to be installed in this contract shall be maintained. When this clearance is not attainable, the Resident Engineer may allow a minimum of four (4) inches clearance. With less than twelve (12) inches clearance a neoprene/polyethylene shield (to be provided by facility operator) shall be installed as part of all work item specifications. However, if Resident Engineer determines that City work cannot be performed within allowable clearance and no reasonable City accommodation (no-cost change to City work) is possible, the City shall direct the facility operator to remove, relocate, shift, or alter their facility(ies) pursuant to the New York City Administrative Code.

9. Work By Facility Operator:

The facility operator may find it necessary to perform the following types of work during performance of City work: accommodating a contractor's request for gas facilities modifications (in order to facilitate City contractor's proposed construction method) or, remedial and emergency work on gas facilities proper with their own resources and materials if an approved method of construction for City work causes unanticipated disturbances to gas facilities or, replacing defective gas facilities when they are exposed by the Contractor and their actual conditions are observable by the facility operator. Also included in the above category of defective gas facilities are: the presence of environmental contaminants attributable to the gas facility in or around gas facilities. If such work is deemed required by the facility operator or if facility operator is directed by the City to address such deficiencies at any time during the course of construction, the Contractor shall modify the construction schedule at no cost to the City and allow the facility operator five (5) business days to perform such work without interferences. Additional costs to the facility operator (in cases of accommodations) or, Contractor (in cases of defective gas facilities) due to such gas work, if any, shall be the responsibility of the parties involved and not of the City. Such costs shall be a matter of adjustment between the Contractor and the facility operator.

10. Materials Furnished By Facility Operator:

It shall be the Contractor's responsibility to inspect material to be installed by him immediately upon delivery and advise the facility operator through its authorized representative, of all damaged materials. The Contractor at no additional costs to the City or the facility operator shall replace any material that is damaged or lost after the Contractor's inspection.

11. Liability And Insurance:

Notwithstanding the provisions of this contract, the existing division of liabilities to third parties shall remain the same as between the City and the company. Therefore, it is specifically agreed by the City, company and Contractor (by bidding on this contract) that for the purpose of any liabilities to third parties, that the City contractor performing work directly and physically relating to gas company facilities in this project, shall be deemed an agent of the company and not an agent of the City, the New York City Municipal Water Finance Authority, or the New York City Water Board. Contractor shall include the company as an additional insured on all insurance policies maintained to comply with the City's insurance requirements.

12. Width And Depth Of Excavation:

Contractor shall not be authorized to deliberately change trench or excavation widths and/or depth specified without Engineer's approval. Enlargement of any side of excavation up to eighteen (18) inches beyond pay limits (or inside face of sheeting) requested by the Contractor for the installation of certain types of sheeting may be granted. However, such enlargements or those greater than allowable shall not be approved when, in the sole judgment of the City, field conditions allow the water mains and sewer work to be performed within the limits specified and, the sole purpose of such enlargement request is to impact adjacent utilities (public or private) whose support and protection are part of this contract. Any approval shall be given at no additional cost to the City contract, including EP-7 funding, and all costs associated with unauthorized enlargements shall be the sole responsibility of the Contractor.

13. Depth And Crossing Angles Of Gas Facilities:

Where gas facilities are shown (or specified as) crossing proposed alignment of sewers, water mains, catch basins and chute connections or any other proposed excavations at specific angles (as measured off plans or sketches or specified in contract), it shall be understood that actual field measurements may deviate (plus or minus) forty-five (45) degrees from those shown or specified. The cover, or depth from street surface to top of facilities, shall be as shown or specified in contract documents, no deviation is to be assumed. Where gas facilities are not shown on contract documents, but their support and protection are otherwise included in this contract then, all references to facilities crossing at "various angles and depth" in the gas sections shall mean that such facilities are crossing sewer, water, catch basin and, catch basin chute, and other excavations at a ninety (90) degree angle to the proposed sheeting line or side of

excavation (for unsheeted trenches) with an allowable deviation of forty-five (45) degrees in any direction, except for catch basin chute excavation where the allowable deviation shall be sixty (60) degrees. Where the cover is not noted or specified, the bottom face of such facilities shall be assumed to be crossing catch basin chutes at a depth of three (3) foot eight (8) inches or less from the street surface. Paragraph No. 2 above shall apply in cases of distribution water main construction. Appropriate bid items and specifications are provided for cases where angle and depth are greater than stated above. This section also applies to work defined in "Emergency Reconstruction Contracts" or so-called "Where and When Contracts". These contracts are not pre-engineered and consequently have no drawings, sketches or determined locations and so, gas facilities encountered will be crossing existing and proposed sewer, water, catch basin/catch basin chutes and all appurtenances at various angles and depths.

14. Maintenance Of Traffic For Gas Work:

All work pertaining to gas bid items and specifications shall be performed within the contract maintenance of traffic plan as specified in the contract document. The bid price for the Maintenance and Protection of Traffic shall cover all work pertaining to gas items. The City shall make compensation for additional maintenance and protection of traffic items in connection with gas item of work only when such additional work is deemed reasonable and necessary by the Resident Engineer and is approved by him prior to its performance.

15. Relocated Gas And Temporary Systems Installation:

In cases where the Contractor is allowed to select the location for temporary construction such as, installation of dewatering headers, wells, well points, etc., he shall not disturb any gas facilities shown on sketches provided in this section. The only exception shall be, if the affected gas company agrees to such relocation and provided that the cost of such relocation is a matter of adjustment between the company and Contractor, and at no cost to the City.

16. Role Of Company Inspector:

In any case in which the City elects to perform some or all support and protection work with its own employees, personnel or contractors, the facility operator shall provide onsite inspectors to approve and certify such support and protection work (exclusive of City accommodations) performed by the City's own employees, personnel, and contractors. Facility operator's inspectors are not authorized to direct City contractor during the performance of contract work. They shall act through the City Resident Engineer and provide him/her required approvals and certifications, prior to preparing partial payments of EP-7 items, in a format and frequency to be prescribed by the appropriate City Head of Construction.

17. Coordination With Gas Company:

The Contractor shall be required to notify the gas company(ies), in writing, at least two (2) weeks prior to the start of final paving in order to allow companies to complete any unfinished gas work located within the area to be paved. Every effort shall be made to maintain gas service with minimum inconvenience to the public.

III - TECHNICAL SECTION

SECTION 6.01 - Trench Crossings; Support And Protection Of Gas Facilities And Services.

1. Description:

Under this section, the Contractor shall provide all labor, materials, equipment, and incidentals required to

support and/or protect the integrity of gas mains, services and appurtenances of any sizes, configurations, and operating pressures crossing trench excavations above subgrade for planned construction of sewers and water mains facilities. A gas service shall be defined as a gas pipe of three (3) inches in diameter or less branching from the main to a customer pick up point or property valve box. A gas main may be any size pipe that is part of a distribution or transmission network other than services described above. Crossings shall be defined as gas facilities spanning the width of excavation (one side to the other side). These crossings may be at various angles and depth as shown on "Gas Cost Sharing Work Standard Sketches Nos. 1 and 1A", and as specified in "General Provisions; Gas Cost Sharing Work Paragraph No. 13" and, at the locations shown or listed in contract documents. The gas company operating in the area, (facility operator), owns these facilities. The work shall be performed in accordance with contract specifications, plans, and at the directions of the Resident Engineer in consultation with the authorized representatives of the facility operator.

2. Method Of Construction:

- A. Protection: In general, the gas facilities shall be protected as required by New York State Industrial Code 753. In particular, the Contractor shall use hand excavation methods (pick and shovel or hand held power tools) directly below the pavement base to expose the gas facilities (marked out by facility operators) and to ascertain the clearances and cover of the facilities with respect to the proposed excavation. Upon exposing the affected facilities sufficiently, at the discretion of the Resident Engineer, to ascertain the foregoing, Contractor shall be permitted to proceed with a combination of hand and machine excavation, as appropriate, outside a zone of protection whose limit shall be defined as a perimeter located twelve (12) inches from the outside face of each gas facility crossings (See "Gas Cost Sharing Work Standard Sketch No. 2"). If the facilities are in direct interference with City work, meaning that "Minimum Clearances" described in "General Provisions; Gas Cost Sharing Work Paragraph No. 8" cannot be maintained, and excavation has to be temporarily or permanently abandoned then this particular location shall become a test pit and dealt with as specified in Section 6.07, and "General Provisions; Gas Cost Sharing Work Paragraphs Nos. 2 and 8".
- B. Support: Gas mains or services crossing excavations equal or less than four (4) feet wide are generally self supporting, unless field conditions as determined by the Resident Engineer require otherwise. The support requirements for gas mains and services crossing excavations greater than four (4) feet wide shall be as shown on the attached "Gas Cost Sharing Work Standard Sketch No. 1" and Contractor shall use sheeting methods that permit the maintenance of gas facilities in their existing locations and configurations. Alternate methods equivalent to those shown on the sketch or accommodations by the facility operator proposed by the Contractor in order to facilitate the execution of the specified work shall be allowable, provided that prior approval is obtained by the Contractor from the Engineer and the facility operator. The support and protection of gas facilities crossings shown on plans, drawings, listings or otherwise identified in this contract shall not be circumvented with the issuance of so called "order outs".

3. Method Of Measurement:

The Contractor shall be paid for supporting and/or protecting gas facilities crossing trench excavations under the appropriate bid items covered by this section. The Contractor shall be directly responsible to the facility operator for the total cost of using any alternate method requiring the use of resources owned by the facility operator. Regardless of the method used, the City shall pay the bid price for the appropriate support and/or protect item of work. The average rate charged by the facility operator for alternate support and protection work such as, disconnecting and reconnecting gas services is listed in attached "Schedule GCS-A".

4. Payment Restrictions:

These items shall not be paid for: gas services crossing unsheeted water main trench excavation; abandoned gas main/services identified by facility operator; gas mains/services crossing trench excavations for fire hydrant branch connections pipes, catch basins and/or chutes (sewer drain pipe), house sewer and/or water services; gas facilities encroaching any face of excavation for sewer and/or

water construction, all of which are covered under other contract sections. Also this item shall not be paid for new gas mains and services crossing water trenches when trenching for such new facilities has been performed by the Contractor in common with trench excavation for City work (overlapping trench limits). The cost of supporting and protecting such gas facilities crossings shall be deemed included in the cost of trench excavation for the new gas facilities. This payment restriction shall apply even if such common trench gas excavation is not part of the contract. The prices bid for items covered by this section represent full compensation to Contractor to completely perform the work described. No other bid items shall be combined with these items in order to pay for gas main and/or services crossing excavations specified herein.

5. Method Of Payment:

Each (Ea.) gas facility crossing trench excavation as described in these specifications shall be counted for payment.

6. Price To Cover:

The cost of timber/steel supports installed for gas facilities shall be included in the bid price. The bid price for each crossing shall also cover all additional supervision, labor, material (except those provided by the facility operator), equipment and insurance necessary to completely maintain the gas facilities without disruption of service to the customers and in accordance with contract plans, specifications and facility operator standards. The price shall also include: changes of method of operations; sheeting modifications where necessary to accommodate the gas facilities crossings; installation and removal of water pipe under gas facilities (so called "snaking"); extra care during excavation (including hand excavation under existing single and multiple gas facilities); extra backfilling and compaction around, over and under gas facilities; installation and removal of sheeting around gas facilities; associated maintenance and protection of traffic; barricades; and traffic plates that may be required to temporarily close and/or complete the work.

SECTION 6.02 - Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Gas Interferences.

1. Description:

Under this item, the Contractor shall provide all labor, materials, equipment, insurance, and incidentals for the extra excavation associated with the installation of catch basin sewer drain pipes (chute) under gas facilities of various sizes crossing the trench excavation at various angles and depth at the locations shown in the contract documents and also, for the support and protection of these facilities during associated excavation and backfill operations. The gas company operating in the area, (facility operator), owns these facilities.

2. Method Of Measurement:

The bid price shall be per location (Each) where extra excavation is required when catch basin sewer drain pipes are installed at an upstream invert depth lower than four (4) feet (up to a maximum of six (6) feet) from the proposed pavement grade because the bottom faces of interfering gas mains and appurtenances are located at a depth greater than three (3) foot eight (8) inches from proposed pavement surface (See "Gas Cost Sharing Work Standard Sketch No. 4").

3. Method Of Construction:

Incremental cost responsibility for chute excavation is determined by the first private facility encountered starting from catch basin structure proper and that prevents the installation of the chute connection at an upstream cover less than or equal to three (3) feet or any other minimum cover required to avoid City facilities (e.g. water, sewer, etc.) as directed by the Resident Engineer.

4. Payment Restrictions:

This item shall not apply and related bid item shall not be paid in cases where:

- A. Upstream invert chute is more than six (6) feet deep because of gas facilities.
- B. Chute cannot be installed above existing gas facilities because of interferences with other private facilities that are not otherwise covered under this contract, regardless of upstream invert depth.

The above cases shall be at no cost to the City, but shall be a matter of adjustment between the Contractor and the facility operator(s).

5. Price To Cover:

The bid price shall cover the additional cost of all additional supervision, labor, materials, equipment and insurance, to complete the installation of catch basins and associated sewer connections in accordance with the contract plans and specifications. The price shall include: excavation by hand around and under single and multiple gas facilities; locating, supporting and protecting gas facilities; backfilling and all other items necessary to perform all work incidental thereto including: installation and removal of drain pipe under gas facilities ("snaking"); widening of trenches to facilitate the above work; subsequent additional backfill and pavement restoration; modifying precast catch basin window to accommodate connection; changing sheeting method and configuration to accommodate gas facility crossings; maintenance and protection of traffic; barricades; and installation of traffic plates that may be required to temporarily close and/or complete the work. The price shall not include removal of ledge rock and/or excavation of boulders in open cut.

SECTION 6.02.1 - Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Upstream Inverts Greater Than Six (6) Feet.

1. Description:

Under this item, the Contractor shall provide all labor, materials, equipment, insurance and incidentals for the extra excavation of catch basin chutes where the upstream invert is greater than six (6) feet under gas facilities of various sizes crossing the trench excavation at various angles and depth at the locations shown in the contract documents or as determined by field conditions and also, for the support and protection of these facilities during the associated excavation, sheeting and backfilling operations.

2. Method Of Measurement:

The bid price shall be per location (Each) where extra excavation and sheeting is required when the catch basin chute installed at an upstream invert depth lower than six (6) feet from the proposed pavement grade because the bottom faces of the interfering gas mains and appurtenances are located at a greater depth than three foot eight inches from the proposed pavement surface only.

3. Method Of Construction:

Incremental cost responsibility for chute excavation is determined by the first private facility encountered during such excavation when initiated from catch basin structure and that prevents the installation of the chute at an upstream cover less than or equal to three (3) feet or any other cover required to avoid City facilities as directed by the Resident Engineer.

4. Payment Restriction:

This item shall not apply and related bid item shall not be paid in cases where:

Upstream invert chute is less than or equal to six (6) feet deep because of gas facilities. Section 6.02 shall be paid.

5. Price To Cover:

The bid price shall cover the additional cost of all supervision, labor, materials, equipment and insurance to complete the installation of catch basin and associated sewer connections in accordance with the contract plans and specifications. The price shall include: excavation by hand around and under single and multiple gas facilities; locating, supporting and protecting gas facilities incidental thereto; widening of trenches to facilitate the above work; subsequent additional backfilling and pavement restoration; modifying pre-cast basin window to accommodate connection; the installation of catch basin with deeper sumps as specified; additional sheeting and changes in sheeting method and configuration to accommodate gas facility crossings; maintenance and protection of traffic; barricades; and installation of traffic plates that may be required to temporarily close and/or complete the work.

SECTION 6.03 - Removal Of Abandoned Gas Facilities. All Sizes.

1. Description:

Under this section the Contractor shall provide all labor, materials, equipment, insurance and, incidentals required for the removal of abandoned gas mains, services, or appurtenances thereof, located within the street shown on the contract plans, owned by gas company operating in the project area (facility operator), used or to be used for or in connection with or to facilitate the conveying, transportation, distribution or furnishing of gas (natural or manufactured or mixture of both) for light, heat, or power, but does not include property used solely for or in connection with business of selling, distributing or furnishing of gas in enclosed containers. Such removal shall include only abandoned gas facilities that interfere with (i.e. cause additional work) City work.

2. Determination Of Operating Status Of Gas Facilities:

The Contractor shall notify facility operator, as required by New York State Industrial Code 753. Gas facilities shall not be removed without the approval of the facility operator whose authorized representative shall certify in writing (specific facility or area wide facilities certification) and in a timely manner acceptable to the Resident Engineer that abandoned facilities are free of combustible gas and any other environmental contaminants prior to removal. The Resident Engineer shall rely on facility operator's certification. The facility operator may request the excavation of test pits (See Section 6.07) for this determination ahead of City work and, Contractor shall provide safe access, facilitate and permit facility operator to enter test pit excavations for the purpose of testing gas facilities to be removed by the Contractor. However, facility operator may prefer to make this test during performance of City work, in order to issue the above certification. This shall be permitted provided that it is agreed that additional costs, if any resulting from this choice shall be a matter of adjustment between the Contractor and facility operator only, and at no cost to the City.

3. Restrictions:

The facility operator shall be solely responsible for its contaminated gas facilities, surrounding contaminated soil and their disposal and abatement procedures, unless contract bid items are applicable and provided for such work. In such cases, the quantity removed shall be charged to EP-7 bid item "UTL- GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS" at the City bid prices.

4. Method Of Measurement:

Abandoned gas pipeline removal shall be measured for payment per linear foot of pipe and appurtenances removed.

5. Price To Cover:

The price shall cover all additional cost of supervision, labor, materials, equipment, and insurance necessary to complete this work in accordance with the contract plans and specifications, including excavation by hand around and under other City and facility operator owned properties and, where necessary, support and protection of such properties. The price shall also cover breaking, cutting, and/or burning of abandoned gas pipes and their disposal from the site; sealing open ends remaining in the excavation with concrete or caps (caps to be provided by the facility operator) and backfilling of the area where the pipeline has been removed with clean backfill. The price shall also include any required dump charges. This item does not include any type of extra excavation, backfilling, compaction, pavement removal and restoration associated with abandoned gas facilities removal, all of which are covered under Section 6.06.

SECTION 6.03.1 - Removal Of Abandoned Gas Facilities With Possible Coal Tar Wrap. All Sizes. (For National Grid Work Only)

1. Description:

Under this section the Contractor shall provide all labor, materials, equipment, insurance and, incidentals required for the removal of abandoned gas mains, services or appurtenances thereof, located within the street shown on the contract plans, owned by the gas company operating in the project area (facility operator), used or to be used for or in connection with or to facilitate the conveying, transportation, distribution or furnishing of gas (natural or manufactured or mixture of both) for light, heat, or power, but does not include property used solely for or in connection with business of selling, distributing or furnishing of gas in enclosed containers. Such removal shall include only abandoned gas facilities that interfere with (i.e. cause additional work) City work. These gas facilities may be coated with Coal Tar Wrap and so, may require special handling and disposal methods as specified in National Grid Standard Operating Procedure 12-2, Coal Tar Wrap Handling and 12NYCRR56.

2. Determination Of Operating Status Of Gas Facilities:

The Contractor shall notify facility operator, as required by New York State Industrial Code 753. Gas facilities shall not be removed without the approval of the facility operator whose authorized representative shall certify in writing (specific facility or area wide facilities certification) and in a timely manner acceptable to the Resident Engineer that abandoned facilities are free of combustible gas and any other environmental contaminants prior to removal. The Resident Engineer shall rely on the facility operator's certification. The facility operator may request the excavation of test pits (See Section 6.07) for this determination ahead of City work and, the Contractor shall provide safe access, facilitate and permit facility operator to enter test pit excavations for the purpose of testing gas facilities to be removed by the Contractor. However, the facility operator may prefer to make this test during performance of City work, in order to issue the above certification. This shall be permitted provided that it is agreed that additional costs, if any, resulting from this choice shall be a matter of adjustment between the Contractor and the facility operator only, and at no cost to the City contract. Should such investigation result in the determination that the abandoned gas facilities do not contain Coal Tar Wrap then the removal of said facilities shall be covered under separate item (See Section 6.03).

3. Requirements:

The City Contractor shall excavate abandoned gas facility sufficiently, either in its entirety, or at locations determined by Contractor to allow the removal of Coal Tar Wrap (if present on the abandoned gas facility) and to facilitate the safe extraction of manageable lengths of abandoned pipe without damage to adjacent facilities, utilities or City structures either parallel to or crossing above or below abandoned gas facility. The Contractor is to allow access to the designated cutting points within the Contractor's trench by authorized National Grid personnel who will remove the Coal Tar Wrap as per National Grid procedures. This work by National Grid personnel shall be performed in a timely fashion and shall not unduly impede the Contractor's progress and/or productivity. Upon completion of the coating removal, the Contractor shall be allowed to cut, burn or grind the gas facility and remove the section of abandoned pipe. The

Contractor at a site designated by the Contractor shall stockpile the removed pipe. The facility operator will be responsible to provide trucking and disposal services with its own personnel and shall remove the stockpiled pipes during off hours or during such time as agreed to by the Contractor. Since the pipe removed will remain the property of the facility operator and is to be disposed of by the facility operator, the facility operator shall be responsible for any required notifications, filings, dump charges and incidentals associated with the disposal of abandoned gas facilities found to contain Coal Tar Wrap.

4. Method Of Measurement:

Abandoned gas pipeline removal shall be measured for payment per linear foot of pipe and appurtenances removed.

5. Price To Cover:

The price shall cover all additional cost of supervision, labor, materials, equipment and insurance necessary to complete this work in accordance with the contract plans and specifications, including excavation by hand around and under other City and facility operator owned properties and, where necessary, the support and protection of such properties. The cost shall also include hand excavation in the area(s) of proposed abandoned pipe cut(s), cutting and/or burning of abandoned gas pipes and stockpile of removed sections of abandoned pipe and associated maintenance and protection of traffic, blocking and temporary fencing if required. The unit price shall also cover sealing open ends remaining in the excavation with concrete or end caps (end caps to be provided by the facility operator) and backfilling of the area where the abandoned pipeline has been removed with clean backfill material. This item does not include any type of extra excavation, backfilling, compaction, pavement removal and/or restoration (temporary and permanent) associated with abandoned pipe removal ("lost trench"), all of which are covered under separate Section 6.06. The price shall also include allowance for any loss of productivity by the Contractor due to required facility operator work to remove pipe coating and prepare pipe for cutting as well as any change in Contractor's excavation method, additional trucking and/or stockpiling costs.

SECTION 6.03.1a - Removal Of Abandoned Gas Facilities With Possible Coal Tar Wrap. All Sizes. (For Con Edison Work Only)

1. Description:

Under this section the Contractor shall provide all labor, material, equipment, insurance and, incidentals required to prepare abandoned gas mains, services and appurtenances thereof located within the street shown on contract plans, owned by the gas company operating in the project area (facility operator), for removal due to interference with proposed City work. These abandoned gas facilities were, at one time, used for or in connection with or to facilitate the conveying, transportation, distribution or furnishing of gas (natural, manufactured or a combination of both) for light, heat, or power, but does not include property used solely for or in connection with business of selling, distribution or furnishing of gas in enclosed containers. Such preparation for removal shall include only abandoned gas facilities that interfere with (i.e. cause additional work) City work. These gas facilities may be coated with Coal Tar Wrap which may contain asbestos or PCB's and so, may require special handling and disposal methods as specified in Con Edison - ASBESTOS MANAGEMENT MANUAL, CHAPTER 6 - ASBESTOS WORK PROCEDURES, SECTION 06.04 - COAL TAR WRAP REMOVAL. For under 25' (feet) in length and an approved NYC-DEP variance for over 25' (feet).

2. Determination Of Operating Status Of Gas Facilities:

The Contractor shall notify facility operator, as required by New York State Industrial Code 753. Gas Facilities shall not be removed without the approval of the facility operator whose authorized representative shall certify in writing (specific facility or area wide facilities certification) and in a timely manner acceptable to the Resident Engineer that abandoned facilities are free of combustible gas and any other environmental contaminants prior to removal. The Resident Engineer shall rely on the facility operator's certification. The facility operator may request the excavation of test pits (See Section 6.07) for

this determination ahead of City work and Contractor shall provide safe access, facilitate and permit facility operator to enter test pit excavations for the purpose of testing gas facilities. However, the facility operator may prefer to make this test during performance of City work in order to issue the above certification. This shall be permitted provided that it is agreed that additional costs, if any, resulting from this choice shall be a matter of adjustment between the Contractor and the facility operator only, and at no cost the City contract. Should such investigation result in the determination that the abandoned gas facilities do not contain Coal Tar Warp then the removal of said facilities shall be covered under separate item (See Section 6.03).

3. Requirements:

The Contractor shall excavate abandoned gas facility sufficiently, either in it's entirety, or at locations determined by Contractor to allow the removal of Coal Tar Wrap (if present on the abandoned gas facility) and to facilitate the safe extraction of manageable lengths of abandoned pipe without damage to adjacent facilities, utilities or city structures either parallel to or crossing above or below abandoned gas facility. The Contractor is to allow access to the designated cutting points within the Contractors trench by authorized Con Edison personnel who will remove the Coal Tar Wrap as per Con Edison and/or NYC-DEP approved procedures. This access shall conform to all applicable codes, rules & regulations. This work by Con Edison personnel shall be performed in a timely fashion and shall not unduly impede the Contractors progress and/or productivity. Upon completion of the coating removal, the Contractor shall be allowed to cut, burn or grind the gas facility and remove the section of abandoned pipe. Contractor shall designate a specific site to stockpile those removed pipes. The facility operator will be responsible to provide trucking and disposal services with its own personnel and shall remove the stockpiled pipes during off hours or during such time as agreed to by the Contractor. Since the pipe removed will remain the property of the facility operator and is to be disposed of by the facility operator, the facility operator shall be responsible for any required notifications, filings, dump charges and incidentals associated with the disposal of abandoned gas facilities found to contain Coal Tar Wrap.

4. Method Of Measurement:

Abandoned gas facility removal shall be measured for payment per linear foot of pipe and appurtenances removed.

5. Price To Cover:

The price shall cover all additional cost of supervision, labor, materials, equipment and insurance necessary to complete this work in accordance with the plans and specifications, including, but not limited to, excavation by hand around and under other City and facility operator owned properties and, where necessary, the support and protection of such properties. The cost shall also include hand excavation in the area(s) of proposed abandoned pipe cut(s), cutting and/or burning of abandoned gas pipes and stockpile of removed sections of abandoned pipe and associated maintenance of traffic, blocking and temporary fencing if required. The unit price shall also cover sealing open ends remaining in the excavation with concrete or end caps (end caps to be supplied by facility operator) and backfilling of the area where the abandoned pipeline has been removed with clean backfill material. This item does not include any type of extra excavation, backfilling, compaction, pavement removal and/or restoration (temporary and permanent) associated with abandoned pipe removal ("lost trench"), all of which are covered under separate Section 6.06. The price shall also include allowance for any loss of productivity by the Contractor due to required facility operator work to remove pipe coating and prepare pipe for cutting as well as any change in Contractor excavation method, additional trucking and/or stockpiling costs.

SECTION 6.04 - Adjust Hardware To Grade Using Spacer Rings/Adaptors. (Street Repaving.)

1. Description:

Under this section, the Contractor shall provide all labor, supervision, materials, equipment, insurance and

incidentals required to adjust to final grade gas street surface hardware located within the contract area boundaries shown on the plans. The gas company operating in the area, (facility operator), owns these facilities. The work shall be performed in accordance with the contract plans, specifications and at the directions of the Resident Engineer in concurrence with authorized representative of the facility operator.

2. Materials:

The facility operator shall furnish and deliver all prefabricated hardware parts required. These include adaptors for the grade adjustment proper and new street hardware if existing ones are found to be defective, all in accordance with the facility operator standards and City rules and regulations. The Contractor shall notify the facility operator of the installation schedule at least three (3) business days before materials are required on the site. Should the facility operator fail to deliver the necessary material according to any schedule mutually agreed upon by the Contractor and facility operator, the City shall not be responsible for any delays attributable thereto, nor for the failure of delivery of such materials. On project where material storage is not permitted on site, the facility operator shall deliver the required material to the Contractor's yard and it shall be the Contractor's responsibility to transport the material to the work site when needed for installation. It shall also be the Contractor's responsibility to inspect the materials to be installed by him immediately upon delivery and advise the facility operator through its authorized representative, of all damaged materials. The Contractor at no additional expense to the City or the facility operator shall replace any material that is damaged or lost after the Contractor's inspection.

3. Method Of Measurement:

The Contractor shall be paid for each six (6) inch round box and/or nine (9) inch square box adjusted to grade regardless of adjustment height requirements.

4. Price To Cover:

The unit price bid for this item shall include all additional labor, supervision, insurance, equipment and material (except those to be provided by the facility operator), required to adjust each box to grade as required in the contract plans and specifications. The bid price shall also include the removal of existing frames and covers from existing facilities to be salvaged and returned to the facility operator and, all material transportation from the Contractor's material storage yard to the work site. In addition the bid price shall include "chipping" around existing box using appropriate means and methods where grinding is required.

SECTION 6.05 - Adjust Hardware To Grade By Resetting. (Road Reconstruction.)

1. Description:

Under this item, the Contractor shall provide all labor, supervision, materials, equipment, insurance and incidentals required to adjust to the proposed grade gas street surface hardware located within the contract area boundaries shown on the plans. The gas company operating in the area, (facility operator), owns these facilities. The work shall consist of either building up or lowering or resetting the casting by removing the existing frame and cover building up or decreasing the existing installation, replacing the frame and/or cover if damaged or worn out, as determined by the Resident Engineer, with a new frame and/or cover furnished by the owner, and setting the frame and cover to new elevation. The work shall be performed in accordance with the contract plans, specifications and at the directions of the Resident Engineer.

2. Materials:

The facility operator shall furnish and deliver all new hardware parts required. The Contractor shall furnish materials such as mortar, bricks and concrete in compliance with contract requirements. At locations where high-early strength concrete is required under this contract to be placed adjacent to gas facilities, then the requirement for concrete shall be high-early strength complying with the current New York State Department of Transportation, Standard Specifications for Class F concrete. Existing castings may be

replaced as required and deemed necessary by the Engineer and by City rules and regulations. The Contractor shall install the new castings of various sizes furnished by the facility operator. The Contractor shall notify the facility operator of the installation schedule at least three (3) business days before materials are required on the site and, shall provide off-loading services to the facility operator. Should the facility operator fail to deliver the necessary material according to any schedule mutually agreed upon by the Contractor and facility operator, the City shall not be responsible for any delays attributable thereto, nor for the failure of delivery of such materials. Such delays shall be a matter of adjustment between the Contractor and the facility operator. On project where material storage is not permitted on site, the facility operator shall deliver the required material to the Contractor's yard and it shall be the Contractor's responsibility to transport the material to the work site when needed for installation. It shall also be the Contractor's responsibility to inspect the materials to be installed by him, immediately upon delivery and advise the facility operator through its authorized representative, of all damaged materials. The Contractor at no additional expense to the City or the facility operator shall replace any material that is damaged or lost after the Contractor's inspection.

3. Methods Of Construction:

The Contractor shall remove and reinstall existing castings or install new castings to the proposed grade. Setting and resetting the castings shall be done with mortar and brick according to the standards of the facility operator. Work shall be performed in a workmanlike manner. Castings that are deemed unacceptable for resetting shall remain the property of the facility operator and he shall be responsible for their removal and proper disposal from site. No traffic shall be allowed on adjusted street hardware until permitted by the Engineer.

4. Method Of Measurement:

The Contractor shall be paid for each gas hardware adjusted to grade regardless of size or adjustment height requirements (up or down).

5. Price To Cover:

The unit price bid for this item shall include all additional labor, supervision, insurance, equipment and, material (except those to be provided by the facility operator), required to adjust each gas hardware to grade as required in the contract plans and specifications. The bid price shall also include the removal of existing frames and covers from existing facilities; building up the existing installations with bricks and mortar, or lowering the existing installation by removing bricks and mortar; replacing damaged frames and/or covers with new frames and/or covers furnished by the facility operator; setting the frames and covers to the new elevations; protect existing installations; repair minor structural damages to existing installations prior to resetting frames; unloading of furnished castings at the Contractor's yard and transporting castings from the Contractor's yard to the job site as required; completing the work in accordance with the contract plans, specifications and, at the directions of the Engineer. In addition the bid price shall include "chipping" around existing gas facilities using appropriate means and methods where grinding is required.

SECTION 6.06 - Special Care Excavation And Backfilling.

1. Description:

Under this section, the Contractor shall provide all labor, materials, equipment, insurance and incidentals required to support and protect the integrity of live gas facilities including mains, services, related structures and appurtenances during excavations. The gas company operating in the area, (facility operator), owns these facilities. The work shall be performed in accordance with the contract plans, specifications and at the directions of the Resident Engineer in consultation with authorized representatives of the facility operator.

2. Applicability Of Section:

This section shall apply to live gas facilities of various sizes located within two (2) feet of any face of unsheeted excavation, (unsheeted excavation refers to any excavation performed for city work and includes

excavations performed that are to be subsequently sheeted using approved methods) and paralleling or, encroaching any face of excavation. Also, for crossings greater than forty-five (45) degrees and/or located at a cover depth greater than five (5) feet from existing street surface. Parallel facilities are not exposed at any time during excavation (See "Gas Cost Sharing Work Standard Sketch No. 5"). Encroaching facilities are partially exposed inside the limit of excavation (See "Gas Cost Sharing Work Standard Sketch No. 5"). This section shall also apply to gas facilities crossing catch basins excavation, and catch basins sewer connections (chutes) trench excavation only when extra depth (covered in other section), is not required for chutes installations because of such utilities interferences (See "Gas Cost Sharing Work Standard Sketch No. 3"). This section shall also apply to gas services (if shown or otherwise listed in contract documents) crossing unsheeted excavations for water mains, gas facilities crossing fire hydrant branch connections, house sewer and/or water service connections excavations. This section shall also apply for so called "loss trench", as described further, and for additional excavation (pavement and/or soil), backfilling, compaction, roadway base and pavement restoration due to abandoned gas facilities, only if removed by Contractor. If operating status of gas facilities cannot be determined prior to excavation then such facilities shall be considered live and this section shall fully apply. The excavation around fully exposed live gas facilities along and within limits of excavation (not crossings) shall be covered by this section also (not shown on "Gas Cost Sharing Work Standard Sketch No. 5"), however the support requirement, if any is required, of such facilities is beyond the scope of these specifications and therefore shall be the responsibility of facility operator to determine and prescribe, at no cost to the City contract, but shall be a matter of adjustment between the Contractor and facility operator.

3. Payment Restriction:

No special care excavation shall be paid for abandoned gas facilities paralleling and/or encroaching excavation and therefore are not in direct interference with City work. Except as allowed in this section, the bid item specified under this section shall not be used in combination with items covered under other sections for work done due to a particular gas facility. This item shall not be paid for new gas facilities when trenching for such new facilities has been performed by the Contractor of record in common with trench excavation for City Work (overlapping trench limits). The cost of excavating with care as defined in this section shall be deemed included in the cost of trench excavation for the new gas facilities. This restriction shall apply even if such gas common trench excavation is not part of the contract. If facilities are in direct interference with City work, meaning that "Minimum Clearances" described in "General Provisions; Gas Cost Sharing Work Paragraph No. 8" cannot be maintained and excavation has to be temporarily or permanently abandoned then this particular location shall become a test pit and dealt with as specified in Section 6.07 and "General Provisions; Gas Cost Sharing Work Paragraphs Nos. 2 and 8".

4. Method Of Construction:

All excavation in the vicinity of gas facilities shall be as required by NYS Industrial Code 753. Where these facilities are paralleling and located two (2) feet or less from the limits of the proposed excavation, the Contractor shall use hand excavation methods (pick and shovel or hand held power tools) to ascertain the clearances of these facilities with respect to the proposed excavation. Once the location of these facilities with respect to the proposed excavation is verified to the satisfaction of the Resident Engineer, the Contractor shall then proceed with a combination of hand and machine excavation as required preserving the integrity of the facilities. The installation of timber supports or underpinning, when soil foundation cannot fully support partially exposed pipes, may be required to prevent pipe movement as directed by the Resident Engineer.

5. Method Of Payment:

The unit price for this work item shall be based on cubic yard (CY) of average excavation with care and, is to be considered as an incremental cost for performing City work with gas facilities interferences.

6. Method Of Measurement:

- A. For Paralleling Facilities: Volume calculated as: Depth as measured from existing street surface to the bottom of unsheeted trench excavation allowable by OSHA regulations, multiplied by, the width

measured as one (1) foot from the face of excavation toward the center of excavation, multiplied by the length of parallel facility, divided by twenty-seven (27) cubic feet per cubic yard (See "Gas Cost Sharing Work Standard Sketch No. 5"). The gas facility is no longer considered to be in interference once sheeting has been installed, therefore no further compensation for paralleling facilities as described above will be made.

- B. For Encroaching Facilities: Volume calculated as: Depth of trench as allowable by OSHA, maximum up to five (5) feet multiplied by, the width of partially exposed pipe plus one (1) foot, multiplied by the length of facility encroachment, divided by twenty-seven (27) cubic feet per cubic yard (See "Gas Cost Sharing Work Standard Sketch No. 5").
- C. Fully Exposed Gas Facilities: (Not shown on "Gas Cost Sharing Work Standard Sketch No. 5") along and inside trench and/or crossing trench at an angle greater than forty-five (45) degrees and/or a cover depth greater than five (5) feet from the existing street surface. The volume shall be measured as the depth of trench excavation multiplied by the distance measured along the sheeting line between two (2) points of intersections of the gas facilities and the sides of trench excavation, multiplied by the width of trench excavation.
- D. For Additional Excavation And Restoration Due To So Called "Loss Trench", When The Integrity Of Pavement And Soil Above And Around Existing Live Gas Facilities Cannot Be Maintained Due To Its Lack Of Cohesiveness: Volume shall be calculated as: Depth of unsheeted trench excavation multiplied by width measured as distance of facility from closest edge of unsheeted excavation plus, width of facility proper plus, one (1) foot or a maximum width of three (3) feet multiplied by length of facility fully exposed divided by, twenty-seven (27) cubic feet per cubic yard (not shown on "Gas Cost Sharing Work Standard Sketch No. 5").
- E. For Facilities Crossing Excavation For Catch Basins, Or Chutes Installations (When NYCDEP Funded) Or Fire Hydrant Branch Connections, Or Unsheeted Water Main Trench, Or House Sewer And/Or Water Services: Volume calculated as: Depth as measured from existing street surface to the bottom of the trench excavation multiplied by, the width taken as the outside diameter of pipe or the width of structure plus one (1) foot on either side (two (2) feet), multiplied by, the length of exposed facility crossing the trench, divided by twenty-seven (27) cubic feet per cubic yard (not shown on "Gas Cost Sharing Work Standard Sketch No. 5").

Overlapping volume dimensions measured as described above may occur when multiple facilities are paralleling excavations, encroaching excavations or crossing catch basins and catch basin chute installations. In such cases, all such facilities shall be counted as one limited by the extreme pipes, faces (See "Gas Cost Sharing Work Standard Sketch No. 2"). The volume shall then be calculated as described above.

7. Price To Cover:

The bid price shall also cover all additional supervision, labor, material, equipment and insurance necessary to excavate while protecting and maintaining (excluding supports for fully exposed live gas) gas facilities without disruption of service to the public and in accordance with contract specifications. The price shall also include, changes of sheeting method and excavation width configuration where necessary to accommodate gas facilities in their existing locations; difficulties during the installation of catch basins, chute connections, hydrant branch, and house sewer and water connections under or over gas facilities; loss of productivity due to slower rate of excavation (special care) during excavation, including the use of such methods as: hand excavation around existing single and multiple facilities, extra excavation and backfilling due to lost trench because of existing and adjacent gas facilities, compaction, removal of sheeting from the facilities, extra roadway base restoration and temporary pavement, associated maintenance and protection of traffic, barricades, and traffic plates that may be required to temporarily close and/or complete the work.

SECTION 6.06A - Special Care Excavation and Backfilling for Transmission Mains.
(Transmission Main is described as any gas main with a MAOP greater than 124 psig)

1. Description:

Under this section, the contractor shall provide all labor, materials (except for sand to be utilized for backfill of a one-foot envelope around the facility to be furnished by the facility operator), equipment, and incidentals required to support and protect the integrity of Gas Transmission Main during excavations. This facility is owned by the gas company operating in the area, hereafter referred to as facility operator. The work shall be performed in accordance with the contract plans, specifications and at the directions of the Resident Engineer in consultation with authorized representatives of the facility operator.

2. Applicability of Section:

This section shall apply to Transmission Main of various sizes located within any excavation sheeted or unsheeted (excavation refers to any excavation performed for city work and includes excavations performed that are to be subsequently unsheeted/sheeted using approved shoring methods and paralleling, encroaching, and crossing any excavation. Parallel facilities are not exposed at any time during excavation (within 2' of edge of excavation)). Encroaching facilities are partially/fully exposed inside the limit of excavation. This section shall also apply to gas facility crossing catch basins excavation and catch basins sewer connections (chutes), water mains, fire hydrant branch connections, sanitary sewer, storm sewer, combination sewer, house sewer and/or water service connections excavations. The excavation around fully exposed live gas facilities along and within limits of excavation shall be covered by this section also, however the support requirement, if any is required, of such facilities is beyond the scope of these specifications and therefore shall be the responsibility of facility operator to determine and prescribe, at no cost to the City contract, but shall be a matter of adjustment between the contractor and facility operator.

3. Payment Restriction:

The bid item specified under this section shall not be used in combination with items covered under other sections for work done due to a particular gas facility. This item shall not be paid for new gas facilities when trenching for such new facilities has been performed by the contractor of record in common with trench excavation for City Work (overlapping trench limits). The cost of excavating with care as defined in this section shall be deemed included in the cost of trench excavation for the new gas facilities. This restriction shall apply even if such gas common trench excavation is not part of the contract. If facilities are in direct interference with City work, meaning that "minimum clearances" described in the General Provisions for Gas Cost Sharing (Para. No.8) cannot be maintained, the excavation shall be abandoned and the contractor shall be compensated as per the provisions specified in Paragraphs Nos. 5 and 6 of this item (6.06A).

4. Method of Construction:

All excavations in the vicinity of gas facilities shall be as required by NYS Industrial Code 753. No saw cutting of pavement or masonry for gas mains having less than 2 feet of cover to break asphalt/concrete as determined by the facility operator. The contractor shall use power excavation for the removal of pavement or masonry but only to the depth of such pavement or masonry **(breaking of pavement or masonry shall be done by means of hand held pneumatic breaking equipment)**. Upon removal of pavement or masonry the contractor shall use hand excavation methods only **(pick and shovel; no power tools)** to ascertain the clearances of these facilities with respect to the proposed excavation. Once the location of these facilities with respect to the proposed excavation is verified to the satisfaction of the Resident Engineer and the facility operator the contractor shall then proceed with hand only within the zone of protection described as 2 feet from the face of the facility in all directions of the facility as required to preserve the integrity of the facility. Once outside of the zone of protection as described above the contractor may use a combination of hand and machine to complete the excavation.

5. Method of Payment:

The unit price for this work item shall be based on cubic yard (CY) of average excavation with special care and, is to be considered as an incremental cost for performing City work with gas facilities interferences.

6. Method of Measurement:

A. For Paralleling Facilities:

Volume calculated as: Depth as measured from existing street surface to the bottom of facility, multiplied by, the width measured as two (2) feet from the face of excavation toward the center of excavation, multiplied by the length of parallel facility, divided by twenty-seven (27) cubic feet per cubic yard. Only hand excavation shall be utilized within the zone of protection identified as 2 feet from face of facility, beyond 2 feet from the face of facility the contractor can use a combination of hand and machine.

B. For Encroaching Facilities:

Volume calculated as: Depth as measured from existing street surface to the bottom of facility, multiplied by, the width measured as two (2) feet plus the exposed facility toward the center of excavation, multiplied by the length of the encroached facility, divided by twenty-seven (27) cubic feet per cubic yard. Only hand excavation shall be utilized within the zone of protection identified as 2 feet from face of facility, beyond 2 feet from the face of facility the contractor can use a combination of hand and machine.

C. Fully Exposed Gas Facilities:

Volume calculated as: Depth as measured from existing street surface to the bottom of facility, multiplied by, the width measured as two (2) feet from the face of the facility on either side plus

the facility, multiplied by the length of the facility, divided by 27 cubic feet per cubic yard. Only hand excavation shall be utilized within the zone of protection identified as 2 feet from face of facility in all directions, beyond 2 feet from the face of facility in all directions the contractor can use a combination of hand and machine.

D. For Additional Excavation And Restoration Due To So Called "Loss Trench", When The Integrity Of Pavement And Soil Above And Around Existing Live Gas Facilities Cannot Be maintained Due To Its Lack of Cohesiveness:

Volume shall be calculated as: Depth of unsheeted trench excavation multiplied by width measured as distance of facility from closest edge of unsheeted excavation plus, width of facility proper plus, one (1) foot or a maximum width of three (3) feet multiplied by length of facility fully exposed divided by, twenty-seven (27) cubic feet per cubic yard (not shown on "Gas Cost Sharing Work Standard Sketch No. 5").

E. For Facilities Crossing Excavation For Catch Basins, Or Chutes Installations (When NYCDEP Funded) Or Fire Hydrant Branch Connections, Or Unsheeted Water Main Trench, Or House Sewer And/Or Water Services:

Volume calculated as: Depth as defined above multiplied by, the width taken as the outside diameter of pipe or the width of structure plus one (1) foot on either side (two (2) feet), multiplied by, the length of exposed facility crossing the trench, divided by twenty-seven (27) cubic feet per cubic yard (not shown on "Gas Cost Sharing Work Standard Sketch No. 5").

7. Price to Cover:

The bid price shall also cover all additional supervision, labor, material, equipment and insurance necessary to excavate while protecting and maintaining (excluding supports for fully exposed live gas) gas facilities without disruption of service to the public and in accordance with contract specifications. The price shall also include, changes of sheeting method and excavation width configuration where necessary to accommodate gas facilities in their existing locations; difficulties during the installation of catch basins, chute connections, hydrant branch, and house sewer, sanitary sewer, storm sewer, combination sewer and water connections under or over gas facilities; loss of productivity due to slower rate of excavation (special care) during excavation, compaction, removal of sheeting from the facilities, extra roadway base restoration and temporary pavement, associated maintenance of traffic, barricades, and traffic plates that may be required to temporarily close and/or complete the work. Breaking shall be done by means of hand held pneumatic breaking equipment. Inspection of exposed mains shall be performed by facility operator in a timely fashion and shall not unduly impede contractor's progress or productivity.

SECTION 6.07 - Test Pits For Gas Facilities.**1. Description:**

Under this section, the Contractor shall furnish all labor, materials, insurance, equipment and appliances necessary to excavate, sheet and, maintain test pits at locations approved by the Resident Engineer in consultation with the facility operator. Test pits shall be dug in order to ascertain exact locations, cover and invert elevations, clearances, alignment and operating status (live or dead) of existing gas facilities. The Contractor shall inspect jointly with the Resident Engineer and facility operator, gas facilities and other structures uncovered, take all relevant measurements and elevations as directed by the Resident Engineer. Tests to determine operating status of gas facilities shall be performed by facility operator. The pits shall be covered with steel plates during daytime nonworking hours, and uncovered, as required, until the inspection work is completed. Testing of gas facilities may require a maximum of four (4) hours. Then, the pits shall be backfilled with clean fill, and resurfaced with temporary pavement. All traffic shall be maintained and all safety measures as stipulated shall be complied with.

2. Methods Of Construction:

- A. **Excavation:** Existing pavement to be removed shall be neatly cut along lines of removal with a saw or other approved equipment which leaves a neat straight joint line along the juncture with subsequently replaced pavement. Excavation in the vicinity of utilities and other structures shall be performed using hand tools. Use of hand operated pneumatic and electric jackhammers will be permitted only for breaking pavement and removal of masonry, concrete and boulders, or as otherwise directed by the Resident Engineer. The Contractor shall properly dispose of all materials excavated from test pits away from site. Test pits shall be excavated at locations shown on the contract drawings or as directed by the Resident Engineer. Additional test pits may be required and shall be excavated where required, as ordered by the Resident Engineer. All test pits shall be excavated to a depth and size necessary to locate the existing facilities. Sheet piling shall be used when depth of excavation exceeds five (5) feet. The sheet piling required shall be furnished and installed in full compliance with the State of New York and Federal Safety Codes requirements and as specified in contract, whichever is more stringent. Care shall be taken that no existing gas facilities or other structures are broken or damaged. All broken or damaged facilities shall be reported immediately to facility operator who shall decide whether such facilities shall be repaired or replaced by company forces or by City contractor and in conformance with "General Provisions; Gas Cost Sharing Work Paragraph No. 9". Contractor shall excavate all material encountered, including large masses of concrete, cemented masonry and boulders, as directed by the Resident Engineer. Any type of excavation protection used, shall satisfy the following:

- (a) Industrial Code Rule 753.
- (b) Prevent injury to workers and the public, and avoid damage to existing water, sewer, and gas pipes or other structures, and to pavements and their foundations, through caving or sliding of the banks of the excavation.

Should it become necessary, as determined by the Resident Engineer, to enlarge any test pit in any dimension after sheet piling has been placed, the Contractor shall remove portions of the sheet piling, as necessary, enlarge the test pits as directed, and replace the sheet piling without additional compensation for this work other than for the additional volume of material excavated.

- B. **Maintenance Of Test Pits:** Excavated test pits shall be maintained free of debris and kept dry by the Contractor in order to permit the inspection and measurements and to determine the locations of facilities. In order to accomplish this, Contractor shall, upon completion of excavation and placement of sheet piling (if depth greater than five (5) feet), furnish and install adequate steel plates and posting over the excavated pits and shall temporarily remove all equipment debris and workers, and relocate barricades in order to open the full width of street to traffic during nonworking hours. The Contractor shall then, at no additional cost, relocate such barricades, barrels, cones and other warning devices and remove steel plates, as and when directed by the Resident Engineer to facilitate the inspection of

exposed facilities. When work is being performed and the pits are not covered with steel plates, the Contractor shall provide complete and safe access to the test pits as may be required, and he shall provide construction barricades and maintain traffic at all times as shown or as directed by the Resident Engineer. Upon completion of test pit inspection by the Resident Engineer, the pit shall be backfilled by the Contractor as specified in contract, except that backfill material shall conform to contract specifications for such purpose.

- C. **Pavement And Sidewalk Restoration:** After backfilling is completed, the Contractor shall construct a temporary pavement consisting of a minimum of four (4) inches thick asphaltic concrete mixture in roadway areas or a two (2) inches thick asphaltic concrete mixture in sidewalk areas in order to maintain existing pedestrian and vehicular traffic. This temporary pavement shall be maintained until permanent pavement and sidewalk replacement is constructed as specified in contract.

3. Measurements:

The quantity to be measured for payment shall be the number of cubic yards of material removed from within the limits of the pit dimensions as directed by the Resident Engineer. The volume occupied by existing pipes or other structures remaining within the maximum payment lines will not be deducted from the total volume measured except, where the cross sectional area of these facilities exceeds four (4) square feet. As determined by the Resident Engineer, the quantity measured for payment may be proportionate to a fair and reasonable estimate of gas responsibility in the total volume excavated.

4. Price To Cover:

The contract price bid per cubic yard for test pits shall cover all additional costs of labor, material, insurance, equipment, appliances and incidentals required to excavate test pits, including removal and disposal of excavated materials, sheeting, steel plating, backfill, compaction and temporary pavement and sidewalk restoration all in accordance with the specifications and as directed by the Resident Engineer. The price shall also include the cost of providing safe access to the excavation by facility operator for the performance of certain test to determine operating status of gas facilities prior to City work. The price shall also include support and protection of all gas facilities crossing excavation, paralleling and/or encroaching any face of excavation.

SECTION 6.08 - "NO TEXT"

SECTION 6.09 - Trench Excavation and Backfill for New Gas Mains and Services (For National Grid Work Only)

1. Description:

Under this section, the contractor shall furnish all labor, materials, equipment, insurance, permits and incidentals required to break/remove roadway and sidewalk pavement, excavate, backfill and restore gas trenches. The trench to be excavated shall be determined by the size of the gas facility to be installed. The work shall be performed in accordance with applicable specifications, and/or at the direction of the Resident Engineer in consultation with the facility operator.

2. Materials:

All materials used to excavate and prepare trenches shall be supplied by the Contractor and be approved by the facility operator in consultation with the Resident Engineer.

3. Method of Construction:

Excavation – The Contractor shall saw cut and/or break and remove existing roadway which may include

but is not limited to, asphalt, concrete and cobblestone, utilizing approved equipment that leaves a neat straight joint line along the juncture with subsequently replaced pavement. Prior to starting the trenching operation, the contractor shall excavate the appropriate gas main tie-in pits at the extremities of the gas main sections to be replaced. Test pits shall be excavated to determine exact location of all tie-in pits and at appropriate intervals along proposed trench excavation to verify lane and clearances as shown on the contract plans. The tie-in pits shall be adequately protected by the contractor using wood fencing or steel traffic plates until such time when the facility operator has completed the tie-in work. The Contractor shall be permitted to excavate utilizing a combination of machine and hand excavation, as field conditions warrant, and as directed by the facility operator. The trench shall be adjusted so as to provide for a nominal cover on the new gas facilities or as required based on field conditions, applicable specifications, or as directed by the facility operator in consultation with the Resident Engineer. The width of the trench shall be as directed by the facility operator in consultation of the Resident Engineer. The bottom of the trench shall be graded smooth with a minimum cushion of 3 inches of clean sand and in conformance with applicable specification and be compacted, to minimize initial settlement and to avoid "point" support of new gas facilities. All stones projecting into the trench bottom shall be removed, and the voids backfilled before the new gas facilities are installed. Where streets are not to final grade, the cover shall be measured from the final grade, or the existing grade, whichever provides the deeper trench. Excavation in the vicinity of utilities and other structures shall be performed using hand tools. The contractor shall properly dispose of all materials excavated away from site. Size and location of excavation shall be as directed by the facility operator in consultation with the Resident Engineer. Trenches shall be excavated to a depth and size necessary to facilitate the installation of the new gas facility and in conformance with the applicable specification. All existing facilities that are encountered during trench excavating shall be protected in a manner suitable to the facility operator in consultation with the Resident Engineer. Tight sheeting shall be used, as required, based on field conditions and/or when the depth of excavation is equal to or greater than five feet. Skeleton type sheeting will not be permitted. The sheeting required shall be furnished and installed in full compliance with the State of New York and Federal Safety Code requirements and in compliance with applicable specifications and/or as directed by the facility operator in consultation with the Resident Engineer. Care shall be taken that no existing gas facilities or other structures are broken or damaged. Contractor shall excavate all material encountered necessary to facilitate the installation of the new gas facilities, and as directed by the facility operator. Care should be taken to avoid damage to existing utility facilities and structures, and to pavements and their foundations, and to avoid caving or sliding banks within the excavation.

Maintenance of Trench Excavation - Excavated trenches shall be maintained free of debris and kept dry by the contractor. In order to accomplish this, contractor shall, upon completion of excavation and placement of sheeting (as required and/or if depth is equal to or greater than five feet), furnish and install adequate steel plates, as directed by the facility operator in consultation with the Resident Engineer, and posting over the excavated trenches and shall temporarily remove all equipment debris and workers, and relocate barricades in order to open the full width of street to traffic during non-working hours, as required based on DOT requirements. National Grid forces will perform all live gas main connections, dead gas main cut-outs, and/or service work associated with disconnecting and reconnecting from old to new gas main. The Contractor shall then, at no additional cost, relocate such barricades barrels, cones and other warning devices and remove steel plates, as and when directed by the facility operator in consultation with the Resident Engineer to facilitate the installation of the new gas facilities. When work is being performed and the excavations are not covered with steel plates, the Contractor shall provide complete and safe access to the trench as may be required, and shall provide construction barricades and maintain traffic at all times as shown or as directed by the facility operator in consultation with the Resident Engineer. The contractor has the responsibility to maintain and set to grade all National Grid hardware during backfill and pavement restoration. Upon completion of installation of the new gas facility, the trench excavation shall be backfilled by the contractor in accordance with Contract requirements and all backfill material shall conform to contract specifications for such purpose.

Pavement and Sidewalk Restoration - After backfilling is completed, the contractor shall install temporary pavement consisting of six inches (6") thick asphaltic concrete mixture in roadway areas or a two inches (2") thick asphaltic concrete mixture in sidewalk areas in order to maintain existing pedestrian and vehicular traffic. This temporary pavement shall be maintained until permanent replacement as specified in contract. Permanent pavement restoration shall be as required by the appropriate contract specifications and as

directed by the Resident Engineer.

4. Method of Measurement:

The quantity to be measured for payment shall be the number of cubic yards (C.Y.) of trench actually excavated, including roadway pavement, base and/or sidewalk concrete removed within the limits of the trench as directed by the Resident Engineer in consultation with the facility operator. The volume occupied by existing pipes or other structures will be deducted from the total volume measured as shown on contract drawing(s) Title: EP-7 SECT. 6.09 GAS SPECIALTY CONTRACTOR WORK, or as encountered based on existing field conditions.

5. Price to Cover:

The unit price bid per cubic yard for excavation shall include the cost of all supervision, labor, material, equipment, insurance and incidentals necessary to complete excavation trenches, including backfill, compaction testing and restoration of trenches and tie-ins pits as specified or shown on the contract, plans. The bid price shall also include the cost of coordinating the sewer and water main work to be performed by the contractor with the gas installation work to be performed by others. The price shall also include, associated maintenance of traffic, and traffic plates and openings and closings of plates as may be required in order to provide access to the facility operator during the new gas facility installation, and installing, removing and maintaining tight sheeting that may be required, cut, break and remove various thickness of surface and base pavement, excavate by hand, furnish, place and compact, in compliance with DOT requirements, clean sand backfill following installation of the gas facility. Any required removing, trucking, storing, and disposing of material shall be deemed included in the unit price. The price shall also include the cost of providing temporary pavement restoration. Permanent pavement restoration shall be deemed included in this item, as required and as directed by the Resident Engineer.

SECTION 6.09a Trench Excavation and Backfill for New Gas Mains and Services (For Con Edison Work Only)

1. Description:

Under this section, the contractor shall furnish all labor, materials, equipment, insurance, permits and incidentals required to break/remove roadway and sidewalk pavement, excavate, backfill and restore gas trenches. The trench to be excavated shall be determined by the size of the gas facility to be installed. The work shall be performed in accordance with applicable specifications, and/or at the direction of the Resident Engineer in consultation with the facility operator.

2. Materials:

All materials used to excavate and prepare trenches shall be supplied by the Contractor and be approved by the facility operator in consultation with the Resident Engineer. Clean sand backfill material shall be used and shall conform to Con Edison specification EO-1181-rev.6, General Specification for Backfilling of Trench and Small Openings.

3. Method of Construction:

Excavation – The Contractor shall saw cut and/or break and remove existing roadway which may include but is not limited to, asphalt, concrete and cobblestone, utilizing approved equipment that leaves a neat straight joint line along the juncture with subsequently replaced pavement. Prior to starting the trenching operation, the contractor shall excavate the appropriate gas main tie-in pits at the extremities of the gas main sections to be replaced. Test pits shall be excavated to determine exact location of all tie-in pits and at appropriate intervals along proposed trench excavation to verify lane and clearances as shown on the contract plans. The tie-in pits shall be adequately protected by the contractor using wood fencing or steel traffic plates until such time when the facility operator has completed the tie-in work. The Contractor shall be permitted to excavate utilizing a combination of machine and hand excavation, as field conditions warrant, and as directed by the facility operator. The trench shall be adjusted so as to provide for a nominal

cover on the new gas facilities or as required based on field conditions, applicable specifications, or as directed by the facility operator in consultation with the Resident Engineer. The width of the trench shall be as directed by the facility operator in consultation of the Resident Engineer. The width and depth of the trench shall conform to Con Edison Gas Operations drawing 309495 rev. 4, Trench Excavation for Gas Mains Up to 350 PSIG, or as directed by the facility operator in consultation of the Resident Engineer. The bottom of the trench shall be graded smooth with a minimum cushion of 3 inches of clean sand and in conformance with applicable specification and be compacted, to minimize initial settlement and to avoid "point" support of new gas facilities. All stones projecting into the trench bottom shall be removed, and the voids backfilled before the new gas facilities are installed. Where streets are not to final grade, the cover shall be measured from the final grade, or the existing grade, whichever provides the deeper trench. Excavation in the vicinity of utilities and other structures shall be performed using hand tools. The contractor shall properly dispose of all materials excavated away from site. Size and location of excavation shall be as directed by the facility operator in consultation with the Resident Engineer. Trenches shall be excavated to a depth and size necessary to facilitate the installation of the new gas facility and in conformance with the applicable specification. All existing facilities that are encountered during trench excavating shall be protected in a manner suitable to the facility operator in consultation with the Resident Engineer. Tight sheeting shall be used, as required, based on field conditions and/or when the depth of excavation is equal to or greater than five feet. Skeleton type sheeting will not be permitted. The sheeting required shall be furnished and installed in full compliance with the State of New York and Federal Safety Code requirements and in compliance with applicable specifications and/or as directed by the facility operator in consultation with the Resident Engineer. Care shall be taken that no existing gas facilities or other structures are broken or damaged. Contractor shall excavate all material encountered necessary to facilitate the installation of the new gas facilities, and as directed by the facility operator. Care should be taken to avoid damage to existing utility facilities and structures, and to pavements and their foundations, and to avoid caving or sliding banks within the excavation.

Maintenance of Trench Excavation - Excavated trenches shall be maintained free of debris and kept dry by the contractor. In order to accomplish this, contractor shall, upon completion of excavation and placement of sheeting (as required and/or if depth is equal to or greater than five feet), furnish and install adequate steel plates, as directed by the facility operator in consultation with the Resident Engineer, and posting over the excavated trenches and shall temporarily remove all equipment debris and workers, and relocate barricades in order to open the full width of street to traffic during non-working hours, as required based on DOT requirements. Con Edison forces will perform all live gas main connections, dead gas main cut-outs, and/or service work associated with disconnecting and reconnecting from old to new gas main. The Contractor shall then, at no additional cost, relocate such barricades barrels, cones and other warning devices and remove steel plates, as and when directed by the facility operator in consultation with the Resident Engineer to facilitate the installation of the new gas facilities. When work is being performed and the excavations are not covered with steel plates, the Contractor shall provide complete and safe access to the trench as may be required, and shall provide construction barricades and maintain traffic at all times as shown or as directed by the facility operator in consultation with the Resident Engineer. The contractor has the responsibility to maintain and set to grade all Con Edison hardware during backfill and pavement restoration. Upon completion of installation of the new gas facility, the trench excavation shall be backfilled by the contractor in accordance with Contract requirements and all backfill material shall conform to contract specifications for such purpose.

Pavement and Sidewalk Restoration - After backfilling is completed, the contractor shall install temporary pavement consisting of six inches (6") thick asphaltic concrete mixture in roadway areas or a two inches (2") thick asphaltic concrete mixture in sidewalk areas in order to maintain existing pedestrian and vehicular traffic. This temporary pavement shall be maintained until permanent replacement as specified in contract. Permanent pavement restoration shall be as required by the appropriate contract specifications and as directed by the Resident Engineer.

4. Method of Measurement:

The quantity to be measured for payment shall be the number of cubic yards (C.Y.) of trench actually excavated, including roadway pavement, base and/or sidewalk concrete removed within the limits of the trench as directed by the Resident Engineer in consultation with the facility operator. The volume occupied

by existing pipes or other structures will be deducted from the total volume measured as shown on contract drawing(s) Title: EP-7 SECT. 6.09 GAS SPECIALTY CONTRACTOR WORK, or as encountered based on existing field conditions.

5. Price to Cover:

The unit price bid per cubic yard for excavation shall include the cost of all supervision, labor, material, equipment, insurance and incidentals necessary to complete excavation trenches, including backfill, compaction testing and restoration of trenches and tie-ins pits as specified or shown on the contract, plans. The bid price shall also include the cost of coordinating the sewer and water main work to be performed by the contractor with the gas installation work to be performed by others. The price shall also include, associated maintenance of traffic, and traffic plates and openings and closings of plates as may be required in order to provide access to the facility operator during the new gas facility installation, and installing, removing and maintaining tight sheeting that may be required, cut, break and remove various thickness of surface and base pavement, excavate by hand, furnish, place and compact, in compliance with DOT requirements, clean sand backfill following installation of the gas facility. Any required removing, trucking, storing, and disposing of material shall be deemed included in the unit price. The price shall also include the cost of providing temporary pavement restoration. Permanent pavement restoration shall be deemed included in this item, as required and as directed by the Resident Engineer.

GAS COST SHARING STANDARD SPECIFICATIONS
SCHEDULE GCS-A

Average rate charged by utility companies to Disconnect and Reconnect Gas Services:

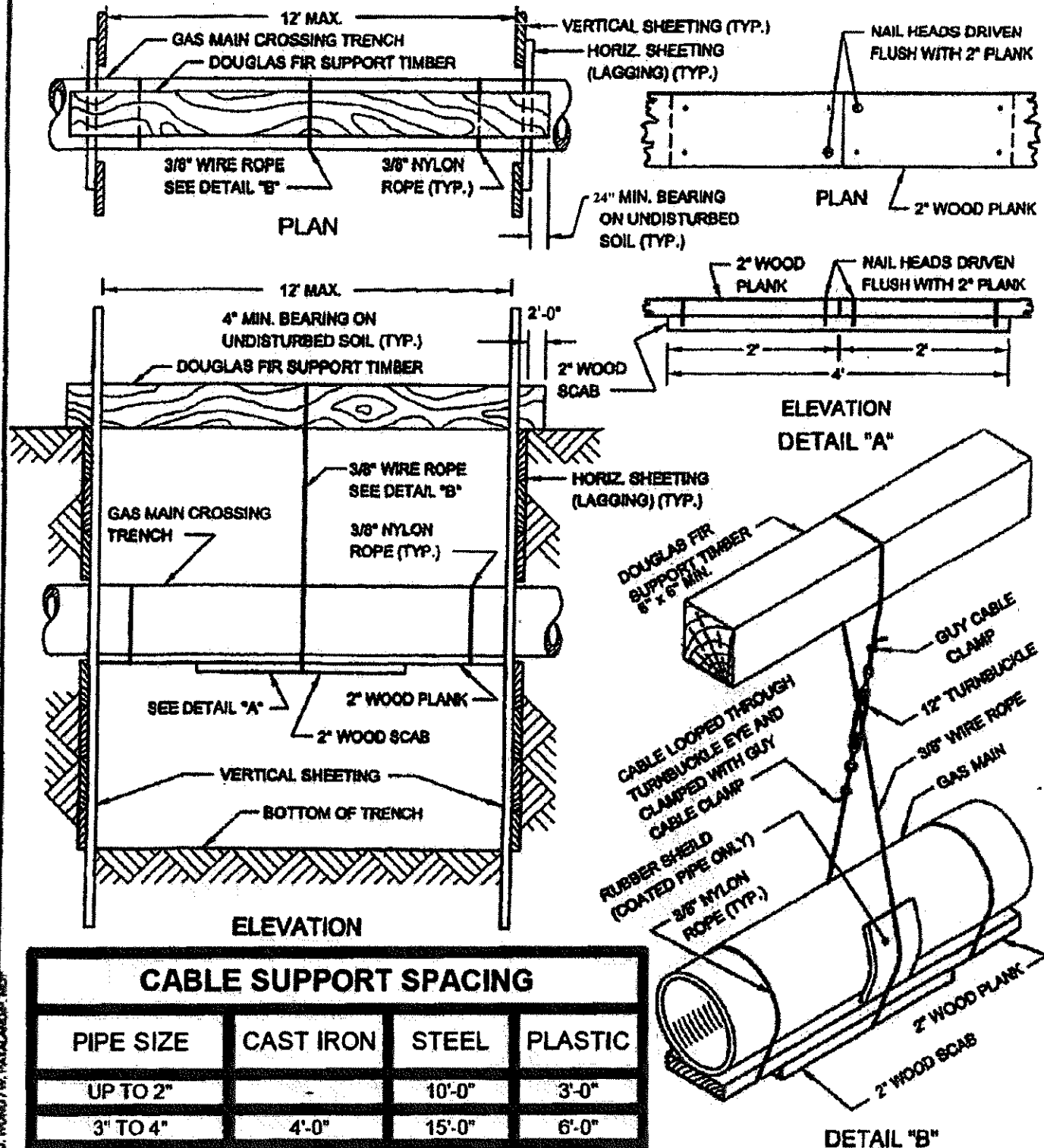
1. National Grid - \$586.90 per Service/and Visit
2. Con Edison - \$524.00 per Service/and Visit

IV - STANDARD SKETCHES; GAS COST SHARING WORK

Hereinafter attached are the following Standard Sketches for Gas Cost Sharing Work:

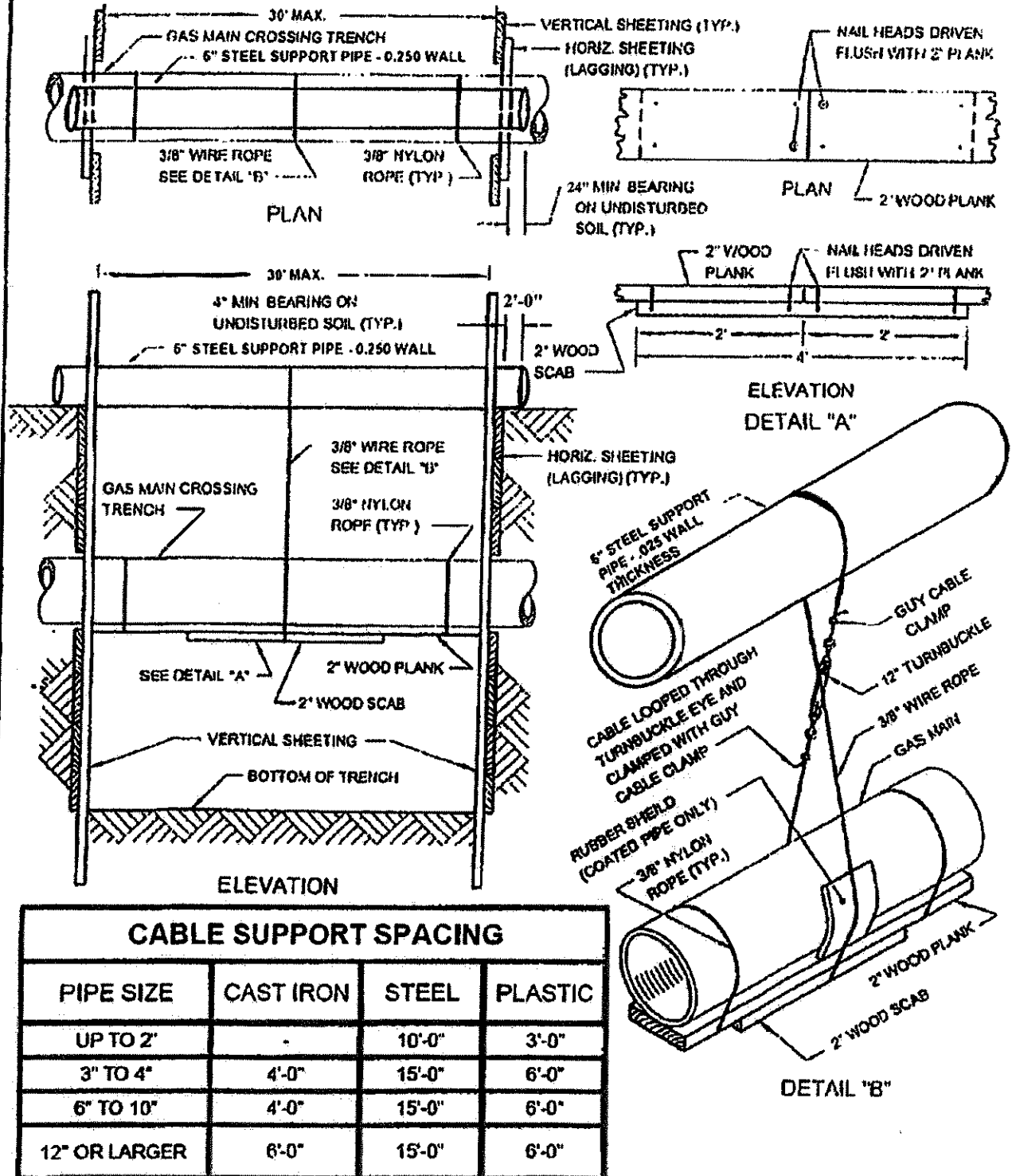
- Sketch No. 1 - Support Requirements For Gas Mains And Services Crossing Excavation Greater Than 4' - 0" Wide At Any Angle
- Sketch No. 1A - Support Requirements For Gas Mains Over 16" Diameter Up To And Including 48" Diameter Crossing Excavation At Any Angle
- Sketch No. 2 - Typical Methods Of Measurement For Gas Crossings
- Sketch No. 3 - Utility Crossings During Catch Basin Chute Connection Pipe Installation
- Sketch No. 4 - Utility Crossings During Catch Basin Chute Connection Pipe Installation (Extra Depth)
- Sketch No. 5 - Gas Main Encroachment On And/Or Parallel To Excavation Of Unsheeted Trench

GAS COST SHARING WORK (SKETCH NO. 1) **SUPPORT REQUIREMENTS FOR GAS MAINS SUSPENDED IN** **EXCAVATIONS UP TO 12'-0" WIDE AT ANY ANGLE**



NOTE: SUPPORTS FOR GAS TRANSMISSION FACILITIES SHALL BE REVIEWED WITH GAS ENGINEERING PRIOR TO INSTALLATION.

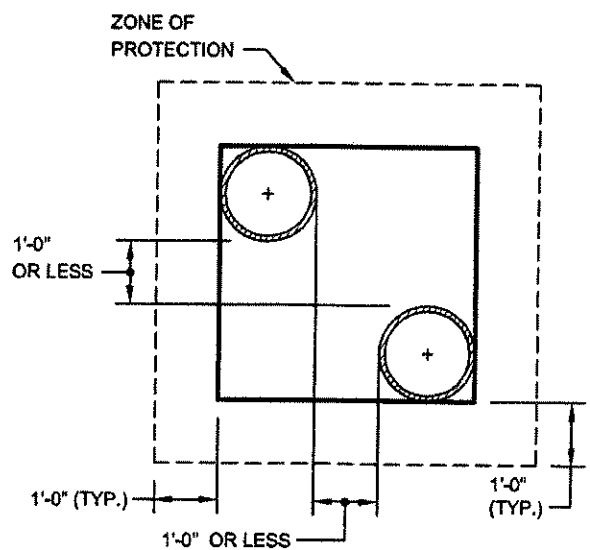
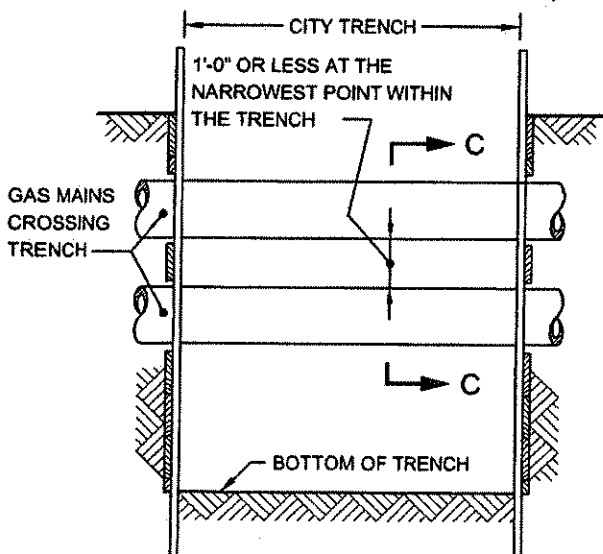
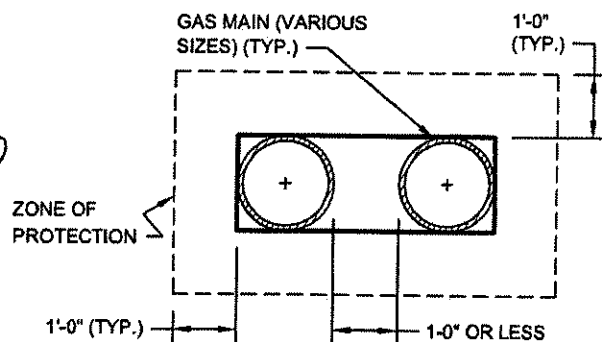
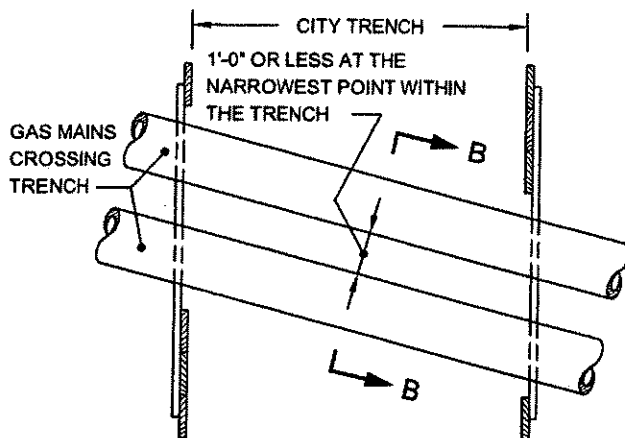
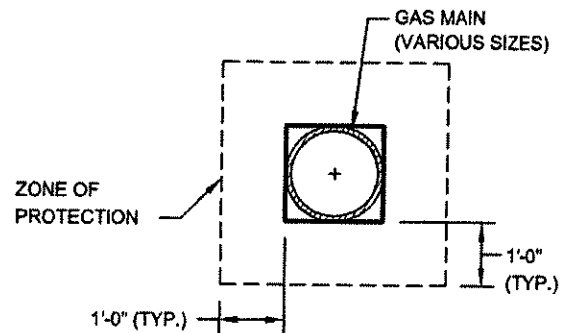
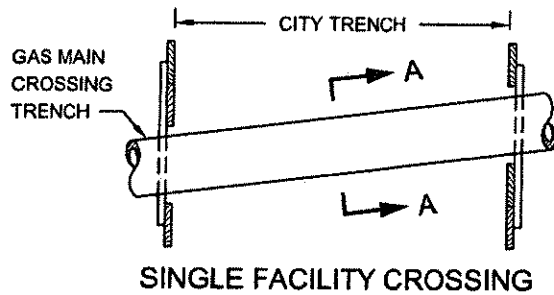
GAS COST SHARING WORK (SKETCH NO. 1A)
SUPPORT REQUIREMENTS FOR GAS MAINS SUSPENDED IN
EXCAVATIONS BETWEEN 12'-0" AND 30'-0" WIDE AT ANY ANGLE



NOTE: SUPPORTS FOR GAS TRANSMISSION FACILITIES SHALL BE REVIEWED WITH GAS ENGINEERING PRIOR TO INSTALLATION.

GAS COST SHARING WORK (SKETCH NO. 2)

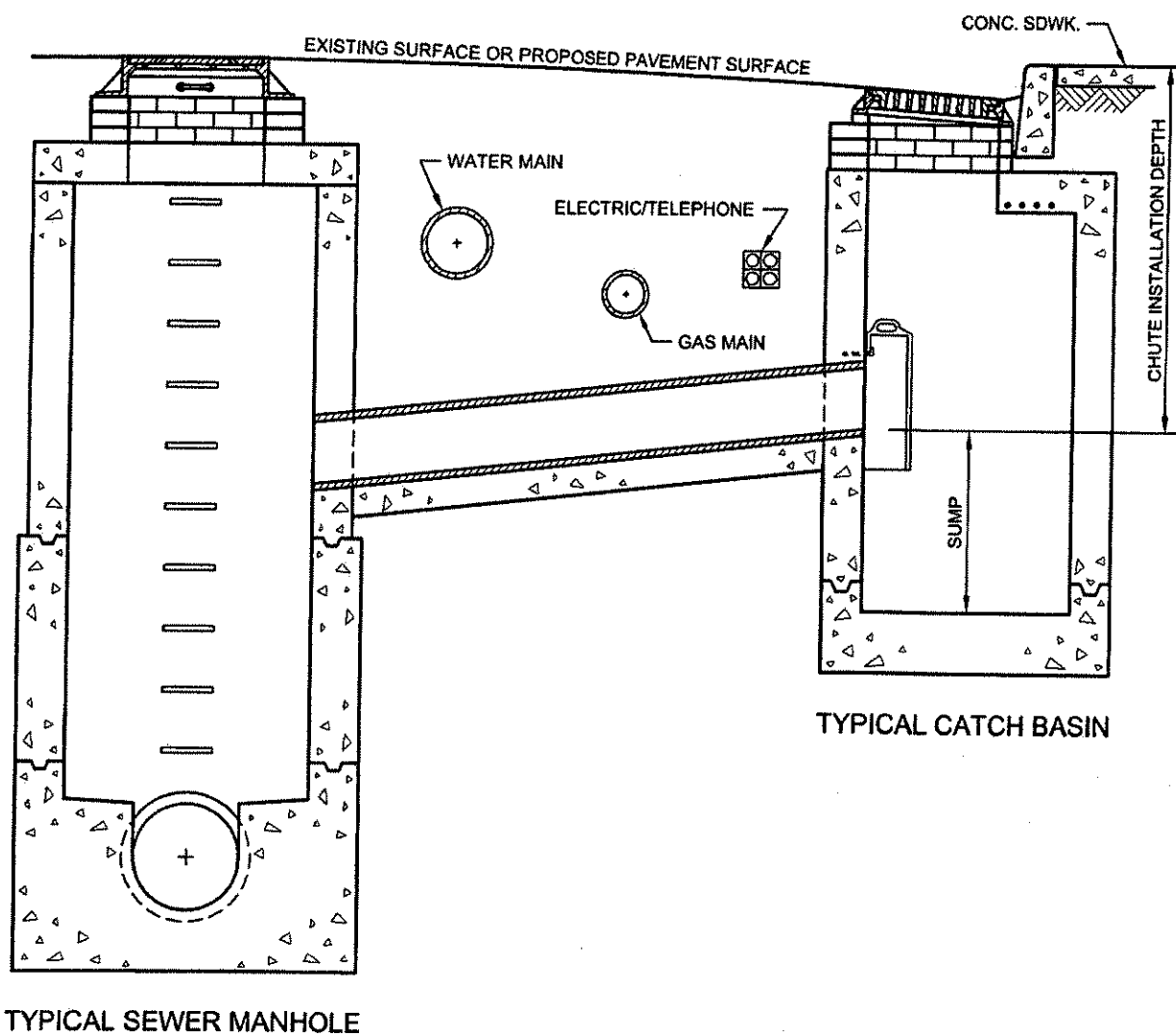
TYPICAL METHODS OF MEASUREMENT FOR GAS CROSSINGS



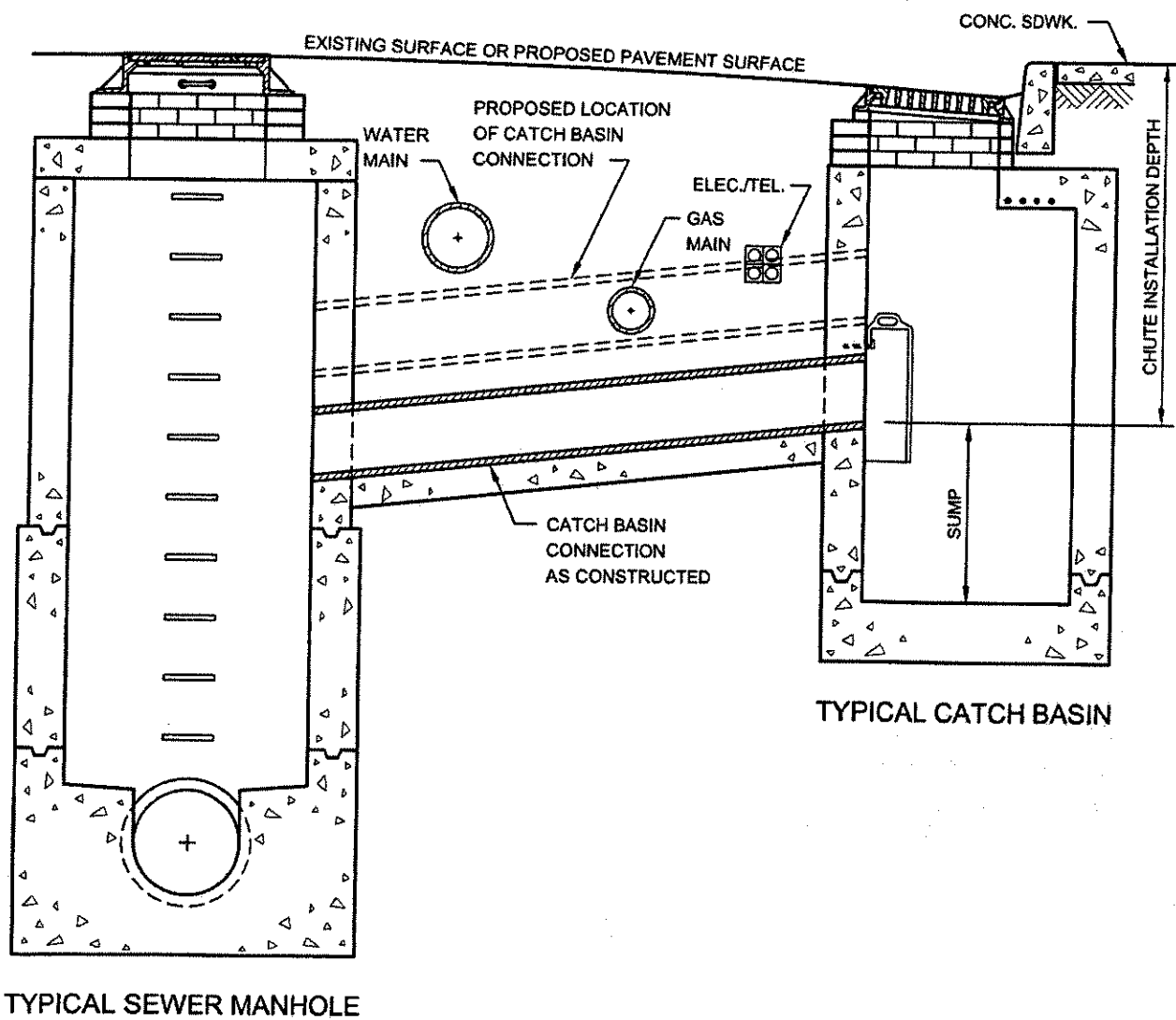
NOTE:

GAS MAINS MAY OR MAY NOT BE PARALLEL TO EACH OTHER.

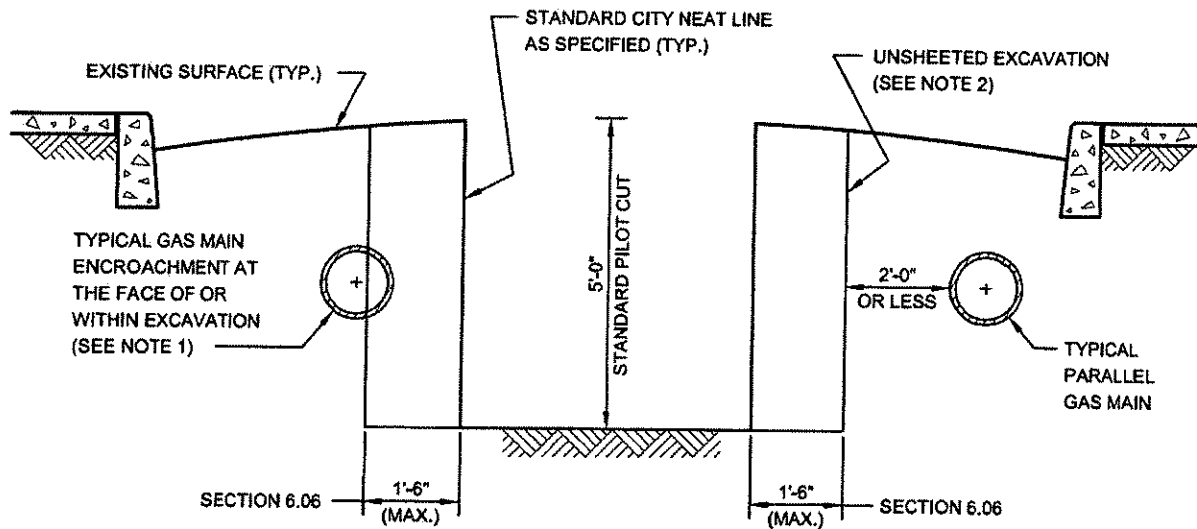
GAS COST SHARING WORK (SKETCH NO. 3) UTILITY CROSSINGS DURING CATCH BASIN CHUTE CONNECTION PIPE INSTALLATION



GAS COST SHARING WORK (SKETCH NO. 4) UTILITY CROSSINGS DURING CATCH BASIN CHUTE CONNECTION PIPE INSTALLATION (EXTRA DEPTH)



GAS COST SHARING WORK (SKETCH NO. 5) **GAS MAIN ENCROACHMENT ON AND/OR PARALLEL** **TO EXCAVATION OF UNSHEETED TRENCH**



NOTES:

- (1) GAS MAIN LOCATED AS SHOWN MAY HAVE TO BE REMOVED BY THE FACILITY OPERATOR PRIOR TO THE START OF CITY EXCAVATION, OTHERWISE, THE CONTRACTOR WILL BE PAID UNDER SECTION 6.06 FOR THE SAID WORK. IF GAS MAIN IS ABANDONED THEN SECTION 6.03 SHALL APPLY.
- (2) EIGHTEEN (18) INCHES FROM STANDARD NEAT LINE IS THE MAXIMUM ALLOWABLE WIDTH OF AREA THAT MAY BE DISTURBED OR EXCAVATED DURING INSTALLATION OF CERTAIN TYPES OF SHEETING SYSTEMS THAT MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE DEPARTMENT OF DESIGN AND CONSTRUCTION OF THE CITY OF NEW YORK.

**V - PRELIMINARY GAS WORK TO BE PERFORMED BY
FACILITY OPERATOR.**

APPLICABLE TO ALL GAS DRAWINGS:

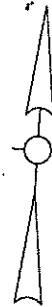
- ALL RELOCATION WORK SHOWN IN THIS SECTION IS TO BE PERFORMED BY FACILITY OPERATOR.
- ALL SUPPORT AND PROTECTION WORK TO BE PERFORMED BY CITY CONTRACTOR
- IF ADDITIONAL INFORMATION IS NEEDED REGARDING THE FACILITY OPERATOR'S RELOCATION WORK, THE CONTRACTOR IS ADVISED TO CONTACT THE GAS COMPANY REPRESENTATIVE:

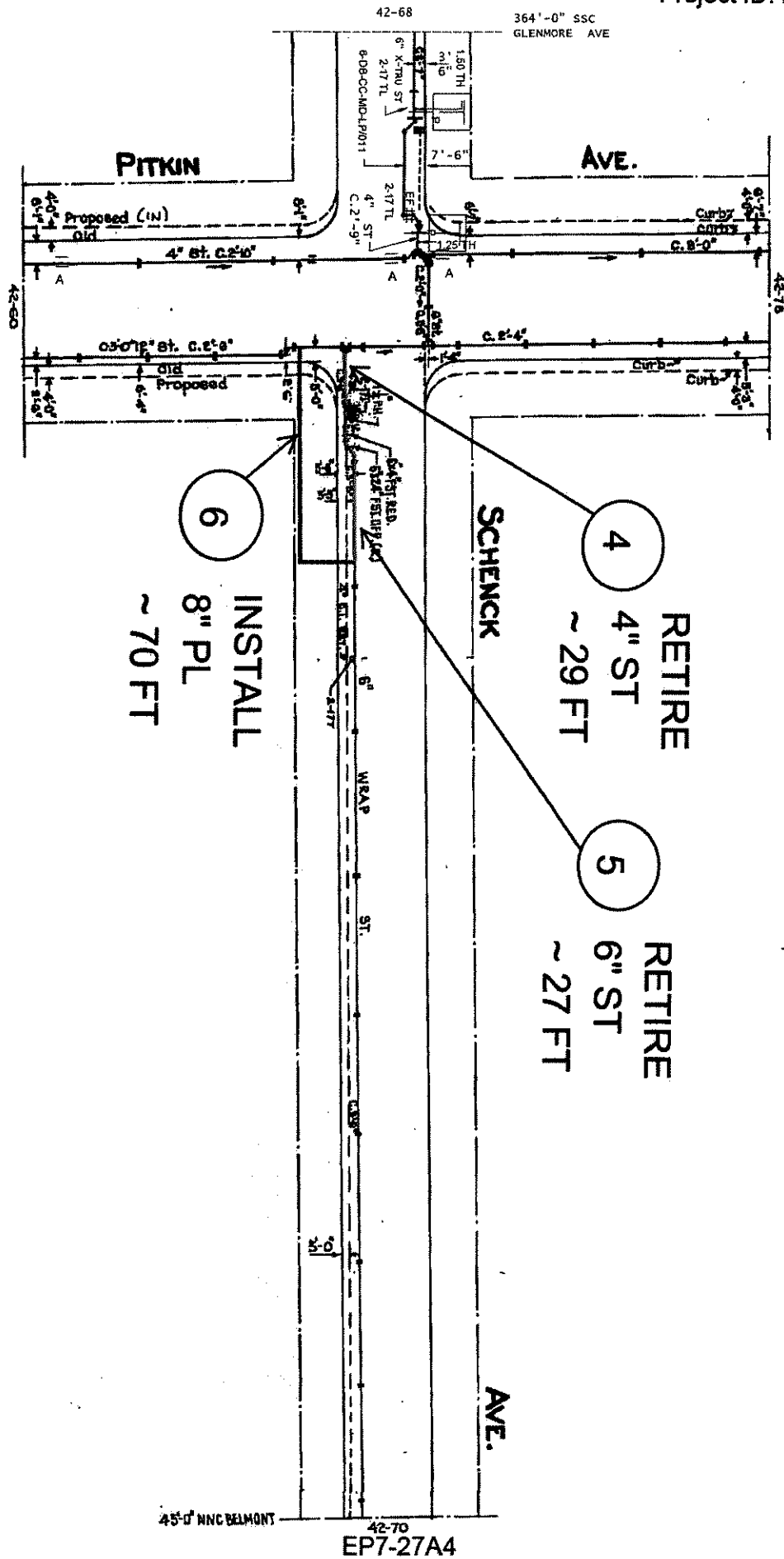
Neville Jacobs Jr.
NationalGrid Energy Delivery
287 Maspeth Avenue
Brooklyn, NY 11211
TEL.: 718-963-5612
Neville.Jacobs@nationalgrid.com

(NO TEXT IN THIS AREA, TURN PAGE)

nationalgrid		HWK797W GAS MAIN INSTALLATION					
SHEET#	ITEM#	ON STREET	SIZE	MATL	FOOTAGE	PRESSURE	REIMB
1	3	Glenmore Ave	8"	PL	322	LP	YES
2	6	Schenck Ave	8"	PL	70	LP	YES
3	9	Stanley Ave	8"	PL	273	LP	YES
4	11	Wortman Ave	8"	PL	394	LP	YES
5	14	Cozine Ave	8"	PL	353	LP	YES

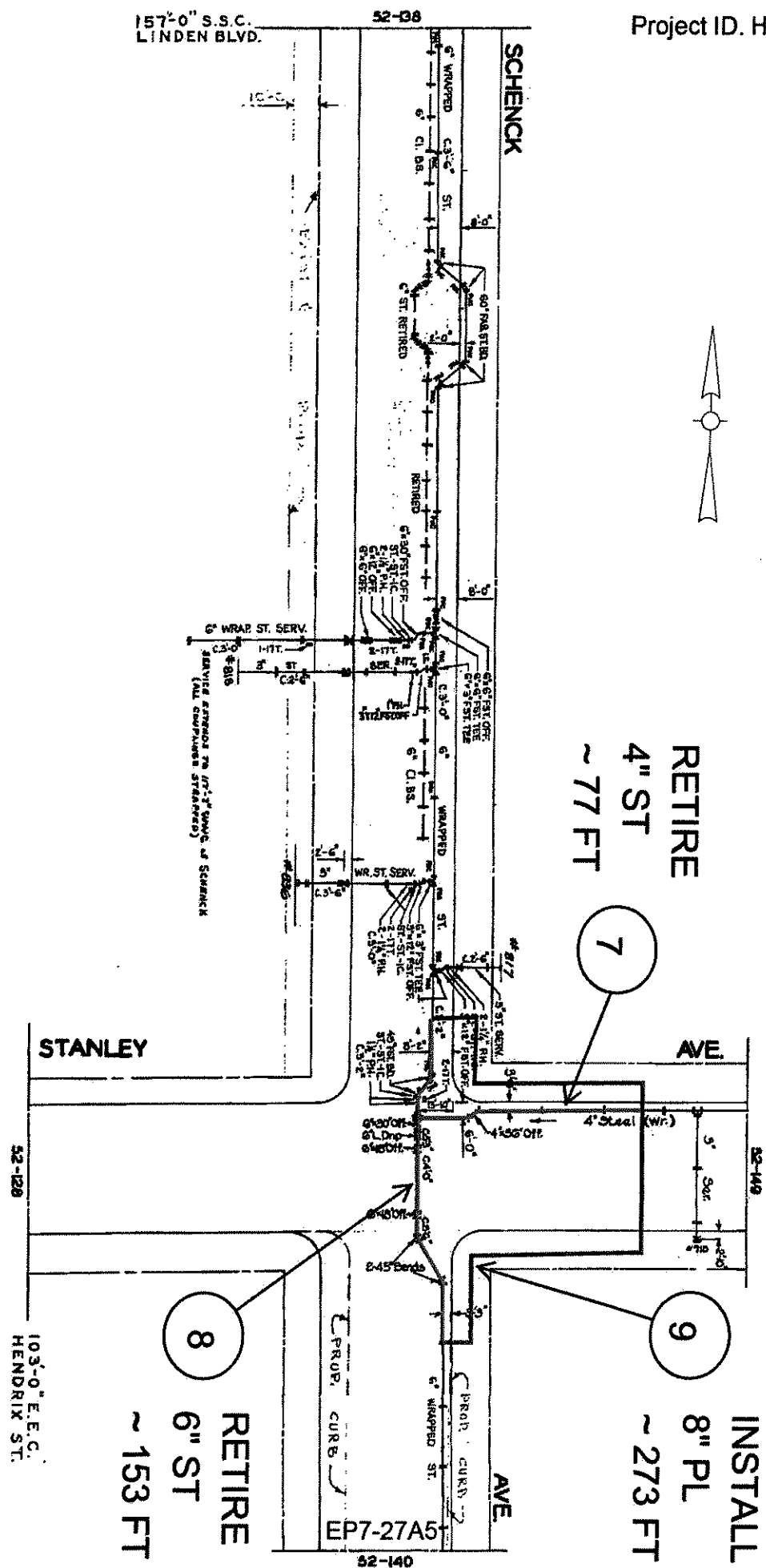
nationalgrid		HWK797W GAS MAIN RETIREMENT					
SHEET#	ITEM#	ON STREET	SIZE	MATL	FOOTAGE	PRESSURE	REIMB
1	1	Glenmore Ave	6"	CI	27	LP	YES
1	2	Glenmore Ave	6"	ST	213	LP	YES
2	4	Schenck Ave	4"	ST	29	LP	YES
2	5	Schenck Ave	6"	ST	27	LP	YES
3	7	Stanley Ave	4"	ST	77	LP	YES
3	8	Schenck Ave	6"	ST	153	LP	YES
4	10	Wortman Ave	6"	ST	314	LP	YES
5	12	Cozine Ave	6"	ST	212	LP	YES
5	13	Cozine Ave	4"	ST	45	LP	YES





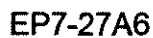
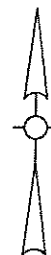
HWK797W
 CNCC308
 ID:42-69
 SHT 2 of 5

SHT 3 of 5

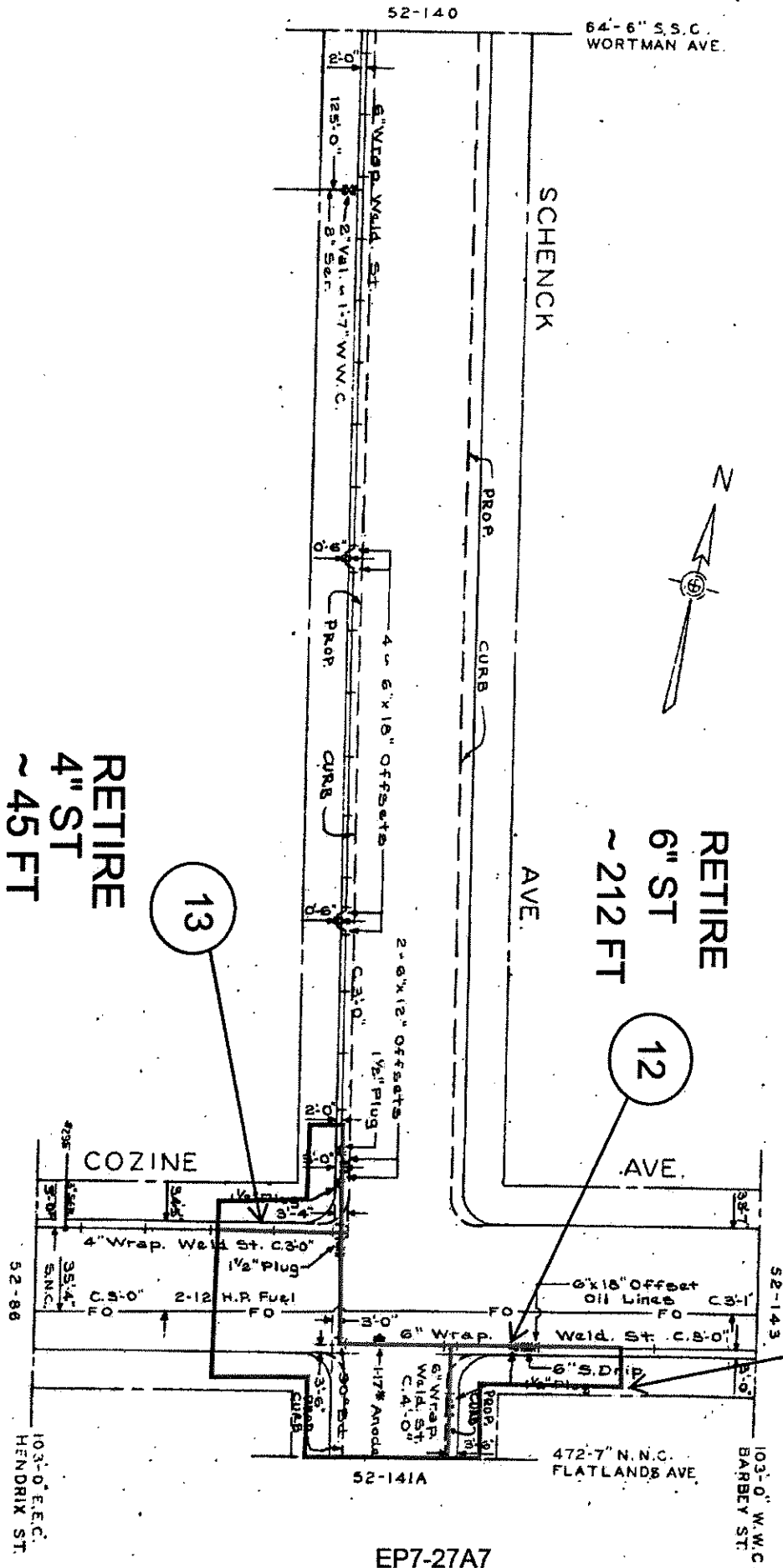


5
SHT 4 of 5

125'-0" SSC
STANLEY AVE



HWK797W
CNCC308
ID:52-140
SHT 5 of 5



**VI - LISTING OF APPROXIMATE LOCATIONS OF EP-7 BID
ITEMS QUANTITIES.**

(NO TEXT IN THIS AREA, TURN PAGE)

**SCOPE OF WORK
SUPPORT AND PROTECTION
FOR CONTRACT HWK797W**

The City of New York Department of Design and Construction is proposing to install sewers and/or water mains and all appurtenances in various locations in The City of New York along with all work incidental thereto.

6.01.8NG - Gas Services Crossing Trenches and/or Excavations. (Ea.)

2 in Schenck Ave bet Hegeman Ave & Linden Blvd.
3 in Schenck Ave bet Linden Blvd & Stanley Ave.
2 in Schenck Ave bet Wortman Ave & Cozine Ave.
1 in Belmont Ave bet Schenck Ave & Barbey Ave.

6.03NG - Removal of Abandoned Gas Facilities. All Sizes. (L.F.)

500 in Various Locations as Required.

**6.03.1NG - Removal of Abandoned Gas Facilities With Possible Coal Tar Wrap. All Sizes. (L.F.)
(For National Grid Work Only)**

1000 in Various Locations as Required.

6.04NG - Adjust Hardware to Grade Using Spacer Rings/Adaptors (Street Repaving). (Ea.)

13 in Various Locations as Required.

6.05NG - Adjust Hardware to Grade By Resetting (Road Reconstruction). (Ea.)

15 in Various Locations as Required.

**SCOPE OF WORK
SUPPORT AND PROTECTION
FOR CONTRAC HWK797W**

The City of New York Department of Design and Construction is proposing to install sewers and/or water mains and all appurtenances in various locations in The City of New York along with all work incidental thereto.

6.06NG - Special Care Excavation and Backfilling. (C.Y.)

400 in various locations as required, including but not limited to all gas services crossing un-sheeted water main trenches.

6.07NG - Test Pits for Gas Facilities. (C.Y.)

30 in Various Locations as Required.

**6.09NG - Trench Excavation and Backfill for Gas Mains and Services.
Gas Installed by Others. (C.Y.)
(For National Grid Work Only)**

50 in Various Locations as Required.

EP-7 (1.0)

END OF EP-7 PAGES

THE EP-7 PAGES CONSIST OF FOURTY-SEVEN (47) PAGES,
INCLUDING THIS PAGE.

TF-PAGES

**TIGER/FHWA FUNDED PROJECTS
TIGER/FHWA FUNDING ATTACHMENTS**

(NO TEXT ON THIS PAGE)

Federal Highway Administration (“FHWA”) Transportation Investment Generating Economic Recovery (“TIGER”) Funding Attachments

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
INFRASTRUCTURE DIVISION
BUREAU OF DESIGN

THIS ATTACHMENT IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

1. Any substantial modification of the Contract shall be subject to approval by the State Commissioner of Transportation and the Federal Highway Administration, in addition to the New York City (“City”) agencies involved.
2. The Contractor shall be responsible for compliance with all the provisions of the following Schedules of Federal and State requirements which are hereby made a part of the original contract documents and are annexed hereto:

Attachment “A” – Required Contract Provisions for Federal-Aid Construction Contracts – FHWA 1273

Attachment “B” – Standard Clauses for New York State Contracts, Labor and Employment Provisions, and Public Notices

Attachment “C” – Notice to All Prospective Bidders, Federal-Aid Contracts - Assurance of Non-Discrimination, Subcontracts, Appendix A-1 Supplemental Title VI Provisions (Civil Rights Act)

Attachment “D” – Disadvantaged Business Enterprise Requirements

Attachment “E” – “Buy America” Requirements & Waivers and Use of United States-Flag Vessels

Attachment “F” - Equal Employment Opportunity Requirements

Attachment “G” – Standardized Changed Conditions Clauses

Attachment “H” – Civil Rights Monitoring and Reporting

Attachment “I” – False Claims Certification, United States Department of Transportation Hotline, New York State Inspector General Hotline

Attachment “J” – Provisions Relating to the New York State Labor Law, Prevailing Wages, and the Use of Convict Labor and Materials on Federal & State Contracts

In addition to compliance with the above Federal and State requirements, the Contractor shall also be required to comply with all City requirements as depicted in the Information for Bidders and Standard Construction Contract herein. Wherever a conflict may exist, the Federal Regulations shall take precedence.

3. The Contractor shall not pay less than the highest minimum hourly rates as set forth by Federal, State or City laws.
4. The Contractor shall maintain its records in conformity with the current NYSDOT "Manual for Uniform Record Keeping", referred to as MURK, copies of which are available on line at the NYSDOT website www.dot.ny.gov/publications.
5. In accordance with 23 US C315 and Order 1321.1C, FHWA Directives Management, issued January 6, 2010, the construction work performed under this Contract shall be available to be subject to inspection at all times by the New York State Department of Transportation and the Federal Highway Administration.
6. Amendments to Information for Bidders:
 - a) Refer to Pages 6 and 7, Section 21.(C), Rejection of All Bids and Negotiation With All Responsible Bidders;
Delete Section 21.(C) and Article 21.(D) in their entirety and substitute the words "(C) (NO TEXT)." And "(D) (NO TEXT)." respectively.
 - b) Refer to Page 8, Section 26.(A).(2), Bid, Performance and Payment Security;
Delete Section 26.(A).(2) in its entirety;
Substitute the following:
"Within five (5) days after the execution of the Contract and acceptance of the Contractor's bonds, the Comptroller will be notified to return the bid security of the successful bidder."
 - c) Refer to Page 8, Section 26.(B), Performance and Payment Security;
Delete the sentence beginning with the words: "Performance and Payment Security..." in its entirety.
Substitute the following:
"Prior to or at the time of execution of the Contract, successful bidder must deliver to the City of New York an executed bond equal to one hundred percent (100%) of the Contract price, to secure the faithful performance of the Contract, and an executed bond in an amount equal to one hundred percent (100%) of the Contract price, as security for the payment of all persons performing labor or furnishing materials in connection with this Contract."
 - d) Refer to Page 9, Section 27. Failure to Execute Contract, 6th, 7th and 8th lines;
Delete the sentence beginning with the words: "No plea of mistake in such . . ." in its entirety.
 - e) Refer to Page 10, Section 30. Labor Law Requirements, Article (A) General;
Add the following at the end of the Article (A): "This provision shall apply to subcontractors also."
 - f) Refer to Page 11, Section 33.(B), Variations from Engineer's Estimate;
Delete Section 33.(B) in its entirety. See Attachment "G", Standardized Change Condition Clauses, Article (3).(iv).(B).
 - g) Refer to Pages 12 and 13, Section 37. Locally Based Enterprise Requirements (LBE);
Delete the Section in its entirety. See Attachment "D" Disadvantaged Business Enterprise Utilization Requirements.

7. Amendments to Standard Construction Contract:

- a) Refer to Page 5, Article 5.2;
Delete the last sentence starting with the words: “In the event of . . .” and ending with the words “. . . shall take precedence.”
Substitute the following:
“In the event of a conflict between the Schedules of Federal and State requirements attached hereto, the other terms of the **Contract**, and the **PPB** Rules, the following order of precedence shall apply: First, the Schedules of Federal and State requirements attached hereto, second the **PPB** Rules, and last, the other terms of the **Contract**.”
- b) Refer to Pages 11 and 12, ARTICLE 7. PROTECTION OF WORK AND OF PERSONS AND PROPERTY; NOTICES AND INDEMNIFICATION;
Add the following:
“7.6 In addition to the requirements stipulated herein, all work performed under this Contract shall comply with the safety and health standards of the Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor.”
- c) Refer to Page 13, Article 9.3;
Delete the first sentence starting with the words: “If the Contractor . . .” and ending with the words “. . . progress schedule.”
- d) Refer to Page 23, ARTICLE 16. OCCUPATION OR USE PRIOR TO COMPLETION;
Delete Article 16.1.4, in its entirety.
- e) Refer to Page 25, ARTICLE 17. SUBCONTRACTS;
Delete Article 17.11.1, in its entirety;
Substitute the following revised Article 17.11.1:
“17.11.1 Payment to **Subcontractors**: The agreement between the **Contractor** and its **Subcontractors** shall contain the same terms and conditions as to method of payment for **Work**, labor, and materials, as are contained in this **Contract**.”
- f) Refer to Pages 26 and 27, ARTICLE 19. SECURITY DEPOSIT;
Delete Article 19.2, in its entirety;
Substitute the following Article 19.2:
“19.2 If performance and payment bonds are not required, the bid security shall be retained by the **City** as security for the **Contractor's** faithful performance of the **Contract**. If partial payments are provided, the bid security will be returned to the **Contractor** subject to the other provisions of this **Contract**. If partial payments are not provided, the bid security will be released when final payment is certified by the **City** for payment.”
- g) Refer to Pages 29 and 30, ARTICLE 21. RETAINED PERCENTAGE;
Delete Article 21, in its entirety;
Substitute the following:

“ARTICLE 21. (NO TEXT)”
- h) Refer to Page 37, ARTICLE 24. MAINTENANCE AND GUARANTY;
Delete Article 24.1 in its entirety;
Substitute the words “24.1 (NO TEXT)”.

- i) Refer to Page 37, ARTICLE 24. MAINTENANCE AND GUARANTY;
Add the following to Article 24.9;

"If the **Contract** requires the furnishing and/or installing of electrical or mechanical equipment, the **Contractor** shall provide the following:

- (1) Manufacturers' warranties or guarantees on all electrical and mechanical equipment, consistent with those provided as customary trade practice.
- (2) **Contractor's** guarantees providing for satisfactory in-service operation of the mechanical and electrical equipment and related components for a period of not less than one (1) year following **Substantial Completion**.
- (3) If the **Contract** requires maintenance and guarantee for landscape items including trees, the maintenance and guarantee period for such landscape items shall be twenty-four (24) months following **Substantial Completion**."

- j) Refer to Page 38, ARTICLE 25. CHANGES;
Add the following:

"25.5 **Extra Work**: It is anticipated that the preliminary engineering and the preparation of **Contract Drawings**, **Specifications** and **Contract Documents** have been performed with sufficient thoroughness, accuracy and care, and that changes and **Extra Work** during the construction can be held to a minimum and limited almost exclusively to changes necessitated by conditions that could not reasonably be anticipated before the **Project** was advertised for bids or force account operations commenced."

- k) Refer to Pages 57, 58 and 59, ARTICLE 36. NO DISCRIMINATION;
Add throughout Article 36: "or sex or age" to the expression "race, creed, color or national origin", and "or sex or age" to the expression "race, color or creed", wherever these expressions appear in Article 36.

Change in Article 36.1.1, 4th line, "citizen of the State of New York" to "person";

Add the following:

"36.1.6 To the extent that the requirements of Labor Law Section 220-e conflict with federal law, federal law prevails."

Add the following sentence to the end of Article 36.2.2:

"To the extent that the requirements of Labor Law Section 220-e conflict with federal law, federal law prevails."

Delete: Article 36.2.4 in its entirety.

- l) Refer to Page 66, ARTICLE 43. PROMPT PAYMENT;
Add the following sentence to the end of Article 43.5:

“The Contractor shall not hold any retainage, but may deduct an amount necessary to satisfy any claims, liens or judgments against a Subcontractor or materialman which have not been fully discharged.”

- m) Refer to Pages 66 and 67, ARTICLE 44. SUBSTANTIAL COMPLETION PAYMENT;
Delete Articles 44.2 and 44.3, in their entirety;
Substitute the following:

“44.2 The **Commissioner** shall issue a voucher calling for payment of any part or all of the balance due for **Work** performed under the **Contract**, less any and all deductions authorized to be made by the **Commissioner**, under this **Contract** or by **Law**, and less twice the amount the **Commissioner** considers necessary to ensure the completion of the balance of the **Work** by the **Contractor**. Such a payment shall be considered a Partial and not a Final Payment. No **Substantial Completion** payment shall be made under this Article 44 where the **Contractor** shall fail to complete the **Work** within the time fixed for such completion in the Schedule A of the General Conditions, or within the time to which completion may have been extended, until an extension or extensions of time for the completion of **Work** have been acted upon pursuant to Article 13.

44.3 No further partial payments shall be made to the **Contractor** after **Substantial Completion**, except the **Substantial Completion** payment and **Contractor's** requisition that were properly filed with the **Commissioner** prior to the date of **Substantial Completion**; however, the **Commissioner** may grant a waiver for further partial payments after the date of **Substantial Completion** to permit payments for change order **Work** and/or release of deposits pursuant to Article 24. Such waiver shall be in writing.”

- n) Refer to Pages 67 and 68, ARTICLE 45. FINAL PAYMENT;
Delete Article 45.1, in its entirety;
Substitute the following:

“45.1 After completion and **Final Acceptance** of the **Work**, the **Contractor** shall submit all required certificates and documents, together with a requisition for the balance claimed to be due under the **Contract**, less the amount authorized to be retained under Article 24. Such submission shall be within 90 days of the date of the **Commissioner's** written determination of **Final Acceptance**, or within such additional time as may be granted by the **Commissioner** in writing. If the **Contractor** fails to submit all required certificates and documents within the time allowed, no payment of the balance claimed shall be made to the **Contractor** and the **Contractor** shall be deemed to have forfeited its right to payment of any balance claimed. A verified statement similar to that required in connection with applications for partial payments shall also be submitted to the **Commissioner**.”

- o) Refer to Page 74, ARTICLE 59. SERVICE OF NOTICES;
Delete the words “deposited in a post office box regularly maintained by the United States Postal Service in a properly addressed, postage prepaid envelope”.
- p) Refer to Pages 78, 79 and 80, ARTICLE 64. TERMINATION BY THE CITY;
Delete the text of Article 64.1;
Substitute the following:

“64.1 In addition to termination pursuant to any other article of this **Contract**, the **Commissioner** may, by written notice, terminate the **Contract** or any portion thereof if the **Commissioner** determines that termination would be in the best interests of the **City**. Such reasons for termination may include, but need not be necessarily limited to, executive orders of the President relating to prosecution of war or national defense, national emergency which creates a serious shortage of materials, orders from duly constituted authorities relating to energy conservation, and restraining orders or injunctions obtained by third-party citizen action resulting from national or local laws or regulations, or where the issuance of such order or injunction is primarily caused by acts or omissions of persons or agencies other than the **Contractor**, or where the orderly progression of a project is interfered with or delayed by acts or omissions of persons or agencies other than the **Contractor**. The **Contractor** specifically understands that the issuance of such notice by the **Commissioner** shall be conclusive as to its necessity. In such event the **Contractor** shall upon receipt of such notice.”

- q) Refer to Page 82, ARTICLE 67. LOCALLY BASED ENTERPRISE PROGRAM; Delete Article 67, in its entirety, and Substitute the following “ARTICLE 67. (NO TEXT)”. See Attachment “D” Disadvantaged Business Enterprise Requirements.
- r) Refer to Pages 83 and 84, ARTICLE 69. MacBRIDE PRINCIPLES PROVISIONS; Delete Article 69, in its entirety, and Substitute the following “ARTICLE 69. (NO TEXT)”
- s) Refer to Pages 87, 88, 89, 90, 91, 92, 93, and 94, ARTICLE 79. PARTICIPATION BY MINORITY - OWNED AND WOMEN – OWNED BUSINESS ENTERPRISES IN CITY PROCUREMENT; Delete Article 79, in its entirety, and Substitute the following “ARTICLE 79. (NO TEXT)”

8. Amendments to General Conditions of the Standard Highway Specifications:

- a) Refer to Pages 38 and 39, of the Standard Highway Specifications, Article 1.06.46. Project Sign;
Delete the Article 1.06.46, in its entirety;
Substitute the following:

“1.06.46. Project Sign. No project signs will be required on this project.”

9. Amendments to the Standard Highway Specifications:

- a) Refer to Pages 290 through 292, **SECTION 5.05 – Maintenance**; Delete Section 5.05, in its entirety, and any references thereto;
Substitute the following:

“SECTION 5.05 – Maintenance”

(A) CONTRACTOR TO STAY INFORMED OF CONDITIONS OF TREES

The Contractor must stay informed of the condition of the trees which are under maintenance, and will be required to make replacements without notice from the Commissioner. In case of failure or neglect on the Contractor's part to do so, then the Commissioner will have the right to purchase such plant material as deemed necessary by the Commissioner, and to employ such person or persons as the Commissioner will deem proper, and to undertake and complete said replacements by contract or otherwise and to charge the expense thereof against the Performance Bond or any sum of money retained by The City, as herein provided, and the excess cost to the Contractor, and

the Contractor must pay all such expense to which The City may have been put by reason of the neglect of the Contractor to make such replacements as aforesaid.

(B) CONTRACTOR TO MAKE REPAIRS OR REPLACEMENTS

The Contractor must remove and replace all trees under maintenance which die or, in the opinion of the Engineer, seem unhealthy, stunted or unable to flourish, within the period of maintenance, except as otherwise provided, and replace said trees with new trees of the same size and species as originally planted, except when such death, unhealthiness, stunting or inability to flourish is due to vandalism or damage resulting from causes over which the Contractor has no control, as certified by the Engineer. However, the Engineer may, at his the Engineer's discretion, direct a substitution of species.

(C) PERIOD OF MAINTENANCE

The period of maintenance for each individual tree planted or transplanted will begin upon planting or transplanting and will end twenty-four (24) months thereafter. The Contractor must obtain the said certificate from the Department of Parks and Recreation, in writing, and file such certificate with the Engineer.

(D) MAINTENANCE NOT TO TERMINATE IN WINTER MONTHS

When the termination date of the period of maintenance for planted or transplanted trees will fall outside the planting periods specified in **Section 4.16**, hereof, the interval between the said termination date and next planting period thereafter, or such part as the Commissioner may determine, will not be included in the computation of the period of maintenance during which the replacement of defective trees is to be made by the Contractor, and also, in that case, the payment to be made under the provisions of this contract will not be made until after the date appearing on the Certificate of Acceptance which the Contractor must obtain from the Department of Parks and Recreation, and file with the Engineer, for trees planted as replacements for defective trees within the said next planting period thereafter, unless otherwise specifically permitted by the Commissioner.

(E) EXPIRATION OF MAINTENANCE

Unless otherwise permitted or directed, defective trees, as determined by the Commissioner, must be replaced with new trees by the Contractor.

The furnishing and planting of trees as replacements for defective trees must comply, in all respects, with the contract requirements.

In the event that The City incurs any expense in pursuance of this section of the contract, the certificate of the Commissioner as to the condition of the trees, the nature and extent of the replacements made, and expense incurred for such replacements will be binding and conclusive on the Contractor.

(F) CONTRACTOR TO NOTIFY COMMISSIONER BEFORE MAKING REPAIRS

The Contractor must notify the Commissioner, at least two (2) days before making any replacements of the time and place of beginning such work and must at all times keep the Commissioner or his the Commissioner's representatives informed of the proposed prosecution of the work from day to day."

10. The Contractor is hereby notified that this is a City contract funded through apportionment available under Title 23, U.S. Code, as amended, and that the contract will be awarded by the City of New York, subject to the approval of the Commissioner of the New York State Department of Transportation and the Federal Highway Administration. Furthermore, no extensions in time for completion or other changes affecting the contract work can be

granted by the City of New York without concurrence of the State of New York and approval of the Federal Highway Administration.

11. All reference to the delivery of salvageable materials to a designated City-owned yard do not apply to this Contract. All salvageable materials designated by the Engineer must be stored on site for pick-up by City forces.
12. Wherever references are made within these specifications to "race, creed, color, national origin or sex," they must be construed to include "sexual orientation and marital status".

(NO FURTHER TEXT ON THIS PAGE)

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

ATTACHMENT “B” – STANDARD CLAUSES FOR NEW YORK STATE CONTRACTS, LABOR AND EMPLOYMENT PROVISIONS, AND PUBLIC NOTICES

“Standard Clauses for New York State Contracts” is Appendix A from the NYS Office of General Services (OGS), as modified by NYS Department of Transportation (NYSDOT).

“Public Notices” text is from NYSDOT Standard Specifications, Section 107-04.

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STANDARD CLAUSES FOR NYS CONTRACTS

The parties to the attached contract, license, lease, amendment or other agreement of any kind (hereinafter, "the contract" or "this contract") agree to be bound by the following clauses which are hereby made a part of the contract (the word "Contractor" herein refers to any party other than the State, whether a contractor, licenser, licensee, lessor, lessee or any other party):

1. EXECUTORY CLAUSE. In accordance with Section 41 of the State Finance Law, the State shall have no liability under this contract to the Contractor or to anyone else beyond funds appropriated and available for this contract.

2. NON-ASSIGNMENT CLAUSE. In accordance with Section 138 of the State Finance Law, this contract may not be assigned by the Contractor or its right, title or interest therein assigned, transferred, conveyed, sublet or otherwise disposed of without the State's previous written consent, and attempts to do so are null and void. Notwithstanding the foregoing, such prior written consent of an assignment of a contract let pursuant to Article XI of the State Finance Law may be waived at the discretion of the contracting agency and with the concurrence of the State Comptroller where the original contract was subject to the State Comptroller's approval, where the assignment is due to a reorganization, merger or consolidation of the Contractor's business entity or enterprise. The State retains its right to approve an assignment and to require that any Contractor demonstrate its responsibility to do business with the State. The Contractor may, however, assign its right to receive payments without the State's prior written consent unless this contract concerns Certificates of Participation pursuant to Article 5-A of the State Finance Law.

3. COMPTROLLER'S APPROVAL. In accordance with Section 112 of the State Finance Law (or, if this contract is with the State University or City University of New York, Section 355 or Section 6218 of the Education Law), if this contract exceeds \$50,000 (or the minimum thresholds agreed to by the Office of the State Comptroller for certain S.U.N.Y. and C.U.N.Y. contracts), or if this is an amendment for any amount to a contract which, as so amended, exceeds said statutory amount, or if, by this contract, the State agrees to give something other than money when the value or reasonably estimated value of such consideration exceeds \$25,000, it shall not be valid, effective or binding upon the State until it has been approved by the State Comptroller and filed in his office. Comptroller's approval of contracts let by the Office of General Services is required when such contracts exceed \$85,000 (State Finance Law § 163.6-a). However, such pre-approval shall not be required for any contract established as a centralized contract through the Office of General Services or for a purchase order or other transaction issued under such centralized contract.

4. WORKERS' COMPENSATION BENEFITS. In accordance with Section 142 of the State Finance Law, this contract shall be void and of no force and effect unless the

Contractor shall provide and maintain coverage during the life of this contract for the benefit of such employees as are required to be covered by the provisions of the Workers' Compensation Law.

5. NON-DISCRIMINATION REQUIREMENTS. To the extent required by Article 15 of the Executive Law (also known as the Human Rights Law) and all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor will not discriminate against any employee or applicant for employment, nor subject any individual to harassment, because of age, race, creed, color, national origin, sexual orientation, gender identity or expression, military status, sex, disability, predisposing genetic characteristics, familial status, marital status, or domestic violence victim status or because the individual has opposed any practices forbidden under the Human Rights Law or has filed a complaint, testified, or assisted in any proceeding under the Human Rights Law. Furthermore, in accordance with Section 220-e of the Labor Law, if this is a contract for the construction, alteration or repair of any public building or public work or for the manufacture, sale or distribution of materials, equipment or supplies, and to the extent that this contract shall be performed within the State of New York, Contractor agrees that neither it nor its subcontractors shall, by reason of race, creed, color, disability, sex, or national origin: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the work; or (b) discriminate against or intimidate any employee hired for the performance of work under this contract. If this is a building service contract as defined in Section 230 of the Labor Law, then, in accordance with Section 239 thereof, Contractor agrees that neither it nor its subcontractors shall by reason of race, creed, color, national origin, age, sex or disability: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the work; or (b) discriminate against or intimidate any employee hired for the performance of work under this contract. Contractor is subject to fines of \$50.00 per person per day for any violation of Section 220-e or Section 239 as well as possible termination of this contract and forfeiture of all moneys due hereunder for a second or subsequent violation.

6. WAGE AND HOURS PROVISIONS. If this is a public work contract covered by Article 8 of the Labor Law or a building service contract covered by Article 9 thereof, neither Contractor's employees nor the employees of its subcontractors may be required or permitted to work more than the number of hours or days stated in said statutes, except as otherwise provided in the Labor Law and as set forth in prevailing wage and supplement schedules issued by the State Labor Department. Furthermore, Contractor and its subcontractors must pay at least the prevailing wage rate and pay or provide the prevailing supplements, including the premium rates for overtime pay, as determined by the State Labor Department in accordance with the Labor Law. Additionally, effective April 28, 2008, if this is a public work contract covered by Article 8 of the Labor Law, the Contractor understands and agrees that the filing of payrolls in a manner consistent with Subdivision 3-

a of Section 220 of the Labor Law shall be a condition precedent to payment by the State of any State approved sums due and owing for work done upon the project.

7. NON-COLLUSIVE BIDDING CERTIFICATION. In accordance with Section 139-d of the State Finance Law, if this contract was awarded based upon the submission of bids, Contractor affirms, under penalty of perjury, that its bid was arrived at independently and without collusion aimed at restricting competition. Contractor further affirms that, at the time Contractor submitted its bid, an authorized and responsible person executed and delivered to the State a non-collusive bidding certification on Contractor's behalf.

8. INTERNATIONAL BOYCOTT PROHIBITION. In accordance with Section 220-f of the Labor Law and Section 139-h of the State Finance Law, if this contract exceeds \$5,000, the Contractor agrees, as a material condition of the contract, that neither the Contractor nor any substantially owned or affiliated person, firm, partnership or corporation has participated, is participating, or shall participate in an international boycott in violation of the federal Export Administration Act of 1979 (50 USC App. Sections 2401 et seq.) or regulations thereunder. If such Contractor, or any of the aforesaid affiliates of Contractor, is convicted or is otherwise found to have violated said laws or regulations upon the final determination of the United States Commerce Department or any other appropriate agency of the United States subsequent to the contract's execution, such contract, amendment or modification thereto shall be rendered forfeit and void. The Contractor shall so notify the State Comptroller within five (5) business days of such conviction, determination or disposition of appeal (2 NYCRR § 105.4).

9. SET-OFF RIGHTS. The State shall have all of its common law, equitable and statutory rights of set-off. These rights shall include, but not be limited to, the State's option to withhold for the purposes of set-off any moneys due to the Contractor under this contract up to any amounts due and owing to the State with regard to this contract, any other contract with any State department or agency, including any contract for a term commencing prior to the term of this contract, plus any amounts due and owing to the State for any other reason including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. The State shall exercise its set-off rights in accordance with normal State practices including, in cases of set-off pursuant to an audit, the finalization of such audit by the State agency, its representatives, or the State Comptroller.

10. RECORDS. The Contractor shall establish and maintain complete and accurate books, records, documents, accounts and other evidence directly pertinent to performance under this contract (hereinafter, collectively, the "Records"). The Records must be kept for the balance of the calendar year in which they were made and for six (6) additional years thereafter. The State Comptroller, the Attorney General and any other person or entity authorized to conduct an examination, as well as the

agency or agencies involved in this contract, shall have access to the Records during normal business hours at an office of the Contractor within the State of New York or, if no such office is available, at a mutually agreeable and reasonable venue within the State, for the term specified above for the purposes of inspection, auditing and copying. The State shall take reasonable steps to protect from public disclosure any of the Records which are exempt from disclosure under Section 87 of the Public Officers Law (the "Statute") provided that: (i) the Contractor shall timely inform an appropriate State official, in writing, that said records should not be disclosed; and (ii) said records shall be sufficiently identified; and (iii) designation of said records as exempt under the Statute is reasonable. Nothing contained herein shall diminish, or in any way adversely affect, the State's right to discovery in any pending or future litigation.

11. IDENTIFYING INFORMATION AND PRIVACY NOTIFICATION. (a) Identification Number(s). Every invoice or New York State Claim for Payment submitted to a New York State agency by a payee, for payment for the sale of goods or services or for transactions (e.g., leases, easements, licenses, etc.) related to real or personal property must include the payee's identification number. The number is any or all of the following: (i) the payee's Federal employer identification number, (ii) the payee's Federal social security number, and/or (iii) the payee's Vendor Identification Number assigned by the Statewide Financial System. Failure to include such number or numbers may delay payment. Where the payee does not have such number or numbers, the payee, on its invoice or Claim for Payment, must give the reason or reasons why the payee does not have such number or numbers.

(b) Privacy Notification. (1) The authority to request the above personal information from a seller of goods or services or a lessor of real or personal property, and the authority to maintain such information, is found in Section 5 of the State Tax Law. Disclosure of this information by the seller or lessor to the State is mandatory. The principal purpose for which the information is collected is to enable the State to identify individuals, businesses and others who have been delinquent in filing tax returns or may have understated their tax liabilities and to generally identify persons affected by the taxes administered by the Commissioner of Taxation and Finance. The information will be used for tax administration purposes and for any other purpose authorized by law. (2) The personal information is requested by the purchasing unit of the agency contracting to purchase the goods or services or lease the real or personal property covered by this contract or lease. The information is maintained in the Statewide Financial System by the Vendor Management Unit within the Bureau of State Expenditures, Office of the State Comptroller, 110 State Street, Albany, New York 12236.

12. EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITIES AND WOMEN. In accordance with Section 312 of the Executive Law and 5 NYCRR Part 143, if this contract is: (i) a written agreement or purchase order instrument, providing for a total expenditure in excess of

\$25,000.00, whereby a contracting agency is committed to expend or does expend funds in return for labor, services, supplies, equipment, materials or any combination of the foregoing, to be performed for, or rendered or furnished to the contracting agency; or (ii) a written agreement in excess of \$100,000.00 whereby a contracting agency is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon; or (iii) a written agreement in excess of \$100,000.00 whereby the owner of a State assisted housing project is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon for such project, then the following shall apply and by signing this agreement the Contractor certifies and affirms that it is Contractor's equal employment opportunity policy that:

(a) The Contractor will not discriminate against employees or applicants for employment because of race, creed, color, national origin, sex, age, disability or marital status, shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on State contracts and will undertake or continue existing programs of affirmative action to ensure that minority group members and women are afforded equal employment opportunities without discrimination. Affirmative action shall mean recruitment, employment, job assignment, promotion, upgradings, demotion, transfer, layoff, or termination and rates of pay or other forms of compensation;

(b) at the request of the contracting agency, the Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of the Contractor's obligations herein; and

(c) the Contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the State contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.

Contractor will include the provisions of "a," "b," and "c" above, in every subcontract over \$25,000.00 for the construction, demolition, replacement, major repair, renovation, planning or design of real property and improvements thereon (the "Work") except where the Work is for the beneficial use of the Contractor. Section 312 does not apply to: (i) work, goods or services unrelated to this contract; or (ii) employment outside New York State. The State shall consider compliance by a contractor or subcontractor with the requirements of any federal law concerning equal employment opportunity which effectuates the purpose of this clause. The

contracting agency shall determine whether the imposition of the requirements of the provisions hereof duplicate or conflict with any such federal law and if such duplication or conflict exists, the contracting agency shall waive the applicability of Section 312 to the extent of such duplication or conflict. Contractor will comply with all duly promulgated and lawful rules and regulations of the Department of Economic Development's Division of Minority and Women's Business Development pertaining hereto.

13. CONFLICTING TERMS. In the event of a conflict between the terms of the contract (including any and all attachments thereto and amendments thereof) and the terms of this Appendix A, the terms of this Appendix A shall control.

14. GOVERNING LAW. This contract shall be governed by the laws of the State of New York except where the Federal supremacy clause requires otherwise.

15. LATE PAYMENT. Timeliness of payment and any interest to be paid to Contractor for late payment shall be governed by Article 11-A of the State Finance Law to the extent required by law.

16. NO ARBITRATION. Disputes involving this contract, including the breach or alleged breach thereof, may not be submitted to binding arbitration (except where statutorily authorized), but must, instead, be heard in a court of competent jurisdiction of the State of New York.

17. SERVICE OF PROCESS. In addition to the methods of service allowed by the State Civil Practice Law & Rules ("CPLR"), Contractor hereby consents to service of process upon it by registered or certified mail, return receipt requested. Service hereunder shall be complete upon Contractor's actual receipt of process or upon the State's receipt of the return thereof by the United States Postal Service as refused or undeliverable. Contractor must promptly notify the State, in writing, of each and every change of address to which service of process can be made. Service by the State to the last known address shall be sufficient. Contractor will have thirty (30) calendar days after service hereunder is complete in which to respond.

18. PROHIBITION ON PURCHASE OF TROPICAL HARDWOODS. The Contractor certifies and warrants that all wood products to be used under this contract award will be in accordance with, but not limited to, the specifications and provisions of Section 165 of the State Finance Law, (Use of Tropical Hardwoods) which prohibits purchase and use of tropical hardwoods, unless specifically exempted, by the State or any governmental agency or political subdivision or public benefit corporation. Qualification for an exemption under this law will be the responsibility of the contractor to establish to meet with the approval of the State.

In addition, when any portion of this contract involving the use of woods, whether supply or installation, is to be performed by

any subcontractor, the prime Contractor will indicate and certify in the submitted bid proposal that the subcontractor has been informed and is in compliance with specifications and provisions regarding use of tropical hardwoods as detailed in § 165 State Finance Law. Any such use must meet with the approval of the State; otherwise, the bid may not be considered responsive. Under bidder certifications, proof of qualification for exemption will be the responsibility of the Contractor to meet with the approval of the State.

19. MACBRIDE FAIR EMPLOYMENT PRINCIPLES (APPLICABLE ONLY IN NON-FEDERAL AID NEW YORK STATE CONTRACTS). In accordance with the MacBride Fair Employment Principles (Chapter 807 of the Laws of 1992), the Contractor hereby stipulates that the Contractor either (a) has no business operations in Northern Ireland, or (b) shall take lawful steps in good faith to conduct any business operations in Northern Ireland in accordance with the MacBride Fair Employment Principles (as described in Section 165 of the New York State Finance Law), and shall permit independent monitoring of compliance with such principles.

20. OMNIBUS PROCUREMENT ACT OF 1992 (APPLICABLE ONLY IN NON-FEDERAL AID NEW YORK STATE CONTRACTS). It is the policy of New York State to maximize opportunities for the participation of New York State business enterprises, including minority- and women-owned business enterprises as bidders, subcontractors and suppliers on its procurement contracts.

Information on the availability of New York State subcontractors and suppliers is available from:

NYS Department of Economic Development
Division for Small Business
Albany, New York 12245
Telephone: 518-292-5100
Fax: 518-292-5884
email: opa@esd.ny.gov

A directory of certified minority- and women-owned business enterprises is available from:

NYS Department of Economic Development
Division of Minority and Women's Business Development
633 Third Avenue
New York, NY 10017
212-803-2414
email: mwbecertification@esd.ny.gov
<https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp>

The Omnibus Procurement Act of 1992 (Chapter 844 of the Laws of 1992, codified in State Finance Law § 139-i and Public Authorities Law § 2879(3)(n)-(p)) requires that by signing this bid proposal or contract, as applicable, Contractors certify that whenever the total bid amount is greater than \$1 million:

(a) The Contractor has made reasonable efforts to encourage the participation of New York State Business Enterprises as suppliers and subcontractors, including certified minority- and women-owned business enterprises, on this project, and has retained the documentation of these efforts to be provided upon request to the State;

(b) The Contractor has complied with the Federal Equal Opportunity Act of 1972 (P.L. 92-261), as amended;

(c) The Contractor agrees to make reasonable efforts to provide notification to New York State residents of employment opportunities on this project through listing any such positions with the Job Service Division of the New York State Department of Labor, or providing such notification in such manner as is consistent with existing collective bargaining contracts or agreements. The Contractor agrees to document these efforts and to provide said documentation to the State upon request; and

(d) The Contractor acknowledges notice that the State may seek to obtain offset credits from foreign countries as a result of this contract and agrees to cooperate with the State in these efforts.

21. RECIPROCITY AND SANCTIONS PROVISIONS. Bidders are hereby notified that if their principal place of business is located in a country, nation, province, state or political subdivision that penalizes New York State vendors, and if the goods or services they offer will be substantially produced or performed outside New York State, the Omnibus Procurement Act 1994 and 2000 amendments (Chapter 684 and Chapter 383, respectively, codified in State Finance Law § 165(6) and Public Authorities Law § 2879(5)) require that they be denied contracts which they would otherwise obtain. NOTE: As of October 2019, the list of discriminatory jurisdictions subject to this provision includes the states of South Carolina, Alaska, West Virginia, Wyoming, Louisiana and Hawaii.

22. COMPLIANCE WITH BREACH NOTIFICATION AND DATA SECURITY LAWS. Contractor shall comply with the provisions of the New York State Information Security Breach and Notification Act (General Business Law § 899-aa and State Technology Law § 208) and commencing March 21, 2020 shall also comply with General Business Law § 899-bb.

23. COMPLIANCE WITH CONSULTANT DISCLOSURE LAW. If this is a contract for consulting services, defined for purposes of this requirement to include analysis, evaluation, research, training, data processing, computer programming, engineering, environmental, health, and mental health services, accounting, auditing, paralegal, legal or similar services, then, in accordance with Section 163 (4)(g) of the State Finance Law (as amended by Chapter 10 of the Laws of 2006), the Contractor shall timely, accurately and properly comply with the requirement to submit an annual employment report for the contract to the agency that awarded

the contract, the Department of Civil Service and the State Comptroller.

24. PROCUREMENT LOBBYING. To the extent this agreement is a "procurement contract" as defined by State Finance Law §§ 139-j and 139-k, by signing this agreement the contractor certifies and affirms that all disclosures made in accordance with State Finance Law §§ 139-j and 139-k are complete, true and accurate. In the event such certification is found to be intentionally false or intentionally incomplete, the State may terminate the agreement by providing written notification to the Contractor in accordance with the terms of the agreement.

25. CERTIFICATION OF REGISTRATION TO COLLECT SALES AND COMPENSATING USE TAX BY CERTAIN STATE CONTRACTORS, AFFILIATES AND SUBCONTRACTORS.

To the extent this agreement is a contract as defined by Tax Law § 5-a, if the contractor fails to make the certification required by Tax Law § 5-a or if during the term of the contract, the Department of Taxation and Finance or the covered agency, as defined by Tax Law § 5-a, discovers that the certification, made under penalty of perjury, is false, then such failure to file or false certification shall be a material breach of this contract and this contract may be terminated, by providing written notification to the Contractor in accordance with the terms of the agreement, if the covered agency determines that such action is in the best interest of the State.

26. IRAN DIVESTMENT ACT. By entering into this Agreement, Contractor certifies in accordance with State Finance Law § 165-a that it is not on the "Entities Determined to be Non-Responsive Bidders/Offerers pursuant to the New York State Iran Divestment Act of 2012" ("Prohibited Entities List") posted at: <https://ogs.ny.gov/list-entities-determined-be-non-responsive-biddersofferers-pursuant-nys-iran-divestment-act-2012>

Contractor further certifies that it will not utilize on this Contract any subcontractor that is identified on the Prohibited Entities List. Contractor agrees that should it seek to renew or extend this Contract, it must provide the same certification at the time the Contract is renewed or extended. Contractor also agrees that any proposed Assignee of this Contract will be required to certify that it is not on the Prohibited Entities List before the contract assignment will be approved by the State.

During the term of the Contract, should the state agency receive information that a person (as defined in State Finance Law § 165-a) is in violation of the above-referenced certifications, the state agency will review such information and offer the person an opportunity to respond. If the person fails to demonstrate that it has ceased its engagement in the investment activity which is in violation of the Act within 90 days after the determination of such violation, then the state agency shall take such action as may be appropriate and provided for by law, rule, or contract, including, but not limited to, imposing sanctions,

seeking compliance, recovering damages, or declaring the Contractor in default.

The state agency reserves the right to reject any bid, request for assignment, renewal or extension for an entity that appears on the Prohibited Entities List prior to the award, assignment, renewal or extension of a contract, and to pursue a responsibility review with respect to any entity that is awarded a contract and appears on the Prohibited Entities list after contract award.

27. ADMISSIBILITY OF REPRODUCTION OF CONTRACT. Notwithstanding the best evidence rule or any other legal principle or rule of evidence to the contrary, the Contractor acknowledges and agrees that it waives any and all objections to the admissibility into evidence at any court proceeding or to the use at any examination before trial of an electronic reproduction of this contract, in the form approved by the State Comptroller, if such approval was required, regardless of whether the original of said contract is in existence.

LABOR AND EMPLOYMENT PROVISIONS

The provisions of NYS Labor Law, as amended, and referred to in *Standard Clauses for All New York State Contracts*, shall be applicable. On contracts financed with Federal-Aid, any provisions of NYS Labor Law that are in conflict with mandatory Federal-Aid construction contract compliance requirements, as contained in 23 CFR 635.117 are superseded. Any provisions of NYS Labor Law that are not in conflict with mandatory Federal-Aid construction contract compliance requirements, or the Davis-Bacon Act, but are more restrictive, shall apply.

The Contractor shall directly employ those members of its own organization. Employee leasing and other similar arrangements under which workers are employed by another organization are not permitted. No procedures or requirement shall be imposed by any state which will operate to discriminate against the employment of labor from any other state, possession or territory of the United States, in the construction of a Federal-Aid project. The selection of labor to be employed by the Contractor on any Federal-Aid project shall be of its choosing.

The Contractor shall not use convict labor unless performed by convicts who are on parole, supervised release, or probation for construction, maintenance or any other purpose at the site or within the contract limits from the time of contract award until contract final acceptance by DDC (the Department).

A. Wages. The Department will identify in the bid documents whether the NYS Department of Labor (NYSDOL) has determined the work under the contract to be prevailing wage eligible, and if so, the Department will provide the Prevailing Rate Case (PRC) number. The PRC number is found on NYSDOL Form PW-200. The Contractor shall ensure that workers are paid the appropriate wages and supplemental (fringe) benefits. If the contract is prevailing wage eligible, all on-site work shall be paid prevailing wages. When both State and Federal prevailing wages apply, the Contractor shall pay the higher of the combination of the wages and supplemental (fringe) benefits. The Contractor shall obtain periodic wage rate schedule updates from the NYSDOL. Wage rate amendments and supplements are available on the NYSDOL web site at <https://www.labor.ny.gov/workerprotection/publicwork/pwcontents.shtm>. All changes or clarification of labor classification(s) and applicability of prevailing wage rates shall be obtained in writing from the Office of the Director, NYSDOL Bureau of Public Work. The Contractor shall include the cost of changes in prevailing wages and supplemental (fringe) benefits over the contract duration in the contract bid prices.

B. Overtime Dispensation. All bidders, in submitting their bids, should base their bids and work progression on the assumption that Overtime Dispensation pursuant to Article 8 of the New York State Labor Law, for any workers, laborers, and mechanics to work more than 8 hours in any one calendar day or more than 5 days in any one week will not be granted for any operation for the contract duration. Regardless of approval or disapproval of overtime by the NYSDOL, no adjustment will be made in any bid prices.

Subsequent to award, where the contract proposal has imposed specific scheduling and/or phasing requirements or where it is determined by the Department to be in the best interest of the public, the Department may process, for approval by the NYSDOL, requests for overtime dispensation on certain specific operations.

The Contractor shall submit requests for overtime dispensation to the Department on Form PW- 30, Application for Dispensation for Hours, which will be provided by the Engineer upon request. The Department will review applications for overtime dispensation submitted by the Contractor associated with contracts subject to (A+B) Bidding, Incentive/Disincentive (I/D) or Lane Rental work favorably, but the application should not request more than 60 hours per week. The 60 hours per week may be either 6 - 10 hour days or 5 - 12 hour days. Overtime dispensations will be supported by the Department to advance Department goals and priorities, subject to specific circumstances and conditions associated with each contract.

The Department cannot guarantee that the NYSDOL will grant dispensation from restrictions pursuant to the provisions of Article 8 of the State Labor Law, however with the Department's certification, it is anticipated that they will act favorably, provided that the Contractor is in compliance with Labor Law requirements at the time of application.

C. Payrolls. The Contractor shall provide the Engineer with weekly certified payrolls from each firm engaged in work during the preceding weekly payroll period performed by prevailing wage eligible workers.

Certified payrolls shall contain for each employee, name, race, gender, home address, an individually identifying number (e.g. the last 4 digits of the employee's social security number), work class, hours worked, wage rate, supplemental (fringe)

benefits paid or provided, payroll taxes, withholdings and actual wages paid. Certified payrolls shall not include full social security numbers of employees. Certified payrolls shall be submitted on Form WH-347 or Form HC-231-1 for Federal- Aid contracts and on HC-231-1 for non Federal-Aid contracts. At the Contractor's option, other payroll formats, which supply the required data and certifications, may be used. Each certified payroll submitted shall be accompanied by a Statement of Compliance signed by the Contractor. If the firm does not maintain a place of business in New York State and the amount of the contract exceeds \$25,000, payroll records and certifications shall be kept on the worksite.

Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to NYSDOL or USDOL for purposes of an investigation or audit of compliance with prevailing wage requirements. Contractors may require subcontractors to provide addresses and social security numbers to the Contractor for its own records, without weekly submission to the Department.

D. Apprenticeship.**(1) Apprenticeship Program Requirements**

Notice to Bidders: Please be advised that, pursuant to the authority granted to the City under Labor Law Section 816-b, the Department of Design and Construction hereby requires that the contractor awarded a contract as a result of this Invitation for Bids, and any of its subcontractors with subcontracts worth two million dollars or over, have, prior to entering into such contract or subcontract, apprenticeship agreements appropriate for the type and scope of work to be performed that have been registered with, and approved by, the New York State Commissioner of Labor. In addition, the contractor and its subcontractors will be required to show that such apprenticeship program/s have successfully passed the two year Probation period following the initial registration date of such program/s with the New York State Department of Labor.

The failure to prove, upon request, that these requirements have been met shall result in the contract not being awarded to the contractor or the subcontract not being approved.

Please be further advised that, pursuant to Labor Law Section 220, the allowable ratio of apprentices to journeypersons in any craft classification shall not be greater than the ratio permitted to the contractor as to its workforce on any job under the registered apprenticeship program.

(2) Apprenticeship Program Questionnaire

The bidder must submit a completed and signed Apprenticeship Program Questionnaire. The Questionnaire is located in the Bid Booklet, in Volume 1 of 3 of this contract.

PUBLIC NOTICES

Before commencing any work on the site, the Contractor shall provide a satisfactory weather resistant surface, and post, in a location accessible to all workers, a copy of the NYSDOL schedules of prevailing wages and supplements for this contract, a copy of all redeterminations of such schedules for the contract, the Workers' Compensation Law notice, required safety notices, and all other notices required by law to be posted at the site. The Contractor shall maintain such notices in a legible manner and shall replace any notice or schedule which is damaged, defaced, illegible or removed for any reason. The notices shall be maintained until all work on the site is complete.

**NOTICE TO ALL PROSPECTIVE BIDDERS
FEDERAL-AID CONTRACTS**

ASSURANCE OF NON-DISCRIMINATION

The New York State Department of Transportation, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation and Title 23 Code of Federal Regulations, Part 200, Title VI Program and Related Statutes, as amended, issued pursuant to such Acts, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age, disability/handicap and income status in consideration for an award.

SUBCONTRACTS

The attention of the Contractor is directed to the requirement that the standard contract clauses, as set forth in the Proposal and in the NYS Department of Transportation Labor Compliance Manual (Federal-aid Construction, Appendix D-2, 3) must be physically incorporated in all subcontracts.

Copies of the Labor Compliance Manual referred to above may be examined in the office of the NYS Department of Transportation Regional Director.

SUPPLEMENTAL TITLE VI PROVISIONS (CIVIL RIGHTS ACT)

(To be included in all contracts)

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

- (1) Compliance with Regulations:** The contractor shall comply with the Regulation relative to nondiscrimination in Federally assisted programs of the Department of Transportation of the United States, Title 49, Code of Federal Regulations, Part 21, and the Federal Highway Administration (hereinafter "FHWA") Title 23, Code of Federal Regulations, Part 200 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- (2) Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, religion, age, color, sex or national origin, sex, age, and disability/handicap in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR, section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

- (3) Solicitations for Subcontractors, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin, sex, age, and disability/handicap.
- (4) Information and Reports: The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by NYSDOT or the FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information the contractor shall so certify to NYSDOT's Office of Civil Rights or FHWA, as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, NYSDOT shall impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
- a) Withholding of payments to the contractor under the contract until the contractor complies; and/or
 - b) Cancellation, termination or suspension of the contract, in whole or in part.
- (6) Incorporation of Provisions: The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

The contractor shall take such action with respect to any subcontractor procurement as NYSDOT or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request NYSDOT to enter into such litigation to protect the interests of NYSDOT, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS

DBE UTILIZATION. DBE refers to a Disadvantaged Business Enterprise (DBE). The DBE program applies to Federal-Aid contracts. The program seeks to:

- Ensure nondiscrimination in the award and administration of Federal-Aid contracts;
- Create a level playing field on which DBEs can fairly compete for Federal-Aid contracts;
- Ensure that the DBE program is narrowly tailored in accordance with applicable law;
- Ensure that only firms that fully meet DBE eligibility standards are permitted to participate as DBEs;
- Help remove barriers to the participation of DBEs in Federal-Aid contracts;
- Promote the use of DBEs in all types of federally-assisted contracts and procurement activities conducted by recipients of Federal financial assistance;
- Assist in the development of firms that can compete successfully in the marketplace outside the DBE program; and
- Provide appropriate flexibility to recipients of Federal financial assistance in establishing and providing opportunities for DBEs.

The parties to this contract shall take all necessary and reasonable steps in accordance with the laws, rules and regulations cited in this subsection to promote the objectives outlined above. The Contractor shall comply with the applicable laws, rules and regulations and the DBE Program Assurance stated below.

DBE Program Assurance. The Contractor or Subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of Federal-Aid contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as DDC (the Department) deems appropriate, which may include, but is not limited to: (1) withholding contract payments; (2) assessing sanctions; (3) liquidated damages; (4) rejecting the bid as non-responsive; and/or (5) disqualifying the Contractor from future bidding as non-responsive.

A. Statutory Authority. The statutory authority for the DBE Program is contained in the Intermodal Surface Transportation Efficiency Act of 1991 (Public Law 102-240), the Transportation Equity Act for the 21st Century (“TEA-21”) of 1998 (Public Law 105-178, §1101(b)), the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (“SAFETEA-LU”) of 2005 (Public Law 105-59 §1101(b)), the Moving Ahead for Progress in the 21st Century Act (“MAP-21”) of 2012 (Public Law 112-141, §1101(b)), and the Fixing America’s Surface Transportation Act (“FAST-ACT”) of 2015 (Public Law 114-94, §1101(b)). New York State has enacted Section 85 of the Highway Law and Section 428 of the Transportation Law. Regulations have been promulgated under 49 CFR 21, 49 CFR 26 and 17 NYCRR 35.

B. DBE Goal(s). Federal-aid construction contracts have a single DBE goal. The Department will monitor the Contractor’s attainments towards DBE goals and commitments in accordance with Attachment H, *Civil Rights Monitoring and Reporting*.

1. Established Goal(s). Contract utilization goal(s) for DBEs are expressed as a percentage of the total contract price. The goal(s) are stated in the proposal and remain in effect throughout the life of the contract.

2. Zero Percent Goal(s). If a zero goal(s) for participation by DBEs has been established, and the Contractor proposes the use of a subcontractor, the purchase of materials, the use of a service or the use of trucking at any time during the life of the contract, the

ATTACHMENT "D"

Contractor shall promote the objectives of the DBE Program by providing opportunities for DBEs to participate in these areas.

C. DBE Eligibility. Only the work, services, or products provided by DBE firms that are certified by the New York State Unified Certification Program, under NAICS code(s) which the DBE is certified for, at the time the DBE enters into a contract with the Contractor, can be credited towards the contract goal. DBE certification is not an endorsement of the quality or performance of the business but simply an acknowledgment of the firm's status as a DBE. Furthermore, DBEs must be certified for the type of work to be performed. A directory of certified firms is available on the NYS Unified Certification Program website at <https://nysucp.newnycontracts.com>.

D. Counting DBE Participation Towards the DBE Goal(s). The value of the work performed by a DBE, including that of a DBE prime contractor, will be counted toward the goal(s), provided the utilization is a commercially useful function. A DBE prime contractor shall promote the use of DBEs in all types of contracts and procurement activities. Work performed by DBEs on the contract will be counted as set forth below. If the Department determines that some or all of a DBE's work does not constitute a commercially useful function in accordance with Article I of this Attachment, only the portion of the work considered to be a commercially useful function will be credited toward the goal(s).

1. Subcontractors. A Subcontractor is a firm approved by the Department in accordance with Article VI of Attachment "A" of these TF-Pages to perform on-site work specifically required for the performance of the contract.

100% of the value of the work performed by a DBE Subcontractor will be counted toward the DBE goal(s), including the cost of materials and supplies purchased by the DBE. When a DBE subcontracts part of the work of its contract to another firm, the value of the subcontracted work may be counted toward DBE goals only if the DBE's subcontractor is itself a DBE. Work that a DBE subcontracts to a non-DBE firm does not count toward DBE goals.

2. Joint Ventures. A Joint venture between a DBE and a non-DBE as a Subcontractor will be counted toward the DBE goal(s) in proportion to the total dollar value of the contract equal to the distinct, clearly defined portion of the work that the DBE performs with its own forces. The joint venture agreement is subject to approval by the Department, a copy of which is to be furnished by the Contractor before execution of the contract. The joint venture agreement must include a detailed breakdown of the following:

- a. Responsibility of the DBE for specific contract items of work;
- b. Capital participation by the DBE;
- c. Specific equipment to be provided to the joint venture by the DBE;
- d. Specific responsibilities of the DBE in the control of the joint venture;
- e. Specific staffing and skills to be provided to the joint venture by the DBE; and,
- f. Percentage distribution to the DBE of the projected profit or loss incurred by the joint venture.

3. Manufacturers. A Manufacturer operates or maintains a factory or establishment that produces, on the premises, materials, supplies, articles or equipment of the general character described by the specifications.

100% of the cost of the materials or supplies from a DBE Manufacturer will be counted toward the DBE goal(s). Manufacturers may provide materials to the Contractor, a Subcontractor, or other firm working on the contract for installation. The Department will determine the amount of credit for DBE Manufacturers on a contract-by-contract basis.

4. Material Suppliers. A Material Supplier, also known as a regular dealer, is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. A Material Supplier is an established, regular business that engages in, as its principal business, and under its own name, the purchase and sale or lease of the products in question.

A Material Supplier who deals in bulk items such as petroleum products, steel, cement, gravel, stone or asphalt need not own, operate nor maintain a store, warehouse, or other establishment, if it owns and operates distribution equipment for the products. Any supplementing of Material Suppliers' own distribution equipment shall be by a long-term lease agreement and not on an ad hoc or contract-by-contract basis.

60% of the cost of the materials or supplies from a DBE Material Supplier will be counted toward the DBE goal. Material Suppliers may provide materials to the Contractor, a Subcontractor, or other firm working on the contract for installation.

5. Brokers/Manufacturer's Representatives. A Broker/Manufacturer's Representative is a firm that arranges for or expedites transactions for materials.

100% of the expenditures for fees or commissions charged for assistance in the procurement of, or fees for transportation charges for the delivery of, materials or supplies provided by a DBE Broker/Manufacturer's Representative will be counted toward the DBE goal(s), provided they are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services. The cost of the materials and supplies themselves will not be counted. A Broker/Manufacturer's Representative may arrange or expedite transactions for materials to the Contractor, Subcontractor, or other firm working on the contract.

6. Services. A Service is a firm that provides a bona fide service, such as professional, technical, consultant, or managerial services, or provides bonds or insurance specifically required for the performance of the contract.

100% of the expenditure for fees charged by a DBE Service will be counted toward the DBE goal(s), provided the fee is reasonable and not excessive as compared with fees customarily allowed for similar services.

7. Trucking Firms. A DBE trucking firm shall own and operate at least one fully licensed, insured, and operational truck used on the contract and shall be responsible for the management and supervision of the trucking operation for which it is responsible. The DBE trucking firm shall control the day-to-day DBE trucking operations, and shall be responsible for: (1) Negotiating and executing rental/leasing agreements; (2) Controlling the work force; (3) Coordinating the daily trucking needs with the Contractor or Subcontractor; and (4) Scheduling and dispatching trucks.

a. DBE Owned/Leased Trucks. 100% of the value of the trucking operations the DBE provides on the contract using trucks it owns or leases on a long-term basis that are registered, insured, and operated by the DBE using drivers it employs, will be counted toward the DBE goal. A lease shall indicate that the DBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. Leased trucks shall display the name and identification number of the DBE.

b. Other DBE Trucks. The DBE may obtain trucks from another DBE, including an owner/operator. 100% of the value of the trucking operations that the other DBE provides will also be counted toward the DBE goal.

c. Non-DBE Trucks. The DBE may obtain trucks from a non-DBE, including an owner-operator. Only the value of the fee or commission that the DBE receives as a result of the arrangement with the non-DBE will be counted toward the DBE goal.

E. Commercially Useful Function. A DBE’s participation will only be counted toward meeting the DBE contract goal(s) when it performs a commercially useful function. In order to be considered as performing a commercially useful function, a DBE shall be responsible for the execution of a distinct element of work on the contract and carry out its responsibilities by actually performing, managing, and supervising the work involved in accordance with normal industry practice.

Regardless of whether an arrangement between the Contractor and the DBE represent standard industry practice, if the arrangement erodes the ownership, control or independence of the DBE or in any other way does not meet the commercially useful function requirement, the Contractor will receive no credit toward the goal(s) and shall take all necessary and reasonable steps to backfill the participation. Additionally, a DBE not performing a commercially useful function may, in some instances, warrant further investigation of the DBE’s certification status or review of the DBE for fraud. A DBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction or contract through which funds are passed in order to obtain the appearance of DBE participation. The arrangement cannot be contrived solely for the purpose of meeting the DBE goal(s). The Contractor shall not seek credit toward the goal(s) though any arrangements or actions of others where the Contractor knows, or should know based upon the evidence and circumstances present, that a DBE is not performing a commercially useful function.

1. Work Force. The DBE shall employ a work force, (including administrative and clerical) separate and apart from that employed by the Contractor, other Subcontractors on the contract, or their affiliates. The DBE shall perform or exercise responsibility for at least 30 percent of the total cost of its contract with its own work force. This does not preclude the employment by the DBE of an individual that has been previously employed by another firm involved in the contract, provided that the individual was independently recruited by the DBE in accordance with customary industry practice. The routine transfer of work crews from another employer to the DBE will not be allowed.

2. Supervision. All work performed by the DBE shall be controlled and supervised by the DBE without duplication of supervisory personnel from the Contractor, other Subcontractors on the contract, or their affiliates. This does not preclude routine communication between the supervisory personnel of the DBE and other supervisors necessary to coordinate the contract work.

3. Materials. DBE Subcontractors shall negotiate price, determine quality and quantity, order, install (where applicable) and pay for the material(s) required to perform the work.

4. Equipment. DBE Subcontractors may supplement their equipment by renting or leasing additional equipment in accordance with customary industry practice. The DBE Subcontractor shall obtain approval of the Department prior to renting equipment from the Contractor or its affiliates, and shall provide documentation demonstrating that similar equipment and terms could not be obtained at a lower cost from other customary sources of equipment. The required documentation shall include, but not be limited to, copies of the rental or leasing agreements, and the names, addresses, and terms quoted by other

sources of equipment. Equipment a DBE subcontractor purchases or leases from the Contractor or its affiliate will not be counted toward meeting the DBE contract goal(s).

F. Not Used.

G. Submission of Bids. In submitting a bid, the bidder declares that it shall make commitments to those qualified DBEs whose participation the bidder submits to meet the contract goal(s).

The bidder further declares that if the contract goal(s) is not met in full, then it shall provide documentation of its Good Faith Efforts that demonstrate that the bidder attempted, but could not meet the goal(s).

If the low bidder meets or exceeds the established DBE goal(s) for the contract with commitments to certified DBEs, it is not necessary for the low bidder to submit documentation of good faith efforts.

After contract award, the Contractor shall promptly execute subcontracts, agreements, or purchase orders, as appropriate, with each DBE for the type and amount of work identified in the approved *DBE Utilization Worksheet*.

H. DBE Pre-Award Utilization Package. Together with its bid, each bidder shall submit a completed DBE Schedule of Utilization, as outlined below. While there is no mandatory format for the Schedule of Utilization, the bidder may use NYSDOT form AAP19LL (<https://www.dot.ny.gov/programs/chips/chips-repository/AAP19LL.xls> and in the Bid Booklet). Other forms may be used so long as the bidder states in writing that it can meet the requirements of this section.

A commitment to a DBE is expressed as a dollar amount agreed to by both the bidder and the DBE for the performance of identified work, services or products. Commitments are for quantities of contract pay items, or associated to contract pay items for work, services or products that are not measured in the same manner as the contract pay item. Commitments for less than the full scope of the contract pay item shall be indicated as such in the DBE Schedule of Utilization.

For each DBE Subcontractor, the bidder shall indicate the contract pay item number(s) of the work to be performed. The bidder shall explain, in writing, the scope of work to be performed by the DBE for any item which is not completely performed by the DBE Subcontractor. This does not include items for which the Contractor is performing less than the total contract quantity for that item.

For each DBE Manufacturer, Material Supplier, or Broker, the bidder shall indicate the contract pay item number(s) of the materials, supplies, articles, or equipment to be manufactured, fabricated, supplied, or otherwise provided. If the material, supplies, articles, equipment or service does not correspond to a specific contract pay item, the bidder shall use a contract pay item(s) to which the activity relates.

For each DBE Service, the bidder shall indicate the contract pay item number(s) of the service to be provided. If the equipment or service does not correspond to a specific contract pay item, the bidder shall use a contract pay item(s) to which the activity relates.

For each DBE Trucking Firm, the bidder shall indicate the contract pay item number(s) for which the trucking operations are to be performed. If the trucking operation does not correspond to a specific contract pay item, the bidder shall use a contract pay item(s) to which the activity relates. The bidder shall indicate the type of trucking operation to be performed, the number of trucks owned/leased, the number of trucks working on-site or off-site, rate per hour/ton/load/etc., duration or amount, and total dollar value of the proposed DBE

commitment. The bidder shall provide copies of all lease agreements utilized by the DBE Trucking Firm.

If the bidder has met or exceeded the established DBE goal(s) for the contract utilizing certified DBEs it is not necessary to submit documentation of good faith efforts.

I. Good Faith Efforts. To determine whether a bidder that has failed to meet the DBE contract goal(s) may receive the contract, the Department, in consultation with NYSDOT, will decide whether the efforts the bidder made "good faith efforts" to obtain DBE participation goal(s) pursuant to 49 CFR 26 Appendix A. Efforts to obtain DBE participation that are merely pro forma are not good faith efforts, nor are efforts that, even if they are sincerely motivated, given all relevant circumstances, they could not reasonably be expected to produce a level of DBE participation sufficient to meet the goal(s).

If the bidder has not met the DBE goal(s), it shall submit the *Solicitation Log*, together with other documentation that substantiates good faith efforts. Such documentation shall include, at a minimum, all envelopes of solicitation inquiries that were returned as undeliverable, quotations submitted by DBEs that are not included in the *DBE Schedule of Utilization*, and relevant non-DBE quotations with an explanation for the bidder's action in each case.

In order to evaluate the bidder's good faith efforts, the Department will consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made.

Below is a list of the types of actions which the Department will consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exhaustive or exclusive. Other factors or types of efforts may be relevant in appropriate cases.

- 1.** The bidder shall conduct market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of certified firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

The bidder should solicit this interest as early in the bidding process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder shall determine with certainty if the DBEs are interested by taking appropriate steps, including following up the initial solicitation with at least one additional solicitation via a different media. The bidder shall keep records of efforts to solicit and negotiate with DBEs as evidence of good-faith efforts, using the Solicitation Log as a continuing record.

- 3.** Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the Contractor might prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

- 4.** Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract.
- 5. a. *Negotiating in good faith with interested DBEs.*** It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

b. *Additional Costs.* A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. The fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. The ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- 6. a. *Not rejecting DBEs as being unqualified.*** The bidder shall not reject DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. Nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

b. *Replacement Prices.* A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.
- 7.** Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
- 8.** Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- 9.** Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- 10.** A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

J. Pre-Award Approval. In order to award a contract to a bidder that has failed to meet the DBE contract goal(s), the Department, in consultation with NYSDOT, must determine that the bidder's good faith efforts were those that, given all relevant circumstances, a bidder actively and aggressively seeking to meet the goal(s) would make.

If the Department determines that the original low bidder has failed to meet the good faith effort requirements before awarding the contract to a subsequent bidder, the Department will provide the original low bidder an opportunity for administrative reconsideration by an official who did not take part in the original determination.

As part of this reconsideration, the original low bidder will have the opportunity to provide written documentation or argument and to meet in person with the Department's reconsideration official concerning the issue of whether it met the goal or made adequate good faith efforts to do so. The Department will send the low bidder a written decision on reconsideration, explaining the basis for finding that the low bidder did or did not meet the goal or make adequate good faith efforts to do so.

K. Bidder's Compliance With DBE Program Requirements. The Department's acceptance of the low bidder's bid is conditioned upon the low bidder's fulfillment of the DBE utilization requirements. If the low bidder fails to submit a complete DBE utilization package with its bid or fails to provide commitments to meet the established goal prior to award without adequate good faith efforts, the bid shall be declared non-responsive and the deposit may be subject to forfeiture pursuant to Section 27 of the Information for Bidders. The low bidder, upon receipt of written notification of its failure to comply with the DBE utilization requirements shall have 5 work days to carry out the corrective action(s) described in the notification.

"BUY AMERICA" REQUIREMENTS & WAIVERS AND USE OF UNITED STATES-FLAG VESSELS.

BUY AMERICA In accordance with 23 USC 313 and 23 CFR 635.410, permanently incorporated predominantly steel and/or iron materials/products shall be domestically produced, regardless of the percentage the materials/products comprise in a manufactured product, or form the materials/products take.

A. Control of Materials.

To qualify as domestic, all manufacturing processes, including melting, manufacturing, fabricating, grinding, drilling, welding, finishing, and coating of any product containing steel and/or iron materials, must have been performed in the United States. A domestic product is a manufactured steel and/or iron material/product that was produced in one of the 50 States, the District of Columbia, or in the territories and possessions of the United States. Raw materials used in the steel and/or iron materials may be imported. Raw materials are materials such as raw iron ore, and waste products which are used in the manufacturing process to produce the steel and/or iron material/product. The FHWA has granted a nationwide waiver for pig iron and processed, pelletized and reduced iron ore. Waste products include scrap (i.e. steel no longer useful in its present form from old automobiles, machinery, pipe, railroad rail, steel trimmings from mills or product manufacturing). Extracting, crushing, and handling the raw materials which are customary to prepare them for transporting are exempt from Buy America. The use of foreign source steel billets or iron ingots are not acceptable under Buy America. All items, regardless of origin, shall comply with their individual specification requirements and with the requirements stated elsewhere in this subsection. The Contractor shall ensure the domestic steel and/or iron materials are supplied in conformance with the above referenced laws.

The Contractor may permanently incorporate in the construction of this contract a minimal amount of foreign steel and/or iron materials, if the combined cost of such materials does not exceed one-tenth of one percent (0.1%) of the total contract cost or \$2,500, whichever is greater. The combined cost of foreign steel and/or iron materials will be the value of the materials as they are delivered to the contract, documented by invoice or bill of sale to the Contractor.

B. Waivers.

The Contractor may request a waiver if it can be demonstrated that the use of domestic steel and/or iron materials would be inconsistent with the public interest or that such materials/products are not produced in the United States in sufficient and reasonably available quantities and of satisfactory quality.

The Contractor shall submit a waiver request to the Engineer which includes copies of all documentation verifying the unavailability of the material or product, and/or justification.

The Department will submit approved waiver requests to the FHWA for review. The Contractor shall investigate and respond to any public comments made to the FHWA Office of Program Administration, indicating that a domestic supplier can provide the material for which a waiver has been requested. Final approval of the Buy America Waiver request will be made by the Administrator, Federal Highway Administration. The waiver will be effective when it is posted in the Federal Register.

C. Certifications.

A Manufacturer's Certification is required to certify that the material/product is of domestic origin. The acceptable statement is: *"Conforms (or Does not Conform) to the requirements of 23 CFR 635.410 Buy America Requirements."*

USE OF UNITED STATES-FLAG VESSELS. In accordance with the Cargo Preference Act and 46 CFR 381, the requirements below apply to material, equipment, or commodities that is acquired for a specific Federal-aid construction contract, and oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment. The requirements are not applicable to goods or materials that come into inventories independent of a specific Federal-aid construction contract.

- A. The Contractor shall utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.
- B. The Contractor shall furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590. MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the Contractor.
- C. The Contractor shall insert the substance of the provisions of this section in all subcontracts issued pursuant to the contract.

EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENTS

DDC (The Department) seeks to ensure nondiscrimination in employment under all Department contracts. The Contractor shall comply with the following Equal Employment Opportunity (EEO) requirements. *Goals for Equal Opportunity Employment Participation* are listed in the required contract provisions section of the contract proposal.

For Federal-Aid contracts, Equal Employment Opportunity provisions are also found in Attachment “A” - *Required Contract Provisions Federal-Aid Construction Contracts – FHWA 1273*.

Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

A. Statutory Authority. The Federal statutory authority for Equal Employment Opportunity provisions is contained in 23 U.S.C. 140, Title VII of the Civil Rights Act of 1964, Federal Highway Act of 1968, and Executive Order 11246. State statutory authority is contained in Section 85 of the Highway Law, Section 428 of the Transportation Law, and NYS Executive Law Articles 15 and 15-A. Regulations have been promulgated under 23 CFR 200, 23 CFR 230, 41 CFR 60, 49 CFR 21, and 5 NYCRR 140-145.

B. Definitions.

For Federal-Aid contracts, a minority group member is defined under this subsection as someone who is, and can demonstrate membership in, one of the following groups:

- a. Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
- b. Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
- c. Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
- d. American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

C. Contractor Obligations. The Contractor shall develop and implement an EEO policy in accordance with Attachment A, *Required Contract Provisions Federal-Aid Construction Contracts – FHWA 1273* and in accordance with Attachment B, *Standard Clauses for All New York State Contracts*.

1. Non-Discrimination. The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability. The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

To the extent required by Article 15 of the Executive Law and all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor shall not

discriminate against any employee or applicant for employment because of military status, predisposing genetic characteristics, marital status, familial status, or domestic violence victim status; and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

Such actions shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Department setting forth the provisions of this non-discrimination clause.

2. Solicitations. The Contractor shall state in all solicitations or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, military status, disability, predisposing genetic characteristics, marital status, or domestic violence victim status.

3. Compensation Information. The Contractor shall not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.

4. Collective Bargaining Agreements. The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the Contractor's commitments to equal employment opportunities, under the Equal Opportunity Clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

5. Executive Order 11246. The Contractor shall comply with all provisions of Federal Executive Order 11246, and of the rules, regulations, and relevant orders of the U.S. Secretary of Labor.

6. Furnishing Information. The Contractor shall furnish all information and reports required by Executive Order 11246 and by rules, regulations, and orders of the U.S. Secretary of Labor, or pursuant thereto, and will permit access to its books, records, and accounts by the Department and the U.S. Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

7. Non-Compliance. In the event of the Contractor's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246, and such other

sanctions may be imposed and remedies invoked as provided in Executive Order 11246, or by rule, regulation, or order of the U.S. Secretary of Labor, or as otherwise provided by law.

8. Subcontracts/Purchase Orders. The Contractor shall include the provisions of Subsection C, *Contractor Obligations*, of this Attachment F, in every subcontract or purchase order, unless exempted by rules, regulations, or orders of the U.S. Secretary of Labor issued pursuant to section 204 of Executive Order 11246, so that such provisions will be binding upon each subcontractor or vendor. The Contractor shall take such action with respect to any subcontract or purchase order as may be directed by the U.S. Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

D. Employment Goals. Employment goal(s) for minorities and a separate goal for women are presented in the contract documents. The Contractor shall provide equal employment opportunity and shall take affirmative action for all minority groups, both male and female; and women, both minority and non-minority. The covered area is the county or counties in which the work is located. The Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

The Contractor shall not use the goals or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity, national origin, age, military status, disability, predisposing genetic characteristics, marital status, or domestic violence victim status.

If the Contractor performs work outside of the covered area, it shall apply the goals established for the county where the work is actually performed. The Department will monitor the Contractor's attainments towards EEO goals in accordance with Attachment H - *Civil Rights Monitoring and Reporting*.

The goals set for the contract are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress in meeting its goals in each trade.

The hours of minority and female employment and training shall be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its contracts. The transfer of minority or female employees, apprentices, or trainees from contractor to contractor or from contract to contract for the sole purpose of meeting the Contractor's goals is a violation of the contract, the Executive Order and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations.

The Contractor shall not enter into any subcontract with any person or firm debarred from government contracts pursuant to Executive Order 11246.

The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the

provisions hereof as may be required by the Government and to keep records. Contractor records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, classification (e.g., supervisor, journeyworker, apprentice, or trainee), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

The Contractor's compliance with the Executive Order and 41 CFR 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by these specifications and its efforts to meet the goals.

E. Affirmative Action Steps. The Contractor shall take specific affirmative actions to promote equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its efforts to ensure equal employment opportunity. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

1. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, shall assign two or more women to each construction contract. The Contractor shall specifically ensure that all forepersons, superintendents, and other onsite supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
3. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
4. Provide immediate written notification to the Department when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
5. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by either the NYS Department of Labor or the US Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under E.2. above.

6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as superintendents, forepersons, etc., prior to the initiation of construction work at any contract site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other contractors and Subcontractors with whom the Contractor does or anticipates doing business.

9. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

10. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of the Contractor's work force.

11. Validate all tests and other selection requirements in accordance with state and Federal laws, rules and regulations.

12. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities. Encourage these employees to seek or to prepare for promotional opportunities through appropriate training, etc.

13. Ensure that seniority practices, labor classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

14. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

15. Document and maintain a record of all solicitations of offers for Subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

16. Conduct a review, at least annually, of all supervisors’ adherence to and performance under the Contractor’s EEO policies and affirmative action obligations.

F. Complaints of Alleged Discrimination. The Contractor shall promptly investigate all complaints of alleged discrimination made to the Contractor in connection with its obligations under this contract, shall attempt to resolve such complaints, and shall take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, corrective action shall include such other persons. Upon completion of each investigation, the Contractor shall inform every complainant of all available avenues of appeal.

G. Associations. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations. The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling one or more of its obligations, provided that the Contractor actively participates in the group, makes every effort to ensure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the benefits of the program are reflected in the Contractor’s minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor’s and failure of such a group to fulfill an obligation shall not be a defense for the Contractor’s noncompliance.

H. Hometown Plans (Federal-Aid Contracts Only). If a Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the USDOL in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors participating in Hometown Plans shall be able to demonstrate their participation and document their compliance with the provision of the Hometown Plan. Each Contractor participating in an approved plan is individually required to comply with its obligation under the EEO clause and to make a good faith effort to achieve each goal under the plan in each trade in which it has employees. The overall good faith performance by other Contractors toward a goal in an approved plan does not excuse any covered Contractor’s failure to take good faith efforts to achieve the Plan goals and timetables.

Notice of Requirement for Affirmative Action To Ensure Equal Employment Opportunity (Executive Order 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation and female participation are in the "Goals for Equal Employment Opportunity (EEO) Participation" section at the end of this Attachment "F".
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These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the five Boroughs of New York City.

**Standard Federal Equal Employment Opportunity Construction Contract
Specifications (Executive Order 11246)**

1. As used in these specifications:

- a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
- b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
- c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
- d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and

female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority

person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity, or national origin.

11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

GOALS FOR EQUAL EMPLOYMENT OPPORTUNITY (EEO) PARTICIPATION

GOALS FOR MINORITY PARTICIPATION

COUNTY	%	COUNTY	%	COUNTY	%
Albany	3.2	Herkimer	2.1	* Richmond	
Allegany	6.3	Jefferson	2.5	Rockland.....	22.6
Broome	1.1	* Kings		St. Lawrence.....	2.5
* Bronx		Lewis	2.5	Saratoga	3.2
Cattaraugus.....	6.3	Livingston	5.3	Schenectady.....	3.2
Cayuga	2.5	Madison	3.8	Schoharie	2.6
Chautauqua	6.3	Monroe	5.3	Schuyler.....	1.2
Chemung	2.2	Montgomery	3.2	Seneca	5.9
Chenango	1.2	Nassau	5.8	Steuben	1.2
Clinton	2.6	* New York		Suffolk.....	5.8
Columbia	2.6	Niagara	7.7	Sullivan	17.0
Cortland	2.5	Oneida	2.1	Tioga.....	1.1
Delaware	1.2	Onondaga	3.8	Tompkins	1.2
Dutchess	6.4	Ontario	5.3	Ulster	17.0
Erie	7.7	Orange	17.0	Warren	2.6
Essex	2.6	Orleans	5.3	Washington.....	2.6
Franklin	2.5	Oswego	3.8	Wayne.....	5.3
Fulton	2.6	Otsego	1.2	Westchester.....	22.6
Genesee	5.9	Putnam	22.6	Wyoming.....	6.3
Greene	2.6	* Queens		Yates.....	5.9
Hamilton	2.6	Rensselaer	3.2		

* The following goal ranges are applicable to the indicated trades in the Counties of Bronx, Kings, New York, Queens and Richmond:

Electricians.....	9.0 to 10.2	Asbestos workers	22.8 to 28.0
Carpenters	27.6 to 32.0	Roofers	6.3 to 7.5
Steam fitters	12.2 to 13.5	Iron Workers (ornamental)	22.4 to 23.0
Metal lathers.....	24.6 to 25.6	Cement masons	23.0 to 27.0
Painters	26.0 to 28.6	Glaziers.....	16.0 to 20.0
Operating engineers	25.6 to 26.0	Plasterers.....	15.8 to 18.0
Plumbers	12.0 to 14.5	Teamsters.....	22.0 to 22.5
Iron Workers (structural)	25.9 to 32.0	Boilermakers.....	13.0 to 15.5
Elevator constructors	5.5 to 6.5	All others.....	16.4 to 17.5
Bricklayers.....	13.4 to 15.5		

GOAL FOR PARTICIPATION OF WOMEN

The last publication of a goal for the participation of women was April 7, 1978 (43 FR 14888, 14900). Pursuant to 41CFR 60-4.6, the 6.9% goal published on that date is hereby made the goal for all contracts and grant agreements, until further notice.

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STANDARDIZED CHANGED CONDITIONS CLAUSES

FHWA CHANGED CONDITION CLAUSES (23 CFR 635.109)

(1) Differing site conditions.

(i) During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract, are encountered at the site, the party discovering such conditions shall promptly notify the other party in writing of the specific differing conditions before the site is disturbed and before the affected work is performed.

(ii) Upon written notification, the engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding anticipated profits, will be made and the contract modified in writing accordingly. The engineer will notify the contractor of the determination whether or not an adjustment of the contract is warranted.

(iii) No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.

(iv) No contract adjustment will be allowed under this clause for any effects caused on unchanged work.

(2) Suspensions of work ordered by the engineer.

(i) If the performance of all or any portion of the work is suspended or delayed by the engineer in writing for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the contractor believes that additional compensation and/or contract time is due as a result of such suspension or delay, the contractor shall submit to the engineer in writing a request for adjustment within 7 calendar days of receipt of the notice to resume work. The request shall set forth the reasons and support for such adjustment.

(ii) Upon receipt, the engineer will evaluate the contractor's request. If the engineer agrees that the cost and/or time required for the performance of the contract has increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the engineer will make an adjustment (excluding profit) and modify the contract in writing accordingly. The contractor will be notified of the engineer's determination whether or not an adjustment of the contract is warranted.

(iii) No contract adjustment will be allowed unless the contractor has submitted the request for adjustment within the time prescribed.

(iv) No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided or excluded under any other term or condition of this contract.

(3) Significant changes in the character of work.

(i) The engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete

ATTACHMENT "G"

the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the contractor agrees to perform the work as altered.

(ii) If the alterations or changes in quantities significantly change the character of the work under the contract, whether such alterations or changes are in themselves significant changes to the character of the work or by affecting other work cause such other work to become significantly different in character, an adjustment, excluding anticipated profit, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the contractor in such amount as the engineer may determine to be fair and equitable.

(iii) If the alterations or changes in quantities do not significantly change the character of the work to be performed under the contract, the altered work will be paid for as provided elsewhere in the contract.

(iv) The term "significant change" shall be construed to apply only to the following circumstances:

(A) When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction; or

(B) When a major item of work, as defined elsewhere in the contract, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed.

MAJOR ITEM OF WORKS

The term "major item" of work shall mean any item for which the original bid price multiplied by the original contract quantity exceeds \$50,000 or 2% of the total contract bid price, whichever is less.

CIVIL RIGHTS MONITORING AND REPORTING

The approved civil rights reporting software is *Equitable Business Opportunity Solution* (EBO). The EBO software is a web-based system owned and maintained by the New York State Department of Transportation, and provided to the Contractor at no cost. The Contractor shall use the approved civil rights reporting software on all contracts. The Contractor shall submit complete, accurate, electronic data to the Department using the approved civil rights reporting software.

A. Civil Rights Officer(s). The Contractor shall designate a Corporate Civil Rights Officer, a Corporate DBE Representative, and a contract site Equal Employment Opportunity (EEO) Representative; and each Subcontractor shall designate a Corporate Civil Rights Officer, and a contract site Equal Employment Opportunity (EEO) Representative in the approved civil rights reporting software. The designated individuals shall have the responsibility to and shall be capable of effectively administering and promoting an active program of equal employment opportunity and who shall be assigned adequate authority and responsibility to do so. A single individual may fulfill multiple roles. The Contractor shall update the approved civil rights reporting software within 10 calendar days of any changes in these roles.

B. Workforce Participation Plan. At the pre-construction meeting, the Contractor shall submit a *Workforce Participation Plan* covering the Contractor's workforce and the workforce of its Subcontractors with subcontracts over \$10,000, together and coordinated with the contract progress schedule that addresses the Equal Employment Opportunity goals.

The Contractor shall not start work until the Department and the Contractor have agreed upon the *Workforce Participation Plan*. The Contractor shall submit a revised plan when a significant work force build-up or reduction will substantially affect goal attainment, or when a revised schedule is requested by the Department. Such revised *Workforce Participation Plan* must be agreed upon by the Department or the original will remain in effect.

C. Equal Employment Opportunity (EEO) Monitoring and Reporting. The Contractor's compliance with the EEO Requirements will be based on its Employment Utilization, affirmative action steps and its good faith efforts to meet the goals.

The Department, in evaluating the Contractor's good faith efforts to meet the EEO goal(s), will first analyze the Contractor's goal attainment on an individual contract. If the Contractor is not meeting the goal(s) for a single trade or contract, the Department will analyze, progressively, the Contractor's goal attainment on all contracts held by the Contractor. This method of analysis shall be applied primarily but not solely to contracts with small population numbers. Other factors to be considered include, but are not limited to; the location of the contracts, the relative proximity of the contracts to each other, and the nature of the work.

1. Employee Utilization Data. The Contractor shall submit employee utilization data for its workforce and for each Subcontractor on a monthly basis, not later than the 10th of the following month. Data shall be submitted showing the total hours for each payroll week separately through the end of the last full payroll week for that month. Payroll weeks are determined based on the firm's established payroll end date. Data shall include employee name, gender, ethnicity, and hours worked by trade(s) and classification. Employment utilization percentages are determined using data from the start of work up to and including the month being reported. For the purpose of determining utilization percentages, the

hours of female and minority employment are tabulated separately and attainment percentages are calculated separately.

2. Federal-Aid Highway Construction Contractors Annual EEO Report. The Contractor shall submit all required employee utilization data to produce a Form FHWA 1391 *Federal-Aid Highway Construction Contractors Annual EEO Report* to the Department annually not later than August 15th, covering the last payroll period worked in July, for all ongoing Federal-Aid contracts. The data shall indicate the number of minority men, minority women, non-minority men, and non-minority women employees currently engaged in each trade.

3. Subcontractor Sanctions. The Contractor shall carry out such sanctions and penalties for violation of Attachment F - Equal Employment Opportunity Requirements, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246.

4. Contractor Compliance with EEO Requirements. If the Contractor fails to meet the EEO goal(s) for minorities or women, or demonstrate good faith efforts, the Department may require training of minorities and women to satisfy the employment goals. If the Contractor fails to meet the EEO goal(s), to demonstrate good faith efforts, or is in noncompliance with the nondiscrimination clauses, the Department may determine that one of the following actions should be taken:

- a. ***entering into an agreement with the Contractor allowing the Contractor to cure the violation;***
- b. ***revoking the Contractor's pre-qualification to bid or make proposals for future contracts;***
- c. ***making a finding that the Contractor is in default of the Contract;***
- d. ***terminating the Contract;***
- e. ***declaring the Contractor to be in breach of Contract;***
- f. ***withholding payment or reimbursement;***
- g. ***determining not to renew the Contract;***
- h. ***assessing actual and consequential damages;***
- i. ***assessing liquidated damages or reducing fees, provided that liquidated damages may be based on amounts representing costs of delays in carrying out the purposes of the EEO Requirements, or in meeting the purposes of the Contract, the costs of meeting utilization goals through additional procurements, the administrative costs of investigation and enforcement, or other factors set forth in the Contract;***
- j. ***exercising rights under the Contract to procure goods, services or construction from another contractor and charge the cost of such contract to the Contractor that has been found to be in noncompliance;***
or
- k. ***taking any other appropriate remedy.***

The Contractor may also be referred to the U.S. Department of Labor, Office of Federal Contract Compliance Programs (OFCCP), which has the sole authority to determine compliance with Executive Order 11246 and its implementing regulations. OFCCP may declare the Contractor ineligible for further Federal-Aid contracts in

accordance with procedures authorized in Executive Order 11246, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246, or by rule, regulation, or order of the U.S. Secretary of Labor, or as otherwise provided by law.

D. DBE Monitoring and Reporting. The Contractor shall utilize the DBEs committed to at pre-award to provide the work, services, or products listed for each DBE. The Engineer will monitor the work to ensure that the identified DBEs perform the work as identified in the Contractor's commitments. Attainments will be measured based on payments made to DBEs.

If the Contractor has executed a subcontract with a DBE before the DBE is notified of removal of its eligibility by the certifying agency due solely to its having exceeded the size standard, the Contractor may continue to use the DBE on the contract in accordance with the executed subcontract, and attainments will be credited toward the contract goal. Any new or extra work performed by the ineligible DBE will not be credited toward the contract goal.

When a contract is awarded with DBE commitment(s) that is are than the contract goal(s), the Contractor shall continue good faith efforts. The Contractor shall periodically review items that are available for DBE participation, typically before the beginning of a new construction season and when significant new items of work are added to the contract, and conduct additional DBE solicitation.

1. Monitoring Commercially Useful Function (CUF) by DBEs.

The Contractor shall monitor the work of the DBEs to ensure each performs a CUF and can be properly counted towards the Contractor's DBE commitments.

The Department will review the work, services, or products provided by each DBE to verify the performance of a CUF in accordance with Attachment D, Subsection E. To determine whether a DBE has performed a CUF, the Department may also examine similar transactions, particularly those in which DBEs do not participate.

Upon request, each DBE Subcontractor shall provide confirmation to the Engineer that the workforce provided meets the requirements of Attachment D, Subsection E.2, *Work Force*. Each DBE Subcontractor shall provide a copy of invoices for all material incorporated into the work to the Engineer, in order to confirm that the DBE has met the requirements of Attachment D, Subsection E.4, *Materials*. Each DBE Subcontractor shall provide a copy of a rental agreement for all non-owned equipment used to perform the work to the Engineer, in order to confirm that the DBE has met the requirements of Attachment D, Subsection E.5, *Equipment*.

Upon request, the Contractor shall provide a copy of a purchase order(s) for all material provided by a DBE Manufacturer, Fabricator or Material Supplier to the Engineer. Upon request, the Contractor shall provide a copy of a rental agreement(s) with each DBE Equipment Rental firm to the Engineer. Upon request, the Contractor shall provide a copy of a purchase order(s) that details the work product(s) provided from each DBE Professional Service to the Engineer.

Should it be determined by the Department that a CUF was not performed by a DBE Subcontractor, only the portion of the work considered to be a CUF will be credited towards the goal, and the DBE Subcontractor and the Contractor may be investigated by

the Department or other agencies to determine why the CUF was not performed. Sanctions beyond no credit for the goal of non-compliance may be applied.

A DBE may present evidence to rebut a determination by the Department that the DBE is not performing a CUF. CUF determinations by the Department are subject to review by the New York State Department of Transportation (NYSDOT) and the Federal Highway Administration (FHWA) but the determination may not be administratively appealed to USDOT.

2. Report of Payments to Subcontractors and DBEs. The Contractor shall submit payment data for all Subcontractors and for all DBEs that are due a payment or have received a payment, within 14 days of receipt of payment from the Department, in order to measure DBE goal attainment and to monitor Contractor compliance with the requirements of Article 43 of the Standard Construction Contract. The Subcontractor or DBE shall acknowledge receipt of payment not later than 7 calendar days after receipt. The date of receipt is: (1) the date the payment was made by electronic funds transfer to an account identified and agreed to by both parties; (2) the date the envelope containing the payment was date stamped by the US Postal Service; or (3) the date the payment was physically provided to a previously authorized representative of the Subcontractor or DBE, either by the Contractor, or by a delivery service.

The Contractor shall enter the final payment to each Subcontractor or DBE and designate it as such when the final payment is made, or as a separate \$0.00 entry indicating final payment has been made, prior to contract final acceptance, excepting those payments due from work contained in a change order(s) that have not been approved. The Subcontractor or DBE shall acknowledge receipt of payment not later than 7 calendar days after receipt or notification by the Contractor that a separate \$0.00 entry indicating final payment was entered in the civil rights reporting software.

3. Revisions to DBE Utilization. The Contractor shall utilize the DBEs committed to perform the work or supply materials for which each is listed. The Contractor shall obtain Department approval for termination or substitution of a DBE on the Utilization Worksheet prior to implementing any proposed change through submission of a revised *DBE Utilization Worksheet* using the approved civil rights reporting software. Unless prior written consent for the revision is granted, the Contractor will not be entitled to any payment for work or material committed to a DBE unless it is performed or supplied by the approved DBE.

If the reduction of the DBE's work or the removal of the DBE, including for reasons of CUF violations, causes the DBE utilization to fall below the goal(s), the Contractor shall make good faith efforts in accordance with Attachment “D”, Subsection E to find another DBE to substitute for the original DBE to perform at least the remaining amount of work as the DBE that was terminated, to the extent needed to meet the contract goal(s). Upon Request, the Contractor shall provide documentation of good faith efforts within 7 days, which may be extended for an additional 7 days if necessary, at the request of the Contractor. The Department will provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.

A DBE may be substituted if the work committed to the DBE is deleted or reduced by the Department and enough work remains to substitute an equal commitment amount

to the affected DBE. If not enough work remains, the Department may relieve the Contractor from attaining that portion of the commitments.

The following modifications will be considered a substantial revision in DBE utilization:

1. Adding, removing or substituting a DBE;
2. Adding new item(s) of work to a DBE within a NAICS Code for which the DBE is not currently approved;
3. Significantly reducing the dollar value of or eliminating the DBE's item(s) of work. Significant reduction will be determined by comparison to the total DBE contract goal.

The following modifications will not be considered a substantial revision in DBE utilization:

1. Increasing the dollar value of an item(s) of work or adding new item(s) of work within the same NAICS Code to a DBE;
2. Substituting similar dollar values of work within NAICS Codes that the DBE is currently approved for;
3. Changes in utilization due to differences between estimated quantities and actual work performed.

a. DBE Program. In accordance with 49 CFR 26.53(f)(1), the Contractor shall not terminate a DBE listed on the approved DBE Utilization plan without the prior written consent of the Department. This includes, but is not limited to, instances in which a contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

The Department will consent only if the Contractor has good cause to terminate the DBE firm. Good cause includes, at a minimum, one the following circumstances:

- The listed DBE fails or refuses to execute a written contract;
- The listed DBE fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the Contractor;
- The listed DBE fails or refuses to meet the Contractor's reasonable, nondiscriminatory bond requirements.
- The listed DBE becomes bankrupt, insolvent, or exhibits credit unworthiness;
- The listed DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law;
- The Department has determined that the listed DBE is not a responsible contractor;
- The listed DBE voluntarily withdraws from the project and provides to the Department written notice of its withdrawal;
- The listed DBE is ineligible to receive DBE credit for the type of work required;
- A DBE owner dies or becomes disabled with the result that the listed DBE is unable to complete its work on the contract;
- Other documented good cause that you determine compels the termination of the DBE. Provided, that good cause does not exist if the Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the Contractor can

self-perform the work for which the DBE was engaged or so that the Contractor can substitute another DBE or non-DBE contractor after contract award.

Before submitting its request to terminate and/or substitute a DBE to the Department, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Engineer, of its intent to request to terminate and/or substitute, and the reason for the request.

The Contractor shall give the DBE five days to respond to the notice and advise the Department and the Contractor of the reasons, if any, why the DBE objects to the proposed termination of its subcontract and why the Department should not approve the Contractor's action. If required in a particular case as a matter of public necessity (e.g., safety), the Department may approve a response period shorter than five days.

3. Contractor's Compliance with DBE Program Requirements. If the Contractor fails to meet the DBE utilization commitments, to exert a good faith effort, or otherwise fails to comply with the DBE Program requirements, the Department will take appropriate actions. Such actions may include, but not be limited to: withholding contract payments, direction to the Contractor to attend a hearing before the Department's Contract Compliance Unit, or any other lawful procedure upon due notice in writing to the Contractor, including cancellation, termination, or suspension in whole or in part accordance with the contract.

If a Contractor, in order to meet DBE contract goals or other DBE program requirements, uses or attempts to use, on the basis of false, fraudulent or deceitful statements or representations or under circumstances indicating a serious lack of business integrity or honesty, a DBE that does not meet the eligibility criteria of 49 CFR 26 Subpart D, the U.S. Department of Transportation may initiate suspension or debarment proceedings against that firm under 2 CFR Parts 180 and 1200.

The Contractor may also be referred to the USDOT for possible suspension or debarment as provided in 49 CFR 29 and such other sanctions as may be imposed and remedies invoked as provided under the authority of 49 CFR 26, or by rule, regulation, or order of the Commissioner or as otherwise provided by law.

E. Apprenticeship Monitoring and Reporting. The Contractor shall report all apprenticeship participation as part of its Employee Utilization Data submitted monthly per Subsection C.1 of this Attachment “H”. The Contractor shall provide, with the final request for payment, a Certification of Compliance that:

- a. lists all New York State Department of Labor approved apprenticeship programs utilized in the execution of the Contract;
- b. certifies that all apprenticeship participation has been submitted as part of the monthly Employee Utilization Data;
- c. certifies that the requirements of the above listed apprenticeship programs have been met.

F. Compliance Reviews. The New York State Department of Transportation and the Department conduct annual civil rights contract compliance reviews of selected Federal-aid contracts in accordance with 23 CFR 230.409. A compliance review consists of a thorough review of all civil rights contract requirements, including Nondiscrimination in Labor/Employment, EEO, Training, and DBE requirements. A Contractor will typically not be

ATTACHMENT “H”

selected for more than one compliance review per year statewide. Based on contract monitoring and/or the results of compliance review(s), the New York State Department of Transportation and the Department may conduct a review of some or all ongoing contracts with a single Contractor, regardless of funding source.

(NO TEXT ON THIS PAGE)

**False Claims Certification
(31 USC §3729, NYS Finance Law Article 13)**

Under the Federal False Claims Act, 31 US Code §3729, any person or entity who knowingly presents, or causes to be presented to the Federal Government, a false or fraudulent claim for payment or approval is liable to the United State Government for a civil penalty of not less than \$5,000 and not more than \$10,000, plus three times the amount of damages the Government sustains.

Under the New York State False Claims Act, NYS Finance Law Article 13, any person or entity who knowingly presents or causes to be presented to the State of New York or Local Governments within the State of New York, a false or fraudulent claim for payment or approval is liable to the Government for a civil penalty of not less than \$6,000 and not more than \$12,000, plus three times the amount of damages the Government sustains.

“Knowingly” is defined as: (1) actual knowledge; (2) acting in deliberate ignorance of the truth or falsity of information; or (3) acting in reckless disregard of the truth or falsity of information; no proof of specific intent to defraud is required.

The Contractor to whom the above-identified contract is to be awarded does hereby certify to New York State Department of Transportation that it understands the prohibitions under the Federal and New York State False Claims Acts, and that it has not and will not submit or caused to be submitted any fraudulent claims in the submission of this bid or in connection with the above-identified contract. The Contractor further certifies that it understands retaliatory actions, against employees and officers who initiate a *Qui Tam* (public) action on behalf of the government or cooperate in the investigation of a false claim, are prohibited and are subject to an assessment of damages and penalties, under the provisions of the Federal and New York State False Claims Acts.

UNITED STATES DEPARTMENT OF TRANSPORTATION HOTLINE

The U.S. Department of Transportation (USDOT) Office of Inspector General (OIG) maintains a Hotline for receiving allegations of fraud, waste, abuse, or mismanagement in USDOT programs or operations. Persons with knowledge of bid collusion (i.e., contractors, suppliers, work persons, etc.), or other questionable contract related practices (inadequate materials, poor workmanship, theft of materials, etc.), are encouraged to report such activities by calling the Hotline at 1-800-424-9071 at hotline@oig.dot.gov, or in writing to the USDOT Inspector General, 1200 New Jersey Ave SE, West Bldg 7th Floor, Washington, DC 20590. Allegations may be reported 24 hours a day, seven days a week by DOT employees, contractors, or the general public.

NEW YORK STATE INSPECTOR GENERAL HOTLINE

The New York State Office of the Inspector General maintains a Hotline for receiving allegations of governmental misconduct. Reports of New York State governmental misconduct may be made in strict confidence to the Toll Free 24 hour Statewide HOTLINE at 1-800-DO RIGHT (1-800-367-4448), the online complaint form at www.ig.ny.gov or in writing to the New York State Office of the Inspector General; Empire State Plaza, Agency Building 2 - 16th Floor, Albany, New York 12223. Reports of New York State Governmental Misconduct may be made in strict confidence to the New York State Inspector General on the Toll Free Statewide HOTLINE or by writing to the Office of the State Inspector General. The Toll-Free Statewide HOTLINE telephone number is 1-800-367-4448 and calls will be answered between 9:00 A.M. and 5:00 P.M., Monday through Friday. The address of the Office of the Inspector General is P.O. Box 9, One Commerce Plaza, Albany, New York 12260.

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**PROVISIONS RELATING TO THE NEW YORK STATE LABOR LAW,
PREVAILING WAGES, AND THE USE OF CONVICT LABOR AND
MATERIALS ON FEDERAL & STATE CONTRACTS**

GENERAL PROVISIONS. All projects funded with Federal aid and let to contract in New York State shall conform to the provisions of the New York State Labor Law, except that in accordance with the authorization in Article 4, Section 85 of the New York State Highway Law, any provisions of the above referenced Labor Law which are in conflict with the following enumerated mandatory Federal Aid highway construction compliance requirements, as contained in Section 635 of the Code of Federal Regulations, Title 23-Highways, and other Federal legislation, rules, and regulations, as referenced below, are superseded:

CONVICT LABOR. No convict labor, unless performed by convicts who are on parole, supervised release, or probation, shall be employed in construction or used for maintenance or any other purposes at the site or within the limits of any Federal Aid highway construction project from the time of award of the contract or the start of work on force account until final acceptance of the work by the Owner.

SELECTION OF LABOR. No procedures or requirements shall be imposed by any state or municipal subdivision thereof which will operate to discriminate against the employment of labor from any other state, possession, or territory of the United States, in the construction of a Federal Aid project. The selection of labor to be employed by the Contractor on any Federal Aid project shall be of his/her own choosing.

WAGE RATES ON FEDERAL AID PROJECTS. Attention is directed to the statutory provisions governing the prevailing rates of wages for workmen, mechanics, and laborers who are employed on this project. Section 220 of the New York State Labor Law, as amended, requires that the wages paid for a legal day's work shall be not less than the rate of wages plus the supplements prevailing at the time the work is performed, the current schedules of which shall be included in the contract documents. Such schedules may be amended or supplemented from time to time, and such amendments or supplements shall be forwarded to the Contractor.

The Federal Aid Highway Act of 1968 provides for the payment of wages at rates not less than those determined in accordance with the Davis-Bacon Act (40 USC, Section 276-a), the schedule of which shall also be included in the contract documents.

On-site materials suppliers, in addition to all subcontractors, are subject to the provisions of the Davis-Bacon Act. This will not necessarily be construed as causing the on-site material suppliers to be classified as subcontractors as part of the 50% limitation on the subcontracting of this project.

In case of a variance between (1) the schedules of prevailing rates of wages and supplements as determined under Section 220 of the New York State Labor Law, and (2) the schedule of rates of wages as determined pursuant to the Davis-Bacon Act, the Contractor shall accept and use the schedule or schedules that establish the higher rate of wages as the minimum for the workmen who are employed on the project.

CONSTRUCTION BY FEDERAL AGENCIES. When construction on Federal Aid highways is being performed by any Federal agency under its procedures and by Federal contract, the labor standards relating to direct federal contracts shall be applicable.

NON-DISCRIMINATION. Employment shall be provided without regard to race, color, religion, sex, or national origin.

CONVICT-PRODUCED MATERIALS. The use of convict-produced materials on any Federal or Federally-assisted contract must comply with the following requirements:

a. Materials produced by convict labor may only be incorporated in a Federal Aid highway construction project if such materials have been:

1. Produced by convicts who are on parole, supervised release, or probation from a prison; or

2. Produced in a qualified prison facility and the cumulative annual production amount of such materials for use in Federal Aid highway construction does not exceed the amount of such materials produced in such facility for use in Federal Aid highway construction during the 12month period ending July 1, 1987.

b. "Qualified prison facility" means any prison facility in which convicts, during the 12-month period ending July 1, 1997, produced materials for use in Federal Aid highway construction projects.

c. Standard State and Federal Aid contract procedures may be used to assure compliance with the requirements of this paragraph.

FEDERAL WAGE RATES

The following pages contain the Federal Wage Rates in effect at the time of bidding. Current rates can be found at: www.wdol.gov/wdol/scafiles/davisbacon/ny3.dvb

"General Decision Number: NY20220003 02/25/2022

Superseded General Decision Number: NY20210003

State: New York

Construction Types: Building, Heavy, Highway and Residential

Counties: Bronx, Kings, New York, Queens and Richmond

Counties in New York.

BUILDING & RESIDENTIAL CONSTRUCTION PROJECTS (includes single family homes and apartments up to and including 4 stories),
HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	02/25/2022

ASBE0012-001 06/01/2021

Rates	Fringes
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Asbestos Workers/Insulator

Includes application of
all insulating materials,
protective coverings,
coatings and finishes to
all types of mechanical
systems.....

\$ 69.01 35.16

HAZARDOUS MATERIAL HANDLER.....\$ 39.00 12.75

BOIL0005-001 01/01/2021

Rates	Fringes
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BOILERMAKER.....\$ 63.38 33%+47.22+a

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Thanksgiving Day, Memorial
Day, Independence Day, Labor Day and Good Friday, Friday
after Thanksgiving, Christmas Eve Day and New Year's Eve

BRNY0001-001 07/01/2020

Rates	Fringes
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BRICKLAYER.....\$ 62.54 29.40

MASON - STONE.....\$ 67.88 36.91

BRNY0001-002 07/01/2020

Rates	Fringes
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Pointer, cleaner and caulker.....\$ 55.97 29.64

BRNY0004-001 07/05/2021

Rates	Fringes
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MARBLE MASON.....\$ 61.73 37.91

BRNY0007-001 07/01/2021

Rates	Fringes
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TERRAZZO FINISHER.....\$ 55.21 36.97

TERRAZZO WORKER/SETTER.....\$ 58.46 38.09

* BRNY0007-002 12/06/2021

Rates	Fringes
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TILE FINISHER.....\$ 47.56 32.71

BRNY0020-001 01/04/2021

	Rates	Fringes
MARBLE FINISHER.....	\$ 48.27	35.40

BRNY0024-001 01/01/2021		
	Rates	Fringes
BRICKLAYER		
MARBLE POLISHERS.....	\$ 45.37	28.80

* BRNY0052-001 12/06/2021		
	Rates	Fringes
Tile Layer.....	\$ 61.84	36.04

CARP0001-003 07/01/2021		
	Rates	Fringes
CARPENTER (HEAVY & HIGHWAY).....	\$ 56.93	52.79

CARP0001-009 07/01/2021		
	Rates	Fringes
CARPENTER (BUILDING & RESIDENTIAL)		
Carpenters.....	\$ 54.75	46.43
Soft Floor Layers.....	\$ 54.75	46.43

CARP0740-001 07/01/2021		
	Rates	Fringes
MILLWRIGHT.....	\$ 57.00	54.06

CARP1556-006 07/01/2021		
	Rates	Fringes
Dock Builder & Piledrivermen.....	\$ 56.93	52.79

CARP1556-007 07/01/2021		
	Rates	Fringes
Diver Tender.....	\$ 51.34	52.79
Diver.....	\$ 71.80	52.79

CARP1556-011 07/01/2021		
	Rates	Fringes
Carpenters:		
TIMBERMEN.....	\$ 52.05	52.24

ELEC0003-001 04/11/2019		
	Rates	Fringes
ELECTRICIAN		
Electricians.....	\$ 56.00	76.725%+16.25
Jobbing, and maintenance		

and repair work.....\$ 28.50 51.243%+7.50+a

PAID HOLIDAYS:

a. New Years Day, Martin Luther King, Jr.'s Birthday,
Washington's Birthday, Memorial Day, Independence Day,
Labor Day, Columbus Day, Election Day, Thanksgiving Day,
the day after Thanksgiving Day, and Christmas Day

ELEC1049-001 04/04/2021

QUEENS COUNTY

	Rates	Fringes
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Line Construction (Substation
and Switching structures pipe
type cable installation and
maintenance jobs or projects;
Railroad electrical
distribution/transmission
systems maintenance (when
work is not performed by
railroad employees) Overhead
and Underground
transmission/distribution
line work. Fiber optic,
telephone cable and equipment)

Groundman.....	\$ 36.73	25.66
Heavy Equipment Operator....	\$ 48.97	29.55
Lineman and Cable Splicer...	\$ 61.21	33.43
Tree Trimmer.....	\$ 30.09	14.12

ELEV0001-002 03/17/2021

	Rates	Fringes
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ELEVATOR MECHANIC

Elevator Constructor.....	\$ 72.29	42.912+a+b
Modernization and Repair....	\$ 50.49	40.399+a+b

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Good Friday, President's
Day, Memorial Day, Independence Day, Labor Day, Columbus
Day, Veteran's Day, Thanksgiving Day, Friday after
Thanksgiving, and Christmas Day.

b. PAID VACATION: An employee who has worked less than 5
years shall receive vacation pay credit on the basis of 4%
of his hourly rate for all hours worked; an employee who
has worked 5 to 15 years shall receive vacation pay credit
on the basis of 6% of his hourly rate for all hours worked;
an employee who has worked 15 or more years shall receive
vacation pay credit on the basis of 8% of his hourly rate
for all hours worked.

ENGI0014-001 07/01/2021

	Rates	Fringes
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POWER EQUIPMENT OPERATOR
(HEAVY & HIGHWAY)

GROUP 1.....	\$ 107.75	34.60
GROUP 2.....	\$ 89.05	34.60
GROUP 3.....	\$ 91.89	34.60
GROUP 4.....	\$ 89.70	34.60
GROUP 5.....	\$ 87.94	34.60
GROUP 6.....	\$ 84.48	34.60
GROUP 7.....	\$ 86.05	34.60
GROUP 8.....	\$ 83.59	34.60
GROUP 9.....	\$ 81.85	34.60
GROUP 10.....	\$ 78.28	34.60
GROUP 11.....	\$ 73.21	34.60
GROUP 12.....	\$ 74.81	34.60
GROUP 13.....	\$ 75.36	34.60
GROUP 14.....	\$ 57.06	34.60
GROUP 15.....	\$ 53.11	34.60
POWER EQUIPMENT OPERATOR (PAVEMENT-HEAVY & HIGHWAY)		
Asphalt Plants.....	\$ 69.04	34.60
Asphalt roller.....	\$ 81.47	34.60
Asphalt spreader.....	\$ 83.59	34.60
POWER EQUIPMENT OPERATOR (STEEL ERECTION)		
Compressors, Welding Machines.....	\$ 53.07	34.60
Cranes, Hydraulic Cranes, 2 drum derricks, Forklifts, Boom Trucks.....	\$ 88.77	34.60
Three drum derricks.....	\$ 92.36	34.60
POWER EQUIPMENT OPERATOR (UTILITY)		
Horizontal Boring Rig.....	\$ 79.56	34.60
Off shift compressors.....	\$ 66.26	34.60
Utility Compressors.....	\$ 52.77	34.60

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Tower crane

GROUP 2: Rubber Tire Backhoes over 37,000 lbs, Track Backhoes, power shovel, Hydraulic clam shells, moles and machines of a similar type

GROUP 3: Mine hoists and crane, etc. used as mine hoists

GROUP 4: Gradalls, keystones, cranes (with digging buckets), bridge cranes, trenching machines, vermeer cutter and machines of a similar nature

GROUP 5: Piledrivers, derrick boats, tunnel shovels

GROUP 6: All drills, and machines of a similar nature

GROUP 7: Back filling machines, cranes, mucking machines, dual drum pavers

GROUP 8: Mixers (concrete w/loading attachments), concrete pavers, cableways, land derricks, power house (low pressure units), concrete pumps

GROUP 9: Concrete plants, well drilling machines, stone crushers double drum hoist, power house (other than above)

GROUP 10: Concrete mixers

GROUP 11: Elevators

GROUP 12: Concrete breaking machine, Hoists (single drum), load masters, locomotive and dinkies over 10 tons

GROUP 13: Vibratory console

GROUP 14: Compressors (portable 3 or more in battery), tugger machine (caissons), well point pumps, chum drill

GROUP 15: Boilers, (high pressure, compressors (portable, single, or 2 in battery, not over 100' apart), pumps (river cofferdam and welding machines (except where arc is operated by members of local 15) push button machines, all engines irrespective of power (power pac) used to drive auxilliary equipment, air, hydraulic etc.

PREMIUMS ON CRANES (Crawler or Truck):

100' to 149' boom - add .50

150' to 249' boom - add .75

250' to 349' boom - add 1.00

350' to 450' boom - add 1.50

Premiums for Cranes on Steel Erection:

100' to 149' boom - add 1.75

150' to 249' boom - add 2.00

250' to 349' boom - add 2.25

350' to 450' boom - add 2.75

Tower crane - add 2.00

FOOTNOTE:

a. Paid Holidays: New Year's Day; Lincoln's Birthday; Washington's Birthday; Memorial Day; Independence Day; Labor Day; Veterans Day; Columbus Day; Election Day; Thanksgiving Day; and Christmas Day; provided the employee works one day the payroll week in which the holiday occurs.

ENGI0014-002 07/01/2021

	Rates	Fringes
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Power Equipment Operator

BUILDING & RESIDENTIAL

GROUP 1.....	\$ 84.16	34.60
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GROUP 2.....	\$ 89.10	34.60
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GROUP 3.....	\$ 77.98	34.60
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GROUP 4.....	\$ 70.94	34.60
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GROUP 5.....	\$ 53.12	34.60
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POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Double drum

GROUP 2: Stone derrick, cranes, hydraulic cranes, boom trucks

GROUP 3: 4 pole Hoist, Single Drum Hoists

GROUP 4: Fork lift, house cars, plaster (platform machine), plaster bucket, concrete pump and all other equipment used for hoisting material

GROUP 5: Compressors, welding machines (cutting concrete work), paint spraying, sand blasting, pumps (with the exclusion of concrete pumps), house car (settlement basis

only), all engines irrespective of power (power pac) used to drive auxiliary equipment, air, hydraulic, etc., boilers

Premiums for Cranes:

100'-149' boom - add 1.75
 150'-249' boom - add 2.00
 250'-349' boom - add 2.25
 350'-450' boom - add 2.75
 Tower cranes add 2.00

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Lincoln's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Columbus Day, Election Day, Thanksgiving Day, and Christmas Day, provided the employee works one day in the payroll week in which the holiday occurs

 ENGI0015-001 07/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
HEAVY AND HIGHWAY		
GROUP 1.....	\$ 74.65	38.00
GROUP 2.....	\$ 72.40	38.00
GROUP 3.....	\$ 68.62	38.00
GROUP 4.....	\$ 64.82	38.00
GROUP 5.....	\$ 44.45	38.00

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cherrypickers 20 tons and over and loaders (rubber-tired and/or tractor type with a manufacturer's rated capacity of six cubic yards and over

GROUP 2: Rubber Tire Backhoes up to and including 37,000 lbs, Basin Machines, Groover, Mechanical Sweepers, Bobcat, Boom Truck, Barrier Transport (Barrier Mover) and machines of a similar nature, Boat Captains, Boat Operators, operation of Churn Drills and machines of a similar nature, Stetco Silent Hoist and machines of a similar nature, Vac-alls, Meyers Machines, John Beam and machines of a similar nature, Ross Carriers and Travel Lifts and machines of a similar nature, Bulldozers, Scrapers, and Turn-a Pulls, Tugger Hoist (used exclusively for handling excavated material), Tractors with attachments, Hyster and Roustabout Cranes, Cherrypickers, Austin Western, Grove and machines of a similar nature, Scoopmobiles, Monorails, Conveyors, Trenchers, Loaders- Rubber-tired and Tractor, Barber Greene, Eimco Loaders and Eimco Backhoes, Mighty Midget and similar breakers and tampers, Curb and Gutter Pavers and Motor Patrol, Motor Graders and all machines of a similar nature, Locomotives ten (10) tons or under, Mini-Max, Break-Tech and machines of a similar nature, Milling Machines, robotic and demolition machines and machines of a similar nature including Bobcat, Pile Rig Rubber-tired Excavator (37,000 lbs. and under), 2 man auger

GROUP 3: Minor Equipment such as Tractors, Post Hole Diggers and Drivers, Ditch Witch (Walk Behind), Road Finishing Machines, Rollers (five (5) tons and under), Tugger Hoists, Dual Purpose Trucks, Fork Lifts and Dempsey Dumpsters

GROUP 4: Oilers for the following equipment: (all gasoline, electric, diesel, or air operated) gradalls and concrete

pumps or similarly equipment manned by two-men

GROUP 5: Oilers for the following equipment: (all gasoline, electric, diesel, or air operated) shovels, cranes (draglines), backhoes, pavers, trenching machines, gunite machines, compressors (3 or more in battery)

Premiums for Cranes:

100'-149' boom - add 1.75
 150'-249' boom - add 2.00
 250'-349' boom - add 2.25
 350'-450' boom - add 2.75
 Tower cranes add 2.00

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Lincoln's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Columbus Day, Election Day, Thanksgiving Day, and Christmas Day, provided the employee works one day in the payroll week in which the holiday occurs

 ENGI0015-002 07/01/2016

	Rates	Fringes
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POWER EQUIPMENT OPERATOR

BUILDING

GROUP 1.....	\$ 65.94	32.95
GROUP 2.....	\$ 63.98	32.95
GROUP 3.....	\$ 57.42	32.95

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Oiler

GROUP 2: Oilers on Crawler Cranes, Backhoes, Trenching machines, Gunite machines, Compressors (3 or more in Battery)

GROUP 3: Gradalls: Concrete Pumps, Power Houses - All equipment in same is manned by two (2) men only, Driving Truck Cranes

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Lincoln's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Columbus Day, Election Day, Thanksgiving Day, and Christmas Day, provided the employee works one day in the payroll week in which the holiday occurs

 IRON0040-002 07/01/2021

BRONX, NEW YORK, RICHMOND

	Rates	Fringes
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IRONWORKER, STRUCTURAL.....	\$ 54.20	82.24
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 IRON0046-003 07/01/2021

	Rates	Fringes
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IRONWORKER

METALLIC LATHERS AND

REINFORCING IRONWORKERS.....	\$ 56.90	26.30
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 IRON0197-001 07/01/2021

	Rates	Fringes
IRONWORKER		
STONE DERRICKMAN.....	\$ 55.63	55.10

IRON0361-002 07/01/2021		

KINGS, QUEENS

	Rates	Fringes
Ironworkers:		
(STRUCTURAL).....	\$ 54.20	82.24

IRON0580-001 07/01/2021		

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 46.15	59.79

LAB00006-001 07/01/2016		

	Rates	Fringes
LABORER (Cement and Concrete Workers).....	\$ 42.48	17.35

LAB00029-001 07/01/2017		

	Rates	Fringes
Laborers:		
Heavy		
Blasters (hydraulic trac drill).....	\$ 47.15	35.49
Blasters.....	\$ 46.27	35.49
Hydraulic Trac Drill.....	\$ 41.29	35.49
Jackhammers, Chippers, Spaders, Concrete Breakers, All Other Pneumatic Tools, Walk Behind Self-Propelled Hydraulic Asphalt and Concrete Breaker.....	\$ 39.34	35.49
Powder Carriers.....	\$ 35.17	35.49

LAB00078-001 09/01/2021		

	Rates	Fringes
LABORERS		
BUILDING CONSTRUCTION ASBESTOS (Removal, Abatement, Encapsulation or Decontamination of asbestos); LEAD; & HAZARDOUS WASTE LABORERS (Hazardous Waste, Hazardous Materials, Biochemical and Mold Remediation, HVAC, Duct Cleaning, Re-spray Fireproofing, etc).....	\$ 38.05	19.35

LAB00079-001 07/01/2018

	Rates	Fringes
LABORER (Building Construction)		
Demolition Laborers (Interior)		
Tier A.....	\$ 37.44	23.60
Tier B.....	\$ 26.63	17.57
Mason Tender/General Laborer.....	\$ 40.65	28.85

CLASSIFICATIONS

TIER A: Responsible for the removal of all interior petitions and structural petitions that can consist of sheet rock, block or masonry. Also, all structural slab openings for ducts, mechanical, shafts, elevators, slab openings and exterior walls where the building is not being completely demolished.

TIER B: Responsible for shoveling of debris into containers, pushing containers from the inside to the outside of the building.

LAB00147-001 07/01/2016

	Rates	Fringes
LABORERS (FREE AIR & TUNNEL).....	\$ 72.67	47.72

Maintenance Men, Inside Muck Lock Tenders, Pump Men, Electricians, Cement Finishers, Caulkers, Hydraulic Men, Shield Men, Monorail Operators, Motor Men, Conveyor Men, Powder Carriers, Pan Men, Riggers, Chuck Tenders, Track Men Painters, Nippers, Brakemen, Cable Men, Hose Men, Grout Men, Gravel Men, Form Workers, Concrete Workers, Tunnel Laborers, Mole Nipper (one (1) Mole Sipper per Working Shaft per Shift for up to and including Two (2) Moles

LAB00731-001 07/01/2021

	Rates	Fringes
LABORER		
Building, Heavy and Residential Construction		
LABORER: (Asbestos, Lead, Hazardous Waste Removal (including		
soil)/CEMENT/CONCRETE.....	\$ 43.50	48.48
UTILITY LABORER.....	\$ 43.35	48.48

Paid Holidays: Labor Day and Thanksgiving Day

LAB01010-001 07/01/2019

	Rates	Fringes
Laborers:		
HIGHWAY CONSTRUCTION		
Fence Installer & Repairer..	\$ 42.98	43.91

FORMSETTERS.....	\$ 46.85	43.91
LABORERS.....	\$ 42.98	43.91
Landscape Planting & Maintenance.....	\$ 42.98	43.91
Maintenance Safety Surface.	\$ 42.98	43.91
Slurry/Sealcoater/Play Equipment Installer.....	\$ 42.98	43.91
Small Equipment Operator (Not Operating Engineer)...	\$ 42.98	43.91
Small Power Tools Operator.	\$ 42.98	43.91

FOOTNOTES:

a. PAID HOLIDAYS: Memorial Day, Fourth of July, Labor Day, Columbus Day, Election Day and Thanksgiving Day, provided the employee has worked one (1) day in the calendar week in which the said holiday occurs.

LAB01010-002 07/01/2019

	Rates	Fringes
Laborers-Asphalt Construction:		
Micro Paver.....	\$ 47.45	43.91
Raker.....	\$ 46.85	43.91
Screedperson.....	\$ 47.45	43.91
Shoveler (Production Paving Only).....	\$ 42.98	43.91
Small Equipment Operator (Asphalt).....	\$ 42.98	43.91

PAIN0009-001 05/01/2020

	Rates	Fringes
GLAZIER.....	\$ 46.55	44.77
PAINTER		
Painters, Drywall Finishers, Lead Abatement Worker.....	\$ 45.70	27.67
Spray, Scaffold and Sandblasting.....	\$ 48.70	27.67

PAIN0806-001 10/01/2021

	Rates	Fringes
Painters:		
Structural Steel and Bridge.	\$ 53.00	51.23

PAIN1974-001 06/28/2021

	Rates	Fringes
Painters:		
Drywall Tapers/Pointers.....	\$ 48.47	29.06

PLAS0262-001 08/01/2019

	Rates	Fringes
PLASTERER.....	\$ 45.73	30.37

PLAS0262-002 08/01/2019

KINGS AND QUEENS COUNTIES

	Rates	Fringes
PLASTERER.....	\$ 45.73	30.37

PLAS0780-001 07/01/2018		

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 51.97	33.56

* PLUM0001-001 01/01/2022		

	Rates	Fringes
PLUMBER MECHANICAL EQUIPMENT AND SERVICE Any repair and/or replacement of the present plumbing system that does not change the existing roughing.....	\$ 46.60	19.96
PLUMBERS:.....	\$ 71.25	39.95

PLUM0638-001 07/01/2020		

	Rates	Fringes
PLUMBER SERVICE FITTERS.....	\$ 41.75	14.00
SPRINKLER FITTERS, STEAMFITTERS.....	\$ 59.05	58.34

Service Fitter work shall consist of all repair, service and maintenance work on domestic, commercial and industrial refrigeration, air conditioning and air cooling, stoker and oil burner apparatus and heating apparatus etc., including but not exclusively the charging, evacuation, leak testing and assembling for all machines for domestic, commercial and industrial refrigeration, air conditioning and heating apparatus. Also, work shall include adjusting, including capacity adjustments, checking and repairing or replacement of all controls and start up of all machines and repairing all defects that may develop on any system for domestic, commercial and industrial refrigeration and all air conditioning, air cooling, stoker and oil burner apparatus and heating apparatus regardless of size or type.

ROOF0008-003 07/01/2021		
	Rates	Fringes
ROOFER.....	\$ 45.25	35.62

SHEE0028-002 07/29/2021		

	Rates	Fringes
SHEET METAL WORKER BUILDING CONSTRUCTION.....	\$ 51.35	53.51
RESIDENTIAL CONSTRUCTION....	\$ 23.84	8.40

 TEAM0282-001 07/01/2020

	Rates	Fringes
TRUCK DRIVER		
Asphalt.....	\$ 42.68	46.9025+a
Euclids & Turnapulls.....	\$ 45.62	50.5625+a
High Rise.....	\$ 53.79	49.2025+a

FOOTNOTES:

PAID HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Election Day, Veterans' Day (Armistice Day), Thanksgiving Day, Day after Thanksgiving and Christmas Day. Employees working two (2) days in the calendar week in which a holiday falls are to be paid for such holiday, provided that they shape each remaining workday during such calendar week.

 WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

HAZ - PAGES

**SPECIFICATIONS FOR HANDLING,
TRANSPORTATION AND DISPOSAL
OF NONHAZARDOUS AND POTENTIALLY
HAZARDOUS CONTAMINATED MATERIALS**

NOTICE

THE PAGES CONTAINED IN THIS SECTION ARE ISSUED FOR THE PURPOSE OF SPECIFYING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND HEREBY MADE PART OF SAID CONTRACT DOCUMENTS.

November 12, 2021

PROJECT ID: HWK797W

RECONSTRUCTION OF SCHENCK AVENUE

**BOROUGH OF BROOKLYN
CITY OF NEW YORK**

**SPECIFICATIONS FOR
HANDLING, TRANSPORTATION, AND DISPOSAL
OF POTENTIAL AND IDENTIFIED
CONTAMINATED AND HAZARDOUS MATERIALS**

This addendum is issued for the purpose of amending the requirements of the Contract Documents and hereby made part of said Contract Documents to the same extent as if it was originally included herein.

**SPECIFICATIONS FOR
HANDLING, TRANSPORTATION, AND DISPOSAL
OF POTENTIAL AND IDENTIFIED
CONTAMINATED AND HAZARDOUS MATERIALS**

RECONSTRUCTION OF SCHENCK AVENUE

**BOROUGH OF BROOKLYN
CITY OF NEW YORK**

Project ID: HWK797W

Prepared By:



30-30 Thomson Avenue
Long Island City, New York 11101

November 12, 2021

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ITEM 8.01 C1 HANDLING, TRANSPORTING, AND DISPOSAL OF NON-HAZARDOUS, CONTAMINATED SOIL

8.01 C1.1 WORK TO INCLUDE

A. General

This work will consist of the handling, transportation, and disposal of contaminated soils. The materials covered by this specification are soils that are contaminated with petroleum or chemical products but cannot be classified as hazardous waste. For the purpose of this specification, soil will be defined as any material excavated below the pavement (concrete and/or asphalt) and pavement base (concrete and/or asphalt).

Soil to be excavated can be classified as non-contaminated, contaminated, or hazardous soil. Non-contaminated soils are defined as soils not exhibiting any of the following characteristics.

- Exceedances of New York State Department of Environmental Conservation (NYSDEC) Part 375-6 Restricted Commercial Soil Cleanup Objectives (SCOs) for street work, Restricted Residential SCOs for work areas in parkland, or Residential SCOs for housing projects.
- Elevated Photo-Ionization Detector (PID) readings, subsequently confirmed by laboratory analysis and showed exceedances of applicable SCOs.
- Visual evidence of contamination, such as the presence of staining, discoloration.
- Petroleum and/or chemical odors, subsequently confirmed by laboratory analysis and showed exceedances of applicable SCOs.
- Physical evidence of coal ash, municipal solid waste, construction and demolition debris, or dredged spoils.

Contaminated soils are defined as soils exhibiting one or more of the above characteristics. Contaminated soils must be handled, transported, and disposed of in accordance with the specifications for Item 8.01 C1 – Handling, Transporting, and Disposal of Non-Hazardous Contaminated Soil.

Hazardous soils are defined as soils showing exceedances of Toxicity Characteristic Leaching Procedure (TCLP) Regulatory Levels for Hazardous Waste published in Resource Conservation and Recovery Act (RCRA), 6 New York Codes, Rules, and Regulations (NYCRR) Part 371, or 40 Code of Federal Regulations (CFR) Section 261. Hazardous soils must be handled, transported, and disposed of in accordance with the specifications of this section.

This entire specification 8.01 covers the handling, transportation, and disposal of contaminated soils and hazardous soils only. Non-contaminated soil can be reused at the project site, provided it meets other contract requirements. Excess non-contaminated soil becomes the property of the Contractor.

The Contractor must ensure that all operations associated with the handling, sampling, loading, transportation, and disposal of contaminated soils are in compliance with all applicable Federal, State, and City statutes and regulations.

The Contractor must supply all equipment, material and labor required to conduct the specified work of this Item. The Contractor must document the excavation, handling, transportation and disposal of contaminated soils.

B. Request for Approval of Subcontractors

A subcontractor/subconsultant, such as the independent Environmental Consultant and the waste hauler, is not permitted to start work until approved by the Engineer. If the Contractor performs work using a subcontractor/subconsultant prior to approval, the Contractor will not be paid for the work performed by that subcontractor/subconsultant and the Contractor may be subject to sanctions including, but not limited to, initiation of default proceedings.

The Contractor must submit a completed original Request for Approval of Subcontractors (RFAS) form and all required documents, such as legal identity, project reference list, Corporate Health and Safety Plan (HASP), waste transporter permits, Occupational Safety and Health Administration (OSHA) 10 certification, Hazardous Waste and Emergency Response (HAZWOPER) certification, etc., to the Engineer at least 30 days prior to the scheduled subcontract work start date. The Engineer must then submit the original RFAS to DDC Safety and Site Support, Office of Environmental and Geotechnical Services (OEGS) for review and approval. If the RFAS is denied by OEGS, OEGS will issue the final denial and return the original RFAS to the Engineer. If the RFAS is approved by OEGS, OEGS will forward the original RFAS package and an approval memo to the DDC ACCO for further review and approval. The ACCO's Vendor Integrity Unit and Office of Contract Opportunity (OCO) will review the subcontractor/subconsultant's overall business integrity and compliance with Vendor Exchange System (VENDEX), Executive Order 50, Local Law 1, and Minority- and Women-Owned Business Enterprise/ Disadvantaged Business Enterprise (MWBE/DBE) participation as per the contract. ACCO will issue the final Approval or Denial. The original RFAS will be returned to the Engineer, who will subsequently notify and return the original RFAS to the Contractor.

C. Independent Environmental Consultant

The Contractor must retain an independent Environmental Consultant to obtain all permits, prepare the plans required in the specification 8.01, and perform all field screening, sampling, air monitoring, and other health and safety services. The independent Environmental Consultant must be approved under the RFAS process and must demonstrate the minimum requirements as set forth below:

1. The independent Environmental Consultant project supervisor on site and other designated key personnel must have a minimum of three (3) years of experience in the environmental field dealing with issues associated with contaminated soils. Such experience must include oversight on environmental, specifically volatile organic compounds and dust monitoring services as a routine part of its daily operations.
2. The independent Environmental Consultant must be experienced in work of similar nature, size, and complexity and must have previous experience in working with DDC.
3. The independent Environmental Consultant must furnish a project listing identifying the location, nature of services provided, owner, owner's contact, contact's working telephone number, project duration and value for at least five (5) projects within the last 3 years.

D. Sampling and Analysis

Prior to the performance of soil sampling, the Contractor will submit a Field Sampling Plan (FSP). Soil sampling must not be conducted until OEGS has approved the FSP. The Contractor must conduct sampling and analysis of the impacted soils as specified under Item 8.01 C2 – Sampling And Testing Of Contaminated/Potentially Hazardous Soil For Disposal Purposes. The laboratory results must be forwarded to OEGS for review to determine if the soils would be handled and disposed of as contaminated soils or hazardous soils.

E. Material Handling Plan

At least 45 days prior to the commencement of work, the Contractor must submit to the OEGS for review a Material Handling Plan (MHP). The MHP must be approved by the OEGS prior to the Contractor beginning any soil excavation work. The MHP must, at a minimum, consist of:

1. The Contractor's procedures for identifying contaminated soils during excavation, including the specific model and manufacturer of intended organic vapor monitoring equipment and calibration procedures to be used. It should also include the training and experience of the personnel who will operate the equipment.
2. The Contractor's procedures for safely handling contaminated soils. The procedures must include personnel safety and health as well as environmental protection considerations.
3. For the proposed laboratory for analysis of representative soil samples, provide the following: (a) name, (b) address, (c) telephone number, and (d) New York State Department of Health's (NYSDOH) Environmental Laboratories Accreditation Program (ELAP) status.
4. Identification of the Contractor's proposed waste transporter(s) (hauler). This information must include:
 1. Name and Waste Transporter Permit Number
 2. Address
 3. Name of responsible contact for the waste transporter
 4. Telephone number for the contact
 5. All necessary permit authorizations for each type of waste transported
 6. Previous experience in performing the type of work specified herein
5. The name and location of the facility where an off-site scale is located. The Contractor must outline the procedures on controlling trucks leaving the work site and en-route to the off-site scale.
6. All staging/stockpiling areas (if stockpiling areas are intended and available), or alternate procedures that will be used. Alternate procedures may include, but are not limited to, agreements from the intended disposal facilities to accept boring data and/or analytical data previously obtained during the site characterization so that materials may be directly loaded into vehicles for shipment to the disposal facility.
7. A backup facility must be provided, should the staging/stockpile areas become unavailable, insufficient in area or presented by some other unforeseen difficulty.
8. Identification of the Contractor's two proposed Treatment Storage or Disposal (TSD) facilities for contaminated soils (primary and back-up) for final disposal of the soils. Both primary and backup TSD facilities must be currently state-licensed disposal facilities approved to receive contaminated soil. The information required for each facility must include:
 - a. General Information
 1. Facility name and the State identification number
 2. Facility location

3. Name of responsible contact for the facility
4. Telephone number for contact
5. Signed letter of agreement to accept waste as specified in this contract. The letter must indicate agreement to handle and accept the specified estimated quantities and types of material during the time period specified in the project schedule and any time extension as deemed necessary.
6. Unit of measure utilized at disposal facility for costing purposes
- b. A listing of all permits, licenses, letters of approval, and other authorizations to operate, which are currently held and valid for the proposed facility.
- c. A listing of all permits, licenses, letters of approval, and other authorizations to operate which have been applied for by the proposed facility but not yet granted or issued.
- d. The Contractor must specify and describe the disposal/containment unit(s) that the proposed facility will use to manage the waste. The Contractor must identify the capacity available in the units and the capacity reserved for the subject waste.
- e. The Contractor must provide the date of the proposed facility's last compliance inspection.
- f. A list of all active (unresolved) compliance orders (or agreements), enforcement notices, or notices of violations issued to the proposed facility must be provided. The source and nature of the cause of violation must be stated, if known.
9. Description of all sampling and field/laboratory analyses that will be needed to obtain disposal facility approval.

8.01 C1.2 MATERIALS

- A. The Contractor must provide containers as specified in the United State Department of Transportation (USDOT) regulations.
- B. The Contractor must provide polyethylene sheeting, which is to be placed under (20 mil. thickness minimum) and over (10 mil. thickness minimum) soil piles.
- C. The Contractor must assure that the waste transporter's appropriate choice of vehicles and operating practices are fitted to prevent spillage or leakage of contaminated material during transportation.
- D. The Contractor must provide, install, and maintain any temporary stockpiling or loading facilities on site as required until completion of material handling activities. The location and design of any such facilities must be included in the MHP.

8.01 C1.3 CONSTRUCTION DETAILS

A. Material Handling

1. Immediately after excavation of non-hazardous contaminated soil the Contractor must:
 - a. Load material directly onto trucks/tankers/roll offs for disposal off site; or

- b. If interim stockpiling is required, place contaminated soil on a minimum of 20 mil. polyethylene sheeting and cover it securely by minimum of 10 mil. polyethylene sheeting to protect against cross contamination, airborne dust, leaching or runoff of contaminants into the subsurface, groundwater, or stormwater. Weight or secure the sheeting by appropriate means and seal seams as approved by the DDC to prevent tearing or removal by wind or weather. Grade surrounding surface to provide for positive drainage away from pile. Each stockpile must not exceed 500 cubic yards. Contaminated soils must be stockpiled separately from uncontaminated and hazardous soil at an off-site location approved by DDC or secured on-site by the Contractor, meeting all required Federal, State and Local stipulations. Stockpiles must be at least 800 feet away from any sensitive receptors, such as schools, daycare center, hospitals, nursing homes, etc., and at least 100 feet away from any water body.
2. Institute appropriate procedures and security measures to ensure the protection of site personnel and the public from contaminated materials as described in the approved MHP, Site HASP, and Item 8.01 S - Health and Safety.
3. Any soil encountered that appears to contain unknown contaminants (based on visual, odor, or other observation), or that vary substantially from the material originally identified must be segregated in stockpiles and the independent Environmental Consultant promptly notified to collect soil samples for analysis. Construct stockpiles to the same requirements as stated in subsection (A)(1)(b) above.
4. Provide any dewatering that is necessary to complete the work. Contaminated water must be disposed of in accordance with Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.
5. Provide and operate field organic vapor test equipment, a photoionization detector (PID) or a flame ionization detector (FID), to detect general organic vapor levels at intervals of approximately 50 cubic yards of soil excavated, when visual or odor observations indicate the material may substantially differ from the soil previously excavated and/or as directed by the independent Environmental Consultant.

B. Off-Site Transportation to Disposal Facility

1. General
 - a. The Contractor must furnish all labor, equipment, supplies and incidental costs required to transport contaminated material from the work area to the off-site disposal facility, and any other items and services required for transporting contaminated material for disposal at an off-site facility.
 - b. The Contractor will be responsible for tracking all materials and vehicles from the site to the off-site scale.
 - c. The Contractor must submit to the Engineer the certified tare and gross weight slips for each load received at the accepted facility which must be attached to each returned manifest. These documents must be maintained and kept with project field records.
 - d. Contaminated soils must be delivered to the disposal or treatment facility within 30 calendar days after excavation.
 - e. The Contractor must coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule.

- f. The Contractor must inspect all vehicles leaving the project site to ensure that contaminated soils adhering to the wheels or undercarriage are removed prior to the vehicle leaving the site.
- g. The Contractor must obtain letters of commitment from the waste haulers and the TSD facility to haul and accept shipments.
- h. The Contractor must provide waste profile forms to OEGS for review and approval before transporting contaminated soil to the approved TSD facility.

2. Hauling

- a. The Contractor must coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities must be measured and recorded upon arrival at the disposal facility. If any deviation between the two (2) records occurs, the matter is to be reported immediately to the Engineer and to be resolved by the Contractor to the satisfaction of the Engineer.
- b. The Contractor will be held responsible, at its own cost for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off-site.
- c. The Contractor must ensure that trucks are protected against contamination by properly covering and lining them with polyethylene sheeting or by decontaminating them prior to and between acceptances of loads. Trucks with loaded contaminated soil must be covered securely with tarps before leaving the project site to prevent generation of airborne dust during hauling.
- d. The Contractor will be responsible for inspecting the access routes for road conditions, overhead clearance, and weight restrictions.
- e. The Contractor must only use the transporter(s) identified in the approved MHP for the performance of work. A revised MHP or an addendum to the original approved MHP must be submitted to OEGS for review and approval at no additional cost to the City for any use of substitute or additional transporters.
- f. The Contractor must develop, document, and implement a policy for accident prevention.
- g. The Contractor must not combine contaminated materials from other projects with material from this project.
- h. No material will be transported until approval by the Engineer is obtained.

3. Off-Site Disposal

- a. The Contractor must use only the disposal facility(ies) identified in the approved MHP for the performance of the work. A revised MHP or an addendum to the original approved MHP must be submitted to OEGS for review and approval at no additional cost to the City for any use of substitutions or additions of disposal facility.
- b. The Contractor must be responsible for acceptance of the materials at an approved facility, for ensuring that the facility is properly permitted to accept the stated materials, and for ensuring that the facility provides the stated treatment and/or disposal services.
- c. The City reserves the right to contact and visit the TSD facility and regulatory agencies to verify the agreement to accept the stated materials and to verify any other information provided.

- d. In the event that the identified and approved facility ceases to accept the stated materials or the facility ceases operations, it is the Contractor's responsibility to locate an alternate approved and permitted facility(ies) for accepting materials. The alternate facility(ies) must be approved in writing by the Engineer in the same manner and with the same requirements as for the original facility(ies). This must be done at no extra cost or delay to the City.
 - e. The Contractor must obtain manifest forms, and complete the shipment manifest records required by the appropriate regulatory agencies for verifying the material and quantity of each load in unit of volume and weight. Copies of each manifest must be submitted to the Engineer within four (4) business days following shipment, and within three (3) business days after notification of receipt of the facility. The signed manifests must be maintained and kept with the project field records. Any manifest discrepancies must be reported immediately to the Engineer and be resolved by the Contractor to the satisfaction of the Engineer.
4. Equipment and Vehicle Decontamination
- a. The Contractor must design and construct a portable decontamination station to be used to decontaminate equipment and vehicles that have been used to handle contaminated soil. The cost for this work will be paid under Item 8.01 S - Health and Safety.
 - b. Water generated during the decontamination process must be disposed of in accordance with Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.

8.01 C1.4 METHOD OF MEASUREMENT

Quantities for contaminated soils will be measured in tons. The tonnage will be determined by off-site truck scales, as per Subsection 8.01 C1(3)(B)(1), that are capable of generating load tickets.

8.01 C1.5 PRICE TO COVER

- A. The unit bid price per ton for Item 8.01 C1 must include the cost of furnishing all labor, materials, equipment, plan, and insurance for excavation, handling, transportation, disposal, documentation, fees, permits, loading, stockpiling, hauling, and any other incidentals necessary to complete all the work as specified herein for handling, transporting, and disposal of non-hazardous contaminated soil.
- B. Final disposal of hazardous soil will be paid for under Item 8.01 H – Handling, Transporting and Disposal of Hazardous Soil. Disposal of decontamination water will be paid for under Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.
- C. Backfill will be paid for under its respective item as specified in the contract document.
- D. The independent Environmental Consultant will be paid under Item 8.01 S – Health and Safety.

Payment will be made under:

ITEM NUMBER	ITEM	PAYMENT UNIT
8.01 C1	Handling, Transporting, and Disposal of Non-Hazardous Contaminated Soil	Tons

**ITEM 8.01 C2 SAMPLING AND TESTING OF
CONTAMINATED/POTENTIALLY HAZARDOUS SOIL FOR
DISPOSAL PURPOSES**

8.01 C2.1 WORK TO INCLUDE

A. Description

The work will consist of collecting and analyzing representative samples of soil to be excavated in-situ and/or ex-situ from stockpiles for parameters typically requested by the disposal facilities to determine if the soil to be excavated is suitable for reuse, or to be hauled off-site for disposal purposes as contaminated and/or hazardous soil.

B. Sampling and Laboratory Analysis

1. At least forty-five (45) days prior to the commencement of work, the Contractor's independent Environmental Consultant must submit an FSP and an Investigation Health and Safety Plan (Investigation HASP) to OEGS for review and approval, prior to conducting the field sampling. The FSP must include, at a minimum, the following information:

- a. Project information
- b. Description of sample collection methodology for soil to be excavated and soil which appears to contain unknown contaminants based on field observation
- c. Type of analyses
- d. Sample preservation and handling
- e. Training and experience of the personnel who will collect the samples
- f. Equipment Decontamination
- g. Analytical laboratory's name, address, New York State Department of Health's ELAP certification number, and telephone number
- h. Map of the project area
- i. Sample location plan
- j. Chain of Custody

The Investigation HASP must identify actual and potential hazards associated with planned sampling field activities and stipulate appropriate health and safety procedures, so as to minimize field personnel exposures to physical, biological, and chemical hazards that may be present in the sampling media. The Investigation HASP must include, at a minimum, the following information:

- a. Project information
 - b. Description of work to be performed
 - c. Names of responsible health and safety personnel
 - d. Worker training
 - e. Job hazard analysis
 - f. Confined Space Entry Plan (if applicable)
 - g. Personal monitoring (if applicable)

- h. Community Air Monitoring Plan (CAMP, if applicable)
 - i. Personnel Protection Equipment (PPE)
 - j. Decontamination
 - k. Safety rules
 - l. Spill prevention and control, dust control, vapor/odor suppression procedures
 - m. Identification of nearest hospital and route
 - n. Emergency Incident Reporting
2. The Contractor's Environmental Consultant must collect one (1) grab and one (1) composite sample per 500 cubic yards of soil to be excavated in-situ and/or ex-situ from stockpiles. Sample locations must be placed throughout along the project area. For in-situ sampling, each grab soil sample must be collected from either the 6-inch interval above the water table (when encountered) or the 6-inch interval above the bottom of the proposed excavation depth (where recovery allowed), or from the 6-inch interval showing the highest potential for contamination based on field observation. For composite soil sampling, grid sampling must be performed for projects with excavation depth deeper than six (6) feet below grade. Each composite sample must consist of five (5) grab samples collected from various intervals along the depth of excavation at each sampling location. For stockpiled soils, each composite sample must consist of five (5) grab samples collected from various depths within each soil stockpile, at least two feet below the soil surface. For drummed soil, one (1) composite sample per 10 drums must be collected. Each composite soil sample must consist of one (1) grab sample from each of the 10 drums.
 3. The quality of the data from the sampling program is the Contractor's responsibility. The Contractor must furnish all qualified personnel, materials, equipment and instruments necessary to carry out the sampling. Unless directed otherwise, all sampling procedures must follow the NYSDEC sampling guidelines and protocols. All sampling must be conducted by a qualified person trained in sampling protocols using standard accepted practices for obtaining representative samples.
 4. Each grab and composite sample must be analyzed for all parameters required by disposal facilities accepting contaminated and hazardous soil. .
 5. All sample containers must be marked and identified with legible sample labels, which must indicate the project name, sample location and/or container, the sample number, the date and time of sampling, preservatives utilized and other information that may be useful in determining the character of the sample. Chain-of-custody must be tracked from laboratory issuance of sample containers through laboratory receipt of the samples.
 6. The Contractor must maintain a bound sample logbook. The Contractor must provide the Engineer access to it at all times and must turn it over to the Engineer in good condition at the completion of the work. The following information, at a minimum, must be recorded to the log:
 - a. Sample identification number
 - b. Sample location
 - c. Field observation
 - d. Sample type
 - e. Analyses
 - f. Date/time of collection

- g. Collector's name
 - h. Sample procedures and equipment utilized
 - i. Date sent to laboratory and name of laboratory
7. The City reserves the right to direct the Contractor to conduct alternative sampling in lieu of the parameters described in subsection 8.01 C2(1)(B)(4), if the situation warrants. The substitute sampling parameters will be of equal or lesser monetary value than those described in subsection 8.01 C2(1)(B)(4), as determined by industry laboratory pricing standards.
 8. Only dedicated sampling equipment may be used to collect these samples. All equipment involved in field sampling must be decontaminated before being brought to the sampling location, and must be properly disposed after use.
 9. The Contractor's Environmental Consultant must prepare a Field Sampling Result Report (FSSR), tabulate the analytical results, and compare the data to the applicable NYSDEC Part 375.6 Soil Cleanup Objectives, and TCLP for Hazardous Waste published in RCRA and 6 NYCRR Part 371, or 40 CFR Section 261. If the soil is to be disposed of in a disposal facility outside of the State of New York, the soil sampling data must also be compared to the applicable regulatory criteria established by the state in which the disposal facility is located. The FSSR, with the tabulated tables and laboratory analytical data, must be submitted to OEGS for review and approval prior to any soil reuse or disposal activities.
 10. Soils exceeding any of the hazardous characteristic criteria meet the legal definition of hazardous soils (rather than non-hazardous contaminated soils) and must be transported or disposed of under Item 8.01 H – Handling, Transporting and Disposal of Hazardous Soil. All analyses must be done by a laboratory that has received approval from the ELAP for the methods to be used. The Contractor must specify the laboratory in the MHP.
 11. The Contractor must contact the disposal facility where the waste will be sent for permanent disposal, and arrange to collect any additional samples required by the facility. The cost associated with additional sampling and testing must be included in the bid price of this Item.

8.01 C2.2 METHOD OF MEASUREMENT

Quantities for samples must be measured as the number of sets of samples that are tested. A set will be defined as one (1) grab and one (1) composite samples per 500 cubic yards to be analyzed for the full range of parameters as specified in subsection 8.01 C2(1)(B)(4).

8.01 C2.3 PRICE TO COVER

The unit price bid per set for Item 8.01 C2 will include the cost of furnishing all labor, materials, equipment, plan, and insurance necessary for sampling, handling, transporting, testing, documentation, fees, permits, and any other incidentals necessary to complete the work as specified herein for in-situ and ex-situ soil sampling and analysis for waste disposal parameters.

Payment will be made under:

<u>ITEM NUMBER</u>	<u>ITEM</u>	<u>PAYMENT UNIT</u>
8.01 C2	Sampling and Testing of Contaminated/ Potentially Hazardous Soil for Disposal Purposes	Set

ITEM 8.01 H HANDLING, TRANSPORTING AND DISPOSAL OF HAZARDOUS SOIL

8.01 H.1 WORK TO INCLUDE

A. General

This work will consist of the handling, transportation, and disposal of hazardous soils, which are defined as soils showing exceedances of TCLP for Hazardous Waste published in RCRA, 6 NYCRR Part 371, or 40 CFR Section 261. Hazardous soil can also be contaminated soils, as defined in Item 8.01 C1, but must be handled, transported, and disposed of as hazardous soil under Item 8.01 H, in accordance with the specifications herein. For the purpose of this specification, soils will be defined as any materials excavated below the pavement and base for pavement.

The Contractor must ensure that all operations associated with the handling, sampling, loading, transportation, and disposal of hazardous materials are in compliance with the applicable Federal, State, and Local statutes and regulations. The Contractor must supply all equipment, material and labor required to conduct the specified work under this section.

The Contractor must document the excavation, handling, sampling, and testing, transportation, and disposal of hazardous soils. The City must be listed in the disposal documents as the waste generator.

The Contractor must decontaminate all equipment prior to its removal from the exclusion zone and/or following contact with hazardous materials, as detailed in Item 8.01 S - Health and Safety. Water generated during the decontamination process must be disposed of under Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.

The Contractor must retain an independent Environmental Consultant, meeting the requirements specified in Section 8.01 C1. The independent Environmental Consultant must conduct sampling for laboratory analysis of soil to be excavated to determine whether the soil is contaminated and/or hazardous.

All work under Item 8.01 H must be performed under the direct supervision of the Contractor's Environmental Consultant, as approved by the OEGS.

B. Material Handling Plan:

At least 45 days prior to the commencement of work, the Contractor must submit to the OEGS for review a MHP. The MHP must be approved by the OEGS prior to the Contractor beginning any soil excavation work. The MHP must, at a minimum, consist of:

1. The Contractor's procedures for identifying hazardous soils during excavation, including the specific model and manufacturer of intended organic vapor monitoring equipment and calibration procedures to be used. It should also include the training and experience of the personnel who will operate the equipment.
2. The Contractor's procedures for safely handling hazardous soils or soils which have not yet been tested but are believed to be potentially hazardous. The procedures must include personnel safety and health as well as environmental protection considerations.
3. Name, address, NYSDOH ELAP status and telephone number of the proposed laboratory for analysis of representative soil samples.
4. Identification of the Contractor's proposed waste transporter(s). This information must include:
 1. Name and Waste Transporter Permit Number
 2. Address
 3. Name of responsible contact for the waste transporter

4. Telephone number for the contact
5. All necessary permit authorizations for each type of waste transported
6. Previous experience in performing the type of work specified herein
5. The name and location of the facility where an off-site scale is located. The Contractor must outline the procedures on controlling trucks leaving the work site and en-route to the off-site scale.
6. All staging/stockpiling areas (if stockpiling areas are intended and available), or alternate procedures that will be used. Alternate procedures may include, but are not limited to, agreements from the intended disposal facilities to accept boring data and/or analytical data previously obtained during the site characterization so that materials may be directly loaded into vehicles for shipment to the disposal facility.
7. A backup facility must be provided, should the staging/stockpile areas become unavailable, insufficient in area or not be present by some other unforeseen difficulty.
8. Identification of the Contractor's two proposed Treatment Storage or Disposal (TSD) facilities for hazardous soils (primary and back-up) for final disposal of the hazardous soils. Both primary and backup TSD facilities must be currently USEPA or State-approved RCRA TSD facilities for hazardous soils. The information required for each facility must include:
 - a. General Information
 7. Facility name and the USEPA identification number
 8. Facility location
 9. Name of responsible contact for the facility
 10. Telephone number for contact
 11. Signed letter of agreement to accept waste as specified in this contract. The letter must indicate agreement to handle and accept the specified estimated quantities and types of material during the time period specified in the project schedule and any time extension as deemed necessary.
 12. Unit of measure utilized at disposal facility for costing purposes
 - b. A listing of all permits, licenses, letters of approval, and other authorizations to operate, which are currently held and valid for the proposed facility.
 - c. A listing of all permits, licenses, letters of approval, and other authorizations to operate which have been applied for by the proposed facility but not yet granted or issued.
 - d. The Contractor must specify and describe the disposal/containment unit(s) that the proposed facility will use to manage the waste. The Contractor must identify the capacity available in the units and the capacity reserved for the subject waste.
 - e. The Contractor must provide the date of the proposed facility's last compliance inspection under RCRA.
 - f. A list of all active (unresolved) compliance orders (or agreements), enforcement notices, or notices of violations issued to the proposed facility must be provided. The source and nature of the cause of violation must be stated, if known.

9. Description of all sampling and field/laboratory analyses that will be needed to obtain disposal facility approval.

8.01 H.2 MATERIALS

- A. The Contractor must provide containers as specified in the USDOT regulations.
- B. The Contractor must provide polyethylene sheeting, which is to be placed under (20 mil. thickness minimum) and over (10 mil. thickness minimum) soil piles.
- C. The Contractor must assure that the waste transporter's appropriate choice of vehicles and operating practices are fitted to prevent spillage or leakage of contaminated material during transportation.
- D. The Contractor must provide, install, and maintain any temporary stockpiling or loading facilities on site as required until completion of material handling activities. The location and design of any such facilities must be included in the MHP.

8.01 H.3 CONSTRUCTION DETAILS

A. Material Handling

1. Immediately after excavation of hazardous soil the Contractor must:
 - a. Load material directly onto drums/trucks/tankers/roll offs for disposal off site. Containers must be labeled as hazardous soil while being held for disposal; or
 - b. If interim stockpiling is required, place hazardous soil on a minimum of 20 mil. polyethylene sheeting and cover it securely by minimum of 10 mil. polyethylene sheeting to protect against cross contamination, airborne dust, leaching or runoff of contaminants into the subsurface, groundwater, or stormwater. Weight or secure the sheeting by appropriate means and seal seams as approved by the Engineer to prevent tearing or removal by wind or weather. Grade surrounding surface to provide for positive drainage away from pile. Each stockpile must not exceed 500 cubic yards. Hazardous soils must be stockpiled separately from uncontaminated and contaminated soil at an off-site location approved by the Engineer or secured on-site by the Contractor, meeting all required Federal, State and Local stipulations. Stockpiles must be labelled as hazardous soil and situated at least 800 feet away from any sensitive receptors, such as schools, daycare center, hospitals, nursing homes, etc., and at least 100 feet away from any water body.
2. Institute appropriate procedures and security measures to ensure the protection of site personnel and the protection of the public from hazardous soils as described in the approved MHP, Site HASP, and Item 8.01 S - Health and Safety.
3. Any soil encountered that appears to contain unknown contaminants (based on visual, odor, or other observation), or that vary substantially from the material originally identified must be segregated in stockpiles and the independent Environmental Consultant promptly notified to collect soil samples for analysis. Construct stockpiles to the same requirements as stated in subsection (A)(1)(b) above.
4. Provide any dewatering that is necessary to complete the work. Contaminated water must be disposed of in accordance with Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.

5. Provide and operate field organic vapor test equipment, a PID or a FID, to detect general organic vapor levels at intervals of approximately 50 cubic yards of soil excavated, when visual or odor observations indicate the material may substantially differ from the soil previously excavated and/or as directed by the independent Environmental Consultant.

C. Off-Site Transportation to Disposal Facility

1. General

- a. The Contractor must furnish all labor, equipment, supplies and incidental costs required to transport contaminated material from the work area to the off-site disposal facility, and any other items and services required for transporting hazardous material for disposal at an off-site facility.
- b. The Contractor is responsible for obtaining the USEPA hazardous waste generator identification number for the City. The application must be submitted to OEGS for review and approval prior to submission to USEPA. The Contractor must prepare the annual hazardous waste report for the project and submit to the NYSDEC and USEPA.
- c. The Contractor will be responsible for tracking all material/vehicles from the site to the off-site scale and to the approved disposal facility.
- d. The Contractor must provide to the Engineer certified tare and gross weight slips for each load received at the accepted facility which must be attached to each returned manifest. These documents must be maintained and kept with project field records.
- e. Hazardous soils must be delivered to the disposal or treatment facility within 30 calendar days after excavation.
- f. The Contractor must coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule.
- g. The Contractor must inspect all vehicles leaving the project site to ensure that hazardous soils adhering to the wheels or undercarriage are removed prior to the vehicle leaving the site.
- h. The Contractor must obtain letters of commitment from the waste haulers and the TSD facility to haul and accept shipments.
- i. The Contractor must provide waste profile forms to OEGS for review and approval before transporting hazardous soil to the approved TSD facility.

2. Hauling

- a. The Contractor must coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities must be measured and recorded upon arrival at the disposal facility. If any deviation between the two records occurs, the matter is to be reported immediately to the Engineer and to be resolved by the Contractor to the satisfaction of the Engineer.
- b. The Contractor will be responsible, at its own cost for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off-site.
- c. The Contractor must ensure that trucks are protected against contamination by properly covering and lining them with polyethylene sheeting or by decontaminating them prior to and between acceptances of loads. Trucks with loaded contaminated soil must be covered securely with tarp before leaving the project site to prevent generation of airborne dust during hauling.

- d. The Contractor will be responsible for inspecting the access routes for road conditions, overhead clearance, and weight restrictions.
 - e. The Contractor must only use the transporter(s) identified in the approved MHP for the performance of work. Only a transporter with a current Part 364 Waste Transporter Permit from NYSDEC may transport hazardous soil. A revised MHP or an addendum to the original approved MHP must be submitted to OEGS for review and approval at no additional cost to the City for any use of substitute or additional transporters.
 - f. The Contractor must develop, document, and implement a policy for accident prevention.
 - g. The Contractor must not combine hazardous materials from other projects with material from this project.
 - h. No material will be transported until approval by the Engineer is obtained.
3. Off-Site Disposal
- a. The Contractor must use only the disposal facility(ies) identified in the approved MPH for the performance of the work. A revised MHP or an addendum to the original approved MHP must be submitted to OEGS for review and approval at no additional cost to the City for any use of substitutions or additions of disposal facility.
 - b. The Contractor will be responsible for acceptance of the materials at an approved facility, for ensuring that the facility is properly permitted to accept the stated materials, and for ensuring that the facility provides the stated treatment and/or disposal services.
 - c. The City reserves the right to contact and visit the TSD facility and regulatory agencies to verify the agreement to accept the stated materials and to verify any other information provided.
 - d. In the event that the identified and approved facility ceases to accept the stated materials or the facility ceases operations, it is the Contractor's responsibility to locate an alternate approved and permitted facility(ies) for accepting materials. The alternate facility(ies) must be approved in writing by the Engineer in the same manner and with the same requirements as for the original facility(ies). This must be done at no extra cost or delay to the City.
 - e. The Contractor must obtain manifest forms, and complete the shipment manifest records required by the appropriate regulatory agencies for verifying the material and quantity of each load in unit of volume and weight. Copies of each manifest must be submitted to the Engineer within four (4) business days following shipment, and within three (3) business days after notification of receipt of the facility. The signed manifests must be maintained and kept with the project field records. Any manifest discrepancies must be reported immediately to the Engineer and be resolved by the Contractor to the satisfaction of the Engineer.
 - f. The Contractor must submit all results and weights to the Engineer.
 - g. The Contractor is responsible to pay all fees associated with the generation and disposal of all excavated hazardous waste. These fees include, but are not limited to, the New York State Department of Finance and Taxation (DFT) quarterly fees for hazardous waste and the NYSDEC annual hazardous waste regulatory fee program. The Contractor must submit a copy of proof of payment to the Engineer and OEGS.

4. Equipment and Vehicle Decontamination

- a. The Contractor must design and construct a portable decontamination station to be used to decontaminate equipment and vehicles that have been used to handle contaminated soil. The cost for this work will be paid under Item 8.01 S - Health and Safety.
- b. Water generated during the decontamination process must be disposed of in accordance with Item 8.01 W1 – Removal, Treatment, and Discharge/Disposal of Contaminated Water.

8.01 H.4 METHOD OF MEASUREMENT

Quantities for hazardous soils will be measured in tons. The tonnage will be determined by off-site truck scales, as per Subsection 8.01 H1.3.B, that are capable of generating load tickets.

8.01 H.5 PRICE TO COVER

- B. The unit bid price bid per ton for Item 8.01 H will include the cost of furnishing all labor, materials, equipment, plan, and insurance for excavation, handling, transportation, disposal, documentation, fees, permits, loading, stockpiling, hauling, and any other incidentals necessary to complete all the work as specified herein for handling, transporting, and disposal of hazardous soil.
- B. Final disposal of contaminated soil will be paid for under Item 8.01 C1 – Handling, Transporting and Disposal of Non-Hazardous Contaminated Soils. Disposal of decontamination water will be paid for under Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.
- C. Backfill will be paid for under its respective item as specified in the contract document.
- D. The independent Environmental Consultant will be paid under Item 8.01 S – Health and Safety.

Payment will be made under:

<u>ITEM NUMBER</u>	<u>ITEM</u>	<u>PAYMENT UNIT</u>
8.01 H	Handling, Transporting, and Disposal of Hazardous Soil	Tons

ITEM 8.01 S HEALTH AND SAFETY

8.01 S.1 WORK TO INCLUDE

Health and Safety Requirements

A. Scope of Work

It is the Contractor's responsibility to stage and conduct the Contractor's work in a safe manner. The Contractor must implement a Health and Safety Plan (HASP) for contaminated/hazardous soil intrusive activities as set forth in OSHA Standards 1910.120 and 1926.650-652. The Contractor must ensure that all workers have at a minimum hazard awareness training. The Contractor must segregate contaminated work area in secured exclusion zones. These zones must limit access to Contractor personnel specifically trained to enter the work area. The exclusion zone must be set up to secure the area from the public and untrained personnel. The project health and safety program will apply to all construction personnel including persons entering the work area. In addition, the Contractor must protect the public from on-site hazards, including subsurface contaminants associated with on-site activities. The HASP must be signed off by a Certified Industrial Hygienist and reviewed and approved by OEGS.

Work must include, but not be limited to:

1. Implementation of a baseline medical program.
2. Providing safety equipment and protective clothing for site personnel, including maintenance of equipment on a daily basis; replacement of disposable equipment as required; decontamination of clothing, equipment and personnel; and providing all other health and safety measures.
3. Providing, installing, operating and maintaining on-site emergency medical first aid equipment as specified in this section for which payment is not provided under other pay items in this Contract.
4. Providing, installing, operating, maintaining and decommissioning all equipment and personnel decontamination facilities specified within this section, including, but not limited to, the decontamination pad, decontamination water supply, decontamination water collection equipment and all other items and services required for the implementation of the health and safety requirements for which pay items are not provided elsewhere in this Contract.
5. Provide the minimum health and safety requirements for excavation activities within the limits of this Contract.
6. Implement and enforce a HASP: The HASP as presented in these specifications is dynamic with provisions for change to reflect new information, new practices or procedures, changing site environmental conditions or other situations which may affect site workers and the public. The HASP will also address measures for community protection, accident prevention, personnel protection, emergency response/contingency planning, air monitoring, odor control and hazardous chemicals expected on site. Providing a Confined Space Entry Program as defined in the Occupational Safety and Health Act, Confined Space Entry Standard, 29 CFR 1910.146.

B. Environmental Consulting Services

The Contractor must retain an independent Environmental Consultant to obtain all permits and perform all field screening, air monitoring, community air monitoring, soil and water sampling, and health and safety services.

4. If conditions within the exclusion zone are deemed hazardous, then the Contractor and its independent Environmental Consultant must ensure that all personnel working within identified exclusion zones and/or involved (direct contact) with the handling, storage or transport of hazardous and contaminated materials must have completed a minimum of forty (40) hours of Health and Safety Training on Hazardous Waste Sites in accordance with 29 CFR 1910.120(e). The training program must be conducted by a qualified safety instructor. If conditions in the exclusion zone are deemed to be non-hazardous, the independent Environmental Consultant must provide site specific training.
5. The Contractor must ensure that on-site management and supervisors directly responsible for or who supervise employees engaged in hazardous waste operations must receive the training specified in above and at least eight (8) additional hours of specialized training on managing such operations at the time of job assignment.

C. Submittals

1. The Contractor must submit a written HASP, as specified herein, to OEGS for review and approval. The written HASP must be submitted, within thirty (30) calendar days after the availability of analytical results of the soil and groundwater testing, as required under Section 8.01 C2 and Section 8.01 W2. The Contractor must make all necessary revisions required by OEGS and resubmit the HASP to OEGS for acceptance. Start-up work for the project will not be permitted until written acceptance has been issued by OEGS.
2. Daily safety logs must be maintained by the Contractor and must be submitted to the Engineer either on request or on completion of the work. Training logs must be maintained by the Contractor and submitted to the Engineer either on request or on completion of the work. Daily logs on air monitoring during excavation activities must be prepared and maintained by the Contractor and submitted to the Engineer either on request or upon completion of the work.
3. A closeout report must be submitted by the Contractor to the Engineer upon completion of the work within the defined exclusion zones. This report must summarize the daily safety and monitoring logs and provides an overview of the Contractor's performance regarding environmental and safety issues. The report must carefully document all areas where contamination has been found including pictures, addresses of locations, and potential sources.
4. Medical Surveillance Examinations: The Contractor must submit to the Engineer the name, office address and telephone number of the medical consultant utilized. Evidence of baseline medical examinations together with the evidence of the ability to wear National Institute for Occupational Safety and Health (NIOSH) approved respirators (as specified in American National Standards Institute (ANSI) Z88.6) must be provided to the Engineer for all construction personnel who are to enter the exclusion zones.
5. Accident Reports: All accidents, spills, or other health and safety incidents must be reported to the Engineer.

D. Health and Safety Plan

The HASP must comply with OSHA regulations 29 CFR 1910.120/1926.65. This document must at a minimum contain the following:

1. Description of work to be performed
2. Site description
3. Key personnel
4. Worker training procedures

5. Work practices and segregation of work area
6. Hazardous substance evaluation
7. Hazard assessment
8. Personal and community air monitoring procedures and action levels
9. Personal protective equipment
10. Decontamination procedures
11. Safety rules
12. Emergency procedures
13. Spill prevention and control, as well as spill reporting procedures
14. Dust control, vapor/odor suppression procedures
15. Identification of the nearest hospital and route
16. Confined space procedures
17. Excavation safety procedures

8.01 S.2 MEASUREMENT

Health and Safety Requirements

- A. 25% of the lump sum price will be paid when the following items are implemented or mobilized:
- Medical surveillance program
 - Health and safety training
 - Health and safety plan
 - Environmental and personnel monitoring
 - Instrumentation
 - Spill control
 - Dust control
 - Personnel and equipment decontamination facilities
 - Personnel protective clothing
 - Communications
 - Mobilization
- B. 50% will be paid in proportional monthly amounts over the period of work.
- C. 25% will be paid when the operation is demobilized and removed from the project site.

8.01 S.3 PRICE TO COVER

Health and Safety Requirements

The lump sum price bid for the health and safety requirements will include all labor, materials, equipment, and insurance necessary to complete the work in accordance with these specifications. The price bid will include, but not be limited to, the following:

- A. Providing training, safety personnel, air monitoring and medical examinations as specified.
- B. Providing safety equipment and protective clothing for site personnel, including maintenance of equipment on a daily basis; replacement of disposable equipment as required; decontamination of clothing, equipment and personnel; and all other health and safety activities or costs not paid for under other pay items in this Contract.
- C. Providing, installing, operating and maintaining on-site emergency medical and first aid equipment. This includes all furnishings, equipment, supplies and maintenance of all medical equipment, and all other health and safety items and services for which payment is not provided under other pay items in this Contract.
- D. Providing, installing, operating, maintaining, and decommissioning all personnel and equipment decontamination facilities, including decontamination pad, decontamination water supply, and all other items and services required for the implementation of the health and safety requirements for which pay items are not provided elsewhere in this Contract. Vehicle decontamination pads will be included in the price of this item. Disposal of decontamination fluid will be paid for under Item 8.01 W1 – Removal, Treatment, and Discharge/Disposal of Contaminated Water.
- E. Spill Control
 - 1. Payment will account for furnishing, installing, and maintaining all spill control equipment and facilities. Payment will include equipment and personnel to perform emergency measures required to contain any spillage and to remove spilled materials and soils or liquids that become contaminated due to spillage during work within the exclusion zones and handling of excavated soils and liquids from these areas. This collected spill material will be properly disposed of.
 - 2. Payment under this item will not include testing, handling, transportation or disposal of petroleum-contaminated/potentially hazardous soils excavated during construction. The price for this work will be paid for under Items 8.01 C1 – Handling, Transporting and Disposal of Non-Hazardous Contaminated Soils, 8.01 C2 – Sampling and Testing of Contaminated/Potentially Hazardous Soil for Disposal Purposes or 8.01 H – Handling, Transporting, and Disposal of Hazardous Soil, as appropriate.
- F. Dust Control

Payment will account for furnishing, installing, and maintaining dust control equipment and facilities to be used whenever applicable dust levels are exceeded. Payment will include all necessary labor, equipment, clean water, foam, and all other materials required by the Dust Control Plan. The NYSDOH Community Air Monitoring Plan (CAMP) may be used as guidance.
- G. Vapor/Odor Suppression

Payment will account for furnishing, installing and maintaining vapor/odor control equipment and facilities to be used whenever organic vapor monitoring or the presence of odors indicates that vapor suppression is required to protect workers or the public. Payment will include all necessary labor, equipment, clean water, foam and all other materials required by the Vapor/Odor Suppression Plan.
- H. Mobilization/Demobilization
 - 1. Mobilization

Payment will include the following, but not be limited to:

 - a. All work required to furnish, install and maintain all signs, fencing, support zone facilities, parking areas and all temporary utilities;

- b. All work required to furnish, install, and maintain an office space with phone and utilities for health and safety personnel;
- c. All work required for complete preparation of lay down area for roll-off containers, including sampling, and any required fencing;
- d. All direct invoiced cost from bonding companies and government agencies for permits and costs of insurance; and
- e. All other items and services required for mobilization and site preparation.

2. Demobilization

Payment will include but not be limited to: All work required to sample the area; remove from the site all equipment, temporary utilities and supporting facilities; performance of necessary decontamination and repairs; disposal of disposable equipment and protective gear and other items and services required for complete demobilization.

Payment will be made under:

<u>ITEM NUMBER</u>	<u>ITEM</u>	<u>PAYMENT UNIT</u>
8.01 S	Health and Safety	Lump Sum

ITEM 8.01 W1 REMOVAL, TREATMENT, AND DISCHARGE/DISPOSAL OF CONTAMINATED WATER

8.01 W1.1 WORK TO INCLUDE

General: This work must consist of the proper removal and disposal of all contaminated groundwater and decontamination water generated during construction operations. The Contractor must be solely responsible for the proper disposal or discharge of all contaminated water generated at the job site. The Contractor will have the option of treating water on-site for discharge to the sewer system or removing contaminated water for off-site disposal. The Contractor must be responsible to choose a method compatible to the construction work and will be compensated on a per day basis regardless of method employed. The Contractor will be compensated for only those days where the system is in full operation.

The Contractor must retain a dewatering/water treatment Specialist (hereinafter the “Specialist”) and laboratory as specified under Item 8.01 W2 – Sampling and Testing of Contaminated Water, to conduct any testing that may be required for disposal of impacted water.

The dewatering/water treatment Specialist is responsible to obtain all permits; perform all water sampling, testing; and provide ancillary services related to dewatering and water treatment. The Specialist must at a minimum provide documentation to OEGS demonstrating the minimum requirements as set forth below:

1. The Specialist must demonstrate that it has, at a minimum, three (3) years’ experience in the design of dewatering plans. The Specialist should demonstrate expertise dealing with issues associated with contaminated water. During that three (3) year period, the Specialist must demonstrate that it provided dewatering and water treatment systems as a routine part of its daily operations.
2. The Specialist must be experienced in work of this nature, size, and complexity and must have previous experience in working with the NYSDEC.
3. The Specialist must furnish a project listing identifying the location, nature of services provided, owner, owner’s contact, contact’s telephone number, project duration and value for at least five (5) projects within the last three (3) years of a similar nature, size, and complexity to this one.
4. If conditions within the exclusion zone are deemed hazardous, then the Contractor and its independent Environmental Consultant must ensure that all personnel working within identified exclusion zones and/or involved (direct contact) with the handling, storage or transport of hazardous and contaminated material must have completed a minimum of forty (40) hours of Health and Safety Training on Hazardous Waste Sites in accordance with 29 CFR 1910.120(e). The training program must be conducted by a qualified safety instructor. If conditions in the exclusion zone are deemed to be non-hazardous, the Specialist will be responsible to provide site-specific training to its employees and other affected personnel.
5. The Contractor must ensure that on-site management and supervisors directly responsible for or who supervise employees engaged in hazardous waste operations must receive the training specified in above and at least eight (8) additional hours of specialized training on managing such operations at the time of job assignment.

The Contractor must document all operations associated with the handling, sampling and disposal of contaminated water, and ensure that they are in compliance with applicable Federal, State and Local statutes and regulations.

The Contractor must supply all labor, equipment, transport, plant, material, treatment, and other incidentals required to conduct the specified work of this section.

If water will be disposed of into the sewer system, the Contractor must ensure the Specialist treats the water to comply with the New York City Department of Environmental Protection (NYCDEP) Sewer Effluent Limit concentrations prior to discharge. The Contractor is responsible for providing settling or filtering tanks and any other apparatus required by NYCDEP. Alternatively, the Contractor can provide a plan for transport and disposal at an off-site waste disposal facility.

Within forty-five (45) calendar days after award of Contract, the Contractor must submit to OEGS for review and approval, a Water Handling Plan (WHP). The WHP must be approved by OEGS prior to the Contractor's commencement of work. The minimum requirements for the WHP are specified herein Item 8.01W 1.2, for each type of disposal (disposal into the sewer or off-site disposal). The Contractor must maintain a complete, up to date copy of the WHP on the job site at all times.

8.01 W1.2 CONSTRUCTION DETAILS

For each disposal method the Contractor proposes to utilize (disposal to sewer or off-site disposal), the WHP must include the information required in paragraphs A and B below, as appropriate.

A. On-site treatment and discharge into New York City sewers.

1. Regulations: The Contractor must comply with all applicable regulations. This includes but may not be limited to:
Title 15-New NYCDEP Sewer Use Regulations.
2. Permits: The Contractor is solely responsible to obtain all necessary and appropriate Federal, State and Local permits and approvals. The Contractor will be responsible for performing all and any system pilot tests required for permit approval. This includes but may not be limited to:
 - a. Industrial waste approval for the New York City sewer system.
 - b. Groundwater discharge permit for the New York City sewer system (NYCDEP Division of Sewer Regulation and Control), if discharge to sewer exceeds 10,000 gallons per day.
 - c. The Contractor must comply with NYSDEC State Pollutant Discharge Elimination System (SPDES) Permit Number GP-0-10-001, General Permit for Stormwater Discharges.
 - d. Long Island well permit for Brooklyn and Queens sites, if well points are used for dewatering.
 - e. Wastewater quality control application, NYCDEP.
3. The WHP for this portion of the work must include the following at a minimum:
 - a. Identification and design of Contractor's proposed treatment to assure that the water meets the NYCDEP sewer use guidelines prior to discharge to the sewer, including identification of all materials, procedures, settling or filtering tanks, filters and other appurtenances proposed for treatment and disposal of contaminated water.
 - b. The name, address and telephone number of the contact for the Contractor's proposed chemical laboratory, as well as the laboratory's certifications under Federal, State or non-governmental bodies.

- c. The name, address and telephone number of the contact for the Contractor's proposed independent Environmental Consultant.
 - d. Copies of all submitted permit applications and approved permits the Contractor have received.
- 4. Materials

The Contractor must supply all settling or filtering tanks, pumps, filters, treatment devices and other appurtenances for treatment, temporary storage and disposal of contaminated water. All equipment must be suitable for the work described herein.
- 5. Execution
 - a. The Contractor is solely responsible for disposal of all water, in accordance with all Federal, State and Local regulations.
 - b. The Contractor is solely responsible for any treatment required to assure that water discharged into the sewer is in compliance with all permits and Federal, State and Local statutes and regulations.
 - c. The Contractor is solely responsible for the quality of the water disposed of into the sewers.
 - d. The Contractor is responsible for sampling and testing of water for the NYCDEP Sewer Effluent Limit concentrations. The quality of the data is the Contractor's responsibility. Any sampling and testing must be conducted and paid in accordance with Item 8.01 W2 – Sampling and Testing of Contaminated Water.
 - e. The Contractor will be responsible to maintain the discharge rate to the sewer such that all permit requirements are met, the capacity of the sewer is not exceeded and no surcharging occurs downstream due to the Contractor's actions. Dewatering by means of well points or deep wells will not be allowed in the Boroughs of Brooklyn or Queens where the rate of pumping exceeds forty-five (45) gallons per minute unless the appropriate permit has been secured from the NYSDEC.
 - f. Disposal of Treatment Media
 - (1) The Contractor will be responsible for disposal or recycling of treatment media in accordance with all Federal, State and Local regulations.
 - (2) The Contractor must provide the Engineer with all relevant documentation concerning the disposal of treatment media, including manifests, bills of lading, certificates of recycling or destruction and other applicable documentation.
 - (3) **Disposal of treatment media will not be considered as a separate pay item; instead it will be considered as incidental work thereto and included in the unit price bid.**

B. Off-Site Disposal

- 1. Regulations: The Contractor must conform to all applicable Federal, State and Local regulations pertaining to the transportation, storage and disposal of any hazardous and/or non-hazardous materials as listed in Attachment 2.
- 2. The following must be submitted to the Engineer prior to initiating any off-site disposal:
 - a. (1) Name and waste transporter permit number

- (2) Address
 - (3) Name of responsible contact for the waste transporter
 - (4) Any and all necessary permit authorizations for each type of waste transported
 - (5) Previous experience in performing the type of work specified herein
 - b. General information for each proposed treatment/disposal facility and at least one backup treatment/disposal facility
 - (1) Facility name and USEPA identification number
 - (2) Facility location
 - (3) Name of responsible contact for the facility
 - (4) Telephone number for contact
 - (5) Unit of measure utilized at facility for costing purposes
 - c. A listing of all permits, licenses, letters of approval and other authorizations to operate, which are currently held and valid for the proposed facility as they pertain to receipt and management of the wastes derived from this Contract.
 - d. A listing of all permits, licenses, letters of approval and other authorizations to operate which have been applied for by the proposed facility but not yet granted or issued. Provide dates of application(s) submitted. Planned submittals must also be noted.
 - e. The Contractor must specify and describe the disposal/containment unit(s) that the proposed facility will use to manage the waste and provide dates of construction and beginning of use, if applicable. Drawings may be provided. The Contractor must identify the capacity available in the units and the capacity reserved for the subject waste.
 - f. The Contractor must provide the date of the proposed facility's last compliance inspection.
 - g. A list of all active (unresolved) compliance orders, agreements, enforcement notices or notices of violations issued to the proposed facility must be submitted. The source and nature of the cause of violation must be stated, if known. If groundwater contamination is noted, details of the facility's groundwater monitoring program must be provided.
 - h. Description of all sampling and field/laboratory analyses that will be needed to obtain disposal facility approval.
3. Materials
- All vessels for temporary storage and transport to an off-site disposal facility must be as required in DOT regulations.
4. Execution
- a. General
 - (1) The Contractor must organize and maintain the material shipment records/manifests required by Federal, State and Local laws. The Contractor must include all bills of lading, certificates of destruction, recycling or treatment and other applicable documents.

- (2) The Contractor must coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule. The schedule must be compatible with the availability of equipment and personnel for material handling at the job site.
- (3) The Contractor must inspect all vehicles leaving the project site to ensure that contaminated liquids are not spilling and are contained for transport.
- (4) The Contractor must obtain letters of commitment from the waste haulers and the treatment, disposal or recovery facility to haul and accept shipment. The letter must indicate agreement to handle and accept the specified estimated quantities and types of material during the time period specified in the project schedule and any time extension as deemed as necessary.
- (5) The Contractor must verify the volume of each shipment of water from the site.
- (6) The Contractor is responsible for sampling and testing of water for off-site disposal. The quality of the data is the Contractor's responsibility. Any sampling and testing must be conducted and paid in accordance with Item 8.01 W2 – Sampling and Testing of Contaminated Water.
- (7) The Contractor is responsible for any additional analyses required by the TSD facility, and for the acceptance of the water at an approved TSD facility.

b. Hauling

- (1) The Contractor must not deliver waste to any facility other than the TSD facility(ies) listed on the shipping manifest.
- (2) The Contractor must coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities must also be measured and recorded upon arrival at the TSD facility(ies). If any deviation between the two records occurs, the matter is to be reported immediately to the Engineer and must be resolved by the Contractor to the satisfaction of the Engineer.
- (3) The Contractor will be responsible for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off-site. This cleanup must be accomplished at the Contractor's expense.
- (4) The Contractor will be responsible for inspecting the access routes for road conditions, overhead clearance and weight restrictions.
- (5) The Contractor must only use the transporter(s) identified in the WHP for the performance of work. Only a transporter with a current Part 364 Waste Transporter Permit from NYSDEC may transport this material. Any use of substitute or additional transporters must have previous written approval from the Engineer at no additional cost to the City.
- (6) The Contractor must develop, document, and implement a policy for accident prevention.
- (7) The Contractor must not combine waste materials from other projects with material from this project.
- (8) The Contractor must obtain for the City a hazardous waste generator identification number and will sign the manifest as the generator, if necessary.

- (9) No material must be transported until approved by the Engineer.

c. Disposal Facilities

- (1) The Contractor must use only the TSD facility(ies) identified in the WHP for the performance of the work. Substitutions or additions must not be permitted without prior written approval from OECS, and, if approved, must be at no extra cost to the City.
- (2) The Contractor will be responsible for acceptance of the material at an approved TSD facility, for ensuring that the facility is properly permitted to accept the stated material, and that the facility provides the stated storage and/or disposal services.
- (3) The City reserves the right to contact and visit the disposal facility and regulatory agencies to verify the agreement to accept the stated material and to verify any other information provided. This does not in any way relieve the Contractor of the Contractor's responsibilities under this Contract.
- (4) In the event that the identified and approved facility ceases to accept the stated materials or the facility ceases operations, it is the Contractor's responsibility to locate an alternate approved and permitted facility(ies) for accepting materials. The Contractor is responsible for making the necessary arrangements to utilize the facility(ies), and the alternate facility(ies) must be approved in writing by the Engineer in the same manner and with the same requirements as for the original facility(ies). This must be done with no extra cost or delay to the City.

d. Equipment and Vehicle Decontamination

- (1) The Contractor must design and construct a portable decontamination station to be used to decontaminate equipment and vehicles exiting the exclusion zone. The cost for this work will be paid under Item 8.01 S – Health and Safety.

8.01 W1.3 METHOD OF MEASUREMENT

The quantity for on-site treatment and discharge or off-site disposal will be on a per day basis.

8.01 W1.4 PRICE TO COVER

- A. The per day price bid for Item 8.01 W1 will include the cost of furnishing all labor, materials, equipment, plan, and insurance for handling, transportation, disposal, documentation, permits, hauling, mobilization and demobilization, and any other incidentals thereto to complete the work.
- B. The Contractor will not be paid for water that is within the NYCDEP Sewer Discharge Limits.

Payment will be made under:

<u>ITEM NUMBER</u>	<u>ITEM</u>	<u>PAYMENT UNIT</u>
8.01 W1	Removal, Treatment, and Disposal/Discharge of Contaminated Water	Day

ITEM 8.01 W2 SAMPLING AND TESTING OF CONTAMINATED WATER

8.01 W2.1 WORK TO INCLUDE

A. Description

The work will consist of sampling and testing of potentially contaminated groundwater, surface runoff within the excavated area and all contaminated water generated during the decontamination process.

B. Sampling and Testing

1. The Contractor is responsible, at a minimum, for sampling and testing of contaminated water for the NYCDEP Sewer Effluent Limit concentrations as listed in Attachment 1, and in accordance with the Engineer-approved SSP/FSP and the Investigation HASP, as specified in 8.01 C2. The quality of the data is the Contractor's responsibility. Any additional testing required by the Federal, State and/or disposal facilities must be included in the bid price of this Item.
2. All sampling and testing must be conducted by a person trained in sampling protocols using accepted standard practices and/or the NYSDEC sampling guidelines and protocols.
3. All sample containers must be marked with legible sample labels which must indicate the project name, sample location and/or container, the sample number, the date and time of sampling, preservatives utilized, how the sample was chilled to 4 degrees Celsius, and other information that may be useful in determining the character of the sample.
4. Chain-of-custody must be tracked from laboratory issuance of sample containers through receipt of the samples.
5. The Contractor must maintain a bound sample log book. The Contractor must provide the Engineer access to it at all times and must turn it over to the Engineer in good condition at the completion of the work. The following information, as a minimum, must be recorded to the log:
 - a. Sample identification number
 - b. Sample location
 - c. Field observation
 - d. Sample type
 - e. Analyses
 - f. Date/time of collection
 - g. Collector's name
 - h. Sample procedures and equipment used
 - i. Date sent to laboratory/name of laboratory
6. Only dedicated sampling equipment may be used to collect these samples. All equipment involved in field sampling must be decontaminated before being brought to the site, and must be properly disposed of after use.
7. Samples must be submitted to the Contractor's laboratory within the holding times for the parameters analyzed.

8. All analyses must be done by a laboratory that has received approval from the NYSDOH's ELAP for the methods to be done. The Contractor must specify the laboratory in the WHP.
9. Analytical results for water discharged to the sewer and for off-site disposal must be submitted to the Engineer no later than five (5) days after sample collection.
10. The City reserves the right to direct the Contractor to conduct alternative sampling in lieu of the parameters described above, if the situation warrants. The substitute sampling parameters will be of equal or lesser monetary value than those described above, as determined by industry laboratory pricing standards.

8.01 W2.2 METHOD OF MEASUREMENT

Quantities for samples will be measured as the number of sets of samples that are tested for the NYCDEP Sewer Effluent Limit concentrations. A set will be defined as one (1) representative sample analyzed for the full range of NYCDEP parameters as specified in Attachment 1.

8.01 W2.3 PRICE TO COVER

The unit price bid per set for Item 8.01 W2 will include the cost of furnishing all labor, materials, equipment, plan, and insurance for handling, transport, sampling, testing, documentation, permits, other incidentals necessary to complete the work of sampling and testing of contaminated water. Any additional costs incurred by the Contractor for sampling and testing of contaminated water will be included in the bid price of this Item.

Payment will be made under:

<u>ITEM NUMBER</u>	<u>ITEM</u>	<u>PAYMENT UNIT</u>
8.01 W2	Sampling and Testing of Contaminated Water	Set

ATTACHMENT 1: NYCDEP LIMITATIONS FOR DISCHARGE TO SEWER

**NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTEWATER TREATMENT**

Limitations for Effluent to Sanitary or Combined Sewers

Parameter ¹	Daily Limit	Units	Sample Type	Monthly Limit
Non-polar material ²	50	mg/l	Instantaneous	---
pH	5-11	SU's	Instantaneous	---
Temperature	< 150	Degree F	Instantaneous	---
Flash Point	> 140	Degree F	Instantaneous	---
Cadmium	2	mg/l	Instantaneous	---
	0.69	mg/l	Composite	---
Chromium (VI)	5	mg/l	Instantaneous	---
Copper	5	mg/l	Instantaneous	---
Lead	2	mg/l	Instantaneous	---
Mercury	0.05	mg/l	Instantaneous	---
Nickel	3	mg/l	Instantaneous	---
Zinc	5	mg/l	Instantaneous	---
Benzene	134	ppb	Instantaneous	57
Carbontetrachloride	---	---	Composite	---
Chloroform	---	---	Composite	---
1,4 Dichlorobenzene	---	---	Composite	---
Ethylbenzene	380	ppb	Instantaneous	142
MTBE (Methyl-Tert-Butyl-Ether)	50	ppb	Instantaneous	---
Naphthalene	47	ppb	Composite	19
Phenol	---	---	Composite	---
Tetrachloroethylene (Perc)	20	ppb	Instantaneous	---
Toluene	74	ppb	Instantaneous	28
1,2,4 Trichlorobenzene	---	---	Composite	---
1,1,1 Trichloroethane	---	---	Composite	---
Xylenes (Total)	74	ppb	Instantaneous	28
PCB's (Total) ³	1	ppb	Composite	---
Total Suspended Solids (TSS)	350 ⁴	mg/l	Instantaneous	---
CBOD ⁵	---	---	Composite	---
Chloride ⁵	---	---	Instantaneous	---
Total Nitrogen ⁵	---	---	Composite	---
Total Solids ⁵	---	---	Instantaneous	---

1 All handling and preservation of collected samples and laboratory analyses of samples must be performed in accordance with 40 C.F.R. pt. 136. If 40 C.F.R. pt. 136 does not cover the

pollutant in question, the handling, preservation, and analysis must be performed in accordance with the latest edition of “Standard Methods for the Examination of Water and Wastewater.” All analyses must be performed using a detection level less than the lowest applicable regulatory discharge limit. If a parameter does not have a limit, then the detection level is defined as the least of the Practical Quantitation Limits identified in NYSDEC’s Analytical Detectability and Quantitation Guidelines for Selected Environmental Parameters, December 1988

- 2 Analysis for ***non-polar materials*** must be done by USEPA method 1664 Rev. A. Non-Polar Material will mean that portion of the oil and grease that is not eliminated from a solution containing N-Hexane, or any other extraction solvent the USEPA will prescribe, by silica gel absorption.
- 3 Analysis for PCBs is required if ***both*** conditions listed below are met:
 - 1) if proposed discharge $\geq 10,000$ gpd;
 - 2) if duration of a discharge > 10 days.Analysis for PCBs must be done by USEPA method 608 with MDL= ≤ 65 ppt. PCB’s (total) is the sum of PCB-1242 (Arochlor 1242), PCB-1254 (Arochlor 1254), PCB-1221 (Arochlor 1221), PCB-1232 (Arochlor 1232), PCB-1248 (Arochlor 1248), PCB-1260 (Arochlor 1260) and PCB-1016 (Arochlor 1016).
- 4 For discharge $\geq 10,000$ gpd, the TSS limit is 350 mg/l. For discharge $< 10,000$ gpd, the limit is determined on a case by case basis.
- 5 Analysis for Carbonaceous Biochemical Oxygen Demand (CBOD), Chloride, Total Solids and Total Nitrogen are required if proposed discharge $\geq 10,000$ gpd.

ATTACHMENT 2: APPLICABLE REGULATIONS

Applicable regulations include, but are not limited to:

1. 49 CFR 100 to 179 - DOT Hazardous Materials Transport and Manifest System Requirements
2. 6 NYCRR 375-6 - NYSDEC Remedial Program Soil Cleanup Objectives
3. 6 NYCRR 360-1 NYSDEC Solid Waste Management Facilities
4. 6 NYCRR 364- Waste Transporter permits
5. Local restrictions on transportation of waste/debris
6. 40 CFR 260 to 272 - Hazardous Waste Management (RCRA)
7. 6 NYCRR 371 - Identification and Listing of Hazardous Wastes
8. 6 NYCRR 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities
9. 6 NYCRR 373-1 - Hazardous Waste Treatment, Storage and Disposal Facility Permitting Requirements
10. 6 NYCRR 376 - Land Disposal Restrictions
11. Posted weight limitations on roads or bridges
12. Transportation Skills Programs, Inc. 1985 - Hazardous Materials and Waste Shipping Papers and Manifests
13. Other local restrictions on transportation of waste/debris
14. Occupational Safety and Health Administration (OSHA), Standards and Regulations, 29 CFR 1910 (General Industry)
15. OSHA 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response
16. OSHA Safety and Health Standards 29 CFR 1926 (Construction Industry)
17. OSHA 29 CFR 1910.146 Confined Space Entry Standard
18. Standard Operating Safety Guidelines, USEPA Office of Emergency and Remedial Response Publication, 9285.1-03
19. NIOSH / OSHA / USCG / USEPA Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities (1986)
20. U.S. Department of Health and Human Services (DHHS) "NIOSH Sampling and Analytical Methods," DHHS (NIOSH) Publication 84-100
21. ANSI, Practice for Respiratory Protection, Z88.2 (1980)
22. ANSI, Emergency Eyewash and Shower Equipment, Z41.1 (1983)
23. ANSI, Protective Footwear, Z358.1 (1981)
24. ANSI, Physical Qualifications for Respirator Use, Z88.6 (1984)
25. ANSI, Practice for Occupational and Educational Eye and Face Protection, Z87.1 (1968)
26. Water Pollution Control Federation "Manual of Practice No. 1, Safety in Wastewater Works"
27. NFPA No. 327 "Standard Procedures for Cleaning and Safeguarding Small Tanks and Containers"
28. Occupational Safety and Health Act Confined Space Entry Standard 29 CFR 1910.146.87

29. Department of Transportation 49 CFR 100 through 179
30. Department of Transportation 49 CFR 387 (46 FR 30974, 47073)
31. Environmental Protection Agency 40 CFR 136 (41 FR 52779)
32. Environmental Protection Agency 40 CFR 262 and 761
33. Resource Conservation and Recovery Act (RCRA)
34. Any transporter of hazardous or non-hazardous materials must be licensed in the State of New York and all other states traversed in accordance with all applicable regulations.

ATTACHMENT 3: DEFINITIONS

Contaminated Groundwater and Decontamination Fluids: Groundwater within the excavation trench or decontamination water that contains regulated compounds above the NYCDEP Discharge to Sewer Effluent limits.

Disposal or Treatment Facility: A facility licensed to accept either non-hazardous regulated waste or hazardous waste for either treatment or disposal.

Exclusion Zone: Work area that will be limited to access by Contractor personnel specifically trained to enter the work area only. The exclusion zone will be set up to secure the area from the public and untrained personnel. The project health and safety program will apply to all construction personnel including persons entering the work area.

Hazard Assessment: An assessment of any physical hazards that may be encountered on a work site.

Hazardous Soils: Soils that exhibit any of the characteristics of a hazardous waste, namely ignitability, corrosivity, reactivity, and toxicity, as defined in 6 NYCRR Part 371, Section 371.3 and 40 CFR Section 261.

Hazardous Substance Evaluation: An evaluation of the possible or known presence of any hazardous substances that may be encountered on a job site. This evaluation is included in the Health and Safety Plan and will include the identification and description of any hazardous substances expected to be encountered. Material Safety Data Sheets (MSDS) will be included for each substance.

Health and Safety Plan: A plan employed at a work site that describes all the measures that will be taken to assure that all work is conducted in a safe manner, and that the health of the workers and the public will be insured.

Material Handling Plan: A plan outlining the methods that will be employed to handle, transport and dispose of contaminated materials.

Non-Hazardous Contaminated Soils: Soils which exhibit a distinct chemical or petroleum odor, or exhibit elevated photoionization detector readings but are not classified as hazardous waste under 6 NYCRR Part 371, Section 371.3 and 40 CFR Section 261.

New York State Health Department's Environmental Laboratory Approval Program: A program by which the state of New York approves and accredits environmental testing laboratories.

PCBs: Polychlorinated biphenyls are a group of toxic compounds commonly used as a coolant in transformers and other electrical components.

Photoionization Detector: A hand held instrument used to measure volatile organic compounds in air. The instrument ionizes the organic molecules through the use of an ultraviolet lamp.

RCRA Hazardous Waste Characteristics: Characteristics of a material which may indicate the material is hazardous. These include: ignitability, corrosivity, reactivity, and toxicity.

Total Petroleum Hydrocarbons: An analytical procedure used to determine the total amount of petroleum compounds in a material.

ATTACHMENT 4: PHASE II SUBSURFACE CORRIDOR INVESTIGATION REPORT

- Final -

Phase II Subsurface Corridor Investigation Report

For

Reconstruction of Schenck Avenue

**Schenck Avenue from Cozine Avenue to Hegeman Avenue and from Pitkin Avenue
to Liberty Avenue, and Belmont Avenue from Schenck Avenue to Barbey Street
Brooklyn, NY**

DDC PROJECT NO. HWK797W

WORK ORDER NO. 15827-LIRO-3-R-15472

CONTRACT REGISTRATION NO. 20181405131

Prepared for:



Office of Environmental and Hazmat Services

30-30 Thomson Avenue, Third Floor

Long Island City, New York 11101

Prepared by:



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PROJECT NO. 17-155-0265

December 31, 2019

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EXECUTIVE SUMMARY

On behalf of the New York City Department of Design and Construction (DDC), LiRo Engineers, Inc. (LiRo) conducted a Phase II Subsurface Corridor Investigation (Phase II SCI) of the HWK797W Corridor located on Schenck Avenue between Cozine Avenue and Hegeman Avenue, Schenck Avenue between Pitkin Avenue and Liberty Avenue, and Belmont Avenue between Schenck Avenue and Barbey Street in the East New York neighborhood of Brooklyn, New York (hereinafter referred to as the “Corridor”) to determine if the Corridor’s environmental condition might impact proposed construction activities. The proposed construction activities for the Corridor consist of excavation for the reconstruction of roadways and sidewalks as well as spot repair work for sewers within the project limits.

The Corridor is approximately 0.73 miles (3,845 feet) long and consists of the following street segments.

Street Segments	Length (feet)
Schenck Avenue from approximately 50 feet north of Liberty Avenue to approximately 50 feet south of Pitkin Avenue	1,045
Belmont Avenue from approximately 30 feet west of Schenck Avenue to approximately 30 feet east of Barbey Street	300
Schenck Avenue from approximately 50 feet north of Hegeman Avenue to Cozine Avenue	2,500

LiRo prepared a Phase I Corridor Assessment Report (CAR) for Schenck Avenue from Cozine Avenue to Stanley Avenue and Pitkin Avenue to Liberty Avenue, dated November 14, 2017, which identified 11 “High” risk site and 67 “Moderate” risk sites that might pose an environmental concern to the subsurface (soil and/or groundwater) of the Corridor and recommended a Phase II SCI.

The proposed depth of excavation for this DDC infrastructure project is estimated to range from 2 feet for roadway/sidewalk work and 10 to 12 feet for sewer spot repairs. Based on the review of available information provided by the DDC and discussions with the DDC Project Manager, LiRo proposed the advancement of four soil borings along the Corridor to characterize soil that may be encountered during construction and to assess the presence of subsurface contamination that might impact proposed construction activities. The Phase II SCI was completed on December 9, 2019 and consisted of the following components:

- The advancement of four borings to terminal depths of 11 feet below grade (ftbg) at SB-01, 12 ftbg at SB-02 and SB-04, and 10 ftbg at SB-03. Field screening of soil samples, including photo-ionization detector (PID) readings and visual and olfactory indicators of contamination (staining, odors);
- The collection of four grab soil samples which were analyzed for United States Environmental Protection Agency (USEPA) Target Compound List (TCL) volatile organic compounds (VOCs);
- The collection of four composite soil samples which were analyzed for: Polycyclic Aromatic Hydrocarbons (PAHs); polychlorinated biphenyls (PCBs); Total Petroleum Hydrocarbon Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO); Resource Conservation and Recovery Act (RCRA) Characteristics; and, Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals;

- No temporary well points (TWPs) were proposed/installed. Therefore, no groundwater samples were collected; and,
- The preparation of this report, which includes tables summarizing the laboratory analytical results and figures depicting boring locations, significant site features and, if applicable, contamination occurrence and distribution.

In order to evaluate the subsurface soil quality, laboratory analytical results were compared with the regulatory standards identified in: (1) New York State Department of Environmental Conservation (NYSDEC) Subpart 375-6: Remedial Program Restricted Use Commercial (Track 2) Soil Cleanup Objectives (SCOs); and/or, (2) Toxicity Characteristic Regulatory Levels for Hazardous Waste published in RCRA and Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 371.

Based on the evaluation of the field screening data and the laboratory analytical results, and a comparison to applicable regulatory standards, the following findings, conclusions, and recommendations are presented:

Findings

- The subsurface soils encountered during this Phase II SCI consisted predominantly of brown to reddish brown fine to medium sand with some gravel from grade to 10 to 12 ftbg. Man-made materials, which are indicative of urban fill, was encountered within one soil boring (SB-04) from grade to 12 ftbg. Groundwater was not encountered within any of the four borings. Bedrock was not encountered during the Phase II SCI.
- Field screening (i.e., PID readings and visual and olfactory observations) did not identify impacted soils within the Corridor.
- One VOC, acetone, was detected in two of the four grab samples collected (SB-02-11.5-12 and SB-04-11.5-12) at concentrations below the Part 375 Restricted Use – Commercial SCO. Acetone is a common laboratory cross contaminant and is most likely not representative of subsurface conditions.
- PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i) perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected within one composite sample (SB-04-COMP) at concentrations below their corresponding Restricted Use – Commercial SCOs. The detected PAHs may be attributed to: (a) residuals from isolated releases in the area of the Corridor; and/or, (b) the presence of urban fill material placed at the Corridor.
- PCBs were not detected in any of the four composite samples collected.
- TCLP RCRA metals were not detected at concentrations exceeding RCRA limits in the four waste characterization soil samples collected. Ignitability (flash point), reactivity (cyanide and sulfide), and corrosivity (pH) were within the acceptable RCRA ranges in the four composite samples collected.
- TPHC-DRO were detected in all four composite samples at concentrations ranging from approximately 2.56 milligrams per kilograms (mg/kg) within SB-01-COMP to 10.3 mg/kg within

SB-04-COMP. TPHC-GRO were not detected in any of the four samples collected. There are no regulatory standards for TPHC-DRO and TPHC-GRO. Analytical results will need to be compared to levels acceptable by the chosen receiving facility to determine appropriate waste characterization prior to off-site disposal.

Conclusions

- Field screening (i.e., PID readings and visual and olfactory observations) did not identify any petroleum-impacted soils within the Corridor;
- Laboratory analytical results did not identify sampled parameters exceeding the NYSDEC Restricted Use Commercial SCOs in the grab or composite samples collected;
- The subsurface soil samples collected from the Corridor did not exhibit hazardous waste characteristics;
- TPHC-DRO was detected in all four composite soil samples. There are no standards for TPHC-DRO; and,
- Since groundwater was not encountered within any of the four borings, no groundwater samples were collected.

Recommendations

- The Contract documents should identify provisions and a contingency for managing, handling, transporting and disposing of non-hazardous TPHC-DRO contaminated soil, in case it is encountered at the Site. The Contractor should submit a Material Handling Plan to identify the specific protocols and procedures that will be employed to manage potentially contaminated waste, if encountered, during construction, in accordance with applicable regulations;
- Due to the presence of TPHC-DRO in the investigated sites, especially if contaminated or hazardous soil is encountered, to minimize the creation and dispersion of fugitive airborne dust, the Contractor should implement dust control measures to minimize potential airborne contaminants released as a direct result of construction activities. A Community Air Monitoring Plan (CAMP) shall be developed in accordance with NYSDEC DER-10 Regulations. The CAMP requires real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is intended to provide a measure of protection for the downwind community from potential airborne contaminant releases as a direct result of investigative and remedial work activities;
- Should dewatering become necessary during construction activities within the Corridor, the Contractor will be required to obtain a New York City Department of Environmental Protection (NYCDEP) sewer discharge permit. Additional sampling and laboratory analysis may be required to satisfy NYCDEP requirements prior to discharge into the NYCDEP sewer system;
- If discharge into storm sewers is required during dewatering, it may be done under the appropriate NYSDEC State Pollutant Discharge Elimination System (SPDES) permit. Additional

sampling and laboratory analysis may be required to satisfy NYSDEC requirements prior to discharge into storm sewers; and,

- Before beginning any excavation activity, the Contractor should submit a Corridor-specific health and safety plan (HASP) that will meet the requirements set forth by the Occupational, Safety and Health Administration (OSHA), the New York State Department of Health (NYSDOH) and any other applicable regulations. The HASP should identify the possible locations and risks associated with the potential contaminants that may be encountered, and the administrative and engineering controls that will be utilized to mitigate concerns (i.e., dust control procedures for TPHC-DRO).

1.0 INTRODUCTION

On behalf of the New York City Department of Design and Construction (DDC), LiRo Engineers, Inc. (LiRo) conducted a Phase II Subsurface Corridor Investigation (Phase II SCI) of the HWK797W Corridor located on Schenck Avenue between Cozine Avenue and Hegeman Avenue, Schenck Avenue between Pitkin Avenue and Liberty Avenue, and Belmont Avenue between Schenck Avenue and Barbey Street in the East New York neighborhood of Brooklyn, New York (hereinafter referred to as the “Corridor”) to determine if the Corridor’s environmental condition might impact proposed construction activities. The proposed construction activities for the Corridor consist of excavation for the reconstruction of roadways and sidewalks as well as for spot repair work for sewers within the project limits.

The Corridor is approximately 0.73 mile (3,845 feet) long and consists of the following street segments.

Street Segments	Length (feet)
Schenck Avenue from approximately 50 feet north of Liberty Avenue to approximately 50 feet south of Pitkin Avenue	1,045
Belmont Avenue from approximately 30 feet west of Schenck Avenue to approximately 30 feet east of Barbey Street	300
Schenck Avenue from approximately 50 feet north of Hegeman Avenue to Cozine Avenue	2,500

1.1 Summary of Previous Environmental Investigations

LiRo prepared a Phase I Corridor Assessment Report (Phase I CAR) for Schenck Avenue from Cozine Avenue to Stanley Avenue and Pitkin Avenue to Liberty Avenue dated November 14, 2017, which identified 11 sites that had a Final “High” risk and 67 sites that had a Final “Moderate” risk that might impact the subsurface of the Corridor and recommended advancing borings, installing temporary well points (TWPs), and collecting soil and groundwater samples to assess potential impacts.

HIGH RISK SITES

Risk Site No.	Facility Name	Address	Map ID
1	Vacant lot (former gas station with one gas tank)	580 Glenmore Avenue and 276 Schenck Avenue	H1
2	U-Haul, Flat Fix, parking lot, and NY E Designation – Ph. I/Ph. II Site (former auto repair shop and junk storage)	2275 Pitkin Avenue	H2
3	Liberty Income Tax, First Class Physical Therapy, and Medical Center (former Fantasy Cleaners)	693 Stanley Avenue	H3
4	NYCHA Linden Boulevard Steam Plant, UST Site, AST Site, and Open Spill Site	678-700 Stanley Avenue and 838 Schenck Avenue	H4

HIGH RISK SITES (continued)

Risk Site No.	Facility Name	Address	Map ID
5	Vacant Lot (former gas station with one gas tank)	576 Glenmore Avenue	H5
6	Willie Windshields Auto Glass and NY E Designation – Ph. I/Ph. II Site (former machine shop and auto repair shop)	251-257 Hendrix Street	H6
7	Auto Repair P&D and NY E Designation – Ph. I/Ph. II Site (former auto body manufacturing, woodworking shop with one gas tank, and iron bailing factory)	194-198 Schenck Avenue	H7
8	Real Plastic Corporation main factory and warehouse, Aboveground Storage Tank (AST) Site, Open Spill Site, and NY E Designation - Ph. I/Ph. II Site (former Empire State Dairy Corp. and Borden Farm Products Co., Inc. with one gas tank)	2840-2862 Atlantic Avenue, 181-207 Schenck Avenue, and 250-270 Barbey Street	H8
9	Mobil Gas Station and NY E Designation – Ph. I/Ph. II Site	2816-2828 Atlantic Avenue and 231-243 Hendrix Avenue	H9
10	Speedway Gas Station, NY E Designation – Ph. I/Ph. II Site, and Open Spill Site (former garage with two gas tanks)	2864-2880 Atlantic Avenue	H10
11	Beer distributor and sales and NY E Designation – Ph. I/Ph. II Site (former garage with two gas tanks and auto repair shop)	2839-2845 Atlantic Avenue and 165-179 Schenck Avenue	H11

MODERATE RISK SITES

Risk Site No.	Facility Name	Address	Map ID
1	Full Faith Christian Center, woodworking shop, and NY E Designation – Ph. I/Ph. II Site	555 Liberty Avenue	M1
2	Benji Transmission Auto Repair and NY E Designation – Ph. I/Ph. II Site	559 Liberty Avenue	M2
3	Residential building (former auto repair shop)	237 Schenck Avenue	M3
4	Vacant Lot (former iron works facility)	240 Schenck Avenue	M4

MODERATE RISK SITES (continued)

Risk Site No.	Facility Name	Address	Map ID
5	Residential building (former manufacturing facility)	581 Glenmore Avenue	M5
6	Vacant Lot and NY E Designation – Ph. I/Ph. II Site	Schenck Avenue (Block 3996, Lot 39)	M6
7	Residential building and NY E Designation – Ph. I/Ph. II Site	2271 Pitkin Avenue	M7
8	Residential building and NY E Designation – Ph. I/Ph. II Site	2267 Pitkin Avenue	M8
9	Residential building and NY E Designation – Ph. I/Ph. II Site (former paint shop)	2265 Pitkin Avenue	M9
10	U-Haul parking lot and NY E Designation – Ph. I/Ph. II Site (former manufacturing facility)	2279 Pitkin Avenue	M10
11	Service Center General Auto Repairs (former manufacturing facility)	550 Liberty Avenue	M11
12	Classic Iron Works and NY E Designation – Ph. I/Ph. II Site	565 Liberty Avenue	M12
13	Junk Yard and NY E Designation – Ph. I/Ph. II Site	215 Schenck Avenue	M13
14	Residential building and NY E Designation – Ph. I/Ph. II Site	2263 Pitkin Avenue	M14
15	Atlantic Appliances Sales and Service and NY E Designation – Ph. I/Ph. II Site (former auto body shop)	2281-2283 Pitkin Avenue	M15
16	House and NY E Designation – Ph. I/Ph. II Site	569 Liberty Avenue	M16
17	Junk Yard and NY E Designation – Ph. I/Ph. II Site	213 Schenck Avenue	M17
18	El Chamo Electric, Inc. (former auto repair shop)	545 Liberty Avenue	M18
19	Art and Carpentry and NY E Designation – Ph. I/Ph. II Site (former iron works facility and dry cleaners)	570 Liberty Avenue	M19
20	SC Auto Collision, Inc.	322-332 Barbey Street	M20
21	Residential building (former manufacturing facility)	565 Glenmore Avenue	M21
22	Tri-State Decking, Inc. and Fausto Auto Repair	594 Glenmore Avenue	M22

MODERATE RISK SITES (continued)

Risk Site No.	Facility Name	Address	Map ID
23	House and NY E Designation – Ph. I/Ph. II Site	2285 Pitkin Avenue	M23
24	City Fresh Market and Lily’s Cleaners	655-663 Stanley Avenue	M24
25	Noah Auto Repair, Inc. and Lion of Judas Church of God (former oil furnace service)	579-581 Liberty Avenue	M25
26	Abandoned house and NY E Designation – Ph. I/Ph. II Site	280 Barbey Street	M26
27	Festac Ultra Lounge, Da Liquor Store, and residential (former auto repair shop)	263-273 Hendrix Street	M27
28	Iron works warehouse and NY E Designation – Ph. I/Ph. II Site (former auto repair shop)	540 Liberty Avenue	M28
29	Fountain of Life Prayer Ministries International and NY E Designation – Ph. I/Ph. II Site (former manufacturing facility)	546 Liberty Avenue	M29
30	Residential/commercial building with Granssiely Grocery and NY E Designation – Ph. I/Ph. II Site (former auto repair shop)	536 Liberty Avenue	M30
31	Eddy’s Iron Works and NY E Designation – Ph. I/Ph. II Site (former manufacturing facility)	576 Liberty Avenue	M31
32	Joyful Noise Ministry (former auto junkyard)	2295 Pitkin Avenue	M32
33	Garage and NY E Designation – Ph. I/Ph. II Site (former manufacturing facility)	211 Schenck Avenue	M33
34	Marble storage yard and NY E Designation – Ph. I/Ph. II Site	278 Barbey Street	M34
35	Vacant lot and NY E Designation – Ph. I/Ph. II Site (former Borden Farm Products with one gas tank)	Schenck Avenue (Block 3964, Lot 4)	M35
36	Junkyard and NY E Designation – Ph. I/Ph. II Site	276 Barbey Street	M36
37	Unoccupied commercial building and Dollar Tree Store (former dry cleaners)	825 Van Siclen Avenue	M37

MODERATE RISK SITES (continued)

Risk Site No.	Facility Name	Address	Map ID
38	Warehouse, parking lot, and NY E Designation – Ph. I/Ph. II Site	583 Liberty Avenue	M38
39	Residential building and UST Site (former auto repair shop and gas station)	584-600 Liberty Avenue	M39
40	La Questa Restaurant and NY E Designation – Ph. I/Ph. II Site (former auto repair shop)	578-582 Liberty Avenue and 300-310 Barbey Street	M40
41	Oscar G. Iron Works and NY E Designation – Ph. I/Ph. II Site	597 Liberty Avenue	M41
42	Residential building and NY E Designation – Ph. I/Ph. II Site	599 Liberty Avenue	M42
43	House and NY E Designation – Ph. I/Ph. II Site	277 Barbey Street	M43
44	House and NY E Designation – Ph. I/Ph. II Site	273 Barbey Street	M44
45	Residential building and NY E Designation – Ph. I/Ph. II Site (former manufacturing facility)	274 Barbey Street	M45
46	Parking lot (former auto repair shop)	837-841 Hendrix Street	M46
47	Yard and NY E Designation – Ph. I/Ph. II Site	Barbey Street (Block 3964, Lot 23)	M47
48	Holy House of Prayer Church, Inc. and NY E Designation – Ph. I/Ph. II Site	2245 Pitkin Avenue	M48
49	Residential building and NY E Designation – Ph. I/Ph. II Site	269 Barbey Street	M49
50	House and NY E Designation – Ph. I/Ph. II Site	267 Barbey Street	M50
51	Vacant lot and NY E Designation – Ph. I/Ph. II Site	207 Van Siclen Avenue	M51
52	Parking lot and NY E Designation – Ph. I/Ph. II Site and (former auto repair shop and gas station)	523 Liberty Avenue	M52
53	Mr. Lucky Rental Hall and NY E Designation – Ph. I/Ph. II Site	533 Liberty Avenue	M53
54	Residential building and NY E Designation – Ph. I/Ph. II Site	517 Liberty Avenue	M54
55	McDonald's Restaurant, parking lot, and NY E Designation – Ph. I/Ph. II Site (former coal yard)	2800 Atlantic Avenue and 236 Hendrix Street	M55

MODERATE RISK SITES (continued)

Risk Site No.	Facility Name	Address	Map ID
56	Parking lot and NY E Designation – Ph. I/Ph. II Site	183 Van Siclen Avenue	M56
57	Commercial building (former auto repair shop)	247-249 Hendrix Street	M57
58	Lincoln Auto Car Transmission and NY E Designation – Ph. I/Ph. II Site (former auto paint shop)	2838 Atlantic Avenue and 192 Schenck Avenue	M58
59	Parking lot and NY E Designation – Ph. I/Ph. II Site	2836 Atlantic Avenue	M59
60	JL Tire Shop and NY E Designation – Ph. I/Ph. II Site	2834 Atlantic Avenue	M60
61	Residential/commercial building with May See's Store (former print shop)	2835 Atlantic Avenue	M61
62	Residential/commercial building with AL Ryan Group Organic Sales (former printing shop)	2829-2833 Atlantic Avenue	M62
63	Residential/commercial building with Valer Upholstery (former manufacturing facility and tire service center)	2827 Atlantic Avenue	M63
64	Residential building (former auto repair shop)	168 Schenck Avenue	M64
65	New York Kar Store parking lot (former used car sales)	2861 Atlantic Avenue and 238-246 Barbey Street	M65
66	St. Malachy's School and Child Development Center, NY E Designation – Ph. I/Ph. II Site, and UST Site	220-230 Hendrix Street	M66
67	St. Malachy's School Playground and NY E Designation – Ph. I/Ph. II Site	133 Van Siclen Avenue	M67

An underground subway is present beneath Pitkin Avenue.

1.2 Scope of Work

The Phase II SCI consisted of a field investigation, laboratory analyses, and the preparation of this report, which includes tables summarizing the laboratory analytical results and figures depicting boring locations, significant site features and, if applicable, contamination occurrence and distribution. Drilling activities for the field investigation were performed by Associated Environmental Services, Limited (AES) of Hauppauge, New York. Oversight of drilling activities was performed by Eva Jakubowska of LiRo. Laboratory analyses were provided by Chemtech of Mountainside, New Jersey, a NYS Department of Health (NYSDOH) approved laboratory (No. 11376). Field derived Quality Assurance/Quality Control (QA/QC) samples (i.e., field blanks, trip blanks, duplicates) were not collected for this project. The field investigation was conducted on December 9, 2019, and consisted of the following components.

- The advancement of four borings to terminal depths of 11 feet below grade (ftbg) at SB-01, 12 ftbg at SB-02 and SB-04, and 10 ftbg at SB-03.

- The borings were advanced using a GeoProbe direct push drill rig. Prior to direct push advancement, borings were cleared to a depth of 6 feet using a hand auger and air knife. Soil samples were collected using 5-foot long, 2-inch diameter Macro Core stainless steel samplers equipped with polyvinyl chloride (PVC) liners. In addition, a Health and Safety Plan was prepared prior to commencing field work.
- Field screening, classification, and identification of soils was conducted from the ground surface to the bottom of each boring. Soil samples were visually classified in the field using the Unified Soil Classification System (USCS). Field screening consisted of visual and olfactory indicators of impacts as well as screening with a photoionization detector (PID).
- The collection of one composite and one grab sample from each of the four soil boring locations (SB-01 through SB-04). The composite samples were comprised of soil from the entire boring column. The grab samples were collected from the bottom 6-inch interval in each boring.
- Laboratory analysis of the composite samples for: (1) Polycyclic Aromatic Hydrocarbons (PAHs) via United States Environmental Protection Agency (USEPA) Method 8270D; (2) Polychlorinated Biphenyls (PCBs) via USEPA Method 3550B/8082; (3) Total Petroleum Hydrocarbon Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO) via USEPA Method 8015B; (4) Resource Conservation and Recovery Act (RCRA) Characteristics via USEPA SW-846; and, (5) Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals via USEPA SW-846.
- Laboratory analysis of the grab samples for Target Compound List (TCL) volatile organic compounds (VOCs) by USEPA Method 8260C.
- Groundwater was not encountered within any of the four borings. Therefore, no groundwater samples were collected.

2.0 CORRIDOR INFORMATION

2.1 Corridor Location, Description and Use

The Corridor is approximately 0.73 miles (3,845 feet) long and is located in the East New York section of the Borough of Brooklyn, New York. The Corridor consists of Schenck Avenue between Cozine Avenue and Hegeman Avenue, Schenck Avenue between Pitkin Avenue and Liberty Avenue, and Belmont Avenue between Schenck Avenue and Barbey Street.

Currently, the Corridor areas are developed with paved roadways and existing infrastructure systems, and exhibit evidence of utilities, such as manholes, pavement scars, utility mark-outs, and valve covers throughout the roadways and sidewalk areas. Overhead utility lines are present throughout portions of the Corridor areas. Adjoining property usage consists primarily of residential and commercial operations. At the time of the Phase I CAR, properties of potential environmental concern identified along the northern Corridor area include an automobile repair facility, while a steam generating plant was noted along the southern Corridor area. A map of the Corridor area is presented as Figures 2A/2B.

2.2 Description of Surrounding Properties

At the time of the Phase I CAR, surrounding property usage consisted primarily of residences with a few commercial operations. Operations of potential environmental concern noted surrounding the northern Corridor area include a junk yard, gas stations, auto repair facilities, iron works, and a dry cleaning operation surrounding the southern Corridor area.

2.3 Corridor and Regional Topographic Setting

LiRo reviewed the United States Geologic Survey (USGS) 7.5-minute Topographic Quadrangle Maps for Brooklyn, NY (2018) to determine the topography at the Corridor. The northern Corridor segment exhibits a topographic elevation change of approximately 8 feet. The elevation of the northern Corridor segment varies from approximately 33 feet above mean sea level (msl) at Schenck Avenue and Pitkin Avenue to approximately 41 feet above msl Schenck Avenue and Liberty Avenue. The elevation of the central Corridor segment is fairly consistent at approximately 30 feet above msl along Belmont Avenue between Schenck Avenue and Barbey Street. The southern Corridor segment exhibits a topographic elevation change of approximately 5 feet. The elevation of the southern Corridor segment varies from approximately 9 feet above msl at Schenck Avenue and Cozine Avenue to approximately 14 feet above msl Schenck Avenue and Hegeman Avenue. Under natural conditions, surface runoff at the Corridor would be expected to follow the topography, which slopes south toward Jamaica Bay.

2.4 Corridor and Regional Geology

Based on the *Geologic Map of New York State (Lower Hudson Sheet, dated 1970)*, the Corridor areas are located within coastal plain deposits which include the Monmouth Group, Matawan Group, and Magothy Formation. These deposits consist of silty clay, glauconitic sandy clay, sand, and gravel and range in thickness from 0 to 2,000 feet.

Based on the *Surficial Geologic Map of New York State (Lower Hudson Sheet, dated 1989)*, the Corridor areas' local geology is expected to consist of outwash sand and gravel including coarse to fine gravel with

sand. These deposits are typically well rounded and stratified with finer texture further from the historic ice border. The thickness of these deposits is variable from 6 to 66 feet.

The Corridor areas are located within the southern portion of the Wisconsin glaciation of the New York/New England region and in the Atlantic Coastal Plain Physiographic Province.

The subsurface soils encountered during this Phase II SCI consisted predominantly of brown to reddish brown fine to medium sand with some gravel from grade to 10 to 12 ftbg. Man-made materials, which are indicative of urban fill, was encountered within one soil boring (SB-04) from grade to 12 ftbg. Groundwater was not encountered within any of the on-site borings. Bedrock was not encountered during the Phase II SCI.

2.5 Corridor and Regional Hydrogeology

According to the *Groundwater Map of Long Island, dated 2009*, groundwater is anticipated to be present at depths ranging from approximately 20 ftbg in the northern Corridor area to approximately 10 ftbg in the southern Corridor area. The nearest surface water body is Hendrix Creek, which discharges into Jamaica Bay and is located 925 feet to the south of the southern Corridor area. Based on the location and proximity of Hendrix Creek and Jamaica Bay relative to the Corridor, groundwater is anticipated to flow southeast. Groundwater can also be influenced by tidal influence, seasonal fluctuations in precipitation, local variations in geology, underground anthropogenic structures, and/or local dewatering operations.

The first unconfined aquifer encountered is the upper glacial aquifer. The depth to the water table varies, but generally follows topography. Generally, groundwater flow follows topographic elevation of the area with flow migrating from higher to lower elevations.

During this Phase II SCI, groundwater was not encountered within the four soil borings, which were advanced to depths ranging from 10 to 12 ftbg.

According to the *United States Fish and Wildlife Service* and the *New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper*, the Corridor areas do not fall within mapped wetlands. The nearest national wetland is Hendrix Creek, identified as E1UBL (estuarine and marine deepwater wetland) and located approximately located 925 feet to the south of the southern Corridor area. The nearest mapped state wetland is located approximately 4.1 miles northeast of the northern Corridor area).

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) were accessed from the FEMA website. One map panel (Panel #3604970217F, revision 9/5/2007) shows that the Corridor areas are located in Flood Zone X, an area of minimal flood hazard for a 500-year flood.

3.0 CORRIDOR EVALUATION

LiRo provided oversight for the advancement of four soil borings and the collection of soil samples during the field investigation at the designated areas in the vicinity of the planned construction. The soil samples from the borings were transferred into laboratory supplied sample jars, properly labeled, and stored in a cooler with ice to preserve the samples at 4° Celsius prior to and during shipment. A chain-of-custody was prepared prior to sample shipment. A summary of the field observations, and the details of the soil borings, is provided in Table 1.

3.1 Soil Quality Investigation

Four borings (SB-01 through SB-04) were advanced to terminal depths of 11 ftbg at SB-01, 12 ftbg at SB-02 and SB-04, and 10 ftbg at SB-03 using a GeoProbe direct push drill rig. Prior to direct push advancement, borings were cleared to a depth of 6 ftbg using a hand auger and air knife. Soil samples were collected using 5-foot long, 2-inch diameter Macro Core stainless steel sampler equipped with polyvinyl chloride (PVC) liners. Soil boring locations are shown on Figures 2A/2B. The designations and sampling intervals for the samples that were submitted to the laboratory are included in Table 1. Maps depicting each boring location are included in Appendix A1/A2. Boring logs are provided in Appendix B. The locations of each boring are described below:

- **SB-01** – Advanced on the north sidewalk along Glenmore Avenue, 14 feet north of the north curb line of Glenmore Avenue and 9 feet west of the west curb line of Schenck Avenue.
- **SB-02** – Advanced on the north sidewalk along Belmont Avenue, 103 feet west of the west curb line of Barbey Street and 4 feet north of the north curb line of Belmont Avenue.
- **SB-03** – Advanced in a grass area on west sidewalk of Schenck Avenue, 23 feet south of the south curb line of Linden Boulevard and 2 feet west of the west curb line of Schenck Avenue.
- **SB-04** – Advanced on the west sidewalk along Schenck Avenue, 212 feet south of the south curb line of Wortman Avenue and 4 feet west of the west curb line of Schenck Avenue.

Soil from each boring was classified and examined for visual evidence (i.e., staining, discoloration) and any olfactory indications (i.e., odors) of contamination. Continuous soil samples were collected from each of the borings at 5-foot intervals. In addition, a PID was used to screen the soil for VOC vapors. All re-useable sampling equipment was decontaminated using a deionized water and Alconox soap wash and then rinsed with deionized water.

In order to identify representative conditions relative to the presence of PAHs, PCBs, TPHC DRO/GRO, RCRA Characteristics, and TCLP RCRA metals over the entire soil column in each boring, composite soil samples were collected by mixing the soil from the entire column in a stainless steel bowl. Boring composite samples were collected from all four soil borings.

In order to identify representative conditions relative to the presence of VOCs, grab soil samples were collected from the bottom 6-inch interval in all four soil borings.

3.2 Groundwater Quality Investigation

Since groundwater was not encountered, no TWP's were installed. Therefore, no groundwater samples were collected

3.3 Laboratory Analyses

The soil samples were submitted to Chemtech, a NYSDOH approved laboratory (No. 11376). Field derived Quality Assurance/Quality Control (QA/QC) samples (i.e., field blank, trip blank, duplicate) were not collected for this project. Laboratory analytical reports are included in Appendix C.

The grab soil samples were analyzed for USEPA TCL volatile organic VOCs by Method 8260C. The boring composite soil samples were analyzed for: (1) PAHs via USEPA Method 8270D; (2) PCBs via USEPA Method 3550B/8082; (3) TPHC DRO/GRO via USEPA Method 8015B; (4) RCRA Characteristics via USEPA SW-846; and, (5) TCLP RCRA Metals via USEPA SW-846.

3.4 Data Evaluation

In order to evaluate the subsurface soil quality, the laboratory analytical results of the grab and composite soil samples were compared with the regulatory standards identified in: (1) NYSDEC Subpart 375-6: Remedial Program Restricted Use Commercial (Track 2) Soil Cleanup Objectives (SCOs); and/or, (2) Toxicity Characteristic Regulatory Levels for Hazardous Waste published in RCRA and Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 371.

4.0 FINDINGS

This section discusses the analytical data and findings for the activities discussed in Section 3.0.

4.1 Field Screening

Field screening (i.e., PID readings and visual and olfactory observations) did not identify impacted soils within the Corridor. Refer to Table 1 for a summary of environmental boring data.

4.2 Soil and Groundwater Laboratory Analytical Results

4.2.1 Volatile Organic Compounds (VOCs) in Soil

One VOC, acetone, was detected in two of the four grab samples collected. Acetone was detected at concentrations below the Part 375 Restricted Use – Commercial SCOs in grab samples SB-02-11.5-12 and SB-04-11.5-12. Acetone is a common laboratory cross contaminant and is most likely not representative of subsurface conditions. Refer to Table 2 for a summary of TCL VOC detections.

4.2.2 Polycyclic Aromatic Hydrocarbons (PAHs) in Soil

PAHs were detected in one of the four composite samples collected. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected at concentrations below their corresponding Restricted Use – Commercial SCOs in only one composite sample SB-04-COMP. The detected PAHs may be attributed to: (a) residuals from isolated releases in the area of the Corridor; and/or, (b) the presence of urban fill material placed at the Corridor. Refer to Table 3 for a summary of PAH detections.

4.2.3 Polychlorinated Biphenyls (PCBs) in Soil

PCBs were not detected in any of the four composite samples collected. Refer to Table 4.

4.2.4 Toxicity Characteristic Leaching Procedure (TCLP) Resource Conservation and Recovery Act (RCRA) Metals in Soil

TCLP RCRA metals were detected in all four composite samples collected. Barium, cadmium, chromium, lead, mercury, selenium, and/or silver were detected below their corresponding 6 NYCRR Part 371 and RCRA standards. Based on their consistency, most of the detected concentrations are attributed to background levels. Refer to Table 5 for a summary of TCLP RCRA metals detections.

4.2.5 Waste Characterization of Soil

Ignitability (flash point), reactivity (cyanide and sulfide), and corrosivity (pH) were within the acceptable RCRA ranges. TPHC-DRO were detected in all four composite samples at concentrations ranging from approximately 2.56 milligrams per kilograms (mg/kg) within SB-01-COMP to 10.3 mg/kg within SB-04-COMP. TPHC-GRO were not detected in any of the four samples collected. There are no regulatory standards for TPHC-DRO and TPHC-GRO. Analytical results will need to be compared to levels acceptable by the chosen receiving facility to determine appropriate waste characterization prior to off-site disposal. Refer to Table 5 for a summary of TCLP parameters, RCRA Characteristics, and TPHC DRO/GRO results.

4.2.6 Analysis of NYCDEP Parameters in Groundwater

Since groundwater was not encountered, no TWPs were installed. Therefore, no groundwater samples were collected.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the evaluation of the field screening data, the laboratory analytical results, and a comparison to applicable regulatory standards, the following conclusions and recommendations are presented:

Conclusions

- Field screening (i.e., PID readings and visual and olfactory observations) did not identify any petroleum-impacted soils within the Corridor;
- Laboratory analytical results did not identify sampled parameters exceeding the NYSDEC Restricted Use Commercial SCOs in the grab or composite samples collected;
- The subsurface soil samples collected from the Corridor did not exhibit hazardous waste characteristics;
- TPHC-DRO was detected in all four composite soil samples. There are no standards for TPHC-DRO; and,
- Since groundwater was not encountered, no groundwater samples were collected.

Recommendations

- The Contract documents should identify provisions and a contingency for managing, handling, transporting and disposing of non-hazardous TPHC-DRO contaminated soil, in case it is encountered at the Site. The Contractor should submit a Material Handling Plan to identify the specific protocols and procedures that will be employed to manage potentially contaminated waste, if encountered, during construction, in accordance with applicable regulations;
- Due to the presence of TPHC-DRO in the investigated areas, especially if contaminated or hazardous soil is encountered, the Contractor should implement dust control measures to minimize potential airborne contaminants released as a direct result of construction activities. A Community Air Monitoring Plan (CAMP) shall be developed in accordance with NYSDEC DER-10 Regulations. The CAMP requires real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is intended to provide a measure of protection for the downwind community from potential airborne contaminant releases as a direct result of investigative and remedial work activities;
- Should dewatering become necessary during construction activities within the Corridor, the Contractor will be required to obtain a New York City Department of Design and Construction (NYCDEP) sewer discharge permit. Additional sampling and laboratory analysis may be required to satisfy NYCDEP requirements prior to discharge into the NYCDEP sewer system;

-
- If discharge into storm sewers is required during dewatering, it may be done under the appropriate NYSDEC State Pollutant Discharge Elimination System (SPDES) permit. Additional sampling and laboratory analysis may be required to satisfy NYSDEC requirements prior to discharge into storm sewers; and,
 - Before beginning any excavation activity, the Contractor should submit a Corridor-specific health and safety plan (HASP) that will meet the requirements set forth by the Occupational, Safety and Health Administration (OSHA), the New York State Department of Health (NYSDOH) and any other applicable regulations. The HASP should identify the possible locations and risks associated with the potential contaminants that may be encountered, and the administrative and engineering controls that will be utilized to mitigate concerns (i.e., dust control procedures for TPHC-DRO).

6.0 STATEMENT OF LIMITATIONS

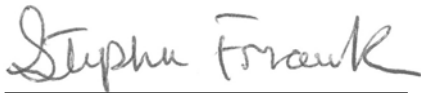
The data presented and the opinions expressed in this report are qualified as stated in the attachment to this section of the report.

Report Prepared By:



Amy Hewson
Senior Environmental Analyst

Report Reviewed By:



Stephen Frank
Senior Geologist

Report Reviewed By:



Robert Kreuzer
Project Manager

STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

The sole purpose of the investigation and of this report is to assess the physical characteristics of the Corridor with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Corridor.

LiRo derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Corridor, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Corridor, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

In preparing this report, LiRo has relied upon and presumed accurate certain information (or the absence thereof) about the Corridor and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, LiRo has not attempted to verify the accuracy or completeness of any such information.

The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Corridor.

Because of the limitations stated above, the findings, observations, and conclusions expressed by LiRo in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the Corridor with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon Corridor conditions in existence at the time of investigation.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

TABLES

TABLE 1 – SUMMARY OF ENVIRONMENTAL BORING DATA

TABLE 2 – SUMMARY OF TCL VOCs DETECTED IN SOIL

TABLE 3 – SUMMARY OF PAHs DETECTED IN SOIL

TABLE 4 – SUMMARY OF PCBs DETECTED IN SOIL

TABLE 5 – SUMMARY OF WASTE CHARACTERIZATION IN SOIL

Table 1. Summary of Environmental Boring Data

Boring No.	Sample ID	PID (ppm)	Sample Interval (ftbg)	Total VOCs (ug/kg)	Total PAHs (ug/kg)	Total PCBs (ug/kg)	Depth to Water (ftbg)	Total Depth (ftbg)	Other Comments
SB-01	SB-01-10.5-11	0.0	10.5 - 11.0	ND	NA	NA	Not encountered	11.0	No petroleum odors, visual evidence or impact, or elevated PID readings were detected.
	SB-01-COMP		0.5 - 11.0	NA	ND	ND			
SB-02	SB-02-11.5-12	0.0	11.5 - 12.0	11	NA	NA	Not encountered	12.0	No petroleum odors, visual evidence or impact, or elevated PID readings were detected.
	SB-02-COMP		0.0 - 12.0	NA	ND	ND			
SB-03	SB-03-9.5-10	0.0	9.5 - 10.0	ND	NA	NA	Not encountered	10.0	No petroleum odors, visual evidence or impact, or elevated PID readings were detected.
	SB-03-COMP		0.0 - 10.0	NA	ND	ND			
SB-04	SB-04-11.5-12	0.0	11.5 - 12.0	16	NA	NA	Not encountered	12.0	No petroleum odors, visual evidence or impact, or elevated PID readings were detected.
	SB-04-COMP		0.3 - 12.0	NA	1,173	ND			

Notes:

All grab samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs). All composite soil samples were analyzed for Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbon (TPHC) Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO), Resource Conservation and Recovery Act (RCRA) Characteristics, and Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals.

NA = Not Analyzed/Not Applicable

ND = Not detected

ftbg = feet below grade surface

ppm = parts per million (or mg/kg)

ug/kg = microgram per kilogram

Table 2. Summary of Target Compound List (TCL) Volatile Organic Compounds (VOCs) Detected in Soil

TCL VOC	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth (ftbg)			
		SB-01-10.5-11	SB-02-11.5-12	SB-03-9.5-10	SB-04-11.5-12
		12/9/2019	12/9/2019	12/9/2019	12/9/2019
		10.5 - 11.0	11.5 - 12.0	9.5 - 10.0	11.5 - 12.0
Acetone	500,000	ND	11 J	ND	16 J
Total VOCs	NS	ND	11	ND	16

Notes:

All concentrations are reported in parts per billion (ppb or ug/kg)

ftbg = feet below grade surface

NS = No Standard

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

J = Estimated value

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).

Table 3. Summary of Polycyclic Aromatic Hydrocarbons (PAHs) Detected in Soil

PAHs	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth (ftbg)			
		SB-01-COMP	SB-02-COMP	SB-03-COMP	SB-04-COMP
		12/9/2019	12/9/2019	12/9/2019	12/9/2019
		0.5 - 11.0	0.0 - 12.0	0.0 - 10.0	0.3 - 12.0
Benzo(a)anthracene	5,600	ND	ND	ND	120 J
Benzo(a)pyrene	1,000	ND	ND	ND	150 J
Benzo(b)fluoranthene	5,600	ND	ND	ND	190 J
Benzo(g,h,i)perylene	500,000	ND	ND	ND	110 J
Chrysene	56,000	ND	ND	ND	120 J
Flouranthene	500,000	ND	ND	ND	160 J
Indeno(1,2,3-cd)pyrene	5,600	ND	ND	ND	88 J
Phenanthrene	500,000	ND	ND	ND	85 J
Pyrene	500,000	ND	ND	ND	150 J
Total PAHs	NS	ND	ND	ND	1,173

Notes:

All concentrations are reported in parts per billion (ppb or ug/kg)

ftbg = feet below grade surface

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

NS = No Standard

J = Estimated value

PAHs = Polycyclic Aromatic Hydrocarbons

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).

Table 4. Summary of Polychlorinated Biphenyls (PCBs) Detected in Soil

PCBs	Part 375-6.8 (b) Restricted Use (Track 2) Commercial Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth (ftbg)			
		SB-01-COMP	SB-02-COMP	SB-03-COMP	SB-04-COMP
		12/9/2019	12/9/2019	12/9/2019	12/9/2019
		0.5 - 11.0	0.0 - 12.0	0.0 - 10.0	0.3 - 12.0
Total PCBs	1,000	ND	ND	ND	ND

Notes:

All concentrations are reported in parts per billion (ppb or ug/kg)

ftbg = feet below grade surface

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006).

Table 5. Summary of Waste Characterization in Soil

Parameter	6 NYCRR Part 371 and RCRA	Sample ID, Date Collected, and Depth (ftbg)			
		SB-01-COMP	SB-02-COMP	SB-03-COMP	SB-04-COMP
		12/9/2019	12/9/2019	12/9/2019	12/9/2019
		0.5 - 11.0	0.0 - 12.0	0.0 - 10.0	0.3 - 12.0
METALS¹	ug/L				
Barium	100,000	1,200	2,130	1,230	2,790
Cadmium	1,000	ND	ND	ND	83
Chromium	5,000	62	89	ND	ND
Lead	5,000	ND	ND	ND	91
Mercury	200	0.54 J	ND	ND	ND
Selenium	1,000	75 J	40 J	56 J	150
Silver	5,000	6 J	3.2 J	3.9 J	4.5 J
MISC. PARAMETERS (units)					
Reactivity Sulfide (mg/kg)	500	ND	ND	ND	ND
Reactivity Cyanide (mg/kg)	250	ND	ND	ND	ND
pH (SU)	2-12.5	7.28 H	7.58 H	7.55 H	8.35 H
Ignitability	>140 °F	No	No	No	No
TPHC Diesel Range Organics (mg/kg)	NS	2.56	2.66	2.93	10.3
TPHC Gasoline Range Organics (mg/kg)	NS	ND	ND	ND	ND

Notes:

ftbg = feet below grade surface

NS = No Standard

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

SU = Standard unit

J = Estimated value

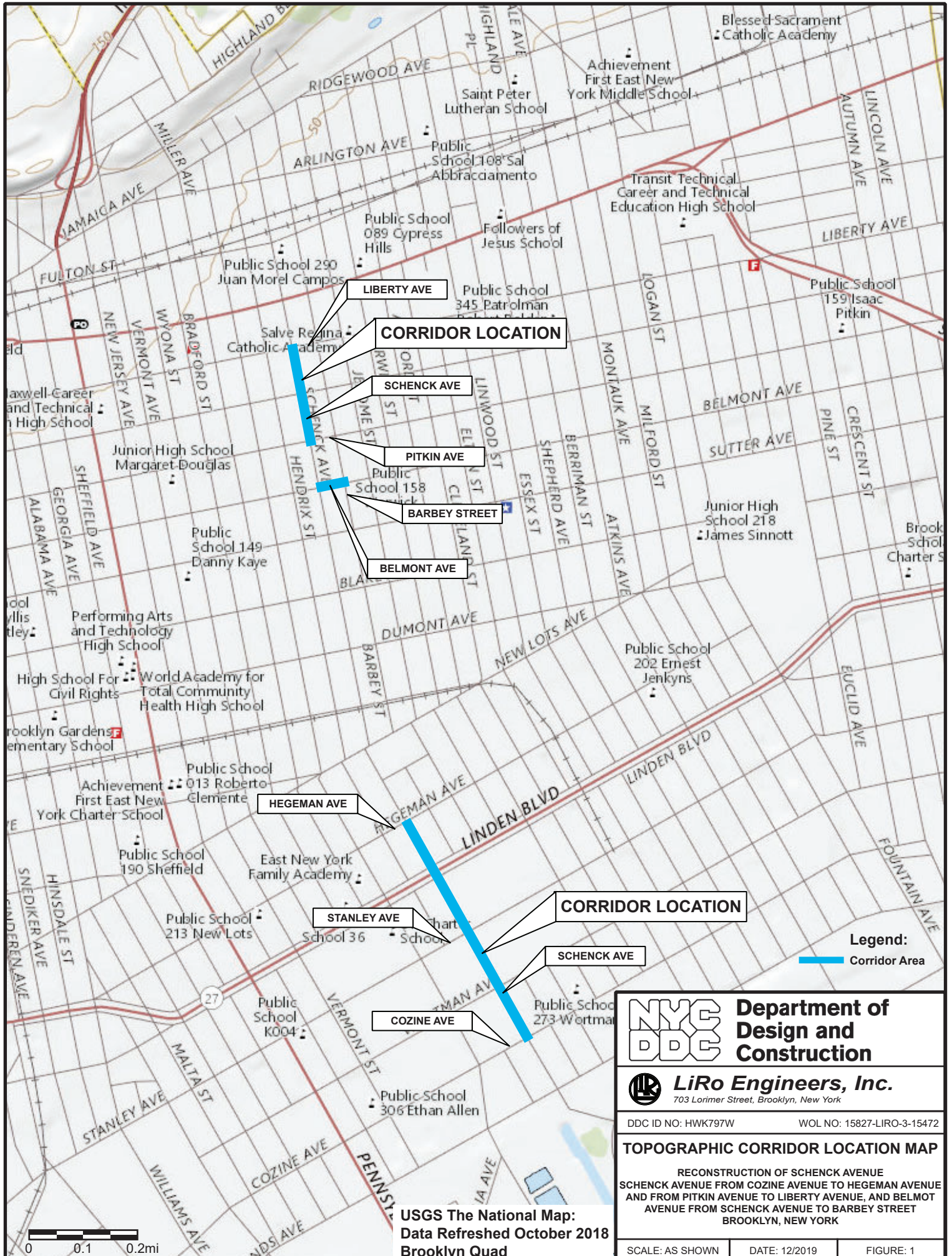
H = Sample analysis out of hold time

mg/Kg = milligram per kilogram

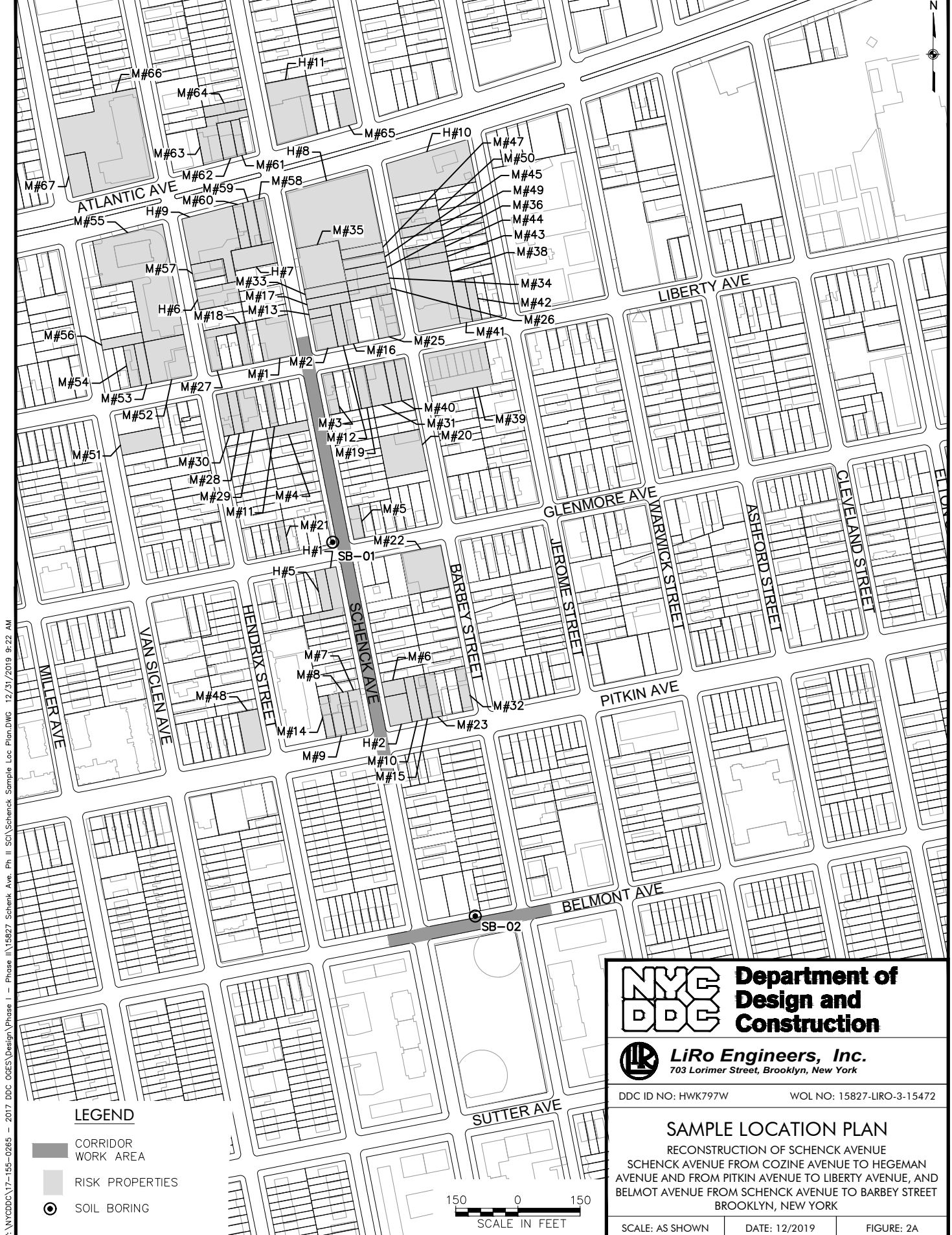
ug/L = microgram per liter

¹ = TCLP RCRA Metals

FIGURE 1 – TOPOGRAPHIC CORRIDOR LOCATION MAP



FIGURES 2A/2B – SAMPLE LOCATION PLAN



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LEGEND

- CORRIDOR
WORK AREA
- RISK PROPERTIES
- SOIL BORING



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LiRo Engineers, Inc.
703 Lorimer Street, Brooklyn, New York

DDC ID NO: HWK797W

WOL NO: 15827-LIRO-3-15472

SAMPLE LOCATION PLAN

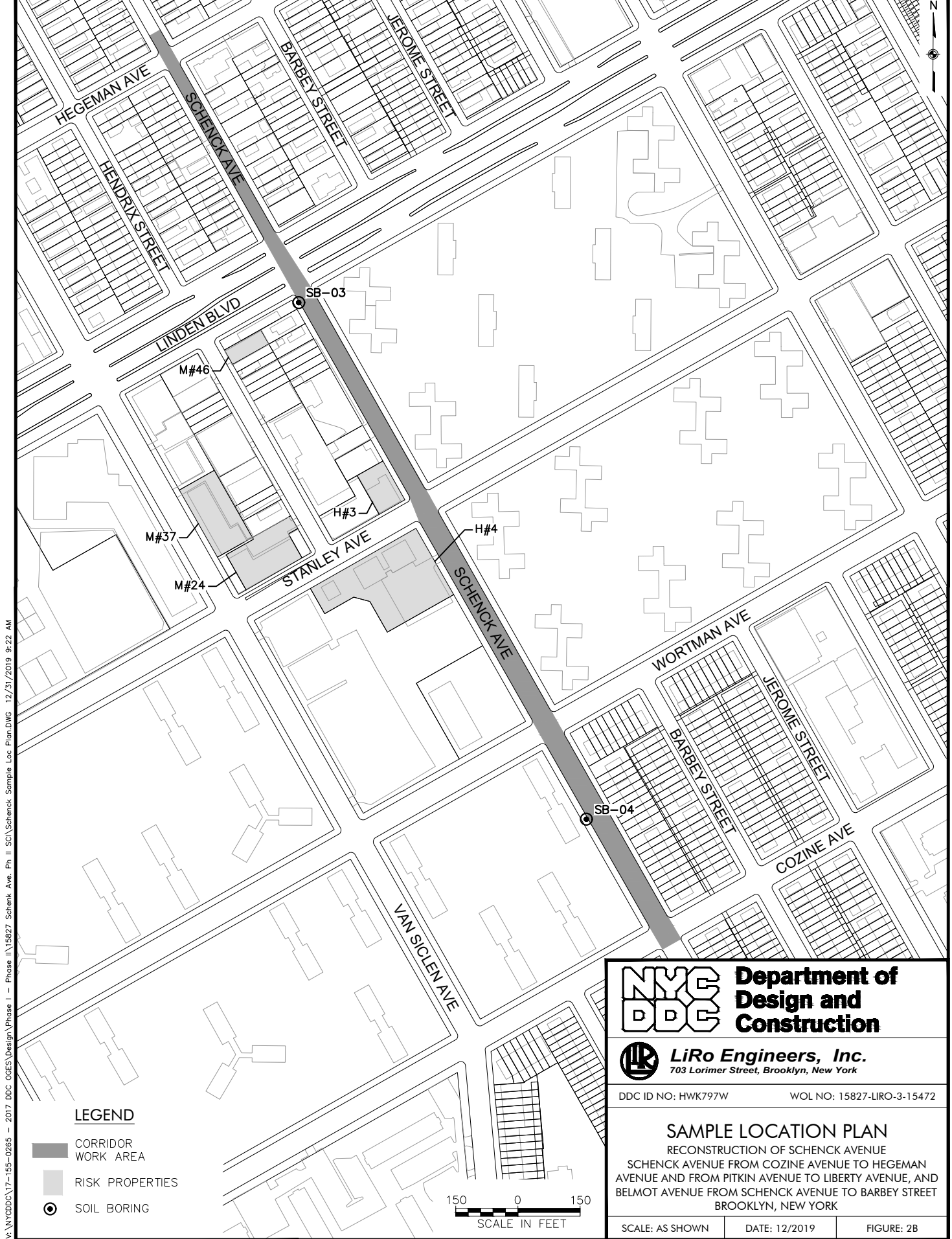
RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM COZINE AVENUE TO HEGEMAN
AVENUE AND FROM PITKIN AVENUE TO LIBERTY AVENUE, AND
BELMOT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET
BROOKLYN, NEW YORK

SCALE: AS SHOWN

DATE: 12/2019

FIGURE: 2A

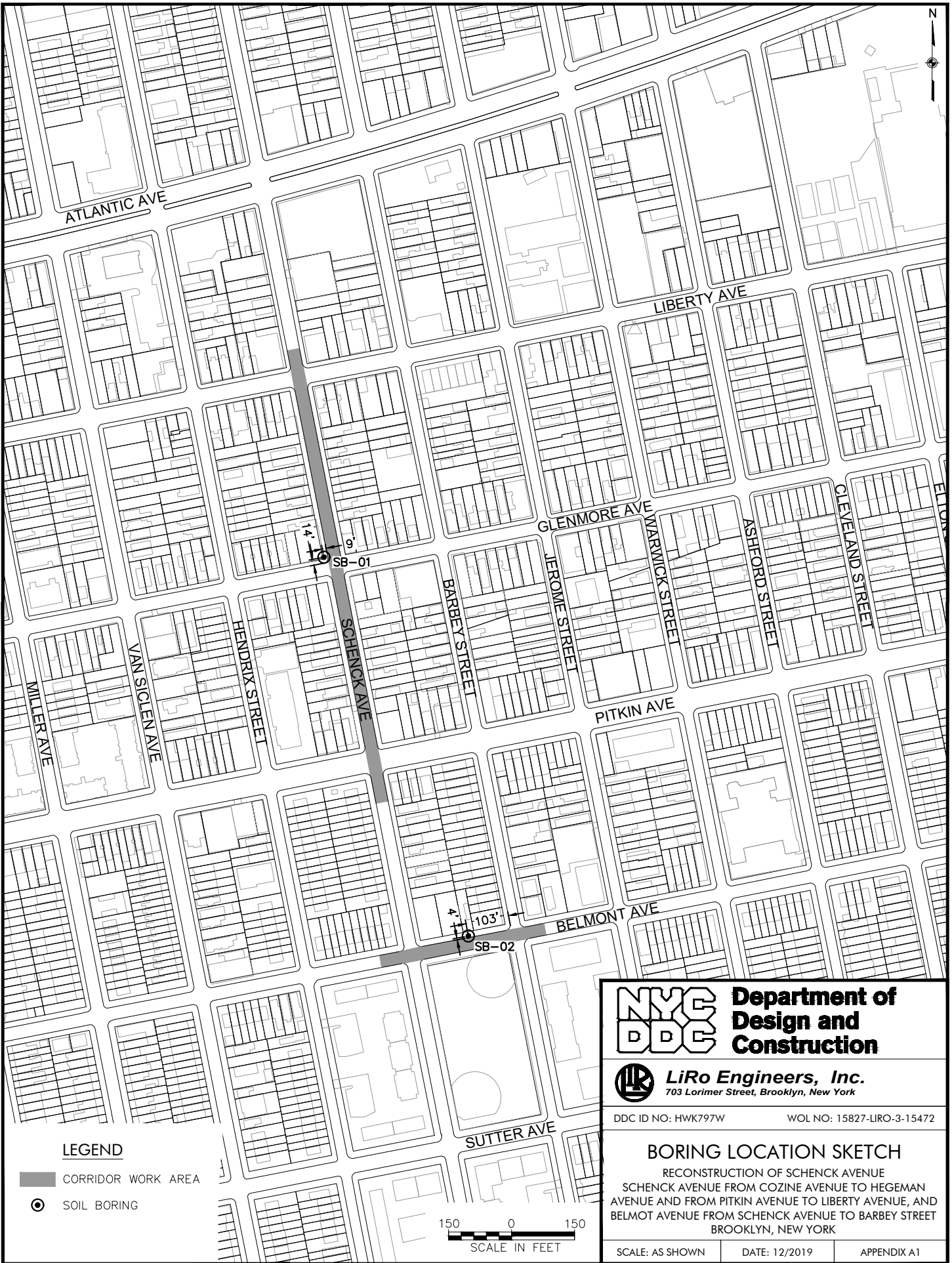
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APPENDIX A1/A2
BORING LOCATION SKETCHES

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DDC ID NO: HWK797W

WOL NO: 15827-LIRO-3-15472

BORING LOCATION SKETCH

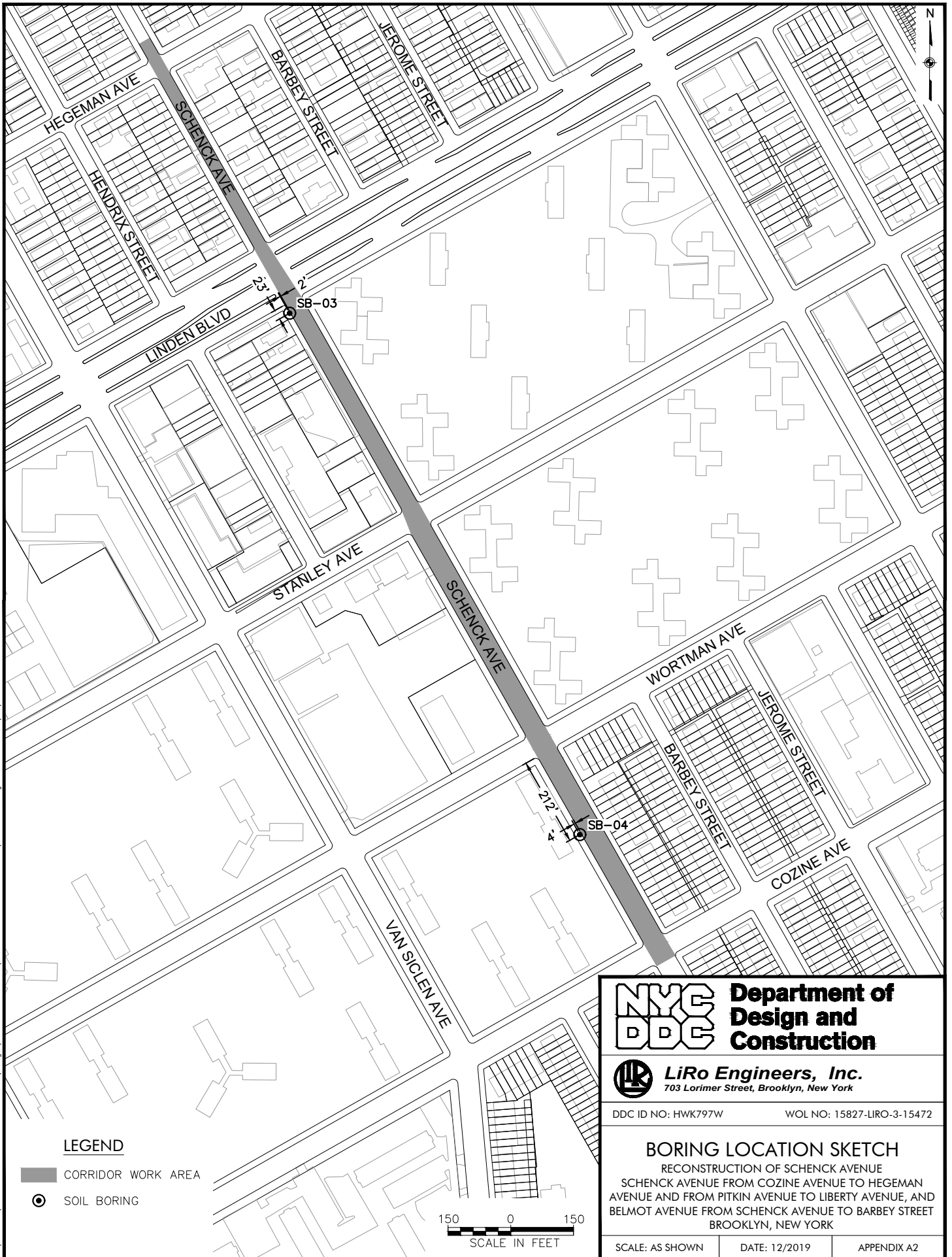
RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM COZINE AVENUE TO HEGEMAN
AVENUE AND FROM PITKIN AVENUE TO LIBERTY AVENUE, AND
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET
BROOKLYN, NEW YORK

SCALE: AS SHOWN

DATE: 12/2019

APPENDIX A1

V:\NYCDDC\17-155-0265 - 2017 DDC 06ES\Design\Phase I - Phase II\SCA\Schenck Boring Sketch.DWG 12/31/2019 9:22 AM



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DDC ID NO: HWK797W

WOL NO: 15827-LIRO-3-15472

BORING LOCATION SKETCH

RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM COZINE AVENUE TO HEGEMAN
AVENUE AND FROM PITKIN AVENUE TO LIBERTY AVENUE, AND
BELMOT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET
BROOKLYN, NEW YORK

SCALE: AS SHOWN

DATE: 12/2019

APPENDIX A2



APPENDIX B
GEOLOGIC BORING LOGS



LiRo Engineers, Inc.					TEST BORING LOG																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="3">DEPTH FEET</th> <th colspan="5">SAMPLE</th> <th colspan="3">DESCRIPTION</th> <th rowspan="3">USCS</th> <th rowspan="3">REMARKS</th> </tr> <tr> <th rowspan="2">STRATA</th> <th rowspan="2">"S" NO.</th> <th rowspan="2">"N" NO.</th> <th rowspan="2">BLOWS PER 6"</th> <th>REC%</th> <th rowspan="2">COLOR</th> <th rowspan="2">CONSISTENCY HARDNESS</th> <th>MATERIAL</th> </tr> <tr> <th>RQD%</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td rowspan="5" style="background-color: #cccccc; text-align: center;">[Pattern]</td> <td rowspan="5"></td> <td rowspan="5"></td> <td></td> <td rowspan="5">NA</td> <td rowspan="5">Brown</td> <td rowspan="5">NA</td> <td>0-0.6" Concrete.</td> <td rowspan="5">SW</td> <td rowspan="5">Hand cleared to 6 ftbg</td> </tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td rowspan="5">100%</td> <td rowspan="5">Reddish-brown</td> <td rowspan="5">Loose</td> <td>6"-6.0': Fine to medium Sand and gravel.</td> <td></td> <td rowspan="5">PID: 0.0 ppm Moist</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.0-11.0': Fine to medium Sand, some gravel.</td> <td></td> <td rowspan="5">PID: 0.0 ppm Moist</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td> <td colspan="7" rowspan="10" style="text-align: center; vertical-align: middle;">End of Boring at 11 ftbg</td> <td colspan="2" rowspan="10"></td> </tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr> <td>15</td> <td colspan="7"></td> <td colspan="2"></td> </tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr> <td>20</td> <td colspan="7"></td> <td colspan="2"></td> </tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr> <td>25</td> <td colspan="7"></td> <td colspan="2"></td> </tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr><td></td><td colspan="7"></td><td colspan="2"></td></tr> <tr> <td>30</td> <td colspan="7"></td> <td colspan="2"></td> </tr> </table>										DEPTH FEET	SAMPLE					DESCRIPTION			USCS	REMARKS	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC%	COLOR	CONSISTENCY HARDNESS	MATERIAL	RQD%	DESCRIPTION	1	[Pattern]				NA	Brown	NA	0-0.6" Concrete.	SW	Hand cleared to 6 ftbg																	6					100%	Reddish-brown	Loose	6"-6.0': Fine to medium Sand and gravel.		PID: 0.0 ppm Moist																									11								6.0-11.0': Fine to medium Sand, some gravel.		PID: 0.0 ppm Moist																																										End of Boring at 11 ftbg																		15																																																																																																				20																																																																																										25																																																																																30									
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LiRo Engineers, Inc.					TEST BORING LOG				
PROJECT: Reconstruction of Schenck Ave, Brooklyn, New York					BORING NO: SB-02				
CLIENT: Department of Design and Construction - OEHS - HWK797W					SHEET: 1 of 1				
BORING CONTRACTOR: Associated Environmental Services, LLC.					JOB NO.: 17-155-0265				
GROUNDWATER: Not encountered					CAS.	SAMPLER	TUBE	LOCATION: Belmont Ave.	
GROUND ELEVATION: NA									
DATE	TIME	LEVEL	TYPE	TYPE				DATE STARTED:	December 9, 2019
			NA	DIA.		2"		DATE FINISHED:	December 9, 2019
				WT.		5'		DRILLER:	Michael Lissenton
			FALL					GEOLOGIST:	Eva Jakubowska
								REVIEWED BY:	Thomas Fralick

DEPTH FEET	SAMPLE					DESCRIPTION			USCS	REMARKS	
	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION			
1	Gravel					NA	Reddish-brown	NA	0-6.0': Fine to medium Sand and gravel.	SW	Hand cleared to 6 ftbg
											PID: 0.0 ppm
											Moist
6						100%	Reddish-brown	Loose	6.0-10.0': Fine to medium Sand, trace of gravel.		PID: 0.0 ppm
										Moist	
10					30%	Reddish-brown	Loose	10.0-12.0': Fine to medium Sand, trace of gravel.		PID: 0.0 ppm	
12										Moist	
	End of Boring at 12 ftbg.										
15											
20											
25											
30											

COMMENTS: Grab sample collected @ 11.5-12.0 ftbg for TCL VOCs.	PROJECT NO.: 17-155-0265
Composite sample collected from 0.5-11.0 ftbg for PAHs, PCBs, and waste	BORING NO.: SB-02
characterization parameters. Soil was classified in accordance with the Unified Soil	
Classification System (USCS).	

 LiRo Engineers, Inc.										TEST BORING LOG			
PROJECT: Reconstruction of Schenck Ave, Brooklyn, New York										BORING NO: SB-03			
CLIENT: Department of Design and Construction - OEHS - HWK797W										SHEET: 1 of 1			
BORING CONTRACTOR: Associated Environmental Services, LLC.										JOB NO.: 17-155-0265			
GROUNDWATER: Not encountered										LOCATION: Schenck Ave.			
					CAS.		SAMPLER		TUBE		GROUND ELEVATION: NA		
DATE	TIME	LEVEL	TYPE	TYPE							DATE STARTED: December 9, 2019		
			NA	DIA.			2"				DATE FINISHED: December 9, 2019		
				WT.			5'				DRILLER: Michael Lissenton		
				FALL							GEOLOGIST: Eva Jakubowska		
										REVIEWED BY: Thomas Fralick			
DEPTH FEET	SAMPLE					DESCRIPTION					USCS	REMARKS	
	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION					
1					NA	Dark brown to reddish-brown	NA	0-6.0': Fine to medium Sand, trace of gravel.		SW	Hand cleared to 6 ftbg PID: 0.0 ppm Moist		
6					80%	Reddish-brown	Medium loose	6.0-10.0': Fine to medium Sand.		SP	PID: 0.0 ppm Moist		
10													
	<div style="border: 1px solid black; padding: 10px; text-align: center;">End of Boring at 10 ftbg.</div>												
15													
20													
25													
30													
COMMENTS: Grab sample collected @ 9.5-10.0 ftbg for TCL VOCs.										PROJECT NO.: 17-155-0265			
Composite sample collected from 0.5-11.0 ftbg for PAHs, PCBs, and waste										BORING NO.: SB-03			
characterization parameters. Soil was classified in accordance with the Unified Soil													
Classification System (USCS).													

 LiRo Engineers, Inc.										TEST BORING LOG			
PROJECT: Reconstruction of Schenck Ave, Brooklyn, New York										BORING NO: SB-04			
CLIENT: Department of Design and Construction - OEHS - HWK797W										SHEET: 1 of 1			
BORING CONTRACTOR: Associated Environmental Services, LLC.										JOB NO.: 17-155-0265			
GROUNDWATER: Not encountered										LOCATION: Schenck Ave.			
					CAS.	SAMPLER	TUBE	GROUND ELEVATION: NA					
DATE	TIME	LEVEL	TYPE	TYPE				DATE STARTED: December 9, 2019					
			NA	DIA.		2"		DATE FINISHED: December 9, 2019					
				WT.		5'		DRILLER: Michael Lissenton					
			FALL					GEOLOGIST: Eva Jakubowska					
							REVIEWED BY: Thomas Fralick						
DEPTH FEET	SAMPLE					DESCRIPTION				USCS	REMARKS		
	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION					
1					NA	Brown	NA	0-4": Concrete.		FILL	Hand cleared to 6 ftbg PID: 0.0 ppm Moist		
								4"-6.0': Fine to medium Sand and fill material.					
6								6.0-10.0': Fine to medium Sand and fill material.					
								10.0-12.0': Fill material, little sand.					
12													
					80%	Brown	Dense				PID: 0.0 ppm Moist		
					30%	Brown	Dense				PID: 0.0 ppm Moist		
								End of Boring at 12 ftbg.					
15													
20													
25													
30													
COMMENTS: Grab sample collected @ 11.5-12.0 ftbg for TCL VOCs.										PROJECT NO.: 17-155-0265			
Composite sample collected from 0.5-11.0 ftbg for PAHs, PCBs, and waste										BORING NO.: SB-04			
characterization parameters. Soil was classified in accordance with the Unified Soil Classification System (USCS).													

APPENDIX C
LABORATORY ANALYTICAL RESULTS

DATA FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS
GC SEMI-VOLATILES
METALS
GENERAL CHEMISTRY

PROJECT NAME : DDC OEGS - RECONSTRUCTION OF SCHENK AVE

LIRO ENGINEERS, INC.

690 Delaware Ave.

Buffalo, NY - 14209

Phone No: 716-882-5476

ORDER ID : K6242

ATTENTION : Amy Hewson



Date : 12/13/2019

Dear Amy Hewson,

12 soil samples for the **DDC OEGS - Reconstruction of Schenk Ave** project were received on **12/10/2019**. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

Steven T Chaimowitz

s.chaim@chemtech.net

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. **K6242**
COC Number **2022066**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Uro Engineers Inc.**
ADDRESS: **703 Lorimer street**
CITY: **Brooklyn** STATE: **NY** ZIP: **11211**
ATTENTION: **Amy Hewson**
PHONE: **716 882 5476** FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: **Reconstruction of Schenck Avenue**
PROJECT NO.: **17-155-0265** LOCATION: **Brooklyn**
PROJECT MANAGER: **Amy Hewson**
e-mail: **hewsona@uro.com**
PHONE: **716 882 5476** FAX: _____

CLIENT BILLING INFORMATION

BILL TO: _____ PO#: _____
ADDRESS: **same**
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____ PHONE: _____

ANALYSIS

MeOH extraction requires an additional 4 oz jar for percent solid.

DATA TURNAROUND INFORMATION

FAX: _____ DAYS*
HARD COPY: **3 day TAT** DAYS*
EDD: _____ DAYS*
PREAPPROVED TAT: ☒ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☒ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

1 **TCL VOC**
2 **PAHs**
3 **TCL PCBs**
4 **TPHC**
5 **DRO/GRO**
6 **RCA**
7 **TPH**
8 **RCA**
9 **TPH**

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	SB-01-10.5-11.0'	soil		X	12/9/19	0920	1	X									
2.	SB-01-COMP	soil	X			0925	3		X	X	X	X	X				
3.	SB-02-11.5-12.0'	soil		X		1030	1	X									
4.	SB-02-COMP		X			1035	3		X	X	X	X	X				
5.	SB-03-9.5-10.0'			X		1200	1	X									
6.	SB-03-COMP		X			1205	3		X	X	X	X	X				
7.	SB-04-11.5-12.0'			X		1330	1	X									
8.	SB-04-COMP	✓	X		✓	1335	3		X	X	X	X	X				
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Paul Gulari	DATE/TIME: 12/10/19	RECEIVED BY: Paul Gulari	Comments: IR 600 #1	Cooler Temp.: 2.2
RELINQUISHED BY: Paul Gulari	DATE/TIME: 12-10-19	RECEIVED BY:		Shipment
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:		Complete: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.		3.		By Client: _____
				By Chemtech: ✓

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-10.5-11.0	SDG No.:	K6242
Lab Sample ID:	K6242-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	5
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064487.D	1		12/10/19 16:50	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.00095	U	0.00095	0.0053	mg/Kg
74-87-3	Chloromethane	0.0019	U	0.0019	0.0053	mg/Kg
75-01-4	Vinyl Chloride	0.0012	U	0.0012	0.0053	mg/Kg
74-83-9	Bromomethane	0.00040	U	0.00040	0.0053	mg/Kg
75-00-3	Chloroethane	0.00060	U	0.00060	0.0053	mg/Kg
75-69-4	Trichlorofluoromethane	0.00068	U	0.00068	0.0053	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.00084	U	0.00084	0.0053	mg/Kg
75-65-0	Tert butyl alcohol	0.016	U	0.016	0.026	mg/Kg
75-35-4	1,1-Dichloroethene	0.0010	U	0.0010	0.0053	mg/Kg
67-64-1	Acetone	0.0081	U	0.0081	0.026	mg/Kg
75-15-0	Carbon Disulfide	0.0011	U	0.0011	0.0053	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0015	U	0.0015	0.0053	mg/Kg
79-20-9	Methyl Acetate	0.0030	U	0.0030	0.0053	mg/Kg
75-09-2	Methylene Chloride	0.0055	U	0.0055	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0013	U	0.0013	0.0053	mg/Kg
75-34-3	1,1-Dichloroethane	0.00096	U	0.00096	0.0053	mg/Kg
110-82-7	Cyclohexane	0.0019	U	0.0019	0.0053	mg/Kg
78-93-3	2-Butanone	0.0070	U	0.0070	0.026	mg/Kg
56-23-5	Carbon Tetrachloride	0.00087	U	0.00087	0.0053	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0010	U	0.0010	0.0053	mg/Kg
74-97-5	Bromochloromethane	0.0013	U	0.0013	0.0053	mg/Kg
67-66-3	Chloroform	0.00091	U	0.00091	0.0053	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0011	U	0.0011	0.0053	mg/Kg
108-87-2	Methylcyclohexane	0.0012	U	0.0012	0.0053	mg/Kg
71-43-2	Benzene	0.00088	U	0.00088	0.0053	mg/Kg
107-06-2	1,2-Dichloroethane	0.0013	U	0.0013	0.0053	mg/Kg
79-01-6	Trichloroethene	0.00098	U	0.00098	0.0053	mg/Kg
78-87-5	1,2-Dichloropropane	0.0013	U	0.0013	0.0053	mg/Kg
75-27-4	Bromodichloromethane	0.0010	U	0.0010	0.0053	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0059	U	0.0059	0.026	mg/Kg
108-88-3	Toluene	0.0010	U	0.0010	0.0053	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0011	U	0.0011	0.0053	mg/Kg

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-10.5-11.0	SDG No.:	K6242
Lab Sample ID:	K6242-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	5
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064487.D	1		12/10/19 16:50	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0011	U	0.0011	0.0053	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0015	U	0.0015	0.0053	mg/Kg
591-78-6	2-Hexanone	0.0078	U	0.0078	0.026	mg/Kg
124-48-1	Dibromochloromethane	0.0014	U	0.0014	0.0053	mg/Kg
106-93-4	1,2-Dibromoethane	0.0014	U	0.0014	0.0053	mg/Kg
127-18-4	Tetrachloroethene	0.00073	U	0.00073	0.0053	mg/Kg
108-90-7	Chlorobenzene	0.00083	U	0.00083	0.0053	mg/Kg
100-41-4	Ethyl Benzene	0.00090	U	0.00090	0.0053	mg/Kg
179601-23-1	m/p-Xylenes	0.0017	U	0.0017	0.011	mg/Kg
95-47-6	o-Xylene	0.0012	U	0.0012	0.0053	mg/Kg
100-42-5	Styrene	0.0010	U	0.0010	0.0053	mg/Kg
75-25-2	Bromoform	0.0034	U	0.0034	0.0053	mg/Kg
98-82-8	Isopropylbenzene	0.00091	U	0.00091	0.0053	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.0053	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0011	U	0.0011	0.0053	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0011	U	0.0011	0.0053	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0013	U	0.0013	0.0053	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0035	U	0.0035	0.0053	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.0053	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.0053	mg/Kg
123-91-1	1,4-Dioxane	0.052	U	0.052	0.11	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.4		56 - 120	83%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		57 - 135	93%	SPK: 50
2037-26-5	Toluene-d8	50.6		67 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		33 - 141	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	456000	7.98			
540-36-3	1,4-Difluorobenzene	687000	8.86			
3114-55-4	Chlorobenzene-d5	630000	11.64			
3855-82-1	1,4-Dichlorobenzene-d4	305000	13.58			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-10.5-11.0	SDG No.:	K6242
Lab Sample ID:	K6242-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	5
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064487.D	1		12/10/19 16:50	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	4.9
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG006335.D	1	12/11/19 09:40	12/11/19 16:17	PB125384

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2.56		0.88	1.75	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	14.7		37 - 130	74%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	4.9
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB023194.D	1	12/11/19 15:15	FB121119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.013	U	0.013	0.047	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	11.5		50 - 150	57%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit



Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 09:25
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-02	Matrix:	SOIL
		% Solid:	95.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		12/11/19 09:26	9095B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	4.9
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ045766.D	1	12/11/19 08:42	12/11/19 19:52	PB125386

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.0021	U	0.0021	0.018	mg/Kg
11104-28-2	Aroclor-1221	0.0071	U	0.0071	0.018	mg/Kg
11141-16-5	Aroclor-1232	0.0069	U	0.0069	0.018	mg/Kg
53469-21-9	Aroclor-1242	0.0062	U	0.0062	0.018	mg/Kg
12672-29-6	Aroclor-1248	0.0058	U	0.0058	0.018	mg/Kg
11097-69-1	Aroclor-1254	0.0068	U	0.0068	0.018	mg/Kg
37324-23-5	Aroclor-1262	0.0052	U	0.0052	0.018	mg/Kg
11100-14-4	Aroclor-1268	0.0045	U	0.0045	0.018	mg/Kg
11096-82-5	Aroclor-1260	0.0048	U	0.0048	0.018	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.3		10 - 166	121%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.3		60 - 125	116%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-02	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	4.9
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043801.D	1	12/11/19 09:10	12/11/19 18:49	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.052	U	0.052	0.35	mg/Kg
208-96-8	Acenaphthylene	0.063	U	0.063	0.35	mg/Kg
83-32-9	Acenaphthene	0.071	U	0.071	0.35	mg/Kg
86-73-7	Fluorene	0.053	U	0.053	0.35	mg/Kg
85-01-8	Phenanthrene	0.060	U	0.060	0.35	mg/Kg
120-12-7	Anthracene	0.058	U	0.058	0.35	mg/Kg
206-44-0	Fluoranthene	0.052	U	0.052	0.35	mg/Kg
129-00-0	Pyrene	0.064	U	0.064	0.35	mg/Kg
56-55-3	Benzo(a)anthracene	0.039	U	0.039	0.35	mg/Kg
218-01-9	Chrysene	0.045	U	0.045	0.35	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.051	U	0.051	0.35	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.059	U	0.059	0.35	mg/Kg
50-32-8	Benzo(a)pyrene	0.047	U	0.047	0.35	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.076	U	0.076	0.35	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.055	U	0.055	0.35	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.064	U	0.064	0.35	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.8		31 - 132	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.4		39 - 123	74%	SPK: 100
1718-51-0	Terphenyl-d14	72.8		37 - 115	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	120000	8			
1146-65-2	Naphthalene-d8	508000	10.8			
15067-26-2	Acenaphthene-d10	351000	14.63			
1517-22-2	Phenanthrene-d10	868000	17.36			
1719-03-5	Chrysene-d12	824000	21.62			
1520-96-3	Perylene-d12	902000	24.77			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-02	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	4.9
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043801.D	1	12/11/19 09:10	12/11/19 18:49	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-11.5-12.0	SDG No.:	K6242
Lab Sample ID:	K6242-03	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	6.3
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064488.D	1		12/10/19 17:19	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.00097	U	0.00097	0.0053	mg/Kg
74-87-3	Chloromethane	0.0019	U	0.0019	0.0053	mg/Kg
75-01-4	Vinyl Chloride	0.0012	U	0.0012	0.0053	mg/Kg
74-83-9	Bromomethane	0.00040	U	0.00040	0.0053	mg/Kg
75-00-3	Chloroethane	0.00061	U	0.00061	0.0053	mg/Kg
75-69-4	Trichlorofluoromethane	0.00069	U	0.00069	0.0053	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.00085	U	0.00085	0.0053	mg/Kg
75-65-0	Tert butyl alcohol	0.016	U	0.016	0.027	mg/Kg
75-35-4	1,1-Dichloroethene	0.0011	U	0.0011	0.0053	mg/Kg
67-64-1	Acetone	0.011	J	0.0082	0.027	mg/Kg
75-15-0	Carbon Disulfide	0.0011	U	0.0011	0.0053	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0015	U	0.0015	0.0053	mg/Kg
79-20-9	Methyl Acetate	0.0030	U	0.0030	0.0053	mg/Kg
75-09-2	Methylene Chloride	0.0055	U	0.0055	0.011	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0013	U	0.0013	0.0053	mg/Kg
75-34-3	1,1-Dichloroethane	0.00097	U	0.00097	0.0053	mg/Kg
110-82-7	Cyclohexane	0.0019	U	0.0019	0.0053	mg/Kg
78-93-3	2-Butanone	0.0071	U	0.0071	0.027	mg/Kg
56-23-5	Carbon Tetrachloride	0.00088	U	0.00088	0.0053	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0011	U	0.0011	0.0053	mg/Kg
74-97-5	Bromochloromethane	0.0013	U	0.0013	0.0053	mg/Kg
67-66-3	Chloroform	0.00092	U	0.00092	0.0053	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0011	U	0.0011	0.0053	mg/Kg
108-87-2	Methylcyclohexane	0.0013	U	0.0013	0.0053	mg/Kg
71-43-2	Benzene	0.00089	U	0.00089	0.0053	mg/Kg
107-06-2	1,2-Dichloroethane	0.0013	U	0.0013	0.0053	mg/Kg
79-01-6	Trichloroethene	0.00099	U	0.00099	0.0053	mg/Kg
78-87-5	1,2-Dichloropropane	0.0013	U	0.0013	0.0053	mg/Kg
75-27-4	Bromodichloromethane	0.0011	U	0.0011	0.0053	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0060	U	0.0060	0.027	mg/Kg
108-88-3	Toluene	0.0010	U	0.0010	0.0053	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0011	U	0.0011	0.0053	mg/Kg

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-11.5-12.0	SDG No.:	K6242
Lab Sample ID:	K6242-03	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	6.3
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064488.D	1		12/10/19 17:19	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0011	U	0.0011	0.0053	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0015	U	0.0015	0.0053	mg/Kg
591-78-6	2-Hexanone	0.0079	U	0.0079	0.027	mg/Kg
124-48-1	Dibromochloromethane	0.0014	U	0.0014	0.0053	mg/Kg
106-93-4	1,2-Dibromoethane	0.0014	U	0.0014	0.0053	mg/Kg
127-18-4	Tetrachloroethene	0.00074	U	0.00074	0.0053	mg/Kg
108-90-7	Chlorobenzene	0.00084	U	0.00084	0.0053	mg/Kg
100-41-4	Ethyl Benzene	0.00091	U	0.00091	0.0053	mg/Kg
179601-23-1	m/p-Xylenes	0.0018	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0012	U	0.0012	0.0053	mg/Kg
100-42-5	Styrene	0.0011	U	0.0011	0.0053	mg/Kg
75-25-2	Bromoform	0.0035	U	0.0035	0.0053	mg/Kg
98-82-8	Isopropylbenzene	0.00092	U	0.00092	0.0053	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.0053	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0011	U	0.0011	0.0053	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0011	U	0.0011	0.0053	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0014	U	0.0014	0.0053	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0035	U	0.0035	0.0053	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.0053	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0014	U	0.0014	0.0053	mg/Kg
123-91-1	1,4-Dioxane	0.053	U	0.053	0.11	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		56 - 120	89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		57 - 135	93%	SPK: 50
2037-26-5	Toluene-d8	49.6		67 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		33 - 141	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	418000	7.98			
540-36-3	1,4-Difluorobenzene	646000	8.87			
3114-55-4	Chlorobenzene-d5	597000	11.64			
3855-82-1	1,4-Dichlorobenzene-d4	288000	13.58			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-11.5-12.0	SDG No.:	K6242
Lab Sample ID:	K6242-03	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	6.3
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064488.D	1		12/10/19 17:19	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	3.9 Decanted:
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG006338.D	1	12/11/19 09:40	12/11/19 17:47	PB125384

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2.66		0.86	1.73	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.3		37 - 130	57%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	3.9 Decanted:
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB023191.D	1	12/11/19 13:29	FB121119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.012	U	0.012	0.047	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	89%	SPK: 20

Comments:

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 10:35
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-04	Matrix:	SOIL
		% Solid:	96.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		12/11/19 09:34	9095B

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	3.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ045767.D	1	12/11/19 08:42	12/11/19 20:08	PB125386

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.0021	U	0.0021	0.018	mg/Kg
11104-28-2	Aroclor-1221	0.0070	U	0.0070	0.018	mg/Kg
11141-16-5	Aroclor-1232	0.0068	U	0.0068	0.018	mg/Kg
53469-21-9	Aroclor-1242	0.0061	U	0.0061	0.018	mg/Kg
12672-29-6	Aroclor-1248	0.0057	U	0.0057	0.018	mg/Kg
11097-69-1	Aroclor-1254	0.0067	U	0.0067	0.018	mg/Kg
37324-23-5	Aroclor-1262	0.0052	U	0.0052	0.018	mg/Kg
11100-14-4	Aroclor-1268	0.0044	U	0.0044	0.018	mg/Kg
11096-82-5	Aroclor-1260	0.0048	U	0.0048	0.018	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.8		10 - 166	129%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.5		60 - 125	113%	SPK: 20

Comments:

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 B = Analyte Found in Associated Method Blank
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-04	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	3.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043802.D	1	12/11/19 09:10	12/11/19 19:28	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.052	U	0.052	0.34	mg/Kg
208-96-8	Acenaphthylene	0.062	U	0.062	0.34	mg/Kg
83-32-9	Acenaphthene	0.071	U	0.071	0.34	mg/Kg
86-73-7	Fluorene	0.053	U	0.053	0.34	mg/Kg
85-01-8	Phenanthrene	0.059	U	0.059	0.34	mg/Kg
120-12-7	Anthracene	0.058	U	0.058	0.34	mg/Kg
206-44-0	Fluoranthene	0.052	U	0.052	0.34	mg/Kg
129-00-0	Pyrene	0.063	U	0.063	0.34	mg/Kg
56-55-3	Benzo(a)anthracene	0.039	U	0.039	0.34	mg/Kg
218-01-9	Chrysene	0.044	U	0.044	0.34	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.051	U	0.051	0.34	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.059	U	0.059	0.34	mg/Kg
50-32-8	Benzo(a)pyrene	0.046	U	0.046	0.34	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.075	U	0.075	0.34	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.054	U	0.054	0.34	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.064	U	0.064	0.34	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.6		31 - 132	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.0		39 - 123	74%	SPK: 100
1718-51-0	Terphenyl-d14	73.2		37 - 115	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	123000	8			
1146-65-2	Naphthalene-d8	523000	10.8			
15067-26-2	Acenaphthene-d10	365000	14.62			
1517-22-2	Phenanthrene-d10	886000	17.37			
1719-03-5	Chrysene-d12	831000	21.62			
1520-96-3	Perylene-d12	922000	24.78			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-04	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	3.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043802.D	1	12/11/19 09:10	12/11/19 19:28	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-9.5-10.0	SDG No.:	K6242
Lab Sample ID:	K6242-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	4.1
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064489.D	1		12/10/19 17:48	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.00094	U	0.00094	0.0052	mg/Kg
74-87-3	Chloromethane	0.0018	U	0.0018	0.0052	mg/Kg
75-01-4	Vinyl Chloride	0.0011	U	0.0011	0.0052	mg/Kg
74-83-9	Bromomethane	0.00039	U	0.00039	0.0052	mg/Kg
75-00-3	Chloroethane	0.00059	U	0.00059	0.0052	mg/Kg
75-69-4	Trichlorofluoromethane	0.00067	U	0.00067	0.0052	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.00083	U	0.00083	0.0052	mg/Kg
75-65-0	Tert butyl alcohol	0.016	U	0.016	0.026	mg/Kg
75-35-4	1,1-Dichloroethene	0.0010	U	0.0010	0.0052	mg/Kg
67-64-1	Acetone	0.0079	U	0.0079	0.026	mg/Kg
75-15-0	Carbon Disulfide	0.0011	U	0.0011	0.0052	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0014	U	0.0014	0.0052	mg/Kg
79-20-9	Methyl Acetate	0.0029	U	0.0029	0.0052	mg/Kg
75-09-2	Methylene Chloride	0.0054	U	0.0054	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0013	U	0.0013	0.0052	mg/Kg
75-34-3	1,1-Dichloroethane	0.00094	U	0.00094	0.0052	mg/Kg
110-82-7	Cyclohexane	0.0019	U	0.0019	0.0052	mg/Kg
78-93-3	2-Butanone	0.0069	U	0.0069	0.026	mg/Kg
56-23-5	Carbon Tetrachloride	0.00085	U	0.00085	0.0052	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0010	U	0.0010	0.0052	mg/Kg
74-97-5	Bromochloromethane	0.0012	U	0.0012	0.0052	mg/Kg
67-66-3	Chloroform	0.00089	U	0.00089	0.0052	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0011	U	0.0011	0.0052	mg/Kg
108-87-2	Methylcyclohexane	0.0012	U	0.0012	0.0052	mg/Kg
71-43-2	Benzene	0.00086	U	0.00086	0.0052	mg/Kg
107-06-2	1,2-Dichloroethane	0.0012	U	0.0012	0.0052	mg/Kg
79-01-6	Trichloroethene	0.00096	U	0.00096	0.0052	mg/Kg
78-87-5	1,2-Dichloropropane	0.0013	U	0.0013	0.0052	mg/Kg
75-27-4	Bromodichloromethane	0.0010	U	0.0010	0.0052	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0058	U	0.0058	0.026	mg/Kg
108-88-3	Toluene	0.0010	U	0.0010	0.0052	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0010	U	0.0010	0.0052	mg/Kg

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-9.5-10.0	SDG No.:	K6242
Lab Sample ID:	K6242-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	4.1
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064489.D	1		12/10/19 17:48	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0011	U	0.0011	0.0052	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0015	U	0.0015	0.0052	mg/Kg
591-78-6	2-Hexanone	0.0076	U	0.0076	0.026	mg/Kg
124-48-1	Dibromochloromethane	0.0014	U	0.0014	0.0052	mg/Kg
106-93-4	1,2-Dibromoethane	0.0013	U	0.0013	0.0052	mg/Kg
127-18-4	Tetrachloroethene	0.00072	U	0.00072	0.0052	mg/Kg
108-90-7	Chlorobenzene	0.00081	U	0.00081	0.0052	mg/Kg
100-41-4	Ethyl Benzene	0.00088	U	0.00088	0.0052	mg/Kg
179601-23-1	m/p-Xylenes	0.0017	U	0.0017	0.010	mg/Kg
95-47-6	o-Xylene	0.0011	U	0.0011	0.0052	mg/Kg
100-42-5	Styrene	0.0010	U	0.0010	0.0052	mg/Kg
75-25-2	Bromoform	0.0034	U	0.0034	0.0052	mg/Kg
98-82-8	Isopropylbenzene	0.00089	U	0.00089	0.0052	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.0052	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0011	U	0.0011	0.0052	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0011	U	0.0011	0.0052	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0013	U	0.0013	0.0052	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0034	U	0.0034	0.0052	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.0052	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.0052	mg/Kg
123-91-1	1,4-Dioxane	0.051	U	0.051	0.10	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		56 - 120	87%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		57 - 135	95%	SPK: 50
2037-26-5	Toluene-d8	50.4		67 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		33 - 141	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	426000	7.98			
540-36-3	1,4-Difluorobenzene	654000	8.87			
3114-55-4	Chlorobenzene-d5	602000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	294000	13.58			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-9.5-10.0	SDG No.:	K6242
Lab Sample ID:	K6242-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	4.1
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064489.D	1		12/10/19 17:48	VD121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	18.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG006339.D	1	12/11/19 09:40	12/11/19 18:17	PB125384

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2.93		1.02	2.03	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	13.3		37 - 130	66%	SPK: 20

Comments:

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	18.2
Sample Wt/Vol:	5.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB023185.D	1	12/10/19 17:06	FB121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.015	U	0.015	0.055	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.4		50 - 150	87%	SPK: 20

Comments:

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 LOQ = Limit of Quantitation
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
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 D = Dilution
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 () = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 12:05
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-06	Matrix:	SOIL
		% Solid:	81.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		12/11/19 09:44	9095B

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-06	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	18.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ045768.D	1	12/11/19 08:42	12/11/19 20:24	PB125386

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.0024	U	0.0024	0.021	mg/Kg
11104-28-2	Aroclor-1221	0.0082	U	0.0082	0.021	mg/Kg
11141-16-5	Aroclor-1232	0.0080	U	0.0080	0.021	mg/Kg
53469-21-9	Aroclor-1242	0.0072	U	0.0072	0.021	mg/Kg
12672-29-6	Aroclor-1248	0.0067	U	0.0067	0.021	mg/Kg
11097-69-1	Aroclor-1254	0.0079	U	0.0079	0.021	mg/Kg
37324-23-5	Aroclor-1262	0.0061	U	0.0061	0.021	mg/Kg
11100-14-4	Aroclor-1268	0.0052	U	0.0052	0.021	mg/Kg
11096-82-5	Aroclor-1260	0.0056	U	0.0056	0.021	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.1		10 - 166	136%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		60 - 125	94%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-06	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	18.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043803.D	1	12/11/19 09:10	12/11/19 20:07	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.061	U	0.061	0.40	mg/Kg
208-96-8	Acenaphthylene	0.073	U	0.073	0.40	mg/Kg
83-32-9	Acenaphthene	0.083	U	0.083	0.40	mg/Kg
86-73-7	Fluorene	0.062	U	0.062	0.40	mg/Kg
85-01-8	Phenanthrene	0.070	U	0.070	0.40	mg/Kg
120-12-7	Anthracene	0.068	U	0.068	0.40	mg/Kg
206-44-0	Fluoranthene	0.060	U	0.060	0.40	mg/Kg
129-00-0	Pyrene	0.074	U	0.074	0.40	mg/Kg
56-55-3	Benzo(a)anthracene	0.046	U	0.046	0.40	mg/Kg
218-01-9	Chrysene	0.052	U	0.052	0.40	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.059	U	0.059	0.40	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.069	U	0.069	0.40	mg/Kg
50-32-8	Benzo(a)pyrene	0.054	U	0.054	0.40	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.088	U	0.088	0.40	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.064	U	0.064	0.40	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.075	U	0.075	0.40	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	62.0		31 - 132	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.8		39 - 123	64%	SPK: 100
1718-51-0	Terphenyl-d14	63.1		37 - 115	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	8			
1146-65-2	Naphthalene-d8	539000	10.8			
15067-26-2	Acenaphthene-d10	375000	14.63			
1517-22-2	Phenanthrene-d10	919000	17.36			
1719-03-5	Chrysene-d12	848000	21.62			
1520-96-3	Perylene-d12	940000	24.77			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OECS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-06	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	18.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043803.D	1	12/11/19 09:10	12/11/19 20:07	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-11.5-12.0	SDG No.:	K6242
Lab Sample ID:	K6242-07	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.5
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064497.D	1		12/11/19 13:22	VD121119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0011	U	0.0011	0.0061	mg/Kg
74-87-3	Chloromethane	0.0022	U	0.0022	0.0061	mg/Kg
75-01-4	Vinyl Chloride	0.0014	U	0.0014	0.0061	mg/Kg
74-83-9	Bromomethane	0.00046	U	0.00046	0.0061	mg/Kg
75-00-3	Chloroethane	0.00070	U	0.00070	0.0061	mg/Kg
75-69-4	Trichlorofluoromethane	0.00079	U	0.00079	0.0061	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.00098	U	0.00098	0.0061	mg/Kg
75-65-0	Tert butyl alcohol	0.019	U	0.019	0.031	mg/Kg
75-35-4	1,1-Dichloroethene	0.0012	U	0.0012	0.0061	mg/Kg
67-64-1	Acetone	0.016	J	0.0094	0.031	mg/Kg
75-15-0	Carbon Disulfide	0.0013	U	0.0013	0.0061	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0017	U	0.0017	0.0061	mg/Kg
79-20-9	Methyl Acetate	0.0034	U	0.0034	0.0061	mg/Kg
75-09-2	Methylene Chloride	0.0063	U	0.0063	0.012	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0015	U	0.0015	0.0061	mg/Kg
75-34-3	1,1-Dichloroethane	0.0011	U	0.0011	0.0061	mg/Kg
110-82-7	Cyclohexane	0.0022	U	0.0022	0.0061	mg/Kg
78-93-3	2-Butanone	0.0081	U	0.0081	0.031	mg/Kg
56-23-5	Carbon Tetrachloride	0.0010	U	0.0010	0.0061	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0012	U	0.0012	0.0061	mg/Kg
74-97-5	Bromochloromethane	0.0015	U	0.0015	0.0061	mg/Kg
67-66-3	Chloroform	0.0011	U	0.0011	0.0061	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0013	U	0.0013	0.0061	mg/Kg
108-87-2	Methylcyclohexane	0.0014	U	0.0014	0.0061	mg/Kg
71-43-2	Benzene	0.0010	U	0.0010	0.0061	mg/Kg
107-06-2	1,2-Dichloroethane	0.0015	U	0.0015	0.0061	mg/Kg
79-01-6	Trichloroethene	0.0011	U	0.0011	0.0061	mg/Kg
78-87-5	1,2-Dichloropropane	0.0015	U	0.0015	0.0061	mg/Kg
75-27-4	Bromodichloromethane	0.0012	U	0.0012	0.0061	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0068	U	0.0068	0.031	mg/Kg
108-88-3	Toluene	0.0012	U	0.0012	0.0061	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0012	U	0.0012	0.0061	mg/Kg

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-11.5-12.0	SDG No.:	K6242
Lab Sample ID:	K6242-07	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.5
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064497.D	1		12/11/19 13:22	VD121119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-01-5	cis-1,3-Dichloropropene	0.0013	U	0.0013	0.0061	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0017	U	0.0017	0.0061	mg/Kg
591-78-6	2-Hexanone	0.0090	U	0.0090	0.031	mg/Kg
124-48-1	Dibromochloromethane	0.0016	U	0.0016	0.0061	mg/Kg
106-93-4	1,2-Dibromoethane	0.0016	U	0.0016	0.0061	mg/Kg
127-18-4	Tetrachloroethene	0.00085	U	0.00085	0.0061	mg/Kg
108-90-7	Chlorobenzene	0.00096	U	0.00096	0.0061	mg/Kg
100-41-4	Ethyl Benzene	0.0010	U	0.0010	0.0061	mg/Kg
179601-23-1	m/p-Xylenes	0.0020	U	0.0020	0.012	mg/Kg
95-47-6	o-Xylene	0.0013	U	0.0013	0.0061	mg/Kg
100-42-5	Styrene	0.0012	U	0.0012	0.0061	mg/Kg
75-25-2	Bromoform	0.0040	U	0.0040	0.0061	mg/Kg
98-82-8	Isopropylbenzene	0.0011	U	0.0011	0.0061	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.0061	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0013	U	0.0013	0.0061	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0013	U	0.0013	0.0061	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0015	U	0.0015	0.0061	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0041	U	0.0041	0.0061	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0014	U	0.0014	0.0061	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0016	U	0.0016	0.0061	mg/Kg
123-91-1	1,4-Dioxane	0.061	U	0.061	0.12	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.4		56 - 120	85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		57 - 135	95%	SPK: 50
2037-26-5	Toluene-d8	50.3		67 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		33 - 141	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	431000	7.98			
540-36-3	1,4-Difluorobenzene	644000	8.87			
3114-55-4	Chlorobenzene-d5	583000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	256000	13.58			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-11.5-12.0	SDG No.:	K6242
Lab Sample ID:	K6242-07	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.5
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064497.D	1		12/11/19 13:22	VD121119

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Moisture:	12.6 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG006340.D	1	12/11/19 09:40	12/11/19 18:47	PB125384

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10.3		0.95	1.91	mg/Kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.9		37 - 130	85%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Moisture:	12.6
Sample Wt/Vol:	5.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB023186.D	1	12/10/19 17:37	FB121019

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	0.014	U	0.014	0.051	mg/Kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.2		50 - 150	81%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 13:35
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-08	Matrix:	SOIL
		% Solid:	87.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		12/11/19 09:52	9095B

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-08	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	12.6
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ045769.D	1	12/11/19 08:42	12/11/19 20:40	PB125386

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	0.0023	U	0.0023	0.019	mg/Kg
11104-28-2	Aroclor-1221	0.0077	U	0.0077	0.019	mg/Kg
11141-16-5	Aroclor-1232	0.0074	U	0.0074	0.019	mg/Kg
53469-21-9	Aroclor-1242	0.0067	U	0.0067	0.019	mg/Kg
12672-29-6	Aroclor-1248	0.0063	U	0.0063	0.019	mg/Kg
11097-69-1	Aroclor-1254	0.0074	U	0.0074	0.019	mg/Kg
37324-23-5	Aroclor-1262	0.0057	U	0.0057	0.019	mg/Kg
11100-14-4	Aroclor-1268	0.0049	U	0.0049	0.019	mg/Kg
11096-82-5	Aroclor-1260	0.0053	U	0.0053	0.019	mg/Kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.3		10 - 166	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		60 - 125	89%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-08	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	12.6
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001323.D	1	12/11/19 09:10	12/11/19 20:57	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.057	U	0.057	0.38	mg/Kg
208-96-8	Acenaphthylene	0.068	U	0.068	0.38	mg/Kg
83-32-9	Acenaphthene	0.077	U	0.077	0.38	mg/Kg
86-73-7	Fluorene	0.058	U	0.058	0.38	mg/Kg
85-01-8	Phenanthrene	0.085	J	0.065	0.38	mg/Kg
120-12-7	Anthracene	0.064	U	0.064	0.38	mg/Kg
206-44-0	Fluoranthene	0.16	J	0.056	0.38	mg/Kg
129-00-0	Pyrene	0.15	J	0.069	0.38	mg/Kg
56-55-3	Benzo(a)anthracene	0.12	J	0.043	0.38	mg/Kg
218-01-9	Chrysene	0.12	J	0.049	0.38	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.19	J	0.056	0.38	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.064	U	0.064	0.38	mg/Kg
50-32-8	Benzo(a)pyrene	0.15	J	0.051	0.38	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.088	J	0.083	0.38	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.060	U	0.060	0.38	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.11	J	0.070	0.38	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.9		31 - 132	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.5		39 - 123	79%	SPK: 100
1718-51-0	Terphenyl-d14	74.5		37 - 115	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	77700	8.3			
1146-65-2	Naphthalene-d8	268000	10.34			
15067-26-2	Acenaphthene-d10	144000	13.2			
1517-22-2	Phenanthrene-d10	264000	15.6			
1719-03-5	Chrysene-d12	197000	19.24			
1520-96-3	Perylene-d12	207000	21.01			

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-08	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	12.6
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-PAH
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001323.D	1	12/11/19 09:10	12/11/19 20:57	PB125381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 09:25
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-09	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.28	H	1	0	0	pH		12/10/19 17:11	9045D
Ignitability	NO		1	0	0	oC		12/11/19 11:17	1030
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	12/11/19 10:30	12/12/19 14:16	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	12/11/19 10:30	12/11/19 12:37	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-01-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-09	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.0068	U	1	0.0068	0.10	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010
7440-39-3	Barium	1.20		1	0.040	0.50	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010
7440-43-9	Cadmium	0.0017	U	1	0.0017	0.030	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010
7440-47-3	Chromium	0.062		1	0.013	0.050	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010
7439-92-1	Lead	0.014	U	1	0.014	0.060	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010
7439-97-6	Mercury	0.00054	J	1	0.00043	0.0020	mg/L	12/11/19 15:30	12/12/19 11:59	SW7470A
7782-49-2	Selenium	0.075	J	1	0.028	0.10	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010
7440-22-4	Silver	0.0060	J	1	0.0017	0.050	mg/L	12/11/19 15:20	12/11/19 22:16	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 10:35
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-10	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.58	H	1	0	0	pH		12/10/19 17:12	9045D
Ignitability	NO		1	0	0	oC		12/11/19 11:26	1030
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	12/11/19 10:30	12/12/19 14:47	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	12/11/19 10:30	12/11/19 12:40	9034

Comments:

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LOQ = Limit of Quantitation

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LOD = Limit of Detection

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-02-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-10	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.0068	U	1	0.0068	0.10	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010
7440-39-3	Barium	2.13		1	0.040	0.50	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010
7440-43-9	Cadmium	0.0017	U	1	0.0017	0.030	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010
7440-47-3	Chromium	0.089		1	0.013	0.050	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010
7439-92-1	Lead	0.014	U	1	0.014	0.060	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010
7439-97-6	Mercury	0.00043	U	1	0.00043	0.0020	mg/L	12/11/19 15:30	12/12/19 12:05	SW7470A
7782-49-2	Selenium	0.040	J	1	0.028	0.10	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010
7440-22-4	Silver	0.0032	J	1	0.0017	0.050	mg/L	12/11/19 15:20	12/11/19 22:20	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 12:05
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-11	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.55	H	1	0	0	pH		12/10/19 17:15	9045D
Ignitability	NO		1	0	0	oC		12/11/19 11:34	1030
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	12/11/19 10:30	12/12/19 14:47	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	12/11/19 10:30	12/11/19 12:42	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-03-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-11	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.0068	U	1	0.0068	0.10	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010
7440-39-3	Barium	1.23		1	0.040	0.50	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010
7440-43-9	Cadmium	0.0017	U	1	0.0017	0.030	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010
7440-47-3	Chromium	0.013	U	1	0.013	0.050	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010
7439-92-1	Lead	0.014	U	1	0.014	0.060	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010
7439-97-6	Mercury	0.00043	U	1	0.00043	0.0020	mg/L	12/11/19 15:30	12/12/19 12:07	SW7470A
7782-49-2	Selenium	0.056	J	1	0.028	0.10	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010
7440-22-4	Silver	0.0039	J	1	0.0017	0.050	mg/L	12/11/19 15:20	12/11/19 22:24	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

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 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
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 B = Analyte Found in Associated Method Blank
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 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19 13:35
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-12	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.35	H	1	0	0	pH		12/10/19 17:16	9045D
Ignitability	NO		1	0	0	oC		12/11/19 11:40	1030
Reactive Cyanide	0.050	U	1	0.050	0.050	mg/Kg	12/11/19 10:30	12/12/19 14:16	9012B
Reactive Sulfide	10.0	U	1	10.0	10.0	mg/Kg	12/11/19 10:30	12/11/19 12:45	9034

Comments:

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LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	12/09/19
Project:	DDC OEGS - Reconstruction of Schenk Ave	Date Received:	12/10/19
Client Sample ID:	SB-04-COMP	SDG No.:	K6242
Lab Sample ID:	K6242-12	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.0068	U	1	0.0068	0.10	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010
7440-39-3	Barium	2.79		1	0.040	0.50	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010
7440-43-9	Cadmium	0.083		1	0.0017	0.030	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010
7440-47-3	Chromium	0.013	U	1	0.013	0.050	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010
7439-92-1	Lead	0.091		1	0.014	0.060	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010
7439-97-6	Mercury	0.00043	U	1	0.00043	0.0020	mg/L	12/11/19 15:30	12/12/19 12:09	SW7470A
7782-49-2	Selenium	0.15		1	0.028	0.10	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010
7440-22-4	Silver	0.0045	J	1	0.0017	0.050	mg/L	12/11/19 15:20	12/11/19 22:36	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	Clear
Color After:	Colorless	Clarity After:	Clear	Artifacts:	Clear
Comments:	TCLP METALS				

U = Not Detected
 LOQ = Limit of Quantitation
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 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
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UI - PAGES

UTILITY INTERFERENCES SECTION

NOTICE

The PAGES CONTAINED IN THIS SECTION (UI - PAGES) REPRESENT ADDITIONAL CONTRACT REQUIREMENTS APPLYING TO WORK PERFORMED IN THE PRESENCE OF PRIVATELY OWNED UTILITY FACILITIES.

PROJECT ID: HWK797W

(NO TEXT ON THIS PAGE)

UTILITY INTERFERENCES (UI) SECTION

DATED: February 24, 2022

1. The Contractor shall be responsible for compliance with all the provisions of the following Sections and Schedules, which are hereby made a part of the original contract documents:
 - A. “UI SECTION: Additional Contract Requirements Applying to Work
Performed in the Presence of Privately Owned Utility Facilities” (Pages UI-3 through UI-11).
 - B. Schedule U-1 (Page UI-13).
 - C. Consolidated Edison Company Guideline (Page – UI-14 through UI-28)
 - D. Schedule U-2
 - Altice – (Pages UI-29 through UI-31)
 - Con Edison (Pages UI-32 through UI-43).
 - National Grid (Pages UI-44 through UI-46)
 - Verizon (Pages UI-47 through UI-53)
 - E. Schedule U-3 Page UI-54 (as per the Private Utilities reference document for UI SECTION called “CET SPECIFICATIONS AND SKETCHES”, dated November 2010), in this Section UI-Pages; and Test Pits page UI 55; Verizon UI-56 through UI-63, Con Edison UI-64 through UI-68.
 - F. Utility drawings (32 Sheets) consisting of:

Altice – Utility Overlay Plan and Profile	7 (sheets)
Con Edison – CET – 700 Plan	1 (sheets)
Con Edison - Low Tension Mains and Service Plates	5 (sheets)
Con Edison – Conduit and Duct Occupancy Plates	5 (sheets)
Verizon – Special Care Excavation – 1	1 (sheets)
Verizon - Special Care Excavation – 2	1(sheets)
Verizon - Special Care Excavation – 3	1(sheets)
Verizon – Conduit Utility Plates	11 (sheets)

All thirty-two (32) drawings are attached to the Plans.
2. Each facility operator shall provide inspectors at the work site to inspect methods of interference work, verify quantities and items of Utility Work, and coordinate all phases of the facility operator operations.
3. In addition, the following statements are made to provide clarification of various Paragraphs under UI Section:

- A. UI Section, Paragraph 4, requires the Contractor to immediately commence negotiations with each Company for an Interference Agreement under which the Company will compensate the Contractor for any Interference Work which the Company does not elect to perform with its own forces or by specialty contractors retained by the Company. Thus, the Contractor is on notice that its work under the Contract may be affected by Interference Work performed by (a) the Contractor pursuant to a separate Interference Agreement with the Company, (b) the Company, or (c) partly by each.
- B. UI Section, Paragraph 2, informs the Contractor that the duration of the Contract as shown in Schedule A includes the time which may be necessary for the Contractor to perform the necessary Interference Work.
- C. The Contractor is hereby informed that the duration of the Contract as shown in Schedule A includes the time which may be necessary for the Company to perform whatever portion of the Interference Work which the Company elects to perform with its own forces or by specialty contractors retained by the Company.
- D. UI Section informs the Contractor that the City has entered Into an Interference Agreement with the Companies regarding interferences to the City work in this Contract created by the facilities owned and/or operated by such Companies. Pursuant to this Section, a sample of the Utility Agreement letter as executed by the Companies is annexed on page UI-12, as an Exhibit to the Contract. Signed copies of those Utility Agreement letters are on file with New York City Department of Design and Construction (DDC).
- E. The City has no contract with any of the Companies for work on or adjacent to the site of work under this Contract, and the Companies are not "Other Contractors" as defined for the purposes of this Contract. The Contractor is reminded, however, that pursuant to UI Section, Paragraph 4, the City will not compensate the Contractor for any direct and/or indirect costs related to Interference Work, regardless of whether such Interference Work is covered by an Interference Agreement between the Contractor and the Company or is performed by the Company using its own forces or by specialty contractors retained by the Company.
- F. UI Section, Paragraph 14, provides that the provisions of UI Section are material provisions of the Contract and that the Contractor's failure to comply with the procedures set forth in UI Section are sufficient for the Commissioner to declare the Contractor in default pursuant to Article 48 of the Contract.

Pursuant to this Section, the Contractor is informed that the Performance Bond required of the Contractor pursuant to the Contract is not deemed to guarantee performance of any of the Interference Work.

Utility Interferences Section - Additional Contract Requirements Applicable to Work Performed in the Presence of Privately Owned Utility Facilities

The Contractor is hereby notified that pursuant to the law and franchise agreements issued by the City, certain private utility and public service companies named in Schedule U-1 ("the Companies") own and/or operate surface and/or subsurface facilities within the limits of this contract. The existence of these facilities impacts the productivity of the City work called for in the contract. In order to improve coordination of the City construction with the private utility facilities owned and/or operated by the Companies named in Schedule U-1, Article 1.06.30 of the Standard Highway Specifications of the New York City Department of Transportation, Dated August 1, 2015; and/or Articles 10.15 through 10.18 of the Standard Sewer and Water Main Specifications of the New York City Department of Environmental Protection, Dated July 1, 2014; as applicable, are amended and will be implemented as follows:

1. *Pre-engineering:*

The anticipated scopes of private utility facilities interferences and anticipated work items and specifications are included in this contract. The locations of these interferences are indicated on the plans and/or listed in the specifications for this contract, and a schedule of estimated quantities by type of interference expected to be encountered within the limits of this project area have been listed on Schedule U-2. In addition, in Schedule U-3 the Companies have provided standard details and methods for supporting, protecting, relocating, and/or working around their facilities when they are in interference with City contract work.

2. *Means and methods for City work:*

a) The Contractor is hereby notified that the utility interferences identified on the plans and/or listed in the Specifications to be known conditions which may impact the performance of, and/or interferes with, City work. The Contractor will be required to perform such utility work as directed by the Resident Engineer in order to clear all utility interferences from the project site as required for satisfactory completion of City work within specified contract schedule.

b) In areas serviced by overhead lines on poles carrying electric, telecommunication and cable system, the Contractor understands and by bidding for this contract agrees that he/she has reviewed the schedule of estimated quantities by type of interference expected to be encountered within the limits of this project and that he/she will be required to perform the public work in the presence of these overhead lines and appurtenances located in areas adjacent and/or within the project area. As a consequence, he/she will select means and method of construction appropriate to maintain the safety clearances required or as permitted by contract specifications (e.g. "CET 350 – Overhead Accommodation Protection of Overhead Facilities, Poles, and Appurtenances") in order to avoid damaging the insulation or shielding of these lines and also to prevent knocking them down. The duration of the contract

as shown in Schedule A thus includes the time which may be necessary for the Contractor to remove, repair, protect, support, shift, temporarily remove and replace, work around and/or work in the presence of the Companies' facilities ("Interference Work") as described on the plans and/or specifications of the contract during the progress of the City work.

3. *Field inspection prior to construction:*

Prior to the start of any contract work in areas serviced by overhead electric lines, and after the award to the apparent low bidder for this contract, the Contractor must request a field walk of the project area along with the operator of the overhead electrical facilities and the DDC Engineer-In-Charge. At that time the facility operator, pursuant to contract specification (e.g. "CET 350 – Overhead Accommodation Protection of Overhead Facilities, Poles, and Appurtenances") will confirm the type and condition of the overhead electrical lines and the sufficiency of their insulating properties with respect to the means and methods proposed by the Contractor. The Contractor must be prepared to describe in enough details his/her proposed means and methods of construction operations in order to anticipate the likelihood that electric lines insulation would be cut or otherwise compromised. Also, such details will allow the facility operator to anticipate the need for added insulation and/or shielding of non-insulated lines.

4. *Compensation for interference work:*

Compensation for Interference Work is a matter of adjustment between the Contractor and each private utility company located within the limits of the project area and whose utility facilities are affected by City contract work. In particular, the City will not compensate the Contractor for any direct and/or indirect costs related to Interference Work, including, but not limited to, delay, lost profit, increased overhead, or any other impact costs which are deemed to be included in cost agreement between the Contractor and private utility company affected by such work. Upon receipt of a Notice of Award from the City, the Contractor shall immediately commence negotiations with each of the Companies concerning the manner in which and the price for which the Contractor, through its own forces or by others hired by it, will perform and be paid by the Company for all necessary Interference Work as defined above that the Company(ies) choose(s) not to perform with its(their) own forces or by specialty Contractors hired by it (them) (as per "Interference Agreement"). Specialty contractors' work is limited to (i) insulation installation and removal, (ii) live gas and steam work, (iii) cleanup and disposal of hazardous materials, (iv) splicing live electrical and telecommunications facilities, and (v) work not within the competence of general construction contractors.

5. *Interference Agreement:*

a) The Companies have provided estimate of the quantity of each type of interferences expected to be encountered in the contract in Schedule U-2. The parties may negotiate an Interference Agreement in any format or manner they deem fit based on quantities and types of Interferences expected to be encountered on this Contract as stated in Schedule U-2.

b) Furthermore, in Schedule U-3, standard unit work measurement and payment provisions are specified and shall apply only if the Contractor and affected Utility companies enters into a unit price based on an Interference Agreement, otherwise the unit of work measurement, and payment provisions set forth in Schedule U-3 shall not apply. The Contractor shall notify the City upon concluding an Interference Agreement with each of the Companies, which shall be binding and final once concluded.

6. *City contract work to continue without Interference Agreement:*

If, prior to the start of construction, as directed by the City's Order to work / Notice To Proceed (OTW/ NTP) date any of the Companies and the Contractor have not concluded an Interference Agreement as described above, then the City will issue to private utility company (ies) in a written "48 Hours' notice to Public Corporation" in accordance with the Administrative Code of the City of New York. Construction will then proceed as ordered and the Contractor will be directed by the Resident Engineer (RE) to perform the City work on Time, Material and Equipment basis (T&M) as specified in standard City contract agreement Article 26.2. T&M records will include identification of types of utility facilities interfering with City work, utility facility owners, specifying the nature and quantity of any materials, plant and equipment furnished or used in connection with the performance of such work and crew size, such as: name and number of each worker employed on such work. T&M records will also indicate the hours of active time, standby time and idle time. The Company (ies) and the Contractor will maintain separate records of the actual quantity and cost of labor, materials, and equipment expended, and will provide copies of this information to the other party daily for reconciliation. These T&M records along with cost evaluations will be submitted daily to the Resident Engineer for review and approval. The total cost of City work will be based on quantity of work performed multiplied by unit price contract bid items. The total interference cost will be calculated as the difference between the total T&M cost and total cost for City work. The Resident Engineer will conduct a monthly reconciliation session of the daily T&M records with the affected Company (ies) and the Contractor. If the Contractor and affected utility companies cannot reconcile their T&M records, by the last day of each month, then the Resident Engineer will submit the approved City's T&M records along with total cost evaluations to the DDC Director of Construction who will review these records and recommend approval and validity certification by the DDC Construction Assistant Commissioner.

- a) Copies of the DDC approved and certified T&M records will then be transmitted by the DDC to the Contractor and the utility companies. These certified records may be used by the Contractor for compensation claims against the responsible private facility owners, or may be used by any party as supporting documentation in dispute regarding compensation for performing Interference Work as identified in Schedule U-2. The Contractor will be required to perform City work while invoices are submitted by the Contractor to the utility companies for payment within 30 days, or while compensation disputes between the Contractor and affected company (ies) are submitted to Binding Arbitration process described in Paragraph 10.
- b) All issues related to utility work and/or delays due to compensation disputes or claims against utility companies are not allowable as justification for granting contract time extensions or delay claims against the City. The City may assess liquidated damages specified in the contract for net overall delays suffered by City contract work as a result of utility issues, disputes and claims.
- c) The standard City contract dispute resolution process specified in Article 27 "Presentation of disputes to Commissioner", of the standard City contract agreement is not applicable to any disputes related to utility work and/or compensation for such work or claim against utility companies. Utility work issues, disputes and claims may only be submitted to Binding Arbitration process described in Paragraph 10.
- d) The Contractor will notify the Resident Engineer when utility capital work not specified in Schedule U-2 and/or for utility work that require the intervention of company utility specialty crews causes excessive contractor's labor and equipment standby or idleness and, thereby jeopardizing the City project schedule. The Resident Engineer will submit the facts to the DDC Director of Construction who will recommend to the DDC Deputy Commissioner regarding the issuance of a "48 Hours' notice to Public Corporation" to the concerned utility company as authorized by the New York City Administrative Code Section 19-143 and/or Section 24-521 as applicable.
- e) Utility delays caused by utility capital work not listed in Schedule U-2 and/or by unavailability of utility specialty crews cannot be discounted for earning any contractual bonus when such bonus clause is included in a contract. However, if such specified bonus is not earned or is disallowed by the City or if the City assesses specified liquidated damages as a result of such excessive delays, the Contractor may seek damages from the responsible utility company (ies).

7. Extra utility work with Interference Agreement:

If during construction the Contractor encounters utility facilities interferences or utility scope of work that it believes is not covered by the Interference Agreement as described above, then the Contractor shall immediately notify the Company in writing, with a copy to the City, describing the nature and location of the extra work in question. The Company then has five (5) business days to investigate the conditions and then:

- a) Advise the Contractor and the City in writing that no interference with its facilities exists at the location in question, and hence that the Contractor may proceed with City work without providing for any impact from Company facilities;
- b) Advise the Contractor and the City in writing that the Interference Agreement negotiated pursuant to Paragraph 6, above, provides for the scope of work encountered, specifying the exact unit items and/or terms of the agreement that cover the work;
- c) Advise the Contractor and the City in writing that it intends to perform the necessary utility work with company forces or with its own contractor including, but not limited to, relocating its facility out of the way of the proposed City work. In this case, the Company shall provide a written schedule for the performance of the utility work it proposes to perform, which shall be subject to approval by the City based on its impact to the Contractor's currently approved progress schedule. Upon approval of the Company's schedule by the City, the Contractor shall provide access to the worksite to the Company and/or any contractors hired by it to perform this utility work. If necessary, the City may grant a contract time extension for delays caused by the performance of such utility work by the company.
- d) Reasonably specify in writing the scope of work to be performed by the Contractor on behalf of the Company that is not covered under the Interference Agreement negotiated pursuant to Paragraph 6, including, but not limited to, relocating, supporting, and/or protecting the Company's facilities, and/or shifting the City facility if approved by the Resident Engineer, and/or otherwise changing its operations to work in the presence of the Company's facilities. Should the Company elect this option, it must adequately define and provide an initial price offer for the work required to be performed.

8. Means and Methods for utility work:

Upon receipt of the Company's determination pursuant to Paragraphs 7.b, or 7.d, above, the Contractor shall determine reasonable means and methods of performing the work defined by the Company. These means and methods are subject to approval of the Company, which shall not be unreasonably withheld. If, however, the Company objects to the Contractor's proposed means and methods then it shall define an alternate method of construction. Upon receipt of the Company's approval or its proposed alternate method of construction, the Contractor shall commence

performance of the work defined by the Company as soon as possible, and shall perform the work in a good, workmanlike, and efficient manner, using the means and methods approved by the Company, in order to permit the City work to proceed in the most expeditious manner possible, but without imposing unreasonable and/or unnecessary costs on the Company. It is expressly understood by all parties that the City's rights pursuant to Article 4 of the Contract apply to Utility Work performed pursuant to this Section.

9. *Disputed utility work covered by an interference agreement:*

The City Work will continue as described in Paragraph 6 above. In the event of any dispute between the Company (ies) and the Contractor regarding any issue related to the performance of, or payment for, utility work, including, but not limited to, any indirect or impact costs incurred by the Contractor due to the Utility Work and/or to the existence of facilities owned or operated by the Company (ies) on the line of the work. The Company (ies) and the Contractor hereby agree to submit to each other a "Final Offer," in writing, by certified mail. Each party shall then have three business days to consider each other's Final Offer. In the event that neither party accepts the other's Final Offer within those three days, the Company (ies) and the Contractor agree to immediately submit the dispute to binding arbitration as described in Paragraph 10. During the pendency of any arbitration, the Company (ies) and the Contractor shall maintain separate records of the actual quantity and cost of labor, materials, and equipment expended, and to provide copies of this information to the other party on a daily basis for reconciliation. Any and all disagreement with the records maintained and provided by the other, must be documented in writing to all parties. However, these records are solely for the benefit of presentation to the arbitrator, whose decision may not necessarily be based on these records and in any event, is final. Both parties should be aware that the City will not confirm or deny the accuracy of any records that is not certified by DDC. While the arbitration is pending, the Company shall pay the Contractor on a monthly basis, based on the price offered by the Company to the Contractor for the performance of the work.

10. *Arbitration of utility work:*

The arbitration of the issues described above shall be conducted pursuant to the Construction Industry Arbitration Rules of the American Arbitration Association (hereinafter "the Rules" and "AAA") in effect on the date the arbitration is initiated except as set forth herein. The arbitration award shall be final and binding upon the parties to the arbitration and judgment upon the award may be entered in a court having jurisdiction.

- a) Once an arbitrator(s) has been appointed by the AAA, the arbitration shall be scheduled as promptly as possible given the arbitrator(s) and the parties' schedules.
- b) No later than seven days prior to the first arbitration hearing, Company and the Contractor shall submit to the arbitrator(s), and to each other, a summary of each

party's respective position and such other information as is deemed appropriate, along with a copy of each party's Final Offer as specified in Paragraph 9.

c) The arbitration shall be conducted and concluded in two days.

d) On the morning of the first day of the arbitration, the Contractor and/or representatives shall have 3 ½ hrs. to make a presentation of its claim to the arbitrator. During its presentation, the Contractor shall not be permitted to produce any documents or cost records which have not already been provided to the Company. The Contractor shall be permitted to produce any analysis or description of its claim which has been prepared for the purpose of its presentation.

e) Company and/or its representatives shall have two hours to ask the Contractor questions about its claim and its presentation. Thereafter the arbitrator(s) shall have two hours to ask the Contractor questions about its claim and its presentation.

f) On the morning of the second day of the arbitration, Company and/or its representatives shall have 3 ½ hours to make a presentation of its claim to the arbitrator. During its presentation, the Company shall not be permitted to produce any documents or cost records which have not already been provided to the Contractor. The Company shall be permitted to produce any analysis or description of its claim which has been prepared for the purpose of its presentation.

g) The Contractor and/or its representatives shall have two hours to ask Company questions about its claim and its presentation. Thereafter the arbitrator(s) shall have two hours to ask Company questions about its claim and its presentation.

h) Subject to the above time limitations, the arbitrator(s) may conduct the arbitration in such manner as the arbitrator(s) deems reasonable.

i) The arbitrator(s) shall then have one week to select in writing, as the arbitrator ('s) award, that party's Final Offer which appears to be more reasonable, based on the presentations at the arbitration hearings.

j) The arbitrator shall have no discretion to grant an award other than one of the two Final Offers submitted by the parties.

k) Any award for work that has already been performed shall be paid on the 7th day after receipt of the arbitrator's decision, or on the 30th day after completion of the work, whichever is later. Payment for work not yet completed at the time of the arbitrator's decision shall be paid within 30 days of completion of work. Interest shall accrue from the date payment is due at the rate of 9% per annum. Either party may cause judgment to be entered in accordance with the arbitrator(s) decision in a court in the State of New York, County of New York.

l) The arbitrator's fees and any other costs of the arbitration shall be initially shared equally by Company and the Contractor. The non-prevailing party shall then pay all

arbitrator's fees and costs of the arbitration and shall reimburse the prevailing party for its share of such fees and costs theretofore paid.

m) The parties may, at any time, settle any matter submitted to arbitration.

11. Order-out waiver:

The Contractor and all subcontractors hired by it, if an Interference Agreement is executed as specified between the concerned parties, agree to waive any rights they may have, if any, under law, contract or otherwise to compel the City to assert any right the City may have, including the issuance of any directives required under the New York City Administrative Code, Section 19-143 and Section 24-521, to require any or all of the Companies to maintain, repair, replace, protect, support, shift, alter, relocate, and/or remove utility facilities in connection with the work to be performed under this contract. However, nothing in this Section shall preclude the City from exercising its rights under the Law to issue such a directive to the Company.

12. Cost of insurance:

Each of the named Companies, at their option and if an Interference Agreement is executed as specified between the concerned parties, may be named as an additional insured on all insurance policies required to be maintained under this contract. In the event that a Company opts to be so named as an additional insured, the actual incremental cost, if any, to the Contractor of providing such insurance coverage shall be borne by that Company. The Contractor shall provide a written statement from its insurance provider documenting the actual cost of this added coverage to the Company. Under no circumstances shall the cost of insurance coverage on behalf of any Company be borne by the City. Nothing in this paragraph shall be interpreted to imply the City's acceptance of any additional responsibility or liability for any matter related to the performance of Utility Work. In particular, the Company and the Contractor bear joint and full responsibility to ensure that any Utility Work performed by the Contractor is in compliance with all applicable government and Company regulations.

13. Cost of utility interference work:

The Companies, by virtue of participating in design alignment meetings and submitting their scope of Utility Interferences Work to the City, have agreed to perform their obligations described in this Section. It is expressly understood that the cost of Utility Work or any delays caused by such Utility Work shall not be a charge against the City, but shall be a matter for adjustment between the Contractor and the Company or Companies concerned. The City and the Contractor agree that the Companies are third party beneficiaries of this Section of the contract, if an Interference Agreement is executed between the Contractor and utility company (ies). The provisions of this Section shall govern in all cases where Company property interferes with or is about to be disturbed by the City work, notwithstanding any other provision of the Contract,

except for Natural Gas transmission/distribution facilities covered subject to the Gas Facility Cost Allocation Act (GFCAA) and covered separately in this contract.

14. Default declaration:

The Contractor agrees that the provisions of this Section are material provisions of the contract, and that the Contractor's failure to comply with the procedures set forth above are sufficient for the Commissioner to declare the Contractor in default pursuant to Article 48 of the Contract.

15. NYS Labor Law:

The Contractor is hereby advised that New York State Labor Law and/or, Davis-Bacon Act if federally funded, applies to public work. The work described in this Utility Interferences Section of the contract performed by utility company (ies) with their own forces or vendors hired by such company (ies) is not public work.

16. Facility operators:

The insurance requirements in Paragraph 12 of this UI Section apply to: (i) additional Companies, if any, who were not named in Schedule "A" but which have executed an Interference Agreement with the Contractor for utility work; and (ii) additional coverage, if any, paid for by Utility Companies whose utility facilities are located within the project limits, that they may require for the utility work pursuant to an Interference Agreement between the Contractor and such utility company (ies).

(End of Section)

"STANDARD UTILITY LETTER OF AGREEMENT"

Eric MacFarlane, P.E.
Deputy Commissioner, Infrastructure Division
Department of Design and Construction
30-30 Thomson Avenue
Long Island City, NY 11101

RE: City Work Performed in the Presence of Private Utility Facilities
Project No: _____

Dear Mr. MacFarlane:

This letter is to certify that _____, has requested the inclusion of the attached "Utility Interferences (UI) Section: Additional contract requirements applying to work performed in the presence of privately owned utility." The company agrees to abide by the terms of this UI Section at the company's own expenses due to their facilities interferences with the Public work.

Sincerely,

By: Authorized Company Representative

Title

NOTARY PUBLIC

CERTIFIED AS TO FORM
AND LEGAL AUTHORITY:

By: _____

SCHEDULE U-1LISTING OF COMPANIES NAMED FOR THIS CONTRACT

<u>COMPANY NAME</u>	<u>CONTACT NAME</u>	<u>CONTACT TELEPHONE</u>
CONSOLIDATED EDISON	DENNIS BRADY	(917) 608-3435 BradyD@coned.com
VERIZON	AUBREY MAKHANLAL	(516) 758-3705 aubrey.n.makhanlall@verizon.com
ALTICE	AL CLARK	(718) 861-7382 al.clark@alticeusa.com
NATIONAL GRID	NEVILLE JACOBS JR.	(718) 963-75612 Neville.Jacobs@nationalgrid.com



Guideline Document for Public Improvement

CONST- 029 Revision Number 4

Purpose: To update the Public Improvement Contractor Guideline document for safe entry into Sub-Surface Structures and moving energized underground cables.

Revision Date: 7-30-2020 Next Revision Due 7-30-2022
Date:

Supersedes Date: 6-30-2018 Revision Cycle
Period: Once every 2 years

TYPE	NAME	DATE
EH&S	Glenn D. Newell	7/30/2020
Technical	Joseph Bedell, Joseph Bedell Jr. John Stefandl & Marlon Kalloo	7/30/2020
Legal	Inna Rozenberg	7/30/2020

Summary of Changes:

1. Updated Reference Section to Include OSHA 1926 Subpart V
2. Removed Section on Moving Energized U.G. Cables Located Inside Sub-Surface Structures. (Previously Section 4.0 in Revision 3)
3. Updated/Revised Sections 1.4, 2.1, 2.2.2, 3.4, 3.6, 3.8, 3.9, 4.5.5, 4.7 & 4.7.1
4. Added New Section 4.5.4 – HDPE Conduit
5. Added New Chapter 5.0 – Breaking Out a Point of Entry (POE)

Training Requirements - N/A

DOJT/Course #, etc. Associated with this Operating Document:

None

Subject Matter Expert: Marlon Kalloo

Approved Date: 7/30/2020

Approver Name: Theresa Kong

Approved Date: 7/30/2020

UI-14

Consolidated Edison Company of New York, Inc.

Guideline

For

**Safe Entry into Sub-Surface Structures
(Electrical Enclosed Space),**

Moving Energized Underground Cables

Removal of Conduit from Cables, and

Breaking Point of Entry (POE's) Into Sub-Surface Structures

Performed by

Municipal Contractors

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5.0 - Breaking Out a Point of Entry (POE's) in an Electrical Enclose Space

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- 5.2 – Creation of POE Operations

1.0 Definitions

- 1.1 Competent Person-** As a general rule, a Competent Person is an individual who, by way of training and/or experience, is knowledgeable of OSHA and other applicable standards, is capable of identifying workplace hazards relating to the specific operation, and is designated by the employer with the authority to take all appropriate actions necessary to comply with all applicable standards and properly address hazards. Some OSHA standards add additional specific requirements that must be met by the Competent Person.
- 1.2 Attendant -** An authorized individual who is stationed outside a sub-surface structure or an Electrical Enclosed Space to monitor the authorized entrants and to perform duties assigned including providing assistance to individual inside the sub-surface structure or Electrical Enclosed Space.
- 1.3 Electrical Enclosed Space –** OSHA defines an Electrical Enclosed Space as a working space, such as a manhole, vault, tunnel, service box, or shaft, used for the operation and maintenance of electric power generation, transmission, and distribution lines and equipment. An Electrical Enclosed Space has a limited means of egress or entry, and is designed for periodic entry under normal operating conditions. Under normal conditions, an Electrical Enclosed Space does not contain a hazardous atmosphere, but may contain a hazardous atmosphere under abnormal conditions.
- 1.4 CET Specification –** CET Specification defining private utility work within Municipal Construction Contracts.
- 1.5 JB Specification –** Joint Bid specification defining private utility work within a NYC DDC Capital contract.
- 1.6 Public Improvement Representative -** Con Edison employee, (Inspector, Construction Representative, Chief Construction Inspector, Project Specialist, or Manager) assigned to the Public Improvement section.
- 1.7 Municipal Contractor –** Construction municipal contractor performing work for Municipal, State or other Public Agencies or Authorities.
- 1.8 Electrically Competent Qualified Municipal Contractor -** is a Municipal Contractor employee designated and documented by the Municipal Contractor employer, in writing, as the electrically competent and qualified person who, by way of training and/or experience has the skills and techniques necessary to distinguish exposed live parts from other parts of electrical equipment, can identify non-insulated conductors from insulated conductors and/or cables and has the knowledge of the precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools that are required for working on or near exposed energized electrical equipment. The Electrically Competent Qualified Municipal Contractor employee is capable of identifying varying workplace electrical hazards relating to the specific operation and has the authority to take appropriate actions, as required. In order to meet the task specific qualifications of this guideline, the Electrically Competent Qualified Municipal Contractor employee must be familiar with this document and be able to demonstrate adherence.

2.0 References

2.1 OSHA Section 1910.269 – Electric Power Generation, Transmission & Distribution & 1926 Subpart V –Electric Power Transmission and Distribution

2.2 Training- The OSHA Office of Training and Education (OTE) develops, directs, oversees, manages and ensures implementation of OSHA's national training and education policies and programs in support of OSHA's strategic goals with the objective of reducing occupational hazards through direct intervention, promoting a safety and health culture through compliance assistance, cooperative programs and strong leadership and maximizing OSHA effectiveness and efficiency by strengthening capabilities and infrastructure.

All Municipal Contractor employees shall be trained in and familiar with the safety-related work practices, safety procedures, and other safety requirements in section 1910.269(a)(2) and 1926 Subpart V that pertains to the Municipal Contractor employees' respective job assignments. Municipal Contractor employees' shall also be trained in and familiar with any other safety practices, including emergency procedures, such as manhole rescue, that are not specifically addressed by this referenced section but that is related to their work and is necessary for their safety.

Con Edison manhole inspection and underground awareness training can be scheduled through the Con Edison TLC upon request of the municipal contractor. OSHA 10 certification cards and CPR / First Aid training are prerequisites.

2.2.1 Electrically Competent Qualified municipal contractors shall also be trained and competent in:

- a- The skills and techniques necessary to distinguish exposed live parts from other parts of electrical equipment
- b- The skills and techniques necessary to determine exposed live parts from other parts, (determination of non-insulated conductors from insulated conductors / cables).
- c- The knowledge of the precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools that are required for working on or near exposed energized parts of electrical equipment. Generally, the Municipal Contractor will not be required to work on or near exposed/non-insulated energized parts of electrical equipment or cables. In the event special conditions exist requiring working near exposed/non insulated energized parts of electrical equipment or cables, the Municipal Contractor shall cease working and immediately contact the authorized Con Edison Inspector so that a further assessment of the condition can be evaluated, and appropriate guidance provided.
- d- The Electrically Competent Qualified Municipal Contractor employee shall determine, through regular supervision and through inspections conducted on at least an annual basis that each Municipal Contractor employee is complying with the safety-related work practices outlined in this guidance document.

2.2.2 A Municipal Contractor employee shall receive additional training (or retraining) by the Electrically Competent Municipal Contractor under any of the following conditions:

- a- If the Electrically Competent Qualified Municipal Contractor employee indicates that the Municipal Contractor employee is not complying with safety-related work practices
- b- If new technology, new types of equipment, or changes in procedures necessitate the use of safety-related work practices that are different from those which the Municipal Contractor employee would normally use
- c- If the Municipal Contractor employee must employ other safety-related work practices that are not normally used or that require modification from those stated in this guidance document

Note: OSHA requires retraining before commencing with a task that has not been performed within one year.

The required training shall be of the classroom and/or on-the-job type. The training shall establish Municipal Contractor proficiency in the work practices required and shall introduce the procedures necessary for compliance. The Electrically Competent Qualified Municipal Contractor shall certify that each Municipal Contractor employee has received the training required and retains records of this training to be supplied upon request by Con Edison.

3.0 Safe Entry into Sub-Surface Structures, (Electrical Enclosed Space)

3.1 Purpose: To establish a guideline that shall be employed for safe entry into Con Edison sub-surface structures by Municipal Contractors.

3.2 Application: Municipal Contractor personnel

3.3 Guideline: This guideline provides the requirements for practices that shall be employed for safe entry into Con Edison sub-surface structures. Municipal Contractor personnel requiring entry into Con Edison sub-surface structures shall adhere to this guideline.

3.4 Inspection/Testing

Prior to entry into a Con Edison sub-surface structure, properly trained and qualified Con Edison electrical personnel must conduct an inspection. The assessment will determine if the condition of the electrical facilities contained therein is sufficient to allow need based unrestricted access. Con Edison electrical personnel shall validate that the Con Edison sub-surface structure inspected is approved for need based unrestricted access. The Con Edison Inspector shall communicate and document to an Electrically Competent Municipal Contractor personnel any safety precautions to be taken and that the subsurface structure is safe for entry. Any condition deemed to be un-safe through this formal inspection process would preclude granting access.

An inspection must take place daily prior to Municipal Contractor entry. Once the cover is placed on the electric subsurface structure another inspection must occur prior to Municipal Contractor entry. Inspections include but are not limited to:

- 1) Testing for stray voltage by a qualified Con Edison employee or qualified Municipal Contractor employee.
- 2) Completion of atmospheric testing.
- 3) Determination that it is safe to enter the space.
- 4) A visual inspection for any abnormalities previously defined.
- 5) Communication of inspection results and hazards to the Con Edison inspectors and the municipal contractor supervisor.

3.5 Job Briefing

The Electrically Competent Qualified Municipal Contractor in charge shall conduct a job briefing with the municipal contractor's employees involved before they start the job. The briefing shall cover: the hazards associated with the job; work procedures involved; special precautions; and personal protective equipment requirements. The Electrically Competent Qualified Municipal Contractor shall instruct that all cables are to be treated as energized. Additional briefings shall be held if significant changes, which might affect the safety of the municipal contractor's employees, occur during the course of the work. The Electrically Competent Qualified Municipal Contractor shall document completion of the job briefing. A copy of the documented job briefing should be available upon request by Con Edison.

3.6 Attendants

While work is performed in a Con Edison sub-surface structure, a Municipal Contractor Attendant shall be available in the immediate vicinity to render emergency assistance. Sub-surface structure Attendants shall comply with applicable OSHA requirements.

3.7 Hazardous Atmosphere

Municipal Contractor personnel shall perform a hazardous atmosphere test before entry into any Con Edison sub-surface structure and perform continuous air monitoring in compliance with applicable OSHA requirements. Any atmospheric reading deemed to be un-safe would prohibit access to the structure. The Municipal Contractor shall immediately notify the authorized Con Edison Inspector.

3.8 Personal Protective Equipment

Municipal Contractor personnel requiring entry into Con Edison sub-surface structures shall refer to and comply with applicable OSHA requirements regarding the use of Personal Protective Equipment when performing this work. In addition, Con Edison is requiring that Municipal Contractor personnel assigned to work inside Con Edison sub-surface structures shall at all times wear Flame Resistant (FR) Clothing with a rating of 8 cal/cm² or HR2, a retrieval harness and that a retrieval device be on location. In addition, an atmospheric tester

must be in use continuously anytime a structure is occupied. See section 3.9 for Matrix on Con Edison's Personal Protective Equipment Guideline.

3.9 Con Edison Personal Protective Equipment Guideline

	Task	Class 0 Gloves	FR Clothing	FR Hood	Blast Goggles	Face Shield	Safety Glasses
1	Pavement breaking	N	N				Y
2	Breaking out concrete encased duct	Y	Y				Y
3	Moving energized primary cables that are located outside a structure while in proximity to joints	Y	Y	Y	Y		
4	Moving primary cables outside a structure (no joints involved)	Y	Y				Y
5	Moving energized secondary cables	Y	Y				Y
6	Hand excavate to locate precast ducts	N	N				Y
7	Hand excavate to locate direct buried cables	Y	Y				Y
8	Removing cable from conduit	Y	Y				Y
9	Breaking structure for POE from outside/inside	Y	Y			Y	Y
10	Breaking sub-structure walls	Y	Y				Y
11	Pulling rope within structure with energized cable	Y	Y				Y
12	Pulling rope in enclosed spaces	Y	Y				Y
13	Building a bench or platform within a subsurface structure to support or protect cables.	Y	Y				Y
14	Breaking out unknown precast electric duct	Y	Y				Y
15	Using digging bar over electric facility	Y	N				Y
16	Using digging bar over direct buried cables	Y	Y				Y
17	Using Pneumatic clay digger in vicinity of electric facility	Y	Y				Y
18	Installing forms for field-constructed sub-surface structures from inside the designed footprint when connected cables are present	Y	Y				Y
19	Installing forms for field-constructed subsurface structures from outside the designed footprint when connected cables are present	N	N				Y
20	Installing forms for field-constructed subsurface structure prior to first energization of new cables	N	N				Y
21	Saw cutting operation	Y	N				Y
22	Hand excavate to locate cable fault	Y	Y				Y
23	Hand excavating to find service dead leg	Y	Y				Y
24	Removing underground silo	Y	Y				Y
25	Regrade	Y	N				Y
26	Build/remove shunt box w/ energized cable inside	Y	Y				Y

3.10 Access

Municipal Contractor personnel shall not climb into or out of Con Edison sub-surface structures by stepping on cables or hangers.

4.0 Removal of Conduit from Cables and Moving Energized Underground Cables Located Outside of Subsurface Structures

4.1 Purpose: Establish a guideline that shall be employed by Electrically Competent Qualified Municipal Contractor personnel, meeting OSHA training requirements, when removing conduit from cables and moving Con Edison energized underground cables located outside structures.

4.2 Application: Municipal Contractor personnel

4.3 Guideline: This guideline details the requirements for practices that shall be employed when moving Con Edison energized underground cables located outside of Con Edison structures. Movement of energized cables on the Con Edison system shall be performed in accordance with the following directions. Only Electrically Competent Qualified Municipal Contractor personnel who have been trained and meet necessary OSHA requirements for moving energized underground cables and in accordance with the following directions shall perform movement of energized cables on the Con Edison system.

4.4 Job Briefing

The Electrically Competent Qualified Municipal Contractor in charge shall conduct a job briefing with the Municipal Contractor's employees involved before they start the job. The briefing shall cover: the hazards associated with the job; work procedures involved; special precautions; and personal protective equipment requirements. The Electrically Competent Qualified Municipal Contractor shall instruct that all cables are to be treated as energized. Additional briefings shall be held if significant changes, which might affect the safety of the Municipal Contractor's employees, occur during the course of the work. The Electrically Competent Qualified Municipal Contractor shall document completion of the job briefing.

4.5 Removal of Conduit from Cables

All subsurface electric cable systems and related components shall be considered energized. Caution shall always be employed whenever conduits are opened to expose the interior cable.

4.5.1- Pre-cast Concrete Conduit

- a- The conduit shall be fractured by striking the top end corner of the conduit with a 3 lb. hammer equipped with a non-conductive handle. When fracturing the conduit, all impact/chipping action shall be performed in such a manner so as to be directed across the top of the conduit away from any cable that may be inside of the conduit.
- b- A small piece of the concrete conduit shall be chipped away so that a visual examination of the interior of the conduit can be made to verify the presence of cable. All impact/chipping actions shall be performed in such a manner so as to be directed across the top of the duct, away from the cable.

- c- If cable is present, concrete-chipping operations shall continue until enough material has been removed to permit insertion of a non-conductive protective shield barrier between the conduit and cable or as directed by the authorized Con Edison Inspector based on existing field conditions. Material such as exterior grade plywood or lumber (min. thickness $\frac{3}{4}$ ") or suitably reinforced plastic sheet material (min. thickness 0.060" – e.g. Norplex Micarta RT504 NEMA Grade G-3) shall be used for this purpose. This shield material shall provide protection for the cable during the remaining conduit removal operations. The remainder of the conduit shall be fractured using the 3 lb. hammer equipped with a non-conductive handle. Care shall be taken so as to avoid any impact upon the cable, either by direct or indirect hammer blows.
- d- During and after conduit removal operations, cable/conduit shall be properly supported as indicated in Section 5.7, below.

4.5.2 - Concrete Encased Conduit

- a- The concrete encased conduit (including but not limited to pre-cast, fiber, tile, clay), shall be fractured by striking the top end corner of the conduit with a 3 lb. hammer equipped with a non-conductive handle. When fracturing the conduit, all impact/chipping action shall be performed in such a manner so as to be directed across the top of the conduit away from any cable that may be inside of the conduit.
- b- For concrete encased conduit, it may be necessary to employ a handheld cold chisel (in conjunction with the 3 lb. hammer) to remove concrete encasement. If a chisel is utilized, all impact/chipping actions shall be performed in such a manner so as to be directed across the top of the duct, away from the cable.
- c- If the concrete encasement is so dense as to render the use of a hammer and handheld chisel non-effective, an 8-pound sledgehammer may be employed. If neither of these devices proves effective, the use of a pneumatic chipping hammer will be permitted. The weight/size of the pneumatic chipping hammer shall not exceed 20 lbs. When utilizing a pneumatic chipping hammer, the device shall be securely positioned and be under close operator control at all times. The tool bit used for these operations shall be chisel shaped with a minimum width of two (2") inches. All impact/chipping actions shall be performed in such a manner so as to be directed across the top of the duct, away from the cable.
- d- A small piece of the concrete conduit shall be chipped away so as to permit verification of the presence of cable inside the conduit.
- e- If cable is present, concrete-chipping operations shall continue until enough material has been removed to permit insertion of a non-conductive protective shield barrier between the conduit and cable or as directed by the authorized Con Edison Inspector

based on existing field conditions. Material such as exterior grade plywood or lumber (min. thickness $\frac{3}{4}$ ") or suitably reinforced plastic sheet material (min. thickness 0.060" – e.g. Norplex Micarta RT504 NEMA Grade G-3) shall be used for this purpose. This shield material shall provide protection for the cable during the remaining conduit removal operation.

- f- After installation of the shield material has been completed, continue removal of remaining conduit and encasement, using handheld and power tools.
- g- During and after conduit removal operations, cable/conduit shall be properly supported as indicated in Section 5.7, below.

4.5.3 – Wood Conduit

- a- Wooden conduit shall be split using a handheld cold chisel and a 3 lb. hammer equipped with a non-conductive handle. All impact/chipping action shall be performed in such a manner so as to be directed across the top of the conduit away from the cable.
- b- The chisel shall use to create a small window in the conduit that will permit a visual inspection of the conduit interior for the presence of cable.
- c- If cable is present, wood conduit material shall continue to be removed until enough material has been removed to permit insertion of a non-conductive protective shield barrier between the conduit and cable or as directed by the authorized Con Edison Inspector based on existing field conditions. Material such as exterior grade plywood or lumber (min. thickness $\frac{3}{4}$ ") or suitably reinforced plastic sheet material (min. thickness 0.060" – e.g. Norplex Micarta RT504 NEMA Grade G-3) shall be used for this purpose. This shield material shall provide protection for the cable during the remaining conduit removal operation.
- d- After installation of the shield material has been completed, continue removal of remaining conduit
- e- During and after conduit removal operations, cable/conduit shall be properly supported as indicated in Section 5.7, below.

4.5.4 – HDPE Conduit

- a- HDPE conduit shall be split using hand tools or a handheld pneumatic rotary cutting tool. All splitting/cutting actions shall be performed in such a manner so as to be directed across the top of the duct, away from the cable.
- b- Pneumatic Rotary Cutting Tool – A pneumatic rotary cutting tool shall be used to score an access area in the surface of the conduit., Prior to application of the cutting tool to the surface of the

conduit, the depth collar on the pneumatic rotary cutting tool shall be set so that the cutting bit will penetrate approximately $\frac{3}{4}$ of the wall thickness of the conduit. After the conduit has been cut to the maximum depth allowable (such that the bit does not fully penetrate the thickness of the conduit), a 3 lb hammer shall be used to knock out the access area (window) outlined by the cutting tool. This will permit visual inspection of the conduit interior for the presence of cable.

- c- If inspection of the interior of the conduit reveals that cable is present, a non-conductive protective shield barrier shall be inserted into the conduit between the conduit and cable. This shield material shall provide protection for the cable during the remaining conduit removal operations. Material such as exterior grade plywood or lumber (min. thickness $\frac{3}{4}$ ") or suitably reinforced plastic sheet material (min. thickness 0.060" – e.g. Norplex Micarta RT504 NEMA Grade G-3) shall be used for this purpose. This shield material shall provide protection for the cable during the remaining conduit removal operations.
- d- If inspection of the conduit interior does not reveal the presence of cable, the remaining conduit may be removed using the tool choices mentioned in 4.5.4.a.

4.5.5 - Metal Conduit

- a. When removing metal conduit, the Municipal Contractor should first excavate and expose a collar connecting two sections of conduit. Once the collar is accessible, split and/or cut the collar off to inspect the conduit interior for the presence of cable. If a metal conduit collar is NOT easily accessible, or found within 20 to 40 feet of open excavation, proceed to section 4.5.5.b. Note: If the work to be performed is in response to a suspected natural gas leak or in the presence of natural gas, only the use of non-powered hand tools is allowed. Further guidance will be provided by Gas Engineering.
- b. If a collar connecting two sections of conduit cannot be found, metal conduit will be split using hand tools and/or a handheld rotary cutting tool. All splitting actions will be directed across the top of the conduit, away from the cable. Note: If the work to be performed is in response to a suspected natural gas leak or in the presence of natural gas, only the use of non-powered hand tools is allowed. Further guidance will be provided by Gas Engineering.
- c. Score the outline of an access area onto the surface of the conduit. Do not fully penetrate the conduit with the tool while making this outline.
- d. Use this outline as a guide for further splitting and cutting operations that will eventually create a viewing window into the conduit.

- e. If inspection of the conduit interior reveals the presence of cable, insert a non-conductive protective barrier between the cable and conduit wall. The barrier will provide physical protection for the cable during remaining conduit removal operations. Materials including, but not limited to, exterior grade plywood, lumber, and Norplex Micarta are acceptable. After the installation of the non-conductive protective barrier, the removal of the remaining conduit may proceed using the tool choices mentioned in section 5.5.4b.
- f. If inspection of the conduit interior does not reveal the presence of cable, the remaining conduit may be removed using the tool choices mentioned in section 4.5.5b.

4.6 Visual Inspection

- a- A visual inspection of cables located outside Con Edison structures that will be moved, shall be performed by Electrically Competent Qualified Municipal Contractor personnel or the authorized Con Edison Inspector.
- b- After the conduits have been broken out (removed from the cables), the exposed cable(s) shall be inspected by the Electrically Competent Qualified Municipal Contractor personnel.
- c- The cables shall be visually inspected by the Electrically Competent Qualified Municipal Contractor personnel, and determined to be free from any of the defects that would prevent relocation. Cable(s) shall be free of cracks, tears, and evidence of oil stains, swelling, or melting of the insulation. Cables shall not have any exposed conductor.

4.7 Cable Moving Operations – Outside Structures

- a- Prior to moving any cables outside of a subsurface structure, the cables located within the associated connecting subsurface structures shall be inspected in accordance with the guideline requirements for moving cables within Con Edison sub-structures.
- b- Municipal Contractor personnel experienced in moving Con Edison cables only shall move cables.
- c- Cables shall not be moved until plastic “fair-leaders” are positioned at the duct edges to prevent chaffing damage.
- d- Synthetic web slings having a minimum width of two (2) inches shall support cables that have been removed from conduit. Slings shall be used in a basket hitch configuration.
- e- Conduits housing cables shall be supported using slings, cable, or rope. Conduits shall be supported in such manner as to maintain alignment with one another.
- f- Maximum distance between support points shall be four (4) feet.

- g- To prevent inadvertent over bending of the cables, the maximum vertical or horizontal offset between supports shall be one foot (1') for cable that is supported outside of conduit. For cable that is being moved while still installed in conduit, the conduit shall not be offset more than one foot per four-foot section of conduit.
- h- Each set of cables (cables from one duct/conduit) shall be moved individually. Cables from multiple ducts/conduits shall not be moved as a bundle.
- i- Relocation of cables shall be performed in a careful manner with the movement of cable under complete control at all times. There shall be no sudden movements of the cable or the conduit that contains cable.
- j- An observer shall be positioned so as to determine proper slack in structures and to ensure that joints remain properly supported on rack arms and specified offsets are maintained. This observation shall be performed from outside of the structure while the cable is being moved.
- k- Allowable horizontal and vertical offsets shall be determined based on applicable CET or JB item sketches and/or as directed by the authorized Con Edison Inspector.
- l- Cables shall not be permitted to fall freely from temporary supports.
- m- All cables supported by slings shall be visually inspected at the beginning and end of each work shift to ensure that no cracks, leaks, or other defects have developed.
- n- Cables shall be repositioned with care when being moved into their final position for the installation of split conduit.

4.7.1 Personal Protective Equipment

Municipal Contractor personnel moving Con Edison energized cables shall refer to and comply with applicable OSHA requirements regarding the use of Personal Protective Equipment when performing this work. See Section 3.9 for Matrix on Con Edison's Personal Protective Equipment Guideline.

5.0 Breaking Out a Point of Entry (POE's) in an Electrical Enclosed Space

5.1 Activities Prior to creating POE's

- 5.1.1** Prior to creating POE's, the location of all conduit and cable passing through the section of the wall shall be visually identified and protected inside structure.
- 5.1.2** If any cables are required to be moved prior to creation of a POE, they shall be moved by properly trained and qualified Con Edison electrical personnel.

5.2 Creation of POE Operations

5.2.1 Using caution, expose the exterior section of the wall that you intend to create the POE (typically done in 2' – deep vertical sections) by carefully excavating on the outside of the structure.

5.2.2 When there is a potential for contact between the existing cables that have been visually identified and the tool being used to break out the POE, protect the cables using fire rated wood, phenolic board, cable shields or other acceptable non-conductive materials. Along with protecting the cable from coming in contact with the implement being used for breaking, cables on the walls in the POE area shall also be protected from falling debris using FR wood even if there is no potential for contact with said cables.

5.2.3 Once the following conditions have been satisfied:

5.2.3.1 Location of cables inside the structure and the associated conduit outside have been verified.

5.2.3.2 Protection of cable on both the inside and the outside of the structure walls

5.2.3.3 Structural integrity of the proposed POE area has been confirmed using hand tools

Then use the appropriate tool (up to and including a 90 lb. jackhammer) to create the POE on the section of structure wall that was previously prepared.

5.2.4 If a jackhammer is being used for the POE breakout operation, where feasible, support the tool from underneath to prevent slippage.

5.2.5 Where possible, the use of a 90 lb. jackhammer shall be avoided within 8" of a live conduit. If the competent person determines that the breakout can only be made using a jackhammer within 8" of live conduit, a physical barrier must be placed between the jackhammer and all facilities that could possibly come in contact with the jackhammer. The Municipal Contractor may then begin utilizing the 90 lb. jackhammer using a 3" bit or wider.

SCHEDULE U-2

ALTICE

Sep-19

HWK797W
 Reconstruction of Schenck Ave
 BOROUGH OF BROOKLYN

ITEM	DESCRIPTION	UNITS	ESTIMATED QUANTITY
100.1	Utilities Crossing Trench for Chase Connection	EA	2
101.1	Utilities Crossing Trench for Sewers up to and including 24" Diameter (Up to 0.75 SF)	EA	1
350	Overhead Accommodation Protection of Overhead Facilities, Poles and Appurtenances	LS	1
636 66 SW	Adjustment of Utility Hardware in Sidewalk (34" to under 41" width)	EA	1
802A	Special Care Excavation and Restoration for Sidewalk Work	SF	20
802B	Special Care Excavation and Restoration for Curb Work	LF	4

ALTICE

SEPTEMBER 2019

HWK797W
Reconstruction of Schenck Avenue
Borough of Brooklyn

Schedule U: Scope of Work

CET 100.1**TRENCH CROSSINGS SUPPORT AND PROTECTION OF UTILITY FACILITIES**

AT FOLLOWING LOCATIONS DIRECTED BY ALTICE REPRESENTATIVE:

	QTY(EA)
SCHENCK AVE & STANLEY AVE (U4)	1
SCHENCK AVE & WORTMAN AVE (U5)	1

<u>CET100.1</u>	<u>TOTAL</u>	<u>2</u>
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CET 101.1**TRENCH CROSSINGS SUPPORT AND PROTECTION OF UTILITY FACILITIES**

AT FOLLOWING LOCATIONS DIRECTED BY ALTICE REPRESENTATIVE:

	QTY(EA)
SCHENCK AVE & LINDEN BLVD (U3)	1

<u>CET101.1</u>	<u>TOTAL</u>	<u>1</u>
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CET 350**OVERHEAD ACCOMODATION AND PROTECTION OF OVERHEAD FACILITIES, POLES AND APPURTENANCES**

AT FOLLOWING LOCATIONS ON DDC PROVIDED DESIGN:

SCHENCK AVE (U1-U3, U5 & U7)

	QTY(LS)
AS ENCOUNTERED & DIRECTED BY THE ALTICE REPRESENTATIVE	1

<u>CET350</u>	<u>TOTAL</u>	<u>1</u>
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ALTICE**SEPTEMBER 2019****CET 636 EE SW
ADJUSTMENT OF UTILITY HARDWARE**

AT FOLLOWING LOCATIONS DIRECTED BY ALTICE REPRESENTATIVE:

SCHENCK AVE & WORTMAN AVE (SHEET 26)

QTY(EA)
1CET636EE SWTOTAL1**CET 802A
SPECIAL CARE MODIFICATION OF WORK FOR INSTALLATION OF NEW CURBS AND
SIDEWALKS**

AT FOLLOWING LOCATIONS DIRECTED BY ALTICE REPRESENTATIVE:

SCHENCK AVE & WORTMAN AVE (SHEET 26)

QTY(SF)
20CET802ATOTAL20**CET 802B
SPECIAL CARE MODIFICATION OF WORK FOR INSTALLATION OF NEW CURBS AND
SIDEWALKS**

AT FOLLOWING LOCATIONS DIRECTED BY ALTICE REPRESENTATIVE:

SCHENCK AVE & WORTMAN AVE (SHEET 26)

QTY(LF)
4CET802BTOTAL4

UTILITY INTERFERENCE

ENGINEER'S ESTIMATE OF QUANTITY AND TYPES OF INTERFERENCE
FOR CONSOLIDATED EDISON

HWK797W

RECONSTRUCTION OF SCHENCK AVENUE

CET ITEM	DESCRIPTION	UNITS	ESTIMATED QUANTITY
CET 100.1	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .1)	EA	2
CET 100.2	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .2)	EA	3
CET 100.3	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .3)	EA	5
CET 101.1	UTILITIES CROSSING TRENCH FOR SEWERS UP TO AND INCL. 24" DIAMETER (TYPE .1)	EA	7
CET 101.2	UTILITIES CROSSING TRENCH FOR SEWERS UP TO AND INCL. 24" DIAMETER (TYPE .2)	EA	1
CET 200.1	EXTRA DEPTH EXCAVATION OF CATCH BASIN CHUTE CONNECTIONS (INVERT DEPTH 4'-6" TO 5' FOR TYPE 2 OR UP TO 5'-6 FOR TYPE 3)	LF	25
CET 225.1A	INSTALLATION AND REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES	EA	7
CET 225.1B	INSTALLATION OF CATCH BASINS WITH UTILITY INTERFERENCES	EA	4
CET 225.1C	REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES	EA	1
CET 300	SPECIAL CARE EXCAVATION AND BACKFILLING	CY	23
CET 304 A	FURNISH, DELIVER AND INSTALL CONCRETE ROAD BASE	CY	8
CET 305	FURNISH AND INSTALL ASPHALT PAVING MIXTURE	TONS	5
CET 330E-B.2	SUPPORT & PROTECT ELEC, GAS & STEAM FAC. DURING EXCAVATION OF CITY TRENCH WHEN FAC. LIE W/IN TRENCH LIMITS W/ SHEETING (TYPE .2)	LF	35
CET 350	OVERHEAD ACCOMMODATION, PROTECTION OF OVERHEAD FACILITIES, POLES AND APPURTENANCES	LS	1
CET 351	INSTALL AND REMOVE "A" FRAME ON UTILITY POLES	EA	5
CET 401	TRENCH EXCAVATION FOR ADJUSTMENT OF UTILITY FACILITIES	CY	99
CET 402.2	EXISTING OCCUPIED NON-CONCRETE ENCASED CONDUITS PLACED IN FINAL POSITION W/O CONCRETE ENCASEMENT	LF	490

September 11, 2019

UTILITY INTERFERENCE

ENGINEER'S ESTIMATE OF QUANTITY AND TYPES OF INTERFERENCE
FOR CONSOLIDATED EDISON

HWK797W

RECONSTRUCTION OF SCHENCK AVENUE

CET ITEM	DESCRIPTION	UNITS	ESTIMATED QUANTITY
CET 403	PLACING STEEL PROTECTION PLATES FOR UTILITY FACILITIES	SF	60
CET 450.1	CONSTRUCTION FIELD SUPPORT REQUIRING AVERAGE SIZE SURVEY CREW PERFORMING TYPICAL SURVEY FUNCTIONS (TYPE .1)	CRHRS	1
CET 450.2	CONSTRUCTION FIELD SUPPORT REQUIRING AVERAGE SMALL SIZE CREW CAPABLE OF PERFORMING VARIOUS TASKS (TYPE .2)	CRHRS	1
CET 450.3	CONSTRUCTION FIELD SUPPORT REQUIRING AVERAGE MEDIUM SIZE CREW CAPABLE OF PERFORMING VARIOUS TASKS (TYPE .3)	CRHRS	1
CET 500	REMOVAL OF ABANDONED UTILITY CONDUITS (NON-CONCRETE ENCASED)	LF	1,230
CET 501	REMOVAL OF ABANDONED MASONRY FOR ELEC. AND TEL. FACILITIES	CY	4
CET 636 ED RD	ADJUSTMENT OF UTILITY HARDWARE IN ROADWAY (30" TO UNDER 34" WIDTH)	EA	11
CET 636 ED SW	ADJUSTMENT OF UTILITY HARDWARE IN SIDEWALK (30" TO UNDER 34" WIDTH)	EA	1
CET 636 EH RD	ADJUSTMENT OF UTILITY HARDWARE IN ROADWAY (75" TO UNDER 125" WIDTH)	EA	1
CET 636 MD	MOD. OF WORK METHODS TO ACCOMM. UTILITY STREET HARDWARE DURING PAVE MILL. & RESURF. OPS. (30" TO UNDER 34" WIDTH)	EA	3
CET 636 RM	REBUILDING & MODIFICATIONS OF UTILITY STRUCTURE	CY	7
CET 700	SPECIAL MOD. OF WORK METHODS TO ACCOMM./ PROTECT U.G. FACILITIES WITH LIMITED COVER	CY	82
CET 781	REMOVABLE CURB SIDEWALK PANEL FOR ACCESS TO UTILITY STRUCTURE OPENINGS	EA	1
CET 798	MODIFICATION OF NON CONCRETE YOKE TROLLEY STRUCTURES REMOVAL WHEN CROSSING UTILITY FACILITIES	LF	66
CET 802A	SPECIAL MODIFICATION OF WORK FOR INSTALLATION OF NEW SIDEWALKS	SF	619
CET 802B	SPECIAL MODIFICATION OF WORK FOR INSTALLATION OF NEW CURBS	LF	1,012

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**CON EDISON SCOPE OF WORK
SUPPORT AND PROTECTION
HWK797W
RECONSTRUCTION OF SCHENCK AVENUE**

CET 100.1	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .1) <i>At the following locations:</i> N/W/C Intr Liberty Ave. and Schenck Va S/O Wortman Ave.; W/S Schenck Ave. Total Quantity for CET 100.1 = 2	EA
CET 100.2	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .2) <i>At the following locations:</i> N/W/C Intr Glenmore Ave. and Schenck Ave. S/E/C Intr Glenmore Ave. and Schenck Ave. N/S Cozine Ave.; E/O Schenck Ave. Total Quantity for CET 100.2 = 3	EA
CET 100.3	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .3) <i>At the following locations:</i> N/S Glenmore Av; W/O Schenck Av; F/O # 579 N/E/C Intr Glenmore Ave. and Schenck Ave. N/W/C Intr Stanley Ave. and Schenck Ave. S/W/C Intr Stanley Ave. and Schenck Ave. N/W/C Intr Wortman Ave. and Schenck Ave. AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 100.3 = 5	EA
CET 101.1	UTILITIES CROSSING TRENCH FOR SEWERS UP TO AND INCL. 24" DIAMETER (TYPE .1) <i>At the following locations:</i> N/W/C Intr Pitkin Ave. and Schenck Ave. S/O Pitkin Ave.; W/S Schenck Ave. S/O Pitkin Ave.; W/S Schenck Ave. 120' S/O Linden Blvd; C/O Schenck Av; F/O # 797 40' N/O Stanley Ave; C/O Schenck Ave; S/O #693 130' S/O Wortman Av; C/O Schenck Ave.; F/O # 270 N/O Cozine Av; C/O Schenck Ave. AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 101.1 = 7	EA

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**CON EDISON SCOPE OF WORK
SUPPORT AND PROTECTION
HWK797W
RECONSTRUCTION OF SCHENCK AVENUE**

CET 101.2	UTILITIES CROSSING TRENCH FOR SEWERS UP TO AND INCL. 24" DIAMETER (TYPE 2)	EA
	<i>At the following locations:</i>	
	S/W/C Intr Glenmore Ave. and Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 101.2 = 1	
CET 200.1	EXTRA DEPTH EXCAVATION OF CATCH BASIN CHUTE CONNECTIONS (INVERT DEPTH 4'-6" TO 5' FOR TYPE 2 OR UP TO 5'-6" FOR TYPE 3)	LF
	<i>At the following locations:</i>	
	N/S Cozine Ave.; E/O Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 200.1 = 25	
CET 225.1A	INSTALLATION AND REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES	EA
	<i>At the following locations:</i>	
	N/W/C Intr Liberty Ave. and Schenck Va	
	S/O Pitkin Ave.; W/S Schenck Ave.	
	N/E/C Intr Stanley Ave. and Schenck Ave.	
	N/W/C Intr Wortman Ave. and Schenck Ave.	
	N/W/C Intr Wortman Ave. and Schenck Ave.	
	S/O Wortman Ave.; W/S Schenck Ave.	
	N/S Cozine Ave.; E/O Schenck Ave.	
	Total Quantity for CET 225.1A = 7	
CET 225.1B	INSTALLATION OF CATCH BASINS WITH UTILITY INTERFERENCES	EA
	<i>At the following locations:</i>	
	N/W/C Intr Stanley Ave. and Schenck Ave.	
	S/O Stanley Ave.; W/S Schenck Ave.	
	S/S Stanley Ave.; W/O Schenck Ave.	
	N/S Wortman Ave.; 40' E/O Schenck Ave.	
	Total Quantity for CET 225.1B = 4	
CET 225.1C	REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES	EA
	<i>At the following locations:</i>	
	N/W/C Intr Stanley Ave. and Schenck Ave.	
	Total Quantity for CET 225.1C = 1	

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**CON EDISON SCOPE OF WORK
SUPPORT AND PROTECTION
HWK797W
RECONSTRUCTION OF SCHENCK AVENUE**

CET 300	SPECIAL CARE EXCAVATION AND BACKFILING	CY
	<i>At the following locations:</i>	
	S/W/C Intr Glenmore Ave. and Schenck Ave.	
	N/W/C Intr Pitkin Ave. and Schenck Ave.	
	N/W/C Intr Pitkin Ave. and Schenck Ave.	
	N/S Pitkin Av; W/O Schenck Av; F/O # 2271	
	235' S/O Stanley Ave.; W/S Schenck Ave.; F/O # 670	
	80' N/O Wortman Ave.; W/S Schenck Ave.	
	N/E/C Intr Wortman Ave. and Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 300 = 23	
CET 304 A	FURNISH, DELIVER AND INSTALL CONCRETE ROAD BASE	CY
	<i>At the following locations:</i>	
	N/W/C Intr Liberty Ave. and Schenck Va	
	S/O Pitkin Ave.; W/S Schenck Ave.	
	N/W/C Intr Wortman Ave. and Schenck Ave.	
	N/S Wortman Ave.; 40' E/O Schenck Ave.	
	Total Quantity for CET 304 A = 8	
CET 305	FURNISH AND INSTALL ASPHALT PAVING MIXTURE	TONS
	<i>At the following locations:</i>	
	N/W/C Intr Liberty Ave. and Schenck Va	
	S/O Pitkin Ave.; W/S Schenck Ave.	
	N/S Wortman Ave.; 40' E/O Schenck Ave.	
	Total Quantity for CET 305 = 5	
CET 330E-B.2	SUPPORT & PROTECT ELEC, GAS & STEAM FAC. DURING EXCAVATION OF CITY TRENCH WHEN FAC. LIE W/IN TRENCH LIMITS W/ SHEETING (TYPE .2)	LF
	<i>At the following locations:</i>	
	N/S Wortman Ave.; 40' E/O Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 330E-B.2 = 35	

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CET 350	OVERHEAD ACCOMMODATION, PROTECTION OF OVERHEAD FACILITIES, POLES AND APPURTENANCES <i>At the following locations:</i> Various AS SHOWN ON CONTRACT DOCUMENTS Total Quantity for CET 350 = 1	LS
CET 351	INSTALL AND REMOVE "A" FRAME ON UTILITY POLES <i>At the following locations:</i> N/O Glenmore Av; E/S Schenck Av; S/O # 581 S/W/C Intr Glenmore Ave. and Schenck Ave. S/E/C Intr Glenmore Ave. and Schenck Ave. N/W/C Intr Wortman Ave. and Schenck Ave. N/E/C Intr Cozine Ave. and Schenck Ave. AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 351 = 5	EA
CET 401	TRENCH EXCAVATION FOR ADJUSTMENT OF UTILITY FACILITIES <i>At the following locations:</i> N/W/C Intr Liberty Ave. and Schenck Va S/O Pitkin Ave.; W/S Schenck Ave. N/W/C Intr Wortman Ave. and Schenck Ave. N/W/C Intr Wortman Ave. and Schenck Ave. N/S Wortman Ave.; 40' E/O Schenck Ave. AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 401 = 99	CY
CET 402.2	EXISTING OCCUPIED NON-CONCRETE ENCASED CONDUITS PLACED IN FINAL POSITION W/O CONCRETE ENCASEMENT <i>At the following locations:</i> N/W/C Intr Liberty Ave. and Schenck Va S/O Pitkin Ave.; W/S Schenck Ave. N/W/C Intr Wortman Ave. and Schenck Ave. N/W/C Intr Wortman Ave. and Schenck Ave. N/S Wortman Ave.; 40' E/O Schenck Ave. AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 402.2 = 490	LF

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CET 403	PLACING STEEL PROTECTION PLATES FOR UTILITY FACILITIES	SF
	<i>At the following locations:</i>	
	N/W/C Intr Wortman Ave. and Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 403 = 60	
CET 450.1	CONSTRUCTION FIELD SUPPORT REQUIRING AVERAGE SIZE SURVEY CREW PERFORMING TYPICAL SURVEY FUNCTIONS (TYPE .1)	CRHRS
	<i>At the following locations:</i>	
	Various	
	Total Quantity for CET 450.1 = 1	
CET 450.2	CONSTRUCTION FIELD SUPPORT REQUIRING AVERAGE SMALL SIZE CREW CAPABLE OF PERFORMING VARIOUS TASKS (TYPE .2)	CRHRS
	<i>At the following locations:</i>	
	Various	
	Total Quantity for CET 450.2 = 1	
CET 450.3	CONSTRUCTION FIELD SUPPORT REQUIRING AVERAGE MEDIUM SIZE CREW CAPABLE OF PERFORMING VARIOUS TASKS (TYPE .3)	CRHRS
	<i>At the following locations:</i>	
	Various	
	Total Quantity for CET 450.3 = 1	

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CET 500	REMOVAL OF ABANDONED UTILITY CONDUITS (NON-CONCRETE ENCASED)	LF
	<i>At the following locations:</i>	
	W/S Intr Liberty Ave. and Schenck Ave.	
	N/O Glenmore Av; W/S Schenck Av; S/O # 579	
	N/S Glenmore Av; W/O Schenck Av; F/O # 579	
	S/W Intr Schenck Ave. and Glenmore Ave.	
	S/E/C Intr Glenmore Ave. and Schenck Ave.	
	N/E/C Intr Glenmore Ave. and Schenck Ave.	
	S/S Stanley Ave; E/O Schenck Ave.	
	S/E/C Intr Stanley Ave. and Schenck Ave.	
	S/O Stanley Ave.; W/S Schenck Ave.	
	S/S Stanley Ave.; W/O Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 500 = 1,230	
CET 501	REMOVAL OF ABANDONED MASONRY FOR ELEC. AND TEL. FACILITIES	CY
	<i>At the following locations:</i>	
	N/O Glenmore Av; W/S Schenck Av; S/O # 579	
	N/S Glenmore Av; W/O Schenck Av; F/O # 579	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 501 = 4	
CET 636 ED RD	ADJUSTMENT OF UTILITY HARDWARE IN ROADWAY (30" TO UNDER 34" WIDTH)	EA
	<i>At the following locations:</i>	
	S/S Intr Liberty Ave. and Schenck Ave.	
	N/O Glenmore Av; W/S Schenck Av; S/O # 579	
	S/O Glenmore Ave.; W/S Schenck Ave.	
	S/O Glenmore Av; W/S Schenck Av; F/O # 296	
	N/O Pitkin Av; W/S Schenck Ave.; F/O # 304	
	N/O Pitkin Av; W/S Schenck Ave.; S/O # 2271	
	S/S Stanley Ave.; W/O Schenck Ave.	
	S/O Stanley Ave.; W/S Schenck Ave.; S/O # 696	
	190' S/O Stanley Ave.; W/S Schenck Ave.	
	345' S/O Stanley Ave.; W/S Schenck Ave.; F/O # 890	
	N/S Wortman Ave.; W/O Schenck Ave.	
	AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE	
	Total Quantity for CET 636 ED RD = 11	

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CET 636 ED SW ADJUSTMENT OF UTILITY HARDWARE IN SIDEWALK (30" TO UNDER 34" WIDTH) **EA**

At the following locations:

N/W/C Intr Pitkin Ave. and Schenck Ave. (Sdw)

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total Quantity for CET 636 ED SW = 1

CET 636 EH RD ADJUSTMENT OF UTILITY HARDWARE IN ROADWAY (75" TO UNDER 125" WIDTH) **EA**

At the following locations:

S/O Liberty Ave.; C/O Schenck Ave.

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total Quantity for CET 636 EH RD = 1

CET 636 MD MOD. OF WORK METHODS TO ACCOMM. UTILITY STREET HARDWARE DURING PAVE MILL. & RESURF. OPS. (30" TO UNDER 34" WIDTH) **EA**

At the following locations:

130' S/O Wortman Av; W/S Schenck Ave.; F/O # 270

260' S/O Wortman Av; W/S Schenck Ave.

100' N/O Cozine Av; W/S Schenck Ave.

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total Quantity for CET 636 MD = 3

CET 636 RM REBUILDING & MODIFICATIONS OF UTILITY STRUCTURE **CY**

At the following locations:

S/O Glenmore Av; W/S Schenck Av; F/O # 296

N/O Pitkin Av; W/S Schenck Ave.; F/O # 304

N/O Pitkin Av; W/S Schenck Ave.; S/O # 2271

N/W/C Intr Pitkin Ave. and Schenck Ave. (Sdw)

S/S Stanley Ave.; W/O Schenck Ave.

190' S/O Stanley Ave.; W/S Schenck Ave.

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total Quantity for CET 636 RM = 7

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CET 700	SPECIAL MOD. OF WORK METHODS TO ACCOMM./ PROTECT U.G. FACILITIES WITH LIMITED COVER <i>At the following locations:</i> 165' N/O Pitkin Av; X-ing Schenck Ave. N/E/C Intr Pitkin Ave. and Schenck Ave. 130' S/O Stanley Av; W/S Schenck Ave. 2700' S/O Stanley Av; X-ing Schenck Ave. S/O Stanley Ave.; W/S Schenck Ave.; F/O # 670-890 AS SHOWN ON CONTRACT DRAWINGS AND DIRECTED BY A CON EDISON REP. Total Quantity for CET 700 = 82	CY
CET 781	REMOVABLE CURB SIDEWALK PANEL FOR ACCESS TO UTILITY STRUCTURE OPENINGS <i>At the following locations:</i> N/O Pitkin Av; W/S Schenck Ave.; S/O # 2271 AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 781 = 1	EA
CET 798	MODIFICATION OF NON CONCRETE YOKE TROLLEY STRUCTURES REMOVAL WHEN CROSSING UTILITY FACILITIES <i>At the following locations:</i> N/W Intr Liberty Ave. and Schenck Ave. S/W Intr Liberty Ave. and Schenck Ave. S/E Intr Liberty Ave. and Schenck Ave. N/E Intr Liberty Ave. and Schenck Ave. S/W Intr Liberty Ave. and Schenck Ave. N/W Intr Liberty Ave. and Schenck Ave. AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE Total Quantity for CET 798 = 66	LF

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CET 802A

SPECIAL MODIFICATION OF WORK FOR INSTALLATION OF NEW SIDEWALKS

SF

At the following locations:

N/W/C Intr Liberty Ave. and Schenck Va
S/O Liberty Av; E/S Schenck Av; S/O # 560
S/O Liberty Av; E/S Schenck Av; F/O # 243
S/O Liberty Av; E/S Schenck Av; F/O # 247
N/O Glenmore Av; E/S Schenck Av; F/O # 259
N/O Glenmore Av; E/S Schenck Av; S/O # 581
S/W/C Intr Glenmore Ave. and Schenck Ave.
S/E/C Intr Glenmore Ave. and Schenck Ave.
S/O Glenmore Av; E/S Schenck Ave.
N/O Pitkin Av; E/S Schenck Ave.; F/O # 297
N/W/C Intr Pitkin Ave. and Schenck Ave. (Sdw)
200' S/O Stanley Ave.; W/S Schenck Ave. (Sdw)
N/W/C Intr Wortman Ave. and Schenck Ave.
N/E/C Intr Wortman Ave. and Schenck Ave.
N/W/C Intr Cozine Ave. and Schenck Ave.

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total Quantity for CET 802A = 619

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CET 802B**SPECIAL MODIFICATION OF WORK FOR INSTALLATION OF NEW CURES****LF**

At the following locations:

N/W/C Intr Liberty Ave. and Schenck Va
S/W/C Intr Liberty Ave. and Schenck Ave.
N/E/C Intr Liberty Ave. and Schenck Ave.
S/E/C Intr Liberty Ave. and Schenck Ave.
S/O Liberty Av; E/S Schenck Av; S/O # 560
W/S Schenck Ave. Btwn Liberty Ave. and Glenmore Ave.
S/O Liberty Av; E/S Schenck Av; F/O # 243
S/O Liberty Av; E/S Schenck Av; F/O # 247
N/O Glenmore Av; E/S Schenck Av; F/O # 259
N/O Glenmore Av; E/S Schenck Av; S/O # 581
S/W/C Intr Glenmore Ave. and Schenck Ave.
S/E/C Intr Glenmore Ave. and Schenck Ave.
S/O Glenmore Ave.; W/S Schenck Ave.
S/O Glenmore Av; E/S Schenck Ave.
N/O Pitkin Av; W/S Schenck Ave.
N/O Pitkin Av; E/S Schenck Ave.; F/O # 297
N/W/C Intr Pitkin Ave. and Schenck Ave. (Sdw)
N/E/C Intr Pitkin Ave. and Schenck Ave.
S/O Pitkin Ave.; W/S Schenck Ave.
N/W/C Intr Stanley Ave. and Schenck Ave.
S/O Stanley Ave.; W/S Schenck Ave.; S/O # 696
200' S/O Stanley Ave.; W/S Schenck Ave.; F/O # 670
270' S/O Stanley Ave.; E/S Schenck Ave.
345' S/O Stanley Ave.; W/S Schenck Ave.; F/O # 890
410' S/O Stanley Ave.; W/S Schenck Ave.; F/O # 890
N/W/C Intr Wortman Ave. and Schenck Ave.
N/E/C Intr Wortman Ave. and Schenck Ave.
N/W/C Intr Cozine Ave. and Schenck Ave.
N/S Cozine Ave.; E/O Schenck Ave.

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total Quantity for CET 802B = 1,012

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**Support & Protection
CONTRACT NO. HWK797W
Schenck Avenue Area
Borough of Brooklyn**

CET Item Number	Description	Unit	Estimated Quantity
100.3	Utilities Crossing Trench For Catch Basin Chute Connect, And/Or Test Pit (Type . 3)	Each	2
200	Extra Depth Excavation Of Catch Basin Chute Connection Pipes	LF	100
225	Installation And/Or Removal Of Catch Basins With Utility Interferences	Each	3
300	Special Care Excavation & Backfilling	CY	40
400	Test Pits For Utility Facilities	CY	10
636EA RD	Adjustment Of Utility Hardware (Under 7")	Each	2
636EB RD	Adjustment Of Utility Hardware (7" To 14")	Each	2
710.1	Removal of Abandoned Utility Steel/Cast Iron Pipes	LF	100
802A	Special Modification of Work for Installation of New Sidewalks	SF	20
802B	Special Modification of Work for Installation of New Curbs	LF	20



CET Item Number	Description
100.3	Utilities Crossing Trench For Catch Basin Chute Connect, And/Or Test Pit (Type . 3) 1 @ Schenck Ave between Pitkin Ave and Glenmore Ave 1 @ Pitkin Ave between Schenck Ave and Hendrix St
200	Extra Depth Excavation Of Catch Basin Chute Connection Pipes At the following locations: AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID Quantity – 100 LF
225	Installation And/Or Removal Of Catch Basins With Utility Interferences At the following locations: AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID Quantity – 3 EA
300	Special Care Excavation & Backfilling At the following locations: AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID Quantity – 40 CY
400	Excavation of Test Pits At the following locations: AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID Quantity – 10 CY
636EA RD	Adjustment Of Utility Hardware (under 7" width) At the following locations: AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID Quantity – 2 EA
636EB RD	Adjustment Of Utility Hardware (7" To 14") At the following locations: AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID Quantity – 2 EA



710.1 Removal of Abandoned Utility Steel/Cast Iron Pipes

At the following locations:
AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID
Quantity – 100 LF

802A Special Modification of Work for Installation of New Sidewalks

At the following locations:
AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID
Quantity – 20 SF

802B Special Modification of Work for Installation of New Curbs

At the following locations:
AS ENCOUNTERED AND REQUIRED BY NATIONAL GRID
Quantity – 20 LF

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HWK797W
RECONSTRUCTION OF SCHENCK AVENUE
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CET ITEM	DESCRIPTION	UNITS	ESTIMATED QUANTITY
CET 100.1	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECTION AND/OR TEST PIT (TYPE .1)	EA	10
CET 100.2	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECTION AND/OR TEST PIT (TYPE .2)	EA	3
CET 100.3	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECTION AND/OR TEST PIT (TYPE .3)	EA	1
CET 101.1	UTILITIES CROSSING TRENCH FOR SEWERS OVER 12" TO 24" DIAMETER (TYPE .1)	EA	2
CET 101.2	UTILITIES CROSSING TRENCH FOR FOR SEWERS OVER 12" TO 24" DIAMETER (TYPE .2)	EA	1
CET 225.1A	INSTALLATION AND REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES	EA	3
CET 225.1B	INSTALLATION OF CATCH BASINS WITH UTILITY INTERFERENCES	EA	2
CET 225.1C	REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES	EA	1
CET 330T	SUPPORT AND PROTECTION OF COMMUNICATION UTILITY FACILITIES DURING EXCAVATION OF CITY TRENCH WHEN FACILITIES LIE IN OR IN CLOSE PROXIMITY TO TRENCH LIMITS	LF	110
CET 350	OVERHEAD ACCOMMODATION PROTECTION OF OVERHEAD FACILITIES, POLES, AND APPURTENANCES	LS	1
CET 351T	UTILITY POLE SUPPORTS	EA	2
CET 400	TEST PITS FOR UTILITY FACILITIES	CY	20
CET 401	TRENCH EXCAVATION FOR ADJUSTMENT OF UTILITY FACILITIES	CY	24
CET 402T.2A	EXISTING OCCUPIED NON-CONCRETE ENCASED CONDUITS PLACED IN FINAL POSITION WITH CONCRETE ENCASEMENT	LF	200
CET 402T.V2A	EXISTING VACANT NON-CONCRETE ENCASED CONDUITS PLACED IN FINAL POSITION WITH CONCRETE ENCASEMENT	LF	100
CET 403	PLACING STEEL PROTECTION PLATES FOR UTILITY FACILITIES	SF	40
CET 636 EE RD	ADJUSTMENT OF UTILITY HARDWARE (34" TO UNDER 41" WIDTH) IN ROADWAY	EA	4

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CET 635 EE SW	ADJUSTMENT OF UTILITY HARDWARE (34" TO UNDER 41" WIDTH) IN SIDEWALK	EA	2
CET 700	SPECIAL MODIFICATION OF WORK METHODS TO ACCOMMODATE/PROTECT UNDERGROUND FACILITIES WITH LIMITED COVER	CY	66
CET 761	REMOVEABLE SIDEWALK CURB PANEL FOR ACCESS TO UTILITY STRUCTURE OPENINGS	EA	1
CET 798	MODIFICATION OF NON CONCRETE YOKE TROLLEY STRUCTURE REMOVAL WHEN CROSSING UTILITY FACILITIES	LF	32
CET 799	MODIFICATION OF NON CONCRETE YOKE TROLLEY STRUCTURE REMOVAL PARALLEL TO UTILITY FACILITIES	LF	63
CET 802A	SPECIAL CARE EXCAVATION AND RESTORATION FOR SIDEWALK WORK	SF	256
CET 802B	SPECIAL CARE EXCAVATION AND RESTORATION FOR CURB WORK	LF	86
CET 803.2	LINE CUT BY PNEUMATIC TOOLS IN LIEU OF SAW CUT ASSOCIATED WITH ROADWAY REMOVAL OPERATIONS	LF	50

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CET 100.1**UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECTION AND/OR TEST PIT (TYPE 1)****@ THE FOLLOWING LOCATIONS**

	QTY(EA)
NEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE	2
NWC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE	2
SEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE	2
SEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	2
NWC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	1
SEC OF INTERSECTION OF SCHENCK AVENUE AND COZINE AVENUE	1

CET 100.1	TOTAL	10
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CET 100.2**UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECTION AND/OR TEST PIT (TYPE 2)****@ THE FOLLOWING LOCATIONS**

	QTY(EA)
SEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	1
NWC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	1
SEC OF INTERSECTION OF SCHENCK AVENUE AND COZINE AVENUE	1

CET 100.2	TOTAL	3
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CET 100.3**UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECTION AND/OR TEST PIT (TYPE 3)****@ THE FOLLOWING LOCATIONS**

	QTY(EA)
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	1

CET 100.3	TOTAL	1
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CET 101.1**UTILITIES CROSSING TRENCH FOR SEWERS OVER 12" TO 24" DIAMETER (TYPE 1)****@ THE FOLLOWING LOCATIONS**

	QTY(EA)
W SIDE OF SCHENCK AVENUE BTWN LINDEN BOULEVARD & STANLEY AVENUE	1
S SIDE OF INTERSECTION OF SCHENCK AVENUE AND COZINE AVENUE	1

CET 101.1	TOTAL	2
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CET 101.2**UTILITIES CROSSING TRENCH FOR SEWERS OVER 12" TO 24" DIAMETER (TYPE 2)****@ THE FOLLOWING LOCATIONS**

	QTY(EA)
S SIDE OF INTERSECTION OF SCHENCK AVENUE AND COZINE AVENUE	1

CET 101.2	TOTAL	1
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RECONSTRUCTION OF SCHENCK AVENUE
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CET 225.1A		
INSTALLATION AND REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES		
	QTY(EA)	
NWC OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE, ON SCHENCK	1	
NWC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE, ON PITKIN	1	
NEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE, ON STANLEY	1	
CET 225.1A	TOTAL	3
CET 225.1B		
INSTALLATION OF CATCH BASINS WITH UTILITY INTERFERENCES		
	QTY(EA)	
NEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE, ON SCHENCK	1	
SEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE, ON SCHENCK	1	
CET 225.1B	TOTAL	2
CET 225.1C		
REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES		
	QTY(EA)	
NEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE, ON SCHENCK	1	
CET 225.1C	TOTAL	1
CET 330T		
SUPPORT AND PROTECTION OF COMMUNICATION UTILITY FACILITIES DURING EXCAVATION OF CITY TRENCH WHEN FACILITIES LIE IN OR IN CLOSE PROXIMITY TO TRENCH LIMITS		
	QTY(LF)	
W SIDE OF SCHENCK AVENUE BTWN MEGEMAN AVENUE & LINDEN BOULEVARD	30	
W SIDE OF SCHENCK AVENUE BTWN LINDEN BOULEVARD & STANLEY AVENUE	50	
N SIDE INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	30	
CET 330T	TOTAL	110
CET 350		
OVERHEAD ACCOMMODATION PROTECTION OF OVERHEAD FACILITIES, POLES, AND APPURTENANCES		
	QTY(LS)	
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	1	
CET 350	TOTAL	1
CET 351T		
UTILITY POLE SUPPORTS		
	QTY(EA)	
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	2	
CET 351T	TOTAL	2

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CET 400		
TEST PITS FOR UTILITY FACILITIES		
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	QTY(CY)	20
CET 500	TOTAL	20
CET 401		
TRENCH EXCAVATION FOR ADJUSTMENT OF UTILITY FACILITIES		
@ THE FOLLOWING LOCATIONS		
SEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	QTY(CY)	24
CET 401	TOTAL	24
CET 402T.2A		
EXISTING OCCUPIED NON-CONCRETE ENCASED CONDUITS PLACED IN FINAL POSITION WITH CONCRETE ENCASEMENT		
@ THE FOLLOWING LOCATIONS		
SEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	QTY(LF)	200
CET 402T.2A	TOTAL	200
CET 402T.V2A		
EXISTING VACANT NON-CONCRETE ENCASED CONDUITS PLACED IN FINAL POSITION WITH CONCRETE ENCASEMENT		
@ THE FOLLOWING LOCATIONS		
SEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	QTY(LF)	100
CET 402T.V2A	TOTAL	100
CET 403		
PLACING STEEL PROTECTION PLATES FOR UTILITY FACILITIES		
@ THE FOLLOWING LOCATIONS		
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	QTY(SF)	40
CET 403	TOTAL	40
CET 636 EE RD		
ADJUSTMENT OF UTILITY HARDWARE (34" TO UNDER 41" WIDTH) IN ROADWAY		
@ THE FOLLOWING LOCATIONS		
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	QTY(EA)	4
CET 636 EE RD	TOTAL	4

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CET 636 EE SW		
ADJUSTMENT OF UTILITY HARDWARE (34" TO UNDER 41" WIDTH) IN SIDEWALK		
@ THE FOLLOWING LOCATIONS		
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	QTY(EA)	2
CET 636 EE SW	TOTAL	2
CET 700		
SPECIAL MODIFICATION OF WORK METHODS TO ACCOMMODATE/PROTECT UNDERGROUND FACILITIES WITH LIMITED COVER		
@ THE FOLLOWING LOCATIONS		
INTERSECTION OF SCHENCK AVENUE & STANLEY AVENUE	QTY(CY)	66
CET 700	TOTAL	66
CET 781		
REMOVEABLE SIDEWALK CURB PANEL FOR ACCESS TO UTILITY STRUCTURE OPENINGS		
@ THE FOLLOWING LOCATIONS		
SEC OF INTERSECTION OF SCHENCK AVENUE AND STANLEY AVENUE	QTY(EA)	1
CET 781	TOTAL	1
CET 798		
MODIFICATION OF NON CONCRETE YOKE TROLLEY STRUCTURE REMOVAL WHEN CROSSING UTILITY FACILITIES		
@ THE FOLLOWING LOCATIONS		
NEC OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE	QTY(LF)	15
INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE		17
CET 798	TOTAL	32
CET 799		
MODIFICATION OF NON CONCRETE YOKE TROLLEY STRUCTURE REMOVAL PARALLEL TO UTILITY FACILITIES		
@ THE FOLLOWING LOCATIONS		
EAST SIDE OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE	QTY(LF)	10
NEC OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE		13
NORTH SIDE OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE		40
CET 799	TOTAL	63

Verizon

JANUARY 2020

HWK797W
RECONSTRUCTION OF SCHENCK AVENUE
Borough of Brooklyn
Schedule UI: Scope of Work for CET Items

CET 802A**SPECIAL CARE EXCAVATION AND RESTORATION FOR SIDEWALK WORK****@ THE FOLLOWING LOCATIONS**

	QTY(SF)
NWC OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE	59
EAST SIDE OF SCHENCK AVENUE BTWN GLENMORE AVENUE & PITKIN AVENUE	90
NEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE	30
SEC OF INTERSECTION OF SCHENCK AVENUE & STANLEY AVENUE	77

CET 802A	TOTAL	256
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CET 802B**SPECIAL CARE EXCAVATION AND RESTORATION FOR CURB WORK****@ THE FOLLOWING LOCATIONS**

	QTY(LF)
NWC OF INTERSECTION OF SCHENCK AVENUE & LIBERTY AVENUE	18
EAST SIDE OF SCHENCK AVENUE BTWN GLENMORE AVENUE & PITKIN AVENUE	6
NEC OF INTERSECTION OF SCHENCK AVENUE & PITKIN AVENUE	6
SEC OF INTERSECTION OF SCHENCK AVENUE & STANLEY AVENUE	56

CET 802B	TOTAL	86
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CET 803.2**LINE CUT BY PNEUMATIC TOOLS IN LIEU OF SAW CUT ASSOCIATED WITH ROADWAY REMOVAL OPERATIONS****@ THE FOLLOWING LOCATIONS**

	QTY(LF)
AS ENCOUNTERED & DIRECTED BY THE VERIZON FIELD REPRESENTATIVE	50

CET 803.2	TOTAL	50
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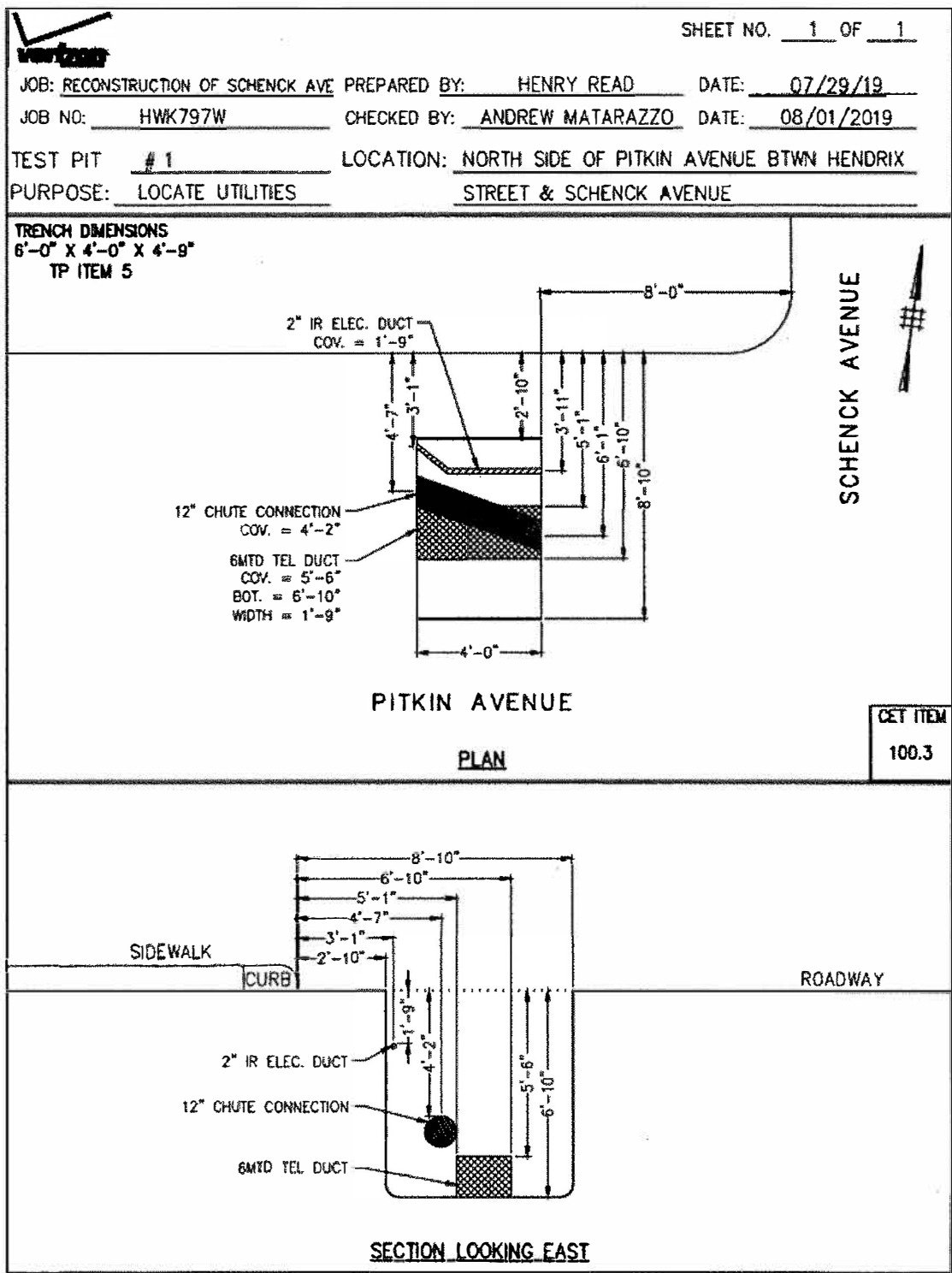
SCHEDULE U-3

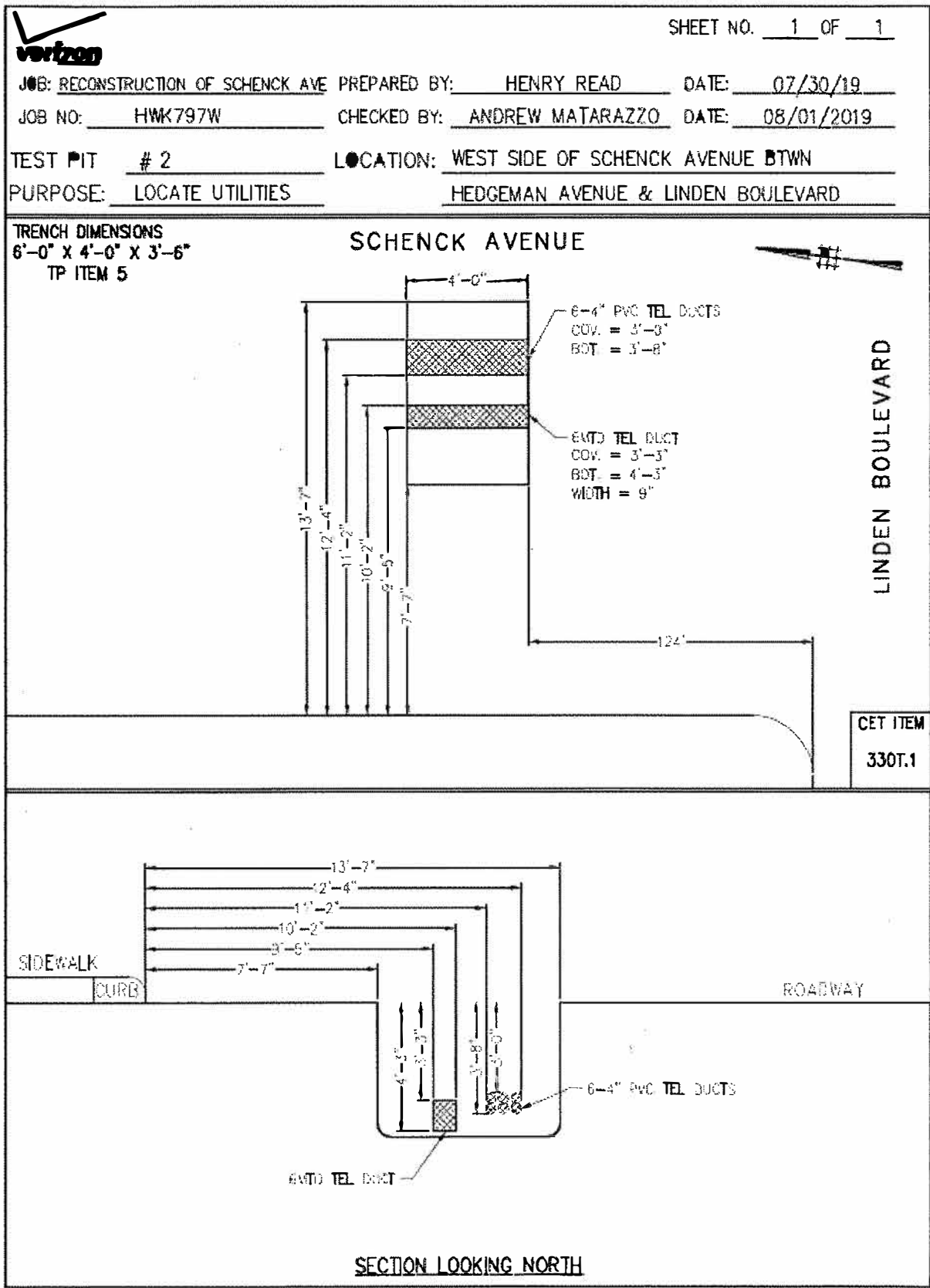
(NO TEXT IN THIS SECTION)

TEST PITS

- (1) THESE TEST PITS DETAIL EXISTING CONDITIONS (AS OF BID DATE) OF UTILITIES AND OTHER SUBSURFACE FACILITIES AT LOCATIONS AS SHOWN ON THE TEST PIT LOCATIONS PLAN OF THE CONTRACT DRAWINGS.**
- (2) DEPTHS OF FACILITIES ARE FROM EXISTING ROADWAY AND SIDEWALK ELEVATIONS AS SHOWN, OFFSETS ARE FROM EXISTING CURB, PROPERTY AND BUILDING LINES, AS SHOWN.**
- (3) RELEVANT ITEMS ARE NOTED ON EACH TEST PIT DIAGRAM.**

(NO TEXT IN THIS SECTION)





SHEET NO. 1 OF 1JOB: RECONSTRUCTION OF SCHENCK AVE PREPARED BY: HENRY READ DATE: 07/30/19JOB NO: HWK797W CHECKED BY: ANDREW MATARAZZO DATE: 08/01/2019TEST PIT # 3 LOCATION: WEST SIDE OF SCHENCK AVENUE BTWN LINDENPURPOSE: LOCATE UTILITIES BOULEVARD & STANLEY AVENUE

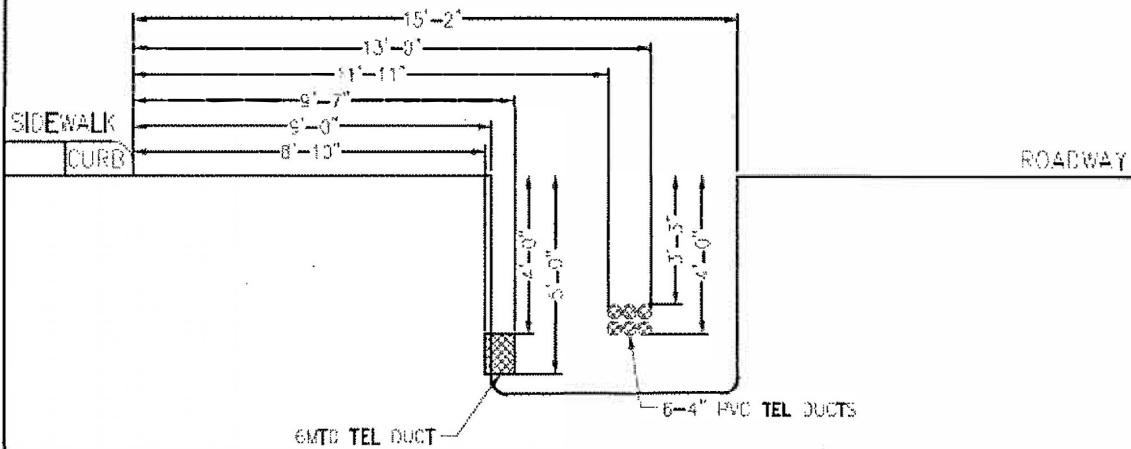
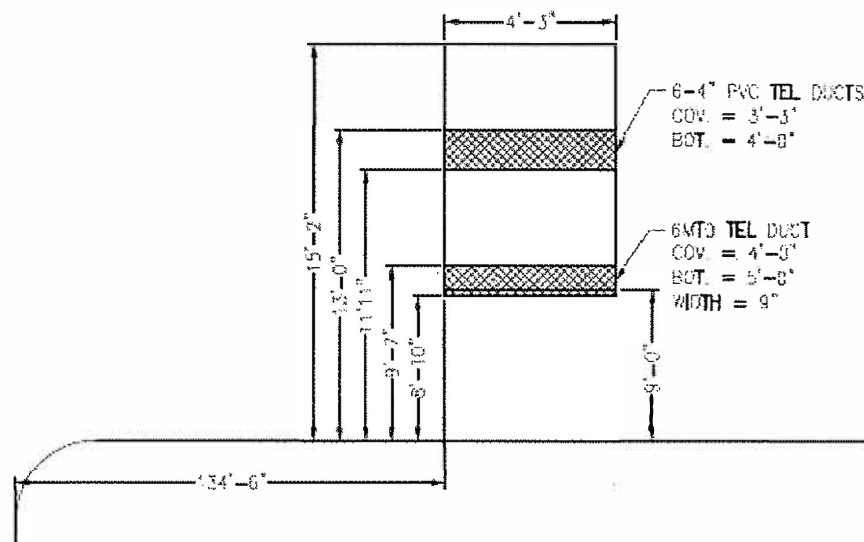
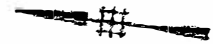
TRINCH DIMENSIONS
 6'-2" X 4'-3" X 4'-6"
 TP ITEM 5

SCHENCK AVENUE

AutoCAD SHX Text

SCHENCK AVENUE

LINDEN BOULEVARD



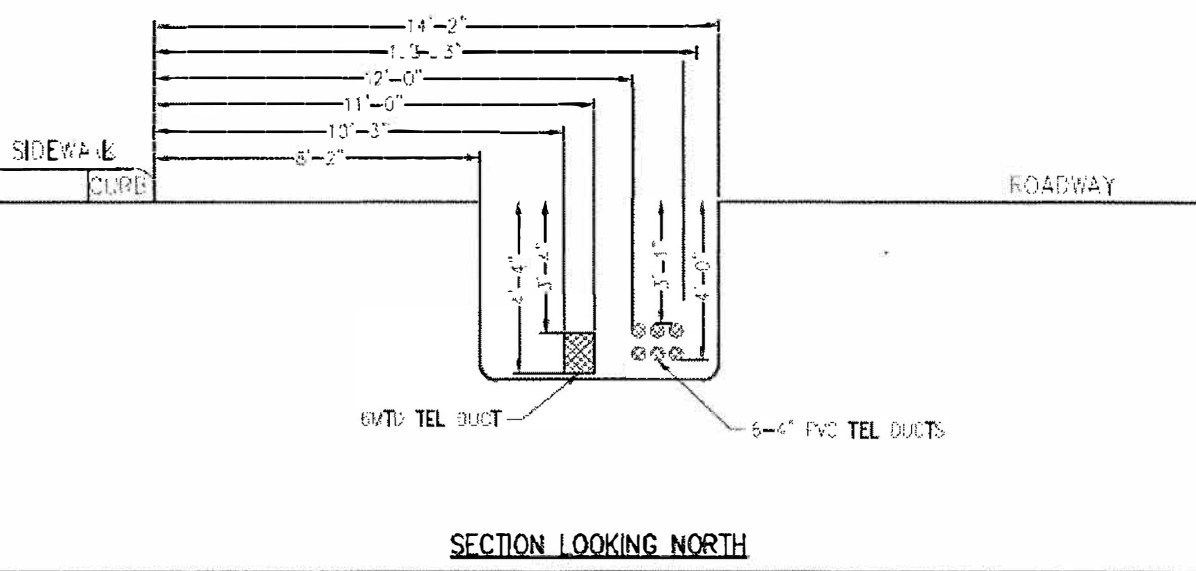
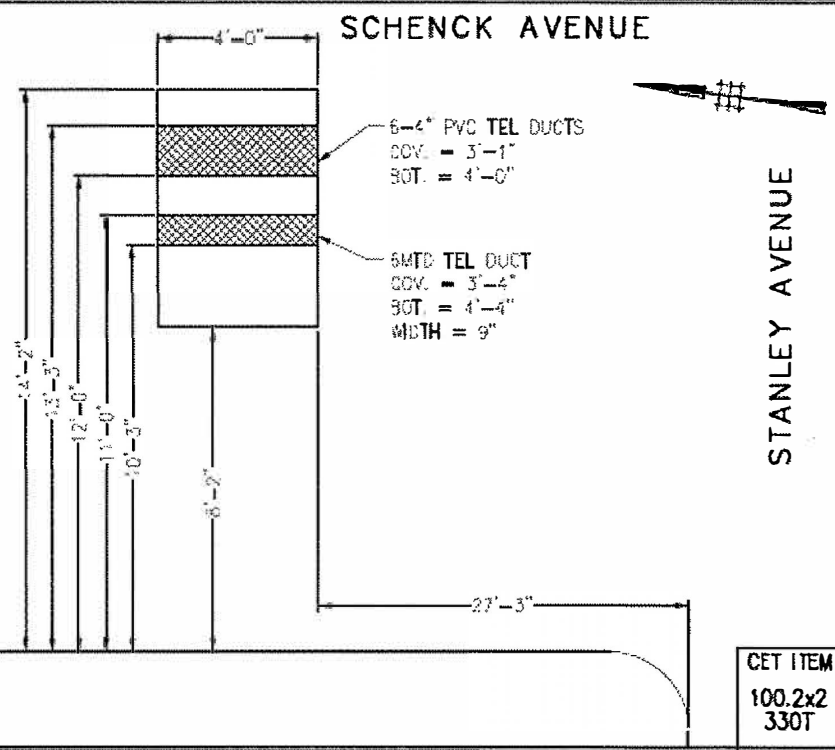
SECTION LOOKING NORTH



SHEET NO. 1 OF 1

JOB: RECONSTRUCTION OF SCHENCK AVE PREPARED BY: HENRY READ DATE: 07/30/19
JOB NO: HWK797W CHECKED BY: ANDREW MATARAZZO DATE: 08/01/2019
TEST PIT # 4 LOCATION: WEST SIDE OF SCHENCK AVENUE BTWN LINDEN
PURPOSE: LOCATE UTILITIES BOULEVARD & STANLEY AVENUE

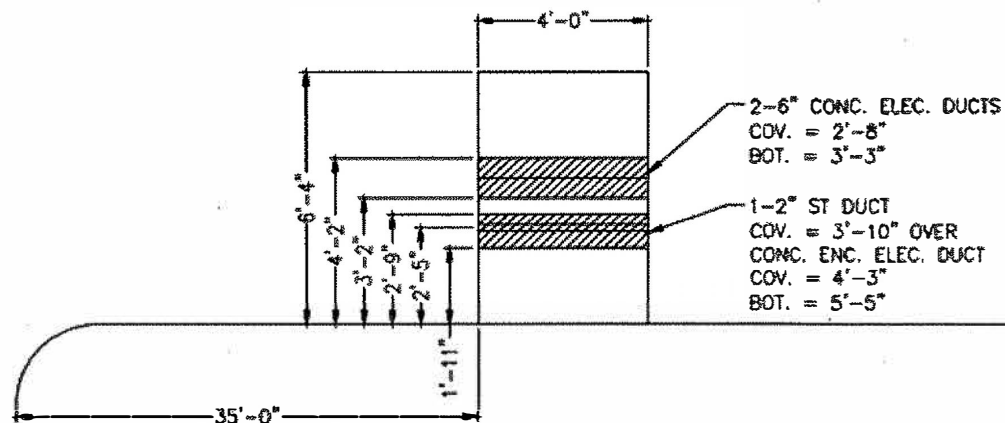
TRENCH DIMENSIONS
6'-0" X 4'-0" X 4'-4"
TP ITEM 5



SHEET NO. 1 OF 1JOB: RECONSTRUCTION OF SCHENCK AVE PREPARED BY: HENRY READ DATE: 07/31/19JOB NO: HWK797W CHECKED BY: ANDREW MATARAZZO DATE: 08/01/2019TEST PIT # 5A LOCATION: WEST SIDE OF SCHENCK AVENUE BTWN LINDENPURPOSE: LOCATE UTILITIES BOULEVARD & STANLEY AVENUETRENCH DIMENSIONS
6'-4" X 4'-0" X 4'-4"
TP ITEM 5

SCHENCK AVE

STANLEY AVENUE

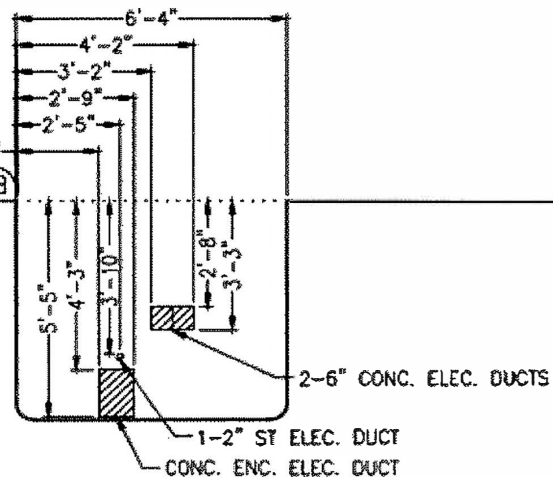


CET ITEM

SIDEWALK

CURB

ROADWAY

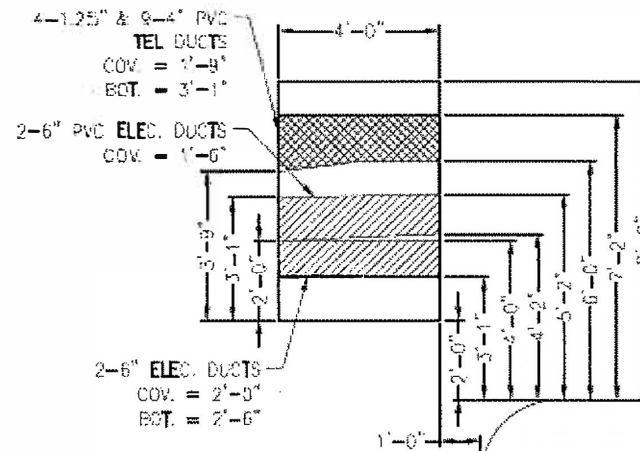


SECTION LOOKING WEST

SHEET NO. 1 OF 1JOB: RECONSTRUCTION OF SCHENCK AVE PREPARED BY: HENRY READ DATE: 07/31/19JOB NO: HWK797W CHECKED BY: ANDREW MATARAZZO DATE: 08/01/2019TEST PIT # 58 LOCATION: SEC INT OF STANLEY AVENUE & SCHENCKPURPOSE: LOCATE UTILITIES AVENUETRENCH DIMENSIONS
6'-0" X 4'-0" X 2'-3"
TP ITEM 5

STANLEY AVENUE

SCHENCK AVE

CET ITEM
100.1
100.2

SIDEWALK

CURB

ROADWAY

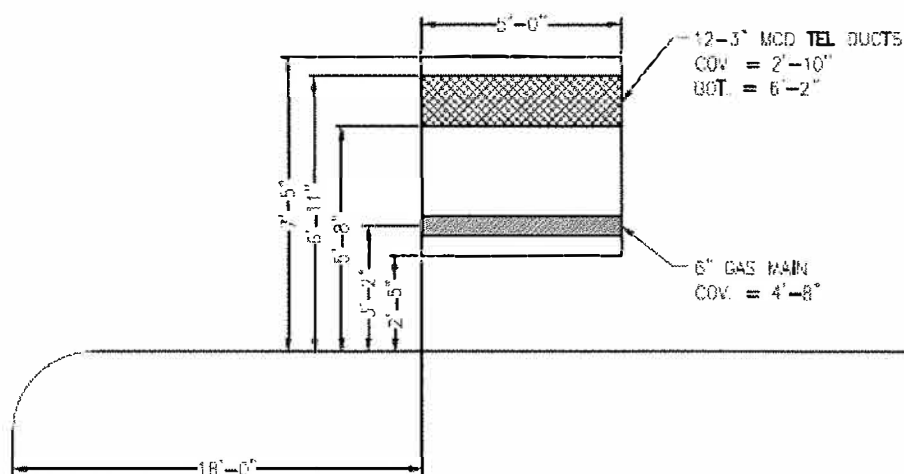
2-6" ELEC. DUCTS
2-6" PVC ELEC. DUCTS
4-1.25" & 9-4" PVC
TEL DUCTS

SECTION LOOKING WEST

SHEET NO. 1 OF 1JOB: RECONSTRUCTION OF SCHENCK AVE PREPARED BY: HENRY READ DATE: 07/31/19JOB NO: HWK797W CHECKED BY: ANDREW MATARAZZO DATE: 08/01/2019TEST PIT # 6 LOCATION: SOUTH SIDE COZINE AVENUE BTWN SCHENCKPURPOSE: LOCATE UTILITIES AVENUE & BARBEY STREETTRENCH DIMENSIONS
5'-0" X 5'-0" X 4'-6"
TP ITEM 5

COZINE AVENUE

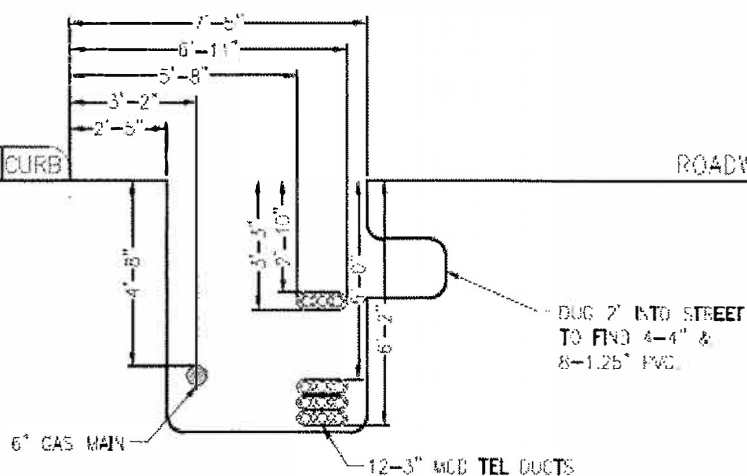
SCHENCK AVE

CET ITEM
100.1
100.2

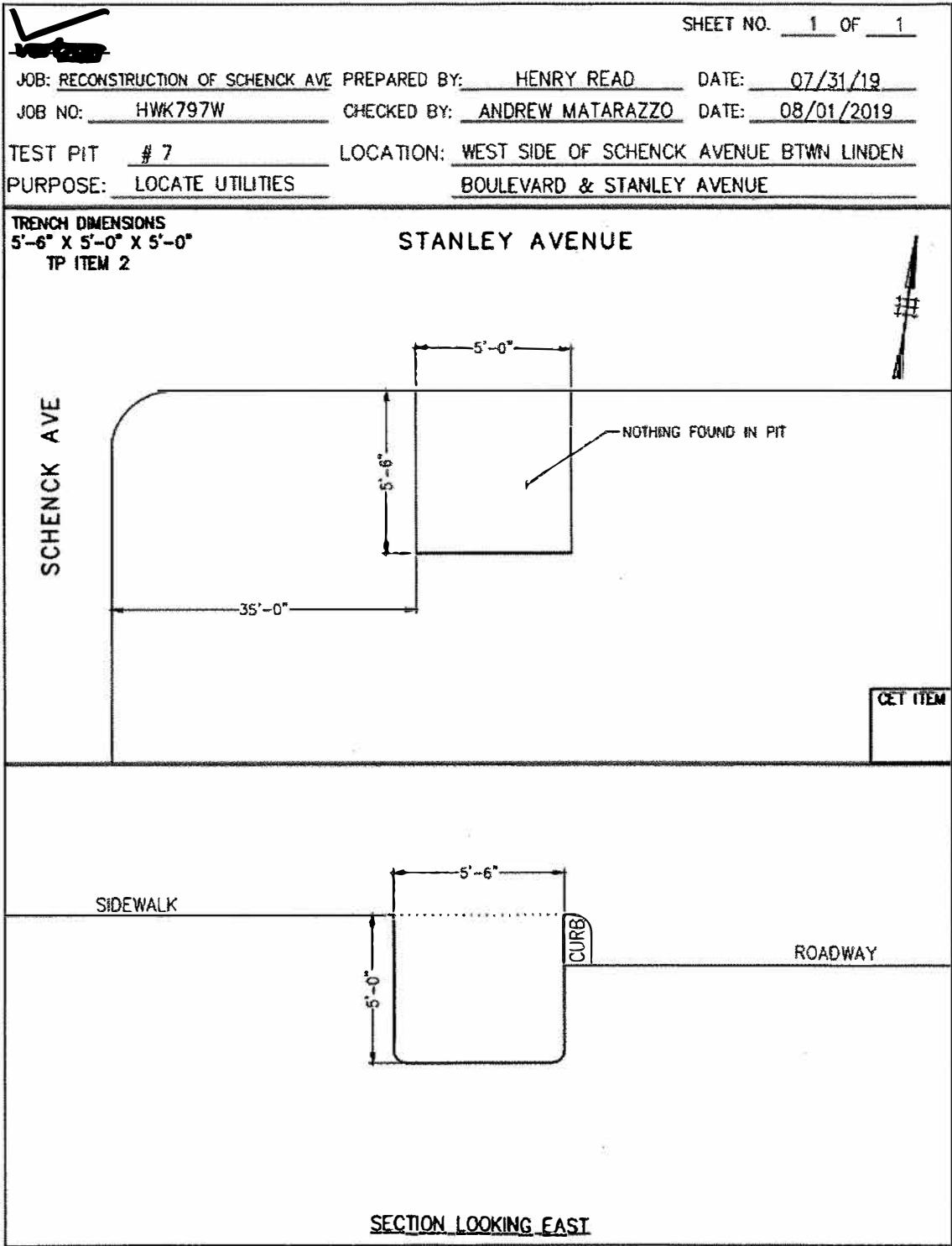
SIDEWALK

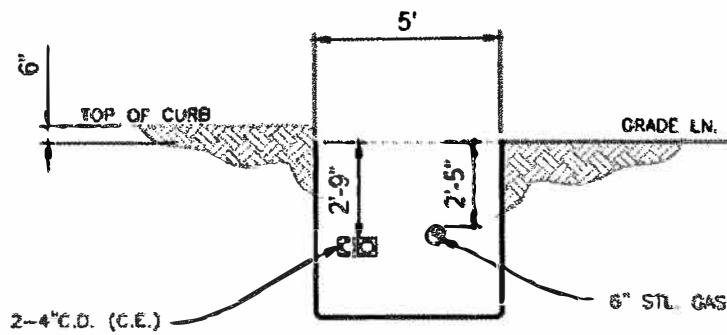
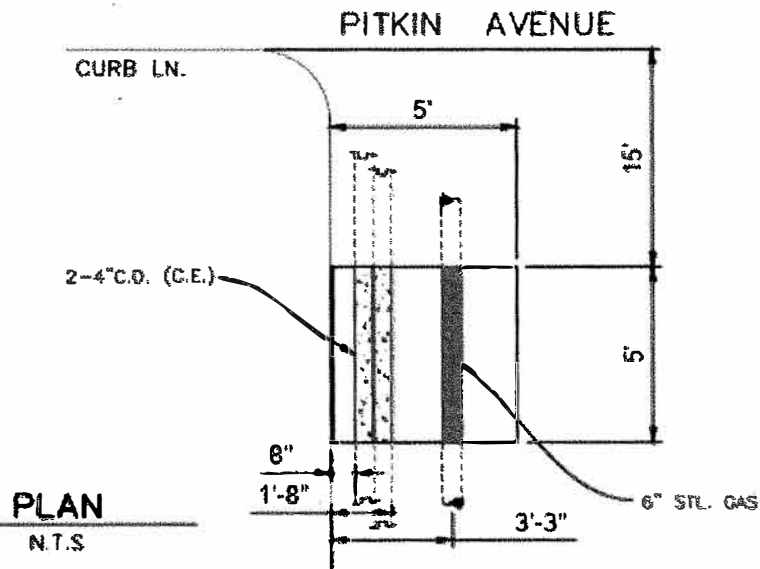
CURB

ROADWAY

NOTE: DUG 2' INTO STREET TO
LOCATE 4-4" & 8-1.25" PVC.
PVC WAS LOCATED IN MANHOLE
274 10.5' OFF SOUTH CURB

SECTION LOOKING WEST

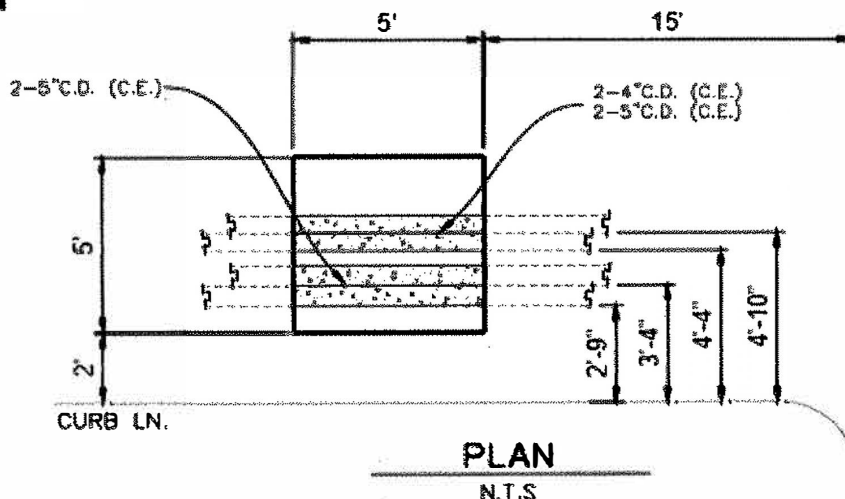


JOB NO: HWK797WTEST PIT # 4PREPARED BY: I. EydelmanDATE: 8.29.19CHECKED BY: A. OwensDATE: 8.30.19JOB NAME: RECONSTRUCTION OF SCHENCK AVENUELOCATION: 15-20' S/S/C PITKIN AVENUEPURPOSE: LOCATE UNDERGROUND FACILITIES0-5' E/W/C SCHENCK AVENUEDATE OF EXCAVATION: 8.5.2019CONTRACT SHEET NO: 2 OF 7

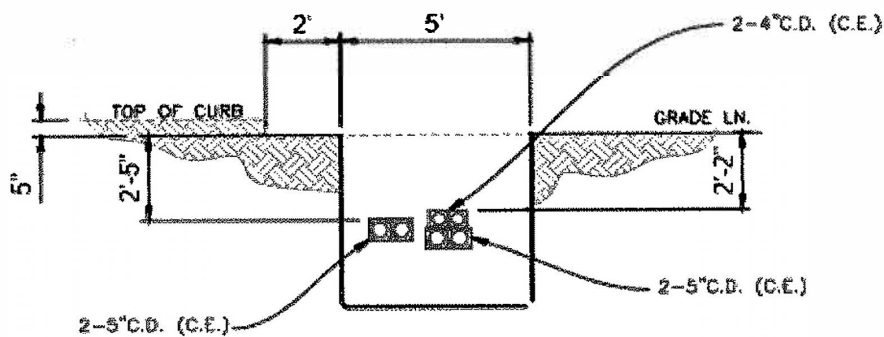
PROFILE - LOOKING NORTH
N.T.S.

JOB NO: HWK797WTEST PIT # 8PREPARED BY: I. EydelmanDATE: 8.29.19CHECKED BY: A. OwensDATE: 8.30.19JOB NAME: RECONSTRUCTION OF SCHENCK AVENUELOCATION: 15-20' N/W/C STANLEY AVENUEPURPOSE: LOCATE UNDERGROUND FACILITIES2-7' E/W/C SCHENCK AVENUEDATE OF EXCAVATION: 8.8.2019CONTRACT SHEET NO: 4 OF 7

SCHENCK AVENUE



STANLEY AVENUE

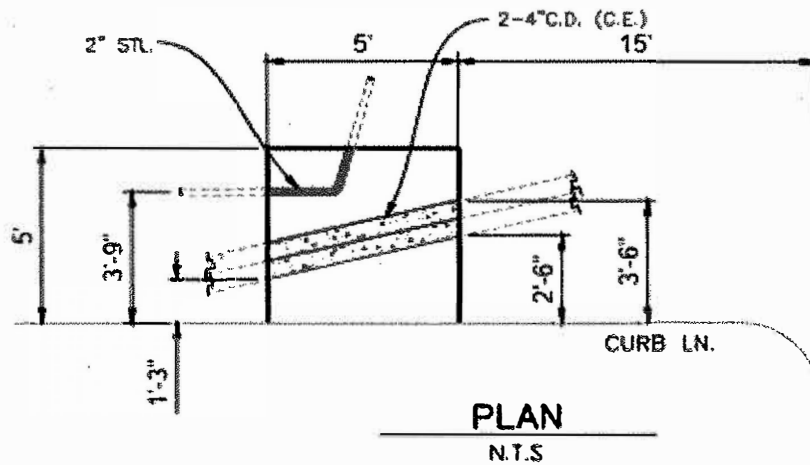


PROFILE - LOOKING NORTH

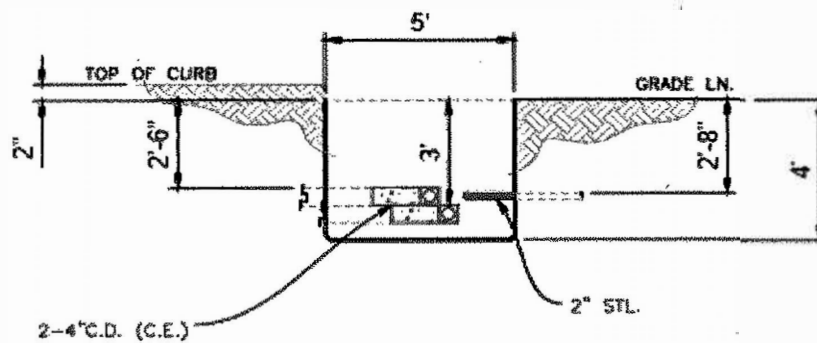
N.T.S.

JOB NO: HWK797WTEST PIT # 6APREPARED BY: I. EydelmanDATE: 8.29.19CHECKED BY: A. OwensDATE: 8.30.19JOB NAME: RECONSTRUCTION OF SCHENCK AVENUELOCATION: 0-5' N/S/C STANLEY AVENUEPURPOSE: LOCATE UNDERGROUND FACILITIES15-20' W/W/C SCHENCK AVENUEDATE OF EXCAVATION: 8.8.2019CONTRACT SHEET NO: 4 OF 7

STANLEY AVENUE

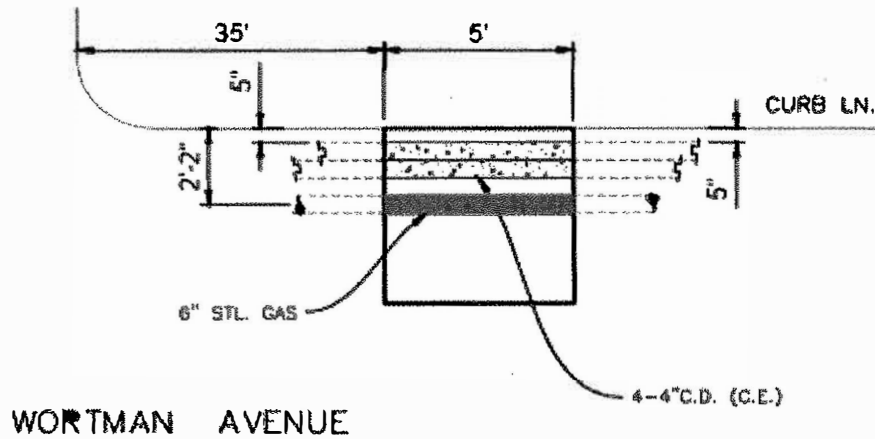


SCHENCK AVENUE

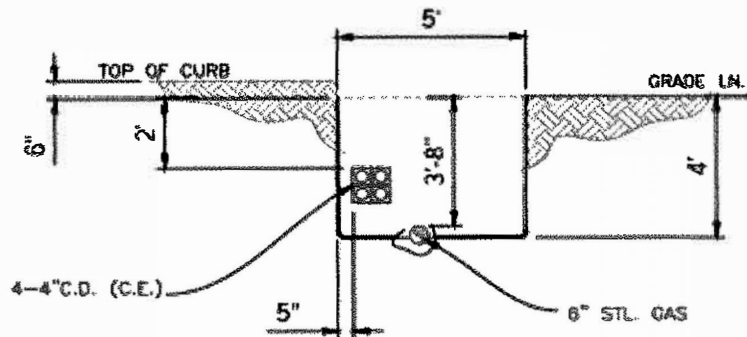


JOB NO: HWK797WTEST PIT # 12PREPARED BY: I. EydelmanDATE: 8.29.19CHECKED BY: A. OwensDATE: 8.30.19JOB NAME: RECONSTRUCTION OF SCHENCK AVENUELOCATION: 0-5' S/N/C WORTMAN AVENUEPURPOSE: LOCATE UNDERGROUND FACILITIES35-40' E/E/C SCHENCK AVENUEDATE OF EXCAVATION: 8.7.2019CONTRACT SHEET NO: 5 OF 7

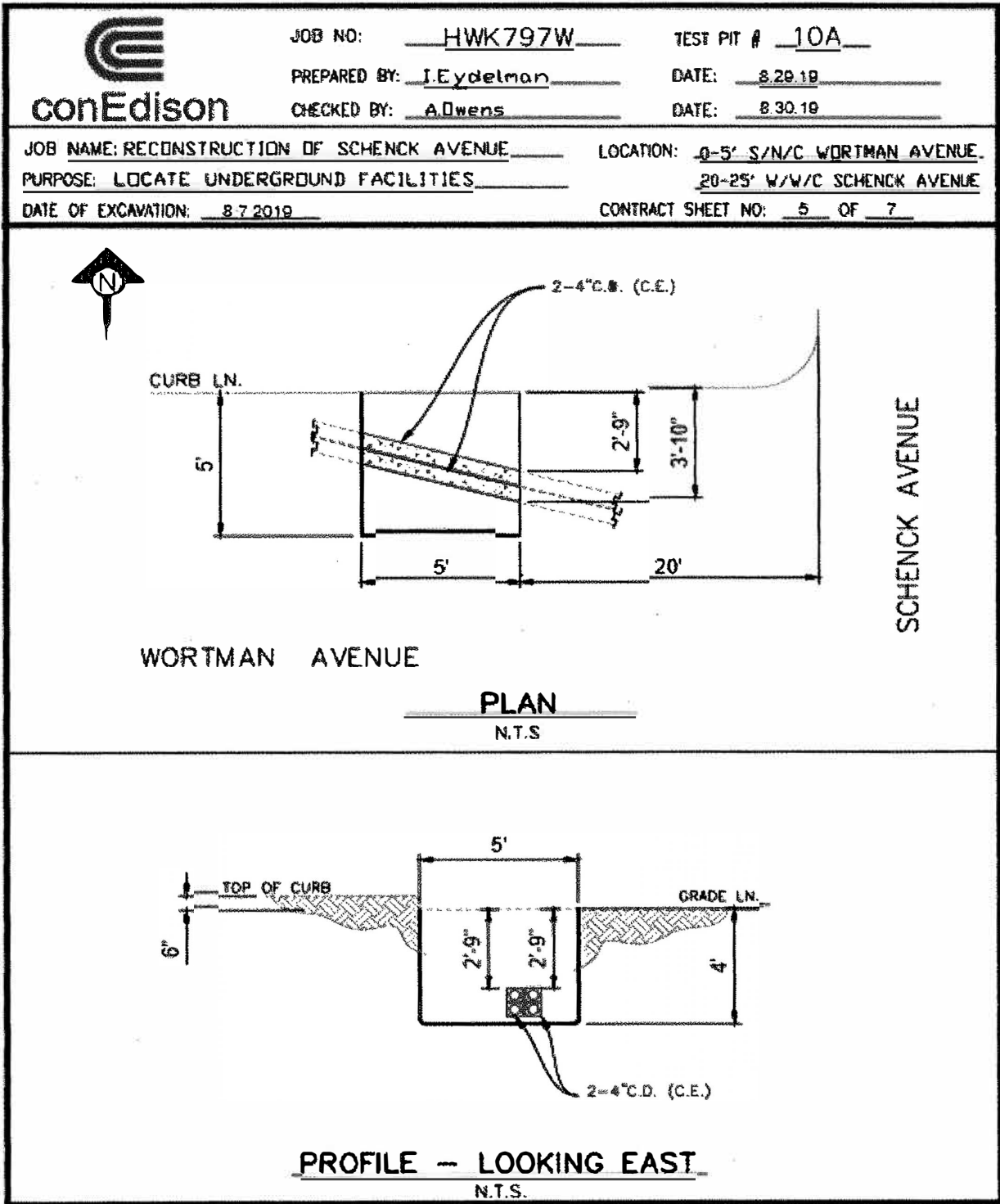
SCHENCK AVENUE

**PLAN**

N.T.S.

**PROFILE — LOOKING EAST**

N.T.S.



END OF UI-PAGES

THE UI-PAGES CONSIST OF SIXTY-NINE (69) PAGES AND
THIRTY-TWO (32) SHEETS OF PRIVATE UTILITY DRAWINGS ARE
ATTACHED TO THE CONTRACT PLANS



**Department of
Design and
Construction**

**DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN**

VOLUME 3 OF 3

PROJECT ID: HWK797W

**RECONSTRUCTION OF SCHENCK AVENUE
SCHENCK AVENUE FROM LIBERTY AVENUE TO PITKIN AVENUE
SCHENCK FROM HEGEMAN AVENUE TO COZINE AVENUE
BELMONT AVENUE FROM SCHENCK AVENUE TO BARBEY STREET**

INCLUDING SEWER, WATER MAIN, STREET LIGHTING, AND TRAFFIC SIGNAL WORK

**Together With All Work Incidental Thereto
BOROUGH OF BROOKLYN
CITY OF NEW YORK**

Contractor

Dated _____, 20____
