

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

3J-30 THOMSON AVENUE LONG ISLAND CITY, NEW YORK 11101-3045 TELEPHONE (718) 391-1000 WEBSITE www.nyc.gov/buildnyc

LAW

## VOLUME 1 OF 3 BID BOOKLET

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto
BOROUGH OF QUEENS
CITY OF NEW YORK



FOR THE DEPARTMENT OF TRANSPORTATION PREPARED BY HAZEN AND SAWYER

**APRIL 11, 2014** 

#### **Bid Tab**

Descri	ption		OVEMENTS IN SHO WEST DRIVE - BO	
Bid Da	ite	7/16/2014	FMS ID	HWQ985
Estima	ted Cost	\$7,787,837.20	Client Agency	DOT
Bid Se	curity	Not less than 2% of Total Bid Price	PLA	No
Time A	Allowed	455 CCD	Contract Manager	Victoria Ayo- Vaughan
Adden	dum	8	Project Manager	Choudhury, A.H.M.
PIN		8502013HW0061C	E-PIN	85014B0067
Selecti	ve Bidding	□Yes ⊠No	Consultant	Hazen and Sawyer
Bid Rank		Vendor	Bid Amount	Security Type
1	C.A.C. IND	USTRIES, INC.	\$7,471,069	38 Bond
2	TULLY CONSTRUCTION CO. INC.		INC. \$8,355,280.	.68 Bond
3	NY ASPHA	LT INC	\$8,565,060	.00 Bond
4	BOVE IND	USTRIES, INC.	\$9,563,250	.00 Bond
5	RESTANI (	CONSTRUCTION CO	ORP. \$10,277,646.	.60 Bond
6	P & T II CC	ONTRACTING CORE	P. \$10,829,117.	.88 Bond
7	PRIMER C	ONSTRUCTION CO	RP \$11,898,080.	10 Bond
8	JR CRUZ C	CORP.	\$12,292,292.	29 Bond

Recorder: Melanie Sanchez ext. 3430

Approver: Solaine Hel

Bid Tab

Pin: 8502013HW0061C

Page 1 of 1



DR. FENIOSKY A. PEÑA-MORA Commissioner

JOHN GODDARD Agency Chief Contracting Officer

November 19, 2014

**CERTIFIED MAIL - RETURN RECEIPT REQUEST** 

C.A.C. INDUSTRIES, INC. 54-08 Vernon Boulevard Long Island City, NY 11101

RE: FMS ID: HWQ985

E-PIN: 85014B0067001

DDC PIN: 8502013HW0061C

ROADWAY IMPROVEMENTS IN SHORE ROAD FROM 36TH AVENUE TO WEST

DRIVE - BOROUGH OF QUEENS

NOTICE OF AWARD

#### Dear Contractor:

You are hereby awarded the above referenced contract based upon your bid in the amount of \$7,471,069.38 submitted at the bid opening on July 16, 2014. Within ten (10) days of your receipt of this notice of award, you are required to take the actions set forth in Paragraphs (1) through (3) below. For your convenience, attached please find a copy of Schedule A of the General Conditions to the Contract, which sets forth the types and amounts of insurance coverage required for this contract.

- (1) Execute four copies of the Agreement in the Contracts Unit, 30-30 Thomson Avenue, 1<sup>st</sup> Floor, Long Island City, New York (IDCNY Building). A Commissioner of Deeds will be available to witness and notarize your signature. The Agreement must be signed by an officer of the corporation or a partner of the firm.
- (2) Submit to the Contracts Unit four properly executed performance and payment bonds. If required for this contract, copies of performance and payment bonds are attached.
- (3) Submit to the Contracts Unit the following insurance documentation: (a) original certificate of insurance for general liability in the amount required by Schedule A, and (b) original certificates of insurance or other proof of coverage for workers' compensation and disability benefits, as required by New York State Law. The insurance documentation specified in this paragraph is required for registration of the contract with the Comptroller's Office.

30 - 30 Thomson Ave L.I.C., NY 11101 Telephone: (718) 391-2838 Facsimile: (718) 391-1885 www.nyc.gov/buildnyc



On or before the contract commencement date, you are required to submit all other certificates of insurance and/or policies in the types and amounts required by Schedule A. Such certificates of Insurance and/or policies must be submitted to the Agency Chief Contracting Office, Attention: Risk Manager, Fourth Floor at the above indicated department address.

Your attention is directed to the section of the Information for Bidders entitled "Failure to Execute Contract". As indicated in this section, in the event you fail to execute the contract and furnish the required bonds within the (10) days of your receipt of this notice of award, your bid security will be retained by the City and you will be liable for the difference between your bid price and the price for which the contract is subsequently awarded, less the amount of the bid security retained.

Sincerely,

Jornaine Holly 101 John Goddard

## GET UPFRONT CAPITAL

TO COMPETE ON CITY CONTRACTS



# Contract Financing for NYC Small Businesses

NYC Business Solutions helps small businesses, including Minority or Women-owned Business Enterprises (M/WBEs), across all industries secure low-rate loans to compete on City contracts.

Whether your firm has been selected to perform a construction project, provide professional services, or supply the City with goods, businesses across all industries can access up to \$150,000 in capital to cover contract-related labor and equipment costs.

#### The ideal business should:

- Currently be in operation
- · Have plans to bid on a City contract
- Need early-stage resources (e.g. working capital, inventory, or equipment)

Call 311 and ask for "contract financing" or visit www.nyc.gov/contractfinancing for more information





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### **CITY OF NEW YORK**

## DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE

### **BID BOOKLET**

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

**PROJECT ID: HWQ985** 

**ROADWAY IMPROVEMENTS IN** 

**SHORE ROAD** 

FROM 36TH AVENUE TO WEST DRIVE

**INCLUDING SEWER AND WATER MAIN WORK** 

Together With All Work Incidental Thereto
BOROUGH OF QUEENS
CITY OF NEW YORK

(NO TEXT ON THIS PAGE)

#### PROJECT ID: HWQ985

## CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE

#### **BID BOOKLET**

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## CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE

#### SPECIAL NOTICE TO BIDDERS

#### **BID SUBMISSION REQUIREMENTS**

#### THE FOLLOWING DOCUMENTS ARE TO BE COMPLETED AND SUBMITTED WITH THE BID:

- 1. Bid Schedule and Bid Form, including Affirmation
- 2. Bid Security (if required, see Attachment 1 on Page A-1)
- 3. Schedule B: M/WBE Utilization Plan (if participation goals have been established)

## FAILURE TO SUBMIT ITEMS (1), (2) AND (3) WILL RESULT IN THE DISQUALIFICATION OF THE BID.

- 4. Safety Questionnaire
- 5. Construction Employment Report (if bid is \$1,000,000 or more)
- 6. Contract Certificate (if bid is less than \$1,000,000)
- 7. Confirmation of Vendex Compliance
- 8. Bidder's Certification of Compliance with Iran Divestment Act
- 9. Special Experience Requirements (if applicable)
- 10. Apprenticeship Program Questionnaire (if applicable)
- 11. Any addenda issued prior to the receipt of bids

## FAILURE TO SUBMIT ITEMS (4) THROUGH (11) MAY RESULT IN THE DISOUALIFICATION OF THE BID.

#### NOTES:

- (1) All of the above referred to blank forms to be completed and submitted with the bid are included in the BID BOOKLET.
- (2) If the bidder has any questions or requires additional information, please contact the Department of Design and Construction by phone (718-391- 2601) or by fax (718-391- 2615).
- (3) <u>VENDEX QUESTIONNAIRES</u>: The Bidder is advised that Vendex Questionnaires and procedures have been changed. Vendex Questionnaires, as well as detailed instructions, may be obtained at <u>www.nyc.gov/vendex</u>. The bidder may also obtain Vendex forms and instructions by contacting the Agency Chief Contracting Officer or the contact person for this contract.
- (4) <u>SPECIAL EXPERIENCE REQUIREMENTS</u>: The Bidder is advised that Special Experience Requirements may apply to this contract. Such requirements are set forth on pages 3, 3a, 3b, and 4 of this Bid Booklet.

#### SPECIAL NOTICE TO BIDDERS

#### SPECIAL EXPERIENCE REQUIREMENTS (Revised 03/2014)

(A) SPECIAL EXPERIENCE REQUIREMENTS FOR THE BIDDER: The Special Experience Requirements set forth below apply to the bidder. Compliance with such Special Experience Requirements will be determined solely by the City prior to an award of contract. Failure to comply with the Special Experience Requirements will result in rejection of the bid as non-responsive.

The requirements in this Section (A) apply to this contract where indicated by a blackened box (11).

The bidder must, within the last seven (7) consecutive years prior to the bid opening, have successfully completed in a timely fashion at least one (1) project similar in scope and type to the required work. Such prior project may have been performed as a prime contractor, subcontractor or sub-subcontractor.

The Special Experience Requirements next to the blackened box below apply to the bidder. If the bidder intends to perform such work itself, it must demonstrate compliance with the Special Experience Requirements. If the bidder intends to subcontract this work, the proposed subcontractor or subsubcontractor must demonstrate compliance with the Special Experience Requirements. The contractor, subcontractor or sub-subcontractor (hereinafter referred to as the "entity") that will perform any specific area of work indicated by the blackened box below, may have performed the required prior project(s) as a prime contractor, subcontractor or sub-subcontractor. Once approved, no substitution will be permitted, unless the qualifications of the proposed replacement have been approved in writing in advance by the City.

- Trunk Water Main Work: The entity that will perform the trunk water main work must, within the last seven (7) consecutive years prior to the bid opening, have successfully completed in a timely fashion at least one (1) project similar in scope and type to the required work.
- Best Management Practice Work: Best Management Practice ("BMP") Work is any item of work in the Bid Schedule that begins with the prefix "BMP". The entity that will perform any BMP Work must, within the last five (5) consecutive years prior to the bid opening, have successfully completed in a timely fashion at least three (3) projects similar in scope and type to the required work.

For professional services in connection with BMP Work, (i.e., monitoring and reporting services), the individual who will perform the required services must, within the last five (5) consecutive years prior to the bid opening, have successfully completed in a timely fashion at least three (3) projects similar in scope and type to the required work. Additional requirements are set forth below.

- The individual serving as the Restoration Specialist (Construction Monitor) must be a Registered Landscape Architect licensed by the state of New York, or must have equivalent professional experience.
- The individual serving as the Erosion and Sediment Control Licensed/Certified Professional must be a Certified Professional in Erosion and Sediment Control (CPESC), certified by CPESC, Inc.

_	
	completed in a timely fashion at least two (2) projects similar in scope and type to the required work.
	work must, within the last five (5) consecutive years prior to the bid opening, have successfully
	<b>Micro-Tunneling/Pipe Jacking Work:</b> The entity that will perform the micro-tunneling/pipe jacking

3

## (B) <u>SPECIAL EXPERIENCE REQUIREMENTS FOR SPECIFIC AREAS OF WORK (to be provided after an award of contract):</u>

The requirements in this Section (B) apply to this contract where indicated by a blackened box (m).

The Special Experience Requirements set forth below apply to the contractor, subcontractor or subsubcontractor that will perform the specific area of work. Compliance with such Special Experience Requirements will be determined solely by the City after an award of contract. After an award of contract, when requested by the City, the contractor will be required to submit the qualifications of the contractor, subcontractor or sub-subcontractor that will perform the specific area of work. If the bidder intends to perform such work itself, it must demonstrate compliance with the Special Experience Requirements. If the bidder intends to subcontract this work, the proposed subcontractor or subsubcontractor must demonstrate compliance with the Special Experience Requirements. Once approved, no substitution will be permitted, unless the qualifications of the proposed replacement have been approved in writing in advance by the City.

Special Experience Requirements apply to the contractor, subcontractor or sub-subcontractor (hereinafter referred to as the "entity") that will perform any specific area of work indicated by a blackened box. The entity may have performed the required prior project(s) as a prime contractor, subcontractor or subsubcontractor.

Hazmat Work: Hazmat Work is any item of work in the Bid Schedule that begins with the prefix 8.01. The entity that will perform any Hazmat Work must, within the last three (3) consecutive years prior to the bid opening, have successfully completed in a timely fashion at least five (5) projects similar in scope and type to the required work.
Pile, CFA Pile, and/or Mini-Pile Work: The entity that will perform the Pile, CFA Pile and/or Mini-Pile Work must, within the last three (3) consecutive years prior to the bid opening, have successfully completed in a timely fashion at least two (2) projects similar in scope and type to the required work.
For professional services in connection with Pile Work, (i.e., engineering and inspection services), the individual who will perform the required services must be a Professional Engineer licensed by the state of New York. Such individual must also comply with the above requirements for prior projects.
Construction Report, Monitoring And Post-Construction Report, and Continuous Real-Time Monitoring For Vibrations And Movements And Post-Construction Report Work: The entity that will perform the Construction Report, Monitoring For Vibrations And Movements, and Post-Construction Report Work must, within the last three (3) consecutive years prior to the bid opening have successfully completed in a timely fashion at least two (2) projects similar in scope and type to the required work.
For professional services in connection with Reporting and Monitoring Work, (i.e., engineering and inspection services), the individual who will perform the required services must be a Professional Engineer licensed by the state of New York. Such individual must also comply with the above requirements for prior projects.
OTHER:

- (C) <u>SPECIFICATIONS</u>: In the event of any conflict, omission or inconsistency between (1) the Specifications and/or Contract Drawings, and (2) the Special Experience Requirements in Section (B) of the Special Notice To Bidders, the special experience listed in the Specifications and/or Contract Drawings shall be controlling. The Special Experience Requirements in Section (B) of this Special Notice To Bidders are only for the convenience of the bidders.
- (D) <u>SUBMISSION REQUIREMENTS</u>: For each project submitted to demonstrate compliance with the Special Experience Requirements, the bidder must complete and submit the Qualification Form included in the Bid Booklet. The City will only evaluate a project if the following criteria are met: (1) the project is described on the Qualification Form, and (2) all information on the Qualification Form is provided. The City will not evaluate any project which does not comply with the criteria set forth herein, including any project which is referred to only on the resume of an individual.

If Special Experience Requirements are indicated for any specific area of work, the submission requirement set forth above shall apply to the entity that will perform the specific area of work.

- (E) <u>CONDITIONS</u>: In determining compliance with the Special Experience Requirements for the bidder set forth above, the City may consider prior projects completed by principal(s) or other employees of the bidder while affiliated with another entity, subject to the conditions set forth below.
  - Any principal or other employee on whose prior experience the bidder is relying to demonstrate compliance with this special experience requirement must have held the following: (a) a significant management role in the prior entity with which he/she was affiliated, and (b) a significant management role in the entity submitting the bid for a period of six (6) months or more from the inception of the bidding entity.
  - The bidder may not rely on the experience of its principals or other employees to demonstrate compliance with any other requirements, including without limitation, financial requirements or requirements for a specified minimum amount of annual gross revenues.
- (F) <u>JOINT VENTURES</u>: In the event the bidder is a joint venture, at least one firm in the joint venture must meet the above described experience requirements.

Name of Contractor:
Name of Project:
Location of Project:
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name:
Name:Phone Number:
Brief description of the Project completed or the Project in progress:
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date:
*****************
Name of Contractor:
Name of Project:
Location of Project:
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name:
Title: Phone Number:
Brief description of the Project completed or the Project in progress:
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date:

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#### BID SCHEDULE

#### NOTICE TO BIDDERS

Items listed in this Bid Schedule which have three (3) digits followed by a decimal (e.g. 207.21, 552.11, 624.0401, etc.), shall comply with the requirements of the corresponding numerical Sections of the New York State Department of Transportation (NYSDOT) Standard Highway Specifications of May 1, 2008, as currently amended.

However all, references therein to the "Department", "Materials Bureau", "Regional Engineer", etc., shall be deemed to mean the "Engineer". Where any reference is made on the plans or specifications to the "State" or any of its officials, the Contractor shall substitute the City of New York, Department of Design and Construction, or any of its appropriate officials. The NYSDOT Specifications described above neither imply the State's involvement in any testing and approval of materials, nor in the supervision of construction.

Items listed in this Bid Schedule which have one (1) digit followed by a decimal (e.g. 4.02 AF-R), except for items beginning with the number "8.01", shall comply with the requirements of the corresponding numerical Sections of the NYCDOT Standard Highway Specifications, dated November 1, 2010, as amended by Addendum No. 1, herein Volume 3 of 3.

Items listed in this Bid Schedule beginning with the number "8.01" followed by a letter (e.g. 8.01 C2) shall comply with the requirements of the corresponding numerical Sections of the DDC Specifications for Handling, Transportation and Disposal of Nonhazardous and Potentially Hazardous Contaminated Materials contained in Addendum No. 5, herein Volume 3 of 3.

Items listed in this Bid Schedule which have two (2) digits beginning with the number "5" followed by a decimal (e.g. 50.21M3C024D), except for items number "51.61F001, 51.61F002, 51.61F003, 51.61F004, and 51.61F005, shall comply with the requirements of the New York City Department of Environmental Protection (NYCDEP) Standard Sewer Specifications dated August 1, 2009, as amended by Addendum No. 2, herein Volume 3 of 3.

Item Nos. 51.61F001, 51.61F002, 51.61F003, 51.61F004, and 51.61F005, shall comply with the requirements of Section No. 51.61 F in Addendum No. 4, herein Volume 3 of 3.

Items listed in this Bid Schedule which have two (2) digits beginning with the number "6" followed by a decimal (e.g. 60.11R606) shall comply with the requirements of the New York City Department of Environmental Protection (NYCDEP) Standard Water Main Specifications dated August 1, 2009, as amended by Addendum No. 2, herein Volume 3 of 3.

Items listed in this Bid Schedule which have two (2) digits beginning with the number "7" followed by a decimal (e.g. 70.31FN), shall comply with the requirements of the New York City Department of Environmental Protection (NYCDEP) Standard Sewer Specifications, dated August 1, 2009, or the NYCDEP Standard Water Main Specifications, dated August 1, 2009, as applicable, as amended by Addendum No. 2, herein Volume 3 of 3.

Items listed in this Bid Schedule beginning with the prefix "BMP" (e.g. BMP-7.09, BMP-7.103, etc.) shall comply with the requirements of the corresponding Section Nos. incorporated in Addendum No. 4, herein Volume 3 of 3.

Items listed in this Bid Schedule beginning with the prefix "HW-" (e.g. HW-900H, etc.) shall comply with the requirements of the corresponding alphanumeric Section incorporated in Addendum No. 1, herein Volume 3 of 3.

Items listed in this Bid Schedule beginning with the prefix "UTL-" (e.g. UTL-6.07) are for Gas Cost Sharing (EP-7) work and shall comply with the requirements of Addendum No. 3, herein Volume 3 of 3.

## BID FORM THE CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE

BID FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

PROJECT ID: HWQ985

#### ROADWAY IMPROVEMENTS IN

SHORE ROAD

## FROM 36TH AVENUE TO WEST DRIVE INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto BOROUGH OF QUEENS CITY OF NEW YORK

Name of Bidder: CAR TOUSUSTAIRS TUC
Date of Bid Opening:
Bidder is: (Check one, whichever applies) Individual ( ) Partnership ( ) Corporation
Place of Business of Bidder: 408 VENNON BID LTCNY 1/10/
Bidder's Telephone Number: 7/8 39/- 2260 Fax Number:
Bidder's E-Mail Address: TLABOZZK AT CHOZUDDUC. CUM
Residence of Bidder (If Individual):
If Bidder is a Partnership, fill in the following blanks:  Names of Partners  Residence of Partners
If Bidder is a Corporation, fill in the following blanks: Organized under the laws of the State of
Name and Home Address of President: MICHAEL A CAPASIO
Name and Home Address of Secretary: SAME
Name and Home Address of Treasurer:

The above-named 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 set forth on the Affirmation included as page C-6 of this Bid Booklet.

The bidder hereby affirms that it has paid all applicable City income, excise and other taxes for all years it has conducted business activities in New York City.

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 herein shall mean the individual bidder, firm, partnership or corporation executing this bid).

#### **AFFIRMATION**

(If none, th	e bidder shall insert the word "None" in the space	
	shall more the word word in the space	provided above.)
Full Name Address:	of Bidder: An Ty Sustaines	DUC
City	StateState	Zip Code
CHECK O	NE BOX AND INCLUDE APPROPRIATE NUMI	BER:
<u>/</u> _/ A-	Individual or Sole Proprietorship* SOCIAL SECURITY NUMBER	
<b>B</b>	Partnership, Joint Venture or other unincorpor EMPLOYER IDENTIFICATION NUMBER	rated organization
••	·	
c-	Corporation EMPLOYER IDENTIFICATION NUMBER	
	11-3082726	
y:	mel	
	ignature	

This affirmation must be signed by an officer or duly authorized representative.

\*Under the Federal Privacy Act the furnishing of Social Security Numbers by bidders on City contracts is voluntary. Failure to provide a Social Security Number will not result in a bidder's disqualification. Social Security Numbers will be used to identify bidders, proposers or vendors to ensure their compliance with laws, to assist the City in enforcement of laws, as well as to provide the City a means of identifying of businesses which seek City contracts.

#### 6. 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.

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.

- 7. 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.
- 8. 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.
- 9. 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:
- 10. M/WBE UTILIZATION PLAN: By signing its bid, the bidder agrees to the Vendor Certification and Required Affirmations set forth below, unless a full waiver of the Participation Goals is granted. The Vendor Certification and Required Affirmations will be deemed to satisfy the requirement to complete Section V of Part II of Schedule B: M/WBE Utilization Plan.

#### Section V: Vendor Certification and Required Affirmations:

#### I hereby:

- 1) acknowledge my understanding of the M/WBE participation requirements as set forth in this Contract and the pertinent provisions of Section 6-129 of the Administrative Code of the City of New York and the rules promulgated thereunder;
- 2) affirm that the information supplied in support of the M/WBE Utilization Plan is true and correct:
- 3) agree, if awarded this Contract, to comply with the M/WBE participation requirements of this Contract, the pertinent provisions of Section 6-129, and the rules promulgated thereunder, all of which shall be deemed to be material terms of this Contract;
- 4) agree and affirm that it is a material term of this Contract that the Vendor will award the total dollar value of the M/WBE Participation Goals to certified MBEs and/or WBEs, unless a full waiver is obtained or such goals are modified by the Agency; and
- 5) agree and affirm, if awarded this Contract, to make all reasonable, good faith efforts to meet the M/WBE Participation Goals, 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.

Name of Contractor: CAC TWOUST RIPS TWO
Name of Project: 180 NS7 OF5 BS LESHUNES
Location of Project: NGSTRIAND AVC & RUGERS AVE-BIC
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: JA TIN UPROITING Title: Phone Number: 718 391-2282
Brief description of the Project completed or the Project in progress: Leans T Sylet BCS 5m including which man Dumma GREN INFUNSTMETURE WOLL NEW BUS OVER A
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 14, 945, 698-58
Start Date and Completion Date: 1/3/13 - 6/24/14
********
Name of Contractor: CACINDUSTRIES TUC
Name of Project: Althm skur
Location of Project: BOW OF THE BRUNK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: WALIS A BUJ MIAN 917642-7731 Title: Phone Number: 7/8 391-
Brief description of the Project completed or the Project in progress: No AD WAY
Was the Project months and
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 36 165 168.80
Start Date and Completion Date: 8/16/10 - 10/22/13

Name of Contractor: CAC DUDUSTRICE DUC
Name of Project: CO/189 & POINT BIND
Location of Project: BORO OF QUEENS
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: Joth PAVLIK, NYOUSC Title: EZC Phone Number: 7/8 391-1036
Brief description of the Project completed or the Project in progress:
- MAN RESTURATION COTTES EST
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: \$ 12 M/llox
Start Date and Completion Date: 9/10 - ON SON
**********
Name of Contractor: CAC TOUDUSTRIES DUC
Name of Project: Hy (H LING
Location of Project: Bone OF MAN HATTAN
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: LEN GRECCO
Title: V P. CAP PROVISM Phone Number: 212 - 312 - 3743
Brief description of the Project completed or the Project in progress:
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: #36million
Start Date and Completion Date: 6/9 70 4/11

Name of Contractor: (PACTW) WHI AT TIC
Name of Project: Hittline
Location of Project: BOND of MANHAM
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: Ch Gueco
Phone Number: 212-312-3718
Brief description of the Project completed or the Project in progress:   WSTAILAHON
111
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 36 million
Start Date and Completion Date: 69 10 41
**********
Name of Contractor: Off The Dustife The
Name of Project: E AST FOUNTSM (
Location of Project: BOKE OF THE BUINK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name:
Title: Phone Number: 7/8 39/-1036
Brief description of the Project completed or the Project in progress: TASTALLATION
MediAN/JIANTERS MALLS
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 3 // M//Lon
Start Date and Completion Date: 2/11 - ON COINS

ASPEN LANDSCAPING BMP

#### Qualification Form

Name of Contractor: Northeast Remsco
Name of Project: West Brook Rd Bridge over Wanaque Resensir
Location of Project: Passaic, NJ
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: Conty of Rassaic  Title: Proceeding Phone Number: 173 365 5624
Brief description of the Project completed or the Project in progress: Planted tres,  topsoil, first reced, and applied ensure control metting
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Start Date and Completion Date: April 2014 - compt
********
Name of Contractor: George Horms Construction
Name of Project: NTTX - 6SP Shoulder restoration 1200.199
Location of Project: Ocean County, NJ
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: NJTA - 688  Title: Poput Info Phone Number: 732 441 4500
Title: Phone Number: 12 11 4368
Brief description of the Project completed or the Project in progress:
Seeding, plating, within, maning, Soil Stabilization mathing
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Shorten
Amount of Contract, Subcontract or Sub-subcontract: \$577352.27
Start Date and Completion Date: Oct 2012 - ament

Project ID: 1

	r submission of all required projects.
Name of Contractor:	APS contracting
Name of Project:	West District Police Station
Location of Project:	Jersey City, NJ
Owner or Owner's repre	esentative (Architect or Engineer) who is familiar with the work performed:
Name: EVa	
Title: Ery	Phone Number: 173 754 1780
Brief description of wo	rk completed: Planted free, shorbs, strongle 8011.
Was the work performe	d as a prime or a subcontractor:
Amount of Contract:	\$51,794
Date of Completion:	Fall 2012
****	***************
Name of Contractor:	English Paving
Name of Project:	Riverdave Improvements
Location of Project:	Confield, NJ
Owner or Owner's repre	sentative (Architect or Engineer) who is familiar with the work performed:
Name:	Edward Follon
Title: En	Phone Number: (773) 928 2500
Brief description of wor	k completed: Planty, studing oil plannent
Was the work performed	d as a prime or a subcontractor:
Amount of Contract:	205,383
Date of Completion:	Current APS- complete spring 2014
CITY OF NEW YORK	BID BOOKLET December 2013

# SITEWONICS LANDSCAPE ARCH

#### **Qualification Form**

Name of Contractor: DITE WORKS LANDSCAPE ARCHITECTURE
Name of Project: Springfield GARDENS
Location of Project: QUEENS NEW YORK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: NUCEDC - JAWAD ASSAF Title: VICE PRESIDENT Phone Number: (2/2) 3/2.3/15
Title: Vice President Phone Number: (2/2) 3/2.37/5
Brief description of the Project completed or the Project in progress: NFRASPUTIVE PROJECT WI WELLHUD RESTORATION AND CREATION. STEWNERS IS THE PEOPLEATION SPECIALST.
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: SOBCONTRACTOR
Amount of Contract, Subcontract or Sub-subcontract: 4492,284
Start Date and Completion Date: HARCH 2013 - Spein 2015
************
Name of Contractor: SHEWORKS LANDSCAPE DRUMPEGOVER
Name of Project: QUEENS PLASAPEDESTEIAN & BICYCLE   MPROVEMENTS
Location of Project: QUEENS NEW YORK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: NUCEOC JAWAD ASSAF Title: VILLE POPOLITENT Phone Number: (212) 312.37/5
Brief description of the Project completed or the Project in progress: FOAN PENIGHHENT, BLUCKE PATH & PEDESTRIAN PATH WETLAND CECKTON,
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: SUBCONTRACTOR
Amount of Contract, Subcontract or Sub-subcontract: \$\frac{210,000}{210,000}
Start Date and Completion Date: 5PRING 2010 - FAU 2012

Name of Contractor: SITEWORKS LANDSCAPE ARCHITECTURE
Name of Project: GREENPOINT TRANSMITTER PARK
Location of Project: BROOKLYN NEW YORK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: VEN GREW Title: VICE PRESIDENT Phone Number: (212) 312.3743
Brief description of the Project completed or the Project in progress: NEW WATER FRONT PARK WITH WATERS FORE PLANTING FLAMEQUIPMENT USWAS & PANTINGS
Was the Project performed as a prime, a subcontractor or a sub-subcontractor. SUBCONTRACTOR
Amount of Contract, Subcontract or Sub-subcontract: \$86,400
Start Date and Completion Date: JUNE 2010 - Spence 2013
*********
Name of Contractor:
Name of Project:
Location of Project:
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name:
Title:Phone Number:
Brief description of the Project completed or the Project in progress:
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date:

APPLEMON ASSOCIATES
MONITORING

#### **Qualification Form**

Name of Contractor: Difazio Industries	
Name of Project: Construction of Storm Sewers and Sanitary Sewers in Cuba Avenue, etc.  NYCDDC Project ID SER 200238	<del>_</del> , · · ·
Location of Project: Staten Island, New York	_
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:	
Name: Sasan Sareh, P.E.	
Title: Engineer-In-Charge, Staten Island Phone Number: (718) 391-2542	<del></del>
Infrastructure Division  Brief description of the Project completed or the Project in progress: <u>Preparation of Construction</u> Construction of storm and sanitary sewers in street right-of-way that involved dewatering an	∟Reports
construction disturbance with potential impacts on the surrounding residential structures.	<u>-</u>
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Sub-Contractor	. :
Amount of Contract, Subcontract or Sub-subcontract: \$15,000	
Start Date and Completion Date: August 2013 - June 2013	-
***********	
Name of Contractor: C.A.C. Industries Inc.	<del></del>
Name of Project: Reconstruction of Gateway Estate (Nehemiah Creek) - Phase C  NYCDDC Project ID HD-161C	
Location of Project: Borough of Brooklyn	
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:	
Name: Flore Bruneau, PE	
Title: Engineer in Charge (EIC) Phone Number: (646) 739-7122	
Brief description of the Project completed or the Project in progress: <u>Preparation of Construction</u> Construction of storm and sanitary sewers in street right-of-way that involved dewatering arconstruction disturbance with potential impacts on the surrounding residential structures.	
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Sub-Contractor	· ·
Amount of Contract, Subcontract or Sub-subcontract: \$20,000	<del></del>
Start Date and Completion Date: March 2014-June 2014	<del>-</del>

Name of Contractor: ('HO. TWUSTAIRS TWC
Name of Project: 180 157 0F5B5 FEATURES
Location of Project: NOSTMAND AVE & NUGERS AVEBRO
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: JA TIN UPAPITATY
Title: 7- 10 Phone Number: 718 391-2282
Brief description of the Project completed or the Project in progress: ALLONST SUBSTITUTE OF THE DIANT OF THE WORLD BUS OF THE PROPERTY OF
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 14,945,648-58
Start Date and Completion Date: 1/3/13 - 6/24/14
**********
Name of Contractor: CACINDUSTRIES TUC
Name of Project:
Location of Project: BOW OF THE BRUK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: WALIS A BUIMIAN 917642-7731
Title: Phone Number: 7/8 39/-
Brief description of the Project completed or the Project in progress: No AD WAY
- WORK
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 36 165 168.80
Start Date and Completion Date: 8/16/10 - 10/22/13
•

Name of Contractor: CAC DUNUSTRIES TUC
Name of Project: CO/1898 PONT BIND
Location of Project: BORD OF QUEENS
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: John PAVLIK, NYOSIC Title: EEC Phone Number: 718 391-1036
Brief description of the Project completed or the Project in progress:
WILL INCLUDE 9 RINDING OVER CAY
Was the Project performed as a prime, a subcontractor or a sub-subcontractor.
Amount of Contract, Subcontract or Sub-subcontract: 212 Million
Start Date and Completion Date: 9/10 - ON SON
************
Name of Contractor: CAC TOUDUSTRIES TUC
Name of Project: Hy (H LING
Location of Project: Bone OF MAN HATTAN
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: LEV GRECCO Title: V P CAP PRONOM Phone Number: 7/2 - 3/2 - 37/3
Phone Number:
Brief description of the Project completed or the Project in progress:
Vas the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: #36 million
tart Date and Completion Date: 6/9 70 4/11

Name of Contractor: (IAC TUD) STRATIC
Name of Project: //(///Live
Location of Project: BOND of MANHAHAN
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: GW SKECCO
Phone Number: 212-312-3718
Brief description of the Project completed or the Project in progress: / WSTANATION
v zing pawing
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Aune
Amount of Contract, Subcontract or Sub-subcontract: 36 million
Start Date and Completion Date: 69 70 4/1
*********
Name of Contractor: CAC TOUSTURY TUC
Name of Project: EAST FOUNTSM (
Location of Project: BONE OF THE BUINK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: John //h/U/C
Title: Phone Number:
Brief description of the Project completed or the Project in progress: TASTALINETON
MEDIAD/ JANTERS MAILS
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: 3 // M//Lon
Start Date and Completion Date: 2/11 - ON COINS
. 0

SMIK GROUP INC HAZMAS

DE

#### Qualification Form

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: THE SMK GROUP INC:
Name of Project: SOIL EXCAVATION AT CHURCH ST
Location of Project: PANYINT CONTRACT #WTC-264.59
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: To M G RYCAN  Title: PM Phone Number: (973) 332 - 8868  Brief description of the Project completed or the Project in program VD 168054 - 55
Brief description of the Project completed or the Project in progress: DISPOSAL OF  NON-HAZARDOUS CONTAMINATED SOIL
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date: 12/19/13 +0 12/23/13
***************
Name of Contractor: THE SMK GROUP /NC
Name of Project: DASNY-BROND MENTA HEALTH PEDEN
Location of Project: T32000, NY
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: DEREK SERPE  Title: PM Phone Number: (973) 332-7092
Brief description of the Project completed or the Project in progress: TRANSPORTONOMY  DISPOSAL OF NOW-HARMOUS ROCK
Was the Project performed as a prime, a subcontractor or a sub-subcontractor.
Amount of Contract, Subcontract or Sub-subcontract: 428,015
tart Date and Completion Date: 5/22/13 To 6/18/13

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

# Qualification Form

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: THE SMK GROUP (NC)
Name of Project: RIVER BRIDGE TOWERS
Location of Project: Long /SLAND City, NY
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed
Name: Brian Penselast  Title: Pres Phone Number: (631) 475-0020  Brief description of the Project completed on the Project in the Project completed on the Project complete
Phone Number: (631) 475-0020
Brief description of the Project completed or the Project in progress: TRANSPORTATION  + DISPOSAL DE NON-HAZARDOUS CONTAMINATES SOR
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract: #37,000
Start Date and Completion Date: 1/8/13 10 3/12/14
****************
Name of Contractor: THE SMK GROUP /NC.
Name of Project: EXCAVATION AND CLEANING OF SITE P
Location of Project: 555 W34T4 ST, NY, NY
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: DEREK SERPE  Title: PM Phone Number: (973) 332-7592
Phone Number: (973) 332-7592
Frief description of the Project completed or the Project in progress: TRANS PORTATION  LE DIS POSM OF NON-HAZALDOUS CONTAMINATED SOIL
Vas the Project performed as a prime, a subcontractor or a sub-subcontractor. Subcontractor
mount of Contract, Subcontract or Sub-subcontract: #/00,300
tart Date and Completion Date: 8/14/12 TO 9/28/12

SMK GROUP INC

# Qualification Form

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: THE SMK GROUP NC
Name of Project: SOIL EXCAVATON AT CHURCH ST
Location of Project: PANY INJ CONTENCY #WTC-264.59
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: Tom Grycan Phone Number: (973) 332 - 8868
Brief description of the Project completed or the Project in progress: DISPOSAL OF  NON-HAZALDOUS CONTAMINATED SOIL
Was the Project performed as a prime, a subcontractor or a sub-subcontractor.
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date:     2   19   13 +0   2   23   13
**********
Name of Contractor: THE SMK GROUP INC
Name of Project: DASNY-BRONG MENTA HEALTH REDEV.
Location of Project: TBROWN, NY
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: DEREK SERPE Title: PM Phone Number: (973)332-7092
Title: PH Phone Number: (973) 332-7992
Brief description of the Project completed or the Project in progress: TRANSPORTED TO DISPOSAL OF NOW-HARMONS FOCK
Was the Project performed as a prime, a subcontractor or a sub-subcontractor.
Amount of Contract, Subcontract or Sub-subcontract: 428,015
Start Date and Completion Date: 5/22/13 To 6/18/13

# SITEWONKS LANDSCAPE ARCH. RESTORATION SPECIALIST

# Qualification Form

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: SITELLORKS LANDSCAPE ARCHITECTURE
Name of Project: Speingfield GARDENS
Location of Project: QUEENS NEW YORK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: NYCEDC - JAWAD ASSAF Title: VICE PRESIDENT Phone Number: (2/2) 312.81/5
Brief description of the Project completed or the Project in progress: NFRASTRUTURE PROJECT W/WEILAND RESTORATION AND CREATION. STEWNERS 15 THE RESTORATION SPECIALIST.
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: SUBCONTRACTOR
Amount of Contract, Subcontract or Sub-subcontract: \$\\\\492,284\)
Start Date and Completion Date: HARCH 2013 - Spring 2015
*************
Name of Contractor: SHEWORKS LANDSCAPE DRUMTEGORE
Name of Project: QUEEN-> PLAZA PEDESTRIAN & BICYCLE   MPROVEMENT
Location of Project: QUEENS NEW YORK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: NYCEOC JAWAD ASSAF Title: VICE POESIDENT Phone Number: (212) 312.3715
Brief description of the Project completed or the Project in progress FOAD REALGHHENT, BLUCKE PATH & PEDESTRIAN PATH WITH WELLAND CREATION,
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: SUBCONTRACTOR
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: SUBCONTRACTOR  Amount of Contract, Subcontract or Sub-subcontract: \$\frac{2000}{2000}\$

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# **Qualification Form**

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: SITEWORKS LANDSCAPE SPECIFECTURE
Name of Project: GREENPOINT TRANSHITTER PARK
Location of Project: BROOKLYN, NEW YORK
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: VEN GRECO Title: VICE PRESIDENT Phone Number: (212) 312.3743
Brief description of the Project completed or the Project in progress: NEW WATER FRONT PACK WITH WATERS FORE PLANTING PLANTEQUIPMENT UNINS & PLANTINGS
Was the Project performed as a prime, a subcontractor or a sub-subcontractor.
Amount of Contract, Subcontract or Sub-subcontract: \$86,400
Start Date and Completion Date: JUNE 2010 - Spense 2013
****************
Name of Contractor:
Name of Project:
Location of Project:
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name:
Title: Phone Number:
Brief description of the Project completed or the Project in progress:
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date:

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

BID BOOKLET DECEMBER 2013

APPLEMON ASSOCIATES
MONITORING

# **Qualification Form**

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: Difazio Industries
Name of Project: Construction of Storm Sewers and Sanitary Sewers in Cuba Avenue, etc.  NYCDDC Project ID SER 200238
Location of Project: Staten Island, New York
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: Sasan Sareh, P.E.
Title: Engineer-In-Charge, Staten Island Phone Number: (718) 391-2542 Infrastructure Division
Brief description of the Project completed or the Project in progress: Preparation of Construction Reports Construction of storm and sanitary sewers in street right of way that in the Project in Pro
construction disturbance with potential impacts on the surrounding residential structures.
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Sub-Contractor
Amount of Contract, Subcontract or Sub-subcontract: \$15,000
Start Date and Completion Date: August 2013 - June 2013
*************
Name of Contractor: C.A.C. Industries Inc.
Name of Project: Reconstruction of Gateway Estate (Nehemiah Creek) - Phase C NYCDDC Project ID HD-161C
Location of Project: Borough of Brooklyn
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: Flore Bruneau, PE
Title: Engineer in Charge (EIC) Phone Number: (646) 739-7122
Brief description of the Project completed or the Project in progress: <u>Preparation of Construction</u> Reports Construction of storm and sanitary sewers in street right-of-way that involved dewatering and construction disturbance with potential impacts on the surrounding residential structures.
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Sub-Contractor
Amount of Contract, Subcontract or Sub-subcontract: \$20,000
Start Date and Completion Date: March 2014-June 2014

ASPEN LANDSCAPING BMP

#### **Qualification Form**

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: Northeast Remsco
Name of Project: West Brook Rd Bridge over Wanaque Resembir
Location of Project: Passaic, NJ
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: County of Passaic Title: Proceed Eng. Phone Number: 773 365 5624
11116: Phone Number: 173 365 5624
Brief description of the Project completed or the Project in progress: Planted tres,  topsoil, first seed, and applied ensure control metting
Was the Project performed as a prime, a subcontractor of a sub-subcontractor: 506 confector
Amount of Contract, Subcontract or Sub-subcontract: \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Start Date and Completion Date: April 2014 - cumnt
***********
Name of Contractor: George Harms Construction
Name of Project: NTTA - 65P Shoulder restoration 1200.199
Location of Project: Ocean County, NJ
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: + NJTA - 6.58
Name: NJTA - 688  Title: Prout 196 Phone Number: 732 741 4500
Priof decomption of the During annual and and and
Seeding planting, withing soil stabilization mething
Was the Project performed as a prime, a subcontractor or a sub-subcontractor: Sheaphale
Amount of Contract, Subcontract or Sub-subcontract: \$577352.27
Start Date and Completion Date: Oct 2012 - amont

# **Qualification Form**

# Project ID: 1

	completed to meet the special experience requirements for this contract. Please or submission of all required projects.	
Name of Contractor:	APS contracting	
Name of Project:	West District Police Station	
Location of Project:	Jersey City NJ	
Owner or Owner's repr	esentative (Architect or Engineer) who is familiar with the work performed:	
	a Bozarov	
Title: En	Phone Number: 173 754 1780	
Brief description of wo	ork completed: Planted free, should, structural 8	-110
Was the work performe	ed as a prime or a subcontractor:	
Amount of Contract:	\$51,794	
Date of Completion:	Fall 2012	
******	*****************************	
Name of Contractor:	English Paving	
Name of Project:	Riverdave Improvements	
Location of Project:	Gorfild, NJ	
Owner or Owner's repre	sentative (Architect or Engineer) who is familiar with the work performed:	
Name:	Edward Filler	
Title: Em	Phone Number: (773) 928 2500	
Brief description of wor	k completed: Planty, studieglail plann	ent
Was the work performed	as a prime or a subcontractor:	
Amount of Contract:	205,383	· · · · · · · · · · · · · · · · · · ·
Date of Completion:	Current APS- complete spring 2014	
CITY OF NEW YORK	BID BOC	OKLET
DDC	4 December	er 2013

# **Qualification Form**

List previous projects completed to meet the special experience requirements for this contract. Please photocopy this form for submission of all required projects.

Name of Contractor: CAC TOU DUSTINES TIC
Name of Project: SE 16665
Location of Project: BKLYN
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: DAUNY CEFICOUITZ Title: Phone Number:
Brief description of the Project completed or the Project in progress:  ENERGY AGAIN OF SEWEKS
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date: May 2009-May 2010
*****
Name of Contractor: AR Tubustkies TUC
Name of Project:
Location of Project: Bkly N
Owner or Owner's representative (Architect or Engineer) who is familiar with the work performed:
Name: DAWNY CEFKOW, TZ
Title: Phone Number:
Brief description of the Project completed or the Project in progress:  MENGENCY / LEPH/L C/ SEWE/LS
Was the Project performed as a prime, a subcontractor or a sub-subcontractor:
Amount of Contract, Subcontract or Sub-subcontract:
Start Date and Completion Date:  May 2008
omi sur une compresson sur.

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# BID SCHEDULE

- share of the Bidder's anticipated profit, overhead costs, and other indirect which do not reflect reasonable actual costs plus a reasonable proportionate An unbalanced bid is considered to be one containing lump sum or unit items The Agency may reject a bid if it contains unbalanced bid prices. costs, anticipated for the performance of the items in question. 3
- The following bid prices on Unit Price Contracts are to be paid for the actual quantities of the several classes of work in the completed work or structure, and they cover the cost of all work, labor, material, tools, plant and appliances of every description necessary to complete the entire work, as specified, and the removal of all debris, temporary work and appliances. (2)
- please be sure a legible bid is entered, in ink, for each item. Alterations must be initialed in ink by the bidder. 3
- The Extended Amount entered in Column 5 shall be the product of the Estimated Quantity in Column 2 times the Unit Price Bid in Column 4. 3
- before bidding, must advise the Commissioner, in writing, if any Prospective bidders must examine the Bid Schedule carefully and, pages are missing, and must request that such missing pages be consecutively, as follows: B - 3 through B - 47 [REVISION # 1] furnished them. The pages of this Bid Schedule are numbered 2

B - 3 [REVISION # 11

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

8502013HW0061C Contract PIN Project ID

HW0985

		TNTS 3)	SED -	%	00	8	
	COL. 5 EXTENDED AMOUNTS (IN FIGURES)		DOLLARS	\$5,052	, 1,230	24 60 8 207 792 60	*355 584 00
		s (s	CTS	00	00	0	00
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	9	9	37 \$	87
DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN	<u>cor. 3</u>	CLASSIFICATIONS		GEOTEXTILE SEPARATION	GEOTEXTILE DRAINAGE	ASPHALTIC CONCRETE WEARING COURSE, 2" THICK	BINDER MIXTURE
5	COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		842.0 S.Y.	205.0 S.Y.	8,658.0 S.Y.	7,408.0 TONS
	COL. 1	ITEM NUMBER (SEQUENCE NO.)		207.21 (001)	207.22 (002)	4.02 AF-R (003)	4.02 CA (004)

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

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N 8502013HW0061C HWQ985

89	CIS		0	00	00
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	189 97°	585 m *	L19 *	10057
	CIS	3	9	00	00
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	9 *	// \$	\$	07 005 7 \$
CLASSIFICATIONS		4" CONCRETE SIDEWALK (PIGMENTED)	7" CONCRETE SIDEWALK (PICMENTED)	EMBEDDED PREFORMED DETECTABLE WARNING UNITS	TREES REMOVED (18" TO UNDER 24" CALIPER)
COL. 2 ENGINEER'S ESTIMATE OF	COANTITIES	2,783.0 S.F.	1,903.0 S.F.	617.0 S.F.	1.0 EACH
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	4.13 ABS (005)	4.13 BBS (006)	4.13 DE (007)	4.16 AC (008)

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

Contract PIN 8502013HW0061C

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		UNTS (S)	CTS			<u>,</u>	<u> </u>		8	<u> </u>	3	 	9	<u> </u>
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		(	2,500			\$ 7,370		00% 01 3		00 11 00	
		SS (S	CIS		· 	9			9		70	 	01	<u> </u>
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS		,	2,500		,	\$ 350 60		* ×00	,	22	
	COT. 3	CLASSIFICATIONS		TREES REMOVED (24" TO UNDER 48" CALIPER)			MAINTENANCE TREE PRUNING (UNDER 12" CAL.)			1.	CAL.)	MAINTENANCE TREE PRUNING (18" TO UNDER 24"		
-   -	COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		1.0	EACH		21.0	EACH		26.0	EACH	25.0	EACH	·
	COT. 1	ITEM NUMBER (SEQUENCE NO.)		4.16 ADE	(600)		4.18 A	(010)	. •	4.18 B	(011)	4.18 C	(012)	

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, w	CITS	00	0	8	07
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	255 22 8 00	, 6,360	\$ 26, 775	, 150, 360, 60
	CIS	00	0 0	00	0
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	255	5	5/ \$	00 012 8
CLASSIFICATIONS  CLASSIFICATIONS  MAINTENANCE TREE PRUNING (24" CAL. AND  OVER)		MAINTENANCE TREE PRUNING (24" CAL. AND OVER)	SEEDING	TREE CONSULTANT	24" R.C.P. CLASS III STORM SEWER, ON CONCRETE CRADLE
COL. 2 ENGINEER'S	COMMITTES	41.0 EACH	2,100.0 s.x.	1,785.0 P/HR	716.0 I.F.
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	4.18 D (013)	4.20 (014)	4.21	50.21M3C024D (016)

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

Contract PIN 8502013HW0061C Project ID HW0985

							•
	ģ		CIS	60	8	8	0 0
-	COL. 5 EXTENDED AMOUNTS	(IN FIGURES)	DOLLARS	066 38 :	, 1/8 660	270 00 34, 250	\$ 7,830
			crs	00	07	00	00
	COL. 4	(IN FIGURES)	DOLLARS	\$ 330	07 076 8	\$ 270	s 290 6°
DIVISION OF INTRASTRUCTORE - BOREAU OF DESIGN	COL. 3 CLASSIFICATIONS			30" R.C.P. CLASS III STORM SEWER, ON CONCRETE CRADLE	36" R.C.P. CLASS III STORM SEWER, ON CONCRETE CRADLE	24" R.C.P. CLASS III STORM SEWER, ENCASED IN CONCRETE	30" R.C.P. CLASS III STORM SEWER, ENCASED IN CONCRETE
5	COL. 2 ENGINEER'S	ESTIMATE OF OUANTITIES		263.0 L.F.	349.0 L.F.	275.0 I.F.	27.0 L.F.
	COL. 1 ITEM NUMBER	(SEQUENCE NO.)		50.21M3C030D (017)	50.21M3C036D (018)	50.21M3E024D (019)	50.21M3E030D (020)

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

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	2	CHS	00	00	90	00
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	00 776 811 8	\$ 23,000	% 97,310	\$ 2.60
	0	CIS	00	00	2	9
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	3%	250	270	, 296 60
COL. 3	CLASSIFICATIONS		36" R.C.P. CLASS III STORM SEWER, ENCASED IN CONCRETE	12" E.S.V.P. STORM SEWER, ON CONCRETE CRADLE	15" E.S.V.P. STORM SEWER, ON CONCRETE CRADIE	18" E.S.V.P. STORM SEWER, ON CONCRETE CRADLE
COL. 2	ENGINEER'S ESTIMATE OF	Carringo	356.0 L.F.	92.0 L.F.	353.0 L.F.	285.0 L.F.
COL. 1	ITEM NUMBER	(Component)	50.21M3E036D (021)	50.31MC12 (022)	50.31MC15 (023)	50.31MC18 (024)

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

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	1				•		•
		S	CTS	8	0	29	0
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	\$ 27 190	30,000	000 hs	39,000
			SES	0	90	00	00
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	\$ 230	3 660	0007 *	000 %) *
DIRECTOR OF INTEREST AND TORE - BUNEAU OF DESIGN	COT. 3	CLASSIFICATIONS		12" E.S.V.P. STORM SEWER, ENCASED IN CONCRETE	STANDARD 5'-0" DIAMETER PRECAST MANHOLE	STANDARD 6'-0" DIAMETER PRECAST MANHOLE	STANDARD 7'-0" DIAMETER PRECAST MANHOLE
5	COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		118.0 L.F.	10.0 EACH	9.0 EACH	3.0 EACH
	COL. 1	ITEM NUMBER (SEQUENCE NO.)		50.31ME12 (025)	51.11P005 (026)	51.11P006	51.11P007 (028)

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

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			_		
	COF. 3	COL. 4		207. 3	
	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	_	EXTENDED AMOUNTS (IN FIGURES)	8
		DOLLARS	CIS	DOLLARS	CTS
14.0 S.	STANDARD MANHOLE TYPE A-1		<b> </b>		
		3,000	0	,42,000	0
				-	
20	STANDARD SHALLOW MANHOLE TYPE A-3				
		2,500	00	\$ 5000	00
ા જેલે	STANDARD MANHOLE TYPE C-1 ON 36" R.C.P. SEWER				
		,10,000	<u> </u>	10,000	8
	REPLACEMENT OF EXISTING MANHOLE FRAME AND				
Ŭ	COVER	8 260	00	2 600	31
				-	]

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

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COL. 1	COL. 2	DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN  COL. 3	, į		
		200	COL. 4	cor. s	
ITEM NOMBER	ESTINATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	ຊູ
(SECOENCE NO.)	COMPLITES		DOLLARS	DOLLARS	CITS
51.31S00215S (033)	1.0 EACH	STANDARD DROP-PIPE MANHOLE TYPE II ON 15" E.S.V.P. SEWER			
			\$ 26,000 00	\$ 25,000.	9
51.31S00218S (034)	1.0 EACH	STANDARD DROP-PIPE MANHOLE TYPE II ON 18" E.S.V.P. SEWER			
			\$ 20,000 00	2000	00
51.418001	62.0	STANDARD CATCH BASIN, TYPE 1			1
(650)	EACH		000 000 5) \$	\$ 950 000	0
51.418003	1.0	STANDARD CATCH BASIN, TYPE 3		,	1
(036)	ЕАСН		\$ 20, 000 00	20,000	0
			,		1

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

	CIS	21	00	90	90
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	005/178	,775500	000/9/*	160,000
	CIS	00	00	00	00
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	90 975 LC/ 8	00 005 227 \$	\$ 160,000 00	00 000 097 8
CLASSIFICATIONS		OUTFALL NO. 1	OUTFALL NO. 2	OUTFALL NO. 3	OUTFALL NO. 4
COL. 2 ENGINEER'S ESTIMATE OF	OUANTITIES	1.0 EACH	1.0 EACH	1.0 EACH	1.0 EACH
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	51.61F001 (037)	51.61F002 (038)	51.61F003 (039)	51.61F004 (040)

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

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	UNTS S)	SES		4	 <u> </u>	-0-   0-   0-		, , ,	- <del></del>		
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		* 170,000.		05 621	,	8 121	00//2		625.
		CIS		9		00		3			9
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS		000000		25/ \$		8			, 259
COL. 3	CLASSIFICATIONS		OUTFALL NO. 5		12" DUCTILE IRON PIPE BASIN CONNECTION			TELEVISION INSPECTION AND DIGITAL AUDIO-VISUAL RECORDING OF SEWERS		ABANDONING BASINS AND INLETS	
COL. 2	ENGINEER'S ESTIMATE OF		1.0	EACH	863.0	H H		2,712.0 L.F.		3.0	EACH
COL. 1	ITEM NOMBER		51.61F005	(041)	52.11012	(042)		53.11DR (043)		55.11AB	(044)

06/30/2014 **BID PAGES** 2:36PM

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COL. 1	COL. 2	COL. 3	COL. 4		COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)		EXTENDED AMOUNTS (IN FIGURES)	ខ្ម
			DOLLARS	SES	DOLLARS	CIIS
, , , , , , , , , , , , , , , , , , , ,	10,500.0 S.F.	PERMANENT STEEL SHEETING	9	0	, 63000	00
	2,233.0 C.Y.	UNCLASSIFIED EXCAVATION	s 2005	00	396 2355	8
6.19 SBTA (047)	2,000.0 L.F.	FURNISHING AND INSTALLING STEEL BACKED TIMBER GUIDE RAIL WITH TIMBER POSTS AND BLOCK-OUTS	00 08 .		, 172,000	9
6.19 SBTB (048)	2.0 EACH	FURNISHING AND INSTALLING APPROACH ANCHOR UNITS FOR STEEL BACKED TIMBER GUIDE RAIL WITH TIMBER POSTS AND BLOCK-OUTS	\$ 5,000 00		10,000	0

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27.52		367 \$ 291	,	OCHULARS CTS DOLLARS CTS CTS	COL. 1         COL. 2         COL. 3         COL. 4         COL. 5	2   8   9   9	CIN FIGURES) DOLLARS  DOLLARS  \$ 2, 42  \$ 2752	5 6 6	DOLLARS  25		ENGINEER'S ESTIMATE OF OUANTITIES  1,218.0  1,128.0  1,155.0  1,155.0  L.F.
1,218.0 ADDITIONAL HARDWARE  LBS.  97.0 TEMPORARY SIGNS  S.F.	1,218.0 ADDITIONAL HARDWARE  LBS.   \$	1,218.0 ADDITIONAL HARDWARE  LBS.	DOLLARS CTS DOLLARS	-		STO	EXTENDED AMOUNTS (IN FIGURES)	CTS		CLASSIFICATIONS	ENGINEER'S ESTIMATE OF

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

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		 	CIS	8	09	8	03
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	s 3, 673	Ž,	, 460	00 8790 669 60
:		m •	CTS	3	الد	00	0 0
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	s	7	\$ 350 00	\$ 22
DIVISION OF INFRASIRUCTURE - BUREAU OF DESIGN	COL. 3	CLASSIFICATIONS		THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS (4" WIDE)	TEMPORARY PAVEMENT MARKINGS (4" WIDE)	CLEANING OF DRAINAGE STRUCTURES	CROSSING GUARD
DIN	COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		3,061.0 L.F.	184.0 L.F.	4.0 EACH	1,697.0 P/HR
	COL. 1	ITEM NUMBER (SEQUENCE NO.)		6.44	6.49 (058)	6.50	6.52 CG (060)

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

	CIS	0	0	00	92
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	, <u>257</u> .	\$ 1.982	, 19,690	00 36,514 66
	CIS	80	00	60	00
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	\$	2	\$	81 *
CLASSIFICATIONS		REMOVE EXISTING LANE MARKINGS (4" WIDE)	SAWCUTTING EXISTING PAVEMENT	TEMPORARY CONCRETE BARRIER WITH FENCE	SUBBASE COURSE, SELECT GRANULAR MATERIAL
COL. 2 ENGINEER'S ESTIMMTE OF	OUANTITIES	735.0 L.F.	991.0 L.F.	3,938.0 L.F.	2,053.0 C.Y.
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	6.53 (061)	6.55 (062)	6.59 PF (063)	6.67

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

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		ഇ	CITS	20	8	00	0
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	\$ 27	5,232	2118	4851:
		<b>~</b> ~	CIS	<u>è</u>	0	00	00
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	45	9) *	9	27
DIVISION OF INTRASTRUCTIONS - BONEAU OF DESIGN	COI. 3	CLASSIFICATIONS		GRINDING EXISTING ASPHALTIC CONCRETE WEARING COURSE	REMOVING EXISTING TRAFFIC AND STREET NAME SIGNS	REMOVING EXISTING TRAFFIC AND STREET NAME SIGN POSTS	FURNISHING NEW NON-REFLECTORIZED TRAFFIC SIGNS
	COL. 2	ENGINEER'S ESTIMATE OF		2,737.0 C.Y.	872.0 S.E.	1,352.0 L.F.	72.0 S.E.
	COL. 1	ITEM NUMBER (SEOURNCE NO.)		6.75 (065)	6.82 A (066)	6.82 B (067)	6.83 AA (068)

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

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1	1	i			
15 S	CTS	6	3	8	8
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	\$ 7,721	20 188 (/ *	n9"//"	34751 8
	CTS	0	0	07	0
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS		\$ 23	<i>37</i> *	0 n h / *
CLASSIFICATIONS		FURNISHING NEW TRAFFIC SIGN POSTS	FURNISHING NEW REFLECTORIZED TRAFFIC SIGNS	INSTALLING TRAFFIC SIGNS	INSTALLING TRAFFIC SIGN POSTS
COL. 2 ENGINEER'S ESTINATE OF		1,103.0 L.F.	756.0 8.F.	830.0 S.F.	1,103.0 L.F.
COL. 1 ITEM NUMBER (SECUENCE NO.)		6.83 AB (069)	6.83 AR (070)	6.83 BA (071)	6.83 BB (072)

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

Contract PIN 8502013HW0061C Project ID HW0985

		DIVISION OF INTRASTRUCTURE - BUREAU OF DESIGN				
COL. 1	COL. 2	COT. 3	COL. 4	T	COL. 5	
ITEM NUMBER	ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	٠.	EXTENDED AMOUNTS (IN FIGURES)	E S
	STITINGS		DOLLARS	SES	DOLLARS	CIS
6.86 AA	42.0	FURNISHING NEW STREET NAME SIGNS				<u> </u>
(073)	E C		33.0	00	, 1,386	8
						· <u></u>
6.86 AB	250.0	FURNISHING NEW STREET NAME SIGN POSTS				
(074)	1.1 E4		1	0,	60 2.73	8
				.		<u></u>
6.86 BA	42.0	INSTALLING STREET NAME SIGNS		T		
(075)	Ex O)			0	2 8	3
			•			<u> </u>
6.86 вв	250.0	INSTALLING STREET NAME SIGN POSTS				
(920)	H.				~	
			*	9   2   *	1 3 00	8
				:		

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

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<b>6</b>	CIS	8	00	%	00
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	,7600	, 27,000	00 25121 8	00 282 036
	CTS	00	00	6 0	00
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	\ <u>\</u>	27,000	\$	2 2 3
COL. 3 CLASSIFICATIONS		PLASTIC BARRELS	AUDIO AND VIDEO DOCUMENTATION SURVEY	FURNISHING AND DELIVERING 6-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)	FURNISHING AND DELIVERING 8-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)
ENGINEER'S ESTIMATE OF	STITINGO	1,520.0 Each	1.0 L.S.	399.0 L.F.	4,948.0 L.F.
COL. 1 ITEM NUMBER	OZZOBNOS NO.)	6.87	6.99 (078)	60.11R606 (079)	60.11R608 (080)

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

Contract PIN 8502( Project ID HWQ98

IN 8502013HW0061C HWQ985

	S.	GTS 8	0	8	8	8
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	\$23.045	303 240	00525	0877
	m 🙃	CTS	00	00	00	$ec{ec{ec{ec{ec{ec{ec{ec{ec{ec{$
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	09	, 2,500	; los
<u>c - 700</u>	CLASSIFICATIONS		LAYING 6-INCH DUCTILE IRON PIPE AND FITTINGS	LAYING 8-INCH DUCTILE IRON PIPE AND FITTINGS	FURNISHING AND DELIVERING DUCTILE IRON MECHANICAL JOINT 24-INCH DIAMETER AND SMALLER FITTINGS, INCLUDING WEDGE TYPE RETAINER GLANDS	UNDERDRAIN FILLER, TYPE 1
COL. 2	ENGINEER'S ESTIMATE OF	COANTITIES	419.0 L.F.	5,054.0 I.F.	23.0 TONS	22.0 C.Y.
COL. 1	ITEM NUMBER	(SEQUENCE NO.)	60.12D06 (081)	60.12D08 (082)	60.13M0A24 (083)	605.0901

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	S E	CIS	8	8	20	8
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	0925	095 (A°	, 108,000	وكر
	m •	CIS	03.	00	00	00
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	° 20	2,560 60	225%	*
<u>cor. 3</u>	CLASSIFICATIONS		PERFORATED POLYVINYL CHLORIDE UNDERDRAIN PIPE	FURNISHING AND DELIVERING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	FURNISHING AND DELIVERING 8-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	FURNISHING AND DELIVERING 8-INCH WET CONNECTION TAPPING VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS
COL. 2	ESTIMATE OF	COMPLETES	263.0 L.F.	19.0 EACH	24.0 EACH	50.0 EACH
cor. 1	ITEM NUMBER	(SECOENCE NO.)	605.1602 (085)	61.11DNA406 (086)	61.11DMM08 (087)	61.11TWC08 (088)

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

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S II.	CIS	3	0	8	8
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	esc 7 :	\$ 12,000	25	95 000
\$ ≎	CIS	00	00	0	00
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	252	8	s	000 5 \$
CLASSIFICATIONS		SETTING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	SETTING 8-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	SETTING 8-INCH WET CONNECTION TAPPING VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	FURNISHING AND DELIVERING HYDRANTS - SMITH TYPE (8-2-LP)
ESTINATE OF	COUNTIES	19.0 EACH	24.0 EACH	50.0 EACH	19.0 EACH
COL. 1 ITEM NUMBER	(SEYCENCE NO.)	61.12Dr <del>1</del> 406 (089)	61.12D <del>/1</del> 408 (090)	61.12TWC08 (091)	62.11\$\$ (092)

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

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COL. 1	COL. 2	cor. 3	P TOO	COL. 5	
ITEM NUMBER	ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	TS.
(SEQUENCE NO.)	COMMITTEES		DOLLARS	DOLLARS	CTS
62.12sG (093)	19.0 EACH	SETTING HYDRANTS COMPLETE WITH WEDGE TYPE RETAINER GLANDS	000017 \$	° 20,960	0
62.13RH (094)	15.0 EACH	REMOVING HYDRANIS	00 / *		0
62.14FD (095)	38.0 EACH	FURNISHING, DELIVERING AND INSTALLING HYDRANT FENDERS WITH DECORATIVE CAPS (BLACK)	9 00 8	11 400	3
624.0401 (096)	44.0 S.F.	COBBLE GUTTERS	0 0 PS	0, 2, 200	3

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

8502013HW0061C Contract PIN Project ID

HW2985

•		SI	CHS		8	0	3	8
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		45,000	7	9/	6 (37
		<b>s</b> ::	CIS	<u> </u>	0	0	31	0
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS		\$ 2,500 60			, ,
DIVISION OF INFRASIRUCTURE - BUREAU OF DESKIN	<u>con. 3</u>	CLASSIFICATIONS		FURNISHING AND DELIVERING VARIOUS CASTINGS		WITHDRAWING AND REPLACING HOUSE SERVICES USING 1-1/2-INCH OR LARGER SCREW TAPS	WITHDRAWING AND REPLACING HOUSE SERVICES USING SMALLER THAN 1-1/2-INCH SCREW TAPS	CUTTING AND OFFSETTING HOUSE SERVICE WATER CONNECTIONS (EQUAL TO OR GREATER THAN 3-INCH DIAMETER)
מ	COL. 2	ENGINEER'S ESTIMMTE OF OUANTITIES		18.0	ROL	34.0 EACH	16.0 EACH	137.0 I.F.
	COL. 1	ITEM NUMBER (SEQUENCE NO.)		63.11VC	(097)	64.11EL (098)	64.11ST (099)	64.12COEG (100)

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

Contract PIN 8502013HW0061C Project ID HWQ985

្ត ស្ន	CTS	90	$ $ $\overset{\circ}{\sigma}$	8	00
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	97/	77	347	25
	CIS	81	0	9	00
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	*			,
CLASSIFICATIONS		CUTIING AND OFFSETTING HOUSE SERVICE WATER CONNECTIONS (LESS THAN 3-INCH DIAMETER)	EXTENDING HOUSE SERVICE WATER CONNECTIONS (EQUAL TO OR GREATER THAN 3-INCH DIAMETER)	EXTENDING HOUSE SERVICE WATER CONNECTIONS (LESS THAN 3-INCH DIAMETER)	FURNISHING, DELIVERING AND INSTALLING WET CONNECTION SIEEVE ON 8-INCH WATER MAIN PIPE WITH VARIOUS OUTLETS
COL. 2 ENCINEER'S ESTIMME OF	OUANTITIES	126.0 L.F.	441.0 L.F.	347.0 L.F.	50.0 EACH
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	64.12COLT (101)	64.12ESEG (102)	64.12ESLT (103)	64.13WC08 (104)

NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION

Contract PIN 8502013HW0061C

Project ID HWQ985

DID FACES	MG	DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN				
COL. 1	COL. 2	COL. 3	COL. 4		COL. 5	
ITEM NUMBER	ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)		EXTENDED AMOUNTS (IN FIGURES)	δυ.
(SEQUENCE NO.)	Carrina		DOLLARS	CIS	DOLLARS	crs
65.11BR (105)	268.0 LBS.	FURNISHING, DELIVERING AND INSTALLING BANDS, RODS, WASHERS, ETC., COMPLETE, FOR RESTRAINING JOINTS	82	0	2	100
65.21PS (106)	5,347.0 L.F.	FURNISHING AND PLACING POLYETHYLENE SLEEVE Unit price bid shall not be less than: \$ 0.50	45-	81	2, 673	8
65.31FF (107)	175,106.0 S.F.	FURNISHING, DELIVERING AND PLACING FILTER FABRIC Unit price bid shall not be less than: \$ 0.10	er.	0	, 175.0	0
65.51PC (108)	32.0 C.Y.	FURNISHING AND PLACING CAST-IN-PLACE CONCRETE CLASS 40 AND PRECAST CONCRETE CLASS 50	, 500	0.0	000 91 .	0

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

Contract PIN 8502013HW0061C Project ID HWQ985

80 E4	CTS	5	00	8	$\beta$
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	22 700%	* 72,000	,1725	00 3 6 00
S &	SES	5	00	00	99
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	8	57.	5// \$	08 *
CLASSIFICATIONS		FURNISHING, DELIVERING AND PLACING STRUCTURAL, REINFORCING AND MISCELLANEOUS STEEL	FURNISHING, DELIVERING AND PLACING SCREENED GRAVEL OR SCREENED BROKEN STONE BEDDING	PROCTOR ANALYSIS	IN-PLACE SOIL DENSITY TEST
COL. 2 ENGINEER'S ESTIMMTE OF	COMMITTEES	5,183.0 LBS.	480.0 C.Y.	15.0 EACH	45.0 EACH
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	65.6188 (109)	65.71 <i>SG</i> (110)	7.12 A (111)	7.12 B (112)

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

8502013HW0061C Contract PIN Project ID

HW0985

COL. 1	COL. 2	COL. 3	COL. 4	COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	S.
	COMMITTES		DOLLARS	DOLLARS	CTS
7.13 B (113)	15.0 MONTH	MAINTENANCE OF SITE		•	
		Unit price bid shall not be less than: \$ 7,214.00	37214 60 3108 2	\$ 108 210	8
7.16 D	210.0	TEST PITS			
(114)	G.Y.		00	270	8
7.36	6,300.0	PEDESTRIAN STEEL BARRICADES			
(115)	년 년		\$ S	52 55 02	8
		•			İ
7.88 AA	1.0	RODENT INFESTATION SURVEY AND MONITORING			
(116)	L.S.		8 111 60	001	8
		Unit price bid shall not be less than: \$ 3,150.00	300	թ. )	

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

Contract PIN 8 Project ID F

N 8502013HW0061C HWQ985

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COL. 5 EXTENDED AMOUNTS	(IN FIGURES)	DOLLARS		28/ 6			127	**		12852 1			00 000 91	8 / 4 / 8
		252		00			0,7			0			,	<u>,</u>
COL. 4 UNIT PRICES	(IN FIGURES)	COLLINARS		62						00 89				8
COL. 3 CLASSIFICATIONS			RODENT BAIT STATIONS		Unit price bid shall not be less than: \$ 63.00	BAITING OF RODENT BAIT STATIONS		Unit price bid shall not be less than: \$ 11.00	WATERBUG BAIT APPLICATIONS		Unit price bid shall not be less than: \$ 68.00	FENCING		Unit price bid shall not be less than: \$ 1.00
COL. 2 ENGINEER'S	ESTIMATE OF OUANTITIES		114.0	EACH		114.0	EACH		189.0	BLOCK		16,368.0	in En	
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	4 00	7.88 AB	(/11)		7.88 AC	(118)		7.88 AD	(119)		70.31FN	(120)	-

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

Contract PIN 8502013HW0061C Project ID HWQ985

		ounts es)	CIS	00	<u> </u>		99			<u>"</u>	<u> </u>	0	<u> </u>
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	$\alpha \lambda$			22	•		625,22		985.	n.
ŀ			CTS	00			00		<u> </u>	00	<u> </u>	0)	
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	22 00			\$			32			
	COL. 3	CLASSIFICATIONS		EXCAVATION OF BOULDERS IN OPEN CUT	Unit price bid shall not be less than: \$ 42.00	ROCK EXCAVATION			CLEAN BACKFILL		Unit price bid shall not be less than: \$ 7.50	FURNISHING AND PLACING SHEETING AND BRACING IN TRENCH FOR WATER MAIN PIPE 12-INCH IN DIAMETER AND LESS	
	COL. 2	ENGINEER'S ESTIMATE OF	COMMITTEES	10.0 C.Y.		22.0	S. S.		630.0	S. F.		536.0 S.F.	
	COL. 1	ITEM NUMBER	(SEÇORACE NO.)	70.51EO (121)		70.61RE	(122)		70.81CB	(123)		70.91SW12 (124)	

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

Contract PIN 8502013HW0061C

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CIS o O છ 8 8 EXTENDED AMOUNTS (IN FIGURES) アノス COL. 5 DOLLARS 5d, 2×1 00100 CHS (IN FIGURES) UNIT PRICES 20 COL. 4 DOLLARS ADDITIONAL EARTH EXCAVATION INCLUDING TEST HYDRAULIC FILL FOR ABANDONED SEWERS AND ADDITIONAL SELECT GRANULAR BACKFILL Unit price bid shall not be less than: \$ 11.50 Unit price bid shall not be less than: \$ 9.00 CLASSIFICATIONS CONSTRUCTION REPORT PITS (ALL DEPTHS) WATER MAINS 158.0 1.0 210.0 C.Y. L.S. C.X. ESTIMMTE OF ENGINEER'S OUANTITIES COL. 2 (SEQUENCE NO.) ITEM NUMBER COL. 1 73.31AE0 72.11HF 73.41AG 76.11CR (126)(127)(128)

06/30/2014		I.	Contract PIN		8502013HW0061C	
2:36PM BID PAGES	NEW	NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN	Project ID	E	HWQ985	
ITEM NUMBER	COL. 2 ENGINEER'S ESTINATE OF	COL. 3 CLASSIFICATIONS	COL. 4 UNIT PRICES (IN FIGURES)		COL. 5 EXTENDED AMOUNTS (IN FIGURES)	<u>s</u>
( CON CONTROL WO.)			DOLLARS	grs	DOLLARS	CIS
76.21MR (129)	1.0 L.S.	MONITORING AND POST-CONSTRUCTION REPORT	°57 000	8	\$ 25,000	0
8.01 C1 (130)	3,255.0 TONS	HANDLING, TRANSPORTING AND DISPOSAL OF NON-HALARDOUS CONTAMINATED SOIL		0	327	121
8.01 C2 (131)	8.0 Sets	SAMPLING AND TESTING OF CONTAMINATED/POTENTIALLY HAZARDOUS SOIL FOR DISPOSAL PURPOSES		0	\ <u>\</u>	8
8.01 н (132)	195.0 TONS	HANDLING, TRANSPORTING AND DISPOSAL OF HAZARDOUS SOIL		9	8	25

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NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION

Project ID

DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN

S E	CIS	8	0	00	5
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	*25,000	. 77 *	٠	573 3561 50
	CTS.	<u> </u>	00	00	75
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	,25,000	s	\$	•
CLASSIFICATIONS		HEALTH AND SAFETY	REMOVAL, TREATMENT, AND DISCHARGE/DISPOSAL OF CONTAMINATED WAIER	SAMPLING AND TESTING OF CONTAMINATED WATER	SPECIAL CARE EXCAVATION AND RESTORATION FOR SIDEWALK WORK
COL. 2 ENGINEER'S ESTIMATE OF	OUMNITIES	1.0 L.S.	22.0 DAY	5.0 Sets	2,363.0 S.F.
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	8.01 S (133)	8.01 W1 (134)	8.01 W2 (135)	8.02 A (136)

Contract PIN 8502013HW0061C Project ID HW0985

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

	0					
COP. I	COL. 2	COL. 3	COL. 4	<u> </u>	COT . 3	
ITEM NOMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENI (IN	EXTENDED AMOUNTS (IN FIGURES)	Ø
(SECOENCE NO.)	COMMITTEES		DOLLARS	CTS DOLLARS	ARS	CIS
8.02 B (137)	394.0 L.F.	SPECIAL CARE EXCAVATION AND RESTORATION FOR CURB WORK	\ \ \ \	006/100	<del></del>	00
						•
9.30	1.0	STORM WATER POLLUTION PREVENTION			,	
(138)	r S		25,000 60	25,000	200	3
BMP-7.09	11.0	LICENSED SURVEYOR				
(139)	DAY		2,500 0	00 27,500	<u> </u>	8
BMP-7.103	45.0	CONCRETE				
(140)	G. Y.		00.7	000 70 000		90
			<b>+</b> -	1/2/2		1

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

Contract PIN 8 Project ID B

: PIN 8502013HW0061C ID HWQ985

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	S E	CTS		8	1		6	- 1		ő	1		0	1
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		0 26				2 2 8 0 0		20 12/10	₩		00 3/ 179 00	
		CIS		9			(	3		2	4		0	·
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS		6%				,						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
COL. 3	CLASSIFICATIONS		RIP-RAP AND ANGULAR NATURAL FIELD STONE			GEOGRID			CLEARING, GRUBBING AND REMOVALS			FILE		
COL. 2	ENGINEER'S ESTIMATE OF		65.0	C.Y.		23,237.0	S. F.		18,900.0	Б.		547.0	G.Y.	
COL. 1	ITEM NUMBER		BMP-7.107-B	(141)		BMP-7.109A	(142)		BMP-7.302	(143)		BMP-7.308	(144)	

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

Contract PIN 8502013HW0061C Project ID HW0985

SE SE S S S S S S S S S S S S S S S S S	EXTENDED AMOUN (IN FIGURES) DOLLARS  S. 2 500  S. 2 500	st 00 00 00 00 00 00 00 00 00 00 00 00 00		CLASSIFICATIONS  SELECT GRANULAR FILL  DEMOLITION AND SITE CLEARING  CANOPY TREES (2 1/2" TO 3" CALIPER)  SHRUBS	ENGINEER'S ESTIMATE OF OUNTITIES  733.0 C.Y. C.Y. 40.0 EACH	COL. 1  ITEM NUMBER (SEQUENCE NO.)  BMP-7.308A (145)  BMP-7.312-E (146)  BMP-7.401-A (147)  BMP-7.401-H (147)
		) '				
1						
9/	9	0			EACH	(148)
					30.0	u-10+1/10
1				1		NP-7,401-H
٠						
, 	\$ 60 000	<u>  e</u>	200			
91)	28 200	7			EACH	147)
	_					
					40.0	MP-7.401-A
5	i		1			
00			۴ (		;	•
	-					146)
				DEMOLITION AND SITE	14.0	MP-7.312-E
	· ·					
3	2/0/	3				
9	でつりつ		9,0		N. C	145)
					733.0	MP-7.308A
CIS	DOLLARS	CITS	DOLLARS			
	(IN FIGURES)		(IN FIGURES)		OUANTITIES	(SEQUENCE NO.)
TS	EXTENDED AMOUNT		UNIT PRICES	CLASSIFICATIONS	ENGINEER'S	ITEM NUMBER
	COL. 5		COL. 4		COL. 2	COF. 1

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

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COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		7. 805 0			00/1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			00 1/9 51.			,	366 078	
	m 🙃	CIS		20			\$	<u>3   </u>			00	<u> </u>			51	
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS		n				201 :			1/6 00					
<u>cor. 3</u>	CLASSIFICATIONS		HERBACEOUS PLANTS (PLUGS)			TOPSOIL				RESTORATION SPECIALIST			EROSION CONTROL MAT			
COL. 2	ESTIMATE OF		2,230.0	EACH		63.0	C.Y.			126.0	HRS	····	18,900.0	S. H.		
COL. 1	ITEM NOMBER (SEQUENCE NO.)		BMP-7.401-J	(149)		BMP-7.403	(150)			BMP-7.404-A	(151)		BMP-7.407-A	(152)		

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

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COL. 1	COL. 2	cor. 3	COL. 4	COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMMEE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	<b>~</b>
			DOLLARS	DOLLARS	CIS
BMP-7.417	2,100.0	DEBRIS EXCLUSION FENCE			
(153)	н н		9	,	`
			2077	007 77 8	<u></u>
BMP-7.420 CR	5.0	CHUTE RESTORATION			1
(154)	EACH		900 00	6 500 6	8
BMP-7.420 GR	2.0	GUTTER RESTORATION			I
(155)	EACH		00 00 / /	2 200	8
					•
BMP-7.504A	452.0	SILT FENCE			ľ
(156)	ਸ ਜ਼		00	2,260	00
				ا	.]
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NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN

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Project ID HWQ985

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	UNTS S)	CIS	6	6	<del>                                     </del>	<u>-</u> -
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	025/8	\$ 13,500	* 45,000	* 40% 80C CO
		CTS	31	00	31	3
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	8 259	00)	651 3	QS .
<u>cor. 3</u>	CLASSIFICATIONS		PORTABLE SEDIMENT TANK	STORM DRAIN INLET PROTECTION	BOULDERS	BLOCK CURB
COL. 2	ESTIMATE OF OUNTITIES		2.0 EACH	135.0 EACH	300.0 EACH	8,096.0 L.F.
COL. 1	ITEM NOMBER (SEQUENCE NO.)		BMP-7.510 (157)	BMP-7.511 (158)	BMP-7.602 (159)	BMP-7.614A (160)

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

Contract PIN Project ID

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COL. 1	COL. 2	COL. 3	COL. 4	COL. 5	
ITEM NUMBER (SEQUENCE NO.)	ENGINEER'S ESTIMMTE OF OUANTITIES	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	S.
			DOLLARS	DOLLARS	STS
HW-900H	1.0	ALLOWANCE FOR CITY WORK ACCELERATION			
	o) Iu	PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 50,000.00	\$ 50,000.00	20,000.00	8
-					
HW-908 (162)	1.0 FF .8.	ALLOWANCE FOR EXTRA WORK DUE TO ARCHAEOLOGICAL DISCOVERIES PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 50,000.00	\$ 50,000 00	\$ 50,000,00	00
UIL-6.01.1 (163)	2.0 EACH	GAS MAIN CROSSING SEWER UP TO 24" IN DIAMETER (86.01)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8	- (
		Unit price bid shall not be less than: \$ 1,040.00	3/0/0/2	20 7	3
UTL-6.01.9 (164)	1.0 EACH	GAS MAIN CROSSING WATER MAIN UP TO 20" IN DIAMETER (S6.01)			
		Unit price bid shall not be less than: \$ 485.00	\$ 485 00	* KRS	00

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

Contract PIN 8! Project ID HW

PIN 8502013HW0061C
D HWQ985

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

Contract PIN 85
Project ID HW

N 8502013HW0061C HWQ985

Contract PIN 8

N 8502013HW0061C HWQ985

> Project ID NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN

	<u> </u>	CTS	Kg		80	38
	COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	37,184,069		,287 000 03	\$ 7 471,068 38
	COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	SUB-TOTAL:		Æ SUB-TOTAL	TOTAL BID PRICE:
	COL. 3 CLASSIFICATIONS			MOBILIZATION	PRICE BID SHALL NOT EXCRED 4% OF THE ABOVE SUB-TOTAL PRICE.	
	COL. 2 ENGINEER'S ESTIMATE OF OUANTITIES			1.0	LUMP SUM	
	COL. 1 ITEM NUMBER (SEQUENCE NO.)			6.39 A	(171)	

PLEASE BE SURE A LEGIBLE BID IS ENTERED FOR EACH ITEM.

THE BIDDER SHALL INSERT THE TOTAL BID PRICE IN THE BID FORM ON PAGE C-4 OF THIS BID BOOKLET.

### **BID FORM**

## PROJECT ID. HWO985

<u>TOTAL BID PRICE</u>: In the space provided below, the Bidder shall indicate its Total Bid Price in figures. Such Total Bid Price is set forth on the final page of the Bid Schedule.

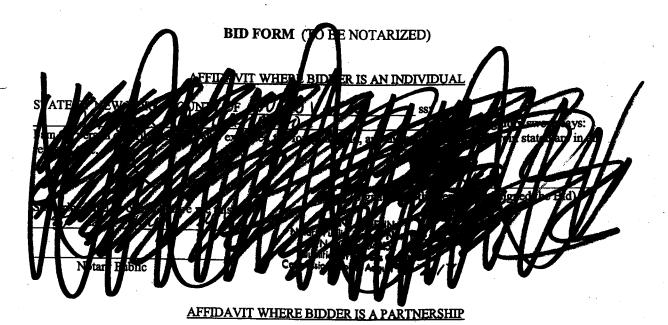
TOTAL BID PRICE: (a/k/a BID PROPOSAL)

57, 471,069.38 ED 7/16/14

#### **BIDDER'S SIGNATURE AND AFFIDAVIT**

Bidder: CAC	DUD TRUC			
Ву:	$\bigwedge$			
	Signature of Partner or c	orporate efficer)		
Attest: (Corporate Seal)	\$	Secretary of Corpor	ate Bidder	

Affidavit on the following page should be subscribed and sworn to before a Notary Public



STATE OF NEW YORK, COUNTY OF being duly sworn says: I am a member of the firm described in and which executed the foregoing bid. I subscribed the name of the firm thereto on behalf of the firm, and the several matters therein stated are in all respects true. (Signature of Partner who signed the Bid) Subscribed and sworn to before me this day of **Notary Public** being duly sworn says: executed the foregoing bid. I reside at I have knowledge of the several matters therein stated, and they are in all respects true. Signature of Corporate Officer who signed the Bid) otary Public Qualified in Queens County Commission Expires August 14, 2017

## BID BOND 1 FORM OF BID BOND

KNOW ALL N	MEN BY THESE PRESENTS	. That we.		
C.A.C. Industrie		-		
54-08 Vernon B	lvd., Long Island City, NY 1110	)1 <u> </u>		
hereinafter refe	erred to as the "Principal", and	I		
Federal Insurar				
15 Mountain Vie	w Road , Warren, NJ 07059			
hereinafter referred to as the	erred to as the "Surety" are he ne "CITY", or to its successor	ld and firmly bounds and assigns in the	i to THE CITY OF No penal sum of	IEW YORK, hereinaster
Ten Percent of A	Mount Bid			
and truly to be	), Dollars lawful money of the made, we, and each of us, bin and severally, firmly by these	d ourselves, our he	r the payment of which irs, executors, admin	ch said sum of money well istrators, successors and
Whereas, made a part her	the Principal is about to subreof, to enter into a contract in	nit (or has submitte writing for HWQ	ed) to the City the acc 985 Roadway Improv	companying proposal, hereby
	ue to West Drive. Borough of			
Proposal withou	HEREFORE, the conditions out the consent of the City for ance of the Principal's Propos	a period of forty-fir	ve (45) days after the	cipal shall not withdraw said opening of bids and in the
ovent or accept	ance of the Finicipals Propos	at by the City, if th	e Principal shall:	
(a) all the executed the proposal as	counterparts of the Contract	otification by the C in the form set for	ity, execute in quadru h in the Contract Doo	aplicate and deliver to the City cuments, in accordance with
(b) faithful perform City and shall t	Furnish a performance bond nance and proper fulfullment se executed by good and suffi	of such Contract, v	ent bond, as may be r hich bonds shall be s	required by the City, for the satisfactory in all respects to the
(c) Information for then this obliga	In all respects perform the ag Bidders, bound herewith and tion shall be null and void; ot	made a part hereo	f, or if the City shall i	aid Proposal as provided in the reject the aforesaid Proposal, et.

.

#### BID BOND 2

In the event that the Proposal of the Principal shall be accepted and the Contract be awarded to him the Surety hereunder agrees subject only to the payment by the Principal of the premium therefore, if requested by the City, to write the aforementioned performance and payment bonds in the form set forth in the Contract Documents.

It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

There shall be no liability under this bond if, in the event of the acceptance of the Principal's Proposal by the City, either a performance bond or payment bond, or both, shall not be required by the City on or before the 30th day after the date on which the City signs the Contract.

The surety, for the value received, hereby stipulates and agrees that the obligations of the Surety and its bond shall in no way be impaired or affected by any postponements of the date upon which the City will receive or open bids, or by any extensions of time within which the City may accept the Principal's Proposal, or by any waiver by the City of any of the requirements of the Information for Bidders, and the Surety hereby waives notice of any such postponements, extensions, or waivers.

their proper officers the _	26th	_day of	June		•	
(Seal)			C.A.C. Ind	lus <b>t</b> ries, Inc.		(L.S.)
				Principal		
		Ву:		/X/		
/O1\				V		
(Seal)			<u>-ederal Ins</u>	surance Comp	any	
	MSURANCE			Surety	1 1	
	ž H	By:	XII	sam X	upoli!	
		3	Susan Lup	oski	U Attorney-in-	Fact

## BID BOND 3

	ACKNOWLEDGEMENT C	F PRINCIPAL, IF A CORPORATION
State of New	You County of Ween	S
On this $-15$		ss:
VI WIS TO	day of Sulf	, <u>W/9</u> , before me personally came
MICHAE	to me known, who,	being by me duly sworn, did depose and say that he
resides at	75 ( ) 10 5 6	ye ny jours
that he is the	MESIOENT OF CH	CTUDOSINIG TIUC
		going instrument; that he knows the seal of said
		ent is such seal; that it was so affixed by order of the
directors of said co	rporation, and that he signed his name	e thereto by like order.
	DIANE C. DERIN	
	Notary Public, State of New York	
	No. 01DE5048152 Qualified in Quaens County	
	Qualified in Queens County (1)	Ilano Officia
	· · · · · · · · · · · · · · · · · · ·	Notary Public
	1 ATPL TAUFOU DELL AND	
	ACKNOWLEDGEMENT (	OF PRINCIPAL, IF A PARTNERSHIP
Ct. t C		
State of	County of	\$5:
On this	day of	before me personally appeared
		known to me to be one of the members of the firm of
		n and who executed the foregoing instrument, and he
acknowledged to n	ne that he executed the same as and fo	r the act and deed of said firm.
		Notary Public
		Notary Fuoric
	ACVNOWIEDGEMENT	OF PRINCIPAL, IF AN INDIVIDUAL
	ACKNOWLEDGEMENT	OF FRINCIPAL, IF AN INDIVIDOAD
State of	County of	ss:
On this	day of	
On this	to ma known and	,, before me personally appeared known to me to be the person described in and who
evenuted the force	oing instrument and acknowledged th	Allowit to the to be the person described in and who
executed the lotes	omg instrument and acknowledged th	at the executed the same.
		Notary Public
		140ml Taons

AFFIX ACKNOWLEDGEMENTS AND JUSTIFICATION OF SURETIES



Chubb Suretv

**POWER** OF **ATTORNEY** 

Federal Insurance Company **Vigilant Insurance Company Pacific Indemnity Company** 

Attn: Surety Department 15 Mountain View Road Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Thomas Bean, George O. Brewster, Colette R. Chisholm, Susan Lupski, Gerard S. Macholz, Camille Maitland, Robert T. Pearson and Rita Sagistano of Uniondale, New York

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested

these presents and affixed their corporate seals on this 27th day of March, 2013.

Chloros, Assistant Secretary







Devid B. Norris, Jr., Vice Preside







STATE OF NEW JERSEY

County of Somerset

On this 27th day of March, 2013 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By- Laws and in deponent's presence.

Notarial Seal



KATHERINE J. ADELAAK NOTARY PUBLIC OF NEW JERSEY No 2316685 Commission Expres July 16, 2014

CERTIFICATION

Notary Public

Extract from the By- Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY.

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, 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 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 upon the Company with respect to any bond or undertaking to which it is attached."

1, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- the foregoing extract of the By- Laws of the Companies is true and correct,
- the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and
- the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this

JUN 2 6 2014







Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

## ACKNOWLEDGMENT OF SURETY COMPANY

STATE OF New York } COUNTY OF Nassau }	SS
On this JUNE 26, 2014  to me know, who, being by me NASSAU COUNTY State of NEDERAL INSURANCE COMPANY executed the above instrument; seal affixed to said instrument is the Board of Directors of said co like order; and the affiant did fur of the State of New York, has, pure of New York, issued to FEDER certificate of qualification evisufficiency under any law of the	duly sworn, did depose and say; that he/she resides in EWYORK, that he/she is the Attorney-In-Fact of the that he/she knows the seal of said corporation; that the such corporate seal; that is was so affixed by order of reporation; and that he/she signed his/her name thereto by ther depose and say that the Superintendent of Insurance arsuant to Section 1111 of the Insurance Law of the State ALINSURANCE COMPANY

GRACE ACKERSON
Notary Public, State of New York
Nassau County
Llc. #01AC6111590
Term Expires June 14, 2016

Notary Public

NY acknowledgment

## FEDERAL INSURANCE COMPANY

## STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

**DECEMBER 31, 2013** 

(in thousands of dollars)

LIABILITIES AND **ASSETS** SURPLUS TO POLICYHOLDERS Cash and Short Term Investments......\$ 352,393 Outstanding Losses and Loss Expenses ..... \$ 12,129,450 United States Government, State and Unearned Premiums..... 3,504,583 Municipal Bonds..... 9,295,185 Ceded Reinsurance Premiums Payable...... 338,026 Other Bonds..... 5,535,360 Provision for Reinsurance ..... 61,351 Stocks..... Other Liabilities..... 1,000,938 986,628 Other Invested Assets..... 1,452,598 TOTAL INVESTMENTS ..... 17,636,474 TOTAL LIABILITIES ..... Investments in Affiliates: Chubb Investment Holdings, Inc. 3,364,996 Capital Stock..... 20,980 Pacific Indemnity Company..... 2,771,422 Paid-In Surplus..... 3,106,809 Executive Risk Indemnity Inc..... 1,218,625 Unassigned Funds ..... 11,613,523 Chubb Insurance Investment Holdings Ltd.... 1,111,941 CC Canada Holdings Ltd..... 629,592 Great Northern Insurance Company ...... 478.838 SURPLUS TO POLICYHOLDERS..... 14,741,312 Chubb Insurance Company of Australia Ltd. 449,419 Chubb European Investment Holdings SLP... 281,312 Vigilant Insurance Company..... 264,883 Other Affiliates ..... 472,259 Premiums Receivable ..... 1,586,676 Other Assets ..... 1,494,913 **TOTAL LIABILITIES AND SURPLUS** TOTAL ADMITTED ASSETS ...... \$ 31,761,350 TO POLICYHOLDERS...... \$ 31,761,350 Investments are valued in accordance with requirements of the National Association of Insurance Commissioners. At December 31, 2013, investments with a carrying value of \$452,687,680 were deposited with government authorities as required by law. State, County & City of New York, - ss: Yvonne Baker, Assistant Secretary of the Federal Insurance Company being duly sworn, deposes and says that the foregoing Statement of Assets, Liabilities and Surplus to Policyholders of said Federal Insurance Company on December 31, 2013 is true and correct and is a true abstract of the Annual Statement of said Company as filed with the Secretary of the Treasury of the United States for the 12 months ending December 31, 2013. Subscribed and sworn to before me this March 11, 2014. Assistant Secretary

JEANETTE SHIPSEY

\_ Notary Public, State of New York
No. 02SH5074142
Qualified in Nassau County
Commission Expires March 10, 2015

#### M/WBE PROGRAM

#### M/WBE UTILIZATION PLAN

<u>M/WBE Program Requirements</u>: The requirements for the M/WBE Program are set forth on the following pages of this Bid Booklet, in the section entitled "Notice to All Prospective Contractors".

Schedule B: M/WBE Utilization Plan: Schedule B: M/WBE Utilization Plan for this Contract is set forth in this Bid Booklet on the pages following the section entitled "Notice to All Prospective Contractors". The M/WBE Utilization Plan (Part I) indicates whether Participation Goals have been established for this Contract. If Participation Goals have been established for this Contract, the bidder must submit an M/WBE Utilization Plan (Part II) with its bid.

<u>Waiver</u>: The bidder may seek a full or partial pre-award waiver of the Participation Goals in accordance with the "Notice to All Prospective Contractors" (See Part A, Section 10). The bidder's request for a waiver must be submitted at least seven (7) calendar days prior to the bid date. Waiver requests submitted after the deadline will not be considered. The form for requesting a waiver of the Participation Goals is set forth in the M/WBE Utilization Plan (Part III).

Rejection of the Bid: The bidder must complete Schedule B: M/WBE Utilization Plan (Part II) set forth in this Bid Booklet on the pages following the section entitled "Notice to All Prospective Contractors". A Schedule B submitted by the bidder 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 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 Required Affirmations, the bidder 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 is non-responsive. Receipt of notification is defined as the date notice is emailed or faxed (if the bidder has provided an email address or fax number), or no later than five (5) calendar days from the date of mailing or upon delivery, if delivered.

<u>Impact on LBE Requirements</u>: If Participation Goals have been established for the participation of M/WBEs, the contractor is not required to comply with the Locally Based Enterprise Program ("LBE"). The LBE Program is set forth in Article 67 of the Contract.

#### NOTICE TO ALL PROSPECTIVE CONTRACTORS

# PARTICIPATION BY MINORITY-OWNED AND WOMEN-OWNED BUSINESS ENTERPRISES IN CITY PROCUREMENT

#### 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

## <u>PARTICIPATION GOALS FOR CONSTRUCTION, STANDARD</u> <u>AND PROFESSIONAL SERVICES CONTRACTS OR TASK ORDERS</u>

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 <a href="mailto:poped@ddc.nyc.gov">poped@ddc.nyc.gov</a> 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, 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;

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- (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.

Tax ID		APT E-	
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SCHEDULE B – M/WBE Utilization Plan Part I: M/WBE Participation Goals

Part I to be completed by contracting agency

Contract Overview								
APT E- Pin #	85014B0067		FMS Pr	oject ID	)#: _H\	VQ985		
Project Title/ Agency PIN #	ROADWAY IMPROVEN	MENTS II	N SHORE R	OAD / 8	502013	HW006	31C	
Bid/Proposal Response Date	JULY 2, 2014							
Contracting Agency	Department of Design a	nd Cons	truction					
Agency Address	30-30 Thomson Ave.	City	Long Island	d City	State	NY	Zip Code	11101
Contact Person	Jessica Lavides		Title	MWBE	E Liaiso	n & Co	mpliance An	alvst
Telephone #	(718) 391-1065		Email	<u>Lavide</u>	sJe@d	dc.nyc	gov	
Project Description (att	och additional pages if geograph	n 4						

### **ROADWAY IMPROVEMENTS IN**

### **SHORE ROAD**

### FROM 36TH AVENUE TO WEST DRIVE

### INCLUDING SEWER AND WATER MAIN WORK

### Together With All Work Incidental Thereto BOROUGH OF QUEENS CITY OF NEW YORK

### M/WBE Participation Goals for Services

Enter the percentage amount for each group or for an unspecified goal. Please note that there are no goals for Asian Americans in Professional Services.

Prime Contract Industry: Construction

Group	Percentage	
<u>Unspecified*</u>	8 %	
or		
Black American	UNSPECIFIED*	
Hispanic American	UNSPECIFIED*	
Asian American	UNSPECIFIED*	
Women	UNSPECIFIED*	
tal Participation Goals	8 %	Line 1

<sup>\*</sup>Note: For this procurement, individual ethnicity and gender goals are not specified. The Total Participation Goal for construction contracts may be met by using either Black-American, Hispanic-American, Asian American, or Women certified firms or any combination of such firms.

Part II to be completed by the bidder/pro Please note: For Non-M/WBE Prime C entire contract, you must obtain a FULL submitting it to the contracting agency granted, it must be included with your b bid or proposal.	ontractors who will waiver by completi pursuant to the Not	ng t ice :	he Waiver Application of the Prospective Contract	on pa	iges 17 and 18 and timel Once a FULL WAIVER i
Section I: Prime Contractor Contact Infor	mation			÷ 11.	
Tax ID#			_ FMS Vendor ID #		
Business Name			Contact Person		
Address					
Telephone #	Email				
Section II: M/WBE Utilization Goal Calcul PRIME CONTRACTOR ADOPTING AG	ENCY M/WBE PAR			ıbsed	etion.
For Prime Contractors (including Qualified Joint Ventures and M/WBE firms) adopting Agency M/WBE Participation Goals.	Total Bid/Proposal Value		Agency Total Participation Goals (Line 1, Page 13)		Calculated M/WBE Participation Amount
Calculate the total dollar value of your total bid that you agree will be awarded to M/WBE subcontractors for services and/or credited to an M/WBE prime contractor or Qualified Joint Venture.					
Please review the Notice to Prospective Contractors for more information on how to obtain credit for M/WBE participation.	\$	X		=	\$ Line 2
PRIME CONTRACTOR OBTAINED PARTICIPATION GOALS	RTIAL WAIVER AP		OVAL: ADOPTING MO	DDIF	
☐ For Prime Contractors (including Qualified Joint Ventures and M/WBE firms) adopting Modified M/WBE	Total Bid/Proposal Value		Adjusted Participation Goal (From Partial Waiver)		Calculated M/WBE Participation Amount
Participation Goals.  Calculate the total dollar value of your total bid that you agree will be awarded to M/WBE subcontractors for services and/or credited to an M/WBE prime contractor or Qualified Joint Venture.					
Please review the Notice to Prospective Contractors for more information on how to obtain credit for M/WBE participation.	\$	x		=	\$ Line 3

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SCHEDULE B - Part II: M/WBE Participation Plan

Intract the value of which is at least the amount located on Lines 2 or 3 above, as applicable. The value of any ork subcontracted to non-M/WBE firms will not be credited towards fulfillment of M/WBE Participation Goals. Lease check all that apply to Prime Contractor:    MBE	I ax ID #:	PIN #:	—
As a Qualified Joint Venture with an MWBE partner, in which the value of the MWBE partner's participation of/or the value of any work subcontracted to other MWBE firms is at least the amount located on Lines 2 or 3 bove, as applicable. The value of any work subcontracted to non MWBE firms will not be credited towards diffillment of MWBE Participation Goals.  As a non MWBE Prime Contractor that will enter into subcontracts with MWBE firms the value of which is at ast the amount located on Lines 2 or 3 above, as applicable.  Section IV: General Contract Information  What is the expected percentage of the total contract dollar value that you expect to award in subcontracts for services, regardless of MWBE status? %	eview the Notice to Prospect	ive Contractors for more information on how to obtain credit for M/WBE	
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Section V: Vendor Certification ar	nd Required Affirmations
pertinent provisions of Section 6- 129"), and the rules promulgated 2) affirm that the information sup 3) agree, if awarded this Contract the pertinent provisions of Section deemed to be material terms of the 4) agree and affirm that it is a managed value of the M/WBE Participation or such goals are modified by the 5) agree and affirm, if awarded the M/WBE Participation Goals, or If	oplied in support of this M/WBE Utilization Plan is true and correct; ct, to comply with the M/WBE participation requirements of this Contract, on 6-129, and the rules promulgated thereunder, all of which shall be this Contract; atterial term of this Contract that the Vendor will award the total dollar in Goals to certified MBEs and/or WBEs, unless a full waiver is obtained
Signature	Date

APT E-

**Print Name** 

### SCHEDULE B – PART III – REQUEST FOR WAIVER OF M/WBE PARTICIPATION REQUIREMENT

T- ID 4	Contract Overview				
Tax ID #	FMS	S Vendor ID #			
Business Name					
Contact Name	Telephone #	Email			
Type of Procuremen	· —	Bid/Response Due Date			
APT E-PIN # (for this procurement):		Contracting Agency:			
M/WBE Participa %	tion Goals as described in bid/solicitation do  Agency M/WBE Participation Goal	ocuments			
Proposed M/WBE Pa	articipation Goal as anticipated by vendor seeki	ing walver			
<b>%</b>	of the total contract value anticipated <u>in good</u> for services and/or credited to an M/WBE Prin	I faith by the bidder/proposer to be subcontracted ne Contractor or Qualified Joint Venture.			
Basis for Waiver R	equest: Check appropriate box & explain in d	etail below (attach additional pages if needed)			
☐ Vendor does not self with its own en		and good faith intention to perform all such work			
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(Complete ONLY if vendor has performed fewer than 3 New York City contracts.) TYPE OF Contract DATE COMPLETED Manager at entity that hired vendor (Name/Phone No./Email) **Total Contract Total Amount** Amount \$ Subcontracted \$ Type of Work Subcontracted **TYPE OF Contract** DATE COMPLETED AGENCY/ENTITY Manager at agency/entity that hired vendor (Name/Phone No./Email) **Total Contract Total Amount** Amount \$ Subcontracted \$ Item of Work Item of Work Subcontracted and Item of Work Subcontracted and Value of Subcontracted and Value of subcontract Value of subcontract subcontract **TYPE OF Contract** AGENCY/ENTITY DATE COMPLETED Manager at entity that hired vendor (Name/Phone No./Email) **Total Contract Total Amount** Amount \$ Subcontracted \$ Item of Work Item of Work Subcontracted and Item of Work Subcontracted and Value of Subcontracted and Value of subcontract subcontract Value of subcontract VENDOR CERTIFICATION: I hereby affirm that the information supplied in support of this waiver request is true and correct, and that this request is made in good faith. Signature: Date: Print Name: Title: Shaded area below is for agency completion only AGENCY CHIEF CONTRACTING OFFICER APPROVAL Signature: CITY CHIEF PROCUREMENT OFFICER APPROVAL Waiver Determination Full Waiver Approved: Waiver Denied: Partial Waiver Approved: Revised Participation Goal:

List 3 most recent contracts performed for other entities. Include information for each subcontract awarded in

performance of such contracts. Add more pages if necessary.

### APPRENTICESHIP PROGRAM REQUIREMENTS

Bidders are advised that the Apprenticeship Program Requirements set forth below apply to each contract for which a check mark is indicated before the word "Yes". Compliance with these requirements will be determined solely by the City.

$\sqrt{}$	YES	]	NC

### (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 one 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 programs have three years of current, successful experience in providing career opportunities.

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 set forth on the following page of the Bid Booklet.

### APPRENTICESHIP PROGRAM QUESTIONNAIRE

### PROJECT ID: <u>HWQ985</u>

The bidder must submit a completed and signed Apprenticeship Program Questionnaire.

	Name of Bidder:		_	
1.	Does the bidder have an Apprentic [Note: Participation may be by eith	eship Program appro ner direct sponsorshi	opriate for the type are p or through collective	nd scope of work to be performed? we bargaining agreement(s).]
		YES	NO	
2.	Has the bidder's Apprenticeship Commissioner of Labor?	Program been regi	istered with, and ap	proved by, the New York State
	-	YES	NO	
3.	Has the bidder's Apprenticeship opportunities?	Program had three	years of successfu	l experience in providing career
		YES	NO	
exper	answer to Question #3 is "Yes", ience the Apprenticeship Program h if necessary.	as had in providing	career opportunities.	The bidder may attach additional
		·	·	·
Bidde	r:			
By:	(Signature of Partner or	Cornerate Officer)	Title:	
Date:	(Signature of Faither of	——————————————————————————————————————		
CITY	OF NEW YORK		20	PID BOOKI ET

DECEMBER 2013

DEPARTMENT OF DESIGN AND CONSTRUCTION

Project ID.	
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### **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.

1. Bidder Information:		
Company Name:		· · · · · · · · · · · · · · · · · · ·
DDC Project Number:		·
Company Size:Ten (10)	employees or less	
Greater t	han ten (10) employees	
Company has previously worked for DDC	YES	NO
2. Type(s) of Construction Work		
TYPE OF WORK General Building Construction Residential Building Construction Nonresidential Building Construction Heavy Construction, except building Highway and Street Construction Heavy Construction, except highways Plumbing, Heating, HVAC Painting and Paper Hanging Electrical Work Masonry, Stonework and Plastering Carpentry and Floor Work Roofing, Siding, and Sheet Metal Concrete Work Specialty Trade Contracting Asbestos Abatement Other (specify)	LAST 3 YEARS	THIS PROJECT

### 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 contractor may obtain its EMR by contacting its insurance broker or the NCCI. If the contractor cannot obtain its EMR, it must submit a written explanation as to why.

				Project ID.
		its <u>Intrastate and Interstate EM</u> e years of experience, the EM		
YEAR		INTRASTATE RATE	· ·	INTERSTATE RATE
			_	
contractor must at	ach, to th	estate EMR for any of the pa is questionnaire, a written e to correct the situation result	xplanation for	the rating and identify wha
4. OSHA Informat	ion:			
YES1		ntractor has received a willful partment of Buildings (NYCD		d by OSHA or New York City last three years.
YES1		stractor has had an incident red, fatality, or hospitalization of		
employees, on a year	rly basis to s".  This fo	Health Act (OSHA) of 1970 recomplete and maintain on finance is commonly referred to a	le the form enti	itled "Log of Work-related
The OSHA 300 Log employees.	must be s	ubmitted for the last three yea	rs for contracto	ors with more than ten
The Contractor must payroll records for the		he total number of hours workee years.	ced by its empl	oyees, as reflected in
past three years. The For each given year illnesses reported of	The Incid or, the to on the O	ent Rate is calculated in acc tal number of incidents is t	cordance with the total num 00 hours repr	es (the Incident Rate) for the the formula set forth below ber of non-fatal injuries and resents the equivalent of 10
Incident Rate =		Total Number of H	ber of Incidents ours Worked b	
YEAR	ТОТА	L NUMBERS OF HOURS WOR EMPLOYEES	RKED BY	INCIDENT RATE
	-			•
	<del></del>			· · · · · · · · · · · · · · · · · · ·

Project	ID.	

If the 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 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	Contractor previously audited by the DDC Office of Site Safety.
		DDC Project Number(s):,
YES	NO	Accident on previous DDC Project(s).
		DDC Project Number(s):
YES	NO	Fatality or Life-altering Injury on DDC Project(s) within the last three years. [Examples of a life-altering injury include loss of limb, loss of a sense (e.g., sight, hearing), or loss of neurological function].
,		DDC Project Number(s):,
Date: _		By: (Signature of Owner, Partner, Corporate Officer)
		Title:

(NO TEXT ON THIS PAGE)

### **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, such information must be submitted by the bidder 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 facsimile or in writing and will specify the types of information must be submitted. The types of information the bidder may be required to submit are described below. 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 on pages 26 through 28 of this Bid Booklet. The Project Reference Form consists of 3 parts: (1) Similar 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.

### PROJECT REFERENCES – SIMILAR CONTRACTS COMPLETED BY THE BIDDER Ą.

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
	t t				

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

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BID BOOKLET DECEMBER 2013

# PROJECT REFERENCES – CONTRACTS CURRENTLY UNDER CONSTRUCTION BY THE BIDDER В.

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

Architect/En gineer Reference & Tel. No. if different from owner		-	·	
Owner Reference & Tel. No.				
Date Scheduled to Complete				
Uncompleted Portion (\$000)				
Subcontracted to Others (\$000)				
Contract Amount (\$000)				·
Contract Type				
Project & Location				

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BID BOOKLET DECEMBER 2013

## PROJECT REFERENCES – PENDING CONTRACTS NOT YET STARTED BY THE BIDDER ن

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

Г	<del></del>			1	
Architect/Engineer Reference & Tel. No. if different from owner					
Owner Reference & Tel. No.					
Date Scheduled to Start					
Contract Amount (\$000)					
Contract Type					
Project & Location					

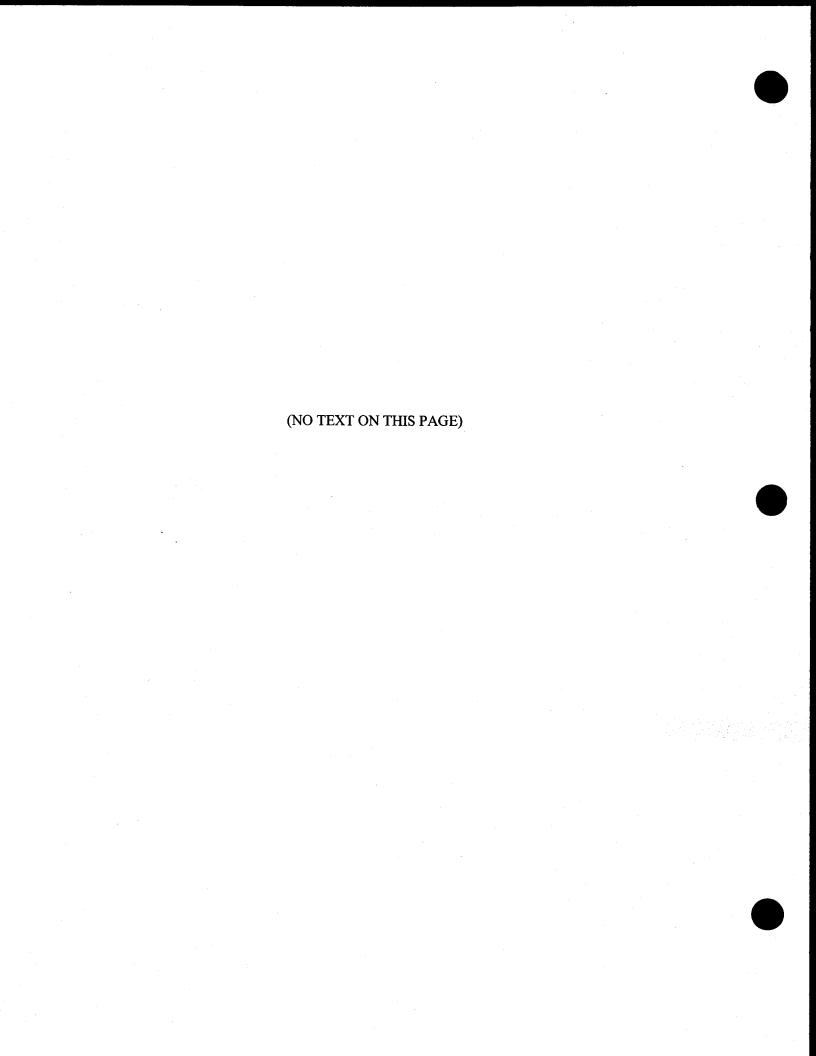
CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION

BID BOOKLET DECEMBER 2013 (NO TEXT ON THIS PAGE)

### OFFICE OF THE MAYOR BUREAU OF LABOR SERVICES CONTRACT CERTIFICATE

To be completed if the contract is less than \$1,000,000

Contractor:	
Address:	
Telephone Number:	
Proposed Contract Amount:	
	ntract:
Names of Subcontractors in the amount of state indicating that trades will be subcont	of 750,000 or more on this contract (if not known at this time, so tracted):
I, (fill in name of person signing) hereby affirm that I am authorized by the proposed contract with the above-named of the state of th	above-named contractor to certify that said contractor's owner or city agency is less than \$1,000,000. This affirmation is r No. 50 (1980) as amended and its implementing regulations.
Date	Signature
SUBMITTED HEREWITH MAY RESULT THE CITY AND THE BIDDER OR CONT	ALSIFICATION OF ANY DATA OR INFORMATION T IN THE TERMINATION OF ANY CONTRACT BETWEEN FRACTOR AND BAR THE BIDDER OR CONTRACTOR CONTRACT FOR A PERIOD OF UP TO THREE YEARS. IN CRIMINAL PROSECUTION.



### **Certificate of No Change Form**



- Please submit two completed forms. Copies will not be accepted.
- Please send both copies to the agency that requested it, unless you are advised to send it directly to the Mayor's Office of Contract Services (MOCS).
- A materially false statement willfully or fraudulently made in connection with this certification, and/or the failure to conduct appropriate due diligence in verifying the information that is the subject of this certification, may result in rendering the submitting entity non-responsible for the purpose of contract award.

purpose of contract award.
<ul> <li>A materially false statement willfully or fraudulently made in connection with this certification may subject the person making the false statement to criminal charges</li> </ul>
I, MI CHACL A CANKSO, being duly sworn, state that I have read Enter Your Name
and understand all the items contained in the vendor questionnaire and any submission of change as identified on page one of this form and certify that as of this date, these items have not changed. I further certify that, to the best of my knowledge, information and belief, those answers are full, complete, and accurate; and that, to the best of my knowledge, information, and belief, those answers continue to be full, complete, and accurate.
In addition, I further certify on behalf of the submitting vendor that the information contained in the principal questionnaire(s) and any submission of change identified on page two of this form have not changed and have been verified and continue, to the best of my knowledge, to be full, complete and accurate
I understand that the City of New York will rely on the information supplied in this certification as additional inducement to enter into a contract with the submitting entity.
Vendor Questionnaire This section is required.  This refers to the vendor questionnaire(s) submitted for the vendor doing business with the City.  Name of Submitting Entity:
Vendor's Address: SYD8 VENUCN BLVD LICHY 1110/
Vendor's EIN or TIN: 11-3082726 Requesting Agency:
Are you submitting this Certification as a parent? (Please circle one) Yes No
Signature date on the last full vendor questionnaire signed for the submitting vendor: 19/23/12
Signature date on change submission for the submitting vendor: 7/29//3

### **Principal Questionnaire**

This section refers to the most recent principal questionnaire submissions.



Principal Name	Date of signatul on last full Princi Questionnaire	pal Date(s) of signature on
1 MicHael A Cap	1880	7/29/13
2 JAMES EMC	Morney 7/	19/13
3 JOHN M LAB		29/3
4	<u> </u>	V
5		
6		
Check if additional changes were submitted	and attach a document	t with the date of additional submissions.
Certification This section is require This form must be signed and notarized. P  Certified By:  M. CHAEL A OP  Name (Print)  Title  A O TO US	lease complete this to	wice. Copies will not be accepted.
Name of Submitting Entity  1 M		6/24/14
Signature		Date
Notarized By:  Motory Bublic	Overs	01862048125
Notary Public  Sworn to before me on:  Date	County License Issu	DIANE C. DERIN Notary Public, State of New York No. 01 DE5048152 Gualified in Queens County Commission Expires August 14, 281

### IRAN DIVESTMENT ACT COMPLIANCE RIDER

### FOR NEW YORK CITY CONTRACTORS

The Iran Divestment Act of 2012, effective as of April 12, 2012, is codified at State Finance Law ("SFL") §165-a and General Municipal Law ("GML") §103-g. The Iran Divestment Act, with certain exceptions, prohibits municipalities, including the City, from entering into contracts with persons engaged in investment activities in the energy sector of Iran. Pursuant to the terms set forth in SFL §165-a and GML §103-g, a person engages in investment activities in the energy sector of Iran if:

- (a) The person provides goods or services of twenty million dollars or more in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; or
- (b) The person is a financial institution that extends twenty million dollars or more in credit to another person, for forty-five days or more, if that person will use the credit to provide goods or services in the energy sector in Iran and is identified on a list created pursuant to paragraph (b) of subdivision three of Section 165-a of the State Finance Law and maintained by the Commissioner of the Office of General Services.

A bid or proposal shall not be considered for award nor shall any award be made where the bidder or proposer fails to submit a signed and verified bidder's certification.

Each bidder or proposer must certify that it is not on the list of entities engaged in investment activities in Iran created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the State Finance Law. In any case where the bidder or proposer cannot certify that they are not on such list, the bidder or proposer shall so state and shall furnish with the bid or proposal a signed statement which sets forth in detail the reasons why such statement cannot be made. The City of New York may award a bid to a bidder who cannot make the certification on a case by case basis if:

- (1) The investment activities in Iran were made before the effective date of this section (i.e., April 12, 2012), the investment activities in Iran have not been expanded or renewed after the effective date of this section and the person has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran: or
- (2) The City makes a determination that the goods or services are necessary for the City to perform its functions and that, absent such an exemption, the City would be unable to obtain the goods or services for which the contract is offered. Such determination shall be made in writing and shall be a public document.

### BIDDER'S CERTIFICATION OF COMPLIANCE WITH <u>IRAN DIVESTMENT ACT</u>

Pursuant to General Municipal Law §103-g, which generally prohibits the City from entering into contracts with persons engaged in investment activities in the energy sector of Iran, the bidder/proposer submits the following certification:

[Please Check One]

BIDDER'S CERTIFICATION	
behalf of any bidder/proposer certifies as to its own organi knowledge and belief, that ea	proposal, each bidder/proposer and each person signing or certifies, and in the case of a joint bid each party thereto exation, under penalty of perjury, that to the best of it inch bidder/proposer is not on the list created pursuant to of Section 165-a of the State Finance Law.
on the list created pursuant to p	name and the name of the bidder/proposer does not appear paragraph (b) of subdivision 3 of Section 165-a of the State a signed statement setting forth in detail why I cannot so
Dated:, New York, 20	
	SIGNATURE
	PRINTED NAME
Sworn to before me this day of, 20	TITLE
Notary Public	
Dated:	

THE CITY OF NEW YORK
DEPARTMENT OF SMALL BUSINESS SERVICES
DIVISION OF LABOR SERVICES
CONTRACT COMPLIANCE UNIT
110 WILLIAMS STREET
NEW YORK, NEW YORK 10038

PHONE: (212) 513-6323 FAX: (212) 618-8879

### **CONSTRUCTION**

### **EMPLOYMENT**

### **REPORT**

(NO TEXT ON THIS PAGE)

The City of New York
Department of Small Business Services
Division of Labor Services
Contract Compliance Unit
110 William Street
New York, New York 10038
Phone: (211) 513 - 6233

Phone: (212) 513 - 6323 Fax: (212) 618-8879

### CONSTRUCTION EMPLOYMENT REPORT INSTRUCTIONS

### WHO MUST FILE A CONSTRUCTION EMPLOYMENT REPORT

A Construction Employment Report (ER) must be filed if you meet the following conditions:

CONTRACT FUNDING SOURCE	CONTRACTOR	CONTRACT VALUE	SUBMISSION REQUIREMENT.
Federal/Federally assisted	Prime and subcontractors	\$10,000 or greater	
	Prime contractor	\$1,000,000 or greater	Construction Employment Report
City and state funded		\$750,000 or greater	
	Subcontractor	Less than \$750,000	Less than \$750,000 Certificate (City/State Only)

### Prime Contractor:

- A general contractor or construction manager selected to perform work on a construction project funded (in whole
  or in part) by the federal government with a proposed contract value of \$10,000 or more.
- A general contractor or construction manager selected to perform work on a construction project funded or assisted by the City of New York with a proposed contract value of \$1,000,000 or more.

### Subcontractor:

- A subcontractor selected to perform work on a construction project funded (in whole or in part) by the federal government with a proposed contract value of \$10,000 or more.
- A subcontractor selected to perform work on a construction project funded or assisted by the City of New York with a proposed contract value of \$750,000 or more.
- A subcontractor selected to perform work on a construction project funded or assisted by the City of New York with a proposed contract value of less than \$750,000 must submit a "Less than \$750,000" certificate.

### WHERE TO FILE

Employment Reports must be filed with the City agency awarding the contract. If you are a contractor or subcontractor who will be working for a private developer in receipt of funding or assistance from the City, the ER must be filed with the City agency with jurisdiction over the developer's project.

### **DLS REVIEW PROCESS**

In accordance with Executive Order 50 (EO 50), upon receipt by DLS of a completed ER, DLS conducts a review of the contractor's current employment policies, practices and procedures, as well as perform a statistical analysis of the contractor's workforce, if necessary. The process is as follows:

- 1. Within five (5) business days, DLS will review the ER for completeness and accuracy. If any information is omitted or incorrect, or if necessary documents are not submitted, the submission shall be deemed incomplete and DLS will inform the contractor. The substantive compliance review does not commence until the submission is complete. An incomplete submission will delay the review process and may preclude or interrupt the contract approval.
- If the ER submission is complete, the compliance review will proceed, resulting in one of the following:

**Certificate of Approval** 

The contractor is found to be in compliance with all applicable laws and regulations. The approval is valid for 36 months.

**Continued Approval Certificate** 

The contractor has been issued a Certificate of Approval in the previous 36 months which is good for the applicable contract.

**Conditional Certificate of Compliance** 

The contractor is required to take corrective actions in order to be in compliance with EO 50. The contractor must meet the conditions within one month of the issue of the Conditional Certificate.

**Determination of Nonperformance** 

The contractor has failed to take the required corrective actions stipulated in the Conditional Certificate. A determination of nonperformance may prevent a contractor from receiving an award of a contract.

### HOW TO COMPLETE THE EMPLOYMENT REPORT

### Contents

General Information

Part I: Contractor/Subcontractor Information
Part II: Employment Policies and Practices

Part III: Contract Bid Information and Projected and Current Workforce Forms

Signature Page

### PART I: CONTRACTOR/SUBCONTRACTOR INFORMATION

Questions 7 – 11: Please provide the required contact information for your company. All contracts must have a designated Equal Employment Officer.

Question 12: If you are a subcontractor, you must state the name of the contractor for whom you are providing the construction services.

Question 13: Please provide the number of permanent employees in your company.

Question 14a-g: The Project Identification Number (PIN) and the Contract Registration ID Number (CT#) can be obtained from the City agency. Provide a description of the trade work you will perform on this project and the address where the work will be performed. Subcontractors can obtain this information from the contract they have with the prime contractor.

Questions 15 – 18: If your company has received a valid Certificate of Approval within the past 36 months, been audited by the United States Department of Labor, Office of Federal Contract Compliance Programs (OFCCP), or if your company has submitted an ER for a different contract for which you have not yet received a compliance certificate, then you only need to complete and submit the following:

General Information section

- · Part I Contractor/Subcontractor Information
- Form B Projected Workforce
- Signature Page

If your company is currently waiting for an approval on another contract previously submitted, be certain to identify the date on which you submitted the completed Employment Report, the name of the City contracting agency with which the contract was made, and the name and telephone number of the person to whom the Employment Report was submitted.

If your company was issued a Conditional Certificate of Approval, all required corrective actions must have been taken or DLS will not issue a Continued Certificate.

Question 18:

If the company was audited by the OFCCP, also provide the following:

- · Identify the reviewing OFCCP office by its name and address
- If an unconditional certificate of compliance was issued by the OFCCP, attach a copy of the certificate in lieu of completing Parts II and III;
- Include copies of all corrective actions and documentation of OFCCP's performance; and
- Provide a copy of all stated OFCCP findings.

Question 19:

Question 26:

Please provide a copy of any Collective Bargaining Agreement(s) which is negotiated through an employer trade association on behalf of your organization or any of its affiliates.

### PART II: EMPLOYMENT POLICIES AND PRACTICES

Remember to label all documents with the question number for which they are submitted.

Questions 20a – j: You must respond to the questions as to whether or not your firm has documents reflecting written policies, benefits and procedures. If so, then you must identify by name each document in which the policy(ies), procedure(s) and benefit(s) is located and submit copies of all of the document(s). If your firm follows unwritten practices or procedures, include an explanation of how they operate. Please submit the most current document(s), including all applicable amendments. Label each document and/or unwritten practice according to the question to which it corresponds (e.g. 20a, 20b, etc.)

Questions 21a – h: Inquires about the manner/methods by which you comply with the requirements of the Immigration Reform and Control Act of 1986 (IRCA).

Question 22: Inquires into where and how I-9 forms are maintained and stored.

Questions 23a – e: Inquires into whether or not there is a requirement that an applicant or employee be subjected to a medical examination at any given time. Copes of the medical information questionnaire and instructions must be submitted with the Employment Report.

Question 24: Indicate the existence and location of all statements of your firm's Equal Employment Opportunity policy and attach a copy of each statement.

Question 25: Submit any current Affirmative Action Plan(s) created pursuant to Executive Order 11246.

If your firm or collective bargaining agreement has an internal grievance procedure, indicate this and submit a copy of the policy and procedure. If unwritten, explain its nature and operation. Explain how your firm's procedure addresses EEO complaints.

Question 27: If your employees have used the procedure in the last three (3) years, please submit an explanation in the format indicated below:

1. Number of complaint(s)

2. Nature of the complaint(s)

3. Position(s) of the complainant(s)

4. Was an investigation conducted? disposition y/N

Question 28:

Indicate whether in the past three (3) years complaints have been filed with a court of law or administrative agency, naming your company as a defendant (or respondent) in a complaint alleging violation of any anti-discrimination or affirmative action laws. If yes, develop and submit a log to show, for each administrative/and or judicial action filed, the following information:

Name(s) of complainant(s)	2. Administrative agency or court in which action	3. Nature of the complaint(s)	4. Current status	5. If not pending, the complaint's disposition
	was filed			

Question 29:

Identify each job for which a physical qualification exists. Identify and explain the physical qualification(s) for each stated job. Submit job descriptions for each job and the reasons for the qualifications.

Question 30:

Identify each job for which there exists any qualification related to age, race, color, national origin, sex, creed, disability, marital status, sexual orientation or citizenship status. Identify and explain the specific related qualification for each job stated. Submit job descriptions for each job and the reasons for the qualifications.

### PART III: CONTRACT BID INFORMATION AND PROJECTED AND CURRENT WORKFORCE FORMS

### FORM A: CONTRACT BID INFORMATION - USE OF SUBCONTRACTORS/TRADES

Your projections for the utilization of subcontractors on the proposed contract are to be provided in this section. A chart has been provided for the identification of subcontractors. Information is to be provided to the extent known at the time the ER is filed for review by DLS. If the subcontractor's name is unknown, then write "unknown". Under "ownership", enter the appropriate race/ethnic and gender code. If the contract is federally funded or assisted and the subcontractor is being utilized in accordance with applicable federal requirements with respect to Minority Business Enterprise or Woman Business Enterprise requirements, enter the appropriate code. This will also apply to state funded contracts with similar requirements for minority and female owned businesses.

### FORM B: PROJECTED WORKFORCE FOR WORK TO BE PERFORMED ON THIS PROJECT

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

### FORM C: CURRENT WORKFORCE FOR WORK TO BE PERFORMED ON THIS PROJECT

For each trade *currently* engaged by your company for all work performed in NYC, enter the current workforce for Males and Females by trade classification in the charts provided.

### SIGNATURE PAGE

The signatory of this Employment Report and all other documents submitted to DLS must be an official authorized to enter into a binding legal agreement. The signature page must be completed in its entirety and notarized. Only original signatures will be accepted.

### The City of New York Department of Small Business Services Division of Labor Services Contract Compliance Unit 110 William Street, New York, New York 10038 Phone: (212) 513 - 6323

Fax: (212) 618-8879

### CONSTRUCTION EMPLOYMENT REPORT

### **GENERAL INFORMATION**

1.	Your contractual relationship in this contract is: Pri	me contractor_x_ Subcontractor		
1a.	Are M/WBE goals attached to this project? Yes	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:			
	Minority Owned Business EnterpriseWomen Owned Business EnterpriseDisadvantaged Business Enterprise	Locally Based Business EnterpriseEmerging Business Enterprise		
2a.	If you are certified as an MBE, WBE, LBE, EBE or DE certified with?A			
3.	Please indicate if you would like assistance from SBS in identifying certified M/WBEs for contracting opportunities: Yes No			
4.	Is this project subject to a project labor agreement? Yes No			
5.	Are you a Union contractor? Yes No If yes, please list which local(s) you affiliated with			
6.	Are you a Veteran owned company? Yes No			
PART	T I: CONTRACTOR/SUBCONTRACTOR INFORMATIO	N		
7.	Employer Identification Number or Federal Tax I.D.	Email Address		
8.	Employor Idonalion Number of Federal Tax I.D.	Email Address		
0.	Company Name			
9.	Company Address and Zip Code	•		
10.	- Company Course and Exp Cours			
10.	Chief Operating Officer	Telephone Number		
11.	Designate de la companya de la compa			
	Designated Equal Opportunity Compliance Officer (If same as Item #10, write "same")	Telephone Number		
12.	N. CD.			
	Name of Prime Contractor and Contact Person (If same as Item #8, write "same")			

13.	Number of employees in your company:	
14.	Contract information:	
	(a) Contracting Agency (City Agency)	(b) Contract Amount
	(c) Procurement Identification Number (PIN)	(d) Contract Registration Number (CT#)
	(e) Projected Commencement Date	(f) Projected Completion Date
	(g) Description and location of proposed contract	:
15.	abor Services (DLS) within the past 36 months	
	If yes, attach a copy of certificate.	
16.	loyment Report submission for your company Yes No	
	If yes, attach a copy of certificate.	
Wi	OTE: DLS WILL NOT ISSUE A CONTINUED CER TH THIS CONTRACT UNLESS THE REQUIRED ( NDITIONAL CERTIFICATES OF APPROVAL HAV	CORRECTIVE ACTIONS IN PRIOR
17.	Has an Employment Report already been submitt Employment Report) for which you have not yet reyes No If yes,	
	Date submitted:	
	Agency to which submitted:  Name of Agency Person:  Contract No:  Telephone:	
18.	Has your company in the past 36 months been at Labor, Office of Federal Contract Compliance Pro	udited by the United States Department of
	If yes,	

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	(a) Nam	ne and address of OFCCP office.
		a Certificate of Equal Employment Compliance issued within the past 36 months? No
	If ye	s, attach a copy of such certificate.
	(c) Wer	e any corrective actions required or agreed to? Yes No
	If ye	s, attach a copy of such requirements or agreements.
	(d) Wer	e any deficiencies found? Yes No
	If ye	s, attach a copy of such findings.
19.	is respo	company or its affiliates a member or members of an employers' trade association which nsible for negotiating collective bargaining agreements (CBA) which affect construction ag? Yes No
	If yes, a	ttach a list of such associations and all applicable CBA's.
PART	II: DOC	UMENTS REQUIRED
20.	brochure	following policies or practices, attach the relevant documents (e.g., printed booklets, es, manuals, memoranda, etc.). If the policy(ies) are unwritten, attach a full explanation ractices. See instructions.
	(a)	Health benefit coverage/description(s) for all management, nonunion and union employees (whether company or union administered)
	(b)	Disability, life, other insurance coverage/description
	(c)	Employee Policy/Handbook
	(d)	Personnel Policy/Manual
	(e)	Supervisor's Policy/Manual
	(f)	Pension plan or 401k coverage/description for all management, nonunion and union employees, whether company or union administered
	(g)	Collective bargaining agreement(s).
	(h)	Employment Application(s)
	(i)	Employee evaluation policy/form(s).
	(j)	Does your firm have medical and/or non-medical (i.e. education, military, personal, pregnancy, child care) leave policy?

21.	To comply with the Immigration Reform and Control Act of 1986 when <u>and of whom</u> does your firm require the completion of an I-9 Form?
	(a) Prior to job offer (b) After a conditional job offer (c) After a job offer (d) Within the first three days on the job (e) To some applicants (f) To all applicants (g) To some employees  Yes No
	(h) To all employees Yes No
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 No  (b) After a conditional job offer Yes No  (c) After a job offer Yes No  (d) To all applicants Yes No  (e) Only to some applicants Yes No
	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) Minorities and WomenIndividuals with handicapsOther. 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
	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
	If yes, attach a log. See instructions.
29.	Are there any jobs for which there are physical qualifications? Yes No
	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
	If yes, list the job(s), submit a job description and state the reason(s) for the qualification(s).

# **SIGNATURE PAGE**

submitted with the understanding requirements, as contained in Camended, and the implementing	with is true and complete to the bing that compliance with New Yor Chapter 56 of the City Charter, Exig Rules and Regulations, is a co	hereby certify that est of my knowledge and belief and k City's equal employment ecutive Order No. 50 (1980), as intractual obligation. I also agree on ds to the Division of Labor Services on
Contractor's Name		
Name of person who prepared	this Employment Report	Title
Name of official authorized to si	gn on behalf of the contractor	Title
Telephone Number		
Signature of authorized official		Date
If contractors are found to be ur 56 Section 3H, the Division of L data and to implement an emplo	abor Services reserves the right	es in any given trade based on Chapter to request the contractor's workforce
Contractors who fail to comply v	with the above mentioned require to the withholding of final payme	ements or are found to be in nt.
termination of the contract betw	s of any data or information submeen the City and the bidder or cove years. Further, such falsificati	intractor and in disapproval of future
Charter Chapter 56 of the City (	and consistent with the proper dis Charter and Executive Order No. provided by a contractor to DLS	scharge of DLS' responsibilities under 50 (1980) and the implementing Rules shall be confidential.
	Only original signatures acce	epted.
Sworn to before me this	day of 20	<del></del>
Notary Public	Authorized Signature	Date

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# CONTRACT BID INFORMATION: USE OF SUBCONTRACTORS/TRADES

FORM A.

Do you plan to subcontractor work on this contract? Yes\_\_\_\_

If yes, complete the chart below. ۲

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.

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

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

# OWNERSHIP CODES

W: White

Black ä

H: Hispanic A: Asian N: Native American F: Female

# FORM B: PROJECTED WORKFORCE

# TRADE CLASSIFICATION CODES

(J) Journeylevel Workers (H) Helper (TOT) Total by Column

(A) Apprentice (TRN) Trainee

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

Trade:				MALES					FEMALES		
		(1) White	(2) Black	(3)	4	(2)	(6) White	(7) Black	(8)	(6)	(10)
Union Affiliation, if applicable		Non Hisp.	Non Hisp.	Hisp.	Asian	Native Amer.	Non Hisp.	Non Hisp.	Hisp.	Asian	Native Amer.
Total (Col. #1-10):	7										
Total Minority, Male & Female	<b>I</b>										
(Col. #2,3,4,5,7,8,9, & 10):	∢										
Total Female (Col. #6 – 10):	TRN										
	101										
			:								

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

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FORM B: PROJECTED WORKFORCE

Trade:			. 2	MALES				뿐	FEMALES			
Union Affiliation, if applicable		(1) White Non Hisp.	(2) Black Non Hisp.	Hisp.	(4) Asian	(5) Native Amer	(6) White Non Hisp.	(7) (8) Black Non Hisp.	(8) Hisp	(9) Asian	(10) Native	
Total (Col. #1-10):	7		•									
Total Minority, Male & Female	I					<del></del>						
(Col. #2,3,4,5,7,8,9, & 10):	∢											
Total Female (Col. #6 – 10):	TRN											
	101							·				
	•								-			

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

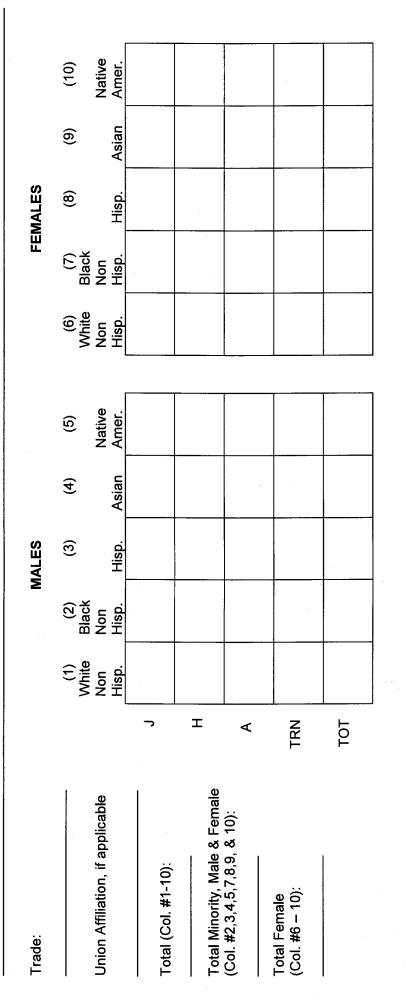
# FORM C: CURRENT WORKFORCE

# TRADE CLASSIFICATION CODES

(J) Journeylevel Workers (H) Helper (TOT) Total by Column

(A) Apprentice (TRN) Trainee

all work performed in New York City, enter the current workforce For each trade currently engaged by your company for for Males and Females by trade classification on the charts below.



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

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FORM C: CURRENT WORKFORCE

Trade:			Σ	MALES					FE	FEMALES		
Union Affiliation if applicable		(1) White	(2) Black Non	(3)	(4)	(5) Native	₹ž	(6) White	(7) Black	(8)	(6)	(10) Native
		Hisp.	Hisp.	Hisp.	Asian	Amer.	Ϊ	<u> </u>	Hisp.	Hisp.	Asian	Amer.
Total (Col. #1-10):	٠,									:		
Total Minority. Male & Female	I						· · ·					
(Col. #2,3,4,5,7,8,9, & 10):	∢											
Total Female (Col. #6 – 10):	T RN							7				
	TOT											

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

(NO TEXT ON THIS PAGE)

# The City of New York Department of Small Business Services Division of Labor Services Contract Compliance Unit 110 William Street, New York, New York 10038

Phone: (212) 513 - 6323 Fax: (212) 618-8879

# CONSTRUCTION EMPLOYMENT REPORT

# **GENERAL INFORMATION**

1.	Your contractual relationship in this contract is: Prime contractor Subcontractor_x_
1a.	Are M/WBE goals attached to this project? Yes 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:
	Minority Owned Business EnterpriseLocally Based Business EnterpriseBusiness EnterpriseEmerging Business EnterpriseBusiness Enter
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
3.	Please indicate if you would like assistance from SBS in identifying certified M/WBEs for contracting opportunities: Yes No
4.	Is this project subject to a project labor agreement? Yes No
5.	Are you a Union contractor? Yes No If yes, please list which local(s) you affiliated with
6.	Are you a Veteran owned company? Yes No
PART	I: CONTRACTOR/SUBCONTRACTOR INFORMATION
7.	Employer Identification Number or Federal Tax I.D. Email Address
8.	
	Company Name
9.	Company Address and Zip Code
10.	
	Chief Operating Officer Telephone Number
11.	Designated Equal Opportunity Compliance Officer Telephone Number (If same as Item #10, write "same")
12.	Name of Prime Contractor and Contact Person
	(If same as Item #8, write "same")

13.	Number of employees in your company:	
14.	Contract information:	
	(a) Contracting Agency (City Agency)	(b)Contract Amount
	(c) Procurement Identification Number (PIN)	(d) Contract Registration Number (CT#)
	(e) Projected Commencement Date	(f) Projected Completion Date
	(g) Description and location of proposed contract	
15.	Has your firm been reviewed by the Division of La and issued a Certificate of Approval? Yes No	bor Services (DLS) within the past 36 months
	If yes, attach a copy of certificate.	
16.	Has DLS within the past month reviewed an Empl and issued a Conditional Certificate of Approval?	
	If yes, attach a copy of certificate.	
WI	TE: DLS WILL NOT ISSUE A CONTINUED CERTIFICATION OF THE REQUIRED CONTINUED C	CORRECTIVE ACTIONS IN PRIOR
17.	Has an Employment Report already been submitted Employment Report) for which you have not yet reference. No If yes,	
	Agency to which submitted:  Name of Agency Person:	
	Contract No: Telephone:	
18.	Has your company in the past 36 months been au Labor, Office of Federal Contract Compliance Pro-	
	If yes,	

	(a) Nam	ne and address of OFCCP office.
		s a Certificate of Equal Employment Compliance issued within the past 36 months? No
	If ye	s, attach a copy of such certificate.
	(c) Wer	e any corrective actions required or agreed to? Yes No
	If ye	s, attach a copy of such requirements or agreements.
	(d) Wer	e any deficiencies found? Yes No
	If ye	es, attach a copy of such findings.
19.	is respo	company or its affiliates a member or members of an employers' trade association which nsible for negotiating collective bargaining agreements (CBA) which affect construction ng? Yes No
	If yes, a	ttach a list of such associations and all applicable CBA's.
PART	II: DOC	UMENTS REQUIRED
20.	brochur	following policies or practices, attach the relevant documents (e.g., printed booklets, es, manuals, memoranda, etc.). If the policy(ies) are unwritten, attach a full explanation ractices. See instructions.
	(a)	Health benefit coverage/description(s) for all management, nonunion and union employees (whether company or union administered)
	(b)	Disability, life, other insurance coverage/description
	(c)	Employee Policy/Handbook
	(d)	Personnel Policy/Manual
	(e)	Supervisor's Policy/Manual
	(f)	Pension plan or 401k coverage/description for all management, nonunion and union employees, whether company or union administered
	(g)	Collective bargaining agreement(s).
	(h)	Employment Application(s)
	(i)	Employee evaluation policy/form(s).
	(j)	Does your firm have medical and/or non-medical (i.e. education, military, personal, pregnancy, child care) leave policy?

To comply with the Immigration Reform and Control Act of 1986 when <u>and of whom</u> does you firm require the completion of an I-9 Form?
(a) Prior to job offer (b) After a conditional job offer (c) After a job offer (d) Within the first three days on the job (e) To some applicants (f) To all applicants (g) To some employees  Yes No  Yes No  Yes No  Yes No
(h) To all employees  Yes No  Explain where and how completed I-9 Forms, with their supportive documentation, are maintained and made accessible.
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 No  (b) After a conditional job offer Yes No  (c) After a job offer Yes No  (d) To all applicants Yes No  (e) Only to some applicants Yes No
If yes, list for which applicants below and attach copies of all medical examination or questionnaire forms and instructions utilized for these examinations.
Do you have a written equal employment ennertwrity (EEO) notice? Vee
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.
Does the company have a current affirmative action plan(s) (AAP) Minorities and Women Individuals with handicaps Other. Please specify
Does your firm or collective bargaining agreement(s) have an internal grievance procedure w respect to EEO complaints? Yes No
If yes, please attach a copy of this policy.

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
	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
	If yes, attach a log. See instructions.
29.	Are there any jobs for which there are physical qualifications? Yes No
	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
	If yes, list the job(s), submit a job description and state the reason(s) for the qualification(s).

# SIGNATURE PAGE

submitted with the understandin requirements, as contained in C amended, and the implementing	with is true and complete to the b ig that compliance with New Yor chapter 56 of the City Charter, E g Rules and Regulations, is a co	hereby certify that lest of my knowledge and belief and lek City's equal employment executive Order No. 50 (1980), as intractual obligation. I also agree on ds to the Division of Labor Services on
Contractor's Name		
Name of person who prepared t	his Employment Report	Title
Name of official authorized to sign	gn on behalf of the contractor	Title
Telephone Number		
Signature of authorized official		Date
If contractors are found to be un 56 Section 3H, the Division of La data and to implement an emplo	abor Services reserves the right	es in any given trade based on Chapter to request the contractor's workforce
Contractors who fail to comply we noncompliance may be subject	vith the above mentioned require to the withholding of final payme	ements or are found to be in ent.
Willful or fraudulent falsifications termination of the contract betwee contracts for a period of up to five criminal prosecution.	een the City and the bidder or co	nitted herewith may result in the ontractor and in disapproval of future ion may result in civil and/and or
To the extent permitted by law a Charter Chapter 56 of the City Cand Regulations, all information	Charter and Executive Order No.	scharge of DLS' responsibilities under 50 (1980) and the implementing Rules shall be confidential.
	Only original signatures acc	epted.
Sworn to before me this	day of 20	·
Notary Public	Authorized Signature	Date

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# CONTRACT BID INFORMATION: USE OF SUBCONTRACTORS/TRADES

FORM A.

Do you plan to subcontractor work on this contract? Yes\_\_\_ No\_\_

If yes, complete the chart below. ر ان

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.

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

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

# OWNERSHIP CODES

W: White

Black ä

H: Hispanic A: Asian N: Native American F: Female

# FORM B: PROJECTED WORKFORCE

# TRADE CLASSIFICATION CODES

(J) Journeylevel Workers(H) Helper(TOT) Total by Column

(A) Apprentice (TRN) Trainee

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:			Σ	MALES				H	FEMALES		
Union Affiliation, if applicable		(1) White Non	(2) Black Non	(3)	<del>4</del>	(5) Native	(6) White Non	(7) Black Non	(8)	(6)	(10) Native
		Hisp.	Hisp.	Hisp.	Asian	Amer.	Hisp.	Hisp.	Hisp.	Asian	Amer.
Total (Col. #1-10):	7										
Total Minority, Male & Female	I										
(Col. #2,3,4,5,7,8,9, & 10):	∢										
Total Female (Col. #6 – 10):	T RN										
	TOT										
	•										

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

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FORM B: PROJECTED WORKFORCE

rade:			Σ	MALES				Ш	FEMALES		
inion Affiliation if annlicable		(1) White	(2) Black	(3)	<b>4</b>	(5) Native	(6) White	(7) Black	(8)	(6)	(10)
		Hisp.	Hisp.	Hisp.	Asian	Amer.	Hisp.	Hisp.	Hisp.	Asian	Amer.
otal (Col. #1-10):	7										-
	I				***						
otal Minority, Male & Female	•										
Col. #2,3,4,5,7,8,9, & 10):	∢										_
otal Female Col #6 – 10)	TRN										
•	101										
	-								-		

# FORM C: CURRENT WORKFORCE

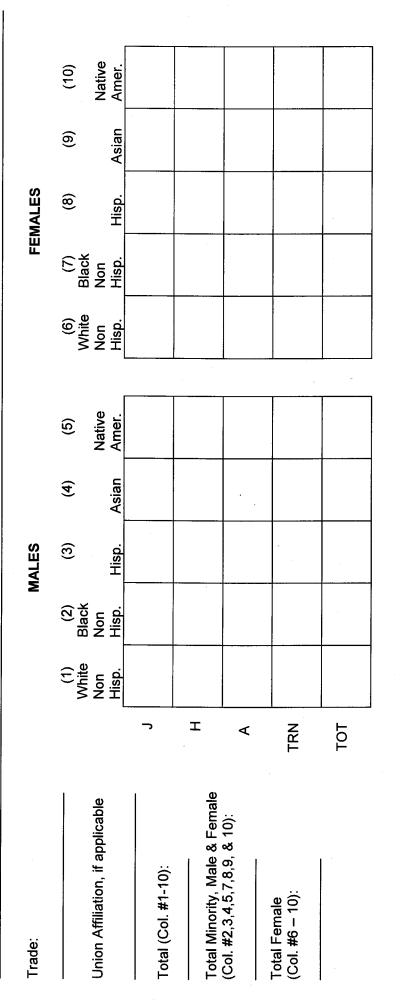
# TRADE CLASSIFICATION CODES

(J) Journeylevel Workers (H) Helper

(TOT) Total by Column

(A) Apprentice (TRN) Trainee

For each trade currently engaged by your company for all work performed in New York City, enter the current workforce for Males and Females by trade classification on the charts below.



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

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FORM C: CURRENT WORKFORCE

Multiple Black	Trade:			2	MALES					FEM	FEMALES		
Asian Amer. Hisp. Try.  TRN  TOT	Jnion Affiliation, if applicable		(1) White Non	(2) Black Non	(3)	<b>4</b>	(5) Native	)) Non		<i>د</i> ې د	(8)	(6)	(10) Native
<u> </u>			Hisp.	Hisp.	Hisp.	Asian	Amer.	HIS	-	-	Hisp.	Asian	Amer.
<u>a</u>	Total (Col. #1-10):	٦,											
Total Minority, Male & Female (Col. #2,3,4,5,7,8,9, & 10):  A Total Female (Col. #6 – 10):  TOT  TOTAL PARTICLE (Col. #6 – 10):		3					,						
	rotal Minority, Male & Female	<b>=</b>											
	Col. #2,3,4,5,7,8,9, & 10):	∢								,			
	otal Female							:					
TOT	Col. #6 – 10):	TRN						-					
		тот											

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# The City of New York Department of Small Business Services Division of Labor Services Contract Compliance Unit 110 William Street, New York, New York 10038

Phone: (212) 513 - 6323 Fax: (212) 618-8879

Date	File Number
·	SUBCONTRACT CERTIFICATE ATE AND ICIP ONLY)
Are you currently certified as one of the following? Pl	ease check yes or no:
MBE YesNo WBE YesNo _	LBE YesNo
DBE YesNo EBE YesNo	
If you are certified as an MBE, WBE, LBE, EBE or DE	BE, what city/state agency are you certified with?
Please check one of the following if your firm would like	se information on how to certify with the City of New York as a:
Minority Owned Business Enterprise	Locally based Business Enterprise
Women Owned Business Enterprise	Emerging Business Enterprise
Disadvantaged Business Enterprise	
Company Name	Employer Identification Number or Federal Tax I.D
Company Address and Zip Code	
Contact Person (First Name, Last Name)	Telephone Number
Fax Number	E-mail Address
Description and location of proposed subcontract:	
Are you a Union contractor? Yes No If	yes, please list which local(s) you affiliated with
Are you a Veteran owned company? Yes No _	
Procurement Identification Number (PIN) (City contracts only)	Contract Registration Number (CT#) (City contracts only)

Revised 8/13

FOR OFFICIAL USE ONLY: File No.

Block and Lot Number (ICIP projects only)	Contract Amount	<b>5.</b>
above named owner or City age	cial signing)d subcontractor to certify that said subcontractor's prency is less than \$750,000. This affirmation is made Order No. 50 (1980) and the implementing Rules.	
contract between the City and tl	s of any data or information submitted herewith may he bidder or contractor and in disapproval of future of cation may result in civil and/and or criminal prosecu	contracts for a period of up to
Signature of authorized official		Date
Sworn to before me this	Only original signatures accepted. day of20	lika mpaka ii



# INFRASTRUCTURE DIVISION BUREAU OF DESIGN

# VOLUME 1 OF 3

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto BOROUGH OF QUEENS CITY OF NEW YORK

	Contractor.
Dated	, 20

1 18



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

30-30 THOMSON AVENUE LONG ISLAND CITY, NEW YORK 11101-3045 TELEPHONE (718) 391-1000 WEBSITE www.nyc.gov/buildnyc

LAW

**VOLUME 2 OF 3** 

INFORMATION FOR BIDDERS
CONTRACT
PERFORMANCE AND PAYMENT BONDS
PREVAILING WAGE SCHEDULE

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

PROJECT ID: HWQ985

**ROADWAY IMPROVEMENTS IN** 

**SHORE ROAD** 

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto
BOROUGH OF QUEENS
CITY OF NEW YORK



FOR THE DEPARTMENT OF TRANSPORTATION PREPARED BY HAZEN AND SAWYER

**APRIL 11, 2014** 



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

30-30 THOMSON AVENUE LONG ISLAND CITY, NEW YORK 11101-3045 TELEPHONE (718) 391-1000 WEBSITE www.nyc.gov/buildnyc

# **VOLUME 2 OF 3**

# INFORMATION FOR BIDDERS CONTRACT PERFORMANCE AND PAYMENT BONDS PREVAILING WAGE SCHEDULE

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:



FOR THE DEPARTMENT OF TRANSPORTATION PREPARED BY IN-HOUSE DESIGN

**DECEMBER 24, 2013** 

# **NOTICE TO BIDDERS**

Please be advised that the City of New York has issued a new Standard Construction Contract. The new Contract, which is incorporated in this bid, is significantly different from the 2008 version previously used by the City. A listing of some of the significant changes is provided below. This notice is only a partial listing. Please refer to the Contract itself for a full understanding of the changes and the actual text of the changes that were made. The text of the revised Standard Construction Contract is the controlling document should there be any discrepancies between this notice and the Standard Construction Contract.

Significant changes include the following:

## ARTICLE 11 DAMAGES CAUSED BY DELAYS

In 2008, the City embarked on a pilot project to test the use of new construction contract language altering the allocation of the risk of project delays, as between the City and the contractor. The City has determined to make the pilot project language the standard language for all City construction contracts. Accordingly, there is now one Standard City Construction Contract that it to be used by all agencies for all bids released after the release of the new contract. The damages for delay language is Article 11. Please note that changes have been made to the damages for delay provisions from the pilot to the adopted version.

### ARTICLE 22 INSURANCE

Changes have been made to the insurance provisions, including incorporating requirements that the insurance provided comply with recent NYC Department of Buildings regulations specifying required dollar limits for CGL insurance for certain projects and requiring proof of builder's risk insurance prior to Work commencing rather than within 10 days of award.

# ARTICLE 26 EXTRA WORK

The percentage paid for overhead for Extra Work pursuant to Section 26.1.11 is increased from 10% to 12% and the calculation of Worker's Compensation insurance costs reimbursed for Extra Work has been clarified.

ARTICLE 37 LABOR LAW REQUIREMENTS

ARTICLE 38 PAYROLL REPORTS

The provisions governing Labor Law provisions have been tightened, including requirements the employee identification cards include a photo (unless the requirement is waived), a prohibition on cash payments to employees and subcontractors, and clear enforcement authority requirements.

# ARTICLE 70 ELECTRONIC FILING

A provision is added to make mandatory the electronic filing of certain alteration permits with the Department of Buildings.

# Other significant changes include the following:

# ARTICLE 7 INDEMNIFICATION

Changes have been made to the indemnification provisions.

ARTICLE 14 FINAL ACCEPTANCE OF WORK
ARTICLE 44 SUBSTANTIAL COMPLETION PAYMENT

The Commissioner is no longer required to issue a substantial completion determination in addition to the already existing requirement that the Engineer issue a substantial completion determination and reach an agreement on a punch list of remaining work. Now, the Engineer, when issuing the punch list to the Contractor, must also include a proposed schedule for the completion of the punch list. The Contractor may propose an alternative schedule that is subject to the approval of the Engineer. If the Contractor fails to respond to the Engineer's proposed schedule, the Engineer's schedule is deemed accepted.

# ARTICLE 15 LIQUIDATED DAMAGES

The contract is revised to match Schedule A to provide that liquidated damages are available only until substantial completion.

# ARTICLE 17 SUBCONTRACTS

The requirements for prior approval of subcontractors, and for contractors to be responsible for the actions of their subcontractors, have been tightened. The requirement that the Contractor list subcontractors in the City's Payee Information Portal has been added; the provision was previously attached as a rider.

## ARTICLE 19 SECURITY DEPOSIT

The provisions governing the return of bid deposits are clarified.

# ARTICLE 20 PAYMENT GUARANTEE

The Payment Guaranty provisions, which apply when the City does not require the Contractor to obtain payment bonds, has been significantly revised to track the requirements of State Finance law 137.

# ARTICLE 28 RECORDKEEPING FOR EXTRA OR DISPUTED WORK

The recordkeeping requirement that currently apply to payments for Time & Materials for extra work are expressly made applicable to regular work that is paid for on a T & M basis.

### ARTICLE 35 EMPLOYEES

The whistleblower provisions of local law are added to the construction contract. They previously have been attached as a rider.

# ARTICLE 38 PAYROLL REPORTS ARTICLE 77 RECORDS RETENTION

Requirements that records be maintained for six years and directions on how such records must be made available.

### ARTICLE 42 PARTIAL PAYMENTS

Increased flexibility has been provided for when contractors may submit invoices.

# ARTICLE 62 TAX EXEMPTION

The provisions identifying the State tax exemption for municipalities are revised to more clearly describe State law.

(NO TEXT ON THIS PAGE)

# **CITY OF NEW YORK**

# DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURES

# **INFORMATION FOR BIDDERS**

**SEPTEMBER 2008** 

(NO TEXT ON THIS PAGE)

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### INFORMATION FOR BIDDERS

### 1. Description and Location of Work

The description and location of the work for which bids are requested are specified in Attachment 1, "Bid Information". Attachment 1 is included as page A-l of the Bid Booklet.

### 2. Time and Place for Receipt of Bids

Sealed bids shall be received on or before the date and hour specified in Attachment 1, at which time they will be publicly opened and read aloud in the presence of the Commissioner or his or her representative, and any bidders who may desire to be present.

### 3. <u>Definitions</u>

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

### 4. <u>Invitation For Bids and Contract Documents</u>

- (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, if used, 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 at the location set forth in Attachment 1.
- (C) <u>Deposit for Copy of Invitation For Bids Documents</u>: Prospective bidders may obtain a copy of the Invitation For Bids Documents by complying with the conditions set forth in the Notice of Solicitation. The deposit must be in the form of a check or money order made payable to the City of New York, and drawn upon a state or national bank or trust company, or a check of such bank or trust company signed by a duly authorized officer thereof.
- (D) Return of Invitation For Bids Documents: All Invitation For Bids Documents must be returned to the Department upon request. If the bidder elects not to submit a bid thereunder, the

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Invitation For Bids Documents shall be returned to the Department, along with a statement that no bid will be submitted.

- (E) Return of Deposit: Such deposit will be returned within 30 days after the award of the contract or the rejection of all bids as set forth in the advertisement, provided the Invitation For Bids Documents are returned to the location specified in Attachment 1, in physical condition satisfactory to the Commissioner.
- (F) <u>Additional Copies</u>: Additional copies of the Invitation For Bids Documents may be obtained, subject to the conditions set forth in the advertisement for bids.

### 5. <u>Pre-Bid Conference</u>

A pre-bid conference shall be held as set forth in Attachment 1. 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 Attachment 1.

### 7. <u>Bidder's Oath</u>

- (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 Attachment 1.
- (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 he finds that they do so materially differ, or that they could not have been reasonably anticipated by the contractor and were not anticipated by the City, the Contract may be modified with his written approval.

### 9. <u>Examination of Proposed Contract</u>

- (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. <u>Irrevocability of Bid</u>

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. <u>Bid Samples and Descriptive Literature</u>

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. <u>Proprietary Information/Trade Secrets</u>

- (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 Attachment 1, 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. <u>Bid Evaluation and Award</u>

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.

<u>Restriction</u>: 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 his option, may ask to be relieved of his 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. <u>Mistake in Bids</u>

(A) <u>Mistake Discovered Before Bid Opening</u>: 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) <u>Mistakes Discovered Before Award</u>

- (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) <u>Rejection of All Bids</u>: 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.
- (D) 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. <u>Right to Appeal Determinations of Non-Responsiveness or Non-Responsibility and Right to Protest Solicitations and Award</u>

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. VENDEX Questionnaires

- (A) Requirement: Pursuant to Administrative Code Section 6-116.2 and the PPB Rules, bidders may be obligated to complete and submit VENDEX Questionnaires. Generally, if this bid is \$100,000 or more, or if this bid when added to the sum total of all contracts, concessions and franchises the bidder has received from the City and any subcontracts received from City contractors over the past twelve months, equals or exceeds \$100,000, Vendex Questionnaires must be completed. If required, Vendex Questionnaires must be completed and submitted before any award of contract may be made or before approval is given for a proposed subcontractor. Non-compliance with these submission requirements may result in the disqualification of the bid, disapproval of a subcontractor, subsequent withdrawal of approval for the use of an approved subcontractor, or the cancellation of the contract after its award.
- (B) <u>Submission</u>: Vendex Questionnaires must be submitted directly to the Mayor's Office of Contract Services, ATTN: Vendex, 253 Broadway, 9th Floor, New York, New York 10007. In addition, the bidder must submit a Confirmation of Vendex Compliance to the agency. A form for this confirmation is set forth in the Bid Booklet.
- (C) Obtaining Forms: Vendex Questionnaires, as well as detailed instructions, may be obtained at www.nyc.gov/vendex. The bidder may also obtain Vendex forms and instructions by contacting the

Agency Chief Contracting Office or the contract person for this contract.

### 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)669-2797.

### 26. Bid, Performance and Payment Security

- (A) Bid Security: Each bid must be accompanied by bid security in an amount and type specified in Attachment 1 (page A-1 of the Bid Booklet). 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 Attachment 1. 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 Attachment 1 (page A-l of the Bid Booklet). 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) <u>Acceptable Types of Security</u>: 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: (I) 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 202-512-1800; (2) through the Internet at <a href="http://www.fms.treas.gov/c570/index.html">http://www.fms.treas.gov/c570/index.html</a>, and (3) through a computerized public bulletin board, which can be accessed by using your computer modern and dialing 202-874-6887.

(E) <u>Power of Attorney</u>: 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 his 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 his 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 Bid Booklet.

### 30. <u>Labor Law Requirements</u>

- (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) <u>Records</u>: 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. <u>Lump Sum Contracts</u>

- (A) <u>Comparison of Bids</u>: 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) <u>Variations from Engineer's Estimate</u>: 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) <u>Comparison of Bids</u>: 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) <u>Variations from Engineer's Estimate</u>: 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. <u>Licenses and Permits</u>

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":
    - 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 its 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 following forms, all of which are contained in the Bid Booklet, are to be completed and submitted with the bid:

- (1) Bid Schedule and Bid Form, including Affirmation
- (2) Bid Security (if required, see Attachment 1 on Page A-1)
- (3) M/WBE Subcontactor Utilization Plan (if participation goals have been established)

# FAILURE TO SUBMIT ITEMS (1), (2) AND (3) WILL RESULT IN THE DISQUALIFICATION OF THE BID.

- (4) Safety Questionnaire
- (5) Construction Employment Report (if bid is \$1,000,000 or more)
- (6) Contract Certificate (if bid is less than \$1,000,000)
- (7) Confirmation of Vendex Compliance
- (8) Special Experience Requirements (if applicable to this contract)
- (9) Apprenticeship Program Questionnaire (if applicable)

# FAILURE TO SUBMIT ITEMS (4) THROUGH (9) MAY RESULT IN THE DISQUALIFICATION OF THE BID.

### 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.

### **CITY OF NEW YORK**

### DEPARTMENT OF DESIGN AND CONSTRUCTION

### SAFETY REQUIREMENTS

### THE DDC SAFETY REQUIREMENTS INCLUDE THE FOLLOWING SECTIONS: I. POLICY ON SITE SAFETY..... II. PURPOSE ..... III. DEFINITIONS..... IV. RESPONSIBILITIES V. SAFETY QUESTIONNAIRE ..... VI. SAFETY PROGRAM AND SITE SAFETY PLAN VII. KICK-OFF/PRE-CONSTRUCTION MEETINGS AND SAFETY REVIEW ..... VIII. EVALUATION DURING WORK IN PROGRESS .....

SAFETY PERFORMANCE EVALUATION.....

IX.

### 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 jobsites must, at a minimum, comply with applicable federal, state and city laws, rules and regulations, including without limitation:

- □ U. S. Department of Labor 29 Code of Federal Regulations (CFR) Part 1926 and applicable Sub-parts of Part 1910 U.S. Occupational Safety and Health Administration (OSHA) including, but not limited to "Respiratory Protection" (29 CFR 1910.134), "Permit-Required Confined Spaces" (29 CFR 1910.146), and "Hazard Communication" (29 CFR 1910.1200);
- New York State Department of Labor Industrial Code Rule 23 Protection in Construction, Demolition and Excavation:
- ☐ New York City Construction Codes, Title 28
- □ NYC Department of Transportation Title 34 Chapter 2 Highway Rules
- □ New York State Department of Labor Industrial Code Rule 753
- □ NYC Local Law No. 113 (2005) Noise Control Code

In addition, all regulations promulgated by the NYC Department of Transportation, including requirements for Maintenance and Protection of Traffic (MPT), are applicable when contained in contract specifications. While MPT is a significant component of work in our Infrastructure Division, it does not supersede or exempt Contractors from complying with other applicable health and safety standards (for example, excavating and trenching standards, operation of heavy equipment and compliance with City environmental and noise regulations).

### 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 hazard, 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 shall mean the person delegated authority by the Commissioner to organize and supervise the procurement activity of subordinate Agency staff in conjunction with the 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.

Construction Safety Auditor: A representative of the QACS Construction Safety Unit 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 surveys, reviewing health and safety plans, reviewing construction permits, and rendering technical advice and assistance to DDC Resident Engineers and Project Managers.

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Construction Safety Unit: A part of QACS within the Division of Technical Support that assesses contractor safety on DDC jobsites and advises responsible parties of needed corrective actions.

Construction Superintendent: A representative of the contractor responsible for overseeing performance of the required construction work. This individual must engage in sound construction practices, and is responsible to maintain a safe work site. In the case of a project involving the demolition, alteration or new construction of buildings, the Construction Superintendent must be licensed by the NYC Department of Buildings.

Contractor: For purposes of these Safety Requirements, the term "Contractor" shall mean any person or entity that enters into a contract for the performance of construction work on a DDC project. The term "Contractor" shall 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").

**Director - Quality Assurance and Construction Safety (QACS)**: Responsible for the operations of the QACS Construction Safety Unit and the DDC Site Safety management programs.

Job Hazard Assessment (JHA): A process of identifying site-specific hazards that may be present during construction and establishing the means and methods to reduce or eliminate those hazards.

Jobsite Safety Coordinator: A person designated by the Contractor to be onsite during all activities. This individual shall have received, at a minimum, the OSHA 10-hour construction safety program. Other examples of acceptable training are the 30-hour OSHA Safety and Health Standards for the Construction Industry training program (OSHA 510) or a degree/certificate in a safety and health from a college-level curriculum. This person does not necessarily have to be dedicated full-time to site safety, but must have sufficient experience and authority to undertake corrective action and must qualify to be a competent person. For certain projects, as defined in NYC Construction Codes – Title 28, this person may be required to have a Site Safety Manager's License issued by the NYC DOB.

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 and trenching and shoring, among others.

Resident Engineer (RE) / Construction Project Manager (CPM): Representative of the Commissioner duly designated by the Commissioner to be his/her representative at the site of the work. (The RE/CPM may be a third-party consultant, including a CM, retained by DDC.)

Safety Program: Established by the Contractor that covers all operations of that Contractor and establishes the Contractor's overall safety policy, regulatory compliance plan and minimum safety standards. The Safety Program must be submitted prior to the commencement of work at the site and is subject to review and acceptance by the Construction Safety Unit.

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 Plan: A site-specific safety plan developed by the Contractor for a specific project. The Site Safety Plan must identify hazards associated with the project, and include specific safety precautions and training appropriate and necessary to complete the work. The Site Safety Plan must be submitted prior to the commencement of work at the site and is subject to review and acceptance by the Construction Safety Unit.

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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 documented 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.

### IV. RESPONSIBILITIES

All persons who manage, perform, and provide support for construction projects shall 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 / Construction Project Manager / Construction Manager

- Monitors the issuance of safety-related permits, approvals and drawings and maintains copies on site.
- Monitors construction-related work activities to confirm that they are conducted in accordance with DDC policies
  and all applicable regulations that pertain to construction safety.
- Maintains documentation and periodically attends weekly safety meeting.
- Notifies the Construction Safety Unit and the ACCO's Insurance and Risk Management Unit of project-related accidents and emergencies, as per DDC's Construction Safety Emergency Protocol.
- Gathers facts related to all accidents and prepares DDC Accident Reports.
- Notifies the Construction Safety Unit of outside regulatory agency inspections and forwards a copy of the inspection report within three days of its receipt.
- Monitors the conditions at the site for conformance with the Site Safety Plan and DDC construction documents.
- Notifies the contractor and DDC in the event that any condition or activity exists that is not in compliance with
  the 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.
- Notifies DDC of any emergency condition and directs the contractor to provide such labor, materials, equipment and supervision to abate such conditions.
- Reports gross safety violations to the Construction Safety Unit immediately.

### **B.** Contractors

- Complete a Safety Questionnaire and submit with its bid or as part of a pre-qualification package.
- Provide a Written Job Hazard Assessment (JHA) that identifies expected safety issues of the work to be performed. JHA shall be included with the Site Safety Plan submitted by the contractor.
- Submit a Site Safety Plan and Safety Program within 15 days of issuance of the Notice to Proceed, or as
  otherwise directed. The Site Safety Plan and Safety Program are subject to review and acceptance by the
  Construction Safety Unit prior to the commencement of work at the site. The Site Safety Plan shall be revised and
  updated as necessary.
- Ensure that all employees are aware of the hazards associated with the project through formal and informal training and/or other communications. Conduct and document weekly safety meetings for the duration of the project. Documentation to be provided to the RE/CPM/CM on a monthly basis.
- Name a Construction Superintendent, if required.
- Name a Job Site Safety Coordinator. The Contractor will be required to identify the Job Site Safety Coordinator in the Site Safety Plan.
- Comply with all mandated federal, state and local safety and health rules and regulations.
- Comply with all provisions of the Site Safety Plan.
- As part of the Site Safety Plan, prepare a site specific MPT (if not otherwise provided in the contract documents) and comply with all of its provisions.

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- Conduct and document site-specific safety orientation for Contractor 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 Job Site Safety Coordinator will conduct this training prior to mobilization and provide documentation to the RE/CPM/CM.
- 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.).
- Report unsafe conditions or hazards to the DDC RE/CPM/CM as soon as practical, but no more than 24 hours after discovery, and take action to remove or abate such conditions.
- Report any accident involving injuries to workers or the general public, as well as property damage, to the DDC RE/CPM/CM within two (2) hours.
- Notify the DDC RE/CPM/CM within two (2) hours of the start of an inspection by any regulatory agency personnel, including OSHA.
- Maintain all records pertaining to all required compliance documents and accident and injury reports.
- Respond to DDC recommendations on safety, which shall 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 and environmental 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 must submit a completed DDC Safety Questionnaire listing their workers' compensation experience modification rating and OSHA Incidence 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 must provide the requested update within 30 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 years; and
- Criteria 4: A fatality (worker or member of public) experienced on or near Contractor's worksite within the last three (3) years; and
- Criteria 5: An unacceptable rating by OACS based on past performance on DDC projects; and
- Criteria 6: Contractor has in place an acceptable corporate safety program and its employees shall have completed all documented relative safety training; and
- Criteria 7: Contractor shall provide OSHA Injury Records (currently OSHA 300 Log) for the last three (3) years.

If the Contractor fails to meet the basic criteria listed above, the Construction Safety Unit may request, through the ACCO, more detail concerning the Contractor's safety experience. DDC may request the Contractor to provide copies of, among other things, OSHA records, OSHA and DOB citations, EPA citations and written Safety Programs.

### VI. SAFETY PROGRAM AND SITE SAFETY PLAN

Within fifteen (15) days of issuance of the Notice to Proceed, or as otherwise directed, the Contractor shall submit the following: (1) Safety Program, and (2) Site Safety Plan. The Safety Program shall set forth the Contractor's overall safety policy, regulatory compliance plan and minimum safety standard, and the Site Safety Plan shall identify hazards associated with the project, and include specific safety precautions and training appropriate and necessary to complete the work. The Safety Program and the Site Safety Plan are subject to review and acceptance by the Construction Safety Unit prior to the commencement of work at the site. Failure by the contractor to submit an acceptable Site Safety Plan and Safety Program shall be grounds for default.

The Site Safety Plan shall apply to all Contractor and subcontractor operations, and shall have at a minimum, the following elements. Each element shall be described in a separate section in the written document. It may be necessary to modify the basic format for certain unique or high-risk projects (such as tunnels or high-rise construction). The basic elements are as follows:

- Responsibility and Organization: Identify the person or persons with authority and responsibility for implementing the Site Safety Plan. Provide an organization chart and define levels of authority and responsibility. Identify the Competent Person, the Construction Superintendent (if required), the Job Safety Coordinator and the Qualified Person required for this project.
- 2. Communication: Establish a system for communicating with employees and subcontractors on matters relating to worker and public safety and health and environmental protection, including provisions designed to encourage employees to inform the employer of hazards at the worksite without fear of reprisal. An emergency response notification protocol is to be established that also includes after hours contact numbers. The plan must also include provisions for weekly safety meetings held by the Job Site Safety Coordinator.
- 3. Job Hazard Assessment: A written document submitted by the contractor, used to identify expected job hazards and public safety risks and state the specific means and methods to reduce, control or eliminate those hazards. This part of the Site Safety Plan must also include how on-going evaluations of those risks and hazards will be carried out, including plans for periodic inspections to identify unsafe conditions, work practices and public safety hazards.
- 4. Accident/Exposure Investigation: Establish a procedure to investigate and report occupational and public injury or illness, property damage, vehicle accidents or other mishaps.
- 5. Hazard Correction: Establish means, methods and/or procedures for correcting unsafe or unhealthy conditions that might be exposing both the public and workers to hazards. Corrective actions must be taken immediately when observed or discovered. Should an imminent hazard exist which cannot be immediately abated without endangering employees, the public and/or property, remove or restrict all exposed persons from the area except those necessary to correct the existing condition. Employees necessary to correct the hazardous condition shall be provided the necessary safeguards. When corrective actions cannot be taken immediately, temporary measures should be taken until such time permanent measures are taken to eliminate the potential risks or hazards
- 6. Training: Describe site-specific hazard training programs. In addition to the required safety orientation, additional site specific training, in the form of required weekly safety meetings, will be required. Contractors must also initiate training when: a) new employees are hired; b) employees are given new job assignments for which training has not been previously received; c) new substances, processes, procedures or equipment are introduced that might represent a new public or worker hazard; d) the employee is made aware of a new or previously unrecognized hazard; e) new supervisors are assigned to familiarize themselves with the safety and health hazards to which employees under their immediate direction and control may be exposed; and f) after a jobsite incident or accident has occurred.

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7. Recordkeeping: Establish procedures to maintain records of scheduled and periodic inspections, weekly safety meetings, and training records. Updated records shall be maintained at the jobsite, accessible to the Construction Safety Auditors and/or Quality Assurance Auditors/RE/CPM, and retained in accordance with DDC policy.

The most critical component of the Site Safety Plan is the Job Hazard Assessment section. This section must address specific hazards that are anticipated throughout the project. Each Site Safety Plan must address, at a minimum:

- Public and pedestrian safety
- Fall protection
- Electrical hazards
- Scaffolding
- Fire protection
- Emergency notification & response
- Housekeeping / debris removal
- Dust control

- Maintenance and protection of traffic
- Trenching and excavating
- Heavy equipment operations
- Material / equipment storage
- Environmental contamination
- Sheeting and shoring
- Alcohol and Drug Abuse Policy

The following additional hazards must be addressed, if applicable, based on the contract safety specifications and/or the results of the JHA (the list is not all-inclusive):

- Basic Personal Protective Equipment
- Compressed Air
- Compressed Gas Cylinders
- Cranes, Derricks and Hoists
- Demolition
- Electrical safety
- Excavations and Trenching
- Fall Protection Floor openings/Stairways
- Fall Protection Guardrails Toe boards etc
- Fall Protection Leading Edge
- Fall Protection Personal Fall Protection Devices
- Fire Protection and Fire Prevention
- Hazard Communication (RIGHT TO KNOW)
- Hazardous Energy & Lock Out / Tag Out
- Housekeeping/Sanitation
- Maintenance and Protection of Traffic (MPT)
- Man Lifts /Aerial Lifts
- Marine Operations
- Motor Vehicle Safety
- Overhead Power lines
- Permit Required Confined Space
- Portable Ladders
- Powered Actuated Tools
- Powered Material Handling Equipment
- Scaffolds Mobile
- Scaffolds Stationary
- Scaffolds Suspended
- Slings
- Steel Erection

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- Welding and Cutting (Hot Work)
- Airborne Contaminants Particulates General
- Asbestos
- Blood borne Pathogens
- Hearing Protection
- Lead in Construction
- Mercury in Construction
- PCB's
- Respiratory Protection
- Silica
- Thermal Stress
- West Nile Virus
- Rodents and Vermin
- Noise Mitigation Plan

Certain DDC programs, such as Job Order Contracting System (JOCS), may not necessarily require Site Safety Plans. The JOCS contractor will be required to submit a Safety Program. In addition, certain DDC Operating Units may establish program or client-specific safety requirements. The contractor's Site Safety Plan must address such program or client specific safety requirements.

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

As part of the construction kick-off meeting, a Site Safety Plan review will be part of the agenda. A QACS representative will participate in this meeting with the contractor prior to the start of the project for the purpose of:

- A. Reviewing the safety issues detailed in the contract.
- B. Reviewing the Site Safety Plan.
- C. Reviewing any new issues or information that was not previously addressed.
- D. Discussing planned inspections and audits of the site by DDC 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 Construction Safety Unit or other designated DDC representative or Consultant during regular, unannounced inspections of the job site. Field Exit Conferences will be held with the RE/CPM, Contractor Superintendents or Safety Representatives.
- B. The RE/CPM will continually monitor the safety and environmental performance of the contractor's employees and work methods. Deficiencies shall be brought to the attention of the contractor's representative on site for immediate correction. The DDC representative will maintain a written record of these deficiencies and forward them to the Construction Safety Unit on a weekly basis. Any critical deficiencies shall be immediately reported to QACS phone# (718) 391-1624 or (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-QACS, or designee will meet with the Contractor's safety representative, the DDC project manager, the RE/CPM, or 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.

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- D. If the deficiencies continue to occur with inadequate attention by the contractor, this shall, among other remedies available, be grounds for default.
- E. The contractor shall inform the Construction Safety Unit and ACCO Insurance and Risk Management Unit of all medical injuries or illnesses that require doctors' treatment resulting from an on-the-job incident within 24 hours of the occurrence. The Construction Safety Unit shall also be immediately informed of all fatalities, catastrophic accidents with more than one employee hospitalized, any injuries to members of the general public and major equipment damage (e.g., property damage, equipment rollovers, loads dropped from crane). QACS shall maintain a record of all contractor injuries and illnesses during the project and provide regular reports to the Agency.
- F. The Construction Safety Unit shall be immediately notified at the start of any NYS-DOL/ NYC-COSH/OSHA/ EPA inspections. The Director of Quality Assurance & Construction Safety shall maintain a log of all contractor OSHA/EPA inspections and citations during the project.

### IX. SAFETY PERFORMANCE EVALUATION

The contractor's safety record, including all DDC 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 shall be a reason to rate a Contractor unsatisfactory which will be reflected in the City's Vendex system and will be considered for future procurement actions as set forth in the City's Procurement Policy Board Rules.

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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 <a href="https://www.dep.nyc.gov">www.dep.nyc.gov</a> 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 seven (7) **Days** after the commencement of such condition, the **Contractor** must notify the **Engineer** 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.

- 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, and every thirty (30) Days thereafter for as long as such damages are being incurred, the Contractor shall submit to the Commissioner verified written statements of the details and the amounts of such damages, together with documentary evidence of such damages, ("statement of delay damages") as further detailed in Article 11.6. 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. On failure of the Contractor to strictly comply with all of 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 arising under or by reason of this Contract shall not be different from or in excess of the statements made and documentation provided pursuant to this Article 11.
- 11.1.3Within 60 days of submission of the final verified statement of claims pursuant to Article 44, the Commissioner shall make a determination as to whether a compensable delay has occurred and, if so, the amount of compensation due the Contractor. Notwithstanding the above, the Commissioner may make a determination as to whether a compensable delay has occurred at any time after the Contractor's first submission of a statement of delay damages provided, however, that the amount of compensation due to the Contractor will not be determined until the Commissioner determines that the Work is delayed after the date set for substantial completion.
- 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 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 Project 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, 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 Extended delays attributable to the **City** in the review or issuance of change orders, in shop drawing reviews and approvals or as a result of the cumulative impact of multiple change orders, which have a verifiable impact on **Project** costs.
  - 11.4.1.3 The unavailability of the **Site** for an extended period of time that significantly affects the scheduled completion of the **Contract**.

- 11.4.1.4 The issuance by the Engineer of a stop work order relative to a substantial portion of the Work for a period exceeding thirty (30) Days, that was not brought about through any action or omission of the Contractor.
- 11.4.1.5 Differing site conditions 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 by a date earlier than the date of Substantial Completion provided for in Schedule A unless there is a provision in the Contract providing for additional compensation for early completion. No claim may be made for any alleged delay in Substantial Completion of the Work if the work 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.
- 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 generally recognized 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 action 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 amount of additional compensation sought and a breakdown of that amount into categories as described in Article 26.2, subject to the limitations set forth 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 Insurance and bond costs:
  - 11.7.1.5 Extended field office costs:
  - 11.7.1.6 Extended Site overhead; and
  - 11.7.1.7 Extended home office overhead.
- 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 11.7.1.6, and an

additional overhead of five (5%) percent 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:
  - 11.7.3.1Profit, or loss of anticipated or unanticipated profit;
  - 11.7.3.2Consequential damages, including but not limited to interest on monies in dispute, including interest which is paid on such monies, 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;
  - 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 Determinations 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 If the parties agree, pursuant to Article 11.1.3 above, that a compensable delay has occurred and agree on the amount of compensation, payment may be made pursuant to a written change order. Payment pursuant to such change order is subject to pre-audit by the Engineering Audit Officer, and may be post-audited by the Comptroller and/or the Agency.

#### 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 CITY OF NEW YORK STANDARD CONSTRUCTION CONTRACT

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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 the Engineer to issue any 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 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 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 within ten (10) Days of the 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 proposes alternative dates, then, within a reasonable time after receipt, the Engineer, in a written notification to the Contractor, shall approve the Contractor's completion dates or, if they are unable to agree, the Engineer shall establish dates for the completion of each item of Work. If the Contractor neither accepts the dates nor proposes alternative dates within ten (10) Days, the schedule proposed by the Engineer shall be deemed accepted. 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, 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 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 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 inspection if, upon such inspection, the 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 for the purpose of Substantial Completion or Final Acceptance shall be made within ten (10) 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 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 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 shall be made within ten (10) Days after receipt of the Contractor's written request therefor.
- 14.7 Initiation of Inspection by the Engineer: If the Contractor does not request inspection or reinspection of the Work for the purpose of Substantial Completion or Final Acceptance, the 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 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 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 <a href="https://www.nyc.gov/pip.">www.nyc.gov/pip.</a> 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.

<sup>&</sup>lt;sup>1</sup> 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 <a href="www.nyc.gov/pip">www.nyc.gov/pip</a>. Additional assistance with PIP may be obtained by emailing the Financial Information Services Agency Help Desk at <a href="mailto:pip@fisa.nyc.gov">pip@fisa.nyc.gov</a>.

- 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 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 requite 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.
  - 20.4.2In 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.
- 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 CITY OF NEW YORK STANDARD CONSTRUCTION CONTRACT 28 DDC

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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, at <a href="http://www.nyc.gov/html/dob/downloads/rules/1">http://www.nyc.gov/html/dob/downloads/rules/1</a> RCNY 101-08.pdf, the Contractor shall provide Commercial General Liability Insurance with limits of at least those required by 1 RCNY section 101-08. 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 with coverage at least as broad as the most recent edition of ISO Forms CG 20 10, CG 20 37, and CG 20 26, as applicable; (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 Broker" 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.
  - 26.1.1For 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.
  - 26.1.2If 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) x (HP rating) x (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) x (HP rating) x (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 CITY OF NEW YORK

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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 CITY OF NEW YORK
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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.

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 CITY OF NEW YORK

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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 for as long as such damages are incurred, 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.

- 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 CITY OF NEW YORK

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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 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.

# **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

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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 CITY OF NEW YORK

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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 CITY OF NEW YORK

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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 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 CITY OF NEW YORK

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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 CITY OF NEW YORK

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- (\$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 asses, 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 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 \_\_\_\_\_\_.

### **ARTICLE 75. COMPENSATION TO BE PAID TO CONTRACTOR**

#### **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 CITY OF NEW YORK

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which the **Agency** may waive the requirements of this Article 76 for payment 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. 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 A SCHEDULE B SUBMITTED BY (SCHEDULE B, PART II). 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 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.
- Where an M/WBE Utilization Plan has been submitted, the Contractor shall, within 30 days of 5. 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

DDC

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).

- 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 <a href="mailto:poped@ddc.nyc.gov">poped@ddc.nyc.gov</a> 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, 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.

IN WITNESS WHEREOF, the Commissioner, on behalf of the City of New York, and the Contractor, have executed this agreement in quadruplicate, two parts of which are to remain with the Commissioner, another to be filed with the Comptroller of the City, and the fourth to be delivered to the Contractor.

	THE CITY OF NEW YORK	
	By: aubilan	
	Deputty Commissioner	
	CONTRACTOR: C.A.C. Industries, In	<u>،</u> ر
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	By:	
	(Member of Firm or Officer of Corporation)	
	Title: JUSI SENT	
	Title: #1081 & GOT	
(Where Contractor is a Corporation, add): Attest:		
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Secretary		
V	(Seal)	
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### ACKNOWLEDGEMENT OF PRINCIPAL, IF A CORPORATION

State of Wew York— County of County of ss:
On this 25TH day of NOV, 2014, before me personally came U1 CHARLA CUP ASSO
to me known who, being by me duly sworn did depose and say that he resides at 45 C 12005
that he is the DICESTECOT
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.
and directors of said corporation, and that he signed his name district of
DIANE C. DERIN
Notary Public, State of New York
Qualified in Queens County Commission Expires August 14, 2017  Notary Public or Commissioner of Deeds
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ACKNOWLEDGEMENT OF PRINCIPAL, IF A PARTNERSHIP
State of Ss:
On this day of,, before me personally appeared
to me known, and known to me to be one of the members of the firm of
acknowledged to me that he executed the same as and for the act and deed of said firm.
Notary Public or Commissioner of Deeds
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ACKNOWLEDGEMENT OF PRINCIPAL, IF AN INDIVIDUAL
State 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.
and deknow reaged that he executed the same.
Notary Public or Commissioner of Deeds
Tromy I dolle of Commissioner of Books

CITY OF NEW YORK DDC

STANDARD CONSTRUCTION CONTRACT December 2013

### ACKNOWLEDGEMENT BY COMMISSIONER

State of New Yolk County of Queens ss:
On this 26 day of NIN, 2014 before me personally came File Mg Cha (19ne
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

VICTORIA AYO-VAUGHAN
Netary Public, State of New York
Registration #01AY5014042
Qualified in Queens County
Commission Expires July 15,

### AUTHORITY

# 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 beauty continued by the artifact of the world averaging and symplical required by the within
York, it is hereby certified that the estimated cost of the work, materials and supplies required by the within Contract, amounting to
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Seventy One Thousand, Sixty Nine Dollars 38/100
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is chargeable to the fund of the Department of Design and Construction entitled Code
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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

BOND NO. 82386331

PERFORMANCE BOND #2 (Page 1)

### PERFORMANCE BOND #2

KNOW ALL PERSONS BY THESE PRESENTS:, That we,
C.A.C. Industries, Inc.
54-08 Vernon Blvd., Long Island City, NY 11101
hereinafter referred to as the "Principal," and,
Federal Insurance Company
15 Mountain View Road, Warren, NJ 07059
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
Seven Million Four Hundred Seventy One Thousand Sixty Nine and 38/100
(\$ 7,471,069.38 ) 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
HWQ985 Roadway Improvements in Shore Road from 36th Avenue to West Drive
Borough of Queens.
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

CITY OF NEW YORK

STANDARD CONSTRUCTION CONTRACT
December 2013

shall fully reimburse and repay the City for all outlay and expense which the City may incur in making

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 (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

20th	day of	November	<b>20</b> <sup>1</sup>	4
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PERFORMANCE BOND #2 (Page 4)

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		and that h	e/she is the individue	il whose name is
subscribed to the within instrument, said individu	instrument and ack al executed the ins	nowledged to me that	by his/her signature	on the
•		•	•	
Notare Public or Commi	-2		*	
Notary Public or Commi	shoper of Deeds	, -	•	•
representative of Principal	wer of Amorney or ( l or Surety; (c) a do deate of authority of	other certificate of anii lly certified extract from fits apput, officer or a	mity where bond is a	respective parties; (b) appropriate exceuted by agent, officer or other ions of Surety under which Power ed, and (d) certified copy of latest
		****	≱	•
ř	Affix Actor	wledgments and Jus	•	••
CITY OF NEW YORK	I MILLA FIGHT	wreathuring sixt 102	ПОПРСТО ПОПЕЗІЛЬ А ЛОКАТО	S. Metro i catori occurs :
DDC		99	SIMOARDC	ONSTRUCTION CONTRACT December 2013



Chubb Surety

POWER OF ATTORNEY

Federal Insurance Company **Vigilant Insurance Company Pacific Indemnity Company** 

Attn: Surety Department 15 Mountain View Road Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Thomas Bean, George O. Brewster, Colette R. Chisholm, Susan Lupski, Gerard S. Macholz, Camille Maitland, Robert T. Pearson and Rita Sagistano of Uniondale, New York

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than ball bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations. In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seats on this 24 day of September, 2014.







STATE OF NEW JERSEY

County of Somerset

On this 24th day of September, 2014 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By. Laws and in deponent's presence.

Notarial Sea



KATHERINE J. ADELAAR NOTARY PUBLIC OF NEW JERSEY No. 2316685 Commission Expires July 16, 2019

CERTIFICATION

Extract from the By- Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, 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 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 upon the Company with respect to any bond or undertaking to which it is attached."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies")

- the foregoing extract of the By- Laws of the Companies is true and correct.
- the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and
- the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this NOV 2 0 2014







IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

### ACKNOWLEDGMENT OF SURETY COMPANY

STATE OF New York } COUNTY OF Nassau }	SS
to me know, who, being by me NASSAU COUNTY, State of N. FEDERAL INSURANCE COMPANY executed the above instrument; seal affixed to said instrument is the Board of Directors of said colike order; and the affiant did fur of the State of New York, has, put of New York, issued to FEDER certificate of qualification evisufficiency under any law of the	duly sworn, did depose and say; that he/she resides in EWYORK, that he/she is the Attorney-In-Fact of the

Notary Public

GRACE ACKERSON
Notary Public, State of New York
Nassau County
Lic. #01AC6111590
Term Expires June 14, 2016

NY acknowledgment

### FEDERAL INSURANCE COMPANY

### STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

**DECEMBER 31, 2012** 

(in thousands of dollars)

LIABILITIES

	AND
ASSETS	SURPLUS TO POLICYHOLDERS
Cash and Short Term Investments \$ 402,323	Outstanding Losses and Loss Expenses \$ 12,627,388
United States Government, State and	Unearned Premiums
Municipal Bonds	Ceded Reinsurance Premiums Payable 364,197
Other Bonds	Provision for Reinsurance
Stocks	Other Liabilities
Other Invested Assets	
On of 1170000 7 60000 11111111111111111111111	
TOTAL INVESTMENTS 17,392,372	TOTAL LIABILITIES 17,405,652
1017 Hear Office and Company of the	
Investments in Affiliates:	
Chubb Investment Holdings, Inc	Capital Stock 20,980
	Paid-In Surplus
Chubb Insurance Investment Holdings Ltd 1,228,075	Unassigned Funds 10,713,227
Executive Risk Indemnity Inc	
CC Canada Holdings Ltd	10 044 016
Chubb Insurance Company of Australia Limited 517,597	SURPLUS TO POLICYHOLDERS 13,841,016
Great Northern Insurance Company	
Chubb European Investment Holdings SLP 265,490	
Vigilant Insurance Company 246,766	
Other Affiliates	
Premiums Receivable 1,494,693	
Other Assets	
	TOTAL LIABILITIES AND SURPLUS
TOTAL ADMITTED ASSETS \$ 31,246,668	TO POLICYHOLDERS \$ 31,246,668
and operated the purposed of the property of the contract of t	Apply and the same state or in the specific or in the state of the same state or in the specific or in the state of the same state or in the specific or in the state of the same state or in the specific or in the state of the same state or in the state of the same state or in the state of the same state or in the same state or in the state of the s
Investments are valued in accordance with requirement	s of the National Association of Insurance Commissioners.
Investments with a carrying value of \$430,688,714 are	deposited with government authorities as required by law.
State, County & City of New York, - ss:	
Yvonne Baker, Assistant Secretary	
being duly sworn, deposes and says that the foregoing State	tement of Assets, Liabilities and Surplus to Policyholders of sai
Federal Insurance Company on December 31, 2012 is true a	and correct and is a true abstract of the Annual Statement of sai
Company as filed with the Secretary of the Treasury of the L	Inited States for the 12 months ending December 31, 2012.
Subscribed and sworn to before me	
this March 31, 2013.	11
and march of, 2010.	Unan el Gallo-
$\bigcap_{i \in \mathcal{A}} \mathcal{A}_i$	7000
Worothy Baker No	DOROTHY M. BAKER Assistant Secretary
No No Nig No Nie	otary Public, State of New York
Notary Public	
	No. 31-4904994
· · · · · · · · · · · · · · · · · · ·	Qualified in New York County mmission Expires Sept. 14, 2013

BOND NO. 82386331

PAYMENT BOND (Page 1)

### PAYMENT BOND

	ALL PERSONS BY	THESE PRESE	ENTS, That we,		
	ustries, Inc.				
54-08 Vernor	n Blvd., Long	Island Cit	y, NY 11101		
ereinafier referre	d to as the "Principa	I", and	,		•
Federal Insu	urance Company	•		,	
15 Mountain	View Road, Wa	rren; NJ 0	7059		
		***************************************	The second secon	·	
•					
	n Four Hundred	bevency of	ie illousaliu 5.	xcy wine an	.a 38/100
7,471,069.38	Poliars, lawful mone de, we, and each of	ey of the United	States, for the payr	nent of which sai	d sum of money
nd truly to be man seigns, jointly and	severally, firmly by	these presents			
WHEREAS	severally, firmly by S, the Principal is aby Improvements	out to cuter, or	has entered, into a (	Contract in writing	g with the City fo
WHEREAS	severally, firmly by S, the Principal is ab y Improvements	out to cuter, or	has entered, into a (	Contract in writing	g with the City fo
WHEREAS	severally, firmly by S, the Principal is ab y Improvements	out to cuter, or	has entered, into a (	Contract in writing	g with the City fo

persons so engaged who perform the work of laborers or mechanics at or in the vicinity of the site CITY OF NEW YORK DDC

STANDARD CONSTRUCTION CONTRACT December 2013

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

Wages and compensation for labor performed and services rendered by all persons engaged in

successors and assigns shall promptly pay or cause to be paid all lawful claims for

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 bereon 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 rendexed, 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 assignces, Subcontractors, and other transferces shall have the same effect as to said Surety (Sureties) as though done or omitted to be done or in relation to said Principal.

CITY OF NEW YORK

IN WITNESS WHERBOF, the Principal and the Surety (Sureties) have hereunto set their hands

PAYMENT BOND (Page 3)

ical)		C.A.C. Industries, Inc. (L.S.)	)
·		Principal	
		Ву:	
1		Todaya Jan Agamaya	
eal)		Federal Insurance Company	<i>;</i> .
		By: Slesan Kenssi	
•		Susan Lupski, Attorney-In-F	act
;al)	•		
• • • • • • • • • • • • • • • • • • • •		Surety	
		Ву:	
al)		· .	
·		Surety	
		Ву	
al)			
. * •		Surety	
		,	

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 Courtest.

CITY OF NEW YORK DDC

STANDARD CONSTRUCTION CONTRACT
December 2013

PAYMENT BOND (Page 4)

ACKNODER TERM	<b></b>		•		JAID (Fage 4)
ACKNOWLEDGMEN	IT OF PRINCIPAL	L, IF A CORI	PORATION		
State of NEW /	County of	· QUE	US ss.	,	
On this day of	ON ZULL	ha£	M	10 Harl	A pon
to me known, who, being	by me duly sworn	did depose an	d say that he resides	at 15 E7	71. C/J),
the corporation describe	d in and which	that he is	the	UGUF	of
corporation; that one of	the seals affired to	the tore	going ansurment; the	it he knows the	e scal of said
the directors of said corp	oration, and that he	sioned his nar	of is such seal; that if	was so affixed	d by order of
		/// / // 4	ac uncaceto dy paris tord	er.	•
	4		Meller	<b>C</b> ;	DIANE C DESIGNATION OF THE PROPERTY PARTY SERVICES AND A SERVICE AND A SERVICES AND A SERVICE AND A SERVICE AND A SERVICE AND A SERVICES AND A SERVICE A
	Note	ary Public or (	onunissioner of Dee	ds Commissi	Sin Expires April 1
ACKNOWLEDGMENT	FOF PRINCIPAL,	, IF A PART	NERSHIP		an expense August
State of	Commerce				
	County of _		38:		
On this day of to me known, and known	, b	efore me nero	Mally annewad		•
to me known, and known	to me to be one of the	he members o	f the firm of		
	december 4		***************************************		and he
acknowledged to me that I	he executed the sam	e as and for th	e act and deed of sale	d firm.	, and 115
•	. •				. *
	<b>.</b> •,				
	Notar	or Public or C	ommissioner of Deed		
A CITTO TO THE TOTAL THE T				8	
ACKNOWLEDGMENT	OF PRINCIPAL,	IF AN INDIV	IDUAL	1	
State of	<b>*</b>				
	County or		28:		••
On this day of	. he	fore me neco	207794 0000 0000 4		
		on described	in and the executed	*	
nd acknowledged that he	executed the same.			me megonig	instrument;
•		•		•	
				,	
	Notes	Thehlie and		,	•
•			mmissioner of Deeds		
Each executed bond arties; (b) appropriate duly executed by agent, office	should be accompa	anied by: (a)	appropriate acknowle	dgments of the	respective
executed by agent, office y-Laws or resolutions of	r or other represent	ative of Princ	ingl or Surety (a)	e of authority	where bond
y-Laws or resolutions of gent, officer or representat	Surety under which	h Power of A	Homev or other con	iffects of such	xtract from
gent, officer or representati sets and liabilities of Sure	ive was issued, and ty.	(d) certified	copy of latest publish	ed financial st	atement of
		( 宋 * * * * * * *			
A A	ffix Acknowledgm	ents and Justii	fication of Sureties.	•	
TY OF NEW YORK	•		,		•
DDC		103	STANDARD CONS	TRUCTION CO cmber 2013	NTRACT



Chubb Surety

POWER OF ATTORNEY

Federal Insurance Company **Vigilant Insurance Company Pacific Indemnity Company** 

Attn: Surety Department 15 Mountain View Road Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Thomas Bean, George O. Brewster, Colette R. Chisholm, Susan Lupski, Gerard S. Macholz, Camille Maitland, Robert T. Pearson and Rita Sagistano of Unlondale, New York

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than ball bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations. In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seats on this 24 day of September, 2014.







STATE OF NEW JERSEY

County of Somerset

On this 24th day of September, 2014 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By. Laws and in deponent's presence.

Notarial Seal



KATHERINE J. ADELAAR NOTARY PUBLIC OF NEW JERSEY No. 2316685 Commission Expires July 16, 2019

CERTIFICATION

Extract from the By- Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, 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 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 upon the Company with respect to any bond or undertaking to which it is attached."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies")

the foregoing extract of the By- Laws of the Companies is true and correct.

the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and

(iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this  $NOV\ 2\ 0\ 2014$ 







IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3493 Fax (908) 903-3656 e-mail: surety@chubb.com

#### ACKNOWLEDGMENT OF SURETY COMPANY

COUNTY OF nassau}
On this NOVEMBER 20, 2014 before me personally came. SUSAN LUPSKI
to me know, who, being by me duly sworn, did depose and say; that he/she resides in
NASSAU COUNTY , State of NEW YORK , that he/she is the Attorney-In-Fact of the
FEDERAL INSURANCE COMPANY the corporation described in which
executed the above instrument; that he/she knows the seal of said corporation; that the
seal affixed to said instrument is such corporate seal; that is was so affixed by order of
the Board of Directors of said corporation; and that he/she signed his/her name thereto by
like order; and the affiant did further depose and say that the Superintendent of Insurance
of the State of New York, has, pursuant to Section 1111 of the Insurance Law of the State
of New York, issued to FEDERAL INSURANCE COMPANY (Surety) his/her
certificate of qualification evidencing the qualification of said Company and its
sufficiency under any law of the State of New York as surety and guarantor, and the

propriety of accepting and approving it as such; and that such certificate has not been

Notary Public

GRACE ACKERSON
Notary Public, State of New York
Nassau County
Lic. #01AC6111590
Term Expires June 14, 2016

NY acknowledgment

revoked.

STATE OF .... New York ....}

## FEDERAL INSURANCE COMPANY

## STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

**DECEMBER 31, 2012** 

(in thousands of dollars)

LIABILITIES

		AND	
ASSETS		SURPLUS TO POLICYHOLI	DERS
ASSETS		301	J
Cash and Short Term Investments	\$ 402,323	Outstanding Losses and Loss Expenses	\$ 12,627,388
United States Government, State and	•	Unearned Premiums	
Municipal Bonds	9,901,519	Ceded Reinsurance Premiums Payable	
Other Bonds	4,595,536	Provision for Reinsurance	
Stocks	811,166	Other Liabilities	
Other Invested Assets	1,681,828	Ottos Eldbillioo	
Other invested Assets	1,001,020		
		·	
TOTAL INVESTMENTS	17,392,372	TOTAL LIABILITIES	. 17,405,652
Investments in Affiliates:			
Chubb Investment Holdings, Inc.	3,352,969	Capital Stock	. 20,980
Pacific Indemnity Company	2,496,198	Paid-In Surplus	
Chubb Insurance Investment Holdings Ltd	1,228,075	Unassigned Funds	
Executive Risk Indemnity Inc	1,100,637		
CC Canada Holdings Ltd	758,892		
		SURPLUS TO POLICYHOLDERS	. 13,841,016
Chubb Insurance Company of Australia Lim		SUMPLUS TO FOLIOTHOLDERO	. 10,041,010
Great Northern Insurance Company	438,592		
Chubb European Investment Holdings SLP	265,490		
Vigilant Insurance Company	246,766		
Other Affiliates	429,458		
Descriptions of Description 14	4 40 4 000		
Premiums Receivable	1,494,693		
Other Assets			
		TOTAL LIARILITIES AND SURPLUS	
Other Assets	1,524,929	TOTAL LIABILITIES AND SURPLUS	\$ 31.246.668
TOTAL ADMITTED ASSETS	1,524,929 \$ 31,246,668	TO POLICYHOLDERS	
TOTAL ADMITTED ASSETS	1,524,929 \$ 31,246,668 with requirements		missioners.
TOTAL ADMITTED ASSETS	1,524,929 \$ 31,246,668 with requirements	TO POLICYHOLDERSof the National Association of Insurance Comi	missioners.
TOTAL ADMITTED ASSETS	1,524,929 \$ 31,246,668 with requirements	TO POLICYHOLDERSof the National Association of Insurance Comi	missioners.
TOTAL ADMITTED ASSETS	1,524,929 \$ 31,246,668 with requirements	TO POLICYHOLDERSof the National Association of Insurance Comi	missioners.
TOTAL ADMITTED ASSETS	1,524,929 \$ 31,246,668 with requirements	TO POLICYHOLDERSof the National Association of Insurance Comi	missioners.
TOTAL ADMITTED ASSETS	1,524,929  \$ 31,246,668  with requirements 130,688,714 are d	TO POLICYHOLDERS of the National Association of Insurance Comileposited with government authorities as require	missioners. red by law.
TOTAL ADMITTED ASSETS	1,524,929  \$ 31,246,668  with requirements 130,688,714 are displayed as a stant Secretary	TO POLICYHOLDERS of the National Association of Insurance Complete on the National Association of Insurance Complete of the Federal Insurance Complete of the Federal Insurance Complete of the Federal Insurance Comp	missioners. red by law.
TOTAL ADMITTED ASSETS	1,524,929  \$ 31,246,668  with requirements 130,688,714 are desired.	TO POLICYHOLDERS  of the National Association of Insurance Complete with government authorities as required of the Federal Insurance Complete in the Federal Insurance Com	missioners. red by law.  cany cyholders of sa
TOTAL ADMITTED ASSETS	\$ 31,246,668  with requirements 30,688,714 are destant Secretary are foregoing States 31, 2012 is true as	of the National Association of Insurance Complete with government authorities as required of the Federal Insurance Complete of Assets, Liabilities and Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and Surplus to Pol	missioners. red by law.  cany cytholders of sa
TOTAL ADMITTED ASSETS	\$ 31,246,668  with requirements 30,688,714 are destant Secretary are foregoing States 31, 2012 is true as	of the National Association of Insurance Complete with government authorities as required of the Federal Insurance Complete of Assets, Liabilities and Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and is a true abstract of the Annual Surplus to Political Correct and Surplus to Pol	missioners. red by law.  cany cytholders of sa
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## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/21/2014

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 EPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

MPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must 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 noider in neu of suc	n endorsement(s).	LOOVITAGE			
PRODUCER Alliant Insurance Services, Inc. 333 Earle Ovington Blvd. Suite 700 Uniondale NY 11553	4	CONTACT Gregory Yovino			
		PHONE (A/C, No, Ext): 516-414-8613	FAX (A/C, No): 8	377-308-1070	
		E-MAIL ADDRESS: gyovino@alliant.com			
		INSURER(S) AFFORDING COVERAGE		NAIC#	
		INSURER A: Travelers Indemnity Compa	ny	25658	
INSURED C.A.C. Industries Inc. 54-08 Vernon Blvd. Long Island City NY 11101		INSURER B: Travelers Property Casualty	Co of A	25674	
		INSURER c : Starr Indemnity & Liability Company			
		INSURER D: Indian Harbor Insurance Company		36940	
		INSURER E : Aspen American Insurance	Company	43460	
		INSURER F:			
COVERAGES	CERTIFICATE NUMBER: 1038473600	) DEVISIO	AL AHIMDED.		

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.

ŧ	INSR ADDLISUBRI POLICY FEE POLICY FEE POLICY FEE POLICY FEE								
INSR LTR		TYPE OF INSURANCE	INSD		POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s
Α	х	COMMERCIAL GENERAL LIABILITY			VTC2KCO828K6241IND14	6/29/2014	6/29/2015	EACH OCCURRENCE	\$1,000,000
		CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$300,000
	Χ	Contractual Liab						MED EXP (Any one person)	\$10,000
								PERSONAL & ADV INJURY	\$1,000,000
	GEN	I'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$2,000,000
		POLICY X PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$2,000,000
L		OTHER:							\$
	AUT	OMOBILE LIABILITY			VTJCAP828K6265TIL14	6/29/2014	6/29/2015	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	Х	ANY AUTO					-	BODILY INJURY (Per person)	\$
1		ALL OWNED SCHEDULED AUTOS AUTOS						BODILY INJURY (Per accident)	\$
	Х	HIRED AUTOS X NON-OWNED AUTOS			•	A STATE OF THE STA		PROPERTY DAMAGE (Per accident)	\$
									\$
В	Х	UMBRELLA LIAB X OCCUR			VTSMJCUP828K6253TiL14	6/29/2014	6/29/2015	EACH OCCURRENCE	\$5,000,000
l		EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$5,000,000
		DED RETENTION\$							\$
		KERS COMPENSATION EMPLOYERS' LIABILITY						PER OTH- STATUTE ER	
	ANY	PROPRIETOR/PARTNER/EXECUTIVE CER/MEMBER EXCLUDED?	N/A					E.L. EACH ACCIDENT	\$
	(Man	idatory in NH)						E.L. DISEASE - EA EMPLOYEE	\$
	DES	s, describe under CRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$
C D E	Prof	ess Liability essional Liability tents & Equipment			1000020990 CPL7420540 IMAEG5Q14	6/29/2014	6/29/2015 6/29/2015 6/29/2015	Each Act/Aggregate	\$10,000,000 \$1,000,000 Equip: \$13,954,147
						5.25.20	5.25.25 (0	7 .,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: FMS ID: HWQ985 DDC PIN: 8502013HW0061C E-PIN: 85014B0067001

Roadway Improvements in Shore Road from 36th Avenue to West Drive - Borough of Queens

Certificate holder and The City of New York including its officials and employees are included as Additional Insured as respects Liability arising out of work performed by the Named Insured. The insurance provided shall be primary and any other insurance maintained by the Additional Insured is excess and non-contributory. Waiver of Subrogation applies as required by contract.

CERTII	FICATE HOLDER	CANCELLATION
	New York City Department of Design & Construction 30-30 Thomson Avenue	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	Long Island City NY 11101	AUTHORIZED REPRESENTATIVE
		© 1988 2014 ACOPD COPPORATION All rights reserved

Project ID.: HWQ985

# SCHEDULE A (GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 – INSURANCE)

## PART III. BROKER'S CERTIFICATION

Pursuant to Article 22.3.3 of the Contract, every Certificate of Insurance must be accompanied by either the following certification by the broker setting forth the following text and required information and signatures or certified copies of all policies referenced in the Certificate of Insurance.

## CERTIFICATION BY BROKER

The undersigned insurance broker represents to the City of New York that the attached Certificate of Insurance is accurate in all material respects, and that the described insurance is effective as of the date of this Certification.

	Alliant Insurance Services, Inc.
	[Name of broker (typewritten)]
	333 Earle Ovington Blvd., Suite 700 Uniondale, NY 11553
	[Address of broker (typewritten)]
	soderwald@alliant.com
	[Email address of broker (typewritten)]
	516-414-8900 / 877-308-1070
	[Phone number/Fax number of broker (typewritten)]
	[Signature of authorized official or broker]
	Sharon Oderwald, Account Manager
	[Name and title of authorized official (typewritten)]
State of New York	
County of Nassau ) ss.:	SARAH BASILE NOTARY PUBLIC-STATE OF NEW YORK No. 01BA6226789
Soch Do	Of November 2014 Qualified in Nassau County My Commission Expires August 16, 2018
NOTARY PUBLIC FOR THE STA	TE OF WY

en de la companya de la co

## Phone: (888) 997-3863 CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

^^^^^ 113082726
C.A.C. INDUSTRIES INC
54-08 VERNON BLVD
LONG ISLAND CITY NY 11101

**POLICYHOLDER** 

C.A.C. INDUSTRIES INC 54-08 VERNON BLVD LONG ISLAND CITY NY 11101 CERTIFICATE HOLDER

NEW YORK CITY DEPARTMENT OF DESIGN & CONSTRUCTION 30-30 THOMSON AVENUE LONG ISLAND CITY NY 11101

POLICY NUMBER G 1394 246-1 CERTIFICATE NUMBER 222098 PERIOD COVERED BY THIS CERTIFICATE 06/29/2014 TO 06/29/2015

DATE 11/24/2014

THIS IS TO CERTIFY THAT THE POLICYHOLDER NAMED ABOVE IS INSURED WITH THE NEW YORK STATE INSURANCE FUND UNDER POLICY NO. 1394 246-1 UNTIL 06/29/2015, COVERING THE ENTIRE OBLIGATION OF THIS POLICYHOLDER FOR WORKERS' COMPENSATION UNDER THE NEW YORK WORKERS' COMPENSATION LAW WITH RESPECT TO ALL OPERATIONS IN THE STATE OF NEW YORK, EXCEPT AS INDICATED BELOW, AND, WITH RESPECT TO OPERATIONS OUTSIDE OF NEW YORK, TO THE POLICYHOLDER'S REGULAR NEW YORK STATE EMPLOYEES ONLY.

IF SAID POLICY IS CANCELLED, OR CHANGED PRIOR TO 06/29/2015 IN SUCH MANNER AS TO AFFECT THIS CERTIFICATE, 10 DAYS WRITTEN NOTICE OF SUCH CANCELLATION WILL BE GIVEN TO THE CERTIFICATE HOLDER ABOVE. NOTICE BY REGULAR MAIL SO ADDRESSED SHALL BE SUFFICIENT COMPLIANCE WITH THIS PROVISION. THE NEW YORK STATE INSURANCE FUND DOES NOT ASSUME ANY LIABILITY IN THE EVENT OF FAILURE TO GIVE SUCH NOTICE.

THIS POLICY DOES NOT COVER THE SOLE PROPRIETOR, PARTNERS AND/OR MEMBERS OF A LIMITED LIABILITY COMPANY.

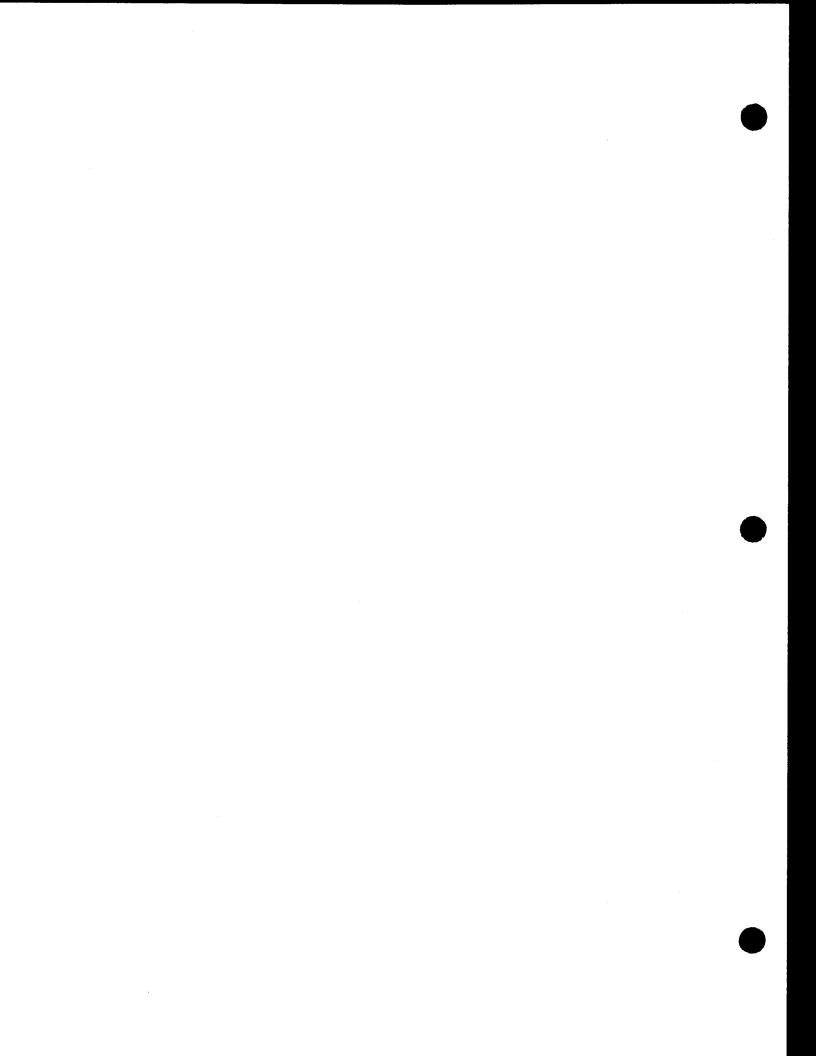
THIS CERTIFICATE DOES NOT APPLY TO THOSE JOB SITES WHICH ARE COVERED BY OTHER INSURANCE AND ARE SPECIFICALLY EXCLUDED BY ENDORSEMENT.

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS NOR INSURANCE COVERAGE UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICY.

NEW YORK STATE INSURANCE FUND

DIRECTOR, INSURANCE FUND UNDERWRITING

This certificate can be validated on our web site at https://www.nysif.com/cert/certval.asp or by calling (888) 875-5790 VALIDATION NUMBER: 608963622



## STATE OF NEW YORK WORKERS' COMPENSATION BOARD

#### CERTIFICATE OF INSURANCE COVERAGE UNDER THE NYS DISABILITY BENEFITS LAW

#### PART 1. To be completed by Disability Benefits Carrier or Licensed Insurance Agent of that Carrier 1a. Legal Name and Address of Insured (Use street address only) 1b. Business Telephone Number of Insured C A C INDUSTRIES INC 1c. NYS Unemployment Insurance Employer Registration Number of Insured 54 08 VERNON BLVD. LONG ISLAND CITY, NY 11101 1d. Federal Employer Identification Number of Insured or Social Security Number 11-3082726 2. Name and Address of the Entity Requesting Proof 3a. Name of Insurance Carrier of Coverage (Entity Being Listed as the Certificate Holder) WESCO INSURANCE COMPANY New York City Department of Design & Construction 3b. Policy Number of entity listed in box "1a.": 30-30 Thomson Avenue LONG ISLAND CITY, NY 11101 0136443 3c. Policy effective period: 9/3/2014 to 12/31/2015 4. Policy covers: a. All of the employer's employees eligible under the New York Disability Benefits Law b. $\square$ Only the following class or classes of the 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 Benefits insurance coverage as described above. Koth lan Lilia Date Signed 11/24/2014 By (Signature of insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier) Telephone Number \_ Vice President \_ Title IMPORTANT: If box "4a" is 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" is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the Disability Benefits Law. It must be mailed for completion to the Workers' Compensation Board, DB Plans Acceptance Unit, 20 Park Street, Albany, New York 12207. PART 2. To be completed by NYS Workers' Compensation Board (Only if box "4b" 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 Benefits Law with respect to all of his/her employees. Date Signed (Signature of NYS Workers' Compensation Board Employee) \_\_\_\_\_ Title

Please Note: Only insurance carriers licensed to write NYS disability benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. Insurance brokers are NOT authorized to issue this form.

DB-120.1 (5-06)

#### Additional Instructions for Form DB-120.1

By signing this form, the insurance carrier identified in box "3" on this form is certifying that it is insuring the business referenced in box "1a" for disability benefits under the New York State Disability Benefits Law. The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed as the certificate holder in box "2". This Certificate is valid for the earlier of one year after this form is approved by the insurance carrier or its licensed agent, or the policy expiration date listed in box "3c".

Please Note: Upon the cancellation of the disability benefits 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 NYS Disability Benefits Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Disability Benefits Law.

#### **DISABILITY BENEFITS LAW**

#### §220. Subd. 8

- (a) The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in employment as defined in this article, and not withstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits for all employees has been secured as provided by this article. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any disability benefits to any such employee if so employed.
- (b) The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in employment as defined in this article, and notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits for all employees has been secured as provided by this article.

#### LABOR LAW §220 PREVAILING WAGE SCHEDULE

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 Labor Law §220 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 contracts.

Contracting agencies anticipating doing work which requires the employment of a trade or classification not included in this schedule must request the Comptroller to establish a proper classification for the work pursuant to Labor Law §220 (3-a) (a). The prevailing rate schedule as promulgated by the Comptroller, must, in compliance with law, be annexed to and form part of the contract.

Contractors are solely responsible for maintaining original payroll records which delineate, among other things, the hours each employee worked within a given classification. Contractors using rates and/or classifications not promulgated by the Comptroller do so at their own risk. Additionally, prior to bid, Agency Chief Contracting Officers must contact the Bureau of Labor Law when the need arises for a work classification not published in this schedule.

The appropriate schedule of prevailing wages and benefits must be posted at all public work sites pursuant to Labor Law §220 (3-a) (a).

This schedule is applicable for work performed during the effective period, unless otherwise noted. You will be notified of any changes to this schedule by addenda published on our web site at www.comptroller.nyc.gov. The rate of wages and supplemental benefits to be paid or provided are those that prevail at the time the work is being performed. Preliminary schedules for future one-year periods are published annually in the City Record on or about June 1<sup>st</sup> of each succeeding year. Final schedules are published on or about July 1<sup>st</sup> in the City Record and on our web site at www.comptroller.nyc.gov.

The Comptroller's Office has attempted to include all overtime, shift and night differential, Holiday, Saturday, Sunday or other premium time work. However, this schedule does not set forth every prevailing practice with respect to such rates with which employers must comply. All such practices are nevertheless part of the employer's prevailing wage obligation and contained in the collective bargaining agreements of the prevailing wage unions. These collective bargaining agreements are available for inspection by appointment. Requests for appointments may be made by calling (212) 669-4443, Monday through Friday between the hours of 9 a.m. and 5 p.m.

Answers to questions concerning prevailing trade practices may be obtained from the Classification Unit by calling (212) 669-7974. Please direct all other compliance issues to: Bureau of Labor Law, Attn: Wasyl Kinach, P.E., Office of the Comptroller, 1 Centre Street, Room 1122, New York, N.Y. 10007; Fax (212) 669-4002.

Prevailing rates and ratios for apprentices are attached to this schedule in the Appendix. 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 New York State Department of Labor, may be employed on a public work project. Workers who are not journey ersons or not registered apprentices pursuant to Labor Law §220 (3-e) may not be substituted for apprentices and must be paid as journey persons.

Contractors are advised to review the applicable Collective Bargaining Agreements and the Comptroller's Prevailing Wage Schedule before bidding on Public Work. If there are any questions concerning prevailing wages, benefits, overtime, Holiday pay, shift differentials or any prevailing practice, please contact this office.

Public Work construction, reconstruction, demolition, excavation, rehabilitation, repair, renovation, alteration, or improvement contracts 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 http://www.nyc.gov/html/mocs/html/vendors/pla.shtml.

All the provisions of Labor Law section 220 remain applicable to PLA work including, but not limited to, the enforcement of prevailing wage requirements by the Comptroller; however, we will enforce shift, premium, overtime and other non-standard rates as they appear in a project's prenegotiated labor agreement.

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 <u>not</u> preclude a finding against the contractor of prevailing wage violation.

In order to meet their obligation to provide prevailing supplemental benefits to each covered employee, employers must either:

- 1) Provide bona-fide 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 benefits and wage supplements which cost the employer no less than the prevailing supplemental benefits rate in total.

Particular attention should be given to the supplemental benefits requirement. Although in most instances the payment or provision for supplemental benefits is for each hour worked, some classifications require the payment or provision of supplemental benefits for each hour paid. Consequently, some prevailing practices require benefits to be purchased at the overtime, shift differential, Holiday, Saturday, Sunday or other premium time rate.

Benefits are paid for **EACH HOUR WORKED** unless otherwise noted.

Wasyl Kinach, P.E.
Director of Classifications
Bureau of Labor Law

## 220 SCHEDULE OF PREVAILING WAGES AND SUPPLEMENTAL BENEFITS ADDENDUM EFFECTIVE PERIOD JANUARY 20, 2014 THROUGH JUNE 30, 2014

#### **List of Amended Classifications**

- 1. ASBESTOS HANDLER
- 2. BRICKLAYER
- 3. CARPENTER BUILDING COMMERCIAL
- 4. CEMENT & CONCRETE WORKER
- 5. CORE DRILLER
- 6. ELECTRICIAN
- 7. FLOOR COVERER
- 8. HEAT AND FROST INSULATOR
- 9. HOUSE WRECKER
- 10. IRON WORKER ORNAMENTAL
- 11. IRON WORKER STRUCTURAL
- 12. MARBLE MECHANIC
- 13. MASON TENDER
- 14. MASON TENDER (INTERIOR DEMOLITION WORKER)
- 15. MOSAIC MECHANIC
- 16. PAINTER STRUCTURAL STEEL
- 17. PLASTERER
- 18. PLASTERER TENDER
- 19. PLUMBER
- 20. PLUMBER (MECHNICAL EQUIPMENT AND SERVICE)
- 21. PLUMBER (RESIDENTIAL RATES FOR 1, 2 AND 3 FAMILY HOME CONSTRUCTION)

A constant to the

- 22. PLUMBER: PUMP & TANK
- 23. ROOFER
- 24. STEAMFITTER
- 25. STEAMFITTER REFRIGERATION AND AIR CONDITIONER
- 26. STONE MASON SETTER
- 27. TILE FINISHER
- 28. TILE LAYER SETTER

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CEMENT & CONCRETE WORKER	
CEMENT MASON	
CORE DRILLER	
DERRICKPERSON AND RIGGER	
DIVER	
DOCKBUILDER - PILE DRIVER	
DRIVER: TRUCK (TEAMSTER)	
ELECTRICIAN	
ELECTRICIAN - ALARM TECHNICIAN	
ELECTRICIAN-STREET LIGHTING WORKER	
ELEVATOR CONSTRUCTOR	
ELEVATOR REPAIR & MAINTENANCE	
ENGINEER	
ENGINEER - CITY SURVEYOR AND CONSULTANT	
ENGINEER - FIELD (BUILDING CONSTRUCTION).	
ENGINEER - FIELD (HEAVY CONSTRUCTION)	
ENGINEER - FIELD (STEEL ERECTION)	
ENGINEER - OPERATING	
FLOOR COVERER	
GLAZIER	
GLAZIER - REPAIR & MAINTENANCE	
HEAT AND FROST INSULATOR	
HOUSE WRECKER	
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#### ASBESTOS HANDLER

(Hazardous Material; Disturbs, removes, encapsulates, repairs, or encloses friable asbestos material)

## **Asbestos Handler**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$35.90

Supplemental Benefit Rate per Hour: \$15.05

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$36.00

Supplemental Benefit Rate per Hour: \$15.45

#### **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 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

## **Paid Holidays**

None

(Local #78 and Local #12A)

#### **BLASTER**

## **Blaster**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$44.40

Supplemental Benefit Rate per Hour: \$38,44

## Blaster (Hydraulic)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.17

Supplemental Benefit Rate per Hour: \$38.44

## Blaster - Trac Drill Hydraulic

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$40.04

Supplemental Benefit Rate per Hour: \$38.44

## Blaster - Wagon: Air Trac: Quarry Bar: Drillrunners

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.30

Supplemental Benefit Rate per Hour: \$38.44

## Blaster - Operators of Jack Hammers

Chippers: Spaders: Concrete Breakers: and all other pneumatic tools of like usage: Walk Behind Self Propelled

Hydraulic Asphalt and Concrete Breakers: Hydro (Water) Demolition

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.32

Supplemental Benefit Rate per Hour: \$38.44

## **Blaster - Powder Carriers**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$34.66

Supplemental Benefit Rate per Hour: \$38.44

## Blaster - Hydraulic Trac Drill Chuck Tender

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$33.46

Supplemental Benefit Rate per Hour: \$38.44

## Blaster - Chuck Tender & Nipper

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$32.75

Supplemental Benefit Rate per Hour: \$38.44

## Blaster - Magazine Keepers: (Watch Person)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$19.76

Supplemental Benefit Rate per Hour: \$38,44

## **Overtime Description**

Magazine Keepers:

Time and one half for work performed in excess of forty (40) hours per week and for work performed on Saturdays, Sundays and Holidays.

All Other Employees:

Time and one-half for the first eight hours of work on Saturday and for Make-up Time. Double time for all hours over eight Monday through Friday (except make-up hours) and for all hours worked on Sunday and Holidays.

#### **Overtime**

Double time 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
Presidential Election Day

Thanksgiving Day
Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

A single shift shall be 8 hours plus an unpaid lunch, starting at 8:00 A.M (or between 6:00 A.M. and 10:00 A.M. on weekdays). When two (2) shifts are employed, each shift shall be 8 hours plus ½ hour unpaid lunch. When three (3) shifts are employed, each shift will work seven and one-half (7½) hours, but will be paid for eight (8) hours, since only one-half (½) hour is allowed for mealtime. When two (2) or more shifts are employed, single time will be paid for each shift. The first 8 hours of any and all work performed Monday through Friday inclusive of any off-shift shall be at the single time rate.

(Local #29)

#### BOILERMAKER

## <u>Boilermaker</u>

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate per Hour: \$49.47

Supplemental Benefit Rate per Hour: \$39.78

Supplemental Note: For time and one half overtime - \$59.08; For double overtime - \$78.37.

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate per Hour: \$50.45

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Supplemental Benefit Rate per Hour: \$41.31

Supplemental Note: For time and one half overtime - \$61.37; For double overtime - \$81.43.

### 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** 

**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

When shifts are required, the first shift shall work eight (8) hours at the regular straight-time hourly rate. The second shift shall work seven and one-half (7 ½) hours and receive eight hours at the regular straight time hourly rate plus twenty-five cents (\$0.25) per hour. The third shift shall work seven (7) hours and receive eight hours at the regular straight time hourly rate plus fifty cents (\$0.50) per hour. A thirty (30) minute lunch period shall not be considered as time worked. Work in excess of the above shall be paid overtime at the appropriate new construction work or repair work overtime wage and supplemental benefit hourly rate.

(Local #5)

#### **BRICKLAYER**

## **Bricklayer**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$46,44

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Supplemental Benefit Rate per Hour: \$27.53

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$47.78

Supplemental Benefit Rate per Hour: \$28.03

#### **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.

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
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

## **Paid Holidays**

None

### **Shift Rates**

Overtime rates to be paid outside the regular scheduled work day.

(Bricklayer District Council)

## **CARPENTER - BUILDING COMMERCIAL**

## **Building Commercial**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$48.08

Supplemental Benefit Rate per Hour: \$41.10

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$48.88

Supplemental Benefit Rate per Hour: \$42.70

### **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

Columbus Day

Presidential Election Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

## Paid Holidays

None

#### **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.

(Carpenters District Council)

## CARPENTER - HEAVY CONSTRUCTION WORK (Construction of Engineering Structures and Building Foundations)

## **Heavy Construction Work**

Effective Period: 7/1/2013 - 7/17/2013

Wage Rate per Hour: \$46.74

Supplemental Benefit Rate per Hour: \$42.37

Effective Period: 7/18/2013 - 6/30/2014

Wage Rate per Hour: \$46.82

Supplemental Benefit Rate per Hour: \$44.97

#### **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.

(Carpenters District Council)

#### **CEMENT & CONCRETE WORKER**

## Cement & Concrete Worker

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$42.33

Supplemental Benefit Rate per Hour: \$26.17

Supplemental Note: \$28.92 on Saturdays; \$31.67 on Sundays & Holidays

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$42.38

Supplemental Benefit Rate per Hour: \$26.17

Supplemental Note: \$28.92 on Saturdays; \$31.67 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)

### **CEMENT MASON**

## **Cement Mason**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.63

Supplemental Benefit Rate per Hour: \$39.05

Supplemental Note: Overtime supplemental benefit rate per hour: \$57.55

## **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.

#### 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 an off shift day, (work at times other than the regular 7:00 A.M. to 3:30 P.M. work day) a cement mason shall e paid at the regular hourly rate plus a 25% per hour differential. Four Days a week at Ten (10)hour day.

(Local #780)

#### CORE DRILLER

## **Core Driller**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$35.44

Supplemental Benefit Rate per Hour: \$19.75

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$35.71

Supplemental Benefit Rate per Hour: \$21.69

## Core Driller Helper

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$28.60

Supplemental Benefit Rate per Hour: \$19.75

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$28.60

Supplemental Benefit Rate per Hour: \$21.69

## Core Driller Helper(Third year in the industry)

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$25.74

Supplemental Benefit Rate per Hour: \$19.75

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$25.74

Supplemental Benefit Rate per Hour: \$21.69

## Core Driller Helper (Second year in the industry)

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$22.88

Supplemental Benefit Rate per Hour: \$19.75

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$22.88

Supplemental Benefit Rate per Hour: \$21.69

## Core Driller Helper (First year in the industry)

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$20.02

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Supplemental Benefit Rate per Hour: \$19.75

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$20.02

Supplemental Benefit Rate per Hour: \$21.69

### Overtime Description

Time and one half the regular rate for work on a holiday plus Holiday pay when worked.

#### **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

The shift day shall be the continuous eight and one-half (8 $\frac{1}{2}$ ) hours from 6:00 A.M. to 2:30 P.M. and from 2:30 P.M. to 11:00 P.M., including one-half (1/2) hour of employees regular rate of pay for lunch. 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 seventy-five cents (\$0.75) 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 (1/2) hour for mealtime.

(Carpenters District Council)

#### DERRICKPERSON AND RIGGER

## **Derrick Person & Rigger**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.00

Supplemental Benefit Rate per Hour: \$46.07

Supplemental Note: The above supplemental rate applies for work performed in Manhattan, Bronx, Brooklyn and

Queens. \$47.49 - For work performed in Staten Island.

## <u>Derrick Person & Rigger - Site Work</u>

For site work where no rigging is involved.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$30.00

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Supplemental Benefit Rate per Hour: \$31.32

## **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.

#### **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

## <u>Diver (Marine)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$59.40

Supplemental Benefit Rate per Hour: \$44.97

## **Diver Tender (Marine)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$42.05

Supplemental Benefit Rate per Hour: \$44.97

#### **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

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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$46.82

Supplemental Benefit Rate per Hour: \$44.97

#### **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.

(Carpenters District Council)

**DRIVER: TRUCK (TEAMSTER)** 

## <u> Driver - Automobile Chauffeur (Dump Truck)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.11

Supplemental Benefit Rate per Hour: \$40.20

## **Driver - Heavy Equipment Trailer Driver**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.61

Supplemental Benefit Rate per Hour: \$40.20

Note: For time and one half overtime Wage Rate - \$57.16; for double time overtime Wage Rate - \$76.21

## **Driver - Euclid & Turnapull Operator**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.67

Supplemental Benefit Rate per Hour: \$40.20

## <u> Driver - Six Wheeler(3 Axle) Tractors & Trailers</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.11

Supplemental Benefit Rate per Hour: \$40.20

Note: For time and one half overtime Wage Rate - \$58.01; for double time overtime Wage Rate - \$77.34

## <u> Driver - Boom Truck</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.36

Supplemental Benefit Rate per Hour: \$40.20

Note: For time and one half overtime Wage Rate - \$58.01; for double time overtime Wage Rate - \$77.34

## 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

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

## **Driver - Redi-Mix Driver (Sand & Gravel)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$35.71

Supplemental Benefit Rate per Hour: \$37.27

## **Overtime Description**

For Paid Holidays: Employees working two (2) days in the calendar week in which the holiday falls are to paid for these holidays, provided they shape each remaining workday during that calendar 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).

President's Day olumbus Day Veteran's Day

Triple time the regular rate for work on the following holiday(s).
New Year's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day

## **Paid Holidays**

**Christmas Day** 

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 all low voltage cabling carrying data; video; and voice in combination with data and or video.)

## Electrician "A" (Regular Day)

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$52.00

Supplemental Benefit Rate per Hour: \$46.13

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$53.00

Supplemental Benefit Rate per Hour: \$47.54

## **Electrician "A" (Regular Day Overtime)**

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$78.00

Supplemental Benefit Rate per Hour: \$49.39

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$79.50

Supplemental Benefit Rate per Hour: \$50.86

## Electrician "A" (Day Shift)

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$52.00

Supplemental Benefit Rate per Hour: \$46.13

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$53.00

Supplemental Benefit Rate per Hour: \$47.54

# Electrician "A" (Day Shift Overtime After 8 hours)

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$78.00

Supplemental Benefit Rate per Hour: \$49.39

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$79.50

Supplemental Benefit Rate per Hour: \$50.86

### Electrician "A" (Swing Shift)

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$61.01

Supplemental Benefit Rate per Hour: \$52.47

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$62.19

Supplemental Benefit Rate per Hour: \$54.07

# Electrician "A" (Swing Shift Overtime After 7.5 hours)

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$91.52

Supplemental Benefit Rate per Hour: \$56.30

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$93.29

Supplemental Benefit Rate per Hour: \$57.97

# **Electrician "A" (Graveyard Shift)**

Effective Period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$68.34

Supplemental Benefit Rate per Hour: \$57.83

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$69.66

Supplemental Benefit Rate per Hour: \$59.59

# Electrician "A" (Graveyard Shift Overtime After 7 hours)

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Effective Period: 7/1/2013 - 5/13/2014 Wage Rate per Hour: \$102.51

Supplemental Benefit Rate per Hour: \$62.11

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$104.49

Supplemental Benefit Rate per Hour: \$63.96

#### **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

When so elected by the Employer, one or more shifts of at least five days duration may be scheduled as follows: Day Shift: 8:00 am to 4:30 pm, Swing Shift 4:30 pm to 12:30 am, Graveyard Shift: 12:30 am to 8:00 am.

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 \$22.86 effective 1/20/2014 and \$23.63 effective 5/14/2014.

# 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: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$26.50

Supplemental Benefit Rate per Hour: \$19.56

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$25.80 First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$19.21 First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$22.00

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First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$17.30

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$27.00

Supplemental Benefit Rate per Hour: \$20.32

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$26.30 First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$19.96 First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$22.50 First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$18.06

#### **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: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$39.75

Supplemental Benefit Rate per Hour: \$21.23

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$38.70 First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$20.83 First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$33.00 First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$18.68

Effective Period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$40.50

Supplemental Benefit Rate per Hour: \$21.01

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$39.45 First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$21.61 First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$33.75 First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$19.47

#### **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

Paid Holidays

Christmas Day

None

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(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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$30.40

Supplemental Benefit Rate per Hour: \$13.90

Supplemental Note: \$12.40 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. Double time 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 8:00 A.M.

#### Vacation

At least 1 year of employment	ten (10) davs
5 years or more of employment	
10 years of employment	

Plus one Personal Day per year

Sick Days: One day per Year

(Local #3)

#### **ELECTRICIAN-STREET LIGHTING WORKER**

#### <u>Electrician - Electro Pole Electrician</u>

Effective Period: 7/1/2013 - 5/20/2014

Wage Rate per Hour: \$52.00

Supplemental Benefit Rate per Hour: \$47.90

Effective Period: 5/21/2014 - 6/30/2014

Wage Rate per Hour: \$53.00

Supplemental Benefit Rate per Hour: \$49.34

#### **Electrician - Electro Pole Foundation Installer**

Effective Period: 7/1/2013 - 5/20/2014

Wage Rate per Hour: \$39.42

Supplemental Benefit Rate per Hour: \$36.46

Effective Period: 5/21/2014 - 6/30/2014

Wage Rate per Hour: \$40.18

Supplemental Benefit Rate per Hour: \$37.73

#### Electrician - Electro Pole Maintainer

Effective Period: 7/1/2013 - 5/20/2014

Wage Rate per Hour: \$33.75

Supplemental Benefit Rate per Hour: \$32.83

Effective Period: 5/21/2014 - 6/30/2014

Wage Rate per Hour: \$34.40

Supplemental Benefit Rate per Hour: \$34.00

#### **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 st during the week to inclement weather.

# **Overtime Holidays**

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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)

#### **ELEVATOR CONSTRUCTOR**

### **Elevator Constructor**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$57.01

Supplemental Benefit Rate per Hour: \$34.48

### **Overtime Description**

For New Construction: work performed after 7 or 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
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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.14

Supplemental Benefit Rate per Hour: \$33.02

### **Overtime Description**

For Service Work: Double time - all work 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

For Modernization Work (4pm to 12:30am) - regularly hourly rate plus a (15%) fifteen percent differential.

#### 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)



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# **Engineer - Heavy Construction Operating Engineer I**

Cherrypickers 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$61.05

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$97.68

### **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, Cherrypickers. 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$59.24

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$94.78

# **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.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$56.22

Supplemental Benefit Rate per Hour: \$31.93

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$89.95

# **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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$58.97

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$94.35

# **Engineer - Heavy Construction Maintenance Engineer II**

**On Base Mounted Tower Cranes** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$77.30

Supplemental Benefit Rate per Hour: \$31.93

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$123.68

# **Engineer - Heavy Construction Maintenance Engineer III**

On Generators, Light Towers

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.10

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$62.56

# **Engineer - Heavy Construction Maintenance Engineer IV**

On Pumps and Mixers including mud sucking

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$40.11

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$64.18

# **Engineer - Heavy Construction Oilers I**

Gradalls, Cold Planer Grader, Concrete Pumps, Driving Truck Cranes, Driving and Operating Fuel and Grease Trucks.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$53.22

upplemental Benefit Rate per Hour: \$31.93

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$85.15

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# **Engineer - Heavy Construction Oilers II**

All gasoline, electric, diesel or air operated Shovels, Draglines, Backhoes, Keystones, Pavers, Gunite Machines, Battery of Compressors, Crawler Cranes, two-person Trenching Machines.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$36.97

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$59.15

# **Engineer - Steel Erection Maintenance Engineers**

Derrick, Travelers, Tower, Crawler Tower and Climbing Cranes

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$57.05

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$91.28

### **Engineer - Steel Erection Oiler I**

On a Truck Crane

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$53.43

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$85.49

# **Engineer - Steel Erection Oiler II**

On a Crawler Crane

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$40.84

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

Shift Wage Rate: \$65.34

### 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$54.04

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

# Engineer - Building Work Maintenance Engineers II

On Pumps, Generators, Mixers and Heaters

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$42.10

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$51.40

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 on overtime

# **Engineer - Building Work Oilers II**

Oilers on Crawler Cranes, Backhoes, Trenching Machines, Gunite Machines, Compressors (three or more in Battery).

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.31

Supplemental Benefit Rate per Hour: \$31.93 Supplemental Note: \$57.46 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

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

#### Shift Rates

Off Shift: double time the regular hourly rate.

(Local #15)

# **ENGINEER - CITY SURVEYOR AND CONSULTANT**

# Party Chief

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$35.55

Supplemental Benefit Rate per Hour: \$17.65

# **Instrument Person**

Effective Period: 7/1/2013 - 6/30/2014

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Wage Rate per Hour: \$29.41

Supplemental Benefit Rate per Hour: \$17.65

### Rodperson

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$25.54

Supplemental Benefit Rate per Hour: \$17.65

### **Overtime Description**

Overtime Benefit Rate - \$23.63 per hour (time & one half) \$29.95 per hour (double time). 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

(Operating Engineer Local #15-D)

# ENGINEER - FIELD (BUILDING CONSTRUCTION) (Construction of Building Projects, Concrete Superstructures, etc.)

# Field Engineer - BC Party Chief

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$55.40

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime Benefit Rate - \$42.73 per hour (time & one half) \$54.84 per hour (double time).

# Field Engineer - BC Instrument Person

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$43.10

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime Benefit Rate - \$42.73 per hour (time & one half) \$54.84 per hour (double time).

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### Field Engineer - BC Rodperson

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$27.96

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime Benefit Rate - \$42.73 per hour (time & one half) \$54.84 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

(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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$62.61

Supplemental Benefit Rate per Hour: \$30,62

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

# Field Engineer - HC Instrument Person

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$46.00

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

# <u>Field Engineer - HC Rodperson</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.61

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 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

(Operating Engineer Local #15-D)

# **ENGINEER - FIELD (STEEL ERECTION)**

# Field Engineer - Steel Erection Party Chief

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$58.50

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

# Field Engineer - Steel Erection Instrument Person

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.53

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

# Field Engineer - Steel Erection Rodperson

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$30.43

Supplemental Benefit Rate per Hour: \$30.62

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

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### **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

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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$67.70

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$108.32

# Operating Engineer - Road & Heavy Construction II

Backhoes, Power Shovels, Hydraulic Clam Shells, Steel Erection, Moles and machines of a similar nature.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$70.10

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: 51.75 overtime hours

Shift Wage Rate: \$112.16

# **Operating Engineer - Road & Heavy Construction III**

Mine Hoists, Cranes, etc. (Used as Mine Hoists)

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Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$72.34

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$115.74

### 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$70.63

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$113.01

### Operating Engineer - Road & Heavy Construction V

Pile Drivers & Rigs (employing Dock Builder foreperson): Derrick Boats, Tunnel Shovels.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$69.23

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$110.77

# **Operating Engineer - Road & Heavy Construction VI**

Mixers (Concrete with loading attachment), Concrete Pavers, Cableways, Land Derricks, Power Houses (Low Air Pressure Units).

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$65.76

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$105.22

# **Operating Engineer - Road & Heavy Construction VII**

Barrier Movers, Barrier Transport and Machines of a Similar Nature.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$53.08

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$84.93

# **Operating Engineer - Road & Heavy Construction VIII**

#### **Utility Compressors**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.18

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$51.93

# **Operating Engineer - Road & Heavy Construction IX**

**Horizontal Boring Rig** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$62.53

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$100.05

# **Operating Engineer - Road & Heavy Construction X**

Elevators (manually operated as personnel hoist).

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$57.46

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$91.94

# **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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$44.63

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$71.41

# **Operating Engineer - Road & Heavy Construction XII**

All Drills and Machines of a similar nature.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$66.45

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$106.32

# **Operating Engineer - Road & Heavy Construction XIII**

Concrete Pumps, Concrete Plant, Stone Crushers, Double Drum Hoist, Power Houses (other than above).

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$64.34

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$102.94

# Operating Engineer - Road & Heavy Construction XIV

**Concrete Mixer** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$61.53

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Noté: \$51.75 overtime hours

Shift Wage Rate: \$98.45

# 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.44

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$66.30

# **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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$58.74

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.85 overtime hours

Shift Wage Rate: \$93.98

# **Operating Engineer - Road & Heavy Construction XVII**

On-Site concrete plant engineer, On-site Asphalt Plant Engineer, and Vibratory console.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$59.21

Supplemental Benefit Rate per Hour: \$28.60 upplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$94.74

# **Operating Engineer - Road & Heavy Construction XVIII**

**Tower Crane** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$85.00

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$136.00

### **Operating Engineer - Paving I**

Asphalt Spreaders, Autogrades (C.M.I.), Roto/Mil

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$65.76

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$105.22

### **Operating Engineer - Paving II**

**Asphalt Roller** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$64.04

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$102.46

# **Operating Engineer - Paving III**

**Asphalt Plants** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$54.17

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$86.67

# **Operating Engineer - Concrete I**

Cranes

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$70.32

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

# **Operating Engineer - Concrete II**

#### Compressors

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.76

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

### **Operating Engineer - Concrete III**

Micro-traps (Negative Air Machines), Vac-All Remediation System.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$56.16

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

### Operating Engineer - Steel Erection I

**Three Drum Derricks** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$73.37

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$117.39

# Operating Engineer - Steel Erection II

Cranes, 2 Drum Derricks, Hydraulic Cranes, Fork Lifts and Boom Trucks.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$70.50

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$112.80

# **Operating Engineer - Steel Erection III**

Compressors, Welding Machines.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.84

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$66.94

# Operating Engineer - Steel Erection IV

Compressors - Not Combined with Welding Machine.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.85

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: \$63.76

# Operating Engineer - Building Work I

Forklifts, Plaster (Platform machine), Plaster Bucket, Concrete Pump and all other equipment used for hoisting material.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$57.82

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$43.28

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

# **Operating Engineer - Building Work III**

**Double Drum** 

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$65.83

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

# **Operating Engineer - Building Work IV**

Stone Derrick, Cranes, Hydraulic Cranes Boom Trucks.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$69.74

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

# Operating Engineer - Building Work V

Dismantling and Erection of Cranes, Relief Engineer.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$64.26

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Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

# Operating Engineer - Building Work VI

4 Pole Hoist, Single Drum Hoists.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$63.58

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

### **Operating Engineer - Building Work VII**

Rack & Pinion and House Cars

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$50.53

Supplemental Benefit Rate per Hour: \$28.60 Supplemental Note: \$51.75 overtime hours

For New House Car projects started after 7/1/11 only: Wage Rate per Hour \$40.31

### **Overtime Description**

On jobs of more than one shift, if an Employee fails to report for work through any cause <u>over whi</u>ch 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
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

### Shift Rates

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: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$46.15

Supplemental Benefit Rate per Hour: \$38.50

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$48.88

Supplemental Benefit Rate per Hour: \$42.70

#### 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

**Presidential Election Day** 

Thanksgiving Day

Day after Thanksgiving

**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

Two shifts may be utilized with the first shift working 8:00 A.M. to the end of the shift at the straight time of pay. The second shift will receive one hour at double time rate for the last hour of the shift. (eight for seven, nine for eight).

(Carpenters District Council)

#### **GLAZIER**

(New Construction, Remodeling, and Alteration)

#### Glazier

Effective Period: 7/1/2013 - 10/31/2013

Wage Rate per Hour: \$42.00

Supplemental Benefit Rate per Hour: \$33.24

Supplemental Note: Supplemental Benefit Overtime Rate: \$41.24

Effective Period: 11/1/2013 - 6/30/2014

Wage Rate per Hour: \$42.00

Supplemental Benefit Rate per Hour: \$34.09

Supplemental Note: Supplemental Benefit Overtime Rate: \$42.59

### **Overtime Description**

An optional 8th hour can be worked at straight time rate. If 9th hour is worked, then both hours or more (8th & 9th or more) will be at the double time rate of pay.

#### Overtime

Double time the regular rate after a 7 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
Thanksgiving Day
Day after Thanksgiving
Christmas Day

# **Paid Holidays**

None

#### **Shift Rates**

Shifts shall be any 7 hours beyond 4:00 P.M. for which the glazier shall receive 8 hours pay for 7 hours worked.

(Local #1281)

### **GLAZIER - REPAIR & MAINTENANCE**

(For the Installation of Glass - All repair and maintenance work on a particular building, whenever performed, where the total cumulative contract value is under \$105,000. Except where enumerated (i.e. plate glass windows) does not apply to non-residential buildings.)

# 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: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$23.50

Supplemental Benefit Rate per Hour: \$18.54

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$23.60

Supplemental Benefit Rate per Hour: \$19.04

#### **Overtime**

Time and one half the regular rate after an 8 hour day.

Double time the regular rate for Sunday.

Time and one half the regular hourly rate after 40 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

(Local #1281)

#### **HEAT AND FROST INSULATOR**

# **Heat & Frost Insulator**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$56.48

Supplemental Benefit Rate per Hour: \$33.31

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$56.98

Supplemental Benefit Rate per Hour: \$34.81

#### **Overtime Description**

Double time shall be paid for supplemental benefits during overtime work. 8th hour paid at time and one half.

#### **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

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. Off hour work in occupied or retail buildings may be worked on weekdays with an increment of \$1.00 per hour and eight hours pay for seven (7) hours worked. Double time will apply for over seven (7) hours worked on weekdays, weekends or holidays.

(Local #12)

# HOUSE WRECKER (TOTAL DEMOLITION)

# House Wrecker - Tier A

On all work sites the first, second, eleventh and every third House Wrecker thereafter shall be Tier A House Wreckers (i.e. 1st, 2nd, 11th, 14th etc). The 10th and 20th House Wrecker shall be apprentices. Other House Wreckers shall be Tier B House Wreckers.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$34.01

Supplemental Benefit Rate per Hour: \$25.14

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$34.51

Supplemental Benefit Rate per Hour: \$25.59

### House Wrecker - Tier B

On all work sites the first, second, eleventh and every third House Wrecker thereafter shall be Tier A House Wreckers (i.e. 1st, 2nd, 11th, 14th etc). The 10th and 20th House Wrecker shall be apprentices. Other House Wreckers shall be Tier B House Wreckers.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$23.75

Supplemental Benefit Rate per Hour: \$18.62

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$24.02

Supplemental Benefit Rate per Hour: \$19.12

#### **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**

# <u>Iron Worker - Ornamental</u>

Effective Period: 7/1/2013 - 1/19/2014

**ADDENDUM 1** 

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Wage Rate per Hour: \$42.30

Supplemental Benefit Rate per Hour: \$43.54

Supplemental Note: Supplemental benefits are to be paid at the applicable overtime rate when overtime is in

effect.

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$42.70

Supplemental Benefit Rate per Hour: \$44.57

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**

For off shift work - 8 hours pay for 7 hours of work. When two or three shifts are employed on a job, Monday through Friday, the workday for each shift shall be seven hours and paid for ten and one-half hours at the single time rate. When two or three shifts are worked on Saturday, Sunday or holidays, each shift shall be seven hours and paid fifteen and three-quarters hours.

(Local #580)

#### **IRON WORKER - STRUCTURAL**

# Iron Worker - Structural

Effective Period: 7/1/2013 - 1/19/2014

Nage Rate per Hour: \$46.75

Supplemental Benefit Rate per Hour: \$62.48

Supplemental Note: Supplemental benefits are to be paid at the applicable overtime rate when overtime is in effect.

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$47.25

Supplemental Benefit Rate per Hour: \$64.43

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.

#### **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
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. 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.

(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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.25

Supplemental Benefit Rate per Hour: \$33.25

#### **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
Presidential Election 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  $\frac{1}{2}$ ), but shall be paid for eight (8) hours of labor, and be permitted one half hour for lunch.

(Local #731)

#### LANDSCAPING

(Landscaping tasks, as well as tree pruning, tree removing, spraying and maintenance in connection with the planting of street trees and the planting of trees in city parks but not when such activities are performed as part of, or in connection with, other construction or reconstruction projects.)

# Landscaper (Above 6 years experience)

Iffective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$24.25

Supplemental Benefit Rate per Hour: \$12.30

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# Landscaper (3 - 6 years experience)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$23.25

Supplemental Benefit Rate per Hour: \$12.30

# Landscaper (up to 3 years experience)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$20.75

Supplemental Benefit Rate per Hour: \$12.30

### **Groundperson**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$20.75

Supplemental Benefit Rate per Hour: \$12.30

### Tree Remover / Pruner

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$29.25

Supplemental Benefit Rate per Hour: \$12.30

# Landscaper Sprayer (Pesticide Applicator)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$19.25

Supplemental Benefit Rate per Hour: \$12.30

# Watering - Plant Maintainer

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$14.25

Supplemental Benefit Rate per Hour: \$12.30

# Overtime Description

For all overtime work performed, supplemental benefits shall include an additional seventy-five (\$0.75) cents per hour.

nour.

#### **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: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$49.19

Supplemental Benefit Rate per Hour: \$32.24

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$50.57

Supplemental Benefit Rate per Hour: \$33.82

# Marble Finisher

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$39.05

Supplemental Benefit Rate per Hour: \$31.43

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$39.71

Supplemental Benefit Rate per Hour: \$33.10

### **Marble Polisher**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$34.73

Supplemental Benefit Rate per Hour: \$24.60

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$35.64

Supplemental Benefit Rate per Hour: \$25.64

# **Overtime Description**

Supplemental Benefit contributions are to be made at the applicable overtime rates. Time and one half the regular rate after a 7 hour day or time and one half the regular rate after an 8 hour day - chosen by Employer at the start of the project and then would last for the full duration of the project.

#### **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

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

#### **Paid Holidays**

**Christmas Day** 

None

(Local #7)

#### **MASON TENDER**

# **Mason Tender**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$35.00

Supplemental Benefit Rate per Hour: \$25.74

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$35.53

Supplemental Benefit Rate per Hour: \$26.31

#### **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**

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.

(Local #79)

# MASON TENDER (INTERIOR DEMOLITION WORKER)

(The erection, building, moving, servicing and dismantling of enclosures, scaffolding, barricades, protection and site safety structures etc., on Interior Demolition jobs.)

### Mason Tender Tier A

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$34.07

Supplemental Benefit Rate per Hour: \$19.77

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$34.59

Supplemental Benefit Rate per Hour: \$20.75

# Mason Tender Tier B

On Interior Demolition job sites 33 1/3 % of the employees shall be classified as Tier A Interior Demolition Workers and 66 2/3 % shall be classified as Tier B Interior Demolition Workers; provided that the employer may employ more than 33 1/3 % Tier A Interior Demolition Workers on the job site. Where the number of employees on a job site is not divisible by 3, the first additional employee (above the number of employees divisible by three) shall be a Tier B Interior Demolition Worker, and the second additional employee shall be a Tier A Interior Demolition Worker.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$23.27

Supplemental Benefit Rate per Hour: \$14.08

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$23.78

Supplemental Benefit Rate per Hour: \$15.07

Overtime

Time and one half the regular rate after an 8 hour day.

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** 

President's Day

Memorial Day

Independence Day

Labor Day

**Thanksgiving Day** 

**Christmas Day** 

### **Paid Holidays**

None

(Local #79)

#### METALLIC LATHER

### **Metallic Lather**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.43

Supplemental Benefit Rate per Hour: \$40.15

Supplemental Note: Supplemental benefits for overtime are paid at the appropriate overtime rate.

### **Overtime Description**

Overtime would be time and one half the regular rate after a seven (7) or eight (8) hours workday, which would be set at the start of the job.

#### **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

Washington's Birthday

**Good Friday** 

**Memorial Day** 

Independence Day

Labor Day

Labor Day

**Columbus Day** 

**Presidential Election 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

There shall be either two (2) or three (3) shifts, each shift shall be eight (8) hours with nine (9) hours pay, including one half ( $\frac{1}{2}$ ) hour for lunch. Off-Hour Start shall commence after 3:30 P.M. and shall conclude by 6:00 A.M. The first consecutive seven (7) hours shall be at straight time with a differential of twelve dollars (\$12.00) per hour. Fringes shall be paid at the straight time rate.

(Local #46)

#### **MILLWRIGHT**

### Millwright

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$47.69

Supplemental Benefit Rate per Hour: \$48.87

#### **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** 

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

The first shift shall receive the straight time rate of pay. The second shift receives the straight time rate of pay plus fifteen (15%) per cent. Members of the second shift shall be allowed one half hour to eat, with this time being included in the hours of the workday established. There must be a first shift to work a second shift. All dditional hours worked shall be paid at the time and one-half rate of pay plus fifteen (15%) per cent for weekday hours.

(Local #740)

#### **MOSAIC MECHANIC**

## Mosaic Mechanic - Mosaic & Terrazzo Mechanic

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$44.39

Supplemental Benefit Rate per Hour: \$35.11

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$46.08 per hour.

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$44.64

Supplemental Benefit Rate per Hour: \$35.83

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$46.80 per hour.

## Mosaic Mechanic - Mosaic & Terrazzo Finisher

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$42.78

Supplemental Benefit Rate per Hour: \$35.11

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$46.08 per hour.

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$43.03

Supplemental Benefit Rate per Hour: \$35.82

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$46.79 per hour.

## Mosaic Mechanic - Machine Operator Grinder

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$42.78

Supplemental Benefit Rate per Hour: \$35.11

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$46.08 per hour.

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$43.03

Supplemental Benefit Rate per Hour: \$35.82

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$46.79 per hour.

#### **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: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$37.50

Supplemental Benefit Rate per Hour: \$25.62 Supplemental Note: \$30.25 on overtime

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$39.50

Supplemental Benefit Rate per Hour: \$26.12 Supplemental Note: \$30.75 on overtime

## Spray & Scaffold / Decorative / Sandblast

Effective Period: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$40.50

Supplemental Benefit Rate per Hour: \$25.62 Supplemental Note: \$30.25 on overtime

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$42.50

Supplemental Benefit Rate per Hour: \$26.12 Supplemental Note: \$30.75 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 - SIGN**

## **Designer**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$36.15

Supplemental Benefit Rate per Hour: \$9.66

### <u>Journeyperson</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$33.62

Supplemental Benefit Rate per Hour: \$9.66

#### **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.
Double 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**

All work performed outside the regular 8 hour work day (either 7:00 A.M to 3:30 P.M or 8:00 A.M. to 4:30 P.M) shall be paid at time and one half the regular hourly rate.

(Local #8A-28A)

#### **PAINTER - STRIPER**

## Striper (paint)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$33.50

Supplemental Benefit Rate per Hour: \$11.62

Supplemental Note: Overtime Supplemental Benefit rate - \$7.42; New Hire Rate (0-3 months) - \$0.00

## **Lineperson (thermoplastic)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$37.50

Supplemental Benefit Rate per Hour: \$11.62

Supplemental Note: Overtime Supplemental Benefit rate - \$7.42; New Hire Rate (0-3 months) - \$0.00

#### **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
Good Friday
Memorial Day
Independence Day
Labor Day
Columbus Day
Presidential Election Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

#### Shift Rates

Employees hired before April 1, 2003: 15% night shift premium differential for work commenced at 9:00 PM or later.

#### **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. Vacation must be taken during winter months. 2 Personal Days except employees hired after 4/1/12 who do not have 2 years of service.

(Local #917)

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## **PAINTER - STRUCTURAL STEEL**

## Painters on Structural Steel

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$47.00

Supplemental Benefit Rate per Hour: \$32.08

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$47.00

Supplemental Benefit Rate per Hour: \$33.58

#### Painter - Power Tool

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$53.00

Supplemental Benefit Rate per Hour: \$32.08

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$53.00

Supplemental Benefit Rate per Hour: \$33.58

#### **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**

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**

Regular hourly rates plus a ten per cent (10%) differential

(Local #806)

#### **PAPERHANGER**

#### **Paperhanger**

Effective Period: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$39.00

Supplemental Benefit Rate per Hour: \$29.23

Supplemental Note: Supplemental benefits are to be paid at the appropriate straight time and overtime rate.

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$41.08

Supplemental Benefit Rate per Hour: \$29.23

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** 

## **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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$43.54

Supplemental Benefit Rate per Hour: \$33.55

## Paver & Roadbuilder - Laborer

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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 before the installation of rubberized materials and similar surfaces; installation and repair of temporary construction fencing; slurry seal coating, maintenance of safety surfaces; play equipment installation, and other related work.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.67

Supplemental Benefit Rate per Hour: \$33.55

## <u>Production Paver & Roadbuilder - Screed Person</u>

(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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.12

Supplemental Benefit Rate per Hour: \$33.55

### Production Paver & Roadbuilder - Raker

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$44.61

Supplemental Benefit Rate per Hour: \$33.55

## 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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$41.32

Supplemental Benefit Rate per Hour: \$33.55

#### **Overtime Description**

Veteran's Day is a Paid Holiday for employees working on production paving.

If an employee works New Year's Day or Christmas Day, they receive the single time rate plus 25%.

Employees who work on a holiday listed below receive the straight time rate plus one day's pay 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.

## Paid Holidays

Memorial Day

Independence Day Labor Day Presidential Election 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  $\frac{1}{2}$ ) hours but will be paid for eight (8) hours 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 20% over the single time rate for the screed person, rakers and shovelers directly involved only. 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.

(Local #1010)

#### **PLASTERER**

### **Plasterer**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$41.13

Supplemental Benefit Rate per Hour: \$24.95

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$41.78

Supplemental Benefit Rate per Hour: \$27.95

#### **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.

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** 

Martin Luther King Jr. 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**

When it is not possible to conduct alteration work during regular work hours, in a building occupied by tenants, said work shall proceed on a shift basis: however work over seven (7) hours in any twenty four (24) hour period, the time after seven (7) hours shall be considered overtime.

The second shift shall start at a time between 3:30 p.m. and 7:00 p.m. and shall consist of seven (7) working hours and shall receive eight (8) hours of wages and benefits at the straight time rate. The workers on the second shift shall be allowed one-half (½) hour to eat with this time being included in the seven (7) hours of work.

(Local #530)

#### **PLASTERER - TENDER**

### **Plasterer - Tender**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$35.00

Supplemental Benefit Rate per Hour: \$25.74

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$35.53

Supplemental Benefit Rate per Hour: \$26.31

#### **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 .

### <u>Plumber</u>

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$52.36

Supplemental Benefit Rate per Hour: \$37.34

Supplemental Note: Overtime supplemental benefit rate per hour: \$74.40

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$64.87

Supplemental Benefit Rate per Hour: \$25.18

Supplemental Note: Overtime supplemental benefit rate per hour: \$50.08

### **Overtime Description**

Double time the regular rate after a 7 hour day - unless for new construction site work where the plumbing contract price is \$1.5 million or less, the hours of labor can be 8 hours per day at the employers option. On Alteration jobs when other mechanical trades at the site are working an eighth hour at straight time, then the plumber shall also work an eighth hour at straight time.

#### **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

President's Day

**Memorial Day** 

Independence Day

**Labor Day** 

**Columbus Day** 

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

**Christmas Day** 

#### Shift Rates

Shift work, when directly specified in public agency or authority documents where plumbing contract is \$8 million or less, will be permitted. 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 nidnight shift work performed on weekends. For shift work on holidays, double time wages and fringe benefits shall be paid.

(Plumbers Local #1)

## PLUMBER (MECHNICAL EQUIPMENT AND SERVICE)

(Mechanical Equipment and Service work shall include any repair and/or replacement of the present plumbing system.)

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$33.46

Supplemental Benefit Rate per Hour: \$16.93

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$38.27

Supplemental Benefit Rate per Hour: \$12.84

#### **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

(Plumbers Local # 1)

# PLUMBER (RESIDENTIAL RATES FOR 1, 2 AND 3 FAMILY HOME CONSTRUCTION)

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$37.11

Supplemental Benefit Rate per Hour: \$25.56

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$44.91

Supplemental Benefit Rate per Hour: \$18.37

#### **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

#### **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 (Installation and Maintenance)

## Plumber - Pump & Tank

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$53.01

Supplemental Benefit Rate per Hour: \$31.86

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$62.83

Supplemental Benefit Rate per Hour: \$21.37

#### **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**

**ADDENDUM 1** 

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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

(Plumbers Local #1)

## POINTER - WATERPROOFER, CAULKER MECHANIC (EXTERIOR BUILDING RENOVATION)

## Pointer - Waterproofer, Caulker Mechanic

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.41

Supplemental Benefit Rate per Hour: \$23.29

#### **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 Dav** 

Thanksgiving Day

**Christmas Day** 

## Paid Holidays

ADDENDUM 1

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None

#### Shift Rates

All work outside the regular work day (an eight hour workday between the hours of 6:00 A.M. and 4:30 P.M.) is to be paid at time and one half the regular rate.

(Bricklayer District Council)

#### ROOFER

### Roofer

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$39.00

Supplemental Benefit Rate per Hour: \$27.37

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$40.00

Supplemental Benefit Rate per Hour: \$27.87

#### 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

Presidential Election 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.

(Local #8)

# SANDBLASTER - STEAMBLASTER (Exterior Building Renovation)

### Sandblaster / Steamblaster

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.41

Supplemental Benefit Rate per Hour: \$23.29

#### **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 4:30 P.M.) is to be paid at time and one half the regular rate.

(Bricklayer District Council)

#### SHEET METAL WORKER

## **Sheet Metal Worker**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.96

Supplemental Benefit Rate per Hour: \$43.19

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

## <u>Sheet Metal Worker - Duct Cleaner</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$12.90

Supplemental Benefit Rate per Hour: \$8.07

### **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: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$36.77

Supplemental Benefit Rate per Hour: \$43.19

#### **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
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 (seven 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. No journeyperson engaged in fan maintenance shall work in excess of forty (40) hours in any work week.

(Local #28)



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## **Sheet Metal Specialty Worker**

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: 7/1/2013 - 7/31/2013

Wage Rate per Hour: \$41.28

Supplemental Benefit Rate per Hour: \$22.88

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

Effective Period: 8/1/2013 - 6/30/2014

Wage Rate per Hour: \$40.78

Supplemental Benefit Rate per Hour: \$23.38

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)

#### SIGN ERECTOR

(Sheet Metal, Plastic, Electric, and Neon)

#### Sign Erector

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$42.80

Supplemental Benefit Rate per Hour: \$42.17

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#### **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
Washington's Birthday
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 I

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$52.50

Supplemental Benefit Rate per Hour: \$50.54

Supplemental Note: Overtime supplemental benefit rate: \$100.34

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$53.25

Supplemental Benefit Rate per Hour: \$51.04

Supplemental Note: Overtime supplemental benefit rate: \$101.34

#### **Overtime**

Double time the regular rate after a 7 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

#### **Shift Rates**

Work performed between 3:30 P.M. and 7:00 A.M. and on Saturdays, Sundays and Holidays shall be at double time the regular hourly rate and paid at the overtime supplemental benefit rate above.

### Steamfitter II

For heating, ventilation, air conditioning and mechanical public works contracts with a dollar value not to exceed \$15,000,000 and for fire protection/sprinkler public works contracts not to exceed \$1,500,000.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$52.50

Supplemental Benefit Rate per Hour: \$50.54

Supplemental Note: Overtime supplemental benefit rate: \$100.34

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$53.25

Supplemental Benefit Rate per Hour: \$51.04

Supplemental Note: Overtime supplemental benefit rate: \$101.34

#### **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

#### **Shift Rates**

May be performed outside of the regular workday except Saturday, Sunday and Holidays. A shift shall consist of eight working hours. All work performed in excess of eight hours shall be paid at double time. No shift shall commence after 7:00 P.M. on Friday or 7:00 P.M. the day before holidays. All work performed after 12:01 A.M. Saturday or 12:01 A.M. the day before a Holiday will be paid at double time. When shift work is performed the wage rate for regular time worked is a thirty percent premium together with fringe benefits.

On Transit Authority projects, where work is performed in the vicinity of tracks all shift work on weekends and holidays may be performed at the regular shift rates.

**Local #638** 

# STEAMFITTER - REFRIGERATION AND AIR CONDITIONER (Maintenance and Installation Service Person)

## Refrigeration and Air Conditioner Mechanic

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$38.05

Supplemental Benefit Rate per Hour: \$12.26

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$38.30

Supplemental Benefit Rate per Hour: \$12.76

## Refrigeration and Air Conditioner Service Person V

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$31.26

Supplemental Benefit Rate per Hour: \$11.13

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$31.47

Supplemental Benefit Rate per Hour: \$11.55

## Refrigeration and Air Conditioner Service Person IV

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$25.90

Supplemental Benefit Rate per Hour: \$10.16

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$26.07

Supplemental Benefit Rate per Hour: \$10.52

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## Refrigeration and Air Conditioner Service Person III

Filter changing and maintenance thereof, oil and greasing, tower and coil cleaning, scraping and painting, general housekeeping, taking of water samples.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$22.23

Supplemental Benefit Rate per Hour: \$9.44

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$22.38

Supplemental Benefit Rate per Hour: \$9.76

## Refrigeration and Air Conditioner Service Person II

Filter changing and maintenance thereof, oil and greasing, tower and coil cleaning, scraping and painting, general housekeeping, taking of water samples.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$18.44

Supplemental Benefit Rate per Hour: \$8.78

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$18.56

Supplemental Benefit Rate per Hour: \$9.06

## Refrigeration and Air Conditioner Service Person I

Filter changing and maintenance thereof, oil and greasing, tower and coil cleaning, scraping and painting, general housekeeping, taking of water samples.

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$13.48

Supplemental Benefit Rate per Hour: \$8.10

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$13.57

Supplemental Benefit Rate per Hour: \$8,30

#### **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 #638B)

### STONE MASON - SETTER

## Stone Mason - Setters

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$47.72

Supplemental Benefit Rate per Hour: \$35.28

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$46.56

Supplemental Benefit Rate per Hour: \$36.40

#### **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
Memorial Day
Independence Day
Labor Day
Thanksgiving Day

**ADDENDUM 1** 

Christmas Day

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### 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: 7/1/2013 - 12/31/2013

Wage Rate per Hour: \$44.32

Supplemental Benefit Rate per Hour: \$21.66

Effective Period: 1/1/2014 - 6/24/2014

Wage Rate per Hour: \$44.82

Supplemental Benefit Rate per Hour: \$21.66

Effective Period: 6/25/2014 - 6/30/2014

Wage Rate per Hour: \$45.32

Supplemental Benefit Rate per Hour: \$21.66

#### 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** 

### 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

Time and one half the regular rate outside the regular work hours (8:00 A.M. through 3:30 P.M.)

(Local #1974)

# TELECOMMUNICATION WORKER (Voice Installation Only)

## **Telecommunication Worker**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$35.94

Supplemental Benefit Rate per Hour: \$13.19

Supplemental Note: The above rate applies for Manhattan, Bronx, Brooklyn, Queens. \$12.64 for Staten Island

only.

#### **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
Lincoln's Birthday
Washington's Birthday
Memorial Day
Independence Day
Labor Day
Columbus Day
Election Day
Veteran's Day
Thanksgiving Day

### Paid Holidays

**Christmas Day** 

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

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..... 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: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$38.49

Supplemental Benefit Rate per Hour: \$27.40

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$38.80

Supplemental Benefit Rate per Hour: \$28.03

#### **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** 

#### 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 (11/4) 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: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$48.35

Supplemental Benefit Rate per Hour: \$31.44

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$49.25

Supplemental Benefit Rate per Hour: \$31.82

#### **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 (1½) times the regular straight time rate of pay for the seven hours of actual off-shift work.

(Local #7)

#### **TIMBERPERSON**

## <u>Timberperson</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$42.63

Supplemental Benefit Rate per Hour: \$44.54

#### **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.

Time and one half the regular hourly rate after 40 hours in any work week.

#### **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

### **Paid Holidays**

None

#### **Shift Rates**

**Christmas Day** 

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.

(Local #1536)

#### TUNNEL WORKER

## Blasters, Mucking Machine Operators (Compressed Air Rates)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$54.20

Supplemental Benefit Rate per Hour: \$48.20

## <u>Tunnel Workers (Compressed Air Rates)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$52.31

Supplemental Benefit Rate per Hour: \$46.59

## **Top Nipper (Compressed Air Rates)**

Effective Period: 7/1/2013 - 6/30/2014

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**PUBLISH DATE: 1/20/2014** 

Wage Rate per Hour: \$51.35

Supplemental Benefit Rate per Hour: \$45.78

# <u>Outside Lock Tender, Outside Gauge Tender, Muck Lock Tender (Compressed Air Rates)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$50.42

Supplemental Benefit Rate per Hour: \$44.91

## Bottom Bell & Top Bell Signal Person: Shaft Person (Compressed Air Rates)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$50.42

Supplemental Benefit Rate per Hour: \$44.92

## Changehouse Attendant: Powder Watchperson (Compressed Air Rates)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$43.94

Supplemental Benefit Rate per Hour: \$42.55

## Blasters (Free Air Rates)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$51.72

Supplemental Benefit Rate per Hour: \$46.03

## **Tunnel Workers (Free Air Rates)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$49.48

Supplemental Benefit Rate per Hour: \$44.06

## All Others (Free Air Rates)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.73

Supplemental Benefit Rate per Hour: \$40.75

## Microtunneling (Free Air Rates)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$39.58

Supplemental Benefit Rate per Hour: \$35.25

## **Dvertime Description**

For Repair-Maintenance Work on Existing Equipment and Facilities - Time and one half the regular rate after a 7 hour day, or for Saturday, or for Sunday. Double time the regular rate for work on a holiday.

For Small-Bore Micro Tunneling Machines - Time and one-half the regular rate shall be paid for all overtime.

#### **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 Election Day Veteran's Day Thanksgiving Day Christmas Day

(Local #147)

WELDER
TO BE PAID AT THE RATE OF THE JOURNEYPERSON IN THE TRADE
PERFORMING THE WORK.

## OFFICE OF THE COMPTROLLER

## CITY OF NEW YORK

## 220 APPRENTICESHIP PREVAILING WAGE SCHEDULE

## **APPENDIX**

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 employed on a public work project.

Any employee listed on a payroll at an apprentice wage rate, who is not registered as above, shall be paid the journey person wage rate for the classification of work he 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.

# APPRENTICESHIP SCHEDULE OF PREVAILING WAGES AND SUPPLEMENTAL BENEFITS ADDENDUM

#### **EFFECTIVE PERIOD JANUARY 20, 2014 THROUGH JUNE 30, 2014**

#### **List of Amended Classifications**

- 1. ASBESTOS HANDLER
- 2. BRICKLAYER
- 3. FLOOR COVERER
- 4. HOUSE WRECKER
- 5. IRONWORKER ORNAMENTAL
- 6. IRON WORKER STRUCTURAL
- 7. MASON TENDER
- 8. PLASTERER
- 9. PLUMBER

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### **ASBESTOS HANDLER**

(Ratio of Apprentice Journeyperson: 1 to 1, 1 to 3)

## **Asbestos Handler (First 1000 Hours)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 78% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$15.05

Effective 1/20/2014 - Supplemental Benefits Per Hour: 15.45

## <u> Asbestos Handler (Second 1000 Hours)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$15.05

Effective 1/20/2014 - Supplemental Benefits Per Hour: 15.45

## Asbestos Handler (Third 1000 Hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 83% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$15.05

Effective 1/20/2014 - Supplemental Benefits Per Hour: 15.45

## <u> Asbestos Handler (Fourth 1000 Hours)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 89% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$15.05

Effective 1/20/2014 - Supplemental Benefits Per Hour: 15.45

(Local #78)

#### **BOILERMAKER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

## **Boilermaker (First Year)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 65% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$28.75

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

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Supplemental Benefit Rate Per Hour: \$29.74

## **Boilermaker (Second Year: 1st Six Months)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$30.33

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$31.40

## **Boilermaker (Second Year: 2nd Six Months)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$31.91

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$33.05

## **Boilermaker (Third Year: 1st Six Months)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 80% of Journeyperson's rat Supplemental Benefit Rate Per Hour: \$33.49

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rat Supplemental Benefit Rate Per Hour: \$34.69

## **Boilermaker (Third Year: 2nd Six Months)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 85% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$35.05

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 85% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$36.34

## **Boilermaker (Fourth Year: 1st Six Months)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 90% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$36.63

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 90% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$38.00

## **Boilermaker (Fourth Year: 2nd Six Months)**

Effective Period: 7/1/2013 - 12/31/2013

Wage Rate Per Hour: 95% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$38.19

Effective Period: 1/1/2014 - 6/30/2014

Wage Rate Per Hour: 95% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$39.65

(Local #5)

#### BRICKLAYER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

## **Bricklayer (First 750 Hours)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$16.60

Effective 1/20/2014 - Supplemental Benefits Per Hour: 17.10

## **Bricklayer (Second 750 Hours)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$16.60

Effective 1/20/2014 - Supplemental Benefits Per Hour: 17.10

## Bricklayer (Third 750 Hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$16.60

Effective 1/20/2014 - Supplemental Benefits Per Hour: 17.10

## Bricklayer (Fourth 750 Hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$16.60

Effective 1/20/2014 - Supplemental Benefits Per Hour: 17.10

## **Bricklayer (Fifth 750 Hours)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 90% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$16.60

Effective 1/20/2014 - Supplemental Benefits Per Hour: 17.10

#### **Bricklayer (Sixth 750 Hours)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 95% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$16.60

Effective 1/20/2014 - Supplemental Benefits Per Hour: 17.10

(Bricklayer District Council)

#### **CARPENTER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

#### Carpenter (First Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

#### Carpenter (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

# Carpenter (Third Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

# Carpenter (Fourth Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

(Carpenters District Council)

#### **CEMENT MASON**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

#### **Cement Mason (First Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's Rate

#### Cement Mason (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's Rate

#### **Cement Mason (Third Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 70% of Journeyperson's Rate

(Local #780)

#### **CEMENT AND CONCRETE WORKER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

### Cement & Concrete Worker (0 - 500 hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$18.04

# Cement & Concrete Worker (501 - 1000 hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$18.87

# Cement & Concrete Worker (1001 - 2000 hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$24.25

# Cement & Concrete Worker (2001 - 4000 hours)

Effective Period: 7/1/2013 - 6/30/2014

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Wage Rate Per Hour: 80% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$25.07

(Cement Concrete Workers District Council)

# **DERRICKPERSON & RIGGER (STONE)**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 6)

#### **Derrickperson & Rigger (stone) - First Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: 50% of Journeyperson's rate

#### Derrickperson & Rigger (stone) - Second Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

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EFFECTIVE PERIOD: JULY 1, 2013 THROUGH JUNE 30, 2014

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Supplemental Benefit Rate Per Hour: \$30.29

### Dockbuilder/Pile Driver (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

#### <u>Dockbuilder/Pile Driver (Third Year)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

#### Dockbuilder/Pile Driver (Fourth Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate Supplemental Benefit Rate Per Hour: \$30.29

(Carpenters District Council)

#### **ELECTRICIAN**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

# **Electrician (First Term: 0-6 Months)**

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$12.50

Supplemental Benefit Rate per Hour: \$10.86
Overtime Supplemental Rate per Hour: \$11.68

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$12.50

Supplemental Benefit Rate per Hour: \$11.10 Overtime Supplemental Rate per Hour: \$11.93

# Electrician (First Term: 7-12 Months)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$13.50

Supplemental Benefit Rate per Hour: \$11.37

Overtime Supplemental Rate per Hour: \$12.26

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$13.50

Supplemental Benefit Rate per Hour: \$11.62
Overtime Supplemental Rate per Hour: \$12.51

### Electrician (Second Term: 0-6 Months)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$14.50

Supplemental Benefit Rate per Hour: \$11.88

Overtime Supplemental Rate per Hour: \$12.83

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$14.50

Supplemental Benefit Rate per Hour: \$12.13
Overtime Supplemental Rate per Hour: \$13.08

#### Electrician (Second Term: 7-12 Months)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$15.50

Supplemental Benefit Rate per Hour: \$12.39
Overtime Supplemental Rate per Hour: \$13.41

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$15.50

Supplemental Benefit Rate per Hour: \$12.64
Overtime Supplemental Rate per Hour: \$13.66

# Electrician (Third Term: 0-6 Months)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$16.50

Supplemental Benefit Rate per Hour: \$12.90 Overtime Supplemental Rate per Hour: \$13.98

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$16.50

Supplemental Benefit Rate per Hour: \$13.15
Overtime Supplemental Rate per Hour: \$14.23

# Electrician (Third Term: 7-12 Months)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$17.50

Supplemental Benefit Rate per Hour: \$13.40
Overtime Supplemental Rate per Hour: \$14.56

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$17.50

Supplemental Benefit Rate per Hour: \$13.65

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Overtime Supplemental Rate per Hour: \$14.81

#### Electrician (Fourth Term: 0-6 Months - Hired on or after 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$18.50

Supplemental Benefit Rate per Hour: \$13.91
Overtime Supplemental Rate per Hour: \$15.13

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$18.50

Supplemental Benefit Rate per Hour: \$14.16
Overtime Supplemental Rate per Hour: \$15.38

#### Electrician (Fourth Term: 7-12 Months - Hired on or after 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$20.25

Supplemental Benefit Rate per Hour: \$14.80 Overtime Supplemental Rate per Hour: \$16.14

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$20.50

Supplemental Benefit Rate per Hour: \$15.18
Overtime Supplemental Rate per Hour: \$16.53

### Electrician (Fifth Term: 0-12 Months - Hired on or after 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$22.00

Supplemental Benefit Rate per Hour: \$17.30 Overtime Supplemental Rate per Hour: \$18.68

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$22.50

Supplemental Benefit Rate per Hour: \$18.06 Overtime Supplemental Rate per Hour: \$19.47

# Electrician (Fifth Term: 13-18 Months - Hired on or after 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$26.50

Supplemental Benefit Rate per Hour: \$19.56
Overtime Supplemental Rate per Hour: \$21.23

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$27.00

Supplemental Benefit Rate per Hour: \$20.32
Overtime Supplemental Rate per Hour: \$22.01

# Electrician (Fourth Term: 0-6 Months - Hired before 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$22.10

Supplemental Benefit Rate per Hour: \$15.74
Overtime Supplemental Rate per Hour: \$17.20

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$22.10

Supplemental Benefit Rate per Hour: \$15.99 Overtime Supplemental Rate per Hour: \$17.45

## Electrician (Fourth Term: 7-12 Months - Hired before 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$23.95

Supplemental Benefit Rate per Hour: \$16.69
Overtime Supplemental Rate per Hour: \$18.26

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$24.20

Supplemental Benefit Rate per Hour: \$17.06
Overtime Supplemental Rate per Hour: \$18.66

### Electrician (Fifth Term: 0-18 Months - Hired before 5/10/07)

Effective period: 7/1/2013 - 5/13/2014

Wage Rate per Hour: \$25.80

Supplemental Benefit Rate per Hour: \$19.21
Overtime Supplemental Rate per Hour: \$20.83

Effective period: 5/14/2014 - 6/30/2014

Wage Rate per Hour: \$26.30

Supplemental Benefit Rate per Hour: \$19.96
Overtime Supplemental Rate per Hour: \$21.61

#### **Overtime Description**

Overtime Wage paid at time and one half the regular rate For "A" rated Apprentices (work in excess of 7 hours per day) For "M" rated Apprentices (work in excess of 8 hours per day)

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(Local #3)

### **ELEVATOR CONSTRUCTOR**

[Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 2)

### Elevator (Constructor) - First Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$26.87

#### **Elevator (Constructor) - Second Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$27.92

#### **Elevator (Constructor) - Third Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: \$29.38

#### Elevator (Constructor) - Fourth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Rate Per Hour: \$30.84

(Local #1)

#### **ELEVATOR REPAIR & MAINTENANCE**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 2)

# **Elevator Service/Modernization Mechanic (First Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Benefit Per Hour: \$26.79

# Elevator Service/Modernization Mechanic (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Benefit Per Hour: \$27.12

# **Elevator Service/Modernization Mechanic (Third Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

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Supplemental Benefit Per Hour: \$28.43

# **Elevator Service/Modernization Mechanic (Fourth Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Benefit Per Hour: \$29.74

(Local #1)

#### **ENGINEER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 5)

#### **Engineer - First Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$22,49

Supplemental Benefit Rate per Hour: \$20.68

### **Engineer - Second Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$28.11

Supplemental Benefit Rate per Hour: \$20.68

# Engineer - Third Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$20.92

Supplemental Benefit Rate per Hour: \$20.68

## Engineer - Fourth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$33.73

Supplemental Benefit Rate per Hour: \$20.68

(Local #15)

### ENGINEER - OPERATING

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 5)

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### **Operating Engineer - First Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour 40% of Journeyperson's Rate

Supplemental Benefit Per Hour: \$18.60

#### **Operating Engineer - Second Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's Rate

Supplemental Benefit Per Hour: \$18.60

#### Operating Engineer - Third Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's Rate

Supplemental Benefit Per Hour: \$18.60

(Local #14)

#### **FLOOR COVERER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

# Floor Coverer (First Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$25.75

Effective 1/20/2014 - Supplemental Benefits Per Hour: 29.55

# Floor Coverer (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$25.75

Effective 1/20/2014 - Supplemental Benefits Per Hour: 29.55

# Floor Coverer (Third Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: \$25.75

Effective 1/20/2014 - Supplemental Benefits Per Hour: 29.55

### Floor Coverer (Fourth Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Rate Per Hour: \$25.75

Effective 1/20/2014 - Supplemental Benefits Per Hour: 29.55

(Carpenters District Council)

#### **GLAZIER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

#### **Glazier (First Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$11.97

#### Glazier (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$21.13

#### Glazier (Third Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$23.54

# Glazier (Fourth Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Rate Per Hour: \$28.34

(Local #1281)

#### **HEAT & FROST INSULATOR**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

### **Heat & Frost Insulator (First Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

### **Heat & Frost Insulator (Second Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

#### **Heat & Frost Insulator (Third Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 70% of Journeyperson's rate

#### **Heat & Frost Insulator (Fourth Year)**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

(Local #12)

# HOUSE WRECKER (TOTAL DEMOLITION)

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

# House Wrecker - First Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$20.36

Supplemental Benefit Rate per Hour: \$16.35

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$20.52

Supplemental Benefit Rate per Hour: \$16.60

# House Wrecker - Second Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$21.46

Supplemental Benefit Rate per Hour: \$16.35

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$21.67

Supplemental Benefit Rate per Hour: \$16.60

## House Wrecker - Third Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$23.01

Supplemental Benefit Rate per Hour: \$16.35

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$23.27

Supplemental Benefit Rate per Hour: \$16.60

#### House Wrecker - Fourth Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$25.36

Supplemental Benefit Rate per Hour: \$16.35

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$25.83

Supplemental Benefit Rate per Hour: \$16.60

(Local #79)

#### **IRON WORKER - ORNAMENTAL**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

# Iron Worker (Ornamental) - 1st Four Months - Hired on or Before 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$35.78

# Iron Worker (Ornamental) 5 - 10 Months - Hired on or Before 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: \$36.75

# Iron Worker (Ornamental) 11 - 16 Months - Hired on or Before 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Rate Per Hour: \$37.72

**ADDENDUM 1** 

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#### Iron Worker (Ornamental) 17 - 22 Months - Hired on or Before 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Rate Per Hour: \$39.66

#### <u>Iron Worker (Ornamental) 23 - 28 Months - Hired on or Before 8/1/08</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 85% of Journeyperson's rate

Supplemental Rate Per Hour: \$40.63

#### Iron Worker (Ornamental) 29 - 36 Months - Hired on or Before 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 95% of Journeyperson's rate

Supplemental Rate Per Hour: \$42.57

#### Iron Worker (Ornamental) - 1st Ten Months - Hired After 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$33.84

Effective 1/20/2014 - Supplemental Benefits Per Hour: 34.55

#### <u>Iron Worker (Ornamental) - 11 - 16 Months - Hired After 8/1/08</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$34.81

Effective 1/20/2014 - Supplemental Benefits Per Hour: 35.55

# Iron Worker (Ornamental) - 17 - 22 Months - Hired After 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$35.78

Effective 1/20/2014 - Supplemental Benefits Per Hour: 36.55

# Iron Worker (Ornamental) - 23 - 28 Months - Hired After 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Rate Per Hour: \$37.72

Effective 1/20/2014 - Supplemental Benefits Per Hour: 38.56

# Iron Worker (Ornamental) - 29 - 36 Months - Hired After 8/1/08

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Rate Per Hour: \$39.66

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Effective 1/20/2014 - Supplemental Benefits Per Hour: 40.56

(Local #580)

### **IRON WORKER - STRUCTURAL**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 6)

## Iron Worker (Structural) - 1st Six Months

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$24.48

Supplemental Benefit Rate per Hour: \$43.87

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$24.73

Supplemental Benefit Rate per Hour: \$45.07

#### Iron Worker (Structural) - 7- 18 Months

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$25.08

Supplemental Benefit Rate per Hour: \$43.87

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$25.33

Supplemental Benefit Rate per Hour: \$45.07

# Iron Worker (Structural) - 19 - 36 months

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$25.68

Supplemental Benefit Rate per Hour: \$43.87

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$25.93

Supplemental Benefit Rate per Hour: \$45.07

(Local #40 and #361)

# LABORER (FOUNDATION, CONCRETE, EXCAVATING, STREET PIPE LAYER & COMMON)

(Ratio Apprentice to Journeyperson: 1 to 1, 1 to 3)

# <u>Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - First</u> <u>1000 hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$33.25

# <u>Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - Second 1000 hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$33.25

# <u>Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - Third 1000 hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Rate Per Hour: \$33.25

# <u>Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - Fourth 1000 hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 90% of Journeyperson's rate

Supplemental Rate Per Hour: \$33.25

(Local #731)

#### **MARBLE MECHANICS**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

# **Cutters & Setters - First 750 Hours**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

NO BENEFITS PAID DURING THE FIRST TWO MONTHS (PROBATIONARY PERIOD)

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#### **Cutters & Setters - Second 750 Hours**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 55% of Journeyperson's rate

#### **Cutters & Setters - Third 750 Hours**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 65% of Journeyperson's rate

#### Cutters & Setters - Fourth 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's rate

#### Cutters & Setters - Fifth 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 85% of Journeyperson's rate

#### Cutters & Setters - Sixth 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 95% of Journeyperson's rate

### Polishers & Finishers - First 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

NO BENEFITS PAID DURING THE FIRST TWO MONTHS (PROBATIONARY PERIOD)

# Polishers & Finishers - Second 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

# Polishers & Finishers - Third 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's rate

# Polishers & Finishers - Fourth 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$20.63

Supplemental Benefit Rate per Hour: \$17.06

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$20.79

Supplemental Benefit Rate per Hour: \$17.58

#### **Mason Tender - Second Year**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$21.73

Supplemental Benefit Rate per Hour: \$17.06

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$21.94

Supplemental Benefit Rate per Hour: \$17.58

#### <u> Mason Tender - Third Year</u>

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$23.33

Supplemental Benefit Rate per Hour: \$17.06

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$23.59

Supplemental Benefit Rate per Hour: \$17.58

# **Mason Tender - Fourth Year**

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$25.93

Supplemental Benefit Rate per Hour: \$17.06

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$26.25

Supplemental Benefit Rate per Hour: \$17.58

#### **METALLIC LATHER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

## Metallic Lather (First Year -Called Prior to 6/29/11)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$28.11

Supplemental Benefit Rate per Hour: \$22.79

#### Metallic Lather (Second Year - Called Prior to 6/29/11)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$32.71

Supplemental Benefit Rate per Hour: \$24.44

### Metallic Lather (Third Year - Called Prior to 6/29/11)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$37.77

Supplemental Benefit Rate per Hour: \$25.59

# Metallic Lather (First Year -Called On Or After 6/29/11)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$17.71

Supplemental Benefit Rate per Hour: \$19.85

# Metallic Lather (Second Year - Called On Or After 6/29/11)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$22.81

Supplemental Benefit Rate per Hour: \$19.85

# Metallic Lather (Third Year - Called On Or After 6/29/11)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$27.91

Supplemental Benefit Rate per Hour: \$19.85

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(Local #46)

#### **MILLWRIGHT**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

#### Millwright (First Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$26.23

Supplemental Benefit Rate per Hour: \$31.51

#### Millwright (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$31.00

Supplemental Benefit Rate per Hour: \$34.77

#### Millwright (Third Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$35.77

Supplemental Benefit Rate per Hour: \$39.19

#### Millwright (Fourth Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$45.30

Supplemental Benefit Rate per Hour: \$44.63

(Local #740)

#### PAVER AND ROADBUILDER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

# Paver and Roadbuilder - First Year (Minimum 1000 hours)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$26.19

Supplemental Benefit Rate per Hour: \$16.20

# Paver and Roadbuilder - Second Year (Minimum 1000 hours)

Effective Period: 7/1/2013 - 6/30/2014

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Wage Rate per Hour: \$27.77

Supplemental Benefit Rate per Hour: \$16.20

(Local #1010)

#### **PAINTER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

## Painter - Brush & Roller - First Year

Effective Period: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$15.00

Supplemental Benefit Rate per Hour: \$11.38

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$15.80

Supplemental Benefit Rate per Hour: \$11.88

#### Painter - Brush & Roller - Second Year

Effective Period: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$18.75

Supplemental Benefit Rate per Hour: \$15.23

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$19.75

Supplemental Benefit Rate per Hour: \$15.73

#### Painter - Brush & Roller - Third Year

Effective Period: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$22.50

Supplemental Benefit Rate per Hour: \$18.14

Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$23.70

Supplemental Benefit Rate per Hour: \$18.64

### Painter - Brush & Roller - Fourth Year

Effective Period: 7/1/2013 - 4/30/2014

Wage Rate per Hour: \$30.00

Supplemental Benefit Rate per Hour: \$23.52

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Effective Period: 5/1/2014 - 6/30/2014

Wage Rate per Hour: \$31.60

Supplemental Benefit Rate per Hour: \$24.02

(District Council of Painters)

#### **PAINTER - STRUCTURAL STEEL**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

#### Painters - Structural Steel (First Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

#### Painters - Structural Steel (Second Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

### Painters - Structural Steel (Third Year)

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

(Local #806)

#### **PLASTERER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

### Plasterer - First Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$12.76

Effective 1/20/2014 - Supplemental Benefits Per Hour: 15.76

## Plasterer - First Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 45% of Journeyperson's rate

Supplemental Rate Per Hour: \$13.24

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Effective 1/20/2014 – Supplemental Benefits Per Hour: 16.24

### Plasterer - Second Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$15.21

Effective 1/20/2014 – Supplemental Benefits Per Hour: 18.21

#### Plasterer - Second Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$16.29

Effective 1/20/2014 - Supplemental Benefits Per Hour: 19.29

#### Plasterer - Third Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Rate Per Hour: \$18.46

Effective 1/20/2014 - Supplemental Benefits Per Hour: 21.46

### Plasterer - Third Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Rate Per Hour: \$19.54

Effective 1/20/2014 - Supplemental Benefits Per Hour: 22.54

(Local #530)

#### **PLUMBER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

# Plumber - First Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$14.00

Supplemental Benefit Rate per Hour: \$0.71

### Plumber - First Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$14.00

Supplemental Benefit Rate per Hour: \$2.96

ADDENDUM 1

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**PUBLISH DATE: 1/20/2014** 

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## Plumber - Second Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$18.26

Supplemental Benefit Rate per Hour: \$16.32

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$23.67

Supplemental Benefit Rate per Hour: \$11.16

#### Plumber - Third Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$20.36

Supplemental Benefit Rate per Hour: \$16.32

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$25.77

Supplemental Benefit Rate per Hour: \$11.16

#### Plumber - Fourth Year

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$23.21

Supplemental Benefit Rate per Hour: \$16.32

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$28.62

Supplemental Benefit Rate per Hour: \$11.16

# Plumber - Fifth Year: 1st Six Months

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$24.61

Supplemental Benefit Rate per Hour: \$16.32

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$30.02

Supplemental Benefit Rate per Hour: \$11.16

### Plumber - Fifth Year: 2nd Six Months

Effective Period: 7/1/2013 - 1/19/2014

Wage Rate per Hour: \$36.68

Supplemental Benefit Rate per Hour: \$16.32

Effective Period: 1/20/2014 - 6/30/2014

Wage Rate per Hour: \$42.09

Supplemental Benefit Rate per Hour: \$11.16

(Plumbers Local #1)

# POINTER - WATERPROOFER, CAULKER MECHANIC (EXTERIOR BUILDING RENOVATION)

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

# Pointer - Waterproofer, Caulker Mechanic - First Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$25.00

Supplemental Benefit Rate per Hour: \$3.64

# Pointer - Waterproofer, Caulker Mechanic - Second Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$27.25

Supplemental Benefit Rate per Hour: \$8.59

# Pointer - Waterproofer, Caulker Mechanic - Third Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$32.23

Supplemental Benefit Rate per Hour: \$11.34

# Pointer - Waterproofer, Caulker Mechanic - Fourth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$38.66

Supplemental Benefit Rate per Hour: \$11.34

(Bricklayer District Council)

#### ROOFER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 2)

# Roofer - First Year

and the second s

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 35% of Journeyperson's Rate

#### Roofer - Second Year

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's Rate

#### Roofer - Third Year

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's Rate

#### Roofer - Fourth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's Rate

(Local #8)

#### SHEET METAL WORKER

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

### **Sheet Metal Worker - First Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 30% of Journeyperson's rate

Supplemental Rate Per Hour: \$15.37

# **Sheet Metal Worker - Second Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 35% of Journeyperson's rate

Supplemental Rate Per Hour: \$18.24

# **Sheet Metal Worker - Third Year (1st Six Months)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$20.06

# **Sheet Metal Worker - Third Year (2nd Six Months)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 45% of Journeyperson's rate

Supplemental Rate Per Hour: \$21.87

# **Sheet Metal Worker - Fourth Year (1st Six Months)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$23.69

### Sheet Metal Worker - Fourth Year (2nd Six Months)

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$25.33

# **Sheet Metal Worker - Fifth Year (1st Six Months)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$27.47

# **Sheet Metal Worker - Fifth Year(2nd Six Months)**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Rate Per Hour: \$31.23

(Local #28)

#### SIGN ERECTOR

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

# Sign Erector - First Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 35% of Journeyperson's rate

Supplemental Rate Per Hour: \$5.96

# Sign Erector - First Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$6.75

# Sign Erector - Second Year: 1st Six Months

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Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 45% of Journeyperson's rate

Supplemental Rate Per Hour: \$7.55

#### Sign Erector - Second Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$8.34

#### Sign Erector - Third Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$9.13

#### Sign Erector - Third Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$9.92

#### Sign Erector - Fourth Year: 1st Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: \$10.72

### Sign Erector - Fourth Year: 2nd Six Months

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Rate Per Hour: \$11.51

# Sign Erector - Fifth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 75% of Journeyperson's rate

Supplemental Rate Per Hour: \$12.30

### Sign Erector - Sixth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Rate Per Hour: \$12.30

(Local #137)

#### **STEAMFITTER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)

### Steamfitter - First Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate and Supplemental Per Hour: 40% of Journeyperson's rate

#### Steamfitter - Second Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate and Supplemental Rate Per Hour: 50% of Journeyperson's rate.

#### Steamfitter - Third Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate and Supplemental Rate per Hour: 65% of Journeyperson's rate.

#### Steamfitter - Fourth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate and Supplemental Rate Per Hour: 80% of Journeyperson's rate.

#### Steamfitter - Fifth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate and Supplemental Rate Per Hour: 85% of Journeyperson's rate.

(Local #638)

#### **STONE MASON - SETTER**

(Ratio Apprentice of Journeyperson: 1 to 1, 1 to 2)

# Stone Mason - Setters - First 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

# Stone Mason - Setters - Second 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: 50% of Journeyperson's rate

**ADDENDUM 1** 

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### Stone Mason - Setters - Third 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

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: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

#### **Drywall Taper - Second Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

### **Drywall Taper - Third Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

(Local #1974)

#### **TILE LAYER - SETTER**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

#### <u> Tile Layer - Setter - First 750 Hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

#### Tile Layer - Setter - Second 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 55% of Journeyperson's rate

#### Tile Layer - Setter - Third 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 65% of Journeyperson's rate

#### <u> Tile Layer - Setter - Fourth 750 Hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's rate

# Tile Layer - Setter - Fifth 750 Hours

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 85% of Journeyperson's rate

## <u>Tile Layer - Setter - Sixth 750 Hours</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage and Supplemental Rate Per Hour: 95% of Journeyperson's rate

(Local #7)

#### TIMBERPERSON

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 6)

and the second s

## **Timberperson - First Year**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$30.04

#### Timberperson - Second Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: \$30.04

#### <u>Timberperson - Third Year</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: \$30.04

#### Timberperson - Fourth Year

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Rate Per Hour: \$30.04

(Local #1536)

# NYC ADMINISTRATIVE CODE § 6-109 SCHEDULE OF "LIVING WAGES".

Contractors who provide the following services to the City of New York must post a copy of this Living Wage Schedule at their work site(s) as required by New York City Administrative Code § 6-109:

- Building Services,
- Day Care Services,
- Food Services.
- Head Start Services.
- Homecare Services.
- Services to Persons with Cerebral Palsy, and
- Temporary Services.

In accordance with NYC Administrative Code § 6-109, the Comptroller of the City of New York promulgated this schedule of living wages for the above services on contracts for non-emergency work in excess of the small purchase limit set by the Procurement Policy Board; contracting agencies must annex this schedule to such contracts.

A city service contractor or subcontractor that provides homecare services, day care services, head start services or services to persons with cerebral palsy must pay its covered employees that directly render such services in performance of the city service contract or subcontract no less than the living wage and must provide its employees health benefits (supplemental benefits) or must supplement their hourly wage rate by an amount no less than the health benefits supplement rate. This requirement applies for each hour that the employee works performing the city service contract or subcontract.

A city service contractor or subcontractor that provides building services, food services or temporary services must pay its employees that are engaged in performing the city service contract or subcontract no less than the living wage or the prevailing wage, whichever is greater. Where the living wage is greater than the prevailing wage, the city service contractor or subcontractor must either provide its employees health benefits or must supplement their hourly wage rate by an amount no less than the health benefits supplement rate. Where the prevailing wage is greater than the living wage, the city service contractor or subcontractor must provide its employees the prevailing wage and supplements. These requirements apply for each hour that the employee works performing the city service contract or subcontract.

The appropriate schedule of living wages must be posted at all work sites pursuant to NYC Administrative Code 6-109.

The schedule is applicable for work performed during the effective period, unless otherwise noted. You will be notified of any changes to this schedule by addenda published on our web site www.comptroller.nyc.gov. Schedules for future one-year periods will be published annually in the City Record on or about July 1<sup>st</sup> of each succeeding year and on our web site www.comptroller.nyc.gov.

The living wage rate and the health benefit supplement rate are known through June 30 of each year and those rates are listed in this schedule.

The living wage rates listed in this schedule may not include all hourly wage calculations for vertime, shift differential, Holiday, Saturday, Sunday or other premium time work. Similarly, this schedule does not set forth every living wage practice with which employers must comply.

Some of the rates in this schedule are based on collective bargaining agreements. These agreements are available for inspection by appointment. Requests for appointments may be made by calling (212) 669-4443, Monday through Friday between the hours of 9 a.m. and 5 p.m.

Answers to questions concerning prevailing wage practices may be obtained from the Classification Unit by calling (212) 669-7974. Please direct all other compliance issues to; Bureau of Labor Law, Attn: Wasyl Kinach, P.E., Office of the Comptroller, 1 Centre Street, Room 1122, New York, N.Y. 10007; Fax (212) 669-4002.

Contractors are solely responsible for maintaining original payroll records, which delineate, among other things, the hours each employee worked within a given classification. Contractors using rates and/or classifications not promulgated by the Comptroller do so at their own risk. Additionally, prior to bid, an agency's chief contracting officer must contact the Bureau of Labor Law to obtain a wage determination for a work classification not published in this schedule.

The information listed below is intended to assist you in meeting your living wage and prevailing wage obligation. Contractors are advised to review the Comptroller's Living Wage Schedule prior to submitting a bid for City work. Any wage rate error made by the contracting agency in the contract documents will <u>not</u> preclude a finding against the contractor for an underpayment of the applicable living wage or the applicable prevailing wage.

This schedule sets forth the living wage and benefit rates required to be annexed to and form part of the contract specifications for work covered by New York City Administrative Code § 6-109. Contractors performing such work are required to pay not less that the rates specified in this schedule for the applicable trade or occupation.

Benefits are paid for <u>EACH HOUR WORKED</u> unless otherwise noted.

Wasyl Kinach, P.E.
Director of Classifications
Bureau of Labor Law

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# **BUILDING CLEANER AND MAINTAINER (OFFICE)**

For the above building service classification, see the Labor Law Section 230 Schedule.				
BUILDING CLEANER AND MAINTAINER (RESIDENTIAL)				
For the above building service classification, see the Labor Law Section 230 Schedule.	/ 			
CLEANER (PARKING GARAGE)				
For the above building service classification, see the Labor Law Section 230 Schedule.	· · · · · · · · · · · · · · · · · · ·			
DAY CARE SERVICES				

## **Day Care Services**

'Day Care Services' means provision of day care services through the city's center-based day care program administered under contract with the city's Administration for Children's Services. No other day care programs shall be covered, including family-based day care programs administered by city-contracted day care centers.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$10.00

Supplemental Benefit Rate per Hour: \$1.50

(NYC Administrative Code §6-109)

#### FOOD SERVICE EMPLOYEES

#### **Cook**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$15.62

Supplemental Benefit Rate per Hour: \$1.72

### Cafeteria Attendant

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$10,48

Supplemental Benefit Rate per Hour: \$1.72

#### Counter Attendant

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$9.95

Supplemental Benefit Rate per Hour: \$1.72

# Kitchen Helper / Dishwasher

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$9.60

Supplemental Benefit Rate per Hour: \$1.72

#### **Overtime**

Time and one half the regular hourly rate after 40 hours in any work week.

(Based on data from NYS Department of Labor Occupational Employment Statistics and US Department of Labor Bureau of Labor Statistics)

#### **GARDENER**

For the above building service classification, see the Labor Law Section 230 Schedule.

#### **HEAD START SERVICES**

# **Head Start Services**

'Head Start Services' means provision of head start services through the city's center-based head start program administered under contract with the city's Administration for Children's Services. No other head start programs shall be covered.

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$10.00

Supplemental Benefit Rate per Hour: \$1.50

NYC Administrative Code §6-109)

PUBLISH DATE: 7/1/2013 EFFECTIVE PERIOD: JULY 1, 2013 THROUGH JUNE 30, 2014 Page 5 of 8

#### HOMECARE SERVICES

### **Home Care Services**

'Homecare Services' means the provision of homecare services under the city's Medicaid Personal Care/Home Attendant or Housekeeping Programs, including but not limited to the In-Home Services for the Elderly Programs administered by the Department for the Aging.

For homecare services provided under the Personal Care Services program, the wage and supplemental benefit rate above shall apply only as long as the state and federal government maintain their combined aggregate proportionate share of funding and approved rates for homecare services in effect as of the date of the enactment of this section.

For contractors or subcontractors providing homecare services, the supplemental benefit rate may be waived by the terms of a bona fide collective bargaining agreement with respect to employees who have never worked a minimum of eighty (80) hours per month for two consecutive months for that covered employer, but such provision may not be waived for any employee once a minimum of eighty (80) hours for two consecutive months has been achieved.

Effective Period: 7/1/2013 - 6/30/2014 Wage Rate per Hour: \$10.00

Supplemental Benefit Rate per Hour: \$1.50

(NYC Administrative Code §6-109)

# SECURITY GUARD (ARMED)

For the above building service classification, see the Labor Law Section 230 Schedule.

# **SECURITY GUARD (UNARMED)**

For the above building service classification, see the Labor Law Section 230 Schedule.

#### SERVICES TO PERSONS WITH CEREBRAL PALSY

# Services To Person With Cerebral Palsy

'Services to Persons with Cerebral Palsy' means provision of services which enable persons with cerebral palsy and related disabilities to lead independent and productive lives through an agency that provides health care, education, employment, housing and technology resources to such persons under contract with the city or the department of education.

PUBLISH DATE: 7/1/2013 EFFECTIVE PERIOD: JULY 1, 2013 THROUGH JUNE 30, 2014 Page 6 of 8

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$10.00

Supplemental-Benefit Rate per Hour: \$1.50

(NYC Administrative Code §6-109)

# **TEMPORARY OFFICE SERVICES**

# **Administrative Assistant**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$32.83

Supplemental Benefit Rate per Hour: None

### <u>Cashier</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$11.50

Supplemental Benefit Rate per Hour: None

### <u>Clerk (various)</u>

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$14.86

Supplemental Benefit Rate per Hour: None

# Computer Assistant

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$21.23

Supplemental Benefit Rate per Hour: None

# **Data Entry Operator**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$16,21

Supplemental Benefit Rate per Hour: None

# Receptionist

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$14.88

Supplemental Benefit Rate per Hour: None

# ecretary (various)

PUBLISH DATE: 7/1/2013 EFFECTIVE PERIOD: JULY 1, 2013 THROUGH JUNE 30, 2014 Page 7 of 8

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$18.66

Supplemental Benefit Rate per Hour: None

# **Word Processor**

Effective Period: 7/1/2013 - 6/30/2014

Wage Rate per Hour: \$20.02

Supplemental Benefit Rate per Hour: None

#### **Overtime**

Time and one half the regular hourly rate after 40 hours in any work week.

(Based on data from NYS Department of Labor Occupational Employment Statistics and US Department of Labor Bureau of Labor Statistics or NYC Administrative Code §6-109)

#### WINDOW CLEANER

For the above building service classification, see the Labor Law Section 230 Schedule.

PUBLISH DATE: 7/1/2013 EFFECTIVE PERIOD: JULY 1, 2013 THROUGH JUNE 30, 2014 Page 8 of 8



# 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:

Re:

Leonard A. Mancusi

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



# INFRASTRUCTURE DIVISION BUREAU OF DESIGN

# VOLUME 2 OF 3

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto
BOROUGH OF QUEENS
CITY OF NEW YORK

C.A.C. Industri	es, Inc
C.A.C. Industri 85014-80067001/8	502013HWDD61C
Dated December	21 , 2014
APPROVED AS TO FORM	
CERTIFIED AS TO LEGAL AUTHORIT	Y D 1/23/14
	Acting Corporation Counsel
Dated May 23	, 20/4



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

30-30 THOMSON AVENUE LONG ISLAND CITY, NEW YORK 11101-3045 TELEPHONE (718) 391-1000 WEBSITE www.nyc.gov/buildnyc

LAW

**VOLUME 3 OF 3** 

SCHEDULE A
ADDENDA NOS. 1 TO 3

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

PROJECT ID: HWQ985

**ROADWAY IMPROVEMENTS IN** 

**SHORE ROAD** 

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto
BOROUGH OF QUEENS
CITY OF NEW YORK



FOR THE DEPARTMENT OF TRANSPORTATION PREPARED BY HAZEN AND SAWYER

**APRIL 11, 2014** 

#### SPECIFICATIONS AND STANDARDS OF NEW YORK CITY

The following NYC Department of Transportation reference documents are available on-line at:

http://www.nyc.gov/html/ddc/html/pubs/pubs\_infrastdts.shtml or for purchase between 9:00 A.M. and 3:00 P.M. at 55 Water St., Ground Floor, NYC, N.Y. 10041. Contact: Ms Vivian Valdez, Tel. (212) 839-9434

- 1. New York City Standard Highway Specifications, November 1, 2010
- 2. New York City Standard Highway Details of Construction, July 1, 2010
- 3. New York City Division of Street Lighting Specifications
- 4. New York City Division of Street Lighting Standard Drawings
- 5. New York City Standard Specifications for Traffic Signals
- 6. New York City Standard Drawings for Traffic Signals

The following reference documents for Sewer Work are available on-line at: <a href="http://www.nyc.gov/html/ddc/html/pubs/pubs\_infrastdts.shtml">http://www.nyc.gov/html/ddc/html/pubs/pubs\_infrastdts.shtml</a> or for pick up 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. Contact: Mr. William Patalano, Tel. (718) 391-2054

- 1. New York City DEP Standard Sewer Specifications, August 1, 2009
- 2. New York City DEP Instructions for Concrete Specifications, Jan. 92
- 3. New York City DEP General Specification 11-Concrete, November 1991
- 4. New York City DEP Sewer Design Standards, (September 2007) Revised January 2009

The following reference documents for Water Mains Work are available online at: <a href="http://www.nyc.gov/html/ddc/html/pubs/pubs\_infrastdts.shtml">http://www.nyc.gov/html/ddc/html/pubs/pubs\_infrastdts.shtml</a> or for pick up 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. Contact: Mr. Robert Kuhlmann, Tel. (718) 391-2145

- 1. New York City Department of Environmental Protection, Standard Water Main Specifications, dated August 1, 2009
- 2. New York City Department of Environmental Protection Water Main Standard Drawings
- 3. Specifications for Trunk Main Work, dated March 2012
- 4. Standards for Green Infrastructure, latest version, available only on-line at: <a href="http://www.nyc.gov/html/dep/pdf/green">http://www.nyc.gov/html/dep/pdf/green</a> infrastructure/bioswales-standard-designs.pdf

The water main work material specifications are available at the Department of Environmental Protection, 59-17 Junction Boulevard, 3rd Floor Low-Rise Building, Flushing, N.Y. 11373-5108.

Contact: Mr. Tarlock Sahansra, P.E., Tel. (718) 595-5302 E-mail: TSAHANSRA@DEP.NYC.GOV

Standard Specifications and Drawings for Fire Department Communications facilities of New York City are available at 87 Union Street, Engineering Office, Brooklyn, N.Y. 11231-1416.
Contact: Mr. Ed Durkin, Tel. (718) 624-3752

Tree Planting Standards of the City of New York Parks & Recreation are available at the following Department of Parks & Recreation website: <a href="http://www.nycgovparks.org/pagefiles/53/Tree-Planting-Standards.pdf">http://www.nycgovparks.org/pagefiles/53/Tree-Planting-Standards.pdf</a>

#### SPECIFICATIONS AND STANDARDS OF PRIVATE UTILITIES

The Following reference document for Private Utility Work is available for pick up 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.

1. CET SPECIFICATIONS AND SKETCHES dated November 2010

(NO TEXT ON THIS PAGE)

# **SCHEDULE A**

### (GENERAL CONDITIONS TO CONSTRUCTION CONTRACT (INCLUDING GENERAL CONDITIONS RELATED TO ARTICLE 22 – INSURANCE)

#### **PART I. REQUIRED INFORMATION**

INFORMATION FOR BIDDERS SECTION 26	
BID SECURITY	
The Contractor shall obtain a bid security in the	See Attachment 1 (page A-1 of the Bid
amount indicated to the right.	Booklet).
INFORMATION FOR BIDDERS SECTION 26	
PERFORMANCE AND PAYMENT BONDS	
The Contractor shall obtain performance and payment	See Attachment 1 (page A-1 of the Bid
bonds in the amount indicated to the right.	Booklet).
CONTRACT ARTICLE 14.	, , , , , , , , , , , , , , , , , , ,
DATE FOR SUBSTANTIAL COMPLETION	See Page SA-4
The Contractor shall substantially assumb to the XV sub-	
The Contractor shall substantially complete the Work in the number of calendar days indicated to the right.	
CONTRACT ARTICLE 15. LIQUIDATED DAMAGES	\$1,500. for each consecutive calendar
EIQUIDATED DAMAGES	day over substantial completion time
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.	
CONTRACT ARTICLE 17.	
SUB-CONTRACTOR	Not to exceed 50% of the Contract price
The Contractor shall not make subcontracts totaling on	
The Contractor shall not make subcontracts totaling an amount more than the percentage of the total Contract	•
price indicated to the right.	
CONTRACT ARTICLE 21. RETAINAGE	5 % of the value of the <b>Work</b>
RETAINAGE	
The Commissioner shall deduct and retain until the	
substantial completion of the Work the percent value of	
the Work indicated to the right.	

CONTRACT ARTICLE 22.	See pages SA-5 through SA-10			
(Per Directions Below)				
(1 et Directions Delow)				
CONTRACT ARTICLE 24.	104 0.5			
DEPOSIT GUARANTEE	1% of Contract price			
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.				
CONTRACT ARTICLE 24.				
PERIOD OF GUARANTEE	Thirty-Six (36) Months for BMP Landscaping			
Desir In Consists of the state	Work			
Periods of maintenance and guarantee other than the	For all other work:			
period set forth in Article 24.1 are indicated to the right.	Eighteen (18) Months, excluding Trees			
	Twenty-four (24) Months for Tree Planting			
CONTRACT ARTICLE 74.				
STATEMENT OF WORK				
The Contractor shall furnish all labor and materials and	See Contract Article 74			
perform all <b>Work</b> in strict accordance with the				
Contract Drawings, Specifications, and all Addenda				
thereto.	·			
thereto.				
CONTRACT ARTICLE 75.				
COMPENSATION TO BE PAID TO CONTRACTOR	·			
The City shall pay and the Contractor shall accept in				
full consideration for the performance of the Contract,	See Contract Article 75			
subject to additions and deductions as provided in				
Contract Article 75, 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.	•••			
CONTRACT ARTICLE 78.	C MANDELLIN C DI CA DI			
PARTICIPATION BY MINORITY-OWNED AND	See M/WBE Utilization Plan in the Bid			
WOMEN-OWNED BUSINESS ENTERPRISES IN CITY	Booklet			
<b>PROCUREMENT</b>	·			

# STANDARD HIGHWAY SPECIFICATIONS SECTION 6.40 LIQUIDATED DAMAGES FOR ENGINEER'S FIELD OFFICE

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.

\$ 250.00 for each calendar day of deficiency

# STANDARD HIGHWAY SPECIFICATIONS SECTION 6.70 LIQUIDATED DAMAGES FOR MAINTENANCE AND PROTECTION OF TRAFFIC

- \$ 250.00 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
- \$ 500.00 for each and every hour of failing to open the entire width of roadway to traffic the morning following a night/weekend work operation

# STANDARD HIGHWAY SPECIFICATIONS SECTION 7.13 LIQUIDATED DAMAGES FOR MAINTENANCE OF SITE

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.

\$ 250.00 for each calendar day, for each occurrence

#### **Date for Substantial Completion**

(Reference: Article 14)

The Contractor shall substantially complete the Work n.

The Base Contract Duration for this project is 455 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

<u>Note</u>: 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
■ Commercial General Liability Art. 22.1.1	The minimum limits shall be \$ 3,000,000 per occurrence and \$ 6,000,000 per project aggregate applicable to this <b>Contract.</b>
	Additional Insureds: 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, and
	2. All person(s) or organization(s), if any, that Article 22.1.1(b) of the <b>Contract</b> 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. Consolidated Edison.

		W. 1 . 2
Workers' Compensation	Art. 22.1.2	Workers' Compensation, Employers' Liability, and Disability Benefits Insurance: Statutory
■ Disability Benefits Insurance	Art. 22.1.2	per New York State law without regard to
■ Employers' Liability	Art. 22.1.2	jurisdiction.
☐ Jones Act	Art. 22.1.3	Note: The following forms are acceptable: (1) New York State Workers' Compensation
☐ U.S. Longshoremen's and Harbon Compensation Act	r Workers Art. 22.1.3	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.
		Jones Act and U.S. Longshoremen's and Harbor Workers' Compensation Act: Statutory per U.S. Law.
☐ Builders' Risk	Art. 22.1.4	100 % of total value of Work
		Contractor the Named Insured; the City both an Additional Insured and one of the loss payees as its interests may appear.
		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.
		Note: Builders Risk Insurance may terminate upon <b>Substantial Completion</b> of the <b>Work</b> in its entirety.
Commercial Auto Liability	Art. 22.1.5	\$ 2,000,000 per accident combined single limit
		If vehicles are used for transporting hazardous materials, the <b>Contractor</b> shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90
		Additional Insureds:
		(1) City of New York, including its officials and employees, and

☐ Contractors Pollution Liability	Art. 22.1.6	\$_5,000,000 per occurrence \$_5,000,000 aggregate
		Additional Insureds: 1. City of New York, including its officials and employees, and 2 3
☐ Marine Protection and Indemnity	Art. 22.1.7(a)	\$each occurrence \$aggregate Additional Insureds:
		1. City of New York, including its officials and employees, and 2
☐ Hull and Machinery Insurance	Art. 22.1.7(b)	\$per occurrence \$aggregate
		Additional Insureds:
.*		1. City of New York, including its officials and employees, and
		3
☐ Marine Pollution Liability	Art. 22.1.7(c)	\$_1,000,000_ per occurrence \$_1,000,000_ aggregate
		Additional Insureds:
		1. City of New York, including its officials and employees, and
		2
		3

#### [OTHER]

Art. 22.1.8

☐ Railroad Protection Liability Policy

(ISO-RIMA or equivalent form) approved by Permittor 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:

- 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
  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>2,000,000</u> per occurrence

\$ <u>6,000,000</u> annual aggregate

Named Insureds:

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.

[OTHER] Art. 22.1.8

#### Professional Liability

- 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.
- 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.

[OTHER]

Art. 22.1.8

■ Engineer's Field Office

Section 6.40, Standard Highway Specifications

Fire insurance, extended coverage and vandalism, malicious mischief and burglary, and theft insurance coverage in the amount of \$40,000

[OTHER]

Art. 22.1.8

■ The Following Additional Insurance Must Be Provided:

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.

# SCHEDULE A (GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 – INSURANCE)

#### PART III. BROKER'S CERTIFICATION

Pursuant to Article 22.3.3 of the **Contract**, every Certificate of Insurance must be accompanied by either the following certification by the broker setting forth the following text and required information and signatures or certified copies of all policies referenced in the Certificate of Insurance.

#### **CERTIFICATION BY BROKER**

The undersigned insurance broker represents to the City of New York that the attached Certificate of Insurance is accurate in all material respects, and that the described insurance is effective as of the date of this Certification.

	[Name of broker (typewritten)]
	[Address of broker (typewritten)]
	[Email address of broker (typewritten)]
	[Phone number/Fax number of broker (typewritten)]
	[Signature of authorized official or broker]
	[Name and title of authorized official (typewritten)]
State of)	
) ss.: County of)	
Sworn to before me this day	
NOTARY PUBLIC FOR THE STA	TE 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 TEXT ON THIS PAGE)

#### ATTACH TO CONTRACT DOCUMENTS

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

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto

BOROUGH OF QUEENS CITY OF NEW YORK

ADDENDUM NO. 1

DATED: February 24, 2014

#### THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

The New York City Department of Transportation Standard Highway Specifications, dated November 1, 2010, (which include, but are not limited to, "General Conditions", "Basic Materials of Construction", "Combined Materials of Construction", "Construction Methods", "Inspection and Testing of Materials, Adjustments for Deficiencies, and Maintenance", and "Supplemental Construction Methods"), as modified by addenda issued prior to the opening of bids, shall apply to and become a part of the contract.

All references contained herein are to the New York City Department of Transportation, Standard Highway Specifications, dated November 1, 2010. The said Specifications are hereby revised. Included hereunder are the following REVISIONS:

- 1. Amendments to Standard Highway Specifications, Volume I
- 2. Amendments to Standard Highway Specifications, Volume II, including Section 7.88 (Revised) and new Sections 6.44 PO and 6.52 CG.
- 3. New Sections
- 4. Special Provisions

1. AMENDMENTS TO STANDARD HIGHWAY SPECIFICATIONS, VOLUME I

The following amendments to the Contract Requirements shall become a part of and apply to the contract:

#### [Added 12-09-2010]

1. Refer to Page 15, Subsection 1.06.23.(C) CONFORMANCE WITH FEDERAL, STATE AND CITY AGENCIES;

Add the following new paragraphs:

"The Contractor is notified that all vehicles that are owned, leased or operated by the Contractor or its subcontractors and used in connection with the Project shall comply with the following requirement:

Every truck, tractor, and tractor-trailer or semitrailer combination, having a gross vehicle weight rating of twenty-six thousand pounds or more, and a conventional cab configuration in which more than half of the engine length is forward of the foremost point of the windshield base, and the steering wheel hub is in the forward quarter of the vehicle length shall be equipped with a convex mirror on the front of such vehicle or combination of vehicles. Such convex mirror shall be adjusted so as to enable the operator of such vehicle or combination of vehicles to see all points on an imaginary horizontal line which is three feet above the road, is one foot directly forward from the midpoint of the front of such vehicle or combination of vehicles, and extends the full width of the front of such vehicle or combination of vehicles.

Any vehicle that does not comply with this provision may be prohibited from entering the Project site and/or supplying equipment or materials to the Project. The Contractor shall not be entitled to any damages as a result of such prohibition."

#### [Added 01-09-2011]

2. Refer to Page 240, Subsection 4.16.5.(B) STUMP REMOVAL;

Delete Subsection 4.16.5.(B) STUMP REMOVAL, in its entirety:

Substitute the following revised Subsection 4.16.5.(B):

#### "(B) STUMP REMOVAL

- 1. Tree stumps designated to be removed and their roots shall be completely excavated to a minimum depth of three (3) feet below the existing grade. A portable stump cutter may be required in some locations. It may be necessary to remove concrete, asphalt, pavers, and/or other types of material surrounding the base of the stump. All excess debris, including chips from tree stumps, shall be removed and disposed of by the Contractor, away from the site prior to backfilling and the area shall be restored by completion of the workday, to the satisfaction of the Engineer. The disposal of tree stumps by burning in open fires will not be permitted.
- 2. All voids and excavations left after the removal of the stump and roots shall be backfilled to grade with clean earth fill. Fill shall be placed and compacted to a minimum of 95 percent of Standard Proctor Maximum Density by acceptable methods to the satisfaction of the Engineer. Where paving blocks exist, they are to be reset to the existing grade as directed.
- 3. Maximum safety and care must be used by Contractor during stump removal. The Contractor shall carefully protect against damage all existing trees, plants, curbs, sidewalks and utilities and other features to remain. The Contractor is responsible for locating and protecting underground utilities from damage during stump removal procedures. During stump grinding operations, plywood must be used to protect adjacent vehicles, real property, and pedestrians. If, when removing stumps, existing sidewalks or curbs are disturbed, the Contractor shall restore and/or reset these sidewalks and curbs, at no additional cost to the City. Restoration work shall be done to match the existing, to the satisfaction of the Engineer. All damaged trees, curbs, sidewalks, real property, vehicles and utilities must be addressed within three (3) days."

#### [Added 04-18-2011]

3. Refer to Pages 218 and 219, Subsection 4.13.4.(H) PIGMENT;

Delete the first three (3) paragraphs on page 219:

Substitute the following revised three (3) paragraphs.

"Where the color of the concrete is required to simulate the color of dark gray bluestone, the concrete shall be integrally pigmented to produce a gray color equivalent to: Davis Colors No. 884-3%; Lansco Color No. 437 "Strong Black" 5 lbs. per 94 lbs. Light Grey Portland Cement and 3 parts sand; L.M. Scofield "Cool Black No. 4"; Bayferrox Limestone 330, 2 lbs. per 94 lbs. Light Gray Portland Cement; or an approved equivalent, unless otherwise specified.

Where the color of the concrete is required to simulate the color of light to medium gray granite, the concrete shall be integrally pigmented to produce a gray color equal to: Davis Colors No. 884-1%; Lansco Color No. 437 "Strong Black" 2.5 lbs. per 94 lbs. Light Grey Portland Cement and 3 parts sand; L.M. Scofield "Cool Black No. 1"; Bayferrox Silver 330, 1 lb. per 94 lbs. Light Gray Portland Cement; or an approved equivalent, unless otherwise specified.

Where the sidewalk is designated to have a saw cut joint finish the color of the concrete shall be integrally pigmented to produce a gray color equivalent to L.M. Scofield "Landmarks Grey" K-157-4; L.M. Scofield "Cool Black No. 4"; Davis Colors No. 884-3%; Lansco Color No. 437 "Strong Black" 5 lbs. per 94 lbs. Light Grey Portland Cement and 3 parts sand; Bayferrox NYC Landmark Commission Gray, 3.5 lbs. per 94 lbs. Light Gray Portland Cement; or an approved equivalent, unless otherwise specified."

#### [Added 07-01-2011]

- 4. Refer to Page 14, Subsection 1.06.23.(A) PERMITS; Delete line (b) under the first paragraph; Substitute the following text:
  - "(b) Any planned work requiring a DOT Construction Permit that may potentially be within 100 feet of a bridge structure will be placed on a Bridge Hold. If any proposed work is within 100 feet of a bridge structure, permittees must submit a scaled drawing showing the work and exact location, along with the following:
    - Plan layout of the project area.
    - The scope of work.
    - The contractor's means and methods.
    - Indicate if work will be done of the bridge itself or its abutments, and the type of work.

If the work is more than 100 feet away from the bridge structure, permittees may send a certification by e-mail stating so. Either response must be sent to the Division of Bridges at bridgeshold@dot.nyc.gov for review and release prior to commencing work. Emergency work will not be placed on hold and shall proceed in accordance with the New York City Highway Rules, section 2-11 (g);

(c) Permits from the Department of Sanitation for use of City landfills;"

#### [Added 07-27-2011]

- 5. Refer to Page 37, Subsection 1.06.46.(A) 6. Sign Graphics;

  Delete article "a." beginning with the words "All visual components of the sign are in an Adobe \*.pdf file, . . ." and ending with the words ". . . DDC to the Contractor (on a CD or via E-mail) for printing.", in its entirety;

  Substitute the following revised article "a":
  - "a. All visual components of the sign are in an Adobe \*.pdf file, which is provided by the Commissioner's representative. The file is not to be altered for composition, type font or image from the version provided by DDC. The Commissioner's representative shall provide a complete file with data and image. The digital file shall be provided by DDC to the Contractor (on a CD or via E-mail) for printing."

#### [Added 09-27-2012]

6. Refer to Page 36, Subsection 1.06.46. Project Sign;

Delete the words "Unless otherwise specified in the Special

Provisions of the contract, the following shall apply:";

Substitute the following revised text:

"The Contractor is notified that he shall be required to furnish, install, maintain, and remove, when directed, Construction Project Information Signs (CPIS) as per Sec. 2-02(c)(4) and (5) of the NYC DOT Highway Rule and the cost shall be deemed included under all scheduled items of the contract. In addition, unless otherwise specified in the Special Provisions of the contract, the following Project Sign shall also apply:"

#### [Added 04-08-2013]

7. Refer to Page 200, Subsection 4.11.2.(B), first paragraph, sixth line;

Delete the word "porcelain,".

8. Refer to Page 201, Subsection 4.11.3.(B) FILL AND BACKFILL, second and third paragraphs;

Delete the second and third paragraphs under Subsection 4.11.3.(B), in their entirety; Substitute the following revised two paragraphs:

"Glass or Recycled Porcelain Aggregate (RPA) from recycling facilities that meets the requirements of **Subsection 4.11.3.(E)** for Glass and **Subsection 4.11.3.(F)** for RPA shall be considered suitable material for mixing with fill provided the Contractor maintains the gradations specified herein. However, glass shall not be placed in contact with synthetic liners, geogrids, geotextiles or other geosynthetics.

Glass and/or RPA incorporated into fill shall be thoroughly mixed with other suitable material so that glass, RPA or combination of both constitutes no more than 30 percent by volume anywhere in the fill as visually determined by the Engineer."

- 9. Refer to Page 202, Subsection 4.11.3.(E) GLASS;
  Add the following new Subsection 4.11.3.(F) RECYCLED PORCELAIN
  AGGREGATE (RPA):
  - "(F) RECYCLED PORCELAIN AGGREGATE (RPA)

All porcelain to be used as RPA shall be crushed by a New York City Department of Environmental Protection (NYCDEP) approved recycling facility to a maximum particle size of 3/8 inch and graded to meet the gradation specified above for use in either fill, backfill or select fill, as may be required. RPA from any other source will not be permitted. The NYCDEP approved recycling facility will also certify that the RPA being furnished is free from organic material and other unsuitable material.

Should the Contractor desire to use RPA in his fill or backfill material, he shall contact Mr. Vasyl Kravchyk at NYCDEP (Tel. No. 718-595-7512) to determine the availability of RPA and from which recycling facility it can be obtained.

The Contractor shall be required to make arrangement with the recycling plant, at least two (2) weeks in advance of when he would need the material, to schedule the time, date and quantity available for pickup. The Contractor shall be required to furnish the recycling facility with a complete list of his trucks involved in transporting the material, which shall include the name of the registered owner (Contractor), Consumer Affairs or DOS Permit numbers, body license plate number, and truck volume. This information must be supplied to the facility prior to the start of picking up the RPA.

Weight ticket receipt slips given by the recycling facility to each truck driver picking up RPA shall be collected by the Contractor and given to the Engineer upon delivering fill or backfill material to the site that contains RPA, and the Contractor agrees and warrants that in obtaining the RPA that such material has originated only from a NYCDEP approved recycling plant and it has not been mixed with porcelain material from any other source.

The Contractor shall be required to transport said material from the approved recycling facility to his yard for storage and mixing with his fill material; however, there is not guarantee that the material will actually be available.

The Contractor is advised that there is no guarantee that RPA will in fact be available for his use from a NYCDEP approved recycling plant and he shall make no claim against the City for loss of anticipated profits should the material not be available upon request by the Contractor.

All excess RPA not used in the fill or backfill shall remain the property of the DDC Contractor.

The Contractor must comply with all rules and regulations of the Department of Transportation and the Department of Environmental Protections governing the use of RPA in its fill and backfill material."

10. Refer to Pages 218 and 219, Subsection 4.13.4.(H) PIGMENTING, first four paragraphs;

Delete the first four paragraphs under Subsection 4.13.4.(H), in
 their entirety;
Substitute the following revised four paragraphs:

"Where pigmenting is specified, the concrete sidewalks shall be pigmented with an admixture complying with the requirements of **Section 2.19** and the following requirements:

'Commercial Gray': In commercial districts C4–4 through C4–7, C5 and C6, as defined in the Zoning Resolution of the City of New York, and in areas under the jurisdiction of the Lower Manhattan Development Corporation the color of the concrete shall be integrally pigmented to produce a gray color equivalent to L.M. Scofield 'Landmarks Grey' K-157-4; L.M. Scofield 'Cool Black No. 4'; Davis Colors No. 884-3%; Lansco Color No. 437 'Strong Black' 5 lbs. per 94 lbs. Light Grey Portland Cement and 3 parts sand; Bayferrox NYC Landmark Commission Gray, 3.5 lbs. per 94 lbs. Light Gray Portland Cement; or an approved equivalent, unless otherwise specified.

'Bluestone': Where the color of the concrete is required to simulate the color of dark gray bluestone, the concrete shall be integrally pigmented to produce a gray color equivalent to: Davis Colors No. 884-3%; Lansco Color No. 437 'Strong Black' 5 lbs. per 94 lbs. Light Grey Portland Cement and 3 parts sand; L.M. Scofield 'Cool Black No. 4'; Bayferrox Limestone 330, 2 lbs. per 94 lbs. Light Gray Portland Cement; or an approved equivalent, unless otherwise specified.

'Granite': Where the color of the concrete is required to simulate the color of light to medium gray granite, the concrete shall be integrally pigmented to produce a gray color equal to: Davis Colors No. 884-1%; Lansco Color No. 437 'Strong Black' 2.5 lbs. per 94 lbs. Light Grey Portland Cement and 3 parts sand; L.M. Scofield 'Cool Black No. 1'; Bayferrox Silver 330, 1 lb. per 94 lbs. Light Gray Portland Cement; or an approved equivalent, unless otherwise specified."

#### [Added 05-24-2013]

- 11. Refer to Page 14, Subsection 1.06.23.(A) PERMITS, first paragraph as modified by Article 4 on page A1-1b;
  Add the following new text:
  - "(d) All necessary permits from the Department of Environmental Protection which may include, but are not limited to, permits for use of City water."
- 12. Refer to Page 14, Subsection 1.06.23.(A) PERMITS, second paragraph;

  Add the following as the third paragraph:

"No fee permits for use of City water necessary to complete roadway pavement reconstruction project in conjunction with installation of sewers and/or water mains, will be issued by the Department of Environmental Protection. However, for all other type projects (such as installation of sidewalks, installation of pedestrian ramps, pavement milling, resurfacing, rehabilitation of retaining walls, and bridge reconstruction type projects) the Contractor will be required to obtain the water use permit at its own cost."

#### [Added 08-05-2013]

- 13. Refer to page 116, second paragraph up from the bottom of the page, first line;
  - <u>Change</u> the words "Concrete of Type IA and IIA shall have . . ." to read "Concrete of Type IA, IIA and IIIA shall have . . ."

#### [Added 09-04-2013]

- 14. Refer to page 100, Subsection 3.01.3.(C)1.(c);
  - <u>Delete</u> the last two lines of text beginning with the words "The proportion of reclaimed asphalt pavement permitted within each mix...";
  - <u>Substitute</u> the following sentence: "The proportion of reclaimed asphalt pavement permitted within each mix shall be not less than 30 percent for the top and bottom courses as per Local Law #71 of 2011."
- 15. Refer to page 110, Subsection 3.05.2.(A), Table 3.05-I;

  Insert the following text at the bottom of Table 3.05-I:
  - "Note: The above proportions shown for non-High-Early mixes shall be modified by pozzolan substitutes as per **Subsection 3.05.4**."

16. Refer to page 112, Subsection 3.05.3.(C), second paragraph;

Delete the second paragraph in its entirety;

Substitute the following paragraph:

"Water shall be potable and drawn from municipal water mains."

17. Refer to page 113, first line of text, beginning with the words "condition making up one (1) cubic yard of concrete.";

<u>Insert</u> the following sentence between the words "condition making up one (1) cubic yard of concrete." and "The range of water-cement ratio within which the . . . ":

"The calculated yield of the mix shall be within ± 2% of the Theoretical (1) cubic yard."

18. Refer to Page 113, second paragraph beginning with the words "The Contractor may substitute Portland cement . . .";

Delete the second paragraph under Subsection 3.05.4., in its entirety;

Substitute the following revised paragraph:

"With the exception of high-early strength concrete, the Contractor shall be required to substitute Portland cement with pozzolans (Fly Ash or GGBFS) such that the maximum amount of Portland cement per cubic yard of concrete does not exceed 400 pounds, and with the use of an approved non-corrosive, non-chloride admixture as required to obtain a minimum compressive strength of 3,000 psi in seven (7) days. For high-early strength concrete the Contractor may substitute Portland cement with pozzolans (Fly Ash or GGBFS), pound for pound, up to 20% (or up to 25% for tidal/sea water spray areas) of the weight of cement specified for any concrete mixture provided the Contractor can obtain a minimum compressive strength of 3,000 p.s.i. in three (3) days. The Contractor, immediately following but not later than eight weeks after the date of the Contractor's Notice to Proceed, shall file with the Engineer, Age-Strength data of the job mix he proposes to use for the various ambient temperatures anticipated during the period of concrete placement. This data shall be presented in both tabular and graphical form for those various ambient temperatures with a maximum setting period of seven (7) days for Class B-32 concrete or seventy-two (72) hours for High-Early Strength Concrete."

- 19. Refer to Page 115, TABLE 3.05-III INGREDIENT MATERIALS;

  Change in the third row, second column, the type of Portland

  Cement from "Type III\*" to read "Type II or Type III\*"
- 20. Refer to page 132, Subsection 3.06.3.(D);
  Change the words "Water shall be drawn from mains owned by The City of New York." to read "Water shall be potable and drawn from municipal water mains."
- 21. Refer to page 133, Subsection 3.07.3.(D);

  Change the words "Water shall be drawn from mains owned by or supplying water to The City of New York." to read "Water shall be potable and drawn from municipal water mains."
- 22. Refer to page 134, Subsection 3.08.4.(D);

  Change the words "Water shall be drawn from mains owned by or supplying water to The City of New York." to read "Water shall be potable and drawn from municipal water mains."

- 23. Refer to Page 166, Subsection 4.05.2.(A);

  Delete Subsection 4.05.2.(A), in their entirety;

  Substitute the following revised Subsection 4.05.2.(A):
- "(A) Concrete Pavement shall be of the following types:

Type 1--Non-reinforced

Type 2--Reinforced (Unpigmented or pigmented if specified)

Type 3--High Early Strength Reinforced (Unpigmented or pigmented if specified)

Type 2 and Type 3 pavements shall consist of a concrete surface course, which shall be unpigmented or pigmented if specified, laid on a concrete base course, which may or may not be pigmented at the Contractor's option, while the base course is still plastic, of the thickness shown on the Contract Drawings, with reinforcement placed between the surface and base courses."

24. Refer to Page 166, Subsection 4.05.3.(A);
Insert the following new Subsection 4.05.3.(A1):

"(A1) PIGMENTING

Where pigmenting is specified, the surface course of the concrete bus pad shall be pigmented with an admixture complying with Section 2.19 and the following requirements:

Where the color of the concrete is required to simulate the red color of the Red Bus Lane Pavement Overlay (Item 6.44 POR in Section 6.44 PO), the surface course concrete shall be integrally pigmented to produce a red color equivalent to Scofield's quarry red.

Except for the use of an air-entraining agent complying with ASTM Designation C 260 and water reducing admixtures complying with ASTM Designation C 494 used in combination with the Pigment Admixture as per the pigment manufacturer's instruction, no other admixtures (including, but not limited to, calcium chloride) shall be used unless stated in writing by the manufacturer of the Pigment Admixture to be of no consequence to the colorfastness of the concrete mixture and is approved by the Engineer.

All pigmented concrete at different locations shall be identical, unless otherwise directed. Variations in color/tint/hue will not be acceptable. Therefore, the same brand and type of cement and the same source and type of aggregate shall be used throughout the project.

Prior to the mix design being made, the cement intended for use shall be checked to determine that its lightness/darkness is similar to the cement used in the original approved sample. The Pigmented Admixture shall be added in the standard proportion specified by the manufacturer."

25. Refer to Page 170, Subsection 4.05.5.(A) GENERAL;

Insert the following two new paragraphs:

"For pigmented concrete, the Contractor shall within eight weeks of the notice to proceed, submit the name of its proposed roadway installer upon which his bid is based, along with their respective work history experience in placing pigmented concrete. The installer shall have documented experience in working with pigmented concrete.

Prior to making any field samples and the placing of any pigmented concrete, the Contractor, its concrete supplier, installer, cement producer, laboratory, the pigmented admixture's representative, and the Engineer shall meet and agree on the specifications and methods of handling the pigmented concrete."

- 26. Refer to Page 183, Subsection 4.05.9. PRICES TO COVER, 4<sup>th</sup> line;

  Insert in the fourth line, the words "pigment when specified" between the words "specifications, including, but not limited to," and "furnishing and installing...":
- 27. Refer to Page 183, Subsection 4.05.9. PRICES TO COVER;

  Insert the following two new Items to the list of Item Nos. at the bottom of Subsection 4.05.9:
- "4.05 ACP REINFORCED CONCETE PAVEMENT (BUS STOPS)(PIGMENTED) C.Y.
- 4.05 AXP HIGH-EARLY STRENGTH REINFORCED CONCRETE PAVEMENT (BUS STOPS)(PIGMENTED) C.Y."

2. AMENDMENTS TO STANDARD HIGHWAY SPECIFICATIONS, VOLUME II

#### [Added 01-25-2012]

1. Refer to Pages 365 and 366, Subsection 6.40.2.(C)(c)(1) Personal Computer(s) - Workstation Configuration;

Delete the text under Subsections (a), (b), (c), (d), (h), (i),

and (m), in their entirety;
Substitute the following revised text:

"(a) Make and Model: Dell; HP; Gateway; Acer; or, an

approved equivalent. (Note: an approved equivalent requires written approval of the Assistant

Commissioner of ITS.)

(b) Processor: i5-2400 (6MB Cache, 3.1GHz) or

faster computer - Single Processor.

(c) System Ram: Minimum of 4GB (Gigabytes) Dual

Channel DDR3 SDRAM at 1333MHz – 2 DIMMSs

(d) Hard Disk Drive(s): 500 GB (Gigabytes) Serial ATA

(7200RPM) w/DataBurst Cache, or

larger."

"(h) Video Display Card: HD Graphics (VGA, HDMI) with a

minimum of 64 MB of RAM.

(i) Monitor: 22" W, 23.0 Inch VIS, Widescreen,

VGA/DVI LCD Monitor."

"(m) Software Requirements: Microsoft Windows 7 Professional

SP1, 64 bit; Microsoft Office Professional 2010; Microsoft Project 2010; Adobe Acrobat reader; Anti-Virus software package with 2 year updates subscription; and, either Auto Cad 2012 LT or Microsoft Visio 2010 Standard Edition, as directed by

the Engineer."

2. Refer to Page 366, Subsection 6.40.2.(C)(c)(2)(b);

Delete the text under Subsection (b), which begins with the words

"(b) One (1) 600 DPI HP Laser Jet . . ", in its entirety;

Substitute the following revised text:

"(b) One (1) 600 DPI HP Color Laser Jet all-in-one
Printer/Scanner/Copier/Fax (twelve (12) pages per minute or
faster) with one (1) Extra Paper Tray (Legal Size) networked
to all office computers."

3. Refer to Page 367, Subsection 6.40.3. SPECIFIC REQUIREMENTS FOR ENGINEERS FIELD OFFICE (TYPE A, B, C, CU, D OR DU), first paragraph;

<u>Delete</u> the text in the first paragraph of **Subsection 6.40.3.**, in its entirety;

Substitute the following revised text:

**6.40.3.** SPECIFIC REQUIREMENTS FOR ENGINEER'S FIELD OFFICE (TYPE A, B, C, CU, D, OR DU). In addition to the general requirements, each type of Field Office shall have the minimum floor area indicated in Table 6.40-I calculated based on usable area only, excluding any loss factors. Loss factors are defined as those areas such as lobby, sidewalk window ledge, elevator shafts and stairways. The Contractor shall provide and maintain furnishings for each type of Field Office in the quantity specified in Table 6.40-I. The furnishings shall be new or used equipment satisfactory to the Engineer:

Refer to Page 368, TABLE 6.40-I, ADDITIONAL REQUIREMENTS SPECIFIC REQUIREMENTS; Delete the requirements for a Photocopy Machine shown in the 15th row of TABLE 6.40-I, in its entirety; Substitute the following revised requirements: Photocopying Machine - Stand-alone, heavy duty, electric, dry-1 1 process color photocopying type with a minimum production rate of 70 pages per minute and an adequate supply of sopy paper. toner, etc. The machine shall be capable of duplex copying paper sizes of 8-1/2 x 11 inches, 8-1/2 x 14 inches and 11 x 17 inches, and have separate trays for each paper size. It shall have a document feeder, collator, stapler, and the capability to reduce/enlarge copies between each paper size. The supply of each size copy paper, toner, etc. shall be replenished and the machines shall be maintained for the duration of the contract by the Contractor as required by the Engineer. Make and model can be Minolta, Canon, IBM, Epson, or an approved equivalent, and shall be networked to the office computers.

5. Refer to Page 368, Table 6.40-1, Additional requirements specific Requirements;

Insert the following two additional requirements:

Heavy duty commercial grade diamond cut shredder with	1	1	1	1	1	1
automatic start. The shredder shall be able to receive 8-1/2 inch				1		
wide paper and shred a minimum of 15 sheets simultaneously						
along with CDs and staples.						
Projector – 1080p LCD with a min. of 2200 ANSI Lumins, 1920 x	-		1	1	1	1
1080, 16:9, 40,000:1 contrast ratio, HDMI, VGA, USB, and a 10						
feet diagonal, 16:9 Projection Screen.	}					

6. Refer to Page 496, Subsection 7.20.4. METHODS, last paragraph beginning with the words "When directed by the Engineer, due to the original conditions . . .";

Add the following sentence to the end of the last paragraph under Subsection 7.20.4:

"However, if the owner at his own expense supplies the replacement frame and doors or hatch covers the Contractor shall install the replacement frame and doors or hatch covers under this Item 7.20, as a basement access reset, in lieu of the steel safety closure plate."

#### [Added 07-16-2012]

7. Refer to Page 365, Subsection 6.40.2.(C)(c)(1) "Personal Computer(s) - Workstation Configuration";

Delete the text under Subsections (g) and (k), in their entirety;
Substitute the following revised text:

"(g) I/O Ports:

Must have at least one (1) Serial

Port, one (1) Parallel Port, and

three (3) USB Ports.

(k) Network Interface:

Integrated 10/100/1000 Ethernet

card."

- 8. Refer to Page 366, Subsection 6.40.2.(C)(c)(2) "All field offices requiring computers shall be provided with the following:";

  Delete the text under Subsection (a), in its entirety;
  Substitute the following revised text:
  - '(a) One (1) broad-band internet service account. Wideband Internet connectivity at a minimum throughput of 15 Mbps download and 5 Mbps upload is required at each field office location with 1-5 staffers. For larger field offices see table below for minimum required upload speeds. Telephone service should be bundled together with Internet connectivity. Because of throughput requirements Verizon FIOS is the preferred connectivity provider where available.

Office Personnel #	Upload Speeds (Minimum)
1 - 5	5 Mbps
6 - 10	10 Mbps
11 - 15	15 Mbps
16 - 20	20 Mbps

This account will be active for the life of the project. The e-mail name for the account shall be the DDC Field Office/project Id (e.g. FLD K HWK666 McGuinness@earthlink.com)."

#### [Added 08-09-2012]

- Refer to Page 366, Subsection 6.40.2.(C)(c)(b), as amended by Article 2 on page A1-2 of this Addendum; Delete the text under Subsection (b), in its entirety; Substitute the following words: "(b) (No Text)."
- 10. Refer to Page 368, TABLE 6.40-I, ADDITIONAL REQUIREMENTS SPECIFIC REQUIREMENTS; Delete the requirements for a Photocopy Machine shown in the 15th

row of TABLE 6.40-I, as modified by Article 4 on page A1-2a of this Addendum, in its entirety;

Substitute the following revised requirements:

Photocopying Machine – Stand-alone, heavy duty, electric, dry-process color photocopying type with color scan and send capability via e-mail, a minimum production rate of 70 pages per minute and an adequate supply of copy paper, toner, etc. The machine shall be capable of duplex copying paper sizes of 8-1/2 x 11 inches, 8-1/2 x 14 inches and 11 x 17 inches, and have separate trays for each paper size. It shall have a document feeder, collator, stapler, and the capability to reduce/enlarge copies between each paper size. The supply of each size copy paper, toner, etc. shall be replenished and the machines shall be maintained for the duration of the contract by the Contractor as required by the Engineer. Make and model can be Minolta, Canon, IBM, Epson, or an approved equivalent, and shall be	1	1	1	1	1	1
networked to the office computers.						

#### [Added 11-26-2012]

11. Refer to Pages 504 through 508, SECTION 7.88 - Rodent and Waterbug Pest Control;

Delete Section 7.88, in its entirety;

Substitute SECTION 7.88 (Revised), as contained on the following pages A1-2d through A1-2i.

[Added 02-08-2013]

12. (NO TEXT)

# SECTION 7.88 (Revised) Rodent and Waterbug Pest Control

- **7.88.1. DESCRIPTION.** The Contractor shall provide all labor, materials, plant and equipment, and incidentals required to survey and monitor rodent activity and control any infestation or outbreak of rodents and waterbugs (American cockroaches) within the project limit.
- **7.88.2. MATERIALS.** All materials shall be approved by the New York State Department of Environmental Conservation and comply with the New York City Health Code for the intended usage.

Rodenticide weatherproof bait blocks shall be multiple dose anticoagulants such as Chlorophacinone or Dephacinone, or single feed rodenticides such as ContraMeal, ContracBait block, Quintox pellets or TalonG pellets, or an approved equivalent.

Tamper proof bait station boxes shall be designed to exclude other mammals and shall be used with poisoned bait to attract rats. Information on "tamper proof bait station boxes" is available from the NYC Bureau of Regulatory & Environmental Health Services, Pest Control Office (718-956-7103/4).

Live traps shall be of proper dimensions for trapping rats and shall <u>not</u> be used with poisoned bait.

Insecticide bait shall be a residual type such as phenol methyl carbamate (2%) bait or an approved equivalent.

#### (A) SUBMITTALS

Prior to commencement of construction activities the Contractor shall submit to the Engineer manufacturer's installation instructions for all materials required for rodent and waterbug pest control work and product data which shall include illustrations, catalog data, product characteristics, typical use, performance, and limitation criteria of all rodent and waterbug pest control materials required.

- **7.88.3. PERSONNEL.** The Contractor shall employ two independent licensed exterminators: one to engage in survey and monitoring work to establish the level of infestation of rodents and insects and provide recommendations for specific Integrated Pest Management (IPM) actions, and one to execute the rodent and waterbug pest control work to deal with such infestations. All pest control personnel employed by each exterminator company must be supervised by an exterminator licensed in categories 7A & 8. The Contractor shall submit the names and license credentials of the two exterminator companies to the Engineer for approval prior to the commencement of any work under this section.
- **7.88.4. METHODS.** Application and dosage of all materials shall be done in strict compliance with the manufacturer's recommendations. All surveying, monitoring, baiting, and/or live trapping work shall be performed in the presence of the Engineer, without which no payment will be made under this Section.

#### (A) GENERAL

The Contractor's construction activity is expected to disturb any established rodent and/or waterbug population that may exist within the project limits, possibly causing their dispersion. The Contractor shall take all appropriate action to eliminate and/or control these populations within the construction corridor: the construction corridor shall be defined as being the full width of streets under the contract and intersecting streets up to the limits of construction, from property line to property line, excluding buildings and under sidewalk building vaults.

Under the Maintenance of Site requirements for the contract, any unsanitary conditions, such as uncollected garbage or debris, resulting from the Contractor's activities which will provide food and shelter to the resident rodent population shall be corrected by the Contractor immediately after notification of such condition by the Engineer. Non-compliance shall be subject to the application of the "Nonconformance" provisions of the Item for Maintenance of Site, and no payment will be made for any additional application of rodenticide or insecticide needed to control resultant infestations.

#### (B) SURVEY AND MONITORING WORK

- (1) Prior to Construction The Contractor's designated survey and monitoring exterminator shall execute a survey of the project area and estimate the level of rodent (Norway rat, House mouse) infestation and the waterbug population within the construction corridor. An appropriate sample of utility manholes (sewer, electrical, telephone, etc.) and catch basins should be opened and surveyed to the satisfaction of the Engineer. Contractor shall maintain all survey records in the manner described in 7.88.6., Records and Reports.
- (2) <u>During Construction</u> The Contractor shall monitor the rodent activity through trapping (snap, glue traps or live traps), fecal count methods, and inspection of the conditions of all installed baits every week during construction activity or as otherwise directed by the Engineer. Contractor shall maintain all monitoring records in the manner described in 7.88.6., Records and Reports.

#### (C) RODENT CONTROL WORK

- (1) Wetlands, Woodlands and Areas Within Seventy-five (75') feet of a Stream. In wetlands, woodlands and areas adjacent to a stream, special precautions must be taken to protect water quality and to ensure the safety of other wildlife. To prevent poisoned bait from entering streams, no poisoned bait shall be used in areas within seventy-five (75') feet of either streambank. Live traps must be used in these seventy-five (75') feet buffer zone areas and within wetland and woodland areas.
- (2) Outside Wetland Areas, Woodland Areas and Beyond Seventy-five (75') feet of a Stream. In areas outside the seventy-five foot zone of protection adjacent to streams, and areas outside wetlands and woodlands, tamper proof bait stations with poisoned bait shall be established during the period of construction and any consumed or decomposed bait shall be replenished as directed.

Rodent control shall be achieved in two stages as follows:

Stage I. At least one month prior to initiation of the construction work, and periodically thereafter, live traps and/or rodenticide bait, as directed above, shall be placed at locations [e.g., burrows, utility manholes (sewer, electrical, phone, etc.), and catch basins] that are inaccessible to pets, human beings, children and other non-target species, particularly wildlife (e.g., birds) in the construction corridor. Locations of initial bait placement and quantities of bait shall be determined by the survey and monitoring exterminator's written report of his survey and monitoring results, or as otherwise directed by the Engineer.

Stage II. <u>During Construction</u> - Infested sites as determined by the survey and monitoring exterminator's monitoring report shall be baited and/or rebaited, and live traps shall be collected and replaced, the rates and quantities of which shall be determined by the written monitoring reports submitted weekly or as otherwise directed by the Engineer in consultation with the City's Office of Pest Control.

The baiting exterminator shall be responsible for collecting and disposing of all trapped and poisoned rodents found in live traps and tamper proof bait stations. The baiting exterminator shall also be responsible for posting and maintaining signs announcing the baiting of each particular location.

The Contractor, under his maintenance of site operations, shall be responsible for the immediate collection and disposal of any visible rodent remains found on streets or sidewalk within the project limits. Any visible remains shall be placed into double plastic bags. No more than five (5) carcasses shall be placed into each bag. Each bag shall be a minimum of 3 mils thick, black plastic. No additional payment will be made for this work.

It is anticipated that public complaints will be addressed to the Engineer's Field Office. The Contractor, where directed by the Engineer, shall take appropriate Integrated Pest Management (IPM) actions, such as baiting, trapping, proofing, etc., to remedy the source of a complaint within the next six (6) hours of normal working time, which is defined herein, for the purposes of this section, as 7 A.M. to 6 P.M. on Mondays through Saturdays.

#### (D) WATERBUG (AMERICAN COCKROACH) CONTROL

Infested sites (e.g., sewers) shall be baited at least 2 times per month with insecticides, or as directed by the Engineer in consultation with the exterminator monitoring the work and the City's Office of Pest Control.

**7.88.5. EDUCATION & TRAINING.** The Contractor shall post notices in all Construction Bulletin Boards advising workers, employees, and residents to call the Engineer's Field Office to report rodent and waterbug infestations. The Contractor shall provide and distribute literature pertaining to IPM techniques of rodent control to affected businesses and superintendents of nearby residential buildings to ensure their participation in maintaining their establishments free of unsanitary conditions, harborage removal and rodent proofing.

Prior to application of any chemicals, the Contractor shall furnish copies or sample labels for each pesticide, antidote information, and Material Data Safety Sheets (MSDS) for each chemical used.

#### 7.88.6. RECORDS AND REPORTS.

#### (A) GENERAL

The Contractor shall be responsible for assigning within the construction corridor an identifying number to each manhole, catch basin, and other location where bait and/or live trap placement and/or waterbug control work is proposed by the survey and monitoring exterminator. The Contractor shall then provide that list of locations and corresponding reference numbers along with a drawing showing the locations, as a reference for the exterminator(s) performing the work, to indicate locations of bait placement and waterbug control work and rodent and waterbug activity (droppings, bait consumed, dead rodents, etc.).

#### (B) SURVEY AND MONITORING WORK

- (1) Prior to Construction Contractor shall submit to the Engineer, for approval, a written survey report including proposed IPM procedures, including specific materials, quantities, locations, methods, and time schedule for the implementation of the exterminating work. The written report shall also include a survey with a drawing (provided by the Contractor) marked with locations indicating all signs of rodent (Norway rat, House mouse) infestation and waterbug activity discovered during the execution of the survey indicating that rodent and waterbug pest control work is necessary.
- (2) <u>During Construction</u> Based on monitoring results, Contractor shall submit to the Engineer a weekly written monitoring report identifying all locations and conditions of installed bait and/or other rodent control work. The monitoring report shall also include any other recommended IPM techniques, such as baiting, trapping, proofing, etc., proposed for rodent and waterbug pest control.

The survey and monitoring exterminator shall keep a record of all rodent and waterbug infestation surveys s/he has conducted. The Contractor shall be required to submit a copy of all survey and monitoring reports to the Engineer each week, prior to payment.

#### (C) RODENT AND WATERBUG CONTROL WORK

The baiting exterminator shall maintain records of all locations baited along with the type and quantity of rodenticide and insecticide bait used. These records will be kept by the City Inspector. A weekly report shall be prepared, signed and certified by the approved licensed exterminator, and such reports shall be submitted to the Engineer each week, prior to payment.

**7.88.7. NONCONFORMANCE.** If the Contractor fails to perform as directed to control the rodent and/or waterbug population at any location within the project limits for a period of more than one week, the Engineer will correct the adverse conditions by any means he deems appropriate, including but not limited to, the use of "outside services" and shall deduct the cost of the corrective work from any monies due to the Contractor. The deducted cost of this work shall be in addition to the non-payment for rodent and waterbug pest control.

#### 7.88.8. MEASUREMENT.

#### (A) RODENT INFESTATION SURVEY AND MONITORING

The quantity to be measured for payment under Item No. 7.88 AA, RODENT INFESTATION SURVEY AND MONITORING, shall be a Lump Sum measurement.

#### (B) RODENT BAIT STATIONS

The quantity to be measured for payment under Item No. 7.88 AB, RODENT BAIT STATIONS, shall be the number of tamper-proof rodent bait station boxes and/or live traps satisfactorily installed or reinstalled after inspection within the construction corridor, as approved by the Engineer. However, the initial baiting, and subsequent rebaiting as may be required, of any bait station will be paid for under Item 7.88 AC.

#### (C) BAITING OF RODENT BAIT STATIONS

The quantity to be measured for payment under Item No. 7.88 AC, BAITING OF RODENT BAIT STATIONS, shall be the number of tamper-proof rodent bait station boxes, utility manholes, catch basins, or other locations approved by the Engineer, satisfactorily baited or rebaited to replenish consumed or decomposed bait within the construction corridor, as approved by the Engineer.

#### (D) WATERBUG BAIT APPLICATION

The quantity to be measured for payment under Item No. 7.88 AD, WATERBUG BAIT APPLICATIONS, shall be the number of blocks satisfactorily treated with insecticide bait within the construction corridor, as approved by the Engineer. A block shall be defined as the area of street, measured between property lines, from intersection to intersection. Each rebaiting of any block shall be considered as a new block for measurement purposes.

#### 7.88.9. PRICES TO COVER.

#### (A) RODENT INFESTATION SURVEY AND MONITORING

Payment will be made at the lump sum price bid for RODENT INFESTATION SURVEY AND MONITORING which shall include the cost of furnishing all the labor, materials, plant, equipment (traps, etc.), insurance, and other incidentals required, including but not limited to providing all required maintenance of traffic equipment, to perform a rodent infestation survey of the project area and then monitor the site each week for rodent activity, all in accordance with the specifications and the directions of the Engineer.

Ten (10%) percent of the lump sum price bid will be paid when the initial survey of the project area has been completed and the written survey report has been submitted to the satisfaction of the Engineer. The remainder will be paid in proportion to the percentage of contract completion.

#### (B) RODENT BAIT STATIONS

The Contract price bid for RODENT BAIT STATIONS shall be a unit price per each tamper proof bait station box and/ or live trap installed or reinstalled after inspection and shall cover the cost of furnishing all labor, materials, plant, equipment (bait stations, etc.), insurance, and other incidentals, including but not limited to providing all required maintenance of traffic equipment, required to control the rodent population found within the project limits in accordance with the specifications and the directions of the Engineer.

In addition to the payment for Rodent Bait Stations installed or reinstalled under this Item 7.88 AB, the Contractor will also be paid for each baiting or rebaiting, when required, of each bait station, under Item No. 7.88 AC.

#### (C) BAITING OF RODENT BAIT STATIONS

The Contract price bid for BAITING OF RODENT BAIT STATIONS shall be a unit price per each bait station, utility manhole, catch basin or other location approved by the Engineer satisfactorily baited or rebaited, when required, and shall cover the cost of furnishing all labor, materials, plant, equipment (bait), insurance, and other incidentals, in accordance with the specifications and directions of the Engineer. Installation or resetting of the bait station will be paid for under Item 7.88 AB.

#### (D) WATERBUG BAIT APPLICATION

The Contract price bid for WATERBUG BAIT APPLICATION shall be a unit price per block treated by the exterminator and shall include the cost of furnishing all the labor, materials, plant, equipment (bait, etc.), insurance, and other incidentals, including but not limited to providing all required maintenance of traffic equipment, necessary to control the waterbug population found within the project limits for the duration of the contract in accordance with the specifications and the directions of the Engineer.

#### Payment will be made under:

Item No.	Item	Pay Unit
7.88 AA 7.88 AB	RODENT INFESTATION SURVEY AND MONITORING RODENT BAIT STATIONS	L.S. EACH
7.88 AC	BAITING OF RODENT BAIT STATIONS	EACH
7.88 AD	WATERBUG BAIT APPLICATION	BLOCK

#### [Added 05-24-2013]

- 13. Refer to Page 366, Subsection 6.40.2.(C)(c)(1)(m) Software
  Requirements, as modified by Article 1 on page A1-2;
  Delete the text under Subsection (m), in its entirety;
  Substitute the following revised text:
  - "(m) Software Requirements: Microsoft Windows 7 Professional SP1, 32 bit; Microsoft Office Professional 2010; Microsoft Project 2010; Adobe Acrobat reader; Anti-Virus software package with 2 year updates subscription; and, either Auto Cad LT or Microsoft Visio Standard Edition, as directed by the

Engineer."

#### [Added 09-04-2013]

14. Refer to Page 384, the end of Section 6.44 - White and Yellow Thermoplastic Reflectorized Pavement Markings;

Insert new SECTION 6.44 PO, after Section 6.44, as contained on the following pages A1-2k through A1-2m.

#### [Added 02-10-2014]

15. Refer to Pages 393 and 394, SECTION 6.52 - Uniformed Full-Time Flagperson;

<u>Delete</u> **Section** 6.52 on pages 393 and 394, but do not delete examples on pages 395 and 396;

Substitute SECTION 6.52 CG, as contained on the following pages A1-2n and A1-2o.

#### SECTION 6.44 PO Lane Pavement Overlay

**6.44PO.1. DESCRIPTION.** This section describes the furnishing and application of an approved Green Asphalt Pavement Color Scheme along designated bicycle lanes and Brick-Red Asphalt Pavement Color Scheme matching Quest's StreetBondCL Terracotta color along designated Select Bus Service (SBS) lanes, as indicated in the Contract Drawings or as directed by the Engineer.

#### 6.44PO.2. REFERENCES.

- A. ASTM D-4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Tester.
- B. ASTM D-4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abrasion.
- C. ASTM D-522-93A Standard Test Method for Mandrel Bend Test of Attached Organic Coatings.
- D. ASTM G-155 QUV Accelerated Weathering Environment. Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.
- E. ASTM D-2486 MEK rub test for chemical resistance.
- F. ASTM D-570 Standard Test Method for water absorption of plastics.
- G. ASTM E-303 British Pendulum test for friction.
- H. EPA 24 ASTM D3960-05 Volatile Organic Compounds.

#### 6.44PO.3. <u>SUBMITTALS</u>.

- A. A copy of the current year accreditation certificate available from the Contractor or subcontractor who will be performing this work, or written verification from the coating supplier that the Contractor or subcontractor is qualified to perform this Work.
- B. Written and published specification for the application of the selected asphalt pavement coating.
- C. Confirmation of coating color.
- D. Proof of coating performance through a Certificate of Analysis or equivalent document as provided by the Contractor or the coating supplier.

#### 6.44PO.4. MATERIALS.

The following table outlines minimum performance properties of a typical asphalt pavement coating.

Characteristic	Test Specification	Measured result
Durability: Taber Abrasion resistance	ASTM D-4060 7 day cure, H-10 wheel (wet test)	< 5.0 g/1000
Water sensitivity	ASTM D-570 Water absorption after 9 days: Remaining absorption after 1 hour of recovery:	< 10% < 1.0%
Color stability	ASTM G-155 QUV 2,000 hours (CIE units)	New York City Bike Lane Green ∆E < 1.5
Color stability	ASTM G-155 QUV 2,000 hours (CIE units)	Brick color ΔE < 1.5

Flexibility: Mandrel Bend	ASTM D-522-93A Flexibility as measured by Mandre 0.5mm thick sample passes 10 mm at 21°C 0.5mm thick sample passes 125mm at -18°C	l bend
Chemical resistance	ASTM D-2486 Modified MEK scrubs 16 dry mils, number of scrubs until 50% substrate exposed	>5000
Adhesion to Asphalt	ASTM D-4541	Substrate Failure
Friction Wet	ASTM E-303 British Pendulum Tester	>55
Environmental Sensitivity	EPA 24 ASTM D-3960-05 Volatile Organic Compounds	VOC < 150

These properties shall be evidenced by Certificates of Analysis produced by an independent qualified testing facility.

Green Bicycle and Red Bus Lane Pavement Overlays furnished by the following manufacturers, or approved equivalent, are acceptable for use in this contract:

Ennis Paint, Inc. 1509 S. Kaufman Street Ennis, TX 75119

Integrated Pavement Concepts, Inc. 102-17957 55th Avenue Surrey, BC Canada V3S 6C4

Crafco, Inc. 420 N. Roosevelt Avenue Chandler, AZ 85226

**6.44PO.5. METHODS.** The asphalt pavement coating system shall be applied to the pavement in accordance with the manufacturer's specification. In its hardened state the color shall be as specified, and as approved by the Engineer. The material shall present a marking whose color and chemical resistance will not degrade under normal exposure to calcium chloride, sodium chloride or automotive oils and fuels. Color pigments used shall remain stable under exposure to ultra violet light. A minimum of four (4) layers of coating material shall be applied to the pavement surface.

The Contractor shall be required to use the proper equipment in the application of the asphalt pavement coating, as per the recommendation of the coating supplier, and as approved by the Engineer.

Asphalt pavement must be stable, well compacted and generally in excellent condition for the application of the asphalt pavement coating to be successful. The Engineer shall make the final determination as to the suitability of the existing asphalt pavement.

The asphalt pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

The asphalt pavement coating shall only be applied in the correct environmental conditions as instructed by the coating supplier, and as approved by the Engineer.

Refer to the instructions provided by the coating supplier regarding when the painted lane may be opened to traffic. Wait time is typically a function of the dry rate of the coating, and climate conditions.

The Engineer may, at his discretion, require the Contractor to remove all extraneous marks on the pavement made by the agents or employees of the Contractor, or made by others due to improper control or protection of the work area by the Contractor, his agents or employees. Any installation which, in the opinion of the Engineer, is not acceptable, whether by reason of poor workmanship, poor appearance, poor performance, poor materials, improper width or improper alignment, shall be reworked by the Contractor at no cost to the City. The Contractor shall replace rejected installation as directed by the Engineer, within fifteen (15) days after receiving written notification of the rejection of such completed work.

**6.44PO.6. MEASUREMENT.** The quantities to be measured for payment shall be the number of square yards of Lane Pavement Overlay, of each color, placed as specified to the satisfaction of the Engineer.

**6.44PO.7.** PRICES TO COVER. The unit prices bid per square yard of Green Bicycle Lane Pavement Overlay and Red Bus Lane Pavement Overlay shall cover the cost of all labor, materials, plant, equipment, insurance, and necessary incidentals required including, but not limited to, testing, cleaning, preparation of surfaces, and application of the lane pavement overlay materials, all in accordance with the contract plans and specifications, and as directed by the Engineer.

#### Payment will be made under:

Item No.	Item	Pay Unit
6.44 POG	GREEN BICYCLE LANE PAVEMENT OVERLAY	S.Y.
6.44 POR	RED BUS LANE PAVEMENT OVERLAY	S.Y.

#### SECTION 6.52 CG Crossing Guard

- **6.52CG.1. INTENT.** This section describes the employment of full-time uniformed crossing guards to direct and detour traffic.
- **6.52CG.2. DESCRIPTION.** The Contractor shall furnish an adequate number of competent crossing guards 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, and temporary traffic patterns related to the construction operations require positive temporary traffic control for safe, efficient traffic operations.
- **6.52CG.3. METHODS.** All crossing guards, whether paid for under this item or not, shall be proficient in speaking, writing and reading English and adequately trained, as approved by the Engineer, in controlling vehicular and pedestrian traffic at construction sites.

All crossing guards, whether paid for under this item or not, their apparel, hand-signaling devices, and active two-way radios shall be appropriate for use at roadway construction sites as approved by the Engineer.

Prior to the start of crossing guard operations, the Contractor shall provide to the Engineer a list of crossing guards to be used in the contract, identifying the source of crossing guard training for each individual. When requested by the Engineer, crossing guards shall demonstrate their competency in crossing guard procedures. Crossing guards not competent in controlling vehicular and pedestrian traffic procedures to the satisfaction of the Engineer shall be retrained or replaced at once. Each crossing guard paid under this item must be a full-time crossing guard. If any worker performing services under this item is also assigned the task of directing construction equipment (as per attached Example #2, worker acting as a flagperson 'A') or any laborer tasks, then such worker shall be deemed to be subject to the provisions of Labor Law §220 Prevailing Wage Schedule and will not be paid for under this Item.

- **6.52CG.4. MEASUREMENT**. The quantity to be measured for payment shall be the number of person-hours of uniformed crossing guard service actually performed, as authorized by the Engineer. Laborers who are not full-time crossing guard will not be measured for payment as crossing guards under this or any other item. Each uniformed crossing guard shall be required to work a minimum of eight (8) hours a day and the Contractor will be given a minimum of twelve (12) hours advanced notice by the Engineer as to when to furnish a crossing guard.
- **6.52CG.5. PRICE TO COVER.** The contract price per person-hour shall cover the cost of all labor, materials, equipment, and insurance necessary to employ a uniformed full-time crossing guard, and equip him/her with safety vests, hard hats, and signaling devices, including all other incidental costs necessary to control and detour traffic, as shown on the Contract Drawings, the Examples #1 and #2 on pages 395 and 396 (excluding worker acting as a flagperson "A" in Example #2), or as directed by the Engineer.

Payment for flagperson "A" in Example #2, shall be deemed to be included under other items of work, as appropriate.

Where there is no scheduled item for Crossing Guard, the cost of furnishing Crossing Guards as required shall be deemed included in the unit price bid for the Maintenance and Protection of Traffic item.

Payment will be made under:

Item No. Item Pay Unit

6.52 CG CROSSING GUARD PERSON-HOUR (P/HR)

#### [Added 02-24-2014]

16. Refer to Pages 480 and 481, Subsection 7.13.2.(B) MAINTENANCE OF STREETS, 4<sup>th</sup> paragraph, beginning with the words "The Contractor shall maintain the traveled way . . .;

Delete the 4<sup>th</sup> paragraph, in its entirety;

Substitute the following text:

"The Contractor shall maintain the traveled way in such a condition and conduct operations in such a manner that snow and ice may be readily removed by others as and when necessary, and in such a manner that proper drainage is provided for the melting of snow in the banks resulting from normal plowing. However, the Contractor will not be responsible for snow or ice removal on the pavement or traveled way opened for public usage, except within the limits of the work zone(s) which may include, but is not be limited to, stairways, promenades, esplanade areas, and sidewalk, including those fronting his office and the Engineer's field office all of which will be the responsibility of the Contractor."

#### 3. NEW SECTIONS

# SECTION 6.59 PF Temporary Concrete Barrier with Fence

- 6.59PF.1. <u>Description</u>. The Contractor shall furnish, install, maintain and remove temporary concrete barriers with chain link fence in accordance with plans, specifications and directions of the Engineer.
- 6.59PF.2. <u>Materials</u>. The temporary concrete barrier shall conform to the requirements of New York State Department of Transportation Standard Sheet No. 619-01, modified to accommodate a chain link fence with posts. Top and bottom rails will not be required for the fence.

Chain link fencing and incidentals shall be in accordance with Section 607 and Materials Section 710, of the current Standard Specifications, Construction and Materials, New York State Department of Transportation, Office of Engineering. The Engineer will inspect all chain link fence material for conformance with specifications.

The Contractor shall be required to provide a solid, secure chain link fence system consisting of posts, post embedment, fence fabric, and all other incidentals as may be required. Fence posts shall be embedded in the concrete barrier and the chain link fence shall extend from the barrier to a height of at least five (5) feet above the barrier.

Maximum spacing of fence posts shall be eight (8) feet from center to center. The details for the embedment of fence posts to the concrete barrier shall be submitted to the Engineer for approval.

Fence fabrication shall be continuous for the length of the concrete barrier; however, at joints between concrete barriers, the gap between fence sections shall not be more than four (4) inches.

Barrier sections shall be pre-cast portable concrete units. The Manufacturer shall certify that the temporary concrete barrier units conform to the details shown on the aforementioned NYSDOT's Standard Sheet or approved drawing.

The Engineer will inspect the temporary concrete barrier sections, complete with fence, upon delivery to the project site for conformance to specifications. Any barrier sections having damage and/or defects in the concrete, fence and/or joint connections will be rejected by the Engineer when in his judgment the performance of the barriers will be affected.

The temporary concrete barrier sections with fence shall form a smooth and continuous barrier when joined together. Any sections

damaged or misaligned while in service shall be corrected or replaced to the satisfaction of the Engineer, at no cost to the City.

Striped reflectorization on barriers is required. Striping pattern is to be alternating twelve (12) inch wide stripes of white and orange sloped downwards in the direction of traffic at 45 degrees.

Reflective sheeting material shall be used and it shall conform to photometric and color (Orange and White) requirements of Subsection 730-05.02, Reflective Sheeting (Class B), of the current Standard Specifications, Construction and Materials, New York State Department of Transportation, Office of Engineer.

6.59PF.3. Methods. The Contractor shall furnish, erect, move, and remove temporary concrete barriers with chain link fence as indicated on the plans or as directed by the Engineer.

Where indicated on the plans or in the proposal, temporary concrete barriers shall be supplemented by approved steady burning lights.

Each run, or bay, of temporary concrete barrier unit with chain link fence shall be fastened together to form a continuous chain. After placement, each successive unit shall be moved longitudinally to remove the slack in the joint between units. The units at each end of a run or bay shall be anchored as shown on the Standard Sheet. Where shown on the plans or directed by the Engineer, the ends of the barrier run shall be fitted with a tapered end section, flared back.

6.59PF.4. Measurement. The quantity to be measured for payment shall be the number of linear feet of temporary concrete barrier with chain link fence actually placed including transition sections, measured along the centerline of the top surface of each barrier.

Any movement of temporary concrete barrier with chain link fence, except movements of the concrete barrier necessary to maintain, realign, or replace damaged units will be considered as a movement to a new location and the Contractor will be entitled to payment for the movement.

6.59PF.5. Price to Cover. The contract price bid per linear foot for temporary concrete barrier with chain link fence shall cover the cost of all labor, materials, equipment, insurance and necessary to erect, maintain, and remove the required temporary concrete barrier with chain link fence. This work shall include, but not be limited to, any required connection devices, orange and white reflective stripes on the faces of the barriers, steady burning yellow lights when indicated on the plans, flashing amber lights, and filling holes left in the pavement with an epoxy grout after the barricades have been removed, all in accordance with the plans, the Specifications and the directions of the Engineer.

Payment will be made under:

Item No. Description

Pay Unit

6.59 PF

TEMPORARY CONCRETE BARRIER WITH FENCE

L.F.

#### SECTION HW-908

Allowance for Extra Work due to Archaeological Discoveries

In accordance with the Special Provisions article titled "ARCHAEOLOGICAL DISCOVERIES", should extra work be ordered by the Resident Engineer as a result of any archaeological discoveries being found under this project, it shall be paid for under this item as extra work in accordance with the requirements of Article 26 in the Standard Construction Contract dated December 2013.

Payment made under this Fixed Sum item shall cover the cost of all labor, materials, plant, equipment, insurance, and incidentals necessary to complete any extra work ordered by the Resident Engineer due to archaeological discoveries found at the site.

No guarantee is given that this allowance item will in fact be required in this contract. The estimated "fixed sum" amount shown in the Bid Schedule is included in the total bid solely to insure a method of payment for any extra work performed by the Contractor, as directed by the Engineer in consultation with the City's Archaeologist due to archaeological discoveries found at the site.

Payment will be made under:

Item No. Item Pay Unit

HW-908 ALLOWANCE FOR EXTRA WORK DUE TO

ARCHAEOLOGICAL DISCOVERIES F.S.

#### SECTION HW-900H Allowance for City Work Acceleration

Under this Section, the Contractor will be paid for City work deemed necessary by DDC's Commissioner to accelerate the City work items in the project during critical periods but the use of this item will expire on the original contract substantial completion date. Such accelerated City work includes:

- A. 100% of the premium portions of overtime pay for working during non-scheduled work hours which shall be defined as those hours of work outside the permissible hours stated in the original contract OCMC Traffic Stipulations; or,
- B. The premium portion of overtime pay for overtime actually worked beyond the 40-hour work week but within the permissible hours of work stated in the original contract OCMC Traffic Stipulations; or,
- C. All other incidental expenditures caused by modifications of project site regulations or administrative requirements ordered by the Commissioner that result in additional costs to perform contract work as specified.

Such accelerated City work shall be paid for under this item in accordance with the requirements of **Articles 25 and 26** of the Standard Construction Contract.

Payment made under this Fixed Sum item shall cover the cost of all labor, materials, plant, equipment, insurance, and incidentals necessary to accelerate the City work as ordered by DDC's Commissioner.

No guarantee is given that this allowance item will in fact be required in this contract. The estimated "fixed sum" amount shown in the Bid Schedule is included in the total bid solely to insure a method of payment for any accelerated work performed by the Contractor, as directed by DDC's Commissioner.

Payment will be made under:

Item No.

Item

Pay Unit

HW-900H

ALLOWANCE FOR CITY WORK ACCELERATION

F.S.

#### 4. SPECIAL PROVISIONS

The following shall become a part of and apply to the Contract:

- A. LINES AND GRADES. The Contractor shall furnish lines and grades in accordance with Section 1.06.27 of the Standard Highway Specifications, except that survey controls established for this project may no longer exist and the Contractor shall be required to re-establish the survey control information using official Borough Survey Control Monuments and Bench Marks, where they exist. The Contractor shall 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 shall 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 Contract Drawings, 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 shall be final.

In addition, the cost of compliance with requirements of the OCMC Traffic Stipulations, unless otherwise provided for, shall be deemed included in the prices bid for all scheduled items.

C. HOLIDAY CONSTRUCTION EMBARGO. A special Holiday Construction Embargo shall 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: <a href="http://www.nyc.gov/html/dot/downloads/pdf/holidayembapp.pdf">http://www.nyc.gov/html/dot/downloads/pdf/holidayembapp.pdf</a>

<sup>\*</sup> Please note that this embargo only applies to NYCDOT construction permits.

<sup>\*</sup> 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

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.

D. SPECIAL EVENTS. The Contractor will be precluded from proceeding with work at Shore Road between Grosvenor Street and Westmoreland Place from May 1st to October 28th each year of the construction period. At this location where the Contractor cannot complete such work three (3) days prior to the date of that scheduled shutdown period then the Holiday Embargo restrictions under Article C, above, shall apply and no extension of time due to this shutdown period will be granted to the Contractor for completion of the work.

However, where the Contractor is notified by the Engineer of a Special Unscheduled Event, such as a civic parade or other official activity, party, etc. not listed above, then the Holiday Embargo restrictions under Article C, above, shall apply. Temporary restoration of the streets and sidewalks and subsequent removal thereof for City work, if required, for those Special Unscheduled Event periods will be paid for under Item No. HW-900H and the Contractor will be granted an extension of time for the completion of the work, equal to the duration of the ordered shut-down.

E. ARCHAEOLOGICAL DISCOVERIES. The Contractor is notified that the Resident Engineer will retain the services of an Archaeologist (to be known as the "City's Archaeologist") for this project.

The City's Archaeologist shall be notified by the Contractor at least seven (7) days in advance of any excavation to be performed under this project and the City's Archaeologist will be present on site during sub-surface excavations as he deems necessary. The City's Archaeologist shall 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 shall 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) shall be notified as directed by the City's Archaeologist and the State Historic Preservation Office (SHPO) requires that the following protocol is implemented:

- 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.
- Human remains or associated artifacts shall 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.
- The County coroner and local law enforcement as well as the SHPO and the involved agency shall 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 bioarchaeologist will confirm the identification as human.
- If human remains are determined to be Native American, the remains shall 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.
- If human remains are determined to be Euro-American, African-American, etc., the remains shall 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 shall be paid for under Item No. HW-908 as extra work in accordance with the requirements of Article 26 in the Standard Construction Contract dated December 2013.

For additional information, see "PHASE IA DOCUMENTARY STUDY, ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR" attached to the end of this Addendum No. 1.

F. <u>DISPOSAL OF EXCESS EXCAVATED MATERIAL</u>. All excess excavated material, with the exception of contaminated material, shall become the property of the Contractor and shall be properly disposed of away from the site, at the Contractor's expense. Contaminated material shall be disposed of separately in accordance with contract requirements.

- G. CONTRACT ITEMS THAT INCLUDE BACKFILL AS A PART OF THEIR WORK. The following shall pertain to all contract items that have backfill as a part of their work: Backfilling shall comply with Subsection 4.11.3 of the Standard Highway 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.
- H. <u>SCHEDULING PRESENTATION</u>. The Contractor shall submit construction schedule in the form of a bar chart using "Microsoft Project 2010", or in an approved equivalent program which shall be directly and fully translatable into Microsoft Project 2010 format, within seven days of the initial Pre-Construction Meeting. Each bar in the chart shall show dates the Contractor plans to start and complete each construction activity after the initial Pre-Construction Meeting. Bar chart shall show the order and interdependence of all activities necessary to complete the work and the sequence in which activity is to be accomplished as planned by the Contractor and in accordance with all subcontractors or suppliers whose work shall be shown on the bar chart. The Contractor shall submit the bar chart for the Engineer's review and revise it, if required, until approved by the Engineer.

The Contractor shall submit weekly progress status update reports or as otherwise directed by the Engineer. The Contractor shall submit updated bar chart every month. The revised bar chart shall be made in the same form and detail as the original submittal and shall be accompanied by an explanation of the reasons for the revisions all of which shall be subject to approval by the Engineer.

I. ACCELERATED PROJECT SCHEDULE AND COMBINATION OF STAGES. The Contractor shall plan and/or stage its work schedule using all hours/days available. The Contractor is advised that all applicable unit prices shall 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 shall be permitted to accelerate this project, to combine stages and/or work sequences. Any such changes shall be shown in the construction schedule, to be furnished in accordance with the General Provisions of the Standard Specifications and the above "SCHEDULING PRESENTATION" Article, and shall be submitted for approval of the Engineer.

- J. 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.
- K. PRIVATE UTILITY HARDWARE ADJUSTMENTS will be performed by the owning utility company or its agent, at its expense. The Contractor shall notify the utility company 72 hours prior to start of work at each location where its hardware requires adjustment.
- L. RESTRICTED WORKING HOURS. Construction activities shall be restricted to the work schedules specified in the Traffic Stipulations provided at the end of these Special Provisions. Prior to undertaking any construction activities near the schools, work shall be scheduled in consultation with the school authorities and with the approval of the Engineer. No extension of time will be granted to the Contractor for completion of this contract due to restricted working hours.
- M. <u>SURVEY MONUMENTS</u>. When working in the vicinity of survey monument the Contractor shall hand excavate per Item 8.02 A and 8.02 B at City Survey Monuments, for a distance of five (5) feet around each monument, as directed by the Engineer.
- N. THE CONTRACTOR IS NOTIFIED that for use of City water under this project the Contractor shall be required to obtain all necessary permits from the Department of Environmental Protection, at no cost to the Contractor in accordance with the NYC Department of Environmental Protection, STANDARD WATER MAIN SPECIFICATIONS, dated August 1, 2009, Section 1.08.4 "TEMPORARY USE OF CITY WATER ON CONSTRUCTION PROJECTS" and/or the STANDARD SEWER SPECIFICATIONS, dated August 1, 2009, Section 1.08.4 "TEMPORARY USE OF CITY WATER ON CONSTRUCTION PROJECTS."
- O. 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 <a href="http://www.eia.gov/petroleum/gasdiesel/">http://www.eia.gov/petroleum/gasdiesel/</a>. 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.

- P. THE CONTRACTOR IS NOTIFIED that wherever the Item No. "6.52" and words "flagger" and "flagperson" are used in the Contract Documents and Drawings it shall mean the Item No. "6.52 CG" and the words "Crossing Guard", respecively.
- Q. START OF CONTRACT WORK. The Contractor is notified that it is the intent of this Agency to commence work promptly after registration of the contract and to order the Contractor to commence work within two (2) weeks after registration.
- R. 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.



#### Department of Transportation

JANETTE SADIK-KHAN, Commissioner

#### **OCMC TRAFFIC STIPULATIONS**

March 14, 2013

OCMC FILE NO: CONTRACT NO: QEC 13-115 HWQ985

PROJECT:

ROADWAY IMPROVEMENTS IN SHORE ROAD

LOCATION(S):

VARIOUS LOCATIONS

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 SIMULATIONS, 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 SUCH AS PUBLISHED BY THE BUREAU OF PERMIT MANAGEMENT AND CONSTRUCTION CONTROL
- 2. <u>BIKE LANES</u> 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).
- 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.
- METERS THE CONTRACTOR MAY NOT REMOVE OR RELOCATE PARKING METERS WITHOUT FIRST OBTAINING APPROVAL FROM NYCDOT PARKING METER DIVISION AT 718 - 894 - 8651.
- 5. 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.
- 6. <u>AUTHORIZED PARKING</u> PRIOR TO PERFORMING WORK WHECH IMPACTS AUTHORIZED PARKING, THE CONTRACTOR 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.
- 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.
- 8. ENHANCED MITIGATIONS
  - 0 STANDING ANYTIME-TEMPORARY CONSTRUCTION" SIGNS AND TEMPORARY PAYEMENT MARKINGS SHALL BE INSTALLED AND MAINTAINED AS WARRANTED BY THE MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) REQUIRED TO FACULTATE TRAFFIC MOVEMENTS THROUGH THE WORK ZONE, ALL TEMPORARY SIGNS AND PAYEMENT MARKINGS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
  - a COMMUNITY OUTREACH SHALL SE PROVIDED FOR THE DURATION OF THE PROJECT.
- 9. Per Local Law 224, the Permittee must produce and submit a Community Reassessment, impact and Amelioration (CRIA) Statement to NYCDOT Planning and obtain their approval before applying for permit for <u>full closure of any street Seament if such closure is expected to be for a duration in excess of 180 Consecutive days.</u>

#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE INSTALLATION OF NEW STORM SEWERS/WATERMAINS

#### SHORE ROAD BETWEEN WEST DRIVE AND KENMORE ROAD

- Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday Friday
- The contractor must maintain one 12 foot lane for local and emergency traffic during working hours.
- The contractor must restore one 11 foot lane for traffic after working hours.
- The contractor shall maintain 5-foot clear sidewalk for pedestrians at all times.

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

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www.nyc.gov/dat

March 14, 2013 Page 2 of 4

OCMC FILE NO: CONTRACT NO: GEC 13 115 HWQ985

PROJECT:

ROADWAY IMPROVEMENTS IN SHORE ROAD

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#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE INSTALLATION OF CATCH BASINS AND CONNECTIONS

#### WEST DRIVE BETWEEN SHORE ROAD AND BAYVIEW AVENUE

#### MARINETTE STREET BETWEEN WEST DRIVE AND BAYVIEW AVENUE

- Work hours shall be as follows: 7.00 AM to 6:00 PM, Manday Friday
- The contractor must maintain one 12 toot lane to local and emergency traffic during working hours.
- The contractor must restore one 11 foot lane on one-way streets and two 11 foot lanes on two-way streets after working hours.
- The contractor shall maintain 5-foot clear sidewalk for pedestrians at all times.

#### INTERSECTION OF SHORE ROAD AND WEST DRIVE

- Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday Friday
- The contractor shall work in one-half the width of intersecting streets at a time and maintain the other half open for vehicular traffic.
- The contractor must restore the full width of the roadway after working hours.
- The contractor shall maintain 5-faot clear sidewalk for pedestrians at all times.

#### III A

#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE CONSTRUCTION OF ROADWAY REPAIR AREA-BAYYIEW AVENUE

### SHORE ROAD BETWEEN WEST DRIVE AND KENMORE ROAD BAYVIEW AVENUE BETWEEN SHORE ROAD AND WEST DRIVE

- Work hours shall be as follows: 7.00 AM to 6:00 PM, Monday Friday
- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic".
  The contractor must notify in writing by letter to Police, Fire, EMS, Community Boards and all property owners on
  the offected street segment a minimum 7 calendar days prior to closure.
- The contractor shall maintain 5-foot clear sidewalk for pedestrians at all times.

#### INTERSECTION OF SHORE ROAD AND BAYVIEW AVENUE

- Work frouts shall be as follows: 7:00 AM to 6:00 PM, Manday Friday
- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic"
  The contractor must notify in writing by letter to Police, Fire, EMS, Community Boards and all property owners on
  the affected street segment a minimum 7 calendar days prior to closure.
- The contractor shall maintain 5-foot clear sidewalk for pedestrians at all times.

#### 111 8

#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE CONSTRUCTION OF ROADWAY REPAIR AREA-MANOR ROAD

#### SHORE ROAD BETWEEN MANOR ROAD AND HOLLYWOOD AVENUE

- Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday Friday
- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic".
   The contractor must notify in writing by letter to Police, Fire, EMS, Community Boards and all property owners on
  the affected street segment a minimum 7 calendar days prior to closure.
- The contractor shall maintain 5-toot clear sidewalk for pedestrians at all times.

#### INTERSECTION OF SHORE ROAD AND MANOR ROAD

#### INTERSECTION OF SHORE ROAD AND HOLLYWOOD AVENUE

- Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday Friday
- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic".
  The contractor must notify in writing by letter to Police, Fire, EMS, Community Boards and all property owners on
  the affected street segment a minimum-7 calendar days prior to closure. At the intersection of Shore Road and
  Manor Road no access onto Shore Road from Manor Road will be permitted.
- The contractor shall maintain 5-toot clear sidewalk for pedestrians at all times.

March 14, 2013 Page 3 of 4

OCMC FILE NO:

QEC 13 115

CONTRACT NO: HWQ985
PROJECT: ROADWA

ROADWAY IMPROVEMENTS IN SHORE ROAD

#### IVA

#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE CONSTRUCTION OF NEW CURBS AT MID-BLOCK

#### SHORE ROAD BETWEEN WEST DRIVE AND KENMORE ROAD

Work hours shall be as follows: 7:00 AM to 5:00 PM, Manday - Friday

The contractor must maintain a minimum of one 11 foot lane for traffic during and after working hours.

 The contractor shall maintain pedestrions crossing at comers 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.

#### IV B

#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE CONSTRUCTION OF NEW CURBS -AT CORNER

#### INTERSECTION OF SHORE ROAD AND WEST DRIVE

Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday - Friday

 The contractor must maintain one 11 foot lane for two-way thru traffic with flaggers at each end of work zone during working hours.

The contractor shall restore tull width of the roadway after working hours.

 The contractor shall maintain pedestrians crossing at comers 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.

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#### MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE CONSTRUCTION OF ROADWAY PAVEMENT

#### SHORE ROAD BETWEEN HOLLYWOOD AVENUE AND ARLEIGH ROAD

Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday - Friday

- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic".
  The contractor must notify in writing by letter to Police. Fire, EMS, Community Boards and all property owners on
  the affected street segment a minimum 7 calendar days prior to closure.
- The contractor shall maintain 5-foot clear sidewalk for pedestrians at all times.

#### INTERSECTION OF SHORE ROAD AND HOLLYWOOD AVENUE

Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday - Friday

- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic".
  The contractor must notify in writing by letter to Police, Fire, EMS, Community Boards and all property owners on
  the affected street segment a minimum 7 colendor days prior to closure. At the intersection of Shore Road and
  Hollywood Avenue no access onto Shore Road from Hollywood Avenue will be permitted.
- The contractor shall restore full width of the roadway after working hours.
- The contractor shall maintain 5-foot clear sidewalk for pedestrians at all times.

#### INTERSECTION OF SHORE ROAD AND ARLEIGH ROAD

Work hours shall be as follows: 7:00 AM to 6:00 PM, Monday – Friday

- Only during the placement of concrete and curing shall the contractor place barricades and post signs meeting
  "Federal Manual for Uniform Traffic Control Devices (MUTCD)" standards stating "Road Closed to Through Traffic".
  The contractor must notify in writing by letter to Police, Fire, EMS, Community Boards and all property owners on
  the affected street segment a minimum 7 calendar days prior to closure.
- The contractor shall restore full width of the roadway after working hours.
- The contractor shall maintain 5-foot clear sidewalk for pedestrions at all times.

#### B. GENERAL NOTES

- 1. THIS IS NOT A PERMIT. THIS STIPPLATION 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.
- ALL RELOCATION WORK BY THE UTILITIES SUCH AS; CON EDISON, TELEPHONE, GAS AND CABLE COMPANIES SHALL PRÉCÉDE THE CONTRACTORS' START OF WORK ON ALL AFFECTED ROADWAYS IN THE IMPACTED CONTRACT AREA.
- 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 MODELCATIONS BY THE OCIMIC-STREPTS.

March 14, 2015 Page 4 of 4

OCAC FILE NO: CONTRACT NO: GEC 13 115 HWD485

PROJECT:

ROADWAY IMPROVEMENTS IN SHORE ROAD

4. THE PERMITTE IS NOT AUTHORISED TO ENTER, OCCUPY OR USE ANY PERMITTEN ON PRIVATELY CHARLE, NON-PAYED, LANDSCAPE OR NON-LANDSCAPED LOCATION WITHOUT SPECIFIC WEITEN PERMITTEN. WHEN THE EDICATION IS WITHIN THE EDICATION IS WITHIN THE EDICATION IS WITHIN THE EDICATION IS WITHIN THE EDICATION OF A FURIED SPECIFIC PRIVATE PARK, WRITTEN APPROVAL FROM THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION OF NEW YORK CITY DEPARTMENT OF PAYER AND RECRETOR SECURIOR. WHEN THE LOCATION IS WITHIN THE EDICATION OF THE WATER PROPERTY OF MAY CITY OF ANY CITY OF ANY CITY OF ANY CITY OF THE WRITTEN APPROVAL.

- THE PERMITTES SHALL ADMISS TO THE NYCDOT BUREAD OF BRIDGES' SPECIAL PROVISIONS FOR LANDSCAPE PROJECTION, MAINTENANCE AND RESTORATION, MAIS L. 16, 15 INFOUGH 1, 16, 19, WINNEVER AND WHEREVER ANY OF THE PERMITTEE'S ACTIVITIES OCCUR WISHIN A UNKTED ACCESS ARTISTICAL HIGHWAY SIGHT - OF -WAY.
- 6. NO DEVIATION OF DEPARTURE FROM THERE STIPLATIONS WILL BE PERMITTED WIRROUT THE FROM WHITEN APPROVAL FROM THE OCIAC-STREETE. REQUEST FOR SUCH MODIFICATIONS SHALL BE SURVAITED TO THE OFFICE OF THE OCIAC-STREETE, NEW YORK CITY DEPARTMENT OF TRANSFORTATION, A MINISTERN OF TWENTY (20) GAYS IN ADVANCE FOR CONSIDERATION.
- FOR THIS PROJECT THE CONSEACTOR SHALL RESIDEN, INSTALL AND NAME AND INCCESSARY ADVANCE WARNING AND DESCRIP, SHAP CONTROL
  OFFICER, "THE TYPICAL ECHIMES INCLUDED IN THIS SPECIFICATION; AND AS DECERTED BY THE FINGINGENHIP CHARGE AND THE OCANC-STREET.
- B. THE CONTRACTOR SHALL BE REPORTED FOR IDENTIFIEND HE CONTRACTOR'S NAME, SPONSORING AGENCY NAME AND THE CONTRACTOR'S NAME, SPONSORING AGENCY NAME AND THE CONTRACT NUMBER. THE IDENTIFICATION SHALL SE FLACED ON THE BACK OF THE SIGN, THE LETERING SHALL SETTING IT IN INCHES HIGH.
- THE OCMC STREETS RESERVES THE RIGHT TO VOSTOR MODIFY THESE STIPULATIONS SHOULD CONSTRUCTION FAIL TO COMMENCE WITHIN TWO (2)
  YEARS OF THE SIGNED DATE OF THESE STIPULATIONS.

10. THE CONTRACTION MUST COMPLY WITH ALL CONSTRUCTION EMBARGOS ISSUED BY THE NYCOOT INCLUDING THE HOLDAY EMBARGO.

JOSEPH P. NOTO

Executive Directors

OCMO-STREET

XIOMARA AGUILERA

PROJECT MANAGER

OCAC-Sneets

JPN/db



## 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, required to remove from a terrials 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.

#### 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
- 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.

Printed on Personal Proper

#### 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")
Site) (the "Contractor") for work to be performed at	(Contract
a. This Agency has approved the following locations to be Contractor for the temporary storage, processing and/or stockpil construction materials (the "Stockpiling Locations") excavated construction site or intended for the construction site:	ling of
	-

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.

# HISTORICAL PERSPECTIVES INC.



# PHASE 1A DOCUMENTARY STUDY ENGINEERED RESURFACING OF SHORE ROAD DOUGLAS MANOR DOUGLASTON, QUEENS, NEW YORK

**CAPITAL PROJECT HWQ985** 

Prepared for:



30-30 Thomson Avenue Long Island City, NY 11101

Prepared by:

Historical Perspectives, Inc. P.O. Box 3037 Westport, CT 06880

July 2011

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#### I. INTRODUCTION

Shore Road, a street along the shore of Little Neck Bay in the neighborhood of Douglas Manor, Borough of Queens (Figure 1), requires rehabilitation based on its poor condition. In two locations in particular, the roadway is collapsing. The area of rehabilitation extends from West Drive on the north to 36th Avenue/Park Lane on the south, a linear distance of approximately 3,743 ft., and varying in width from 16 to 28 ft. (Figure 2).

Douglas Manor, a planned community on the peninsula of Little Neck, was designated the Douglaston Historic District by the New York City Landmarks Preservation Commission (NYCLPC) in 1997 (NYCLPC 1997). The designation covers the majority of existing homes, as well as the physical appearance of the streets. Until ownership of the streets, including Shore Road, was taken over by New York City, the streets and parkland within Douglas Manor were all owned and maintained by the private Douglas Manor Association (DMA), which continues to own the parkland along the west (bay) side of Shore Road.

In the two areas in which the roadway is collapsing: (1) at Bayview Avenue (Figure 3) and (2) between Hollywood and Manor avenues (Figure 4), it will be necessary to build a wall for support and to prevent future sub-base erosion. Overall, because of its landmark status, Shore Road is to be rehabilitated as is, maintaining the variable roadway widths, granite-block curbs, and the original Douglas Manor surface runoff system of spillways and scuppers that directs stormwater runoff into Little Neck Bay. Because there is no storm sewer system, a new highway drain system will be constructed on Shore Road, with new catch basins installed at each of the Shore Road and side-street intersections, for a total of 43; 23 new manholes will also be installed, as well as piping to link the catch basins and manholes with 7 proposed new drain outfalls into Little Neck Bay. The outfall construction will necessitate easements for construction work on DMA owned parkland, to which the DMA has indicated preliminary verbal agreement.

The proposed outfall locations (Figure 2), 20 ft. wide and extending from the western (bay) edge of Shore Road to the mean high water line are, from north to south: (1) at the foot of West Drive, (2) between Bayview Avenue and Kenmore Road, (3) at the foot of Knollwood Avenue, (4) Grosvenor Street, (5) Westmoreland Place, (6) Manor Road, and (7) Hollywood Avenue. With mean high water at 1.9 ft., the outfalls will be at elevations between 3.0 and 3.9 ft., with the exception of Outfall No. 5, Westmoreland Place, at 1.35 ft.

In accordance with New York City Environmental Quality Review (CEQR) regulations and procedures, the New York City Landmarks Preservation Commission (NYCLPC) has required a Phase 1A Documentary Study for this undertaking, citing the potential for precontact archaeological remains in the project site. This report complies with the guidelines of the NYCLPC (CEQR 2001; NYCLPC 2002).

This Phase 1A documentary study describes conditions on the project site (the Shore Road roadbed and the seven outfall locations on the bay side of the roadbed)—referred to in this study as the Area of Potential Effect (APE)—including soil and geological boring data and known disturbances to the property, previous cultural resources investigations undertaken adjacent to the project site, the history of the property, and finally, based upon the preceding sections, the APE's potential sensitivity for the recovery of archaeological resources.

#### Methodology

Preparation of this archaeological study involved using documentary, cartographic, and archival resources. Repositories utilized or contacted included the Records Division of the Topographical Bureau at the Queens Borough President's Office; the Long Island Division of the Queens Library; and the New York Public Library. Hazen and Sawyer, P.C. provided current site and geotechnical data (Hazen and Sawyer 2011a, 2011b), including soil boring logs, which are included as an appendix to this study.

Online map sources include the New York Public Library (<a href="http://www.nypl.org">http://www.nypl.org</a>), the David Rumsey Historical Map Collection (<a href="http://www.davidrumsey.com">http://www.nypl.org</a>), the University of Alabama Library's Coastal Topographical Sheets (<a href="http://alabamamaps.ua.edu">http://alabamamaps.ua.edu</a>), Office of the Coast Survey historical map and chart collection (<a href="http://historicalcharts.noaa.gov">http://historicalcharts.noaa.gov</a>), My Topo Historical Maps (<a href="http://historical.mytopo.com">http://historical.mytopo.com</a>), and NYCityMap (<a href="http://gis.nyc.gov/doitt/nycitymap/">http://gis.nyc.gov/doitt/nycitymap/</a>).

The digital archive of *The New York Times* and Google books were also searched for relevant information regarding the development of the APE and Douglas Manor.

No existing archaeological and cultural resource studies for sites within one mile of the APE were available from the New York State Office of Parks, Recreation and Historic Preservation (OPRHP), or the online site of the NYCLPC. Archaeological sites within one mile of the APE, inventoried by New York State Museum (NYSM) and the OPRHP were researched. A site inspection and photographic record was also made in November 2010 and June 2011 (Photos 1–19).

## III. ENVIRONMENTAL SETTING

Long Island is the top of a coastal plain ridge formation that is covered with glacial drift, in reality an elevated sea bottom demonstrating low topographic relief and extensive marshy tracts. In the last million years, as glaciers advanced and receded three times, the surficial geology of the island, including the APE, was profoundly altered. "The glacier was an effective agent of erosion, altering the landscape wherever it passed. Tons of soil and stone were carried forward, carving and planing the land surface. At the margins of the ice sheet massive accumulations of glacial debris were deposited, forming a series of low hills or terminal moraines" (Eisenberg 1978:19). Circa 18,000 years ago, the last ice sheet reached its southern limit, creating the Harbor Hill moraine that traverses the length of Long Island. The moraine lies approximately 2 mi. south of the APE, along the Grand Central Parkway. North of the moraine, the complex rising and subsidence of the coastal plain, relieved of its glacial burden, and the rising sea level, caused by the volume of melting ice, which stabilized approximately 3,000 years ago, created the coastline of embayed rivers and estuaries, with extensive marshy tracts (Schuberth 1968:195,199).

Prime examples of this phenomenon are Little Neck Bay and the marshlands of Alley Creek and Alley Pond Park, on the west side of Little Neck, and a second embayed creek on the eastern side of the Little Neck peninsula, known as Udalls Cove, with another area of marsh now part of Udalls Cove Park, about 200 ft. east of the northern tip of the APE, but generally 1,000 to 2,000 ft. east of the APE. Considering Little Neck's location within one of the most densely populated urban areas in the United States, historical topographic maps (Figures 5, 6) show that the park and marshlands presently surrounding the neck—with the exception of the intruding Northern Boulevard and Long Island Expressway—approximate the former extent of the marshlands.

The Little Neck itself, an elevated rocky outcrop, was occupied as a farm and country estate during most of the historical period, and only developed as a residential neighborhood in 1906. The 1837 USCS topographic map (Figure 6) shows the highest elevations at the center of the neck, sloping downward toward the north, east, and, west. The USGS 1891 survey shows the central spine of the neck at greater than 80 ft. above sea level, sloping down to below 20 ft. along the APE shoreline (USGS 1891). The construction of the current street grid purposely followed the natural landscape contours, not only for the picturesque quality it provided, but also for the sake of storm-water drainage into the bay.

The present USGS topographic survey (Figure 1), shows the most elevated part of the neck as greater than 100 ft. above mean low water (east of Center Drive and on the aptly named Ridge Road, about 800 ft. east southeast of the APE), sloping downward as the APE and the shoreline is approached. The 10 ft. contour interval provides a more nuanced picture of the APE than earlier surveys. The Shore Road APE slopes downward to the shoreline from an elevation of between 30 to 20 ft. above mean sea level from West Drive to south of the Bayview Avenue intersection; 20 to 10 ft. from south of the Bayview Avenue intersection to the north side of the Knollwood Road intersection; 10 to 0 ft. at the Knollwood Road intersection—the most depressed section of Shore Road; 10 to 20 ft. south of the Knollwood Road intersection to south of the Manor Road intersection; and 30 to 20 ft. south of the Manor Road intersection to 36th Avenue. On the bay side of Shore Road, generally west of the road, the DMA-owned parkland slopes steeply down to the bay (Photos 1–19). The section of the slope west of Shore Road is grassed and the strip varies in width. It extends to a concrete foundation at the high water line—which current surveys (Appendix) record at an elevation of 1.9 ft.—beyond which is a strip of riprap which lies in the tidal zone (Photos 2, 4, 8, 11). Beginning ca. 125 ft. north of Kenmore Road and extending north, at the foot of the grassed slope is a timber retaining wall atop the concrete foundation. There the concrete wall is wide enough to accommodate a sidewalk (Photos 2, 4).

## Soil Borings

In 2011, a series of 45 geotechnical and soil borings were performed on the Shore Road roadbed within the APE, and 3 on adjacent Bayview Avenue (No. 2AB), Hollywood Avenue (No. 6AB), and Manor Road (No. 3AB) (Hazen and Sawyer 2011b) (Appendix). In general, the boring logs record a stratum of "misc. fill" below the surface asphalt. On Shore Road this fill stratum is 3.5 ft. thick, with only three exceptions (and two exceptions on the side streets), which exceptions will be further discussed below. Beneath the fill layer is a stratum of brown sand with varying "trace" and "little" amounts of silt and/or gravel, extending down to the bottom of the boring (Appendix).

Beneath the 3.5 ft. of fill in the roadbed, there is no evidence of the pre-paving ground surface. This suggests that prior to road construction, the existing vegetation and topsoil were removed, and the "misc. fill," identified as "sandy material (with silt and gravel)," placed as bedding for the asphalt. That 3.5 feet of fill was laid down points to the removal of an approximately equivalent amount/depth of soil. Boring logs Nos. 4AB and 5AB, for soil borings performed between Hollywood Avenue and Manor Road, lend support to this conclusion. These two locations are along or closer to the western curb of Shore Road than the others, bordering on the private property between Shore Road and the bay. No fill is recorded beneath between 3 to 12 in. of asphalt, where silt with traces of sand and clay are recorded.

In contrast, greater disturbance is evident to the east of the APE, in the boring logs from sidestreets Bayview Avenue (No. 2AB) and Hollywood Avenue (No. 6AB), where the fill stratum extends 5 ft. below the current street surface, the greater disturbance attributable to the installation of utility lines buried in these side streets.

Boring log No. 44, at the south end of the APE, just south of the Arleigh Road intersection, is an outlier, recording 13.5 ft. of fill (compared to 3.5 ft. in all the other logs). Historical maps do not record any structures in this location, neither is any landform recorded that would account for it, but considering the proximity of soil borings showing 3.5 feet of fill (Nos. 43 and 45) to the north and south, it likely represents the former site of a very localized foundation construction.

In the vicinity of the two road collapses, Bayview Avenue (No. 9) (Photo 3) and north of Manor Road (Nos. 25, 27A, 28, 30–32, 34–37) (Photos 14, 15), rather than a sand layer beneath the fill, there is a thick silt stratum, which may have contributed to the slippage and collapse of the road.

Soils

The New York City Soil Reconnaissance survey characterizes the soils on and around the APE as pavement and buildings, "Foresthills-Montauk Complex, 0-8% slopes" (No. 67), further described by the USDA as "[n]early level to gently sloping urbanized areas of till plains and moraines that have been substantially cut and filled with neutral soil materials mostly for residential use. The entire Foresthills-Montauk series generally consists of well-drained soils of silt loam, loam, and sandy loam" (USDA 2005).

## Outfall Locations

No soil borings were performed in the seven proposed outfall locations outside the APE. These proposed locations, 20 ft. wide and extending from the outer (bay) edge of Shore Road to the mean high water line, vary in length from road to water line.

## (1) West Drive

The outfall location at the foot of West Drive (Figure 7, Photo 2) descends sharply from an elevation of approximately 20 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an elevation of 3.0 ft. along the bay side of the location. This bay side of this proposed location includes a timber retaining wall with a concrete foundation and walkway.

## (2) Between Bayview Avenue and Kenmore Road

This outfall location (Figures 8, 9, Photo 4) descends sharply from an elevation of approximately 16 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an elevation of 3.0 ft. along the bay side of the location. This bay side of this proposed location includes a timber retaining wall with a concrete foundation and walkway.

## (3) Knollwood Avenue

The Knollwood Avenue outfall location (Figures 10, 11, Photo 8) descends from an elevation of approximately 10 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an elevation of 3.2 ft. along the bay side of the location at the base of the slope.

## (4) Grosvenor Street

The Grosvenor Street outfall location (Figure 12, Photo 11) descends steeply from an elevation of approximately 15 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an elevation of 3.0 ft. along the bay side of the location at the base of the slope.

## (5) South of Westmoreland Place

The Westmoreland Place outfall location (Figures 13, 14, Photo 13) descends from an elevation of approximately 10.5 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall elevation along the bay side of the location at the base of the slope appears to be at the mean high water line (1.9 ft.), although the elevation is given as 1.35 ft.

## (6) Manor Road

The Manor Road outfall location (Figures 15, 16, Photo 15) descends from an elevation of approximately 13 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1. 9 ft. The proposed outfall would have an elevation of 3.9 ft. along the bay side of the location at the base of the slope.

## (7) Hollywood Avenue

The Hollywood Avenue outfall location (Figures 15, 16, Photo 17) descends sharply from an elevation of approximately 16.5 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an elevation of 3.8 ft. along the bay side of the location at the base of the slope.

## III. PRECONTACT ERA

## Precontact Summary

For this report, the word precontact is used to describe the period prior to the creation and use of formal written records. In the Western Hemisphere, the precontact era also refers to the time prior to European exploration and settlement. Archaeologists and historians gain their knowledge and understanding of precontact Native Americans in the Queens County area from three sources: ethnographic reports, Native American artifact collections, and archaeological investigations.

Based on data from these sources, a precontact cultural chronology has been devised for western Long Island. Scholars generally divide the precontact era into three main periods, the Paleo-Indian (ca. 14,000–9,500 years ago), the Archaic (ca. 9,500–3,000 years ago), and the Woodland (ca. 3,000–500 years ago). The Archaic and Woodland periods are further divided into early, middle, and late substages. The Woodland was followed by the Contact period (beginning ca. 500 years ago), which is distinguished from the precontact by the first Native American contacts with European trade goods, traders, trappers, fishermen, explorers and settlers.

Archaeologists generally believe that humans migrated from Siberia to Alaska across the Bering Land Bridge during the Late Pleistocene, more than 12,000 years ago. The Paleo-Indian period, from ca. 14,000 to 9,500 years ago, encompasses the interval from the end of the Pleistocene glacial conditions in eastern North America to the appearance of more modern Holocene environments. A postglacial conifer cover, consisting mainly of spruce and pine, was gradually being augmented by the appearance of hardwoods, such as oak and hickory, trees which are much more useful to human beings than conifers, because of their superior food value. Another food source, oysters, occurred in great numbers on the southern Atlantic Shelf from ca. 12,000 years ago.

For subsistence, the Paleo-Indians also hunted the large Pleistocene herbivores, such as mammoth, mastodon, caribou and musk oxen. The diagnostic artifact of the Paleo-Indian period is the fluted projectile point, which was originally attached to a spear. Gravers, steep-edge scrapers, knives, drills and other unifacial tools were used as well. These nomadic people roamed widely in search of sustenance, and their settlement pattern consisted of small, temporary camps, shellfish-processing stations, and lithic-reduction stations (Ritchie 1980:7).

The Archaic Period, ca. 9,500 to 3,000 years ago, is characterized by a series of adaptations to the newly emerged, full Holocene environments. As the period progressed, the dwindling meltwater from the disappearing glaciers and the resultant reduced flow of streams and rivers, promoted the formation of swamps and mudflats, congenial environments for migratory waterfowl, edible plants, and shellfish. The new mixed hardwood forests of oak, hickory, chestnut, beech, and elm attracted white-tailed deer, wild turkey, moose and beaver. The large herbivores of the Pleistocene were rapidly becoming extinct, and Archaic man became increasingly dependent on smaller game and the plants of the deciduous forest.

Tool kits were more generalized during the Archaic compared to the Paleo-Indian period, containing a wider array of plant-processing equipment such as grinding stones, mortars, and pestles. Animals were still hunted with spears or javelins, propelled by a spear-throwing device called an atlatl. Notched stone sinkers provide the earliest evidence of net fishing. Toward the end of the Archaic, carved soapstone bowls were introduced.

In the coastal areas of New York have been found numerous, small "nearly always multi-component sites variously situated on tidal inlets, coves and bays, particularly at the heads of the latter, and on fresh-water ponds on Long Island." By the Late Archaic, these areas provided shellfish, small game, fish, salt hay and tuberous grasses making larger more permanent settlements possible. Semi-nomadic life is still indicated, but wandering occurred within well-defined territorial limits, with seasonal movements between camps near exploitable resources. A dietary shift to shellfish in coastal New York near the end of the Archaic suggests a scarcity of large game, and a change from the early Archaic inland adaptation of forest hunting. Coastal sites show a principal reliance upon shellfish, especially oysters, hard- and soft-shell clams, and bay scallops, which were easily gathered all around Long Island (Ritchie 1980:142–143).

From approximately 3,000 years ago until the arrival of the first Europeans, ca. 500 years ago, Native Americans of the Woodland period on Long Island and in the surrounding area shared many cultural attributes. The period saw the advent of horticulture, and with it the appearance of large, permanent or semi-permanent villages. Plant processing tools became increasingly common, suggesting the extensive harvesting of wild plant foods. Maize cultivation may have begun as early as 800 years ago. Replacing the spear and javelin, the bow and arrow were introduced at this time, as well as pottery vessels and pipe smoking. A semi-sedentary culture, the Woodland Indians moved seasonally between villages within palisaded enclosures and campsites, hunting deer, turkey, raccoon, muskrat, ducks, and other game; and fishing with dugout boats, bone hooks, harpoons, and nets with pebble sinkers. Their shellfish refuse heaps, called middens, sometimes reached immense proportions, covering as many as three acres (Ritchie 1980:80,267).

Following the earliest recorded visit of Europeans to the New York City area, the exploration of New York Bay by Giovanni da Verazzano in 1524, descriptions of Native Americans and their settlements were recorded, providing another source of data to buttress archaeological inferences about Indian lifeways in the Contact period.

The cultivation of maize, a previously unnecessary supplement to an already rich diet, and an increasingly sedentary lifestyle, became more widespread during the Contact period, probably due to trade relations with Europeans. Shell-bead and wampum production was increased, and furs were collected by Native Americans for exchange. Although there are many ethnohistorical accounts of trade, there is little archaeological evidence of this in the region. Shellfish remained an important food source.

Apparently, the larger villages developed into permanent settlements, whose populations expanded and contracted with the availability of various natural food resources, while agriculture provided a storable surplus to maintain a smaller population throughout the year. Part of the population still migrated between food sources, inhabiting smaller seasonal campsites. Unfortunately, this period of growth was interrupted by epidemics of European diseases against which the Indians had no natural immunity, resulting in the decimation of their populations. At the time of European contact, the Native Americans who occupied Long Island were Munsee-speaking Lenape (also called Delaware) Indians.

Scholars often characterize precontact sites by their close proximity to water, game, and exploitable natural resources (i.e., plants, raw materials for stone tools, clay veins, etc.). These sites are often placed into three categories: primary (campsites or villages), secondary (tool manufacturing, food processing), and isolated finds (a single or very few artifacts either lost or discarded). Locations preferred for primary sites tend to be elevated sites near estuarine marsh systems, sources of fresh water, and a major waterway. They are often situated in locales that are easily defended against both nature (weather) and enemies. Secondary sites are often found near exploitable resources.

## Little Neck Bay and the APE in the Precontact Era

The first visit to the Little Neck Bay area by a European was probably that of the trader/explorer Adriaen Block, in the ship *Onrust*, who sailed up Long Island Sound and explored the bays on both sides in 1614 (Waller 1899:5). In 1639, Dutch Governor General Willem Kieft purchased, "from the Chief of the Manhassets, all the land east of Rockaway to Fire Island, and north to [Little Neck] Bay" (Flint 1896:116), an area which included the APE. Whether the "Chief" had the authority to sell the land, and whether he even understood the European concept of land ownership, is unclear. In any case, contact with Europeans had far-reaching effects on Native American cultures. European goods such as metal and glass began to replace traditional materials. Trade for these and other goods probably encouraged a more sedentary lifestyle, and larger villages developed into permanent settlements. The population of these villages would expand and contract with the seasonal availability of natural food resources, and maize agriculture contributed surplus food which could be stored to bolster their already rich diet. Tragically, these cultural developments were cut short, as natives were exposed to European diseases against which their bodies had no resistance. The Native American population was decimated, and the sociopolitical situation of Long Island's Native Americans became extremely fluid, with groups splitting and combining in complex ways. (Kearns et al. 1989:10).

At present, it is generally believed that western Long Island was inhabited by Munsee-speaking members of the Leni Lenape culture group. Most 19th-century histories identify the 17th-century inhabitants of northeastern Queens County as Matinecock (or Matinecoc) (Waller 1899:17). The Matinecock claimed jurisdiction over northern Long Island east

of Newtown, Queens, and as far east as Smithtown in Suffolk. They are described as being once numerous in northeastern part of present Queens County, with their settlements in Little Neck and Bayside, and a large one in Flushing, where they made sewan or wampum, and dried oysters and clams for winter use (Munsell 1882:19,76).

Based on the identification of the Indian representatives who were involved in early land transfers in the Little Neck area, some sources label the original occupants as Massapequa (Thompson 1918:1.126,3.3), or Canarsee, or even Rockaway (Kearns and Kirkorian 1985:6). This is not surprising, since according to the research of Robert Grumet and Reginald Bolton the divisions or subdivisions known as the Matinecock and the Massapequa had fairly close ties. They were allies during the late 17th century, eventually combined in 1676, and subsequently went to live in the Rockaways. The Massapequa sachem signed treaties with the Dutch in the name of other groups such as the Rockaway on more than one occasion, and when he was killed, the Matinecock sachem signed an agreement representing his own and some of the Massapequa's settlements. Thus, there existed a complex relationship between the Indian groups on Long Island which is yet to be explained sufficiently (Grumet 1981:5–6, 30–33).

The Matinecock occupied Little Neck until they became victims of one of the more heinous attacks by European settlers during the colonial period. In 1656, Thomas Hicks, who was later to be confirmed in ownership of Little Neck, gathered a band of armed men and attacked the Matinecock settlement which was at present Marathon Parkway and Northern Boulevard, now the site of the Little Neck-Douglaston Branch of the Queens Library (about 1 mile southeast of the APE). The Matinecock were driven off, and some accounts report that there was a massacre, leaving only women, children, and a few old men (Mandeville 1860:93; Antos 2009:ix–x).

Although they were driven off Little Neck, as late as 1675 Indian delegations to Governor Andros, led by Tackpousha, sachem of the Massapequa, continued to claim the lands of the necks on Long Island Sound, demanding a compensatory payment of £120. An Indian named Nauuawatuck was cited as the owner of Little Neck, but the Indians were regarded as "pretenders," and there is no record of them receiving any compensation (Brodhead et al. 1883:706)

Precontact Archaeological Sites

Local historian G. Henry Mandeville, in his 1860 "sketch" of Flushing township, notes that in

The immediate lands surrounding Little Neck. ... Relics of the Indian tribes are constantly found, and the innumerable quantities of shells found embedded beneath the surface truly denote the spots where the Warrior Chief and the aged Prophet rested in their wigwam in fancied happy security. Perhaps the most interesting of these lands is the portion now known as "Douglass Point" (Mandeville 1860:93).

Records available the New York State Office of Parks, Recreation and Historic Preservation (OPRHP), New York State Museum (NYSM), and the NYCLPC, as well as the published works of archaeologists such as Bolton and Arthur C. Parker (much of it summarized and updated by Eugene Boesch for the NYCLPC in 1997), reveal that the project site is in close proximity and may even overlap previously recorded precontact and contact era sites. Among both historians and archaeologists, there is widespread consensus that northeast Queens, that is, the area which comprised the Town of Flushing, once supported a substantial precontact population. Most of the documented precontact sites in Queens were located along extensive water systems, such as Little Neck Bay and Alley Creek (Grumet 1981) (Figures 6, 17). Table 1 summarizes the published and inventoried sites.

# TABLE 1 ARCHAEOLOGICAL SITES WITHIN A ONE-MILE RADIUS OF THE APE

Site Number	CSA- BT	T 40	(T) D 1 1			
Site Number	Site Name	Location	Time Period	Remarks		
				11012101111		

Site Number	Site Name	Location	Time Period	Remarks
NYSM 4529 ACP QUNS 6 Bolton (1922) No. 123 Boesch (1997) No. 6 (and No. 66?)	Douglas Point— Shell Midden	APE and to the E	Precontact/Contact?	"Shell heap at Douglass point." (Parker 1920); "Probably a fishing camp" (Bolton 1922)
NYSM 4528 ACP QUNS 5A & 5B Bolton (1922) No. 122 Boesch (1997) No. 5 (and No. 66?)	Douglaston— Village and Shell Midden/Camp and Shell Midden	0.0 ft. S to about 2,200 ft. (village) SSE "High ground overlooking Little Neck Bay" (Bolton)	Precontact/Contact?	"Village site and shell heap with relics near Little Neck" (Parker 1920) "[N]ear the Douglaston Railroad Station" (Boesch 1997)
NYSM 722	Bayview Site	About 2,600 ft. SW	Precontact?	No info
NYSM 4530 ACP QUNS 7 Bolton (1922) No. 125 Boesch (1997) No. 7	Bayside—Burial Site	About 2,700 ft. SW	Precontact/Contact?	"Burial site near Bayshore Beach (or Van Nostrand) [?] and Little Neck bay" (Parker 1920) "Mortuary site near Bayshore Beach at Crocheron Park[?]" (Boesch 1997)
NYSM 726 Boesch (1997) No. 55?	Crocheron Park Site I	About 3,200 ft. E, Crocheron Park/Near Little Neck Bay	Early Archaic, Late Archaic-Middle Woodland	NYSM-no info Boesch: "Early Archaic Period deposits and features at unspecified location near Little Neck Bay Site also contains Late Archaic through Middle Woodland components"
OPRHP A08101.000105	Gugliotta Site	About 3,400 ft. SW. In rear yard of residence, 39-39 223rd St., Bayside, 100 ft. west of Cross Island Parkway	Woodland and Contact?	Adjacent to wetlands: Shell midden, potsherds, projectile pts., mammal bone frags.
NYSM 723	John Golden Park Site I	About 3,500 ft. W	Late Transitional— Early Woodland	Shell midden; Projectile points: 1 Bare Is., 4 Rossville, and 1 Untype.
Boesch (1997) No. 54	Surface collection	Bayside, near Little Neck Bay?	Paleo-Indian?	Boesch 54: Fluted projectile point recovered from unspecified location in Bayswater [sic—Bayside] – probably from high ground around bay

Bolton's site No. 124 lies just outside the one-mile radius around the APE, but this "burying place recently invaded by the widening of Northern Boulevard," about 1 mi. southeast of the APE, is notable as an indication of a nearby settlement (Bolton 1922). Following the widening of the boulevard, the burials were reinterred and a monument to the

Matinecock erected in the nearby cemetery of Zion Episcopal Church at Northern Boulevard and Douglaston Parkway (WPA 1939:573).

Native American Trails and Place Names Near the APE

As would be expected for a location rich in natural resources, Little Neck was linked to the rest of northern Long Island by a major Native American trail which extended across northern Queens and eastward into Nassau County, a route followed by modern Northern Boulevard, earlier known as Broadway. Side trails may have led north to the APE, although neither Bolton nor Grumet identify one (Bolton 1922; Grumet 1981).

Anthropologist William Beauchamp applied the toponym "Qua-o-tu-ac" to Little Neck, but provided no source or meaning for the term (Beauchamp 1907:179). Grumet, in 1981, cites Beauchamp, but is skeptical, and relegates the term to those toponyms "not of local origin" (Grumet 1981:42–43).

## IV. HISTORICAL PERIOD

Although officially part of the Dutch West India Company's colony of New Netherland, following the exploration of Little Neck Bay by trader/explorer Adriaen Block in 1614 (Waller 1899:5), it was more than three decades before Governor General Willem Kieft tried to secure title to the APE and surrounding area from the local Indians. As previously mentioned, he bought, "from the Chief of the Manhassets, all the land east of Rockaway to Fire Island, and north to [Little Neck] Bay" in 1639 (Flint 1896:116). Deeds and land grants refer to Little Neck Bay as Martin Gerretsen's Bay<sup>1</sup>, after one of the members of the New Netherland Council (Martin Gerretsen van Bergen, 1633–1636), and the Little Neck/Great Neck peninsula as Madnan's Neck, distinguishing Little Neck as "Little" Madnan's Neck (Brodhead et al. 1883:706,707; Flint 1896:128, 130).

Unfortunately, the early land patents around Little Neck Bay did not describe boundary lines with sufficient clarity, resulting in a dispute between the towns of Flushing (now in Queens County) on the west, and Hempstead (now in Nassau County) on the east. Flushing, like Hempstead, was one of several English towns founded in New Netherland. Kieft granted a patent for approximately 16,000 acres east of Flushing Creek to a group of English emigrants, including Thomas Farrington, John Lawrence, and Thomas Stiles in October 1645. The Dutch called the settlement Vlissingen, after an important town in the Dutch province of Zealand, and eventually the English corrupted the name to Flushing (Brodhead 1853:410). The boundaries extended eastward across the northern half of modern Queens County, from the town of Newtown (western side of Flushing Meadows—Corona Park) to Little Neck Bay (Thompson 1839:373—374).

It was left to the first English governor, Richard Nicolls, to settle the dispute and assign Little Neck to Flushing, in 1666<sup>2</sup>. Nevertheless, the earliest private land grant on Little Neck was granted by Hempstead to Captain Thomas Hicks—possibly by 1641. Nicolls also confirmed Hicks in his ownership of the neck, including the APE (New York State Reporter 1906).

Flushing village was quite distant from the APE, approximately 4.8 mi. to the west, and the nearest early settlement was at "The Alley," over a mile to the south, where the east—west road, the predecessor of modern Northern Boulevard, dipped southward in order to cross Alley Creek and its extensive marsh system. It is not clear who the first settler was, perhaps Thomas Foster in 1637, or Thomas Hicks in 1641 (Van Siclen 1991:4), or even John Hicks, one of the original 1645 Flushing patentees and also a landowner at the Alley (McKay 2008:7,9).

The local histories do agree that Thomas Hicks eventually owned Little Neck and the APE in this period. As was noted in the previous section, with the assistance "a party of adherents from the mainland," Hicks drove off the Indians still residing there and seized the land in 1656. New York City Council Minutes note that Little Neck had been "settled by several families" in about 1667 (Mandeville 1860:93–94; Brodhead et al. 1883:705), although this was likely more than a mile south of the APE, in the vicinity of the main Indian trail, now Northern Boulevard. The 1675 Ryder map of Long Island depicts "Madnans Neck & Farms," but the symbols indicating settlement are confined to Great Neck (Ryder 1675).

The earliest named occupant of the Little Neck peninsula itself was Cornelius Van Wyck, who acquired a parcel adjacent to the Hicks property. His house, presently at the southwestern corner of the intersection of West Drive and Alston Place (37-04 Douglaston Parkway or 126 West Drive, about 300 ft. south of the APE), was erected there in 1735 (White and Willensky 2000:869). Van Wyck was a Hicks relative, and married his own Hicks cousin, which may explain why and how he acquired the land there. His son Stephen Van Wyck, who inherited the house, was a delegate to the Continental Congress in 1776, and was jailed by the British when they occupied Flushing in August of that year. The house was designated a New York City landmark in 1966 (Munsell 1882; NYCLPC 1966).

According to Flushing historian Mandeville, Little Neck and the APE passed from Thomas Hicks to "Sheaf,' a Hollander," and from him to Thomas Weeks (Mandeville 1860:93-94). In addition to the Van Wyck farmhouse, the

<sup>&</sup>lt;sup>1</sup>Martin Garretsen's Bay, spelled in a number of creative ways, was applied to several bays along the north shore of Long Island, as well as Little Neck Bay (Flint 1896:128–129).

<sup>&</sup>lt;sup>2</sup>Disputes seem to have continued, requiring Governor Andros to reconfirm Flushing's ownership in 1675, and Governor Dongan again in 1685, and the question appears in court cases as late as 1906 (*New York Reporter* 1906).

1781 Taylor and Skinner map (Figure 5) records a second structure on the southwestern part of Little Neck. The second building could be an outbuilding of the Van Wyck farm, or perhaps a Weeks family residence. The inexact scale and rendering of Little Neck makes the precise location unclear, but the buildings do appear to be east of the APE, and probably south of it as well. Although the 1781 map does not show cultivated fields and orchards on the APE, histories describe the parcel as the "Weeks farm" (Munsell 1882; NYCLPC 1997:5).

Because of the proximity to New York City, the shores of Little Neck Bay were quite early on a sought-after place for the establishment of country seats by the wealthy. In 1813 Thomas Weeks sold Little Neck, which included the APE, to Wynant Van Zandt, a wealthy New York City merchant of the firm of Lawrence & Van Zandt. Van Zandt (1767–1831) was from an old New Netherland/New York Dutch family; connected with the Lawrence family, who owned substantial properties in Flushing and on the western shore of Little Neck Bay; and a former city alderman from 1802 to 1806 (Munsell 1882). In 1819 he also purchased the Van Wyck farm to the south of his property (NYCLPC 1966).

Van Zandt lived in the Van Wyck farmhouse at first, but in ca. 1819 built himself a mansion on his property, about 700 ft. east of the APE, thus shifting the focus of the property northward from the older farmhouse (Figure 6). The Van Zandt house forms the core of the building that is now home to the Douglaston Club, at the head of Westmoreland Place (Figure 19). Van Zandt involved himself in local life, sponsoring a number of improvements in the area, including donating land for an Episcopal church, Zion (completed 1830) (Thompson 1839:379; von Skal 1908:71–72; NYCLPC 1997), and the construction of a causeway over Alley Creek and through the marshes (1824), allowing modern Northern Boulevard to bypass the Alley detour (Figures 5, 6). Following his death in 1831, he was buried at Zion Church. One of his 11 sons, Henry Van Zandt, resided on the property until his death, and Henry's widow continued to live there subsequently (Mandeville 1860:94; Munsell 1882), until the house with the surrounding property along with the APE was sold to George Douglas in 1835 (Munsell 1882; Douglaston/Little Neck Historical Society [D/LNHS] 2011b).

George Douglas was born in Scotland in 1792, reportedly related to the noble Douglas family. He or his immediate family sold its lands in Scotland and came to New York, where George Douglas purchased property and established one of the city's most successful merchant companies involved in the East India trade. The Douglas mansion on Fifth Avenue and 14th Street was one of the showplaces of New York society, and after Douglas purchased the Van Zandt property, the Fifth Avenue mansion became the temporary home of the Metropolitan Museum of Art while that institution awaited the completion of its Central Park building (New York Tribune 1895:199–200; Pessen 1990:108). Douglas occupied the Van Zandt mansion and further developed the property as a country estate.

Local histories tend to credit George Douglas with turning the property into a virtual arboretum, with a nearby neighbor, Samuel Parsons of the renowned Flushing nursery family, assisting him in acquiring rare plants and trees from around the world. There seems to be no evidence supporting this. Samuel Parsons's dates, 1819-1906, make him a teenager during Douglas's early occupation of the property. Maps dating to the period of George Douglas's residency (1835-1862) show little visible construction within the APE after 1837 (Figures 6, 17). In 1837 (Figure 6), a road approximating present West Drive, varying between 200 and 400 ft. east of the APE, led to the mansion from Broadway (Northern Boulevard). To the rear (east) of the mansion were six smaller buildings. A side road led east from the main path south of the mansion at about the intersection of West Drive and Arleigh Place, leading to the center of the neck and another building. An 1863 map identifies this as the "W. Douglas Farm Ho.," occupied by Alexander Johnson (Walling 1863). Part of the estate was a working farm, and Alexander Johnson, born in Scotland like Douglas, and his son James Johnson, also a farmer, appear there in the 1860 census, along with family and one servant. Newspaper references to the property generally call it "Douglas Farm" (e.g., New York Times 1852). There was a gardening staff, since in the same census George Douglas appears alone in his separate household, with a staff of eight including a gardener and laborers (cook, housekeeper, waiter, coachman, gardener, and three day laborers), however. The 1860 Walling map, drawn just before George Douglas's death shows little change to the property. The one addition is a path leading from the mansion to the bayfront, the future location of the present Little Neck Bay dock (Walling 1860).

On the other hand, the first map of the estate after George Douglas's death (1862), the 1863 Walling map, likely depicts the sum of his improvements to the estate: more elaborate roads linking the farm house, the Van Wyck

House, and the mansion, as well as the first appearance of the dock on Little Neck Bay (Walling 1863) at the foot of what is now Beverly Road. Although a path parallels the shoreline, it lies east of the present APE.

George Douglas's surviving son, William P. Douglas, inherited the ca. 270 ac. property. William Douglas was a director of the Greenwich and the North River Insurance companies in addition to his other bank investments and real estate holdings (New York Tribune 1895:199–200). It was he that in 1869 hired landscape architect William McMillen, a later associate of Frederick Law Olmsted, to "superintend the Estate, improve driveways, and lay out plantings and trees and ornamental shrubs." McMillen worked there for six years, and it is plausible that during this time Samuel Parsons could have been involved in acquiring plant matter for Douglas (NYCLPC 1997:6–7). A comparison of the 1863 and 1873 maps (Walling 1863; Beers 1873) shows subtle differences in the estate paths, generally a more curving and naturalistic layout in 1873, although this difference could be the idiosyncratic to the cartographer (compare e.g., Wolverton 1891 or Figure 18).

In 1867, the Flushing Railroad, precursor of today's Long Island Rail Road, reached the Little Neck, and Douglas donated a building from his estate to serve as the original station, providing that the railroad name the station Douglaston. With the extension of the railroad, suburban development became viable. In 1887, Douglas and other subscribers funded a new depot building as well as landscaping at the new Douglaston station (D/LNHS 2011a, 2011b).

Through the end of the 19th century, the Douglas estate remained a center of high society on Long Island's north shore, and Little Neck Bay became a popular location for wealthy sailing enthusiasts. William Douglas developed a keen interest in yachting and joined the New York Yacht Club, eventually becoming vice-commodore of that organization. In 1871, Douglas refitted a British yacht, *Sappho*, and became the first winner of the America's Cup. He was a member of the "best" clubs—the Union, Westminster Kennel, Tuxedo, Meadowbrook, among others—as well as the Douglaston Yacht Club and the St. Nicholas Society. He and his circle were also said to have introduced polo into America (New York Tribune 1895:199–200; *New York Times* 1919; D/LNHS 2011b).

By 1906 Douglas had sold the property, however. Although he lived until 1919, by the early years of the 20th century he had become an invalid. The mansion was rented out but later allowed to deteriorate (*New York Times* 1919, 1921). The eventual purchaser, the Rickert-Finlay Realty Company of New York, acquired the estate with the intention of creating an affluent residential enclave, which it named Douglas Manor. As early as 1904, Rickert-Finlay, in expectation of the bridge and tunnel improvements that would open Queens to residential development, had begun purchasing what was described in 1908 as over 1,000 ac. of "the most desirable property in the borough," including 2,479 lots at Douglas Manor (von Skal 1908:165). Lots went on sale in 1906.

Based on its experiences in developing parts of nearby Flushing, Bayside, and Little Neck, Rickert-Finlay established a number of deed restrictions on the lots in order to maintain the quality and character of the area, and nonresidential buildings were banished to the vicinity of the Long Island Rail Road station. Larger lots and houses were required along Shore Road (the APE). Because of the small size of the peninsula, no house was more than a mile from the railroad station, ensuring a certain level of pedestrian traffic. The streets themselves were laid out in a modified grid system in which the contours and topography of the peninsula were followed and respected (Sanborn 1917, 1934; NYCLPC 1997; D/LNHS 2011b) (Figures 19, 20).

Rickert-Finlay was also the intentional creator of Shore Road, which separates private residences from the bay shore. Unlike other nearby developments where the shore became inaccessible to the public, Shore Road was planned as an open, public street, and to the present day functions as the neighborhood promenade.

## V. CONCLUSIONS AND RECOMMENDATIONS

## Historical Period Resources

There is no record of historical period occupation or construction within the APE prior to the construction of Shore Road in ca. 1906. Therefore, the APE is considered to have no potential sensitivity for historical period archaeological resources, and no further study or testing regarding historical resources is recommended.

## **Precontact Period Resources**

Our knowledge of precontact and contact period settlement patterns indicates that Native Americans showed marked preference for sheltered, elevated sites close to wetland features and sources of fresh water. Such locations are likely to have been exploited for processing sites, camps and more permanent settlements. As the preceding sections have described, the Little Neck Peninsula, of which the APE is a part, was occupied by Native Americans as late as 1656. The neck would have provided access to the rich shellfish beds of Little Neck Bay, but there is no recorded source of fresh water, and the nearest wetland features were somewhat distant (generally 1,000 to 2,000 ft. east). It is no surprise that the nearest recorded settlement, 2,200 ft. to the south southeast, was adjacent to both of these resource categories.

Published materials from the 19th-century reveal that stray finds of Indian artifacts were fairly common on the neck, and note a shell midden and possible fishing camp in the general area. The midden and camp are mapped as overlapping the APE, but unfortunately they are only vaguely sited as somewhere on "Douglass point." Although soil borings conducted in the APE Shore Road roadbed do not indicate the presence of a shell midden, and record no shell at all there, it is possible that the APE was used as a temporary fishing camp, or raw material processing station, functioning as an outpost of the more permanent settlement to the south. In addition, there is also the likelihood that the shoreline slopes of the APE, represented by the seven outfall easement locations, were used as a midden location by campsite occupants.

Based on the data summarized in the preceding paragraphs, the APE must be considered to have a high potential for having hosted precontact and contact period Native American archaeological resources. It must also be noted that precontact and contact period cultural remains are generally shallowly buried and under normal conditions usually encountered in the first 3 ft. below the natural grade. Therefore they are highly susceptible to destruction from subsequent construction, such as road grading and paving, and underground utility installation.

## Existing Disturbance

Within the APE roadbed itself, soil borings record asphalt-topped fill extending 3.5 ft. below the present surface. The buried utilities running along Shore Road are water, gas, and electric lines. An 8 in. water main runs most of the length of the APE, with the exception of the section between Beverly and Knollwood. A water main would be buried more than 4 ft. below the surface to prevent seasonal freezing. Less-extensive and more shallowly buried gas lines (1-1/4 in.) and electric lines are recorded at the eastern curb of Shore Road, the eastern edge of the APE. Some cross the APE from side streets, such as the electrical line from Beverly. These lines would be found within the existing fill stratum, and would not have increased the extent of subsurface disturbance.

Existing storm sewer lines, also generally buried at a depth greater than 4 ft. below the surface, cross the APE roadbed and the present outfall locations: No. 3, Knollwood (4 in.), No. 4, Grosvenor; No. 5, Westmoreland (8 in.); and No. 6, Manor (12 in.).

There are no subsurface data for the outfall easement locations. Photographs and maps do not provide sufficient detail to determine the appearance of the shoreline prior to the construction of Shore Road. Although some subsurface disturbance would be expected from the construction of the timber retaining wall and concrete sidewalk at Outfall No. 1 (West Drive) and Outfall No. 2 (Bayview/Kenmore), it is possible that the retaining wall and sidewalk were built over and out from the existing shoreline, with minimal excavation into and disturbance of the shoreline slope.

## Proposed disturbance

## Shore Road Resurfacing

Milling and resurfacing of Shore Road, the resetting of granite-block curbs, and construction of pedestrian ramps in the APE would not cause subsurface impacts greater than that resulting from the original construction of Shore Road during the 20th century. Disturbance would impact only the upper part of the introduced fill (extending 3.5 ft. below current road surface) from this construction episode and any subsequent repairs or utility installation.

Shore Road Catch Basins, Manholes, and Storm Sewer Piping

In addition to the seven storm-water outfalls to be constructed on easements on the bay side of Shore Road (discussed further below), new catch basins will be installed at each of the Shore Road and side-street intersections, for a total of 43; 23 new manholes will be installed, and piping to link the catch basins, manholes, and outfalls (Figures 7,8,10,12,13,15).

The depth of subsurface disturbance from this construction ranges between 3.95 and 15 ft. below the present surface of Shore Road, and generally between 4 and 10 ft., beneath the existing stratum of asphalt and 20th-century fill that extends 3.5 ft. below the present APE road surface.

## Collapses

## Collapse 1: Bayview Avenue (Figure 3)

Recommended repairs in this section of the APE include the installation of steel sheet piling or some other retaining structure extending approximately 25 ft. below the current surface along the western or bay side of the curbline. The existing roadbed will be excavated to approximately 5 ft. below the current surface, cutting as steeply as possible toward the deeper excavation necessary for the retaining structure along the western side of the road. Additional depth of excavation below the minimum may be required should the exposed subgrade be composed of poor or loose materials.

## Collapse 2: Manor Road (Figure 4)

Recommended repairs in this section of the APE include the excavation of the Shore Road roadbed to approximately 5 ft. below the current surface, cutting in the edge of excavation as steeply as possible from each side of the road, or using temporary shoring if necessary. Additional depth of excavation below the minimum may be required should the exposed subgrade be composed of poor or loose materials. A concrete retaining wall will be built along the western/bay side of the road, but additional excavation beyond 5 ft. below the current surface is not anticipated.

## **Outfall Locations**

The new storm drainage network upgrades 4 existing outfalls, and creates 3 new outfalls. The outfalls, along the bay side of Shore Road, will be within the 20 ft. wide sewer easements on private parkland, the easements to be acquired from the DMA. Construction will entail open-cut excavation to install the sewer piping beneath Shore Road, as well as in the outfall easements.

Proposed minimum depths of excavation below the current surface in the outfall locations are: (1) West Drive, >14 ft.; (2) Between Bayview Avenue and Kenmore Road, >11 ft.; (3) Knollwood Avenue, 6 ft.; (4) Grosvenor Street, >10 ft.; (5) South of Westmoreland Place, >8 ft.; (6) Manor Road, >11 ft.; and (7) Hollywood Avenue, >8 ft.

## Precontact and Contact Period Sensitivity

Although the APE is considered to have a high potential for hosting precontact/contact archaeological resources in general, construction impacts in parts of the APE would have eliminated much of this potential. The main area eliminated is the roadbed of Shore Road, which, based on soil boring data, would have suffered regrading and replacement of the upper 3.5 ft. of the predevelopment surface. This disturbance would have eliminated shallowly

buried potential precontact/contact archaeological resources, and the roadbed is therefore NOT SENSITIVE. Although additional disturbance from water main and storm sewer lines caused deeper disturbance in small sections of the roadbed, this disturbance appears to impact glacial subsoils rather than a former precontact land surface.

The seven outfall locations, shown in plan and aerial photographs in Figures 7–16, are considered SENSITIVE for precontact/contact archaeological resources. There is no subsurface data for these locations. Although the steep slopes would not have been used for a campsite or processing area, as noted above, they would have provided an excellent midden location for the occupants of the neck. The easement locations will suffer major construction impacts from the cut-and-cover excavation planned for outfall installation.

## Recommendations

Based upon these conclusions, it is recommended that a program of archaeological testing at the seven outfall locations be designed and undertaken by an archaeological consultant in coordination with the NYCLPC. The protocol might include a series of machine-excavated trenches at each of the outfall locations, shovel test pits, and, depending on the results, additional archaeological monitoring during construction. All archaeological testing should be conducted according to applicable archaeological standards (NYCLPC 2002), and in consultation with the NYCLPC. RPA-certified professional archaeologists would be required to be part of the archaeological team.

Because there is no subsurface data for the sensitive outfall locations, the depth of the precontact/contact archaeological resources is unclear. In the interest of more sharply focusing the scope of testing, if additional soil borings or other relevant subsurface data become available prior to the commencement of the proposed testing, the data should be furnished to the archaeologists designing the testing protocol.

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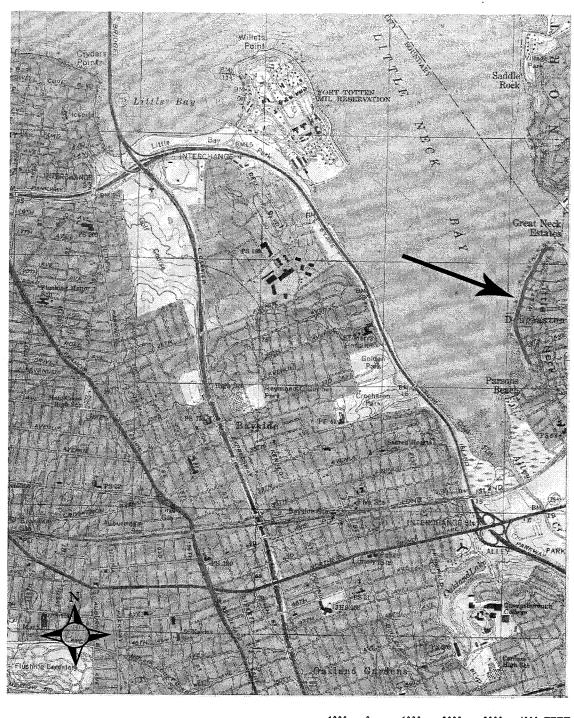
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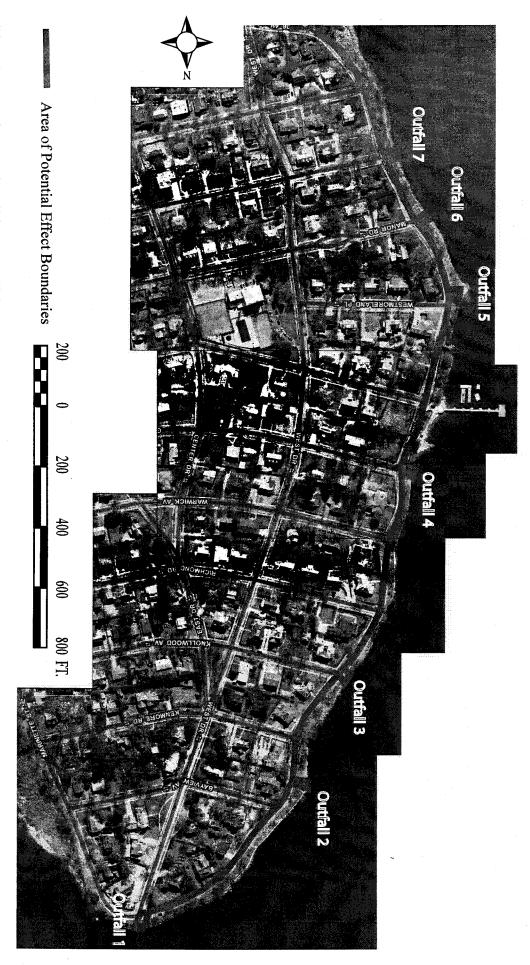
Area of Potential Effect Boundaries

1000 0 1000 2000 3000 4000 FEET

ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 1. USGS, Flushing, NY, 7.5 minute topographic quadrangle, 1995





SOURCE: NYCityMap <a href="http://gis.nyc.gov/doitt/nycitymap/">http://gis.nyc.gov/doitt/nycitymap/</a>

ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 2. Aerial Photo, 2008



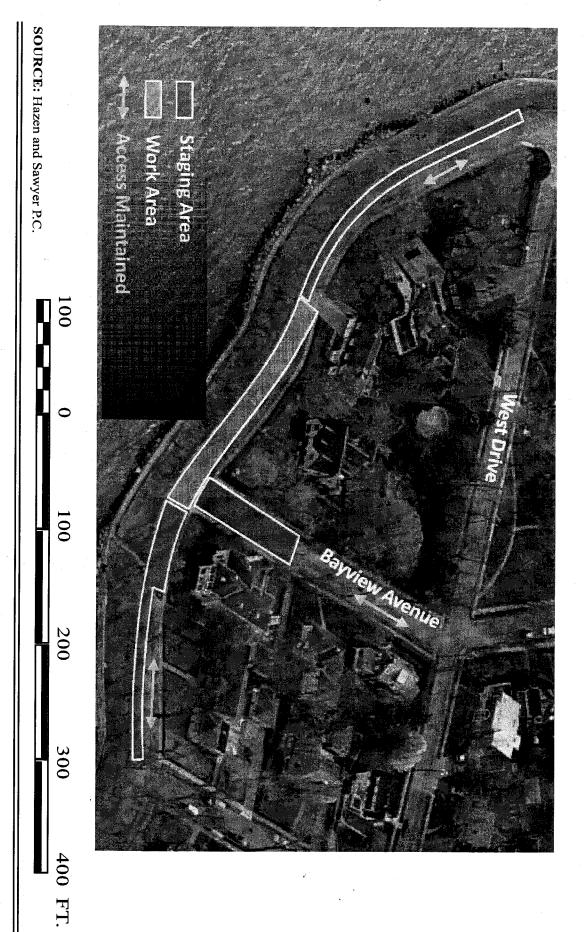


Figure 3. Current Aerial Photo, Collapse 1: Bayview Avenue



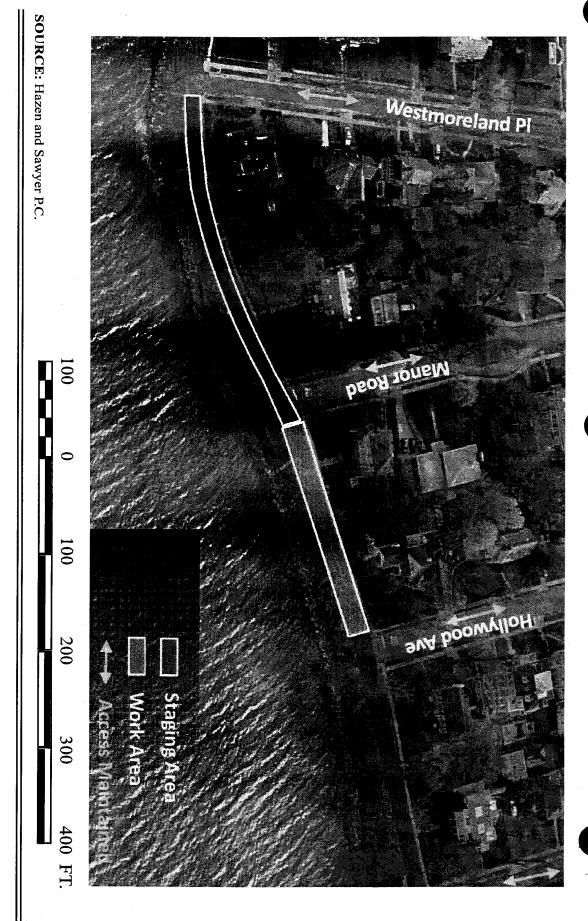


Figure 4. Current Aerial Photo, Collapse 2: Manor Road





Area of Potential Effect Boundaries

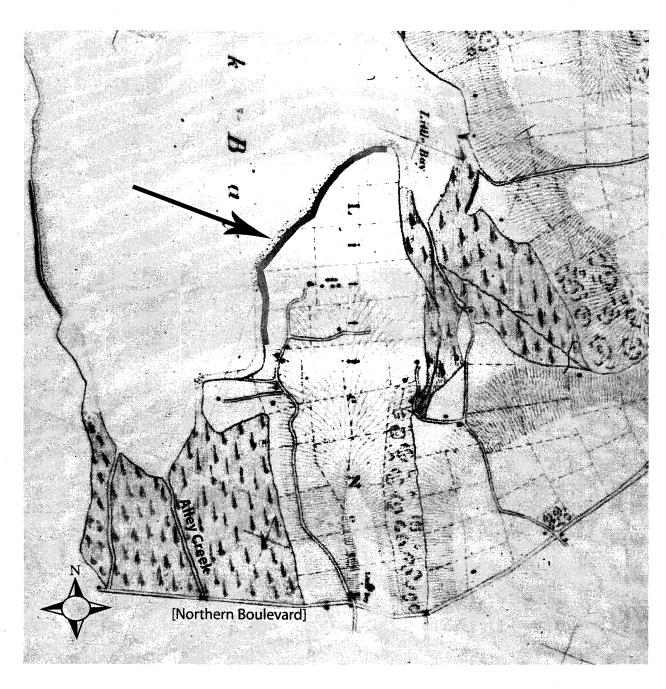
SOURCE: Long Island Division, Queens Library

(Scale approximate)
1000 0 1000 2000 3000 4000 FEET

# ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 5. Taylor and Skinner, Map of New York & Staten Islands and Part of Long Island, 1781





Area of Potential Effect Boundaries

750 0 750 1500 2250 3000 FT

SOURCE: University of Alabama <a href="http://alabamamaps.ua.edu">http://alabamamaps.ua.edu</a>

# ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 6. USCS, Great Neck on Long Island, N.Y., 1850 (Surveyed 1837)



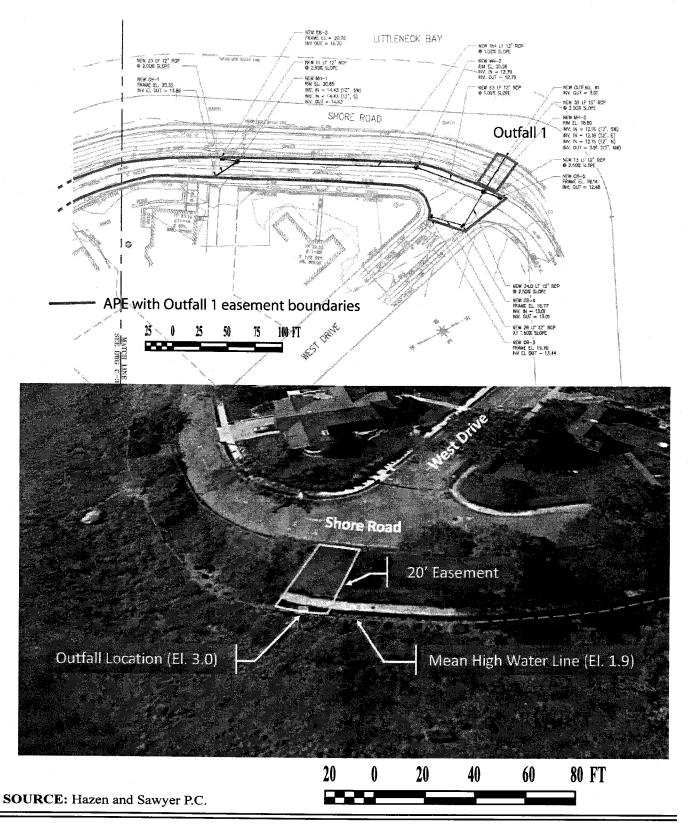


Figure 7. Outfall 1, West Drive
Plan of proposed outfall, catch basins, manholes, and piping (top)
Current aerial photo, showing outfall easement (bottom)



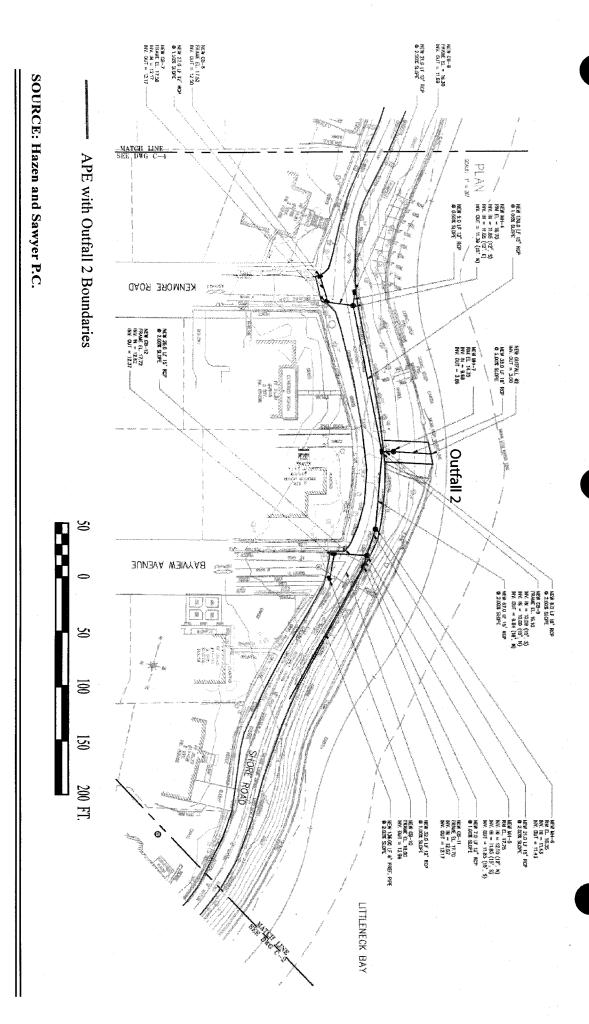
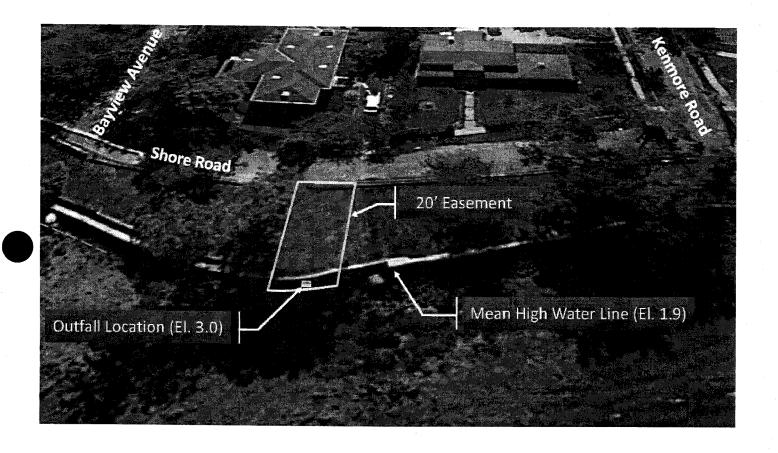


Figure 8. Outfall 2, Bayview Avenue to Kenmore Road
Plan of proposed outfall, catch basins, manholes, and piping







SOURCE: Hazen and Sawyer P.C.

Figure 9. Current Aerial Photo, Outfall 2, between Bayview Avenue and Kenmore Road



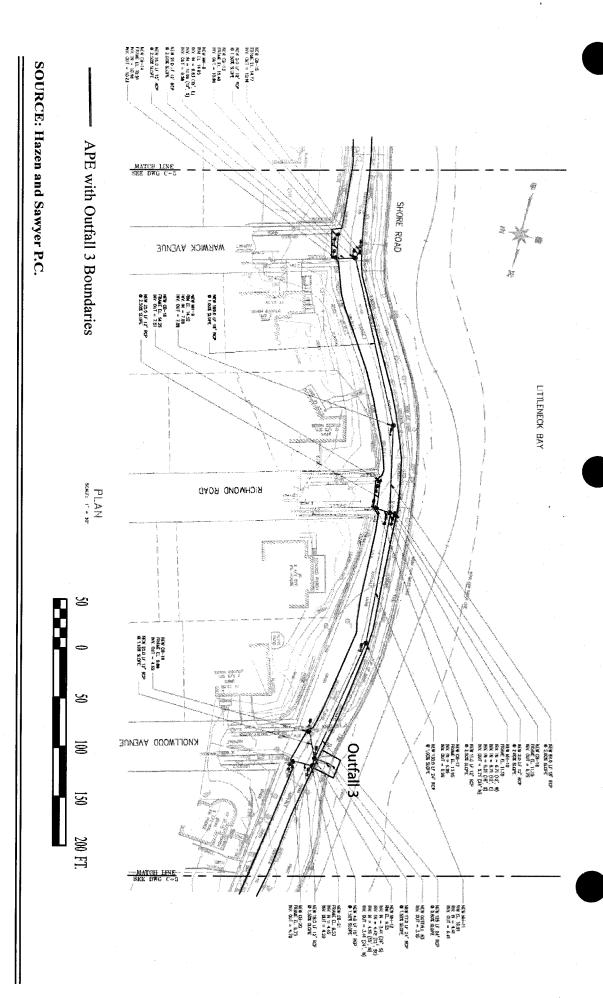
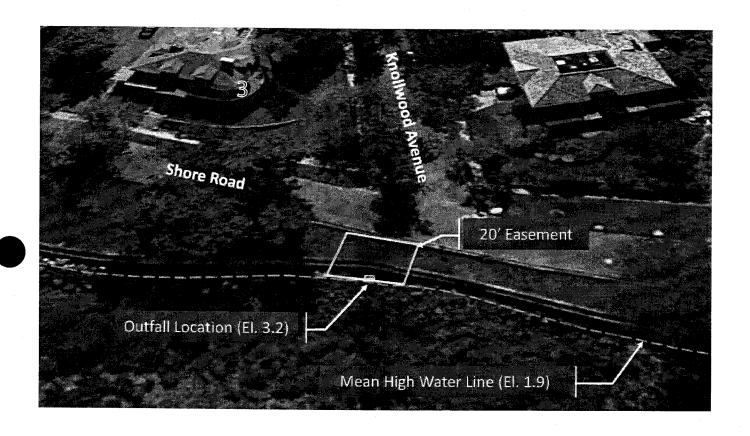


Figure 10. Outfall 3, Knollwood Avenue
Plan of proposed outfall, catch basins, manholes, and piping





20 0 20 40 60 80 FT

SOURCE: Hazen and Sawyer P.C.

# ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 11. Current Aerial Photo, Outfall 3, Knollwood Avenue



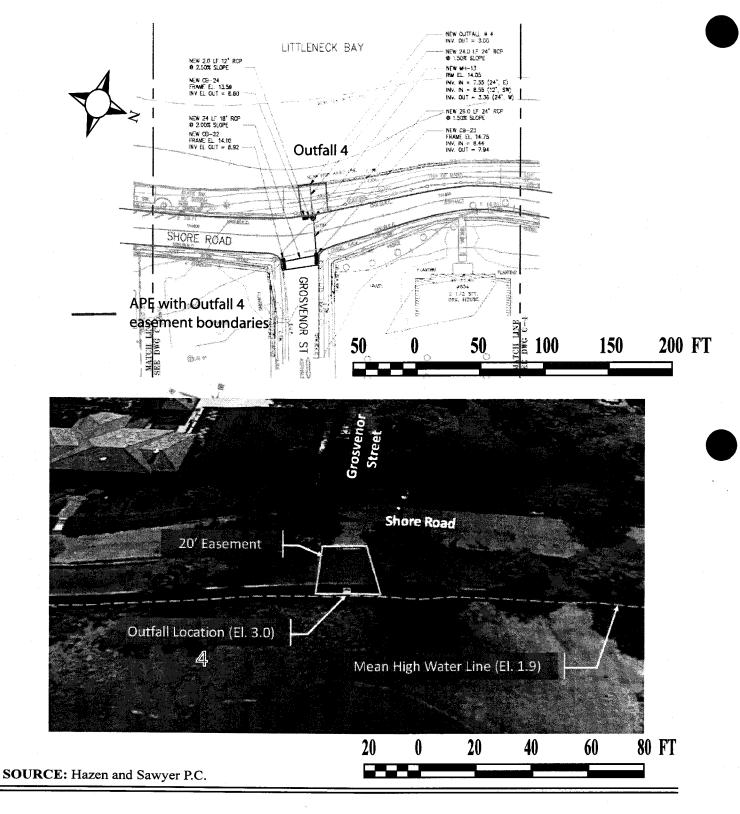


Figure 12. Outfall 4, Grosvenor Street
Plan of proposed outfall, catch basins, manholes, and piping (top)
Current aerial photo, showing outfall easement (bottom)



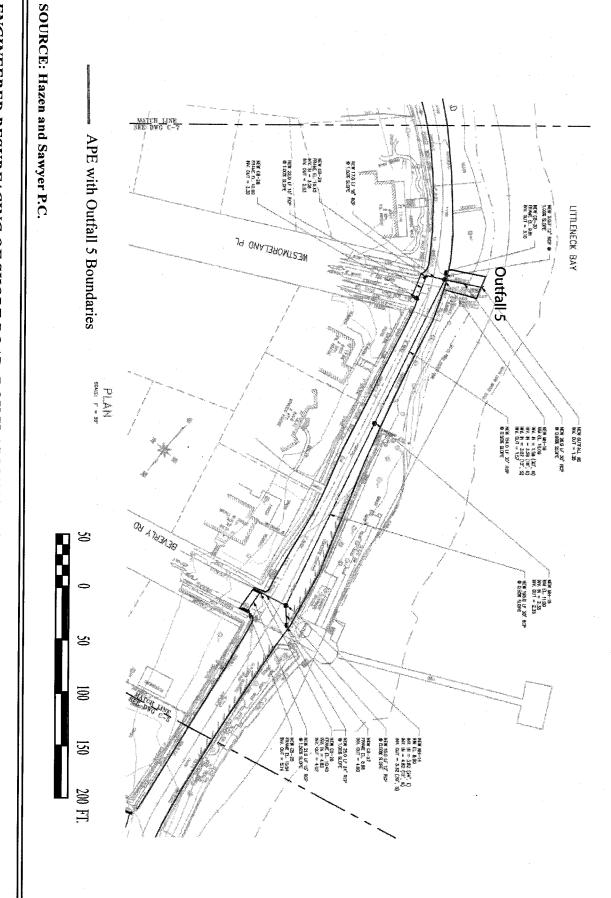
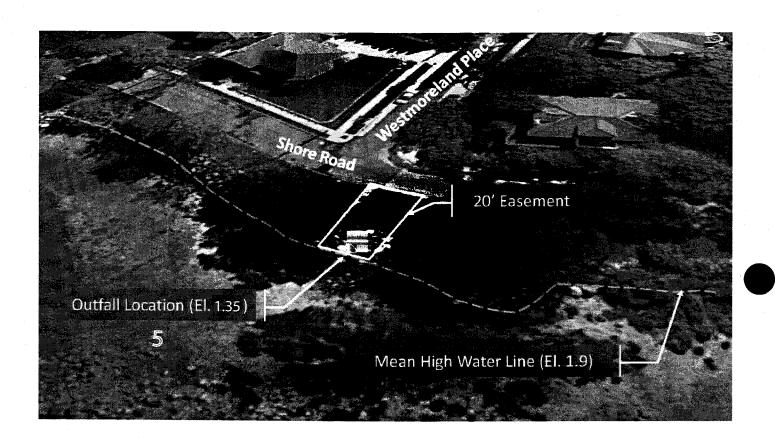


Figure 13. Outfall 5, Westmoreland Place
Plan of proposed outfall, catch basins, manholes, and piping



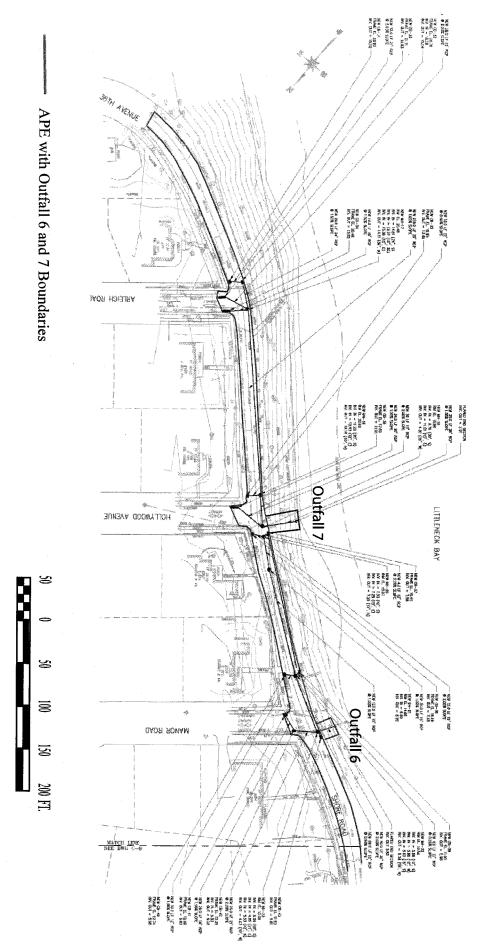




SOURCE: Hazen and Sawyer P.C.

Figure 14. Current Aerial Photo, Outfall 5, Westmoreland Place





SOURCE: Hazen and Sawyer P.C.

Figure 15. Outfall 6, Manor Road and Outfall 7, Hollywood Avenue Plan of proposed outfall, catch basins, manholes, and piping



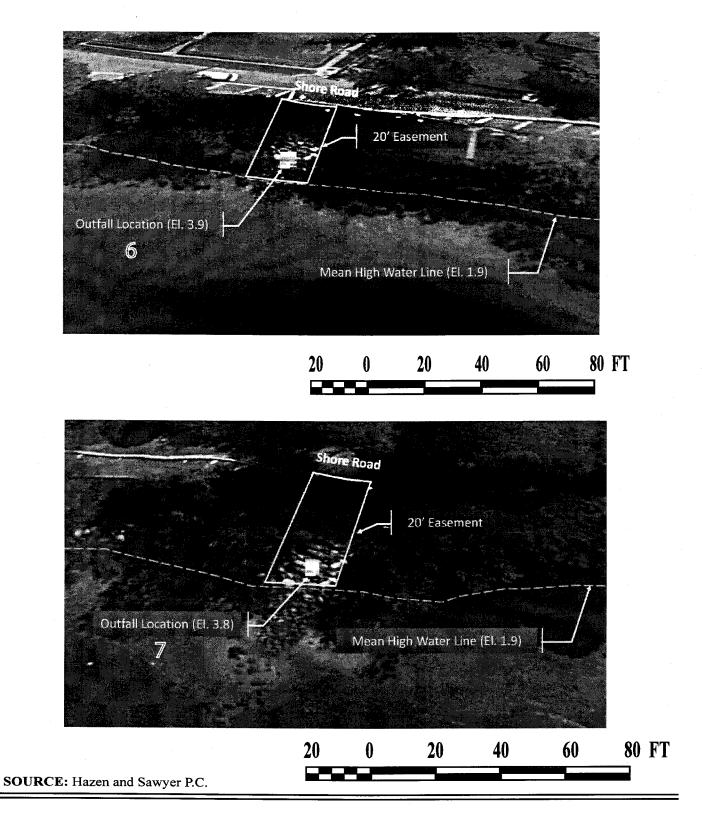
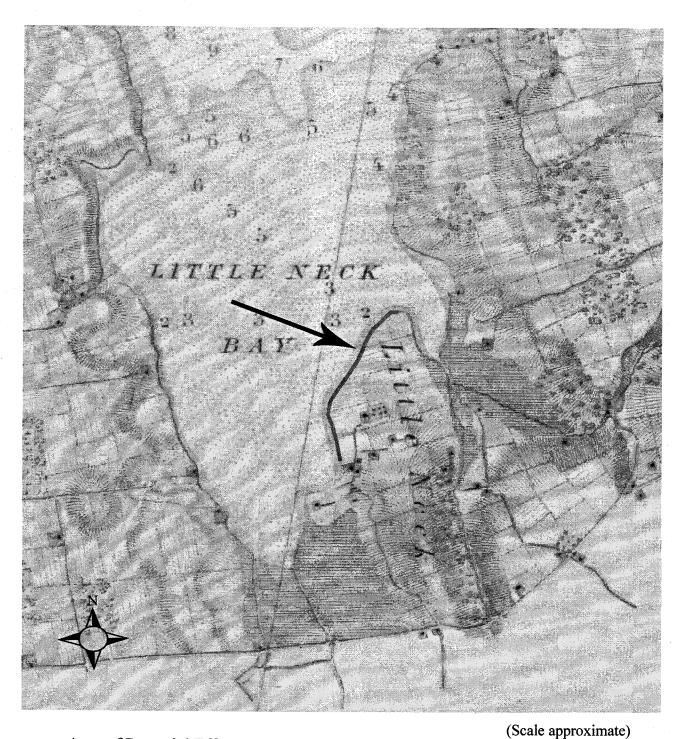


Figure 16. Current Aerial Photo, Outfall 6, Manor Road (top) and Outfall 7, Hollywood Avenue (bottom)





Area of Potential Effect Boundaries

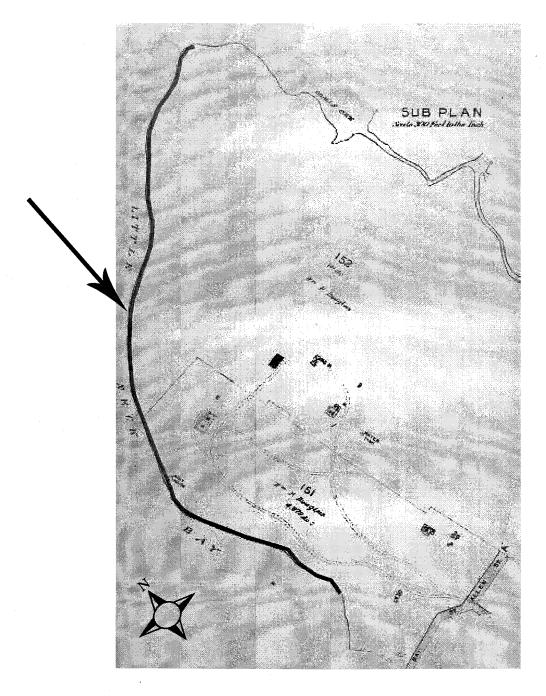
1000 0 1000 2000 3000 4000 FT

SOURCE: Office of the Coast Survey <a href="http://historicalcharts.noaa.gov">http://historicalcharts.noaa.gov</a>

ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 17. USCS, Long Island Sound, Western Part, 1860





Area of Potential Effect Boundaries

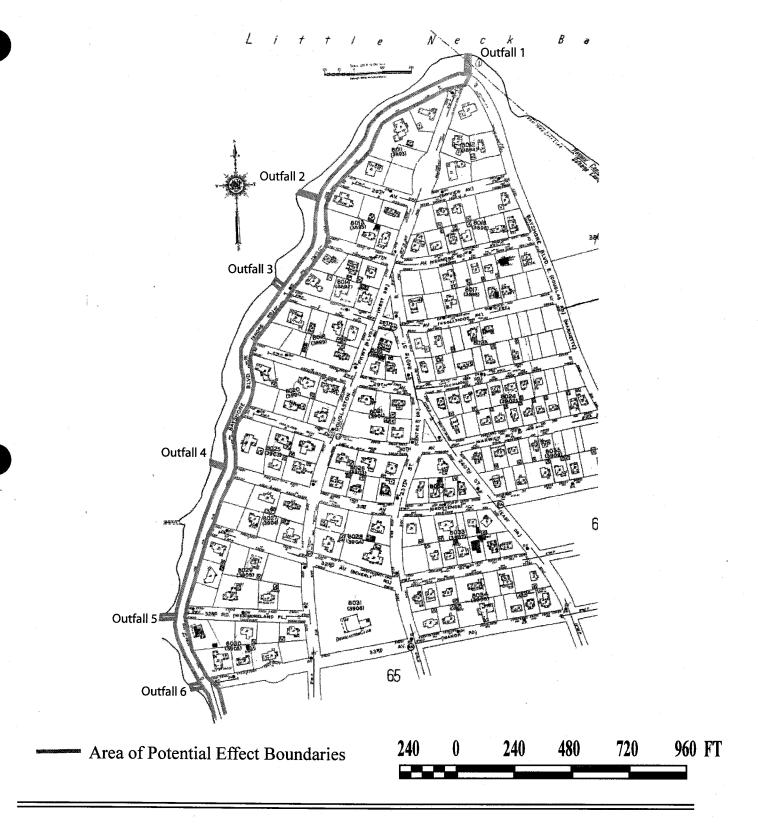
200 0 200 400 600 800 FT

SOURCE: New York Public Library Digital Collection <a href="http://www.nypl.org">http://www.nypl.org</a>

ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 18. Hyde, Atlas of the Borough of Queens, 1908

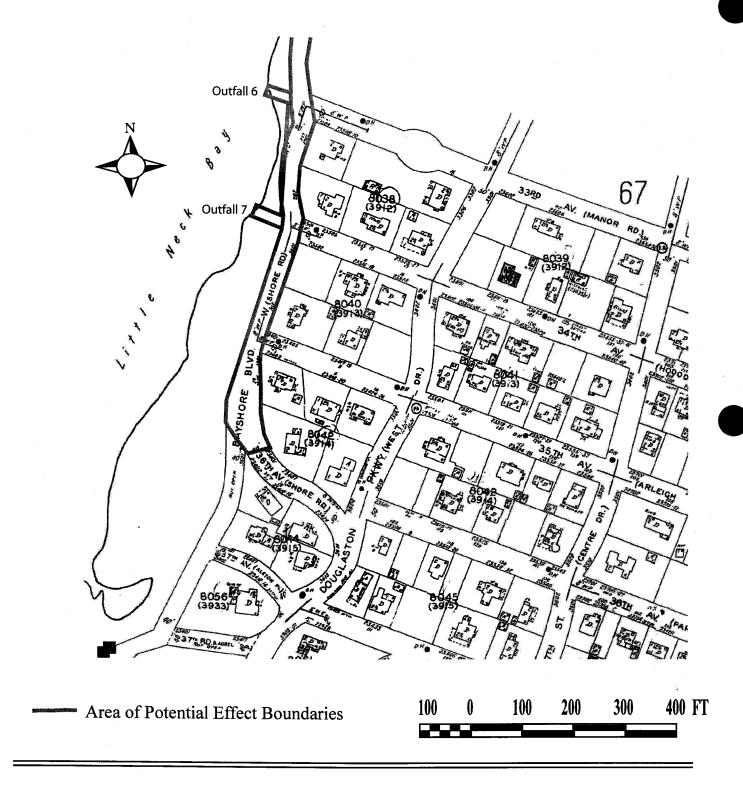




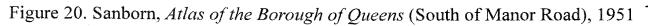
## ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY

Figure 19. Sanborn, Atlas of the Borough of Queens (North of Manor Road), 1951





## ENGINEERED RESURFACING OF SHORE ROAD, DOUGLAS MANOR, QUEENS, NY





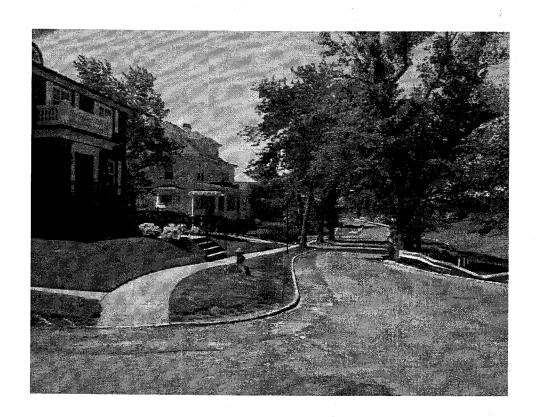


Photo 6. Shore road, view south from north side of the Shore Road/Kenmore Road intersection Photo 7. Looking west down Knollwood Avenue toward Shore Road.

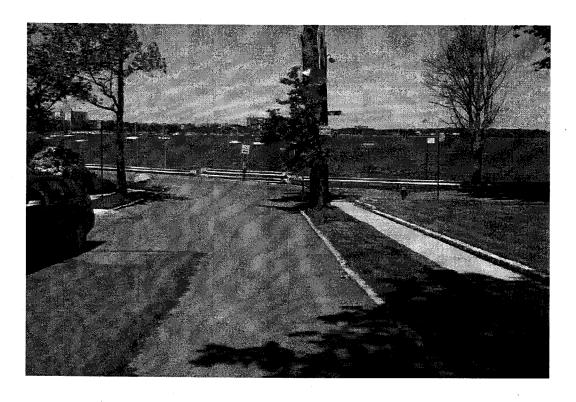




Photo 8. View south from west of Shore Road of the Outfall No. 3 location at the foot of Knollwood Avenue.

Photo 9. Looking south along Shore Road from north side of Richmond Road.

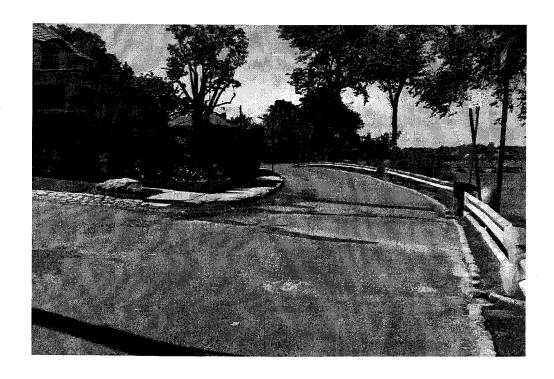
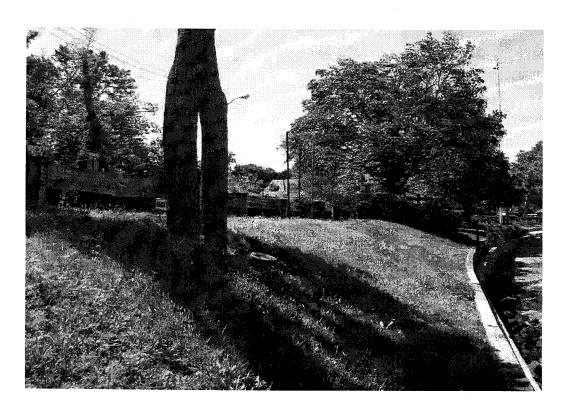




Photo 10. View westward along Grosvenor Street toward the Shore Road intersection.

Photo 11. Looking south from the west side of Shore Road toward the location of Outfall No. 4 at the foot of Grosvenor Street.



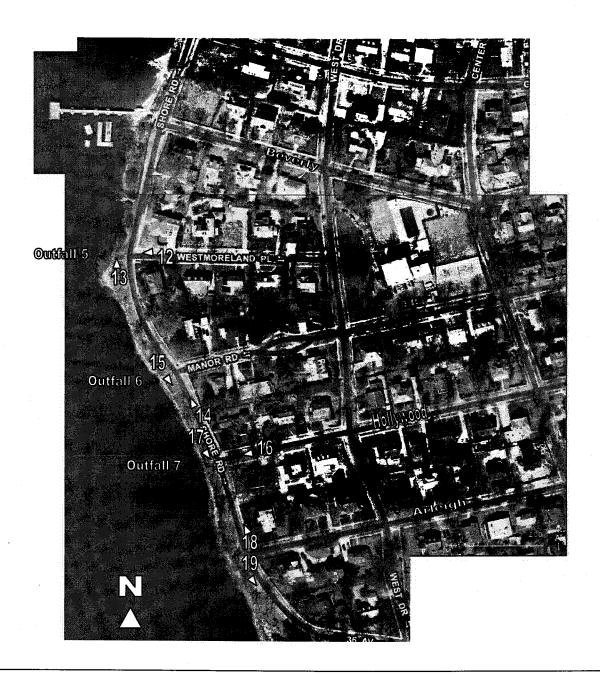


Photo Key Map 2 — Shore Road APE south of Grosvenor

Base map: 2008 Aerial photo (NYCityMap <a href="http://gis.nyc.gov/doitt/nycitymap/">http://gis.nyc.gov/doitt/nycitymap/</a>) Scale: 1 in. = 200 ft.

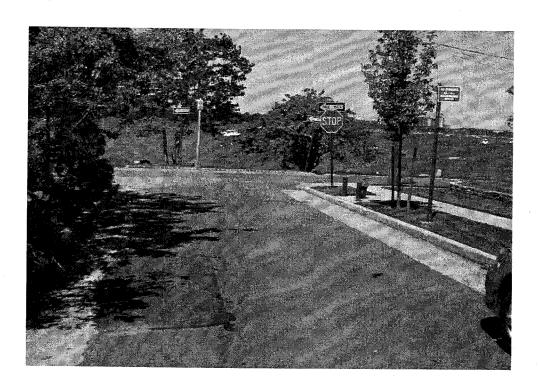


Photo 12. View westward down Westmoreland Place toward the Shore Road intersection.

Photo 13. Looking north from the west side of Shore Road toward the location of Outfall No. 5 at the foot of Westmoreland Place.

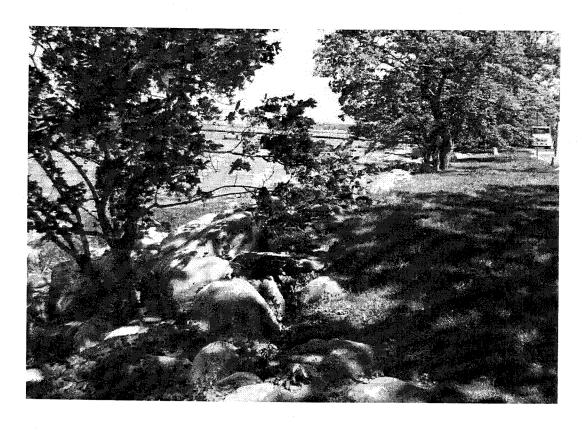




Photo 14. Looking north along Shore Road from midway between Manor Road and Hollywood Avenue. Collapse No. 2 is at the left (west). Outfall No. 6 location is at the foot of Manor Road, to the left (west) of the orange plastic pylon.

Photo 15. View south from the west side of the Shore/Manor road intersection showing the Outfall No. 6 location and Collapse No. 2.



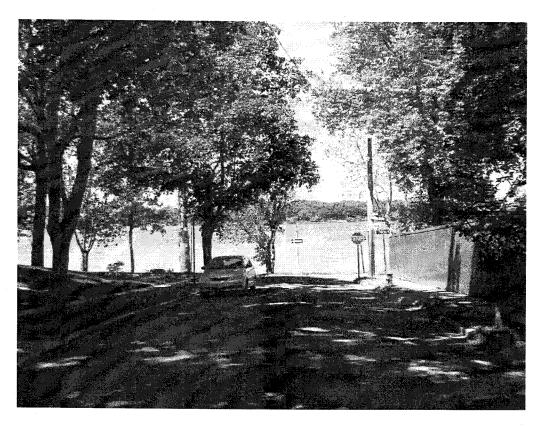


Photo 16. View west on Hollywood Avenue toward Shore Road.

Photo 17. Location of Outfall No. 7 at the foot of Hollywood Avenue. View is toward the south, with Shore Road at the left (east).



Phase 1A Documentary Study: Engineered Resurfacing of Shore Road, Douglas Manor, Queens, New York



Photo 18. View north along Shore Road from the north side of Shore/Arleigh road intersection.

Photo 19. View southeast along Shore Road toward 36th Avenue from the Arleigh Road intersection.



Phase 1A Documentary Study: Engineered Resurfacing of Shore Road, Douglas Manor, Queens, New York

# HISTORICAL PERSPECTIVES INC.



# APPENDIX

# Soil Boring Logs

See Contract Drawings; Sheets 56 thru 64 (SB-1 thru SB-9)

**Phase 1A Documentary Study** 

**Engineered Resurfacing of Shore Road** 

Douglas Manor, Queens, New York

NO TEXT THIS PAGE

# HISTORICAL PERSPECTIVES INC.



April 23, 2014

New York City Department of Design and Construction Department of Transportation Engineered Resurfacing of Shore Road, Douglas Manor, Queens, NY Capital Project HWQ985

#### Phase IA Documentary Study Addendum

#### Introduction

The New York City Department of Design and Construction (DDC) has initiated plans for improvements to Shore Road between 36<sup>th</sup> Avenue and West Drive, a historic street along the shore of Little Neck Bay in the neighborhood of Douglas Manor, Borough of Queens. Overall, Shore Road is to be rehabilitated largely as is, maintaining the variable roadway widths, granite-block curbs, and the original Douglas Manor surface runoff system of spillways and scuppers that directs stormwater runoff into Little Neck Bay. Because there is no storm sewer system, a new roadway drain system will be constructed on Shore Road, including new catch basins, new manholes, and proposed new drain outfalls into Little Neck Bay. In two locations in particular (Shore Road near the foot of Bayview Avenue and between Hollywood Avenue and Manor Road), the roadway is collapsing and it will be necessary to reestablish the grade and provide additional support using geogrid to prevent future sub-base erosion. The proposed roadway repair at Bayview Avenue will also include sheeting to provide additional support deemed necessary due to the subsurface condition.

Since the proposed improvements require a City agency making a discretionary decision on the proposed project, this action is subject to City Environmental Quality Review (CEQR). In accordance with CEQR regulations and procedures, the New York City Landmarks Preservation Commission (LPC) has required a Phase 1A Documentary Study for this undertaking, citing the potential for precontact archaeological remains in the project site.

As a function of the required CEQR study and under Capital Project HWQ985, Historical Perspectives, Inc. (HPI) conducted the necessary documentary research and site inspection to produce the required technical report on archaeological sensitivity for the Shore Road corridor. HPI's analysis was based on the Area of Potential Effect (APE) as per project designs in 2011. Based upon the Phase IA Study, completed in 2011, HPI recommended a limited program of archaeological testing at seven outfall locations. Such field testing would establish subsurface conditions at the seven installation areas and determine whether any precontact period archaeological resources might be impacted.

LPC accepted HPI's technical report and requested a scope, or protocol for the recommended field testing (5/11/12). Prior to the initiation of archaeological field investigations in New York

City, an archaeological testing protocol must be established and submitted to LPC for review and approval.

Subsequent to the 2011 Phase IA evaluation by HPI, the width of the Shore Road repair easement at both the drain outfall locations and the road repair sections was widened to accommodate proposed improvements. The original easement for the outfall locations was 20 feet, and the new outfall easement is 30 feet. Two proposed drain outfalls were eliminated from project designs and the easement for two street repair sections was widened. See the attached graphics that illustrate the new easement and designs for each proposed outfall and repair section (3/31/14).

Due to the change in design parameters, HPI has reviewed the 2011 Phase IA Archaeological Documentary Study analysis, conclusions, and recommendations. This Addendum presents the review findings.

#### Addendum Evaluation by Outfall

will be 11 feet.

- Designated as Outfall #6 in the 2011 Phase IA, the Manor Road outfall location has not been altered. The outfall location descends from an elevation of approximately 13 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an invert elevation of 3.19 ft. along the bay side of the location at the base of the slope. The proposed minimum depth of excavation below the current surface
- Outfall Easement # 2, intersection of Westmoreland Place and Shore Road

  Designated as Outfall #5 in the 2011 Phase IA, the outfall location at the foot of
  Westmoreland Place has been shifted slightly from the south side of the intersection to the
  north side of the intersection. The outfall location descends from an elevation of
  approximately 10.5 ft. (above mean low water) on the bay edge of Shore Road to mean high
  water at 1.9 ft. The proposed outfall elevation along the bay side of the location at the base
  of the slope would have an invert elevation of 1.09 ft. The proposed minimum depth of
  excavation below the current surface will be 8 feet.
- Outfall Easement # 3, intersection of Knollwood Avenue and Shore Road
  Designated as Outfall #3 in the 2011 Phase IA, the outfall location at the foot of Knollwood
  Avenue has not been altered. The Knollwood Avenue outfall location descends from an
  elevation of approximately 10 ft. (above mean low water) on the bay edge of Shore Road to
  mean high water at 1.9 ft. The proposed outfall would have an invert elevation of 3.68 ft.
  along the bay side of the location at the base of the slope. The proposed minimum depth of
  excavation below the current surface will be 6 feet.
- Outfall Easement # 4, between the Shore Road intersections of Bayview Avenue and Kenmore Road

Designated as Outfall #2 in the 2011 Phase IA, the outfall location between Bayview Avenue and Kenmore Road has not been altered. This outfall location descends sharply from an elevation of approximately 16 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an invert elevation of

3.01 ft. along the bay side of the location. The bay side of this proposed location includes an existing concrete seawall. The proposed minimum depth of excavation below the current surface will be 13 feet.

#### Outfall Easement # 5, intersection of West Drive and Shore Road

Designated as Outfall #1 in the 2011 Phase IA, the outfall location at the foot of West Drive has not been altered. It descends sharply from an elevation of approximately 20 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed outfall would have an invert elevation of 2.87 ft. along the bay side of the location. The bay side of this proposed location includes an existing timber retaining wall with a concrete foundation and walkway. The proposed minimum depth of excavation below the current surface will be 17 feet.

The proposed Grosvenor Street drain outfall, designated as Outfall #4 in the 2011 Phase IA, and the proposed Hollywood Avenue drain outfall, designated as Outfall #7 in the 2011 Phase IA, has been eliminated from current design plans (2014) and there are no further APE considerations for the foot of Grosvenor Street.

#### Addendum Evaluation by Repair Location

#### Roadway Repair Easement # 1, Shore Road between Hollywood Avenue and Manor Road

Originally designed as an outfall location and designated as Outfall #7 in the 2011 Phase IA, only road improvements are now designed for the outboard portion from approximately the intersection of Hollywood Avenue to Manor Road. The roadway reconstruction easements extend outside the bayside "edge of pavement" for approximately 34 to 35 feet from Monument MJBL-64 at Hollywood Avenue to the north and west for 224.36 feet to the foot of Manor Road. This bay side section of the corridor descends sharply from an elevation of approximately 16.5 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed repair section would tie into the existing grade along the bay side at the base of the slope.

Recommended roadway repairs in this section of the APE include the excavation of the Shore Road roadbed to approximately 5 ft. below the current surface. Additional depth of excavation below the minimum may be required should the exposed subgrade be composed of poor or loose materials. Silt fencing will be installed prior to construction and new shrubs will be installed along the western/bay side of the road, but additional excavation beyond 5 ft. below the current surface for the roadway repair is not anticipated at this time. The trench excavation for the sewer pipe installation is approximately 10 ft. below existing grade within the repair area limits.

# • Roadway Repair Easement # 2, intersection of Bayview Avenue and Shore Road New road improvements are designed for an outboard portion of Shore Road that begins roughly at the intersection of Bayview Avenue and Shore Road and moves northward for approximately 200 feet. The roadway reconstruction easements extend outside the bayside "edge of pavement" for approximately 33 to 40 feet. This repair location descends sharply from an elevation of approximately 16 ft. (above mean low water) on the bay edge of Shore Road to mean high water at 1.9 ft. The proposed repair section would tie into the existing grade along the bay side of the location.

### P.O. Box 529 • Westport • Connecticut • 06881

The bay side of this proposed repair strip includes an existing timber retaining wall with a concrete foundation and walkway. Recommended repairs in this section of the APE include the installation of steel sheet piling extending approximately 25 ft. below the current surface along the western or bay side of the curbline. The existing roadbed will be excavated to approximately 5 ft. below the current surface. Additional depth of excavation below the minimum may be required should the exposed subgrade be composed of poor or loose materials. The trench excavation for the sewer pipe installation is approximately 7 ft. below existing grade within the repair area limits.

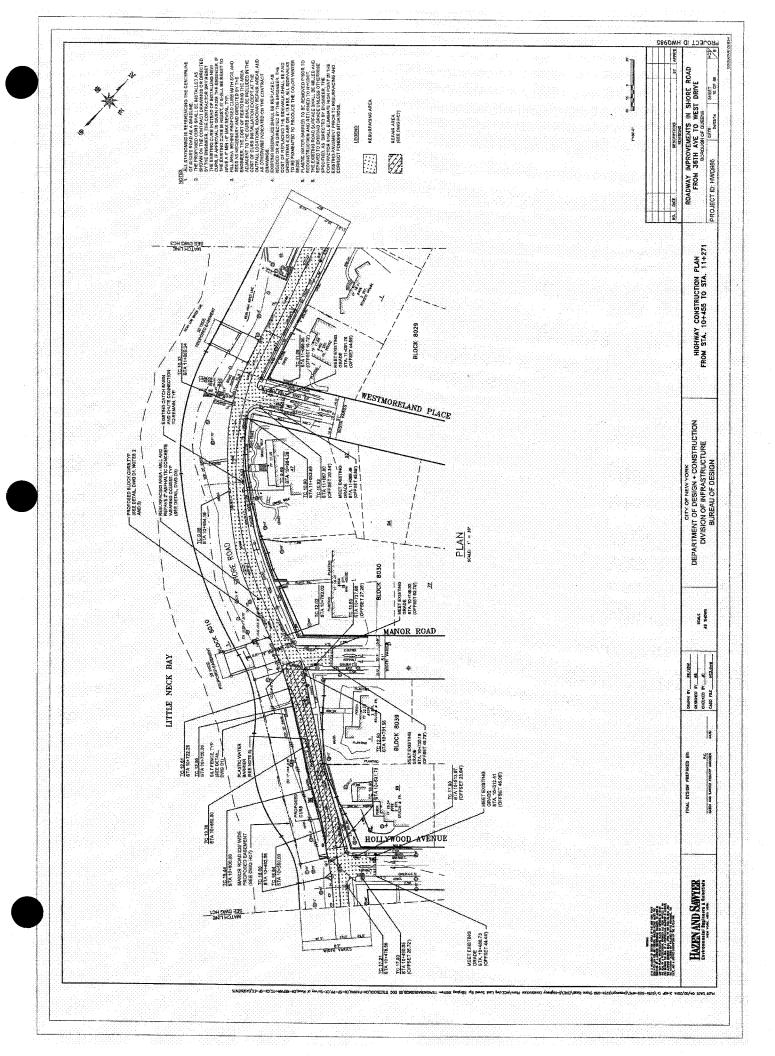
#### **Conclusions** and Recommendations

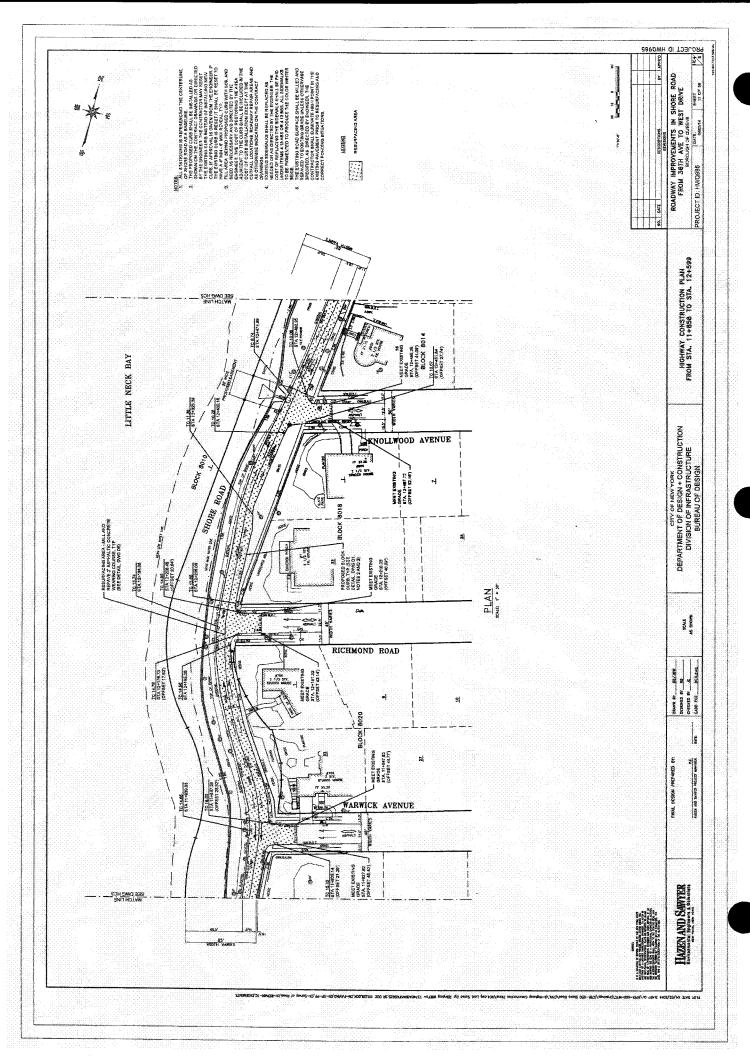
The current changes in the easement sizes and outfall designs for the Shore road improvements have not altered the 2011 conclusions and recommendations. The construction plans to use opencut excavation to install the sewer piping in the outfall easements remain the same. The 2011 conclusions for the APE must be considered still valid.

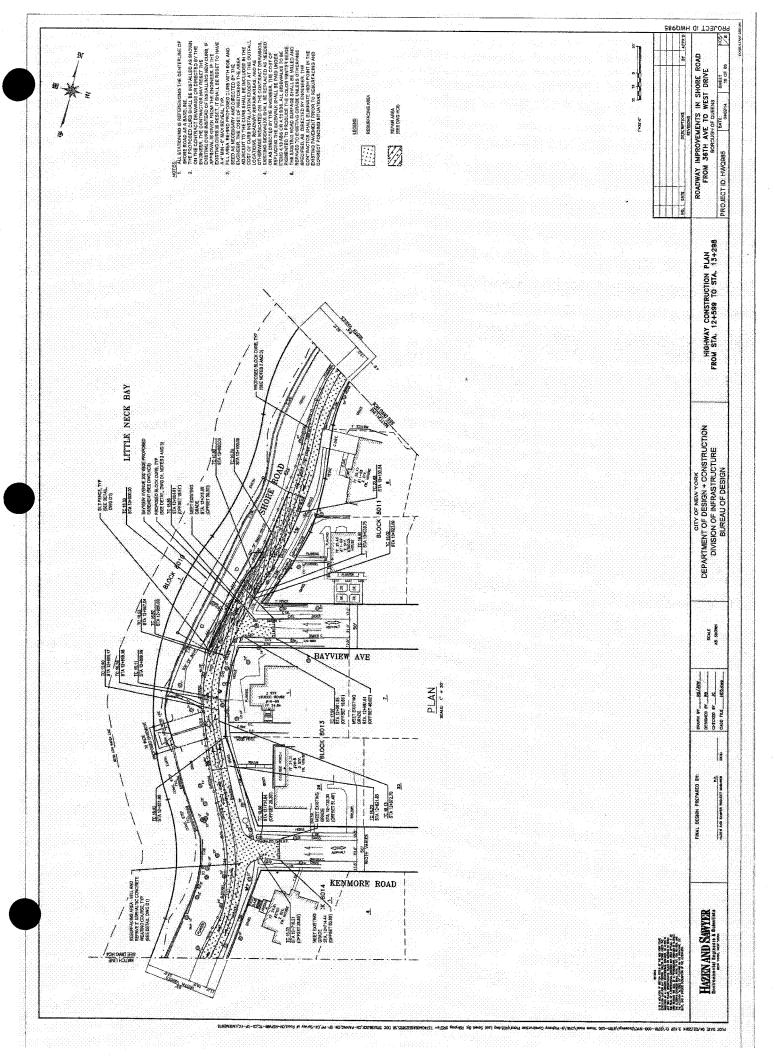
As noted previously, the revised APE is considered to have no potential sensitivity for historical period archaeological resources, and no further study or testing regarding historical resources is recommended. However, the APE for the five outfall locations and the two road improvement sections has a high potential for precontact and contact period Native American archaeological resources. That sensitivity must be weighed against the fact that precontact and contact period cultural remains are generally shallowly buried and under normal conditions usually encountered in the first three feet below the natural grade. Therefore they are highly susceptible to destruction from subsequent construction, such as prior road grading and paving, and underground utility installation.

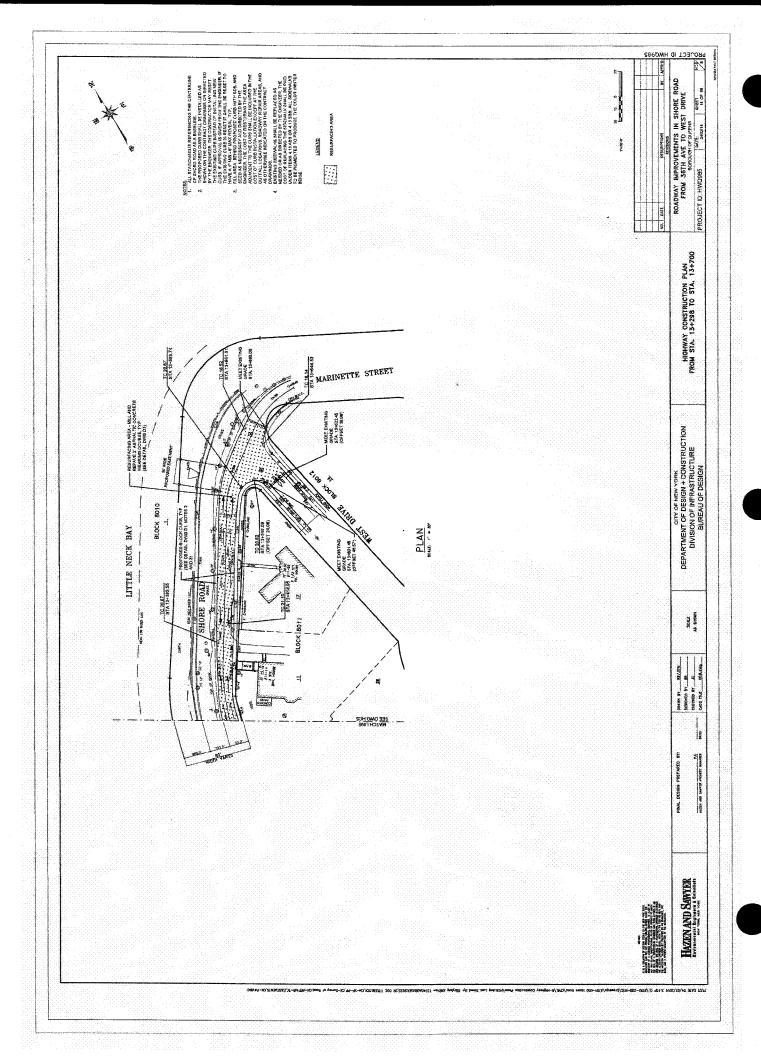
Based upon the review of the 2014 project designs, HPI recommends that a program of archaeological testing at the five drain outfall locations and the two road improvement easements be designed and undertaken by an archaeological consultant in coordination with the LPC. The protocol might include a series of machine-excavated trenches at each of the outfall locations, shovel test pits, and, depending on the results, additional archaeological monitoring during construction. All archaeological testing should be conducted according to applicable archaeological standards (LPC 2002), and in consultation with the LPC. RPA-certified professional archaeologists would be required to be part of the archaeological team.

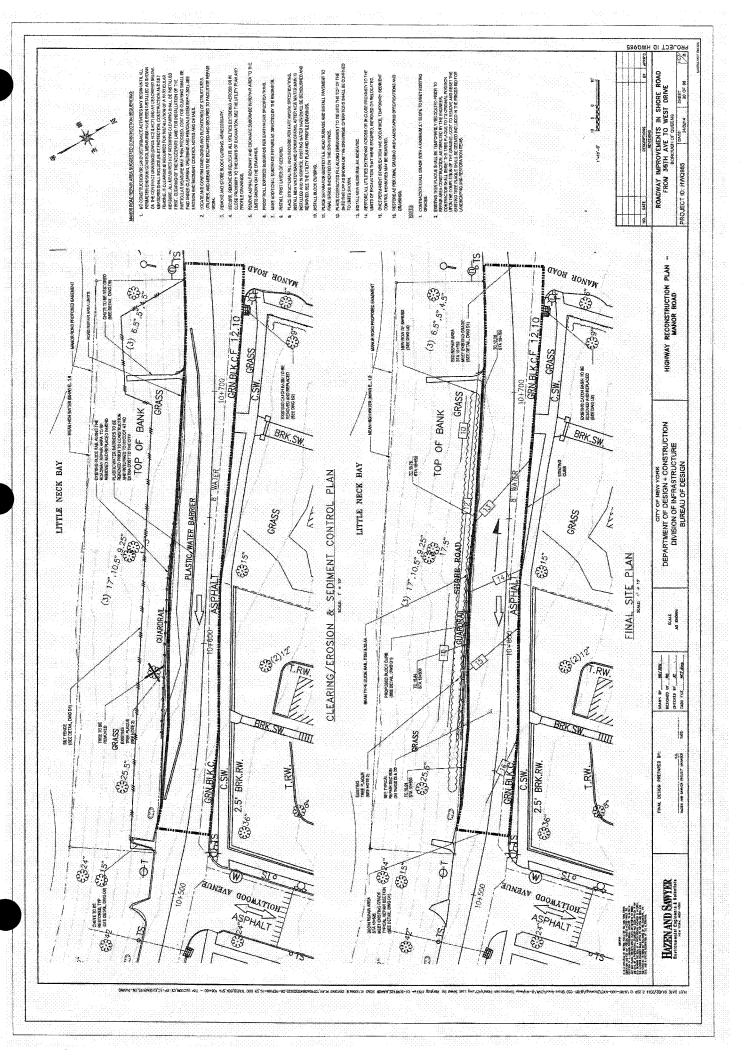
Because there is limited subsurface data for the sensitive locations, the depth of the precontact/contact archaeological resources is unclear. In the interest of more sharply focusing the scope of future testing, if additional soil borings or other relevant subsurface data become available prior to the commencement of the proposed testing, the data should be furnished to the archaeologists designing the testing protocol.











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#### ATTACH TO CONTRACT DOCUMENTS

# THE CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION INFRASTRUCTURE DIVISION BUREAU OF DESIGN

**PROJECT ID: HWQ985** 

**ROADWAY IMPROVEMENTS IN** 

**SHORE ROAD** 

FROM 36TH AVENUE TO WEST DRIVE

**INCLUDING SEWER AND WATER MAIN WORK** 

**Together With All Work Incidental Thereto** 

BOROUGH OF QUEENS CITY OF NEW YORK

**ADDENDUM NO. 2** 

**DATED: April 11, 2014** 

This Addendum is issued for the purpose of amending the requirements of the contract documents and is hereby made part of said contract documents to the same extent as if it was originally included therein.

The Standard Sewer Specifications of the Department of Environmental Protection (dated August 1, 2009), Sewer Design Standards of the Department of Environmental Protection (dated (September 2007) Revised January 2009), Standard Water Main Specifications of the Department of Environmental Protection (dated August 1, 2009), Water Main Standard Drawings of the Department of Environmental Protection (latest revisions), and the Standard Highway Specifications (Volumes I and II) of the Department of Transportation (dated November 1, 2010) of The City of New York, 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. AMENDMENTS TO THE STANDARD HIGHWAY SPECIFICATIONS
- C. AMENDMENTS TO THE STANDARD SEWER SPECIFICATIONS
- D. AMENDMENTS TO THE STANDARD WATER MAIN SPECIFICATIONS

#### A. NOTICE TO BIDDERS

(1) (A) The Contractor is advised that copies of the Standard Sewer Specifications (dated August 1, 2009), Sewer Design Standards (dated (September 2007) Revised January 2009), Standard Water Main Specifications (dated August 1, 2009), Specifications For Trunk Main Work (dated March 2012) and Water Main Standard Drawings (latest revisions) are available to all prospective bidders at no cost upon presentation of receipt of purchase of Bid Package at the following location:

Department of Design and Construction Division of Infrastructure Design Services, Specifications, 3<sup>rd</sup> Floor 30-30 Thomson Avenue Long Island City, NY 11101

(B) The Contractor is advised that copies of the Standard Highway Specifications (Volume I and II) (dated November 1, 2010), Standard Highway Details of Construction (latest revisions), Division of Street Lighting Specifications (latest revisions), Division of Street Lighting Standard Drawings (latest revisions), Standard Specifications for Traffic Signals (latest revisions), and Standard Drawings for Traffic Signals (latest revisions) are available to all prospective bidders for a fee at the following location:

Department of Transportation 55 Water Street, Ground Floor New York City, NY 10041

- (2) The Contractor is notified that it is the intent of this Agency to commence work promptly after registration of the contract and to order the Contractor to commence work within two (2) months after registration.
- (3) The Contractor shall furnish, install, maintain and subsequently remove temporary Protective Tree Barriers. Protective Tree Barriers shall be Type B, unless otherwise directed by the Engineer, and shall 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.
- (4) 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.
- (5) All existing house connections shall be maintained and supported during construction. The Contractor shall 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.
- (6) The Contractor is advised that any City owned light poles, traffic signals, 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 shall be replaced in kind and as directed by the Engineer. The cost of such work shall be deemed included in the prices bid for all items of work under this contract.
- (7) 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 Water Main Specifications of the Department of Environmental Protection (dated August 1, 2009), the Water Main Standard Drawings of the Department of Environmental Protection (latest revisions), the Specifications For Trunk Main Work (dated March 2012), and the contract drawings, shall be replaced with Bolted Split-Sleeve Restrained Coupling.
- (8) 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 shall mean the Item No. "6.52 CG" and the words "Crossing Guard", respectively.

(9) 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 <a href="http://www.eia.gov/petroleum/gasdiesel/">http://www.eia.gov/petroleum/gasdiesel/</a>. 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.

(10)The Contractor is responsible for any damage to the existing street 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 shall be performed according to NYCDOT Bureau of Traffic's Standard Drawings and Specifications 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 Mr. Michael R. LeFosse of New York City Department of Transportation at (718) 786-2236.

#### **B. AMENDMENTS TO THE STANDARD HIGHWAY SPECIFICATIONS**

(NO TEXT)

#### C. AMENDMENTS TO THE STANDARD SEWER SPECIFICATIONS

- (1) Refer to Subsection 1.06.3 Hours Of Work, Page I-4: Add the following to Subsection 1.06.3:
  - (A) <u>HOLIDAY CONSTRUCTION EMBARGO</u> A special Holiday Construction Embargo shall 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 (13) 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 <u>are not</u> 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: <a href="http://www.nyc.gov/html/dot/html/motorist/trafalrt.shtml">http://www.nyc.gov/html/dot/html/motorist/trafalrt.shtml</a>
- (2) Refer to Subsection 1.06.14 Notice To Utility Companies, Etc., To Remove Structures Occupying Place Of Sewers, Water Mains Or Appurtenances, Page I-10:

  Add the following to Subsection 1.06.14:
  - (1) CONSOLIDATED EDISON COMPANY OF NEW YORK (CON EDISON)

There are CON EDISON facilities in the area of construction. The Contractor shall notify CON EDISON at least seventy-two (72) hours prior to the start of construction by contacting Ms. Theresa Kong at (212) 460-4834 or Mr. Noel Leon at (718) 275-2852.

(2) VERIZON

There are VERIZON facilities in the area of construction. The Contractor shall notify VERIZON at least seventy-two (72) hours prior to the start of construction by contacting Mr. Michael Fitzpatrick at (718) 977-8142.

#### (3) TIME WARNER CABLE OF NEW YORK CITY

There are TIME WARNER CABLE facilities in the area of construction. The Contractor shall notify TIME WARNER CABLE at least seventy-two (72) hours prior to the start of construction by contacting Mr. Mark Larm at (917) 335-9181.

#### (4) NATIONAL GRID

There are NATIONAL GRID facilities in the area of construction. The Contractor shall notify NATIONAL GRID at least seventy-two (72) hours prior to the start of construction by contacting Mr. Neville Jacobs Jr. at (718) 963-5612.

# (3) Refer to Subsection 1.06.20 - Contractor To Notify City Departments, Page I-12: Add the following to Subsection 1.06.20:

#### (1) N.Y.C. D.E.P., BUREAU OF WATER AND SEWERS OPERATIONS

The Contractor shall notify Mr. James Garin, P.E., Assistant Commissioner, Engineering at the Department of Environmental Protection, 59-17 Junction Blvd., 3rd floor low rise, Corona N.Y. 11368, at least thirty (30) days prior to the start of construction.

#### (2) NEW YORK CITY FIRE DEPARTMENT

The Contractor shall notify the Bureau of Fire Communications at least thirty (30) days prior to the start of construction by contacting Mr. Nick Varone at (718) 624-4194.

#### (3) N.Y.C. DEPARTMENT OF TRANSPORTATION

The Contractor shall notify Mr. Steve Galgano, P.E. Chief of Signal/Street Lighting Operations, 34-02 Queens Blvd., Long Island City, N.Y. 11101 at (718) 786-3550, at least seventy-two (72) hours prior to the start of construction.

#### (4) N.Y.C. DEPARTMENT OF PARKS AND RECREATION

The Contractor shall notify the Parks Department at least seventy-two (72) hours prior to the start of construction by contacting Mr. Shawn Maerz at (718) 966-4700.

#### (5) 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, 17<sup>th</sup> Floor
New York, N.Y. 10004
Telephone No. (646) 252-5517

#### sarah.wyss@nyct.com

PROJECT ID.: HWQ985

(4) Refer to Subsection 1.06.27 - Salvageable Materials, Page I-14:

<u>Delete</u> the paragraph starting with the words, "No salvageable material...", and ending with the words, "...from the site.", in its entirety:

**Substitute** the following:

Except as specified below, no salvageable material shall be returned to the New York City Department of Environmental Protection regardless of condition. It shall become the property of the Contractor for removal and disposal, by the Contractor, away from the site.

The Contractor shall salvage and deliver to a designated NYCDEP yard all Metropolitan Valves (6" thru 20") removed during construction of the contract.

- (5) Refer to Subsection 1.06.29 Contractor To Provide For Traffic, Page I-15: Add the following to Subsection 1.06.29:
  - (1) Traffic Stipulations:

The Contractor shall refer to Traffic Stipulations identified in the maintenance of traffic requirements under Highway Contract No. HWQ985.

(6) Refer to Section 1.08 - Miscellaneous Provisions, Page I-19:
Delete Subsection 1.08.2 - Vendors in its entirety:
Substitute the following new Subsection 1.08.2:

#### 1.08.2 **VENDORS**

Prior to starting work, the Contractor shall submit in writing to the Engineer the names of all vendors and manufacturers the Contractor intends to use. Unless otherwise specified in the contract documents or a written exception is granted by NYCDDC, the Contractor shall submit only one (1) vendor or manufacturer for each product that is to be incorporated in the contract. The use of multiple vendors or manufacturers to supply the same product will be prohibited, unless otherwise specified in the contract documents or a written exception is granted by NYCDDC. If the vendor or manufacturer is not approved, the Contractor will be notified to either submit another vendor or manufacturer, or have their proposed vendor or manufacturer submit a request for approval from NYCDDC. The Contractor will be prohibited from using the vendor or manufacturer until approval of the vendor or manufacturer has been acquired from NYCDDC.

(7) Refer to Section 1.08 - Miscellaneous Provisions, Page I-20: Add the following new Subsection 1.08.7:

#### 1.08.7 SUBMITTAL OF SCHEDULE LOG

The Contractor's attention is directed to **Article 9 - Progress Schedule** of the Contract. The Contractor shall submit along with the proposed progress schedule the following: A schedule log in Excel Format (tied to the proposed progress schedule) indicating a description of and the schedule submission dates for all required submittals, shop drawings, approval requests, design mixes, reports, samples, etc., as required by the specifications and the terms of the contract.

(8) Refer to Section 2.05 - Precast Reinforced Concrete Pipe, Subsection 2.05.4 - Materials, Workmanship And Finish, Page II-10:

Delete from Subsection 2.05.4, paragraph (A) CONCRETE in its entirety:

#### Substitute the following:

(A) CONCRETE - The Concrete shall comply with the requirements of **General Specification 11 - Concrete, as modified in Section 2.15**, and be a homogeneous mixture of such proportions and quality that the pipe will conform to the design and test requirements of these specifications.

- (9) <u>Refer</u> to Section 2.15 Concrete, Subsection 2.15.3 Modifications, Page II-23: <u>Delete</u> from <u>Subsection 2.15.3</u>, <u>Reference Number D 3.2.1</u> together with its paragraphs in their entirety: <u>Substitute</u> the following:
  - D 3.2.1 DELETE 3.2.1 to 3.2.9 of GS11 and SUBSTITUTE the following:

All concrete mix designs shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the preconstruction meeting or from the Engineer. Before the Contractor begins to manufacture concrete, the Contractor shall secure DDC's QACS approval of the mix design the Contractor proposes to use.

The Contractor shall submit for this purpose a statement, in writing, of the sources of all ingredient materials, the type and brand of the cement and the number of pounds of each of the materials in a saturated surface-dry condition making up one (1) cubic yard of concrete. The range of water-cement ratios within which the concrete will be manufactured and the method of mixing to be employed shall also be stated. The mix design submittal shall include gradation of aggregates, specific gravities of ingredients, unit weight, mix proportion for each batch (a minimum of four (4) batches except in case of precast plants where one specific mix may be proposed), compressive strength test results for each mix at 7-days, 28-days (high-early strength mixes may require 6-hours, 24-hours, 3-days and shrinkage test as per the requirements), and graphical representation of strength vs. W/C projected in hours/days.

The Contractor may submit for approval concrete mixes that (within one (1) year of the contract) have been previously approved and used on other jobs with any Bureau of the Department of Environmental Protection or the Department of Design and Construction. Such submittals shall contain evidence that the concrete mix was approved within one (1) year of this contract and shall show that the concrete will be produced at the same mix plant, that the cement and admixtures are the same type (though not necessarily the same brand), that the water/cement ratio is the same and that adjustments have been made in the mix for air content, specific gravity and gradation of the aggregates.

If the Contractor elects to submit a concrete mix that was not previously approved, the Contractor shall submit the new concrete mix in accordance with Chapters 2 and 3 of General Specification 11 as modified herein.

(10)<u>Refer</u> to Section 2.15 - Concrete, Subsection 2.15.3 - Modifications, Page II-26: <u>Add</u> to Subsection 2.15.3, before Reference Number D 8.2 the following:

D 7.3.3 ADD the following to Subsection 7.3.3 of GS11:

Each Portland cement concrete batching plant shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the preconstruction meeting or from the Engineer. The minimum requirement for approval is that the proposed Portland cement concrete

batching plant must be on the New York State Department of Transportation (NYSDOT) approved list for the current construction season.

The minimum requirement for approval of a precast concrete plant is that the proposed plant must be on the NYSDOT approved list. A waiver for this requirement may be granted by the DDC's Quality Assurance and Construction Safety (QACS) Director for special products that no NYSDOT approved plant is capable of producing.

Each Portland cement concrete batching plant shall also be subject to auditing and approval of the DDC's Director of Quality Assurance and Construction Safety (QACS). The Director of QACS may at any time discontinue the use of any previously approved equipment if nonconformance with the specifications results during the progress of the work. When the Director of QACS discontinues the use of the plant, production will not be acceptable for Department work until corrective measures satisfactory to the Director are carried out.

#### (11) Refer to Section 2.15 - Concrete, Subsection 2.15.3 - Modifications, Page II-26:

<u>Delete</u> from <u>Subsection 2.15.3</u>, <u>Reference Number D 16.3</u> together with its paragraphs in their entirety:

Substitute the following:

#### D 16.3 Testing Service - ADD the following:

The Contractor shall retain the services of an independent testing laboratory to provide for the services outlined in 16.3.1.4 to 16.3.1.11 of GS11, with the exception of those tests specified herein to be performed by the Engineer and the City Retained Laboratory.

All laboratories shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the preconstruction meeting or from the Engineer. The minimum requirement for approval is that the laboratory must have the current AMRL/AASHTO R-18 accreditation in the category of service proposed and must be currently licensed by the NYC Department of Buildings (DOB).

#### (12)Refer to Section 2.15 - Concrete, Subsection 2.15.3 - Modifications, Page II-26:

<u>Delete</u> from **Subsection 2.15.3**, **Reference Number D 16.8** together with its paragraphs in their entirety:

Substitute the following:

#### D 16.8 Responsibilities and Duties of Contractor - ADD the following:

The Contractor may, if the Contractor so desires, take cylinders corresponding to those taken by the Engineer for the City Retained Laboratory. However, determination of payment will be based solely on the cylinders taken by the Engineer for the City Retained Laboratory.

#### **CONCRETE TEST CYLINDERS**

The Contractor will be responsible for safe delivery of concrete cylinders to the Department of Design and Construction Laboratory, within two (2) days after molding, where they will be properly stored and cured until the date of test, and tested by others, upon removal from the curing room. The Department of Design and Construction testing laboratory will provide the services for the curing and breaking of the test cylinders.

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The Contractor shall provide empty cylinder molds and facilities for the proper care of these cylinders while on the site, and shall safeguard them against injury and protect them from the elements.

The Engineer will be responsible for the preparation, documentation and labeling of the cylinders and for notifying the Contractor, at least twenty-four (24) hours in advance, when a shipment of cylinders is ready for delivery, so that cylinders can be tested for the standard twenty-eight (28) day and seven (7) day tests. Cylinders are to be delivered by the Contractor to a designated area near 30-30 Thomson Avenue, Long Island City, New York, or where otherwise directed within the City of New York.

The Contractor shall make arrangements to protect all cylinders from damage during loading, transport to, and unloading at a Department of Design and Construction designated testing laboratory, and shall obtain a receipt for delivered cylinders, which shall be submitted to the Engineer.

## (13)<u>Refer</u> to Section 4.06 - Backfilling, Subsection 4.06.3 - Method Of Depositing All Backfill, Page IV-18:

#### (A) Add the following paragraph to beginning of Subsection 4.06.3:

At the preconstruction meeting, the Contractor shall submit for approval a full description of the Contractor's proposed methods to be used for all backfilling operations including, but not limited to, equipment, backfill material, depth of compaction layers, and trench locations where each is to be employed. In the field, the Contractor shall be required to demonstrate that the Contractor's methods of backfilling and compaction shall obtain a minimum of ninety-five (95) percent of Standard Proctor Maximum Dry Density.

# **(B)** <u>Delete</u> from **Subsection 4.06.3**, the fourth paragraph in its entirety: <u>Substitute</u> the following:

Unless otherwise approved in writing by the Engineer, backfilling of the remainder of the trenches and excavations from a point not less than two (2) feet above the top of the sewer conduit (i.e. sewer pipes on cradles or encasements, reinforced concrete sewers, basin and house connections, culverts, etc.) to the underside of the pavement shall be progressively deposited in uniform and successive horizontal layers not exceeding twelve (12) inches in depth for the entire width of the trench or excavation and each successive layer shall be solidly compacted by mechanical tamping or other approved means so as to achieve the required density. In deep trenches defined as those requiring sheeting, the Contractor may submit to the Engineer, for approval, an alternate backfill method (i.e. jetting, deeper deposited layers not exceeding twenty-four (24) inches, etc.) for depositing and compacting the backfill from two (2) feet above the top of the sewer conduit to a plane five (5) feet below final surface elevation. However, approval of any alternate backfill method shall not relieve the Contractor from obtaining a minimum of ninety-five (95) percent of Standard Proctor Maximum Dry Density. Should the Engineer determine that the specified density is not being obtained, the area must be re-excavated and backfilled at the Contractor's own cost until the required compaction density is achieved.

# **(C)** <u>Delete</u> from Subsection 4.06.3, the seventh paragraph in its entirety: <u>Substitute</u> the following:

Backfill shall proceed simultaneously with the withdrawal of sheeting but at no time shall the withdrawal of sheeting exceed a height of six (6) inches above the deposited backfill. Withdrawal of sheeting below levels previously backfilled and compacted is prohibited.

(14)<u>Refer</u> to Section 5.01 - Reinforced Concrete Sewers, Subsection 5.01.4 - Precast Reinforced Concrete Sewer, Paragraph (C) - Details, second paragraph, first line, Page V-4:

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Change the words "C789 or C850 (as required)", to "C1433":

(15)Refer to Section 5.05C - Reconstruction Of Existing Sewers Using D.E.P. Approved Cured-In-Place-Pipe (CIPP) Lining Method, Subsection 5.05C.6 - Separate Payment, third paragraph, second line, Page V-49 Change the word, "nine", to "eleven":

- (16) Refer to Section 5.11 Outfall Structures, Subsection 5.11.2 Materials, Page V-95: **Delete** from **Subsection 5.11.2**, paragraph (A) in its entirety: Substitute the following:
  - (A) Concrete used for outfall structure (including headwalls, reinforced concrete sewer outfalls, cradles and encasements, chambers, manholes and catch basins) shall comply with the requirements of General Specification 11 - Concrete, as modified in Section 2.15; and, shall contain entrained air of six percent (6%), and a corrosion inhibitor. The corrosion inhibitor shall consist of a calcium nitrite solution, containing 30 ±2% calcium nitrite solids by weight and having a specific gravity of 1.27 ±0.02. The corrosion inhibitor when used in the manufacturing process shall not produce a significant amount of chloride ions in the final product (less than 1,000-ppm). The ph shall be greater than 8. The admixture shall not contain chemicals that produce a condition injurious to the quality and durability of the concrete or reinforcing steel. Calcium nitrite, which acts as an accelerator, may be used in conjunction with compatible retarding admixtures to control setting time and workability of the concrete, consult the manufacturer of the product. The corrosion inhibitor must be added to the mix immediately after air entraining and retarding admixtures have been introduced into the batch. Acceptance of calcium nitrite based corrosion inhibitor shall be based upon it being listed in the most current New York State Department of Transportation's "Approved List Of Calcium Nitrite Based Corrosion Inhibitors".
- (17) Refer to Section 5.11 Outfall Structures, Subsection 5.11.4 Price To Cover, Page V-96: **Delete** from **Subsection 5.11.4**, all three paragraphs in their entirety: Substitute the following:

The contract price for "OUTFALLS" shall be the unit price bid for each outfall structure as specified in Addendum No. 4 of this Project, Subsection 51.61 F.4 - PRICE TO COVER.

(18) Refer to Section 5.11 - Outfall Structures, Subsection 5.11.5 - Separate Payment, Page V-96: **Delete** from **Subsection 5.11.5**, the first and second paragraphs in their entirety: Substitute the following:

(NO TEXT)

(19) Refer to Section 5.18A - Sewer Cleaning, Subsection 5.18A.3 - Disposal, Page V-124: **Delete** from **Subsection 5.18A.3**, the first paragraph in its entirety: Substitute the following:

All material removed from the sewers and sewer portions through the manholes under this contract shall become the property of the Contractor and shall be properly disposed of away from the site, at the Contractor's expense.

(20) Refer to Section 5.23 - Decking, Subsection 5.23.1 - Description, Page V-161: Delete from Subsection 5.23.1, the third paragraph in its entirety: Substitute the following:

Steel plates that are resting on pavement, that are not part of a decking system, and are used to temporarily span trenches and excavations for vehicular traffic and for pedestrian crossings and walkways shall not be included for payment under this decking section. The cost of all labor, materials, equipment, insurance and incidentals necessary to furnish, place, anchor and ramp these temporary steel plates, when and where directed, in order to comply with the requirements of the NYCDOT Office of Construction Mitigation and Coordination (OCMC) traffic stipulations, the directions of the Engineer, and the Contractor's construction operations shall be deemed included in the prices bid for all contract items of work.

- (21)<u>Refer</u> to Section 5.23 Decking, Subsection 5.23.4 Design Criteria, Page V-162: <u>Add</u> the following to Subsection 5.23.4:
  - (C) The Contractor may substitute skid resistant steel plates (Non-Skid Textured Plates) for timber mats, subject to approval in accordance with **Subsection 4.05.5**. These steel plates shall be placed flush with the existing roadway and shall be installed in compliance with the requirements of **Subsection 4.05.6(G)**.
- (22)<u>Refer</u> to Subsection 5.32.4 Specific Pavement Restoration Provisions, Page V-185: <u>Add</u> the following to Subsection 5.32.4:
  - (E) Specific Pavement Restoration Provisions:
    - (1) Within the limits of the highway rehabilitation the restoration shall be accomplished and paid for in accordance with Highway Construction Plans, Details and Specifications for Highway Project ID. HWQ985.
- (23)<u>Refer</u> to Section 5.36 Additional Earth Excavation Including Test Pits, Subsection 5.36.4 Price To Cover, Paragraph (3), fifth line, Page V-195: Change 16", to 16'.

#### D. AMENDMENTS TO THE STANDARD WATER MAIN SPECIFICATIONS

(1) Refer to Subsection 1.06.3 - Hours Of Work, Page I-4:
Add the following to Subsection 1.06.3:

(A) <u>HOLIDAY CONSTRUCTION EMBARGO</u> - A special Holiday Construction Embargo shall 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 (13) 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 <u>are not</u> 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: <a href="http://www.nyc.gov/html/dot/html/motorist/trafalrt.shtml">http://www.nyc.gov/html/dot/html/motorist/trafalrt.shtml</a>

(2) Refer to Subsection 1.06.27 - Salvageable Materials, Page I-14:

<u>Delete</u> the paragraph starting with the words, "No salvageable material...", and ending with the words, "...from the site.", in its entirety:

**Substitute** the following:

Except as specified below, no salvageable material shall be returned to the New York City Department of Environmental Protection regardless of condition. It shall become the property of the Contractor for removal and disposal, by the Contractor, away from the site.

The Contractor shall salvage and deliver to a designated NYCDEP yard all Metropolitan Valves (6" thru 20") removed during construction of the contract.

(3) <u>Refer</u> to Standard Water Main Specifications (August 1, 2009), **Subsection 1.06.29 - Contractor To Provide For Traffic**, Page I-15:

Add the following to Subsection 1.06.29:

See amended Standard Sewer Specifications (August 1, 2009) **Subsection 1.06.29 - Contractor To Provide For Traffic** of this addendum.

(4) Refer to Section 1.08 - Miscellaneous Provisions, Page I-19:

Delete Subsection 1.08.2 - Vendors in its entirety:

Substitute the following new Subsection 1.08.2:

#### 1.08.2 **VENDORS**

Prior to starting work, the Contractor shall submit in writing to the Engineer the names of all vendors and manufacturers the Contractor intends to use. Unless otherwise specified in the contract documents or a written exception is granted by NYCDDC, the Contractor shall submit only one (1) vendor or manufacturer for each product that is to be incorporated in the contract. The use of multiple vendors or manufacturers to supply the same product will be prohibited, unless otherwise specified in the contract documents or a written exception is granted by NYCDDC. If the vendor or manufacturer is not approved, the Contractor will be notified to either submit another vendor or manufacturer, or have their proposed vendor or manufacturer submit a request for approval from NYCDDC. The Contractor will be prohibited from using the vendor or manufacturer until approval of the vendor or manufacturer has been acquired from NYCDDC.

(5) Refer to Section 1.08 - Miscellaneous Provisions, Page I-20: Add the following new Subsection 1.08.7:

#### 1.08.7 SUBMITTAL OF SCHEDULE LOG

The Contractor's attention is directed to **Article 9 - Progress Schedule** of the Contract. The Contractor shall submit along with the proposed progress schedule the following: A schedule log in Excel Format (tied to the proposed progress schedule) indicating a description of and the schedule submission dates for all required submittals, shop drawings, approval requests, design mixes, reports, samples, etc., as required by the specifications and the terms of the contract.

(6) <u>Refer</u> to Section 2.15 - Concrete, Subsection 2.15.3 - Modifications, Page II-11: <u>Delete</u> from <u>Subsection 2.15.3</u>, <u>Reference Number D 3.2.1</u> together with its paragraphs in their entirety: <u>Substitute</u> the following:

#### D 3.2.1 DELETE 3.2.1 to 3.2.9 of GS11 and SUBSTITUTE the following:

All concrete mix designs shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the preconstruction meeting or from the Engineer. Before the Contractor begins to manufacture concrete, the Contractor shall secure DDC's QACS approval of the mix design the Contractor proposes to use.

The Contractor shall submit for this purpose a statement, in writing, of the sources of all ingredient materials, the type and brand of the cement and the number of pounds of each of the materials in a saturated surface-dry condition making up one (1) cubic yard of concrete. The range of water-cement ratios within which the concrete will be

manufactured and the method of mixing to be employed shall also be stated. The mix design submittal shall include gradation of aggregates, specific gravities of ingredients, unit weight, mix proportion for each batch (a minimum of four (4) batches except in case of precast plants where one specific mix may be proposed), compressive strength test results for each mix at 7-days, 28-days (high-early strength mixes may require 6-hours, 24-hours, 3-days and shrinkage test as per the requirements), and graphical representation of strength vs. W/C projected in hours/days.

The Contractor may submit for approval concrete mixes that (within one (1) year of the contract) have been previously approved and used on other jobs with any Bureau of the Department of Environmental Protection or the Department of Design and Construction. Such submittals shall contain evidence that the concrete mix was approved within one (1) year of this contract and shall show that the concrete will be produced at the same mix plant, that the cement and admixtures are the same type (though not necessarily the same brand), that the water/cement ratio is the same and that adjustments have been made in the mix for air content, specific gravity and gradation of the aggregates.

If the Contractor elects to submit a concrete mix that was not previously approved, the Contractor shall submit the new concrete mix in accordance with Chapters 2 and 3 of General Specification 11 as modified herein.

- (7) Refer to Section 2.15 Concrete, Subsection 2.15.3 Modifications, Page II-13: Add to Subsection 2.15.3, before Reference Number D 8.2 the following:
  - D 7.3.3 ADD the following to Subsection 7.3.3 of GS11:

Each Portland cement concrete batching plant shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the preconstruction meeting or from the Engineer. The minimum requirement for approval is that the proposed Portland cement concrete batching plant must be on the New York State Department of Transportation (NYSDOT) approved list for the current construction season.

The minimum requirement for approval of a precast concrete plant is that the proposed plant must be on the NYSDOT approved list. A waiver for this requirement may be granted by the DDC's Quality Assurance and Construction Safety (QACS) Director for special products that no NYSDOT approved plant is capable of producing.

Each Portland cement concrete batching plant shall also be subject to auditing and approval of the DDC's Director of Quality Assurance and Construction Safety (QACS). The Director of QACS may at any time discontinue the use of any previously approved equipment if nonconformance with the specifications results during the progress of the work. When the Director of QACS discontinues the use of the plant, production will not be acceptable for Department work until corrective measures satisfactory to the Director are carried out.

(8) Refer to Section 2.15 - Concrete, Subsection 2.15.3 - Modifications, Page II-14:
<u>Delete</u> from Subsection 2.15.3, Reference Number D 16.3 together with its paragraphs in their entirety:

Substitute the following:

D 16.3 Testing Service - ADD the following:

The Contractor shall retain the services of an independent testing laboratory to provide for the services outlined in 16.3.1.4 to 16.3.1.11 of GS11, with the exception of those tests specified herein to be performed by the Engineer and the City Retained Laboratory.

All laboratories shall be subject to approval by DDC's Quality Assurance and Construction Safety (QACS) Bureau and in accordance with their "MIX DESIGN, LABORATORY AND PLANT APPROVAL PROTOCOL". Copies of this protocol may be obtained at the preconstruction meeting or from the Engineer. The minimum requirement for approval is that the laboratory must have the current AMRL/AASHTO R-18 accreditation in the category of service proposed and must be currently licensed by the NYC Department of Buildings (DOB).

(9) Refer to Section 2.15 - Concrete, Subsection 2.15.3 - Modifications, Page II-14:

<u>Delete</u> from <u>Subsection 2.15.3</u>, <u>Reference Number D 16.8</u> together with its paragraphs in their entirety:

Substitute the following:

D 16.8 Responsibilities and Duties of Contractor - ADD the following:

The Contractor may, if the Contractor so desires, take cylinders corresponding to those taken by the Engineer for the City Retained Laboratory. However, determination of payment will be based solely on the cylinders taken by the Engineer for the City Retained Laboratory.

### **CONCRETE TEST CYLINDERS**

The Contractor will be responsible for safe delivery of concrete cylinders to the Department of Design and Construction Laboratory, within two (2) days after molding, where they will be properly stored and cured until the date of test, and tested by others, upon removal from the curing room. The Department of Design and Construction testing laboratory will provide the services for the curing and breaking of the test cylinders.

The Contractor shall provide empty cylinder molds and facilities for the proper care of these cylinders while on the site, and shall safeguard them against injury and protect them from the elements.

The Engineer will be responsible for the preparation, documentation and labeling of the cylinders and for notifying the Contractor, at least twenty-four (24) hours in advance, when a shipment of cylinders is ready for delivery, so that cylinders can be tested for the standard twenty-eight (28) day and seven (7) day tests. Cylinders are to be delivered by the Contractor to a designated area near 30-30 Thomson Avenue, Long Island City, New York, or where otherwise directed within the City of New York.

The Contractor shall make arrangements to protect all cylinders from damage during loading, transport to, and unloading at a Department of Design and Construction designated testing laboratory, and shall obtain a receipt for delivered cylinders, which shall be submitted to the Engineer.

(10)<u>Refer</u> to Section 4.06 - Backfilling, Subsection 4.06.3 - Method Of Depositing All Backfill, Page IV-18:

(A) Add the following paragraph to beginning of Subsection 4.06.3:

At the preconstruction meeting, the Contractor shall submit for approval a full description of the Contractor's proposed methods to be used for all backfilling operations including, but not limited to, equipment, backfill material, depth of compaction layers, and trench locations where each is to be

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employed. In the field, the Contractor shall be required to demonstrate that the Contractor's methods of backfilling and compaction shall obtain a minimum of ninety-five (95) percent of Standard Proctor Maximum Dry Density.

**(B)** <u>Delete</u> from **Subsection 4.06.3**, the fourth paragraph in its entirety: <u>Substitute</u> the following:

Unless otherwise approved in writing by the Engineer, backfilling of the remainder of the trenches and excavations from a point not less than twelve (12) inches above the top of the barrel of the water main pipe to the underside of the pavement shall be progressively deposited in uniform and successive horizontal layers not exceeding twelve (12) inches in depth for the entire width of the trench or excavation and each successive layer shall be solidly compacted by mechanical tamping or other approved means so as to achieve the required density. In deep trenches defined as those requiring sheeting, the Contractor may submit to the Engineer, for approval, an alternate backfill method (i.e. jetting, deeper deposited layers not exceeding twenty-four (24) inches, etc.) for depositing and compacting the backfill from twelve (12) inches above the top of the barrel of the water main pipe to a plane five (5) feet below final surface elevation. However, approval of any alternate backfill method shall not relieve the Contractor from obtaining a minimum of ninety-five (95) percent of Standard Proctor Maximum Dry Density. Should the Engineer determine that the specified density is not being obtained, the area must be re-excavated and backfilled at the Contractor's own cost until the required compaction density is achieved.

**(C)** <u>Delete</u> from **Subsection 4.06.3**, the seventh paragraph in its entirety: <u>Substitute</u> the following:

Backfill shall proceed simultaneously with the withdrawal of sheeting but at no time shall the withdrawal of sheeting exceed a height of six (6) inches above the deposited backfill. Withdrawal of sheeting below levels previously backfilled and compacted is prohibited.

(11)<u>Refer</u> to Section 5.02 - Laying Ductile Iron Pipe And Fittings, Subsection 5.02.3(F) - Bedding And Foundation Of Pipes, Page V-8:

<u>Delete</u> from **Subsection 5.02.3(F)**, Paragraph (5) - Pier And Plate, in its entirety: **Substitute** the following new Paragraph (5):

(5) Shallow Cover: Where mains 24-inches and smaller are laid with covers of 2'-0" or less, the Contractor shall provide protection in accordance with Standard Drawing No. 42063-Y or as directed by the Engineer.

Where mains 24-inches and smaller are laid with covers between 2'-6" and 2'-0", the Contractor shall provide steel plates only over the main with dimensions as shown on **Standard Drawing No. 46464-Z** or as directed by the Engineer.

Where mains 30-inches and larger are laid with covers of 2'-6" or less, the Contractor shall provide protection in accordance with **Standard Drawing No. 46464-Z** or as directed by the Engineer.

Covers over the new mains shall not be less than 1'-6".

(12)<u>Refer</u> to Section 5.02 - Laying Ductile Iron Pipe And Fittings, Subsection 5.02.3 - Construction Methods, Paragraph (M) - Laying Temporary Connections, Page V-12:

**Delete Paragraph (M)**, in its entirety:

**Substitute** the following:

(M) LAYING TEMPORARY CONNECTIONS AND INSTALLING TEMPORARY CAP ASSEMBLIES AND/OR BULKHEADS

(1) When new water mains are laid and it becomes necessary to provide a temporary connection between the existing main and new mains laid under this contract (regardless of whether the new and existing water mains are in the same trench or are offset in two different trenches), the Contractor shall, if ordered, provide all labor, equipment and facilities for laying, maintaining and removing when directed, temporary connections and appurtenances. If City forces do laying of temporary connections, the Contractor shall make all required equipment and facilities available to them. No payment will be made for providing temporary house services which may be required when making a temporary connection between the existing and new main.

- (2) (a) Temporary cap assemblies on distribution water mains (20" and less in diameter) shall consist of a 2-foot long spigot/spigot ductile iron pipe with a mechanical joint cap restrained to the pipe with a "wedge-type" retainer gland and a minimum 2-inch tap on the pipe section.
  - (b) Temporary cap assemblies on distribution water mains (20" and less in diameter) shall be restrained and braced in a manner sufficient to support system working pressures, and thrust forces.
  - (c) The 2-inch tap required as part of the temporary cap assembly is to be utilized to allow air to escape while filling the main in addition to allow for proper flushing of the main.
  - (d) Restraint and bracing as well as temporary cap assemblies/bulkheads for water mains greater than 20" in diameter shall be submitted for approval by the Engineer prior to being utilized.
- (13)<u>Refer</u> to Section 5.02 Laying Ductile Iron Pipe And Fittings, Subsection 5.02.5 Price To Cover, Paragraph (10), Page V-16:

**Delete Paragraph (10)**, in its entirety:

**Substitute** the following:

- (10)(a) No separate or additional payment will be made to the Contractor for furnishing, delivering, installing, restraining, bracing and removing temporary cap assemblies/bulkheads for water mains as ordered by the Engineer. The costs thereof shall be deemed included in the unit prices bid for all items of the contract.
  - (b) Payment for temporary valves (i.e. construction valves) and its associated fittings ordered by the Engineer during the course of the work to be installed will be paid for at the same rates as for valves and fittings permanently installed.
  - (c) If ordered by the Engineer, removal of valves (i.e. construction valves) and its associated fittings, including their transfer and disposal shall be deemed included in the prices bid for all items of the contract. No separate or additional payment will be made for this work.
  - (d) Payment For Temporary Connections: When new mains are laid and it becomes necessary to provide a temporary connection between the existing and new mains the following method of payment shall apply: The Contractor shall be paid once for furnishing and delivering pipes and fittings used in temporary connections. The Contractor shall also be paid for laying the temporary pipe connection and fitting using the appropriate pipe laying item for each time that the Contractor is directed to use them throughout the project as directed by the Engineer.
- (14)<u>Refer</u> to Subsection 5.04.4 Furnishing, Delivering And Installing Steel Tee, Paragraph (5), Item Numbers list, Page V-23:

<u>Delete</u> Item No. "60.23ST20T48", together with Description "FURNISHING, DELIVERING AND INSTALLING 48-INCH X 20-INCH STEEL TEE", and Pay Unit "EACH":

(15)Refer to Section 5.05 - Furnishing And Delivering Gate Valves, Page V-35:

ADDENDUM NO. 2 PROJECT ID.: HWQ985

**(A)** <u>Delete</u> from **Subsection 5.05.1 - Description**, the first paragraph in its entirety: <u>Substitute</u> the following:

This specification describes furnishing and delivering of double disc 3-inch to 20-inch gate valves, resilient seated 3-inch to 20-inch gate valves and resilient seated 3-inch to 12-inch tapping valves.

Unless otherwise specified in the contract documents or ordered in writing by the Engineer, only resilient seated gate valves and tapping valves shall be furnished and delivered by the Contractor on the contract.

(B) <u>Delete</u> from **Subsection 5.05.2 - Materials**, second paragraph, first line, the words, "6-inch hydrant":

Substitute the following words, "3-inch to 20-inch":

### (16) Refer to Section 5.06 - Setting Gate Valves, Page V-38:

**(A)** <u>Delete</u> from **Subsection 5.06.1 - Description**, the first paragraph in its entirety: <u>Substitute</u> the following:

This specification describes the installation of double disc 3-inch to 20-inch gate valves, resilient seated 3-inch to 20-inch gate valves and resilient seated 3-inch to 12-inch tapping valves. It also describes the installing of manhole frames (skirts and heads) and covers.

Unless otherwise specified in the contract documents or ordered in writing by the Engineer, only resilient seated gate valves and tapping valves shall be installed by the Contractor on the contract.

**(B)** <u>Delete</u> from **Subsection 5.06.2 - Materials**, second paragraph, first line, the words, "6-inch hydrant":

Substitute the following words, "3-inch to 20-inch":

(17) Refer to Section 5.23 - Decking, Subsection 5.23.1 - Description, Page V-73:

<u>Delete</u> from **Subsection 5.23.1**, the third paragraph in its entirety: **Substitute** the following:

oubstitute the following.

Steel plates that are resting on pavement, that are not part of a decking system, and are used to temporarily span trenches and excavations for vehicular traffic and for pedestrian crossings and walkways shall not be included for payment under this decking section. The cost of all labor, materials, equipment, insurance and incidentals necessary to furnish, place, anchor and ramp these temporary steel plates, when and where directed, in order to comply with the requirements of the NYCDOT Office of Construction Mitigation and Coordination (OCMC) traffic stipulations, the directions of the Engineer, and the Contractor's construction operations shall be deemed included in the prices bid for all contract items of work.

- (18)<u>Refer</u> to Section 5.23 Decking, Subsection 5.23.4 Design Criteria, Page V-74:

  <u>Add</u> the following to Subsection 5.23.4:
  - (C) The Contractor may substitute skid resistant steel plates (Non-Skid Textured Plates) for timber mats, subject to approval in accordance with **Subsection 4.05.5**. These steel plates shall be placed flush with the existing roadway and shall be installed in compliance with the requirements of **Subsection 4.05.6(G)**.
- (19)<u>Refer</u> to Standard Water Main Specifications (August 1, 2009), **Section 5.32 Final Restoration Of Pavements**, Page V-99:

Add the following to Subsection 5.32.4 - Specific Pavement Restoration Provisions:

See amended Standard Sewer Specifications (August 1, 2009) **Subsection 5.32.4 - Specific Pavement Restoration Provisions** of this addendum.

(20)Refer to Section 5.36 - Additional Earth Excavation Including Test Pits, Subsection 5.36.4 - Price To Cover, Paragraph (3), fifth line, Page V-114:

<u>Change</u> 16", to 16'.

END OF ADDENDUM NO. 2 This Addendum consists of twenty (20) pages.

### ATTACH TO CONTRACT DOCUMENTS

## THE CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION INFRASTRUCTURE DIVISION BUREAU OF DESIGN

**ROADWAY IMPROVEMENTS IN** 

**SHORE ROAD** 

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto BOROUGH OF QUEENS CITY OF NEW YORK

ADDENDUM NO. 3

**DATED: March 23, 2009** 

This Addendum is issued for the purpose of amending the requirements of the Contract Documents and is hereby made part of said Contract Documents to the same extent as if it was originally included therein.

GAS COST SHARING (EP-7) STANDARD SPECIFICATIONS

### EP-7 GAS COST SHARING STANDARD SPECIFICATIONS

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### 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:

03/23/09

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 include bid items, specifications and estimated quantities designed to fully compensate him/her for the incremental costs of supporting, protecting, provide accommodations and, avoid 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 "<u>UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS</u>". When EP-7 bid item "<u>UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS</u>" 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. Overruns not paid by City shall be negotiated and paid to Contractor by gas facility operator who then shall 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".

### 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:

This item 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 "<u>UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS</u>" 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, of 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 coast 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. 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 excavation 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 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").

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 6.07 - 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. Sheeting shall be used when depth of excavation exceeds five (5) feet. The sheeting 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 sheeting has been placed, the Contractor shall remove portions of the sheeting, as necessary, enlarge the test pits as directed, and replace the sheeting 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 sheeting (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 direction of 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.

### 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

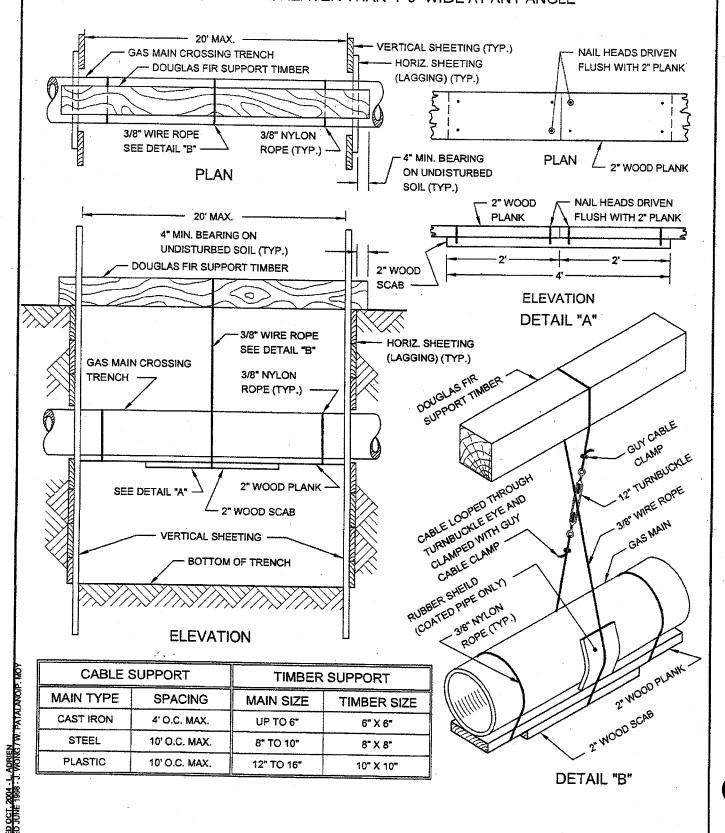
\$524.00 per Service/and Visit

### IV - STANDARD SKETCHES; GAS COST SHARING WORK

Hereinafter attached are the following Standard Sketches for Gas Cost Sharing Work:

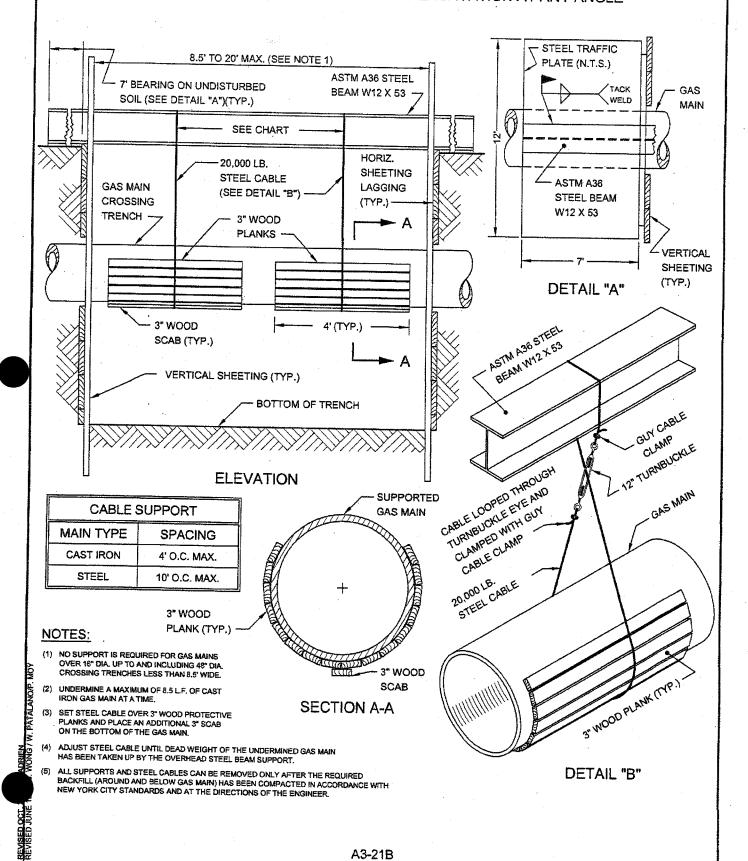
- Sketch No. 1 Support Requirements For Gas Mains And Services Crossing Excavation Greater Than 4' 0" Wide At Any Angle
- Sketch No. 1A Support Requirements For Gas Mains Over 16" Diameter Up To And Including 48" Diameter Crossing Excavation At Any Angle
- Sketch No. 2 Typical Methods Of Measurement 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 AND SERVICES CROSSING EXCAVATION GREATER THAN 4'-0" WIDE AT ANY ANGLE

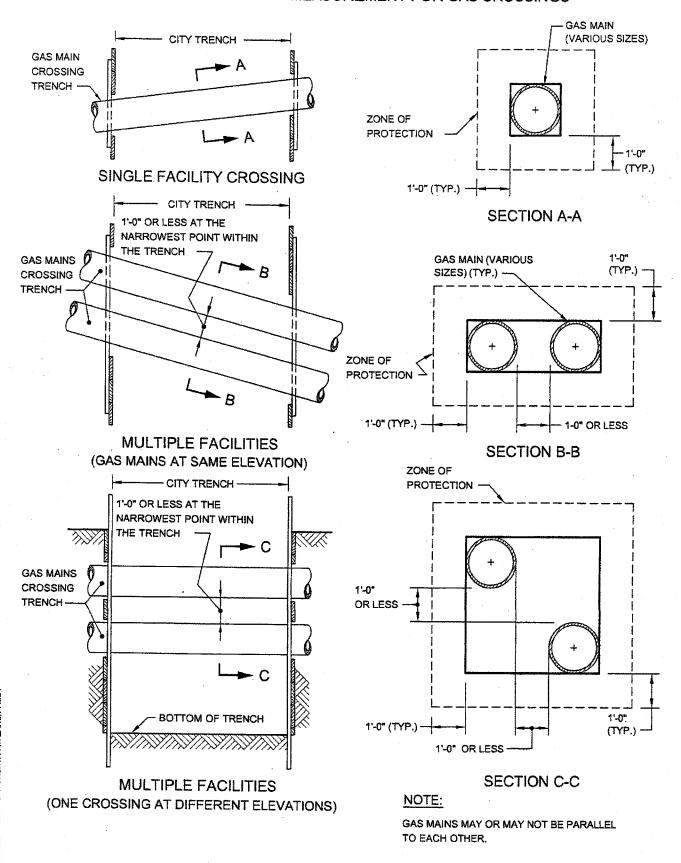


### GAS COST SHARING WORK (SKETCH NO. 1A)

SUPPORT REQUIREMENTS FOR GAS MAINS OVER 16" DIAMETER UP TO AND INCLUDING 48" DIAMETER CROSSING EXCAVATION AT ANY ANGLE

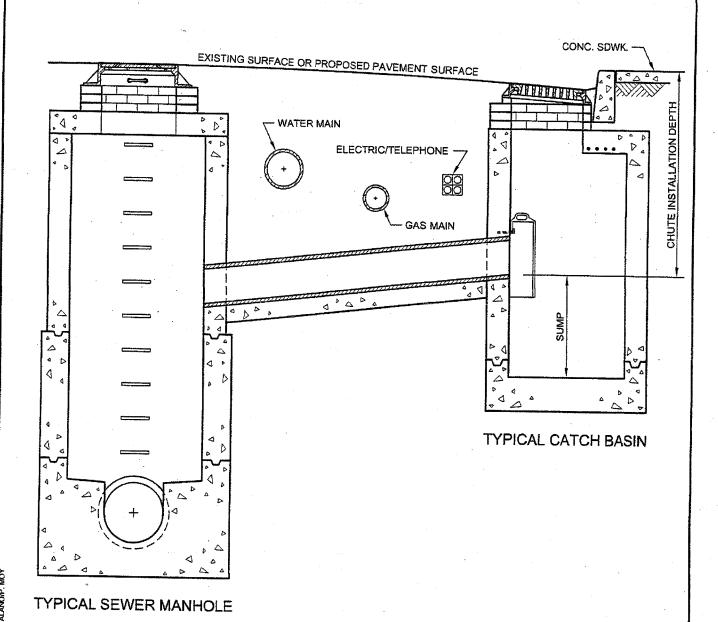


## GAS COST SHARING WORK (SKETCH NO. 2) TYPICAL METHODS OF MEASUREMENT FOR GAS CROSSINGS



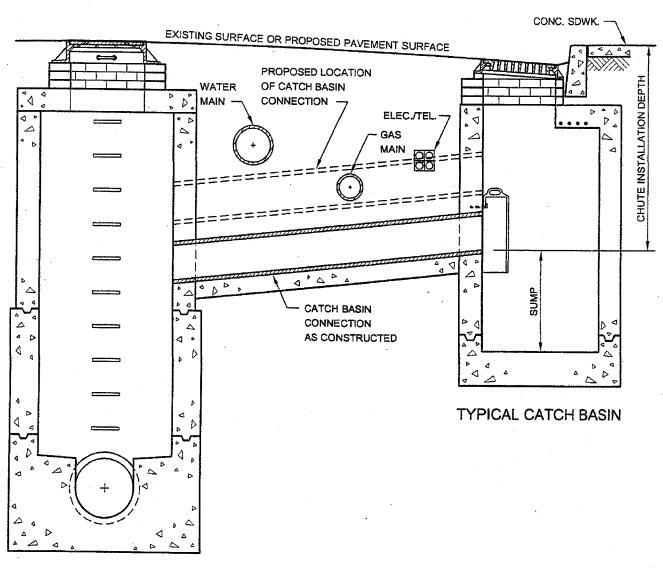
A3-21C

## GAS COST SHARING WORK (SKETCH NO. 3) UTILITY CROSSINGS DURING CATCH BASIN CHUTE CONNECTION PIPE INSTALLATION



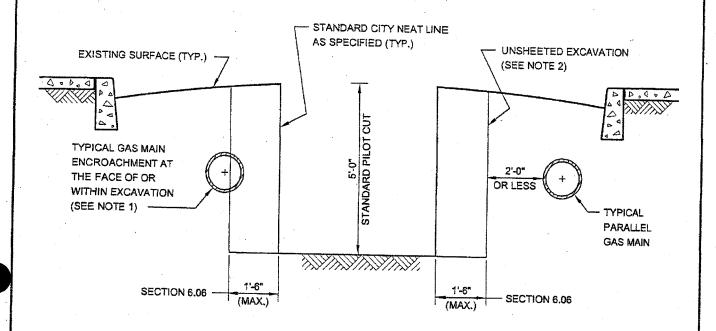
A3-21D

# GAS COST SHARING WORK (SKETCH NO. 4) UTILITY CROSSINGS DURING CATCH BASIN CHUTE CONNECTION PIPE INSTALLATION (EXTRA DEPTH)



TYPICAL SEWER MANHOLE

# 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 ADDENDUM IS TO BE PERFORMED BY FACILITY OPERATOR.
- ALL SUPPORT AND PROTECTION WORK TO BE PERFORMED BY CITY CONTRACTOR
- NO CAPITAL WORK IS ANTICIPATED AT THIS TIME.
- IF ADDITIONAL INFORMATION IS NEEDED REGARDING THE FACILITY OPERATOR RELOCATION WORK, THE CONTRACTOR IS ADVISED TO CONTACT THE GAS COMPANY REPRESENTATIVE:

MS, THERESA KONG CONSOLIDATED EDISON 4 IRVING PLACE, 17<sup>TH</sup> FLOOR NE NEW YORK, NY 10003 TEL.: 212-460-4834

(NO TEXT IN THIS AREA, TURN PAGE)

## 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 NUMBER HWQ-985

The City of New York Department of Design and Construction is planning 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.

- 6.01.1 Support & Protect Gas Main Crossing Sewer Up To 24" In Diameter (Ea.)
  2 in Shore Rd. @ Bayview Ave.
- 6.01.9 Support & Protect Gas Main Crossing Water Main Up To 20" In Diameter (Ea.)

  1 in Shore Rd. @ Bayview Ave.
- 6.02 Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Gas Interferences (Ea.)

2 in Various Locations As Required

- 6.04 Adjust Hardware To Grade Using Spacer Rings / Adaptor (Street Repaving) (Ea.)

  2 in Various Locations As Required
- 6.05 Adjust Hardware To Grade By Resetting (Road Reconstruction) (Ea.)
  5 in Various Locations As Required
- 6.06 Special Care Excavation & Backfilling (C.Y.)

50 CY In Various Locations As Required, Including But Not Limited To All Gas Services Crossing Unsheeted Water Main Trenches.

6.07 - Test Pits For Gas Facilities (C.Y.)

40 in Various Locations As Required.

END OF ADDENDUM NO. 3
This addendum consists of thirty (30) pages.

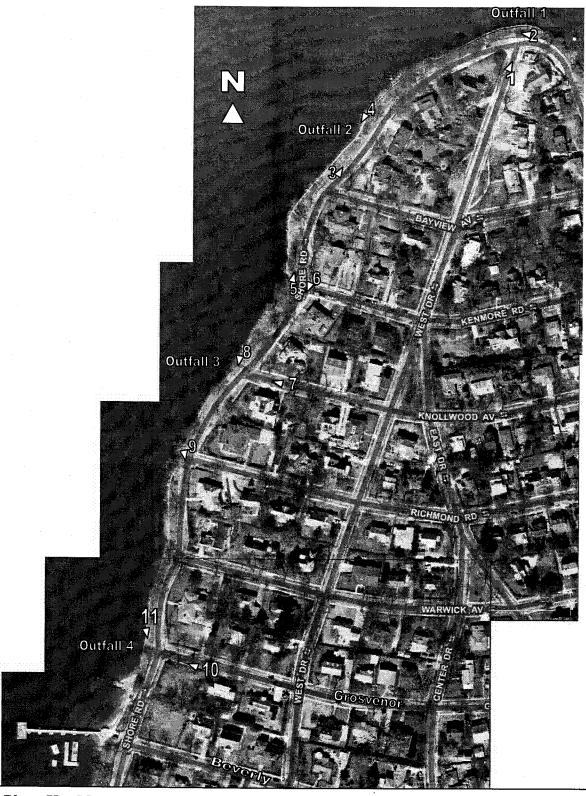


Photo Key Map 1 — Shore Road APE north of Beverly Road

Base map: 2008 Aerial photo (NYCityMap <a href="http://gis.nyc.gov/doitt/nycitymap/">http://gis.nyc.gov/doitt/nycitymap/</a>) Scale: 1 in. = 200 ft.



Photo 1. View north toward Shore Road from West Drive. Outfall No. 1 is beyond (north of) the guardrail.

Photo 2. Looking west toward proposed Outfall No. 1 location, north of the foot of West Drive. Note timber retaining wall and concrete foundation.



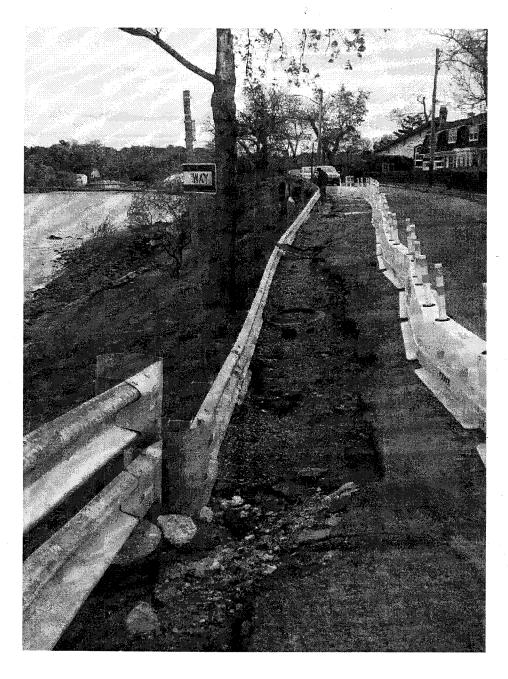
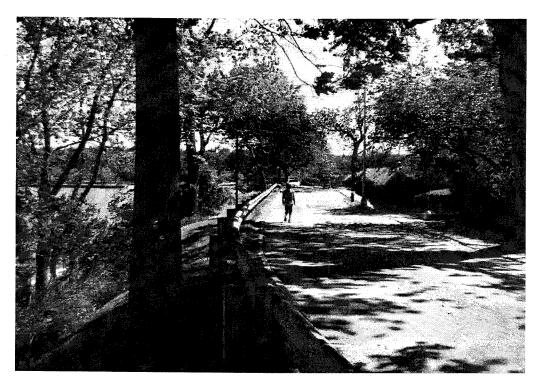


Photo 3. View of Shore Road Collapse No. 1 (between Bayview Avenue and West Drive) looking north from the north side of the Shore Road/Bayview intersection. The Outfall No. 2 location is to the left (west) of the guardrail.



Photo 4. View south from between West Drive and Bayview Avenue east of Shore Road, toward the Outfall No. 2 location.

Photo 5. Shore Road looking north from the north side of Kenmore Road



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

**APRIL 3, 2014** 

**ADDENDUM NO. 4** 

**PROJECT ID: HWQ985** 

## **ROAD IMPROVEMENTS IN**

#### SHORE ROAD

#### FROM 36TH AVENUE TO WEST DRIVE

## INCLUDING SEWER AND WATER MAIN WORK AND TRAFFIC SIGNALWORK

Together With All Work Incidental Thereto BOROUGH OF QUEENS CITY OF NEW YORK

SPECIFICATIONS FOR CONSTRUCTION OF BEST MANAGEMENT PRACTICES

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.

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#### <u>DIVISION VII - DETAILED SPECIFICATIONS</u> ROADWAY IMPROVEMENTS IN SHORE ROAD FROM 36<sup>th</sup> AVENUE TO WEST DRIVE

#### **CONTRACT HWQ-985**

#### **DIVISION VII**

#### **SPECIFIC PROVISIONS**

#### 7.01 <u>LOCATION OF WORK</u>

Work under this Contract is to be performed along Shore Road from 36<sup>th</sup> Avenue and West Drive to Shore Road and West Drive. The site is located in the Douglaston Historic District within the roadway limits which were determined by the City's Corporation Counsel Opinion (CCO), as well as five outfall easements and two embankment easements which will be acquired by the New York City Department of Design and Construction (NYCDDC). The work area includes two main repair areas on Shore Road between Hollywood Avenue and Manor Road, and on Shore Road at Bayview Avenue, both with easements extending into the embankment as shown on the Contract Drawings.

#### 7.02 <u>WORK INCLUDED</u>

The work under this Contract includes roadway improvements in Shore Road from 36<sup>th</sup> Avenue and West Drive to Shore Road and West Drive including roadway repair and curb reconstruction, sewer work, water main replacement, and pavement markings together with all work incidental thereto. The following descriptions of work included under this Contract are general descriptions only and shall not be construed as a complete description of the work to be performed.

#### A. The principal items of work include:

#### 1. Repair Areas

This entails excavation of the collapsed areas and roadway reconstruction with geogrid installed below the roadways surface as shown on the Contract Drawings. At the northern collapse, Bayview Avenue, sheet piles shall be driven as part of the road reconstruction.

#### 2. Storm Sewer Networks

a. Storm Sewer Network and Outfall Construction

This entails excavation of trenches and layout of storm sewer pipelines, including the outfalls. These measures include but are not limited to excavation, shoring, and dewatering (as necessary) of the storm sewer trench, installation of the storm sewers, manholes, catch basins, and other appurtenances as required by the field conditions, backfilling, and removal of material deemed by the Engineer as unsuitable.

All associated sewer materials and work shall be furnished as specified in NYCDEP Bureau of Water and Sewer Operations Standard Sewer Specifications, August 2009 or latest revision, and NYCDEP Bureau of Water and Sewer Operations Standard Design Standards, January 2009 or latest revision.

Specifications and plans for this work are included in this Addendum and elsewhere in these Contract Documents.

b. Erosion and sediment control measures during the construction of the storm sewer outfall

This will entail the erosion and sediment control measures during the construction of hydraulic features necessary to convey stormwater runoff at the point where the storm sewer system discharges into the Little Neck Bay. Specifications and plans for this work are included in this Addendum.

#### 3. Water Main

This entails all measures required for the replacement of the existing 8-inch ductile iron water main as shown on the Contract Documents. These measures include but are not limited to excavation, shoring, and dewatering (as necessary) of the water main trench, the removal and installation of the 8" water main, associated apparatus including gate valves, caps, fittings and other appurtenances including any offsets and bends as required by the field conditions, service connections, all hydrostatic and leakage testing, disinfection, flushing, backfilling, and removal of material deemed by the Engineer as unsuitable.

All associated water main materials and work shall be furnished as specified in NYCDEP Bureau of Water and Sewer Operations Standard Water Main Specifications, August 2009 or latest revision.

Specifications for this work are included elsewhere in these Contract Documents.

#### 4. Wetland Restoration

This will entail landscaping along the shoreline as shown on the Contract Documents, adjacent to the work areas, Queens, New York. Should an alternate site be selected for wetland mitigation, the work will be similar in nature and size. DDC would notify the Contractor, as necessary, of the change in site location.

Unless otherwise noted, all construction activities will be field directed by the Engineer. Appropriate erosion and sediment control measures shall be installed as directed and approved during site work. Specifications and plans for this work are included in this Addendum.

The mitigation site shall be landscaped as directed by the Restoration Specialist and approved the Engineer with consultation with the Restoration Specialist. Any debris removal required, shall take place prior to landscaping. Mitigation site shall be planted as per the Contract Drawings.

#### 5. Site Restoration

The entire Project site will be restored upon project completion as per the Contract Drawings.

#### B. <u>Involved Agencies and Firms</u>

Before bidding, the contractor shall become familiar with the following involved agencies and firms and their respective responsibilities in the project:

#### 1. New York City Department of Transportation (NYCDOT)

This City agency is the lead agency on the overall Contract. This City agency will maintain the roadway reconstructed under this project.

## 2. New York City Department of Environmental Protection (DEP)

This City agency will maintain the facilities where the five outfalls and the storm sewer systems are to be constructed under this project.

## 3. New York State Department of Environmental Conservation (NYSDEC)

This State Agency has issued a tidal wetland permit authorizing work in regulated areas to be performed under this Contract. This Agency has the regulatory authority to inspect the work site in order to ensure that permit requirements are not violated.

## 4. New York City Department of Design and Construction (NYCDDC)

They will administer and inspect the Contractor's work with regard to the installation of the storm sewers, outfalls and all other aspects of the project, including managing the overall project schedule, construction sequencing of the sewer work and outfall construction. The Contractor will be required to obtain all permits in relation to sewer construction. Whenever reference is made in these specifications and on the Construction Drawings to "the Engineer", it means the Resident Engineer on site, hired by NYCDDC.

#### 5. New York City Department of Parks and Recreation (NYCDPR)

This City agency will determine the location and tree species, with input from the Community Liaison, for the trees to be planted within the project area. The Engineer shall approve the location and species prior to the commencement of landscaping work.

#### 6. Community Liaison

The Douglas Manor Homeowners Association will have a community liaison that shall provide input, as required, for items such as tree locations and species.

#### 7. <u>Hazen and Sawyer, P.C.</u>

This engineering firm is the design consultant for all the work contained in these specifications. They are engaged by NYCDDC.

#### 8. <u>United States Army Corp of Engineers</u>

This Federal Agency issues permits for all work within Federal jurisdiction wetlands. This agency has the regulatory authority to inspect the work site in order to ensure that permit requirements are not violated.

#### 9. Restoration Specialist (Construction Monitor)

The Restoration Specialist will be retained by the Contractor. The Restoration Specialist shall supervise all restoration work performed by the Contractor and his/her Subcontractors for the duration of the project, in accordance with the plans, specifications and directions of the Engineer. The individual or firm filling this position will be responsible for oversight of the complete outfall installation. This individual or firm will be familiar with the erosion and sediment control plan for the entire outfall site, and oversee all work in wetland areas and ensuring that the work adheres to permit requirements. The Restoration Specialist is responsible for compliance with the permit as it relates to outfall construction. The exact powers of the Restoration Specialist (Construction Monitor) are stipulated in the wetland permit.

#### C. Qualifications of Contractor/Subcontractor

1. The Contractor or its proposed subcontractor shall have performed at least three (3) projects similar in scope and type within the last five years that involved the restoration and/or creation of tidal wetland systems.

To support the Contractor's contention that the Contractor or its proposed subcontractor is qualified to perform work involving the creation or restoration of tidal wetlands the Contractor must provide the following information in a Statement of Qualifications within three (3) days upon request by the City:

Provide specific details on projects (i.e., location, size, cost, client, plant species, time of planting, etc.) Provide client contact person's name and telephone number. Describe any problems encountered during construction and corrective action taken to remedy the problem. Describe any violations issued by NYSDEC or any other regulatory agency. Describe how the violations were resolved. Enclose copies of applicable wetland permits. Provide chronological photos recording the progress of the restoration and/or creation efforts, including preconstruction through completion. Include any required sign-offs from client and provide a list of all plants replaced on site.

2. The Contractor shall have performed at least three (3) contracts that involved the installation and maintenance of soil erosion and sediment control devices during construction of a project.

To support the Contractor's contention that he/she is qualified, the Contractor shall be able to provide the following information in a Statement of Qualifications, as detailed in the paragraph below.

Provide specific details on the projects (i.e., location, size cost, client, etc.). Provide client contact person's name and telephone number. Describe regulatory requirements of the erosion control devices. Describe any problems encountered during construction and operation of the devices. Discuss corrective actions taken to remedy the problem. Describe any violations issued by regulatory agencies. Describe how the violations were resolved. Provide chronological photos recording the progress of construction and operation of the erosion and sediment control devices, including preconstruction through operation during site construction and restoration after construction.

Within three (3) days upon request by the City the Contractor shall identify a Certified Professional in Erosion and Sediment Control who will be responsible for implementation of this aspect of the project. The certification of professionals is cosponsored by the International Erosion Control Association and EnviroCert International, Inc. The Contractor shall also provide a copy of the certification for the person so identified.

3. The Contractor must be able to complete and submit to NYCDDC the Statement of Qualifications described in this Section within three (3) calendar days after requested to do so by NYCDDC.

## 7.03 <u>INSPECTIONS BEFORE BIDDING AND MANDATORY PRE-BID</u> CONFERENCE

Before bidding the Contractor shall visit the site of the work. The Contractor shall obtain all necessary information, and make his own determinations of any and all conditions which may affect in any way the performance of his work and his bid prices under these Contracts. All pertinent data and dimensions with regard to existing construction shall be verified by the Contractor.

Access to the site for inspection purposes prior to bidding is on a continual basis, since the site is a public street.

All bidders are required to attend a mandatory pre-bid conference, if one should be scheduled. Exact time and place meeting place is to be announced later.

#### 7.04 <u>STANDARD SPECIFICATIONS</u>

a. Roadway Repair and Resurfacing

Unless otherwise specified, all work, materials, and equipment shall conform to the applicable sections of the City of New York Department of Transportation Standard Highway Specifications.

#### b. Sewer Work

Unless otherwise specified, all work, materials, and equipment shall conform to the applicable sections of the City of New York Department of Environmental Protection Bureau of Water and Sewer Operations Standard Sewer Specifications.

#### c. Water Main Work

Unless otherwise specified, all work, materials, and equipment shall conform to the applicable sections of the City of New York Department of Environmental Protection Bureau of Water and Sewer Operations Standard Water Main Specifications.

#### 7.05 <u>INSPECTION BY THE CITY, STATE AND FEDERAL</u> GOVERNMENT

The Contractor shall provide proper facilities for inspection and access to the work at all times, whenever it is in preparation and progress, for authorized representatives of the City, State, and Federal Governments, and in the presence of the Engineer.

#### 7.06 <u>EXISTING UTILITIES</u>

All subsurface utility and structure information shown on the Contract Drawings were obtained from various plans and maps and field investigations, however, it is not guaranteed to be complete or accurate. It shall be the Contractor's responsibility, as outlined in NYCDOT Standard Specifications, Section 1.06.18, to locate all such necessary utilities or structures. Investigation may include digging of test pits prior to the start of construction and/or by contracting the Joint Underground Locating Service (JULS). Test pit payment shall be paid under item 7.16 D (Test pits). During the progress of the work, the Contractor shall protect from damage any existing utilities or services within the work areas until, if required, they have been re-routed, disconnected or capped off.

#### 7.07 PERMITS REQUIRED

The Contractor is advised that the Department of Design and Construction has filed a joint application for permit with the New York State Department of Environmental Conservation (NYSDEC), the United States Army Corps of Engineers (USACE), the New York State Department of

State (NYSDOS) and the New York City Department of City Planning. No work shall commence until the above-mentioned permit has been obtained for this project. As the application is being processed, it shall be the Contractor's responsibility to obtain and update the said permit. No separate or additional payment shall be made to the Contractor for complying with the above requirements, obtaining and updating of said permits. The cost of such work shall be deemed included in the prices bid for all contract items of work. The Contractor shall become familiar with the following permits:

- New York State Department of Environmental Conservation Excavation and Fill in Navigable Waters;
- New York State Department of Environmental Conservation 401
   Water Quality;
- New York State Department of Environmental Conservation Tidal Wetlands;
- New York State Department of Environmental Conservation Coastal Erosion Management;
- U.S. Army Corps of Engineers Nationwide Permit 7: Outfall Structures and Associated Intake Structures;
- New York State Department of State Coastal Consistency Concurrence; and
- New York City Department of City Planning Waterfront Consistency Program (WRP) Consistency Assessment (included as part of the EAS)

The Contractor shall obtain all necessary permits as outlined in NYCDOT Standard Specifications, Section 1.06.23.

## 7.08 <u>LAND FOR CONTRACTOR'S USE</u>

It is the responsibility of the Contractor to acquire land for staging area and/or use as a construction equipment and material storage yard.

## 7.09 <u>LICENSED SURVEYOR FOR ENGINEER'S USE</u>

#### A. Work Included

The Contractor shall engage the services of a New York State licensed surveyor as approved by the Engineer and reporting directly to the Engineer to make such surveys, as-builts, soundings, cross sections or

other measurements as may be required by the Engineer for the five (5) outfall construction areas within the outfall easements shown on the Contract Drawings. Surveying services included in the item are for the sole use of the Engineer. The surveyor may be used by the Engineer to verify grades, but surveying services needed for layout of the site and activities not related to outfall construction is the responsibility of the Contractor and is not provided under this item.

The Contractor for this Contract shall include in his total bid a per diem cost for the services performed by the Licensed Surveyor. This cost shall be shown on the Bid Schedule of Prices as Item No. BMP-7.09.

The cost proposals shall include unit prices on a per diem basis and shall include all necessary equipment, including vehicles for the Surveyors.

The cost proposals shall be submitted to the Engineer for evaluation and selection.

### B. <u>Measurement and Payment</u>

Measurement for payment shall be on a per diem basis. One day shall consist of any eight (8) hour time period from 7:00 AM to 6:00 PM Monday through Friday plus travel time, not including holidays. The per diem rate shall include the services of a three man surveying crew. The Engineer shall be present during the progress of Work and the Engineer shall deem as to whether a full eight hour period had been employed in completing the Work, and as to whether the Contractor has utilized his crew at the productivity output required to complete the Work as anticipated. The surveyor will submit invoices to the Engineer, which will be forwarded to the Contractor for prompt payment. Payments shall be made for invoiced costs only, with no payment for overhead and profit.

#### 7.10 <u>CONSTRUCTION - SPECIAL REQUIREMENTS</u>

#### A. <u>Field Measurements</u>

The Contractor shall take all necessary measurements in the field to determine the exact dimensions for all work and verify all pertinent data and dimensions shown on the Contract Drawings.

#### B. <u>Excavated Material</u>

Unsuitable excavated material shall be removed from the site together with all debris encountered in the excavations and the costs of such removal and disposal shall be included in the unit price bid for the applicable items in this Contract.

#### Access Requirements

C.

The Contractor is advised that he shall provide access to the sites of the work for all other Contractors and that access to the sites of the work performed under all contracts shall be closely coordinated and scheduled with all other Contractors at the various sites during the life of this Contract.

## D. <u>Connections to Existing Piping</u>

Connections to existing piping shall be made to permit ready disconnection of equipment with minimum disturbance of adjoining piping and equipment. The Contractor shall be responsible for the exact alignment of all piping with the existing piping and associated equipment and under no circumstances will pipe springing be allowed.

#### E. <u>Noise Control</u>

The Contractor shall implement noise control measures during construction including limits on the hours of operation and compliance with sound level standards. Those measures will comply with NYC and Federal noise requirements. The Contractor shall comply with the NYC Noise Code. No separate payment shall be made for this work; the cost thereof shall be included in the bid price for other items.

#### F. Dust Control

During construction, all appropriate fugitive dust control measures, including watering of exposed areas and using dust covers for trucks shall be employed. These measures include satisfying Section 1402.2-9.11 of the New York City Air Pollution Code. To prevent fugitive dust from construction activities from becoming airborne, the following measures are proposed:

- Use of water or surfactant to control dust in the construction operations and during the clearing and grading of land;
- Application of water to dirt paths, materials, stockpiles, and other surfaces that can generate airborne dust over extended periods.
   Construction of accessways would be built with properly sized stone or concrete equivalent over filtering material;
- Covering open-body trucks transporting materials likely to generate airborne dust at all times when in motion; and

 Prompt removal of earth or other material from paved streets where earth or other material has been deposited by trucking or earth-moving equipment, erosion by water, or other means.

No separate payment shall be made for this work; the cost thereof shall be included in the bid price for other items.

#### G. <u>Protection of Archeological Resources</u>

In order to protect specific archaeological resources where there is a significant potential of discovery, the City's Archaeologist shall be present on site during sub-surface excavations. Specifications for this work is included in Section HW-908, "Allowance for Extra Work due to Archaeological Discoveries".

#### H. Sequence of Construction

All work shall be completed in accordance with the Contract Drawings, and upon approval of the Engineer in consultation with the Restoration Specialist. All work shall be done in a manner to minimize disturbance to the natural area, Little Neck Bay, and existing vegetation.

Stake out and receive approval from the Engineer for the limits of work before beginning any clearing. The Contractor shall obtain approval from the Engineer for the limits of work, dewatering procedures, if necessary, and all erosion and sediment control procedures before beginning any clearing. The Restoration Specialist shall identify all trees to receive tree guards and trees to be removed. The Engineer shall give approval for all trees identified for removal before the removal operations begin.

Landscaping for the roadway repair areas and wetland mitigation areas is not included in construction sequencing; the contractor must receive approval for all of the landscaping work from the Restoration Specialist prior to planting.

Work for the outfall installation occurs at five individual sites and shall be phased as approved by the Engineer. The following suggested sequence applies to all outfall sites. Only one outfall shall be installed at a time.

- 1. Conduct Phase 1B Study according to the requirements of the New York City Landmarks Preservation Commission at the direction of the Engineer and Archaeologist (Archaeological Testing).
- 2. No construction for the outfall shall begin until all perimeter erosion control measures have been installed as shown on the Contract Drawings.

- 3. The Contractor shall prevent the deposition of materials onto the public roadway. All materials deposited onto the public roadway shall be removed immediately.
- 4. Install perimeter erosion and sediment control measures, including silt fencing around the work area. Silt fence shall be placed parallel to the water's edge as directed by the Engineer. If clearing is required for installation of a particular measure, all measures not requiring clearing shall be installed first. Clearing of the necessary land for installation of a particular measure may then proceed.
- 5. Install cofferdam, or other approved method. The top of cofferdam shall be above the mean high water line to isolate the work area from the tidal influence. The work area shall not contain standing water and all work below the mean high water line shall be conducted within the confines of a cofferdam, or other approved method. Construction materials including but not limited to debris, sediments, and fresh concrete, shall be prevented from entering the waterways.
- 6. Perform site clearing and grubbing.
- 7. Install approved dewatering measures, as necessary, discharging, into Little Neck Bay, below the mean low water line to prevent disturbance to the existing vegetation. A portable sediment tank, or approved equal, shall be used to treat dewatering effluent prior to discharge. The contractor shall receive approval from the Engineer prior to placement of the portable sediment tank, or approved equal.
- 8. Install storm sewer from Shore Road to the outlet (See Utility Drawings for storm sewer layout and Dwg D2 for outfall details).
- 9. Construct riprap apron and perform grading. Work adjacent to the proposed apron shall be completed in a manner to minimize impacts to the existing vegetation (See Dwg D2 for rip rap apron detail and Landscaping Drawings for the final site plan).
- 10. Once complete, perform site grading, restore existing rocks and wall, as necessary, and install erosion control measures such as erosion control blanket, or approved equal, on sloped areas and as directed by the engineer. Seed all graded area.
- 11. Remove the cofferdam and dewatering measures, if used, and restore the dewatering area, as necessary and directed by the Engineer. All areas disturbed by dewatering activities shall be restored to pre-construction conditions, as approved by the Engineer. Stabilize the dewatering area with erosion control mat or equivalent.
- 12. Once permanent stabilization is complete, remove temporary perimeter erosion and sediment control measures.

## 7.11 <u>TRANSPORTATION AND HANDLING OF MATERIALS AND EQUIPMENT</u>

#### A. General

- 1. Contractor shall make all arrangements for transportation, delivery, handling and rigging of equipment and materials required for execution and completion of the work.
- 2. Working space on the site is limited. Equipment shall not be delivered to the site until it can be moved directly to the area where it will be utilized.
- 3. If necessary to move stored materials and equipment during construction, the Contractor shall move or cause to be moved materials and equipment without any additional compensation.
- 4. The Contractor shall take all necessary provisions to prevent inadvertent deposition and spillage of excavated soils or other materials that are being transported from the project site. The Contractor must employ the use of the truck tracking pad, wheel washing stations or other equipment deemed necessary to prevent spillage and deposition from vehicles from other construction equipment. No additional payment shall be made for this work. Cost shall be deemed included in prices bid for the Storm Water Pollution Prevention Plan (Payment Item 9.30).

#### B. <u>Delivery</u>

- 1. The Contractor shall arrange deliveries of products in accordance with construction schedules and in ample time to facilitate inspection prior to installation.
- 2. Coordinate deliveries to avoid conflict with work and conditions at the site and to accommodate the following:
  - a. Work of other Contractors.
  - b. Limitations of storage space.
  - c. Availability of equipment and personnel for handling products.
- 3. Do not have products delivered to project site until related Working Drawings have been approved by the Engineer.

- 4. Do not have products delivered to site until required storage facilities have been provided.
- 5. Do not have products delivered to site until the manufacturer's recommended storage instructions have been submitted and approved.
- 6. Have products delivered to site in manufacturer's original, unopened, labeled containers. Keep Engineer informed of delivery of all equipment to be incorporated in the work.
- 7. Partial deliveries of component parts of equipment shall be clearly marked to identify the equipment, to permit easy accumulation of parts and to facilitate assembly.
- 8. Immediately upon delivery, inspect shipments to assure:
  - a. Product complies with requirements of Contract Documents and approved submittals.
  - b. Quantities are correct.
  - c. Containers and packages are intact, labels are legible.
  - d. Products are properly protected and undamaged.

## C. <u>Product Handling</u>

- 1. The Contractor shall provide equipment and personnel necessary to handle products by methods to prevent soiling or damage to products or packaging.
- Provide additional protection during handling as necessary to prevent scraping, marring or otherwise damaging products or surrounding surfaces.
- 3. Handle products by methods to prevent bending or overstressing.
- 4. Lift heavy components only at designated lifting points.
- 5. Materials and equipment shall at all times be handled in a safe manner and as recommended by manufacturer or supplier so that no damage will occur to them. Do not drop, roll or skid products off delivery vehicles. Hand carry or use suitable materials handling equipment.

### D. <u>Removing and Hauling Equipment and Materials</u>

- 1. The Contractor shall inspect all items including all boxes, crates and packages containing equipment and materials for damage that may have occurred during shipment prior to its removal from the truck or other conveyance. Any damage shall be reported immediately to the Engineer.
- 2. The Contractor shall then carefully remove the equipment and materials from the truck or trucks on which it is shipped. The equipment and materials shall then be transported to the place of installation at the job site. The Contractor shall be liable for loss or damage to the equipment and materials that may occur while being unloaded, transported, stored or installed.
- 3. All equipment that arrives at the job site during normal working hours shall be unloaded as soon as practicable.

#### 7.12 PROTECTION OF MATERIALS AND EQUIPMENT AT THE SITE

The Contractor shall make every effort to minimize extended storage periods of materials and equipment at the Site by judiciously scheduling deliveries to coincide with construction needs.

Storage of any mechanical or electrical equipment out of doors at any time is absolutely prohibited regardless of the protection furnished. Storage of mechanical and electrical equipment within structures at the Site will not be permitted unless the structures are enclosed.

All mechanical equipment shall be coated, wrapped and otherwise protected from snow, rain, drippings of any sort, dust, mud, condensed water vapor, etc. during shipment, storage, and installation and until placed in service.

Should storage of mechanical equipment become necessary before it can be stored at the Site, the Contractor shall provide storage in a weatherproof warehouse.

Materials other than mechanical or electrical equipment may be stored out of doors if supported above ground surface on wood runners and protected with approved, effective and durable covers.

All storage and protection of materials and equipment at the Site shall be subjected to the approval of the Engineer.

All costs for equipment protection including warehousing or other work to meet the scheduled completion date shall be deemed to be included under the Contract and no additional payment will be made.

#### 7.13 <u>FINAL CLEANING</u>

#### A. Final Cleaning Under This Contract

- 1. At the completion of the work, the Contractor for this Contract shall remove all rubbish from and about the site of the work, and all temporary structures, construction signs, tools, scaffolding, materials, supplies and equipment which he or she or any of his subcontractors may have used in the performance of the work. The Contractor shall broom clean paved surfaces and rake clean other surfaces of grounds.
- 2. The Contractor shall thoroughly clean all materials, equipment and structures installed under this Contract; all marred surfaces shall be touched up to match adjacent surfaces.
- 3. The Contractor shall clean all landscaped areas of all debris and any objectionable material, as determined by the Engineer, and shall remove all such debris off-site.
- 4. The Contractor shall remove all temporary erosion control measures and replace with final features as shown on the plans and other Contract Documents contained herein, as directed by the Engineer.

#### B. Cleaning Materials and Methods

#### The Contractor shall:

- 1. Use only cleaning materials recommended by manufacturer of surface to be cleaned.
- 2. Use each type of cleaning material on only those surfaces recommended by the cleaning material manufacturer.
- 3. Use only materials which will not create hazards to health or property.
- 4. The Contractor shall only use cleaning methods approved by the Engineer.

#### C. Payment for Final Cleaning

No separate payment will be made for the aforementioned work, the cost thereof shall be included in the price bid for other items of this Contract.

#### 7.14 OSHA REQUIREMENTS

The Contractor shall comply with all applicable OSHA rules and regulations regarding hazardous materials. The Contractor's specific attention is called to OSHA Regulation 29 CFR 1920.120.

### 7.15 <u>NO SEPARATE PAYMENT</u>

No separate payment shall be made for the work specified in the Specific Provisions. All costs shall be included in the various Contract items unless otherwise specified.

#### 7.16 <u>BID BREAKDOWN</u>

The Contractor shall submit a breakdown of the bid prices of this Contract within 15 days after the commencement date specified in the Notice to Proceed. The bid breakdown shall be by reference to every detailed specification section listed for the Contract Item, including physical quantities, material costs, unit costs, and installation costs, where applicable. In addition, separate amounts for the following shall be included in the bid breakdown:

Bond, Insurance and Mobilization Final Working Drawings, Record Drawings

## 7.17 <u>DETAILED WORK DESCRIPTION</u>

#### Shore Road Roadway Repair and Outfalls

Work under this Contract is to be performed along Shore Road from 36<sup>th</sup> Avenue and West Drive to Shore Road and West Drive. The site is located in the Douglaston Historic District within the roadway limits which were determined by the City's Corporation Counsel Opinion (CCO) and five outfall easements which have been acquired by the New York City Department of Design and Construction (NYCDDC). The work area includes two main repair areas on Shore Road between Hollywood Avenue and Manor Road, and on Shore Road at Bayview Avenue.

#### Specification Section for this Addendum

#### **Specific Provisions**

7.18 Job Progress Frames

## Structures and Misc. Equipment

7.101	Work Included
7.102	Dewatering
7.103	Concrete
7.104	Steel Reinforcement
7.105	Welding
7.107-B	Rip Rap Stone and Angular Natural Field Stone
7.109	Geotextile Fabric
7.109A	Geogrid
7.110	Sheeting and Bracing

#### **Mortared Stone Work**

7.201	Work Included
7.202	Masonry Mortar
7.203	Masonry Accessories
7.204	PA Colonial Field Stone

## **Earthwork and Grading**

7.300	Work Included
7.302	Clearing, Grubbing, and Removals
7.308	Fill
7.308A	Select Granular Fill
7.312-E	Demolition and Site Clearing

#### Landscaping and Restoration

7.400	Work Included
7.401	Landscaping for Terrestrial Zone and Wetland Zone
7.403	Top Soil
7.404-A	Restoration Specialist
7.407-A	Erosion Control Mat
7.417	Debris Exclusion Fence
7.420	Typical Gutter and Chute Restoration

#### **Erosion and Sedimentation Control Measures**

7.500	Soil Erosion and Sedimentation Control Measures
7.504A	Silt Fence
7.510	Portable Sediment Tanks
7.511	Storm Drain – Inlet Protection

#### Perimeter Site Security/Access Control Measures

7.600 Soil Erosion and Sedimentation Control Measures

7.602 Boulder Provision and Placement

7.614A Block Curb

#### 7.18 <u>JOB PROGRESS FRAMES</u>

#### A. Work Included

Under this Item, the Contractor shall record all job progress of the project through photography in accordance with NYCDOT Standard Specifications, Section 6.43 except as modified as follows:

The number of photographs for the wetland restoration portion of the project is estimated to be a minimum of five (5) sets for each outfall location and an additional ten (10) sets for the mitigation area. These photographs shall be in addition to those required in Section 6.43.4

#### B. <u>Measurement and Payment</u>

The quantity to be measured for payment under this Section shall be the number of sets provided in accordance with NYCDOT Standard Specifications, Section 6.43 and directions of the Engineer.

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#### <u>DIVISION VII - DETAILED SPECIFICATIONS</u> STRUCTURES AND EQUIPMENT

#### 7.101 WORK INCLUDED

Under structures and equipment work, Contractor shall furnish all labor, materials and equipment and shall do all work as specified herein and as shown on the Contract Drawings, including all incidental and appurtenant work required for a complete job.

The work shall include items of work specified under the following sections:

Section No.	<u>Title</u>
7.102	Dewatering
7.103	Concrete
7.104	Steel Reinforcement
7.105	Welding
7.107-B	Rip Rap Stone and Angular Natural Field
	Stone
7.109	Geotextile Fabric
7.109A	Geogrid
7.110	Sheeting and Bracing

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#### 7.102 <u>DEWATERING</u>

#### A. <u>Description of Work</u>

The Contractor shall furnish, install, operate and maintain dewatering equipment as required or as directed by the Engineer, for water main work, sewer and outfall work, and road repair areas as specified herein. The dewatering equipment shall include, but not be limited to, the following equipment items:

- 1. Ditches, Sumps,
- 2. Pumps
- 3. Piping
- 4. Accessories
- 5. Wells.

#### B. <u>General Requirements</u>

- 1. <u>General Specifications</u> Work performed under this Section shall be in conformance with the Standard Water Main Specifications and Standard Sewer Specifications.
- 2. <u>Examination of the Sites</u> The Contractor shall take all steps that he considers necessary to familiarize himself with the surface and subsurface conditions at the site, and shall obtain the data that is required to analyze the water and soil conditions at the site.
- 3. <u>Shop Drawings</u> The Contractor shall submit to the Engineer for approval shop drawings and any other material required to substantiate conformance with the requirements set forth in the specifications. Shop drawings shall include a detailed plan of operations, including layouts, details, operations, and disposal of water and sediment for each type of dewatering system proposed.

## C. <u>Dewatering</u>

1. <u>General Information</u> - The Contractor shall perform dewatering activities to insure that all construction is performed under dry conditions. If a well point system is proposed, the Contractor shall utilize a licensed well driller. The Contractor shall always drill down to sand or gravel layer when available and when it is below the lowest excavated invert.

The Contractor shall operate the dewatering pumps continuously, at least a day before and during construction until all associated work within the influence zone of the well point have been completed.

2. <u>Care and Disposal of Water</u> - Care of water shall be in accordance with Article 15: Water Resource, Title 15: Water Supply, Section 15-1525 of the New York Environmental Conservation Law.

Water from open cut and/or sheeted excavations, manholes, structures, trenches, or from whatever source, shall be disposed of strictly in accordance with methods approved by the Engineer.

The Contractor shall submit proposed dewatering methods to the New York State Department of Environmental Conservation for the required permits. If a well point dewatering system is proposed, the Contractor shall utilize a licensed well driller. Contractor shall contact NYSDEC a minimum of two (2) weeks in advance of dewatering system startup.

When required by the Engineer, water managed by dewatering systems shall be passed through a settling basin and tank of acceptable size and shape and equipped with an overflow. Each settling basin shall be cleaned as required and as ordered by the Engineer.

Sufficient water to flush all sewers and drains shall be provided by the Contractor when necessary. If any sewer, drain, catch basin, inlet or gutter, that receives dirty water attributable to the Site, should become filled or partially filled with sediment or debris, the Contractor shall promptly and satisfactorily remove such deposits.

## D. <u>Design Criteria</u>

- 1. Provide dewatering system which will effectively reduce hydrostatic pressure and lower groundwater levels below excavation levels as necessary for safe and proper prosecution of the work and which will result in obtaining stable, substantially dry subgrade for prosecution of subsequent operations.
- 2. Design dewatering methods so that the effluent discharge from the sediment control measures (sump pit, sediment tank) does not impact surface water using the following protocol which was developed to monitor dewatering effluent discharge:
  - a. Monitoring of Dewatering Operations

Prior to the start of dewatering operations, a visual inspection of the installation of the sediment control measure(s) such as a dewatering sump pit and/or a portable sediment tank shall be made by the Engineer. Upon commencement of dewatering effluent discharge from the sediment control measures, at least three turbidity measurements of the effluent shall be conducted over a 15 minute-period using the following methodology. If the arithmetic mean of these three turbidity measurements is greater than three (3) times the ambient turbidity level or 50 NTUs, whichever is less, all dewatering operations shall be discontinued until the Engineer is consulted regarding additional control measures. If the ambient turbidity level is greater than 50 NTUs, the dewatering effluent discharge shall not exceed the ambient turbidity level unless otherwise directed by the Engineer.

#### b. Determination of Ambient Turbidity

Ambient turbidity levels of surface waters shall be determined using a Hanna Instruments HI 93703 Portable Microprocessor Turbidity Meter available from Hanna Instruments, Inc., Woonsocket, RI or Orbeco Hellige TB200 Portable Turbidimeter or LaMotee 2020we or 2020wi Portable Turbidity Meter or equivalent approved by the Engineer. Ambient turbidity measurements shall be collected under dry weather conditions. Dry weather conditions are defined as no precipitation in the preceding 48 hours. A minimum of three turbidity measurements shall be collected using as follows:

- Water samples shall be collected a minimum of 20 feet upstream of the work area prior to commencement of any construction activity.
- Water samples shall be collected without disturbing stream bank or stream bed sediments.
- The turbidity measurements shall be conducted according to the instructions provided in the unit's Operational Guide which are summarized below.
- After the meter has been turned on, fill a clean cuvet up to one quarter inch from its rim with thoroughly agitated sample.

- Allow sufficient time for bubbles to escape before securing the cap.
- Wipe the outside of the cuvet thoroughly with a lint-free tissue.
- Place the cuvet into the cell of the meter.
- Press the Read key and the LCD will display a blinking "SIP" (Sampling in Process). The turbidity value will appear after approximately 25 second.

The arithmetic means of the three dry weather upstream turbidity measurements shall be the ambient turbidity level. Turbidity shall be measured in Nephelometric Turbidity Units (NTUs).

#### E. Submittals

Submit the following for approval:

#### 1. Working Drawings

- a. Type of dewatering system proposed, showing arrangement, location and depths of proposed system, complete description of equipment and materials to be used, procedure to be followed, standby equipment, standby power supply and proposed location(s) of points of discharge of water.
- b. Obtain approval from the Engineer and appropriate regulatory agencies prior to installation of system.

#### F. Job Conditions

#### 1. Subsurface Conditions

a. Subsurface investigations and groundwater level determinations shall be conducted by the Contractor prior to implementation as specified herein.

# 2. Contractor Responsibilities

a. Select and install dewatering system to accomplish groundwater control as specified.

- b. Monitor quality of discharge from dewatering system to determine if soil particles are being removed by system.
- c. Measure to ascertain if movement is caused in adjacent areas by dewatering operations; take approved measures to minimize such movement.
- d. Take measures to prevent damage to property.
- e. Repair as approved damage, disruption or interference resulting directly or indirectly from dewatering operations.
- f. Remove sediments from all intercepted groundwater or surface water as specified herein and approved by the Engineer and the jurisdictional agency concerned. Under no circumstances shall the Contractor directly discharge, without treatment, into the drainage channel or creek.

# G. Sump Pit

The Contractor, at the direction of the Engineer shall provide a stone filled pit with perforated standpipe/nozzle wrapped with filter fabric within the limits of excavations in which intercepted groundwater or surface water is pumped to an approved location.

The number, location, size and shape of the sump pit will vary due to site conditions. The size of pump should be determined from manufacturer's specifications.

- 1. The standpipe shall be a perforated 12"-24" diameter corrugated metal or PVC pipe.
- 2. A base of 2" aggregate shall be placed in the pit to a depth of 12". After installing the standpipe, the pit surrounding the standpipe shall then be backfilled with 2" aggregate.
- 3. The standpipe shall extend 12"-18" above the lip of the pit.
- 4. The standpipe shall be wrapped with filter cloth before installation. If desired, 1/2" x 1/2" hardware cloth may be placed around the standpipe, prior to attaching the filter cloth. This will increase the rate of water seepage into the pipe.

# H. Surface Drainage

- 1. Intercept and divert surface drainage away from outfall construction, roadway repair or other excavations, by use of approved dikes, ditches, swales, open stone lined channel, temporary diversion pipes which could be either on the surface or buried, sumps or other means. To properly install buried diversion pipe the contractor may be required to excavate.
- 2. Design surface drainage systems to prevent erosion on or off the site or unwanted water flow.
- 3. Remove surface drainage system when no longer required.
- 4. Remove debris and restore site(s) to original conditions.

# I. <u>Drainage of Excavated Areas</u>

- 1. Provide and maintain ditches of adequate size to collect surface and subsurface water and seepage which may enter excavations and divert water into sump so that it can be drained or pumped into drainage channels as approved by the Engineer and the jurisdictional agency concerned.
- 2. Install settling basins or other approved apparatus as necessary to reduce amount of fine particles carried by water diverted away from excavation.
- 3. When no longer necessary, backfill and seal drainage ditches, sumps and settling basins with approved material.

### J. <u>Execution</u>

- 1. Install dewatering system as specified and with the approval of the Engineer.
- 2. Demonstrate by approved methods that no soil particles are present in water after 12 hours of initial pumping or draining and additionally as directed.
- 3. Dispose of precipitation and subsurface water away and clear of the work area. Keep excavations dry.
- 4. Maintain continuous and complete effectiveness of the installation.
- 5. Maintain water level at such elevation that no damage to structure or plant material can occur because of excessive hydrostatic pressure. In any event, maintain water level two feet minimum

below bottom of subgrade until sufficient concrete work or backfilling or both has been completed to adequately offset uplift pressures.

# K. <u>Dewatering System Removal</u>

- 1. Remove and dispose of all stone, filter fabric and piping that comprise curtain drains and/or sump pits used in dewatering in accordance with Federal, State and local regulations at a permitted site.
- 2. Backfill remaining space as necessary to restore surface and subsurface to its original or proposed condition in accordance with the Engineer's approval.

# L. <u>No Separate Payment</u>

Dewatering work shall be performed by the Contractor only as directed by the Engineer. The cost for all labor, materials and equipment required for the Dewatering shall be deemed included in the bid price for sewer and restoration work. No separate payment shall be made for Dewatering.

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# 7.103 <u>CONCRETE</u>

#### A. Work Included

<u>Description</u> - The Contractor shall furnish, and place all structural and nonstructural concrete as indicated on the Contract Drawings and as specified herein. Nonstructural concrete does not include steel reinforcement and is used for stone embedment, sidewalks, pedestrian ramps, curbs, concrete cores, mud mats, cradles and fill concrete or as noted on the Contract Drawings.

# B. General Requirements

1. General Specifications - The General Specification: 11-Concrete (Dated November 1991) of the Department of Environmental Protection (DEP) and Standard Sewer Specifications of the Department of Design and Construction (DDC) is declared to be part of this specification, the same as it is fully set forth elsewhere herein. Copies of this specification may be obtained from the Department. Concrete work shall conform to all requirements of that specification except as modified by the Detailed Requirements listed below.

#### 2. Submittals

The Contractor shall submit to the Engineer for approval shop drawings and other materials required in accordance with the requirements set forth on the Contract Drawings and the Specifications in accordance with the Standard Sewer Specifications. Submittals shall also include all material required under the "Submittals" section of the chapters of General Specification 11, Concrete, and any additional submittals hereinafter specified.

# C. <u>Detailed Requirements</u>

The reference numbers in this Specification are keyed to the chapters and section numbers of General Specification 11; the first number(s) to the left of the first decimal designates the chapter and the subsequent numbers to the right of the first decimal designate the sections within the chapter. The Detailed Specifications herein shall take precedence over the NYCDEP Standard Sewer Specifications, August 2009.

1.4.1.6 The Engineer shall be responsible for all concrete inspections (including semi-controlled inspection).

- 2.1 Coarse and Fine Aggregates for Concrete shall be well graded in accordance with 2.6.1.1. Maximum size of course aggregate shall be 3/4". All sieve sizes (1-1/2" to No. 200) shall be used in determining grading of both coarse and fine aggregates.
- 2.2.4 Contractor shall submit to the Engineer for approval a minimum of two (2) suppliers of aggregate he proposes to use.
- 2.2.5 Contractor shall furnish confirmation to the Engineer that he can obtain 100% of the needed aggregates from one area prior to approval to place concrete.
- 2.3 Maximum cementitious material factor shall be 680 lbs/cu. yd of concrete for 4000 psi concrete.

For concrete mixed with only Portland Cement, the total alkalis in the cement (calculated as the percentage of NA<sub>2</sub>O plus 0.658 times the percentage of K<sub>2</sub>O) shall not exceed 0.40%.

For concrete mixed with Portland Cement and an appropriate amount of fly ash, the total alkalis in the Portland Cement (calculated as the percentage of NA<sub>2</sub>O plus 0.658 times the percentage of K<sub>2</sub>O) shall not exceed 0.85%.

An approved mineral admixture Type F (Fly Ash) shall be substituted for cement in the ratio of 20% by weight

- All concrete, unless noted otherwise on the Contract Drawings, shall be air entrained and contain a water reducing or high range water reducing admixture. For proportioning of air content and admixtures, see Chapter 3, Sections 3.5, 3.6 and 3.8.
- 3.3 All concrete shall be Class 40, 4000 psi based on 28 day compressive test. All concrete shall be proportioned and tested in accordance with Section 1.4.3 of the General Specifications 11 Concrete, unless noted otherwise.
- 3.4 All concrete shall be normal weight. Lightweight Concrete shall not be used unless noted otherwise.
- 3.6 Slump:
  - 1. Slump for all concrete shall be 3 +/- 1 inches, unless indicated otherwise.

- 2. Where high range water reducing admixture is used, the specified water-cementitious material ratio shall be reduced by 0.02 and concrete shall be proportioned for no higher than 3-inch slump. The slump after addition of the high range water reducing admixture shall not exceed 8 inches when measured at the point of placement.
- 3. A tolerance of up to 2 inch above the maximum indicated slump shall be allowed for one batch in any five consecutive batches tested provided that it can be demonstrated that the specified water-cementitious material ratio is not exceeded.
- 3.5.1.1 When the above tolerances are exceeded, the condition shall be immediately investigated and corrective action taken. Corrective action may include modification of the mix as required by the NYC Building Code. A report of the condition and the remedial action taken shall be filed with the Engineer designated for Controlled Inspection within 48 hours.
- 4.3.7.1 Form ties for all structures containing or resisting liquid pressure shall have water stops at mid-thickness of the wall.
- 5.3 Deformed billet steel bars shall comply with the requirements of ASTM A615, Grade 60.
- 6.4 Expansion Joints
- 6.4.1 <u>General Information</u> Expansion joints with joint fillers and joint sealants shall be constructed where shown and as indicated on the Contract Drawings.
- 6.4.2 Materials and Installation
- 6.4.2.1 <u>Joint Fillers</u> Expansion joint filler shall conform to ASTM D1752, Type 1. The joint sealant shall be separated from the filler by a suitable bond breaker of polyethylene film or tape as recommended by the sealant manufacturer.

#### 6.4.2.2 Joint Sealants

a. A single component polyurethane sealant meeting ASTM C920, Type S, Grade NS, Class 25, Use NT, M, A, and O. Capable of withstanding 25% in extension or compression such as Magnum NS-100, Tamms Industries, or Sikaflex 1A, Sika Corporation, Lyndhurst,

NY or approved equal shall be used in all expansion joints in concrete and masonry and wherever else specified or shown on the Contract Drawings, except as indicated in 6.4.2.2.b. below.

It shall be furnished in pour grade or gun grade depending on installation requirements. Primers shall be used as called for by the manufacturer. The sealant shall be furnished in colors as directed by the Engineer.

- b. A multi-component, non-sag, low-modulus polyurethane rubber sealant meeting ASTM C920, Type M, Grade NS, Class 25, use NT, M, A, and O. Capable of withstanding 50% in extension or compression such as Sikaflex-2C NS/SL, Sika Corporation Lyndhurst, NY; Sonolastic SL-1, Sonneborn, Minneapolis, MN; Permapol RC-270 Reservoir Sealant, Products Research and Chemical Company; or approved equal shall be used in all concrete floors subject to heavy traffic and wherever else specified or shown on the Contract Drawings.
- 6.4.2.3 <u>Installation of Joint Fillers and Sealants</u> Joint fillers and sealants shall be installed in accordance with manufacturer's recommended procedures and as shown on the Contract Drawings. Adhesive for holding sponge rubber joint filler to concrete shall be Scotchgrip Cement No. 1300 as manufactured by Minnesota Mining and Manufacturing Co, or W.R. Meadows, Inc., or approved equal.

Joint filler that will be exposed after removal of forms shall be cut and trimmed to ensure a neat appearance and shall completely fill the joint except for the space required for the sealant. The filler shall be held securely in place and no concrete shall be allowed to enter the joint or the space for the sealant and destroy the proper functions of the joint.

A bond breaker of polyethylene film shall be used between filler and sealant. The joint shall be thoroughly clean and free from dirt and debris before the primer and the sealant are applied. Where the finished joint will be visible, masking of the adjoining surfaces shall be carried out to avoid their discoloration.

The sealant shall be neatly tooled into place and its finished surface shall present a clean and even appearance.

- 6.5 Waterstops
- 6.5.1 Work Included
- 6.5.1.1 <u>Description</u> The Contractor shall furnish and install all waterstops for expansion and construction joints as indicated on the Contract Drawing, specified herein or required for a complete installation.

# 6.5.1.2 General Requirements

- 1. <u>General Specifications</u> Waterstops shall be manufactured from virgin polyvinylchloride and shall meet or exceed all requirements set forth in the U.S. Corps of Engineers Specification CRD C572.
- 2. <u>Samples</u> The Contractor shall submit to the Engineer one (1) sample of each type of PVC waterstop. Each sample is to include a splice.
- 6.5.2.1 General Information Prior to installation, the Contractor shall submit layout drawings for approval, showing diagrammatically or otherwise the extent of the waterstop installations that are proposed to ensure that all construction and expansion joints will be watertight. The drawings shall include elevations, sections, etc. and all details to show that a continuous watertight installation shall be provided.

Construction joints made in other than positions shown on the Contract Drawings for the convenience of the Contractor are subject to the Engineer's approval and shall have water stops installed in these non-indicated construction joints at no additional cost to the City.

#### 6.5.2.2 Materials and Installation

1. <u>Materials</u> - All waterstops shall be of polyvinylchloride extruded from an elastomeric plastic compound of which the basis resin shall be polyvinylchloride. The compound shall contain any additional resins, plasticizers, stabilizers or other materials needed to ensure qualities which will meet the requirements herein specified.

The required minimum physical characteristics for this material are per ASTM D638:

Tensile strength - 1,750 psi

Ultimate elongation - not less than 280%

No reclaimed PVC shall be used for the manufacture of the waterstops. The Contractor shall furnish certification that the proposed waterstops meet the above requirements.

Waterstops for construction joints shall be flat ribbed type, 6 inches wide with a minimum thickness at any point of 3/8 inches.

Waterstops for expansion joints shall be ribbed with a center bulb, 9 inches wide with a minimum thickness at any point of 3/8 inches. Center bulb shall have an outside minimum diameter of 1 inch and an inside minimum diameter of ½ inch.

- 2. <u>Installation</u> Waterstops shall be installed in the work so that they are embedded to an equal depth in concrete on both sides of the joint and the waterstops shall be kept free from oil, grease, mortar or other foreign matter. Waterstops shall be adequately secured against movement during the pouring of concrete. Forms adjacent to waterstops shall be rigidly constructed and braced to prevent the concrete from leaching through joints and the displacement of waterstops due to power vibrating of the concrete. Concrete adjacent to waterstops shall be placed in 12 inch lifts and power vibrated to prevent honeycombing, voids and separation of aggregates at the surfaces of concrete separation joints.
  - Splices Splices at the intersection of runs of a. waterstops shall be made by heat sealing the adjacent surfaces in accordance with the recommendations manufacturer's using thermostatically controlled electric source of heat. Only straight butt joint splices will be allowed in the field. At least three satisfactory field splices shall be made as samples on site. The Engineer may require tests on these splices by an approved laboratory, at the Contractor's expense, to certify the tensile strength of the joint. The strength attained shall be at least 80% of the unspliced material before any is used in the work.

- b. <u>Defective Work</u> Defective work, as determined by the Engineer, shall be remedied by cutting and rebuilding the concrete walls and slabs, replacing the waterstop assemblies or remedied by other methods as approved by the Engineer.
  - c. Responsibility The final responsibility for constructing a watertight condition at expansion joints and construction joints remains with the Contractor as part of the work under this Contract.
- 6.6.2.1 The Contractor shall coordinate and/or provide for the installation of anchor bolts, pipes, sleeves, inserts, chases, recesses, and all other embedded items, required in the work.
- 6.6.5.3 The Contractor shall submit equipment pad layout drawings.

#### 6.7 <u>Precast Concrete</u>

- A. The Contractor shall furnish and install all precast items shown or specified in the Contract Documents, including all appurtenances necessary to make a complete installation. This section does not include prestressed or post-tensioned concrete.
- B. Without limiting the generality of other requirements of these specifications all work hereunder shall conform to the applicable requirements of the referenced portions of the following documents, to the extent that the requirements therein are not in conflict with the provisions of this Section.
  - 1. Precast Prestressed Concrete Institute Standard MNL -117.
  - 2. ASTM C478 Specification for Precast Reinforced Concrete Manhole Sections.
  - 3. ACI 318 Building Code Requirements for Structural Concrete.
  - 4. ACI 350 Code Requirements for Environmental Engineering Concrete Structures.

# C. Submittals

- 1. The Contractor shall submit shop drawings for all precast concrete items. Submitted drawings shall show all dimensions, location and type of lifting inserts, and details of reinforcement and the method of anchorage of surrounding work.
  - 2. For all precast items which are manufactured, the Contractor shall also submit a list of the design criteria used by the manufacturer.
    - a. For all precast items which are manufactured, and which have a clear dimension, in any direction, greater than or equal to 4'-0", the Contractor shall submit design calculations per criteria stated on contract drawings. The precast concrete calculations shall be stamped and signed by a Professional Engineer registered in the State of New York.
  - 3. The Contractor shall submit certified reports for lifting inserts indicating allowable design loads.

## D. Quality Assurance

- 1. Precast concrete units shall be made by an experienced manufacturer and shall be constructed as shown on the Drawings and specified herein and shall be free of defects, checks and cracks. Care shall be taken in the mixing of materials, casting, curing and shipping to avoid any of the above.
- 2. The Contractor shall notify the Engineer a minimum of 24 hours prior to casting and when the units have been fabricated and await the Engineer's consent prior to shipping to the site.
- 3. The Engineer may elect to examine the units at the casting yard or upon arrival of same at the site. The Engineer shall have the option of rejecting any or all of the precast work if it does not meet with requirements shown on the Drawings or specified herein. All rejected work shall be replaced at no additional cost to the City.

#### E. Products

- 1. The joint sealing compound shall be Quik-Seal, a preformed, cold applied, ready to use plastic joint sealing compound as supplied by Quikset Utility Vaults, Santa Ana, California; Ram-Nick by K.T. Snyder Company; or approved equal.
- 2. Mortar used between the sections of precast concrete manholes and vaults shall be as recommended by the manhole section manufacturer.
- 3. Non-shrink grout shall be used where grouting is required.

# F. Design

- 1. The precast concrete units shall be designed for the dead load of the units plus a minimum superimposed horizontal Truck load of H20 for the spans shown on the Drawings unless shown or noted otherwise on Drawings.
- 2. Deflection shall not exceed 1/360 of span at design load.

#### G. Fabrication

1. All precast items shall be fabricated in accordance with PCI Manual for Quality Control for Plants and Production of Architectural Precast Concrete Product.

#### H. Installation

- 1. Required pads, plates and reinforcing bars shall be furnished for casting and anchorage in the adjoining work. The precast concrete units shall be installed with the units tight and at right angles to the supporting beams or walls. The units shall be aligned and leveled in accordance with the procedures recommended by the manufacturer. Units shall be grouted by a mixture of not less than one part cement to three parts fine sand, care being taken to see that joints are filled. Damp grout that may have seeped
- 1. through shall be removed before it hardens.

- 2. All openings in the precast units shall be made by the Contractor and are the responsibility of the Contractor. Where details for an opening are not shown on the Drawings, the opening shall be made in accordance with the recommendation of the manufacturer.
  - a. For precast planks, when an opening causes a loss in carrying capacity of the unit, the adjacent units shall be designed to carry the additional dead and superimposed load transferred from the unit with the opening. The Contractor shall provide saddle headers to transfer the load to adjacent members.
- 3. Damaged units shall be replaced at no additional cost to the City.

# 8.7.6 <u>Connecting Concrete to Existing Structures</u>

- A. Where new concrete work is to be made integral with existing concrete work, the Contractor shall proceed as follows and as shown or specified.
  - 1. Roughen surface of existing concrete by chipping.
  - 2. Cut existing concrete where required or as indicated on the contract drawings.
  - 3. Where it is necessary to expose existing reinforcement, the reinforcing rods shall be cleaned by wire brushing and new reinforcement shall be hooked into existing reinforcement and lapped, drilled into existing concrete and set with an approved adhesive, or welded as directed. Proper preheating shall be required prior to welding. Clearance around each bar shall be in accordance to ACI 318 requirements.
  - 4. Where expansion anchors are shown, holes shall be drilled in the existing concrete as indicated on the contract documents and to the minimum depths as recommended by manufacture so as to provide a minimum bond strength of 125% of yield.

- 5. Waterstops to be set into existing concrete shall be as shown on the Contract Drawings.
- 6. Thoroughly wash all surfaces and install waterstops and reinforcing steel as required.
- 7. Apply bonding compound in strict conformance with the manufacturer's instructions.
- 8. Apply new concrete in strict conformance with bonding compound manufacturer's recommendations.
- B. Where portions of existing concrete structures or masonry bulkheads are to be removed and where the remaining concrete is to be finished smooth, the Contractor shall do the following as a minimum:
  - 1. Remove concrete or masonry to the depths shown on contract drawings or required by the Engineer.
  - 2. Cut off projecting reinforcement to a depth of at least 2 inches measured from the finished concrete surface. Where shown, reinforcement shall be bent across cut face and covered with new concrete.
  - 3. Thoroughly coat the roughened concrete surfaces by applying bonding compound in strict conformance with the manufacturer's instructions.
  - 4. Cement mortar shall be placed to a thickness slightly in excess of the finished surface and shall be steel-trowel-finished, flush with the adjacent surfaces.
  - 5. The color of new concrete in the exposed surfaces shall match the color of the existing adjoining concrete as closely as possible.
  - 6. Cement mortar shall consist of one part Portland cement and two parts of sand by volume.

Whenever new concrete is connected to existing concrete, the existing concrete shall be coated with bonding compound. Surface preparation, application and curing

shall be done in strict accordance with the manufacturer's directions.

# 8.7.7 <u>Cutting and Patching Opening for Pipe and Other Penetrations in Existing Concrete</u>

- A. The Contractor shall cut the existing concrete within the limits required, expose the existing reinforcement, and perform the work in such manner to prevent damage to the existing adjacent concrete and/or equipment. Unless otherwise permitted, line drilling is required. The exposed reinforcement shall be cleaned by wire brushing, then cut and bent to permit the installation and finally bent around the new pipe or thimble. Additional reinforcement shall be provided as shown on the Contract Drawings. When reinforcing is required to be welded to structural members, the work shall be done by approved and licensed welders using size and length of beads shown on the Contract Drawings.
- B. Coating of the existing concrete shall be as previously specified under Section 8.7.6. Non-shrinking grout shall be used for setting wall casting, sleeves and wherever called for into existing concrete.
- C. Dowels and anchors shall be set with an approved epoxy adhesive in strict accordance with manufacturer requirements.
- D. Openings shall be provided with keyed joints meeting the Engineer's approval prior to coating and patching.
- E. Where such work will be visible in the completed work, the adjacent surfaces shall be made to match as closely as possible.
- 8.10.5 Non-Shrink Grout Non-shrink, non-staining grout shall be "Euco N-S" by the Euclid Chemical Company, or "Masterflow 713" by Master Builders, or approved equal. Non-shrink grout shall be mixed and placed in strict accordance with the directions of the manufacturer.

Non-shrink grout shall be used for setting the structural items where as noted on the Contract Drawings.

# 8.12 <u>Concrete Sealer</u>

Concrete sealer shall be a one (1) part polyurethane sealer and dustproofer, "Eucothane" as manufactured by the Euclid Chemical Company, or approved equal.

Concrete sealer shall be applied on all equipment pads.

# 8.13 <u>Pigmented Admixture</u>

This section describes Pigmented Admixture for coloring Portland cement mixtures.

It shall be certified by the manufacturer that the Pigmented Admixture shall comply with the requirements of ACI 212.3R.-10, Section 6.1., as water-reducing admixtures, and that their water reducing components have been tested for compliance with ASTM C494 (Specification for Chemical Admixtures for Concrete). It shall be certified by the manufacturer that the Pigmented Admixture shall consist of pure synthetic mineral oxide only, and shall comply with ASTM C979. It shall also be certified by the manufacturer that the Pigmented Admixture shall be single-component admixture, complying with both ASTM C494 and ASTM C979, not as a combination of two or more additives or admixtures.

The pigmented Admixture shall produce a color equal to the standards on file at the office of the New York City Department of Transportation, Bureau of Highways, Division of Roadway Engineering, 40 Worth Street, New York, NY 10013 and The Landmarks Commission, 225 Broadway, 23<sup>rd</sup> Floor, New York, NY 10007. The color shall be approved by the Engineer.

The Pigmented Admixture manufacturer shall certify that when used at the recommended dosage, the pigmented admixture has no effect on or increases the compressive strength of the concrete by 5-10% when compared with a control batch of the same mix design and slump but without the Pigmented Admixture. Testing shall be done at 28 days after depositing, and shall be measured in pounds per square inch. The test results shall be an average of at least three (3) cores of cylinders per test.

Calcium Chloride shall not be used in the composition of the admixture nor in the composition of the concrete.

The Pigmented Admixture shall be packaged by the manufacturer in incremental amounts by weight for a single cubic yard of concrete, with the designated dosage clearly marked on each package.

Air entraining agent complying with ASTM C260 shall be used in combination with the Pigmented Admixture.

No other agents or admixtures shall be used with the Pigmented Admixture in the concrete, unless stated in writing by the manufacturer of the Pigmented Admixture to be of no consequence to the colorfastness of the concrete mixture.

The Pigmented Admixtures shall be mixed and delivered in accordance with ASTM Designation C94. The same type and brand of cement, source of sand and water/cement ration shall be maintained for each load of concrete used in the entire project.

The slump of the concrete shall remain consistent throughout the project as specified in Section 7.103.C.3.6. If held-back water is added at the job site, the concrete should be mixed at mixing speed for an additional five minutes after addition of the water and before depositing.

The Contractor shall furnish for approval and on site a concrete sample for each color specified using the Pigmented Admixture. The sample shall be at least 4' x 4' x 4" and shall be given the specified surface texture and cured with the methods specified for the concrete installation. The Contractor shall not order the admixture until the samples are approved by the Engineer. Once approved, the samples shall be used for assessing color conformance of pigmented concrete installed.

Water must not be sprinkled or otherwise added to the surface of the slab during finishing. Evaporation retardants may be fogsprayed provided they are not detrimental to the finished color of the concrete.

#### 8.14 Curing Membrane

If the concrete is pigmented as per this Section, the curing membrane shall be of the liquid-membrane forming type and shall be color-matched to the pigmented concrete. Additionally, the curing membrane shall be of a type recommended by the Pigmented Ad mixture manufacturer and shall conform to both ASTM C309 and all local, State, and Federal regulations concerning volatile organic compounds (VOC). Plastic sheeting,

burlap, paper, or other unspecified material shall not be used as a curing membrane.

Prior to making any filed samples and the placing of any colored concrete, the Contractor, concrete supplier, engineer-in-charge, and/or city representative shall meet and discuss methods of handling the colored concrete.

#### 10.4 Rubbed Finishes

The following shall be produced on concrete which has met the requirements of smooth form finish (Section 10.3.2).

- 10.4.1 Smooth Rubbed: Where this finish is required, it shall be applied no later than one day following form removal. No rubbing shall be done before the concrete is thoroughly hardened and the mortar used for patching is firmly set. A smooth, uniform surface shall be obtained by wetting the surface and rubbing it with a carborundum brick or other abrasive to eliminate irregularities until uniform color and texture are produced. Unless the nature of the irregularities requires it, the general surface of the concrete shall not be cut into. Corners and edges shall be slightly rounded by the use of the carborundum brick. Brush finishing or painting with grout or neat cement will not be permitted.
- 10.5.2 Smooth Rubbed Finish (Section 10.4.1) for all other exterior surfaces and interior vertical surfaces.
- 10.5.3 Smooth Form Finish (Section 10.3.2) for all other interior overhead surfaces exposed to public view and interior walls of tanks/culverts.
- 10.5.4 Grout Cleaned Finish (Section 10.4.2) for all exposed surfaces to be painted.

#### D. <u>Measurement and Payment</u>

The bid price shall constitute full compensation for all labor, materials, equipment and work incidental thereto, necessary to place concrete as part of the steel sheeting with concrete cap and block curb in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item

Pay Unit

BMP-7.103 Concrete

CY

The cost for all labor, materials and equipment required to place concrete as part of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001	Outfall #1 – Manor Road
51.61F002	Outfall #2 - Westmoreland Place
51.61F003	Outfall #3 – Knollwood Avenue
51.61F004	Outfall #4 – Bayview Avenue
51.61F005	Outfall #5 – West Drive

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#### 7.104 <u>STEEL REINFORCEMENT</u>

# A. <u>Description of Work</u>

1. The Contractor shall furnish and install all reinforcing steel as indicated on the Contract Drawings and specified herein.

#### 2. General Requirements

a. <u>General Specifications</u> - Steel reinforcement, electrically welded mesh and steel wire shall conform to the requirements of Chapter 5 - General Specification 11, - Concrete, November 1991 and the NYCDEP Standard Sewer Specifications, August 2009.

Metal chairs, ties or wires shall not extend to the concrete surfaces. Approved form ties shall provide deep recesses which shall be carefully filled with grout after forms are stripped.

b. <u>Shop Drawings</u> - The Contractor shall submit to the Engineer for approval, shop drawings and other material required to substantiate conformance with the requirements set forth on the Contract Drawings and the Specifications. Shop drawings shall include, but not be limited to the requirements of General Specification 11 - Concrete.

Detailed placing and shop fabricating drawings, prepared in accordance with ACI 315 shall be furnished for all concrete reinforcement. These drawings shall be made to such a scale as to clearly show construction joint locations, openings, the arrangement, spacing and splicing of the bars. No materials shall be cut or fabricated until related drawings have been approved by the Engineer.

- c. <u>Submittals</u> The Contractor shall also submit the following:
  - 1) Mill test certificates.
  - 2) A description and sample of the reinforcing steel manufacturer's marking pattern.
  - 3) Request to use mechanical couplers along with manufacturer's literature on mechanical couplers

with instructions for installation, and certified test reports on the couplers capacity.

# B. <u>Execution</u>

- 1. <u>General Information</u> The Contractor shall install under this Section of the Detailed Specifications all steel reinforcement required for a complete installation for the structural work of this Contract. Bar sizes shall be as indicated on the Contract Drawings except as otherwise ordered or approved by the Engineer.
- 2. <u>Materials and Installation</u> The steel reinforcement shall conform to the requirements as hereinbefore specified and to General Specification 11 Concrete, Chapter 5 Reinforcement. Reinforcing bars shall be deformed new billet steel bars conforming to ASTM A615, Grade 60. Wire mesh reinforcement shall conform to ASTM A185.
- 3. Welding Wherever welding of reinforcing rods to other reinforcement or structural shapes is indicated, the welding of reinforcing steel shall conform to General Specification 11 Concrete, Chapter 5.
- 4. <u>Coiled Reinforcing</u> Shall not be permitted.
- 5. <u>Mechanical Couplers</u> Hot-forged sleeve type couplers shall not be used.
- 6. <u>Dowel Adhesive System</u> Where post installed dowels are required they will be shown on the Drawings, reinforcing bars anchored into hardened concrete with a dowel adhesive system shall use a two-component adhesive mix which shall be injected with a static mixing nozzle following manufacturer's instructions. Thoroughly clean drill holes of all debris and drill dust with wire brush prior to installation of adhesive and reinforcing bar. The embedment depth of the bar shall be per manufacturer's recommendations, so as to provide a minimum allowable bond strength that is equal to 125 percent of the yield strength of the bar, unless noted otherwise on the Drawings. Engineer's approval is required for use of this system in locations other than those shown on the Drawings.

# 7. <u>Delivery, Storage and Handling</u>

a. All reinforcing shall be neatly bundled and tagged for placement when delivered to the job site. Bundles shall be properly identified for coordination with mill test reports.

- b. Reinforcing steel shall be stored above ground on platforms or other supports and shall be protected from the weather at all times by suitable covering. It shall be stored in an orderly manner and plainly marked to facilitate identification.
- c. Reinforcing steel shall at all times be protected from conditions conducive to corrosion until concrete is placed around it.

#### 8. Placing

- a. Reinforcing steel shall be accurately positioned as shown on the Drawings and shall be supported and wired together to prevent displacement, using annealed iron wire ties or suitable clips at intersections. All reinforcing steel shall be supported by concrete, plastic or metal supports, spacers or metal hangers which are strong and rigid enough to prevent any displacement of the reinforcing steel. Where concrete is to be placed on the ground, supporting concrete blocks (or dobies) shall be used in sufficient numbers to support the reinforcing bars without settlement. In no case shall concrete block supports be continuous.
- b. The portions of all accessories in contact with the formwork shall be made of plastic or steel coated with a 1/8 inch minimum thickness of plastic which extends at least 1/2 inch from the concrete surface. Plastic shall be gray in color.
- c. Tie wires shall be bent away from the forms in order to provide the specified concrete coverage.
- d. Reinforcing bars additional to those shown on the Drawings, which may be found necessary or desirable by the Contractor for the purpose of securing reinforcing in position, shall be provided by the Contractor at no additional cost to the City.
- e. Reinforcing placing, spacing, and protection tolerances shall be within the limits specified in ACI 318 except where in conflict with the Building Code, unless otherwise specified.
- f. Reinforcing bars may be moved within one bar diameter as necessary to avoid interference with other concrete

reinforcing, conduits, or embedded items. If bars are moved more than one bar diameter, or enough to exceed placing tolerances, the resulting arrangement of bars shall be as acceptable to the Engineer.

- g. Welded wire fabric shall be supported on slab bolsters spaced not less than 30 inches on centers, extending continuously across the entire width of the reinforcing mat and supporting the reinforcing mat in the plane shown on the Drawings.
- h. Bars with kinks or bends not shown on the Drawings shall not be used.

### 9. Splicing

- a. The length of lap for reinforcing bars, unless otherwise shown on the Drawings shall be in accordance with ACI 318 for a class B splice.
- b. Laps of welded wire fabric shall be in accordance with ACI 318. Adjoining sheets shall be securely tied together with No. 14 tie wire, one tie for each 2 running feet. Wires shall be staggered and tied in such a manner that they cannot slip.
- c. Mechanical splices shall be used only where shown on the drawings or when approved by the Engineer.
- d. Couplers which are located at a joint face shall be a type which can be set either flush or recessed from the face as shown on the Drawings. The couplers shall be sealed during concrete placement to completely eliminate concrete or cement paste from entering. After the concrete is placed, couplers intended for future connections shall be plugged and sealed to prevent any contact with water or other corrosive materials. Threaded couplers shall be plugged with plastic plugs which have an O-ring seal.

# C. <u>No Separate Payment</u>

The cost for all labor, materials and equipment required to place steel reinforcement as part of the steel sheeting with concrete cap and block curb shall be deemed included in the price bid under detailed specifications for concrete Section 7.103, payment item BMP-7.103.

The cost for all labor, materials and equipment required to place steel reinforcement as part of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001 Outfall #1 – Manor Road	
51.61F002 Outfall #2 – Westmoreland Place	ce
51.61F003 Outfall #3 – Knollwood Avenue	е
51.61F004 Outfall #4 – Bayview Avenue	
51.61F005 Outfall #5 – West Drive	

#### 7.105 WELDING

# A. <u>Description of Work</u>

- 1. The Contractor shall perform all welding as indicated on the Contract Drawings and as specified herein.
- B. General Requirements All welding shall be in accordance with specified standards as modified or supplemented by these Specifications. No welding shall be done when the base-metal temperature is lower than 32 degrees Fahrenheit. The subcontractor shall be responsible for the quality of the welding and shall set up and record procedures for welding all metals included in the work, Welding shall not be started until procedure, welders, and welding operators have been qualified by tests and copies of all records and reports submitted for approval. Costs of such testing shall be borne by the Contractor. Each weld shown or indicated on the Contract Drawings shall be made as specified on the approved procedure specifications provided to cover each type of weld. Welding of any special steel shall adhere, without deviation, to the written instructions of the steel manufacturer.
  - 1. Welded Construction Welded construction shall be used only where indicated on the Contract Drawings and approved shop drawings. The AWS Specification D1.1 (latest edition) Structural Welding Code or AWS D1.4 (latest edition) Structural Welding Code Reinforcing Steel, as applicable and other requirements of this Section shall apply to the welded joints. Unless otherwise specified, welding shall be by automatic submerged arc or semi-automatic submerged arc,
  - 2. <u>Test Specimens</u> Test specimens shall be prepared by the Contractor for each type of welded joint as designated in paragraph entitled Procedure Qualification. Destructive tests of specimens for procedure and welder qualifications shall be conducted in accordance with AWS D1.1, Section 4, Qualifications, and the requirements specified herein.
  - 3. Groove Welds All groove welds shall be 100 percent complete penetration welds as defined in AWS D1.1 or shown in AWS D1.4 for reinforcing steel, regardless of whether a backup plate is shown, or whether the supplementary backing weld or melt-through symbol is included, in each groove-weld symbol shown, unless partial penetration is included in the weld symbol.

# <u>DIVISION VII - DETAILED SPECIFICATIONS</u> <u>Welding Procedure</u>

C.

- 1. General Information - Welding procedures and procedure qualification tests shall be required for all welding covered by this specification to demonstrate that the combination of process, material, and technique produces the desired welds. These procedures, when qualified, become the welding procedure specification which must be followed in making weldments on materials within ranges shown in the Contract Drawings (and Specifications), and provide a means of assuring reproducible results and quality control. Procedure specifications and procedure qualification test results shall be kept by the Contractor and shall be available for examination by the Engineer. Five copies of the procedure specifications and test results shall be submitted for approval. Welding procedure specifications and tests shall be individually identified or completed on the shop details and erection drawings. Welding shall not be performed on any contract item before approval of procedure specification and qualification testing by the Engineer.
  - a. <u>Welding Procedure Specification</u> A separate Procedure Specification shall be prepared for each type of weld which varies in accordance with the definition of essential changes as listed in AWS D1.1, Section 5.
  - b. <u>Procedure Qualification</u> Each type of weld made by a specific process shall be qualified by tests as specified in AWS D1.1 or as specified herein for reinforcing steel.
  - c. <u>Procedure Specification Requalification</u> When an essential variable, as specified in AWS D1.1, is changed, the procedure must be requalified.
  - d. <u>Dissimilar Steels</u> Where dissimilar steels are welded together, the procedure shall be the same as for the lower-strength steel.
  - e. Groove Welds All groove welds shall be 100 percent complete penetration welds as defined in AWS D1.1 or shown in AWS D1.4 for reinforcing steel, regardless of whether a backup plate is shown, or whether the supplementary backing weld or melt-through symbol is included, in each groove-weld symbol shown, unless partial penetration is included in the weld symbol.
  - f. Welded Studs Gun welded studs shall conform with the requirements of AWS D1.1, Section 7.

g. <u>Electrodes</u> - Electrodes for structural steel welding shall conform with AWS D1.1, Section 4, as applicable.

# D. <u>Performance Certification of Welders And Welding Operators</u>

- 1. <u>General Information</u> Each welder and welding operator assigned to work on this Contract shall be certified in conformance with AWS D1.1, the requirements of this Specification. Welders shall be New York City certified, and all welding shall be done in conformity with the New York City Building Code.
  - a. Welder's Certificates Upon completion of the applicable qualification tests, each welder and welding operator shall be provided with a certificate by the Contractor. The certificate shall state the type of welding and positions for which he is qualified, the code under which he is qualified, and the firm or individual certifying the qualification tests. The certificate shall be kept on file at the job site by the Contractor and shall be made available for examination and approval by the Engineer. The certificate will remain in effect except when requalification of the welder or welding operator is required as specified in AWS D1.1 and the requirements of this Specification.
  - b. <u>Welder's Identification</u> The Contractor shall assign each welder identifying number, letter, or symbol which shall be used by the welder to identify all welds made by him. For identification, the welder shall lightly stamp his symbol adjacent to the weld by means of a metal stamp.
  - c. Welder's Record The Contractor shall maintain a record of all welders and welding operators employed on the Contract showing the date and results of tests and the identification mark assigned to each welder. These records shall be certified by the Contractor and made accessible to authorized personnel. Copies of the record shall be furnished to the Engineer.
  - d. <u>Technique</u> Technique shall conform to AWS Specification D1.1, Section 4, entitled Technique, and the requirements of this Specification.

# E. Supervision

All shop and field welding shall be under the immediate supervision of a representative of a standard testing agency or an approved inspection agency reporting directly to, and under the control of, the Department of Design and Construction. The Contractor shall submit the name of such agency to the Commissioner for approval before starting work. The costs of all welding inspections and tests shall be borne by the Contractor.

# F. <u>Inspection and Tests During Construction</u>

The Engineer will make periodic checks of each welder to determine that welds are being made as specified in the approved procedure specifications. Welding speed may be estimated. All welds will receive 100 percent visual inspection by the Engineer to determine weld size and profile, surface cracks, overlap, and undercut. The Engineer reserves the right to perform any test on any weld, including liquid penetrant, magnetic particle, radiographic, and ultrasonic.

# G. <u>Acceptance Requirements</u>

- 1. Welds, other than stud welds, are acceptable if inspection indicates conformance within the following limitations:
  - a. <u>Cracks</u> All welding exhibiting any cracks, either in the weld metal or the parent metal, will be rejected.
  - b. <u>Undercut</u> Undercut shall not be more than 1/32 inch deep.
  - c. <u>Convexity or Reinforcement</u> Convexity or reinforcement of a weld face shall not exceed the limits shown in AWS D1.1, and there shall be no overlap.
  - d. <u>Fusion</u> Incomplete fusion or lack of penetration will not be allowed.
  - e. <u>Small Inclusions</u> Slag inclusions, porosity, and other fusion defects less than 1/16 inch in greatest dimension will be allowed if well dispersed and the sum of the greatest dimensions in any linear inch of welded joint does not exceed 3/8 inch.
  - f. <u>Large Inclusions</u> Slag inclusions, porosity, and other fusion defects 1/16 inch or larger in greatest dimension will be allowed providing such defects do not exceed the limits specified in AWS D1.1.

# <u>DIVISION VII - DETAILED SPECIFICATIONS</u> Repair of Defective Welds

H.

- 1. In lieu of rejection of an entire piece or member containing welding which is unsatisfactory or which indicates inferior workmanship, the corrective measures listed hereunder may be permitted by the Engineer whose specific approval shall be obtained for making each correction. Corrective measures shall be made at the Contractor's expense and to the satisfaction of the Engineer and/or an acceptable independent testing lab
- 2. <u>Defective or Unsound Welds or Base Metal</u> Defective or unsound welds or base metal shall be corrected either by removing and replacing the entire welds, or as follows:
  - a. <u>Convexity and Overlap</u> Excessive convexity and overlap, defined in paragraph Acceptance Requirements, shall be reduced by removal of excess weld metal.
  - b. <u>Concavity</u> Any concavity of weld, crater, undersize welds, undercutting: clean and deposit additional weld metal.
  - c. <u>Discontinuities</u> Excessive weld porosity, slag, inclusions, defined in the paragraph entitled Acceptance Requirements, and incomplete fusion: remove defective portions and reweld.
  - d. <u>Cracks</u> Cracks in weld or base metal: remove crack throughout its length, including sound weld metal 2 inches beyond each end of the crack; follow by the required rewelding.
- 3. Removal The removal of weld metal or portions of the base metal shall be done by chipping, grinding, oxygen cutting, oxygen gouging, or air carbon-arc and in such a manner that the remaining weld metal or base metal is not nicked or undercut. Defective portions of the weld shall be removed without substantial removal of the base metal.
- 4. <u>Additional Metal</u> Additional weld metal shall be deposited using an electrode smaller than that used for making the original weld, and not more than 5/32 inch diameter. The surface shall be cleaned thoroughly before welding.
  - 5. <u>Inaccessibility</u> Where work performed subsequent to the making of a deficient weld has rendered the weld inaccessible or has caused new conditions which would make the correction of the

deficiency dangerous or ineffectual, the original conditions shall be restored by removing the welds or members, or both, before making the corrections, or the deficiency shall be compensated for by additional work done according to an approved revised design.

- 6. <u>Caulking</u> Caulking of welds shall not be permitted.
- 7. Improper Fit Improperly fitted parts may be cut apart and rewelded. Members distorted by welding shall be straightened by mechanical means or by carefully supervised application of a limited amount of localized heat. The temperature of heated areas shall not exceed 1,200 degrees F (a dull red color). Temperature shall be carefully measured with temperature indicating crayons during the heating operation. Parts to be heated for straightening shall be substantially free of stress and from external forces, except those stresses resulting from mechanical means used in conjunction with the application of heat.
- 8. <u>Peening</u> No peening shall be done on the root or surface layers of a weld. Peening of intermediate weld layers may be used only if authorized by the Engineer and directed by him. Care shall be exercised to prevent overpeening which may cause overlapping, scaling, cracking, flaking, or excessive cold working of weld and base metal.

# I. <u>No Separate Payment</u>

The cost for all labor, materials and equipment required for welding as part of the steel sheeting with concrete cap and block curb shall be deemed included in the price bid under specification for concrete Section 7.103, payment item BMP-7.103

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7.106 <u>OUTLET STILLING BASIN</u>

NO TEXT ON THIS PAGE

# 7.107-B RIP-RAP STONE AND ANGULAR NATURAL FIELD STONE

# A. <u>Description of Work</u>

Under this item, the Contractor shall perform all work necessary to install rip-rap stone or angular natural field stone where directed by the Engineer, to protect the soil surface from erosive forces and/or improve the stability of soil slopes as well as water feature bottoms that are subject to seepage or have poor soil structure.

In general, rip-rap stone shall be utilized for both temporary and permanent constructed features such as erosion control features, channel side slopes and bottoms, grade sills, slope drains, grade stabilization structures, storm drains, and cut and fill slopes subject to seepage, erosion or weathering, particularly where conditions prohibit the establishment of vegetation.

Angular natural field stone shall be utilized to stabilize, reinforce or restore naturally occurring features as well as features that are intended to appear natural, such as stream side slopes, banks and bottoms, wetlands, shorelines subject to erosion, culvert inlets and outlets, outlet stilling basins and natural upland side slopes.

Rip-rap stone may be substituted with angular natural field stone as directed by the Engineer. The Contractor may use field stones excavated in the project site, contingent upon the approval of the Engineer.

#### B. Materials Used

#### Rip-Rap Stones/Angular Natural Field Stones

Stones shall be a well-graded mixture with 50% by weight larger than the specified design size. The diameter of the largest stone size in such a mixture shall be 1.5 times the d50 size with smaller sizes grading down to 1 inch. The stone size installed shall be as directed by the Engineer and as shown on the Contract Drawings.

The minimum layer thickness shall be 1.5 times the maximum stone diameter, but in no case less than 6 inches or as specified on the Contract Drawings.

Stones for rip-rap shall be hard, durable quarry materials. Stones used for natural field stones shall be hard, durable field materials and shall be dark in coloration. They shall be angular and not subject to breaking down when exposed to water or weathering. The specific gravity shall be at least 2.5.

Stones shall be free of decomposed stone, clay rock dust and other objectionable material. Existing stone walls and broken concrete or recycled stone shall not be used as stones. Broken concrete is not acceptable.

# C. <u>Construction Methods</u>

# Subgrade Preparation

Prepare the subgrade for stones to the required lines and grades shown on the plans. Compact any fill required in the subgrade to a density approximating that of the undisturbed material or overfill depressions with stones. Remove brush, trees, stumps and other objectionable material. Cut the subgrade sufficiently deep so that the finished grade of the stones will be at the elevation of the surrounding area. Channels shall be excavated sufficiently to allow placement of the stones in a manner such that the finished inside dimensions and grade of the stones meet design specifications.

#### Rip-Rap/Angular Natural Field Stone Placement

Placement of the stones shall follow immediately after placement of the filter. Place stones so that it forms a dense, well-graded mass of stone with a minimum of voids. The desired distribution of stones throughout the mass shall be obtained by selective loading at the quarry and controlled dumping during final placement. Place stones to its full thickness in one operation. Do not place stones by dumping through chutes or other methods that cause segregation of stone sizes. Be careful not to dislodge the underlying base or filer when placing the stones.

The toe of the stones shall be keyed into a stable foundation at its base as shown on the Contract Drawings. The toe shall be excavated to a depth of 2.0 feet. The design thickness of the stones shall extend a minimum of 3 feet horizontally from the slope. The finished slope shall be free of pockets of some stone or clusters of large stones. Hand placing will be required to achieve proper distribution of stone sizes to produce a relatively smooth, uniform surface. The finished grade of the stones shall blend with the surrounding area.

# D. Measurement and Payment

The quantity to be measured for payment under this Section shall be the total number of cubic yards of approved stones, measured in stockpiles, containers and/or vehicles and placed as directed by the Engineer.

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# **DIVISION VII - DETAILED SPECIFICATIONS**

The bid price shall constitute full compensation for all labor, materials, equipment and work incidental thereto, necessary to furnish, place and incorporate and all other work incidental thereto, in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item Pay Unit

BMP-7.107-B Rip-Rap and Angular Natural Field Stone

The cost for all labor, materials and equipment required to place rip rap as part of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001	Outfall #1 – Manor Road
51.61F002	Outfall #2 – Westmoreland Place
51.61F003	Outfall #3 – Knollwood Avenue
51.61F004	Outfall #4 – Bayview Avenue
51.61F005	Outfall #5 – West Drive

\* \* \* \* \*

7.108 <u>ALUMINUM GRATING</u>

NO TEXT ON THIS PAGE

#### 7.109 <u>GEOTEXTILE FABRIC</u>

#### A. <u>Description of Work</u>

Under this item, the Contractor shall furnish all equipment and perform all work necessary to place Geotextiles as indicated in the Contract Drawings and specifications and as directed by the Engineer.

#### B. <u>References</u>

NYSDOT Standard Specifications Section 207 – Geosynthetics, latest edition.

AASHTO M288 – Standard Specification for Geotextile Specification for Highway Applications, latest edition

## C. <u>Materials</u>

- 1. Drainage Geotextiles, where shown on the Drawings, shall comply with the production, quality control testing, labeling, storage and delivery requirements of AASHTO M288. Drainage Geotextile shall be classified as Drainage Geotextile on the NYSDOT Materials Bureau Approved List
- 2. Separation Geotextile, where shown on the Drawings, shall comply with the production, quality control testing, labeling, storage and delivery requirements of AASHTO M288. Separator Geotextile shall be classified as Separation Geotextile on the NYSDOT Materials Bureau Approved List.

### D. <u>Construction Methods</u>

- 1. It is the intent of these Specifications that Geotextiles be placed with the roll direction parallel to the direction of projected loading, where applicable, as determined by the Engineer unless shown otherwise on the Drawings.
- 2. Geotextiles shall be placed smooth and free of wrinkles determined to be excessive by the Engineer. When the Geotextiles are placed on slopes, the upslope fabric portion shall be lapped such that it is the upper or exposed Geotextile. Geotextile shall be off limits to vehicle or construction traffic.
- 3. Geotextiles shall be temporarily secured in a manner acceptable to the Engineer prior to placement of overlying materials. The Contractor shall be responsible for repair or replacement of any

Geotextile damaged due to the effects of wind, water or sediment during construction. Filter or Separator Geotextile fouled or "blinded" by mud, sediment or debris during construction shall be removed and replaced by the Contractor at Contractor cost if, in the opinion of the Engineer, filter or separation function of the Geotextile is compromised.

The minimum overlap of adjacent rolls of Geotextiles shall be as follows:

	OVERLAP OF	TRANSVERSE
	ADJACENT	END
GEOTEXTILE TYPE/	ROLLS <sup>(1)</sup>	OVERLAP
APPLICATION	(INCHES)	(INCHES)
Drainage Geotextile	6 min	12 min
Separation-Roadway Applications	12 min	24 min
Separation-Slope Protection	18 min	24 min

4. The Contractor shall not cause damage Geotextiles during placement or compaction of overlying materials. During placement of aggregate over any Geotextile, drop height shall be limited to 3-feet for aggregate less than 4-inches in diameter and to less than 1-foot for rip-rap or any aggregate greater than 4-inches in diameter. Construction materials or methods may have to be modified to prevent damage to Geotextiles.

#### E. Measurement and Payment

The quantity to be measured for payment under this Section shall be the number of square feet of surface area on which Geotextile Fabric has been installed in accordance with the plans and specifications and directions of the Engineer and in accordance with NYSDOT Specification Section 207-4.

Payment will be made under:

Item No.	Item	Pay Unit
Item 207.21	Geotextile Separation	SY
Item 207.22	Geotextile Drainage	SY

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#### 7.109A GEOGRID

### A. <u>Description of Work</u>

Under this item, the Contractor shall furnish all equipment and perform all work necessary to place Geogrid as indicated in the Contract Drawings and specifications and as directed by the Engineer.

#### B. References

The NYSDOT Standard Specifications Section 737B - Geosynthetics, latest edition.

American Society for Testing and Materials (ASTM):

ASTM D6637 - 10 Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method

Geosynthetics Research Institute (GRI)

GRI Standard Practice GG4(a) - Determination of the Long-Term Design Strength of Stiff Geogrids

GRI Standard Practice GG4(b) - Determination of the Long-Term Design Strength of Flexible Geogrids

## C. <u>Materials</u>

- 1. Geogrid shall be defined as a geosynthetic used for reinforcement and is formed by a regular network of tensile elements with apertures of sufficient size to allow penetration and interlocking with surrounding soils.
- 2. The Geogrid shall be manufactured from polyethylene or high tenacity polyester with PVC coating as outlined in NYSDOT Section 737B. The largest Geogrid roll width allowed shall be 25 feet.
- 3. Geogrid properties shall conform to the minimum properties shown on Table 1 Minimum Required Geogrid Properties. The Contractor shall be responsible for timely submittals of all confirmation test data for Geogrid.

#### TABLE 1 – MINIMUM REQUIRED GEOGRID PROPERTIES

Geogrid Property	Minimum Value
Base Polymer	High Tenacity Polyester or Polyethylene
Construction	Woven, Knitted or Extruded
Aperture Size (In.)	0.5
Wide Width Tensile Strength* (lb/ft) at Break - ASTM D6637	3500
Long Term Allowable Design Load* (LTADL)(lb/ft) GRI	
GG4	1200

<sup>\*</sup> Tensile Property in Roll Direction

## D. <u>Submittals</u>

- 1. Prior to shipping to the site, the Contractor shall submit to the Engineer two copies of a mill certificate or affidavit signed by a legally authorized official of the Geogrid Manufacturer for each type of Geogrid. The Supplier shall also submit three Geogrid samples, 1 square yard each, with the mill certificate for the Geogrid. The mill certificate or affidavit shall attest that the Geogrid meets the chemical, physical and manufacturing requirements stated in the specifications. The samples shall be labeled with the manufacturer's roll direction, date of sampling, project number, manufacturer and product name.
- 2. The Contractor shall provide a panel layout plan showing the location of all Geogrid panels, overlaps and connections, at least two weeks prior to installation.
- 3. The Engineer shall be furnished copies of the delivery tickets or other approved receipts as evidence for materials received that will be incorporated into construction.

# E. <u>Delivery, Storage, and Handling</u>

1. During periods of shipment and storage, all Geogrid shall be protected from direct sunlight, temperature greater than 140°F, water, mud, dirt, dust, and debris. To the extent possible, the

Geogrid shall be maintained wrapped in heavy-duty protective covering, if provided by the manufacturer, until use.

- 2. Unloading and storage of Geogrid shall be the responsibility of the Contractor.
- 3. Geogrid that is damaged during shipping, storage or installation shall be rejected and replaced at Contractor expense.

## F. <u>Installation</u>

### 1. Subgrade preparation

- a. Subgrade preparation shall be completed as directed by the Engineer in accordance with the Geogrid application.
- b. For Geogrid placement in roadway reinforcement, reinforced slopes and embankments, the exposed subgrade shall be proofrolled as outlined in Section 7.308A, Fill.
- c. Geogrid subgrade shall be maintained at the lines and grades shown on the Drawings. Any structural fill placed to provide Geogrid subgrade or to replace unsuitable excavated material shall conform to the requirements outlined in Section 7.308A, Road Repair Earthwork of these Specifications.
- d. The Contractor shall provide all labor and materials necessary to protect the subgrade surface from erosion. No Geogrid shall be installed until the subgrade has been inspected and approved by the Engineer.

## 2. Geogrid Installation

- a. Geogrid shall be placed to the lines and grades shown on the Drawings. At the time of installation, the Geogrid shall be rejected by the Engineer if it has defects, tears or other damage.
- b. Geogrid installation, including subgrade preparation, Geogrid placement, overlap at edges and attachment to existing Geogrid shall be in accordance with the Drawings and these Specifications.
- c. Any Geogrid panel that is damaged after installation shall be repaired or replaced as directed by the Engineer.

- d. Where two orthogonal layers of Geogrid are indicated on the Drawings, the initial Geogrid layer shall be placed in a direction perpendicular to the axis of the slope or aligned in the direction of maximum anticipated loading. The overlying layer shall be placed in a direction perpendicular to the initial Geogrid layer.
- e. Geogrid shall only be placed over subgrade that is at the proper density, has a relatively smooth surface, is free from standing water and approved by the Engineer. Geogrid shall not be installed over frozen subgrade. Geogrid shall be nominally pre-tensioned during installation using temporary stakes, pins or other approved methods. Geogrid shall be installed to maintain contact with the subgrade surface.
- f. Adjacent Geogrid panels shall be overlapped a minimum of 18 inches. In the cross roll (cross machine) direction, where approved in advance by the Engineer, adjacent panels shall be overlapped a minimum of 2 feet and connected in such a fashion that the full required tensile strength of the Geogrid is transferred across the joint.
- g. The exposed Geogrid surface shall be off limits to construction vehicles. Overlying backfill shall be backdumped and spread in a manner that minimizes development of folds or wrinkles or otherwise damages the geosynthetic reinforcement. A minimum of 12 inches of overlying fill shall be in place prior to operation of construction equipment.

#### G. Measurement and Payment

The quantity to be measured for payment under this Section shall be the number of square feet of surface area on which Geogrid has been installed, excluding overlaps and repair areas in accordance with the plans and specifications and directions of the Engineer.

The bid price shall include the costs for all labor, material, equipment and incidental work in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item

Pay Unit

BMP-7.109A Geogrid

SF

## 7.110 <u>SHEETING AND BRACING</u>

A. <u>Description of Work</u> - The Contractor shall furnish and install sheeting together with all bracings as required for outfall construction and excavations in accordance with the provisions contained herein.

The Contractor shall furnish and install permanent sheeting as required for the roadway repair in accordance with the provisions contained herein.

## B. <u>General Requirements</u>

- 1. <u>Shop Drawings</u> The Contractor shall submit to the Engineer for approval, shop drawings and other material required to substantiate conformance with the requirements set forth on the Contract Drawings and these Specifications.
- 2. <u>Calculations</u> The Contractor shall submit to the Engineer for approval design calculations of his proposed sheeting and bracing plan. Such calculations shall incorporate all applicable loads as per the New York City Building Code and shall be signed and sealed by a New York State licensed professional engineer. The Contractor shall include with the calculations his detailed plan of operation as regards to the installation of the sheeting, method of excavation and removal of sheeting for the review by the Engineer.
- 3. The Contractor shall have at least (3) projects similar in scope and type within the last five years in driving sheet piles.
- 4. The Contractor shall be responsible for the adequacy of all sheeting and bracing and for all damage resulting from sheeting and bracing failure or from placing, maintaining and removing it.

# C. <u>Construction Sheeting</u>

- 1. <u>General</u> Sheeting required by the Contractor for sheeting excavations, etc. shall be designed and submitted by the Contractor for the Engineer's review. Sheeting shall be removed at the conclusion of construction unless otherwise indicated or approved by the Engineer. Sheeting shall be either steel or wood sheeting as specified herein below.
- 2. <u>Steel Sheeting</u> Sheeting shall conform to the requirements of ASTM A328. Sheet piles shall be new and shall be of the continuous interlock type of the section, length and weight shown on the Contract Drawings.

- 3. Structural steel and other accessories such as walers, braces, tierod assemblies, plates and similar members used with sheet piling shall conform to ASTM A36.
- 4. <u>Fastening</u> Bolts, nuts and washers shall conform to the requirements of ASTM A325 or A307. Connections shall be provided by the Contractor in accordance with AISC Specification for the Design, Fabrication and Erection of Structural Steel. Connections shall be subject to the Engineer's approval. Welding shall conform to the requirements of Specification 7.105, Welding.
- 5. Wood Sheeting Timber of wood sheeting shall be Douglas Fir standard grade or Southern Yellow Pine No. 25R with extreme fiber unit bending stress not less than 1200 psi. All lagging shall be full size lumber (undressed), and shall be sound, free from shakes, large knots, and other defects which might impair its strength. Used timber may be furnished if equal in strength to that of corresponding new timber. Where conditions require tight sheeting to prevent loss of ground, tongue and groove wood sheeting shall be used.
- 6. <u>Sheeting to be Left in Place</u> Construction sheeting to be left in place shall be indicated on the drawings. The Contractor shall cut off piling 2 ft. below ground surface or to the grades shown on the Contract Drawings.
- 7. <u>Bracing and Anchorage</u> Bracing and anchorage shall be shown on the shop drawings.
- 8. <u>Installation</u> The Contractor shall examine the areas and conditions under which steel sheet piling is to be installed. The Contractor shall notify the Engineer in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to the Engineer.

# D. <u>Permanent Sheeting</u>

The Contractor shall furnish and install permanent sheeting as required for the roadway repair in accordance with the Contract Drawings and NYSDOT Standard Specifications Section 552 – Externally Stabilized Cut Structures, latest edition.

## E. <u>Measurement and Payment</u>

All costs for the installation of sheeting and bracing performed in conjunction with the construction and installation of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001	Outfall #1 – Manor Road
51.61F002	Outfall #2 – Westmoreland Place
51.61F003	Outfall #3 – Knollwood Avenue
51.61F004	Outfall #4 – Bayview Avenue
51.61F005	Outfall #5 – West Drive

All costs for the installation of sheeting and bracing performed in conjunction with the construction and installation of the steel sheeting with concrete cap and block curb will be included under the unit bid price for Permanent Steel Sheeting, payment item 552.11 and Concrete, payment item BMP-7.103.

The quantity to be measured for payment under this Section shall be the number of square feet of Permanent Steel Sheeting installed in accordance with the plans and specifications and directions of the Engineer and in accordance with NYSDOT Specification Section 552-4.

Payment will be made under:

Item No.	Item	Pay Unit
552.11	Permanent Steel Sheeting	SF

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#### MORTARED STONE WORK

## 7.201 WORK INCLUDED

Under this item, the Contractor shall furnish all labor, materials and equipment for completing the construction of mortared stone wall as specified herein and as shown on the Contract Drawings, including all incidental and appurtenant work required for a complete job.

The work shall include items of work specified under the following sections:

Section Number	<u>Title</u>
7.202	Masonry Mortar
7.203	Masonry Accessories
7.204	PA Colonial Field Stone

\* \* \* \* \*

#### 7.202 <u>MASONRY MORTAR</u>

## A. <u>Description of Work</u>

1. <u>Description</u>. Furnish all labor and material necessary for the preparation and placing of all mortar for masonry and stone work.

## 2. General Requirements.

- a. <u>General Specifications</u>. Masonry mortar and grout materials shall comply with the requirements of this Section, except where otherwise shown or specified. Where no description has been specified for any material required, the current Reference Standard RS 10-1, Masonry City of New York Building Code, shall apply. Concrete materials shall conform to the requirements of General Specification 11 Concrete.
- b. <u>Code</u>. The use of masonry cement mortar, as approved by the Board of Standards and Appeals, is optional. Masonry cement mortar shall fulfill the requirements of the Administrative Code of the City of NY and it shall be a mix of one part cementitious material to two-and-three-fourths parts of sand by volume. It shall be furnished in sacks containing one cubic foot each, and shall be marked with the weight.
- c. <u>Test.</u> Masonry mortar samples shall be provided by the Contractor upon request from the Engineer. Samples will be subject to tests in conformance with ASTM C270.
- d. <u>Job mock-up</u>. Sample panels will be constructed at the site. At that time, adjust mortar samples to achieve desired colors at the discretion of the Engineer.

### B. Materials

- 1. <u>Cement</u>. Unless otherwise qualified, the term "Portland cement" whenever used in connection with masonry work shall conform to the requirements of General Specification 11 Concrete. Masonry cement shall fulfill the requirements of ASTM C91.
- 2. White Portland Cement. White Portland cement shall be approved domestic product containing no ingredient that will stain other materials with which the cement comes in contact. It shall not

- 2. contain more than 0.03% by weight of soluble alkali and shall fulfill the requirements of ASTM C150.
- 3. <u>Lime Putty</u>. Lime putty shall be made from hydrated lime except that quicklime may be used when adequate time and facilities are available for aging. Suitable precautions shall be taken to protect the putty from exposure to the sun and to prevent excessive evaporation when stored.
  - a. Hydrated lime shall be mixed with the amount of water called for in the printed directions of the manufacturer to form a putty and shall be allowed to stand for at least 24 hours before using. The hydrated lime may be sifted into the water, or the putty may be screened or punched through a sieve, or treated in any other manner, so as to obtain a smooth lump-free putty. Hydrated lime shall fulfill the requirements of ASTM C6.
  - b. Quicklime (pulverized) shall be slaked in suitable large batches, with the amount of water called for in the printed directions of the manufacturer, to form a thick cream. Lime shall be sifted into water. During cool or cold weather, precautions shall be taken to maintain the heat and prevent premature cooling during the process of hydration. The slaked quicklime shall be passed through a No. 10 sieve and stored for at least 72 hours before using. When the use of lump quicklime, slaked on the job, in lieu of pulverized quicklime is specifically approved for plastering, the cooling and aging period shall be not less than 14 days. Quicklime shall fulfill the requirements of ASTM C5.
  - c. Pressure hydrated lime shall be used as recommended by the manufacturer and shall conform to the requirements of ASTM C206.
- 4. <u>Fine Aggregate</u>. Provide natural sand that conforms to the requirements of the following:

ASTM C144, except for joints less than 1/4 inch use aggregate graded with 100 percent passing the No. 16 sieve.

White Mortar Aggregates: Provide natural white sand or ground white stone for Portland cement-lime mortars, as required for compatibility with mortar colors selected by Engineer.

Colored Mortar Aggregates: Provide ground marble, granite or other sound stone, as required to match the sample approved by

Engineer for Portland cement-lime mortars.

Sand in setting bed mortar for tile shall be as described for masonry work, except that not more than 5% shall pass thru a No. 100 mesh sieve.

Fine aggregate for pointing mortar tile (ceramic and quarry) shall be as specified for masonry work, except that 100% shall pass thru a No. 30 mesh sieve with no more through than 5% passing through a No. 100 mesh sieve.

Before the start of work, sample of fine aggregate shall be submitted to the Engineer for approval.

- 5. <u>Water</u>. Water used in connection with masonry work shall be clean and free of injurious amounts of oil, acid, alkali, organic matter or other deleterious substances, or shall be the water used in the City for drinking purposes.
- 6. Waterproofing and Non-Shrink Admixtures. An approved waterproofing plasticizer with pozzolanic properties containing pure stearic acid and equal to "Omicron" by Master Builders, or "Hydrocide" powder by Sonneborn Building Products Division of Contech, Inc., shall be added to produce a non-shrinking waterproof mortar. Admixture will be mixed with mortar as per manufacturer's requirements or if manufacturer does not specify in a 15:1 volumetric ratio of mortar to admixture.
- 7. <u>Grout</u>. Grout shall be mixed to a thick consistency. Neat grout shall be composed of cement and water only. Non-staining cement shall be used for non-staining grout.

## C. Mixes

- 1. <u>General Specifications</u>. The mortar mixtures shall conform to ASTM C270. The proportions of cement specified herein are the minimum.
- 2. Type M Mortar. ASTM C270; composed by volume in proportions of 1/2 part Portland cement, 1 part masonry cement and not more than 4 parts sand, measured in a damp, loose condition, with waterproofing added, with a minimum average compressive strength at 28 days of 2,500 psi. Use Type III mortar for all masonry work which is below grade.

- Mixing. Mortar shall be freshly mixed and the quantity of each batch shall not be in excess of the amount that will be used before the same has started to set. Retempering will not be permitted. The ingredients for each batch shall be accurately measured and combined in the proportions specified, all parts being measured by volume. Mortar shall be mixed in a batch mixer or by hand and shall be of uniform color and consistency. Mixer drums shall be entirely emptied of a batch before charging for a succeeding batch is started. The mixing time shall be not less than 5 minutes, approximately 2 minutes of which shall be for mixing the dry materials and not less than 3 minutes for continuing the mixing after the water has been added.
- 4. <u>Coloring.</u> Mortar shall be colored using cement during the mixture process. After mixing, mortar shall be of uniform color.

## D. <u>Measurement and Payment</u>

No separate payment shall be made for this work of the specification. The cost for all labor, materials and equipment required for masonry work during construction of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001 Outfall #1 – Manor Road

51.61F002 Outfall #2 – Westmoreland Place

\* \* \* \* \*

#### 7.203 <u>MASONRY ACCESSORIES</u>

#### A. <u>Description of Work</u>

1. The Contractor shall provide all labor, materials and equipment necessary to place all masonry accessories as specified and shown on the Contract Drawings.

#### 2. General Requirements.

- a. <u>Samples</u>. Submit three of each item to the Engineer as specified in the General Conditions.
- b. <u>Job Mock-Up</u>. A sample panel will be constructed at the site. At that time furnish all anchors, ties and reinforcement necessary to construct the sample panel.

#### c. Manufacturer.

- 1) Acceptable manufacturers of anchors, ties and accessories: Hohmann and Barnard, Inc., Hickman Building Products, Inc., or approved equal.
- 2) Acceptable manufacturers of joint reinforcement: Dur-O-Wall, Inc., AA Wire Products or approved equal.
- 3. <u>Product Delivery, Storage and Handling</u>. Materials shall be stored under cover in a dry place and protected from the elements.

#### B. <u>Materials</u>

- 1. <u>Anchors and Ties for Exterior and Interior Work</u>. Non-corrosive, stainless steel.
  - a. <u>Corrugated or Crimped Ties</u>. 22 gauge, not less than 7/8-inch wide, not less than 5 inches long.
  - b. <u>Dovetail Type Masonry Anchors for Fastening Stone to Slot Inserts in Concrete</u>. Shall be designed to fit the slots, not less than 16 gauge, 7/8-inch wide, turned up 1/4-inch at the end. Dovetail slots shall be 20 gauge filled type, furnished under this Section and installed under General Specifications 11, Concrete.

#### <u>DIVISION VII - DETAILED SPECIFICATIONS</u> Installation

- 1. Clean off foreign coatings that will destroy or reduce the bond immediately before placing reinforcing anchors and ties.
- 2. Provide all anchors, anchor slots, ties, masonry joint reinforcement and other anchorage devices necessary to anchor masonry work to the structure and to other masonry.
- 3. Coordinate placement of vertical slots 16-inch o.c. for anchorage of masonry furring and facings in front of concrete. Continuous slots shall not be placed closer than 3 inches to the edges of concrete work.

## D. <u>Measurement and Payment</u>

C.

No separate payment shall be made for this work of the specification. The cost for all labor, materials and equipment required for masonry work during construction of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001 Outfall #1 – Manor Road 51.61F002 Outfall #2 – Westmoreland Place

\* \* \* \* \*

## 7.204 <u>PA COLONIAL FIELD STONE</u>

#### A. <u>Description of Work</u>

The Contractor shall furnish all labor, materials, equipment and services necessary to install stone facing as specified herein and as shown on the Contract Drawings.

## B. <u>General Requirements</u>.

1. <u>Samples</u>. Furnish sufficient stone units including special shapes required, to show range of colors, texture, finishes and dimensions.

## 2. <u>Job Mock-Ups</u>.

- a. Construct two 4 ft.-0 in. x 6 ft.-0 in. sample panels of stone units, with at least one 90E corner, and coping. Show backup and reinforcement.
- b. The Contractor shall construct the three types of sample panel as often as required by the Engineer to achieve approved samples. Do not proceed with construction until sample panels are accepted by the Engineer.
- c. Retain accepted samples as reference standard for project.
- d. Demolish and remove sample panels from the site after completion and acceptance of all masonry work.
- 3. Store all stone units above ground on level platforms which allow air circulation under stacked units; cover and protect against wetting prior to use.
- 4. Handle units on pallets of flatbed barrows and do not permit free discharge from conveyor units or transporting in mortar trays.
- 5. Do not place concrete masonry units, when air temperature is below 40° F (4° C) without specific instructions in writing from the Engineer.

## C. Stone Facing Work

1. Materials

a. Stones: All stones shall be quartzite sandstone, commonly known as Pennsylvania Colonial Field Stone or natural local stone as approved by the Engineer.

All stones shall generally have a minimum length of one (1) foot six (6) inches and a minimum height of six (6) inches. All stones shall generally have a maximum length of three (3) feet zero (0) inches and a maximum height of twelve (12) inches. Stone widths shall generally be no more than twelve (12) inches, and shall generally conform to the width of the stone ledge provided.

All stones shall be free of soil and debris in order to achieve a secure bond with the mortar.

#### D. <u>Installation</u>

- 1. Lay stone with not less than 1" nor more than 2" of the specified mortar between stone and the back-up wall, and in accordance with the approved mock-up.
- 2. Joints shall have a nominal thickness of 3/8-inch, and uniform.
  - a. Strike joints flush in surfaces not exposed to view.
  - b. Point joints tight in unparged masonry below ground, or water level.
  - c. Tool joints in exposed surface when thumb-print hard with round jointer.
- 3. Contractor shall field verify condition of existing structures and surfaces as per ACI guidelines 201.1R prior to laying of stone.

#### 4. Laying

- a. Lay only dry units. Stones shall be laid in cement mortar so as to form full bed, end and side joints at one operation. Stones shall be laid with flat side down and best side facing outward. Those stones with best face on all sides shall be used for the top course as wall cap.
- b. Stones shall be tightly wedged together and flash point mortared in place.

- c. Provide full mortar coverage on horizontal and vertical face shells. Provide full mortar coverage also on webs, in all starting courses, in piers, columns and pilasters, and adjacent to cells or cavities to be filled with grout.
- d. Shove vertical joints tight.
- e. All stones shall be laid in a horizontal banding pattern, utilizing the one-over-two and two-over-one method. Set units plumb, true and line, and with level courses accurately spaced. Adjust units to final position while mortar is soft and plastic.
- f. Keep open spaces at control joints and expansion joints free of mortar by using a continuous wood or metal strip temporarily set in the wall.
- g. If units are displaced after mortar has stiffened, remove, clean joints and units of mortar, and relay with fresh mortar.
- h. When jointing fresh mortar to set or partially set stone construction clean exposed surface to set masonry and remove loose mortar prior to laying fresh masonry. If necessary to stop off a horizontal run of masonry, rake back one-half block length in each course. Do not use toothing to join new masonry to set or partially set masonry when continuing a horizontal run.

#### 5. Anchors and Reinforcement

- a. Units at corners and at intersections shall be bonded with masonry bond and preformed joint reinforcement spaced vertically 16-inch o.c.
- b. Where block passes concrete, anchor with one dovetail anchor for each 2 square feet of wall surface.

#### 6. <u>Built-In Work</u>

- a. Avoid cutting and patching.
- b. Install bolts, anchors, nailing blocks, inserts, frames, vents, flashings, conduit and other built-in items as masonry work progresses. Solidly grout spaces around built-in items.

c. Coordinate the work of this Section with work of all other trades so that no requirements are overlooked.

#### 7. <u>Protection of Work</u>

- a. Protect sills, ledges and off-sets from mortar drippings or other damage and remove misplaced mortar or grout immediately.
- b. Cover top of walls with non-staining waterproof coverings when work is not in progress. Provide minimum 2 ft. overhang of protective covering each side of wall and securely anchor.
- c. Protect face materials against staining.

### 8. Pointing and Cleaning

- a. At final completion of unit masonry work fill holes in joints and tool the same.
- b. Cut out and repoint defective joints.
- c. Dry brush masonry surface after mortar has set, at end of each day's work and after final pointing.
- d. Leave work and surrounding surfaces clean and free of mortar spots and droppings.
- e. Wash down all exposed brick with an approved masonry-type detergent, and then thoroughly rinse with clean water. Before applying any cleaning agent to the entire wall, apply it to a sample wall in a location approved by the Engineer. Cleaning shall not proceed until the sample area has been approved by the Engineer after which the same materials and methods shall be used on the entire work. Acid solutions or acid-type detergents shall not be used.

# E. <u>No Separate Payment</u>

No separate payment shall be made for PA Colonial Field Stones furnished and installed as facing on the pipe collars for the outfall structures. All costs shall be included in the unit cost of the outfall items, as follows:

51.61F002 Outfall #2 – Westmoreland Place

## **EARTHWORK AND GRADING**

## 7.300 Work Included

Under earthwork and grading, the Contractor shall provide all labor, material, tools and equipment necessary to complete the execution of the work in complete accordance with the Specifications and all Contract Drawings. The work shall include items of work specified under the following sections.

Section Number	<u>Title</u>
7.302 7.308 7.308A 7.312-E	Clearing, Grubbing and Removals Fill Select Granular Fill Demolition and Site Clearing
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# 7.301 <u>DEBRIS REMOVAL AND DISPOSAL</u>

#### 7.302 <u>CLEARING</u>, GRUBBING AND REMOVALS

#### A. <u>Description of Work</u>

Under this item, the Contractor shall clear, grub and remove all objectionable material such as trees (with calipers 6 inches or less), shrubby growth and brush, vines, stumps of all sizes, roots and weeds, within the limits of the project site, in accordance with the plans and specifications as directed by the Engineer.

Trees with calipers 6 inches or less shall be removed under this item. Trees with calipers over 6 inches shall be removed under the Tree Removal item.

No trees or shrubs shall be removed except as ordered by the Engineer. All cleared and grubbed material shall be removed from the sites of the Contract and properly disposed of by the Contractor. No additional payment will be made for this, but the cost thereof shall be deemed included in the price bid for this item.

Every effort to protect overhanging branches from damage by machines shall be taken.

The Contractor shall carefully protect all trees, shrubs, and other growth which are to remain, and shall be liable for any and all damages to property caused by clearing and grubbing operations. All trees, plants and other property to remain which are damaged shall be replaced or restored to their original condition to the satisfaction of the Engineer, at no additional cost to the City.

The Contractor shall not remove stones from the site unless otherwise directed by the Engineer. Where stones are found to be in locations conflicting with areas to receive work, stones shall be relocated and stockpiled to adjacent on-site areas. The contractor shall retain and stockpile boulders on site for use in construction as directed by Engineer.

#### B. <u>Construction Methods and General Removal Protocol</u>

Unless otherwise directed, the Contractor shall clear, grub and remove only objectionable surface and subsurface material heretofore described to a depth of six (6) inches below the ground surface as directed by the Engineer. If such areas are in fill greater than six (6) inches, trees and shrubs may be cut flush with the ground surface.

## C. <u>Measurement and Payment</u>

The quantity to be measured for payment under this section shall be the total number of square feet successfully cleared and grubbed and all objectionable material removed in accordance with the plans and specifications and directions of the Engineer. The quantity shall be for clearing, grubbing and removal of all objectionable material within the project work limits.

For supplying all labor, materials and equipment necessary for clearing, grubbing and removals, the Contractor shall receive a unit price bid.

The bid price shall constitute full compensation for all labor, materials, equipment and work incidental thereto, necessary to complete the work in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item Pay Unit

BMP-7.302 Clearing, Grubbing and Removals SF

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7.303 <u>TEMPORARY WOODEN TREE GUARDS</u>

7.304 <u>EXCAVATION</u>

7.305 <u>CRUSHED STONES</u>

7.306

TREE REMOVAL OVER 6" TO 12" CALIPER; TREE REMOVAL OVER 12" TO 18" CALIPER; TREE REMOVAL OVER 18" TO 24" CALIPER AND TREE REMOVAL OVER 24" CALIPER

7.307A <u>GRADING</u>

#### 7.308 FILL

### A. <u>Description of Work</u>

This work shall consist of providing and placing approved fill material where required throughout the project area excluding the road repair areas. The Contractor may use approved fill material excavated from sewer and foundation trenches and stockpiled excavated soils within project limits as long as it meets the approved definition. Reuse of onsite excavated material requires that the material be screened for unsuitable material prior to placement as fill. The approved fill material shall be provided, placed, spread, compacted and fine graded to the elevations, lines, grades and cross-sections indicated on the drawings as directed by the Engineer.

### B. <u>Definition</u>

Approved fill is hereby defined as clean earth, consisting of a mixture of gravel, sand, and silt. Fill material shall have a liquid limit less than or equal to 40 and a plasticity index less than or equal to 20, as determined by ASTM D4318. This mixture must be free of any roots, trees, tree stumps, leaves or other organic matter. Furthermore, this material must also be free of any metals, masonry (i.e. construction debris), stones over one and one-half (1-1/2) inches in diameter and deleterious material. In addition, the fill shall have a gradation such that 100% (by weight) passes a 3" sieve, 50-100% passes a #10 sieve, 20-90% passes a #60 sieve, and 0-20% passes a #200 sieve.

Fill used in planted areas shall be clean earth, consisting of a mixture of silt, clay, and sand. No custom ("select fill") fill shall be used in area which are to be planted.

## C. <u>Measurement and Payment</u>

The quantity to be measured for payment under this Section shall be the total number of cubic yards of approved fill, measured in containers or vehicles, provided and placed as indicated on the Contract Drawings and as directed by the Engineer.

The bid price shall constitute full compensation for all labor, materials, equipment and work incidental thereto, necessary to complete the work in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item

Pay Unit

BMP-7.308 Fill

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### 7.308A <u>SELECT GRANULAR FILL</u>

#### A. <u>Description of Work</u>

The Contractor shall furnish all labor, materials, equipment and services necessary to perform all earthwork within the road repair areas, including excavation, benching, subgrade preparation, backfilling, compaction, and grading as indicated on the Contract Drawings and as specified herein.

## B. General Requirements

- 1. <u>General Specifications</u> Except as modified and supplemented hereinafter in the Detailed Specifications, work performed under this Section shall conform to the NYCDOT Standard Highway Specifications, Section 4.11 Excavation and Filling.
- 2. <u>Shop Drawings</u> The Contractor shall submit to the Engineer for approval shop drawings and other documentation required to show conformance with the requirements set forth on the Contract Drawings and these Specifications. Shop drawings shall include, but not be limited to, the requirements for shop drawings as specified in General Specification.

#### C. Materials

- 1. Soil backfill for the road repair areas, including backfill in Geogrid-reinforced zones, shall be approved select clean natural free draining granular soil free from organics and deleterious materials classified as SW, SP or SM using the Unified Soil Classification System (USCS). Backfill shall have no particles greater than 2-inches in size, shall have no greater than 15-percent by weight passing the No. 200 US Standard Sieve and shall not exhibit a Plasticity Index (ASTM D4318) greater than 5. Soils meeting the requirements for Select Granular Fill, as defined in NYCDOT Standard Highway Specifications Section 4.11.3(C) meet the requirements of this section.
- 2. Soil excavated from the roadway repair areas that meet the requirements of paragraph (1) above can be re-used as soil backfill upon approval by the Engineer. The Contractor shall be responsible for any laboratory or field testing required to confirm suitability of excavated soils at no cost to the City.
- 3. Soils excavated from the road repair areas not meeting the requirements of paragraph (1) above shall not be incorporated into

3. the construction. Imported soil shall be approved by the Engineer in advance.

#### D. Execution

- 1. Upon completion of excavation to the limits shown on the Contract and prior to placement of any geosynthetic reinforcement, the exposed subgrade shall be examined by the Engineer for bearing value and the presence of unsuitable material. If, in the opinion of the Engineer, additional excavation is required due to the low bearing value of the subgrade material, or if the in-place soils are soft, yielding, pumping and wet, the Contractor shall remove such material to the required width and depth and replace it with approved soil backfill meeting the requirements of this section. No payment will be made for subgrade disturbance caused by inadequate dewatering or improper construction methods.
- 2. The exposed subgrade shall be protected from excessive damage due to weather, precipitation or vehicles during construction. At the end of each workday, exposed soils should be "seal rolled" using a smooth drum roller to minimize infiltration and softening. The ground surface shall be sloped away from the wall face to the degree practical and run-on road repair areas from adjacent areas shall be diverted by the Contractor during construction.
- 3. All soil backfill placed in the road repair areas shall be placed in horizontal lifts across the entire width of the road and shall not exceed 6-inches in compacted thickness. Backfill soil shall be compacted to a minimum in-place density equal to 95% of the maximum Standard Maximum Dry Density (ASTM D698) at moisture contents approximately equal to Optimum Moisture Content (ASTM D698). The maximum lift thickness may be increased or reduced by the Engineer to reflect the capability of the on-site compaction equipment and methods employed by the Contractor to spread and compact the soil.
- 4. <u>Field Control</u> Sufficient in place density tests shall be performed by the Contractor in order to satisfy the Engineer that the specified lift thickness, density and moisture content are being obtained. These tests shall be made at no cost to the City and shall be made using the calibrated sand cone method (ASTM D1556) or other method as determined by the Engineer.

- 5. Compaction equipment shall not cause damage or excess deformation of the geosynthetic reinforcement, piping or geosynthetic connections to structures. Heavy compaction equipment shall not be operated within 3-feet of new concrete or sheetpile retaining walls, or the edges of the excavation, unless they are shored. The backfill within 3-feet of the retaining walls and edges of the excavation shall be compacted using light weight hand operated equipment approved by the Engineer.
- 6. Each lift of backfill soil shall be at the proper moisture, density, line and grade prior to placement of overlying soil or geosynthetic reinforcement.

## E. Measurement and Payment

The bid price shall constitute full compensation for all labor, materials, equipment and work incidental thereto, necessary to complete the work in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item

Pay Unit

BMP-7.308A Select Granular Fill

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7.309 <u>IN-STREAM SEDIMENT REMOVAL</u>

7.310 PLANT AND SOD SALVAGE

# 7.311 <u>CONSTRUCTED WETLAND TREATMENT</u>

#### 7.312-E DEMOLITION AND SITE CLEARING

- A. <u>Description of Work</u> The Contractor shall demolish, remove, and dispose of all existing structures, to the extent indicated and as specified herein.
  - 1. Removal of existing asphalt as required and shown on the Contract Drawings.
  - 1. Removal of existing wood pole as required and shown on the Contract Drawings.

The removal of the concrete swale structure located within the project easement shall be removed as part of the installation of the outfall pipe and will not be paid for under this item.

## B. <u>General Requirements</u>

All demolition and removals shall be in accordance with the New York City Building Code.

- 1. Shop Drawings The Contractor shall submit to the Engineer for approval shop drawings and other material required to substantiate conformance to the requirements set forth in these Specifications. Shop drawings shall include, but not be limited to, the extent and schedule of demolition, demolition procedure, safety precautions as specified. Approval of shop drawings by the Engineer is required before demolition may be started. The Contractor shall verify the existing conditions of the structures and site prior to submitting the Shop Drawings.
- 2. <u>Permits to be Obtained</u> Before proceeding with the demolition and clearing work, the Contractor shall obtain all necessary permits required by the City Departments and other agencies having jurisdiction.
- 3. The Contractor shall provide adequate fire protection during demolition in accordance with New York City Fire Department Requirements.
- 4. The Contractor shall obtain all necessary approvals from all utilities in regards to disconnecting all existing utility connections. The Contractor shall remove all utility lines in the driveway of the structure to be demolished up to St. George Road.

## C. <u>Demolition Procedures</u>

#### General

- 1. The limits of demolition are removal of the existing gutters and chutes as identified on the Contract Drawings, located within the project site limits.
  - a. Use of explosives will not be permitted.
  - b. In performance of this work, the Contractor shall provide protection of adjacent existing structures and existing vegetation. Any trees or shrubs damaged or removed by the Contractor during demolition activities shall be replaced by the Contractor at no additional expense to the City.
- Clearing and Grading Resulting excavation from the demolition of the structures shall be backfilled and compacted to conform to surrounding grades. All associated debris materials shall be removed from site and disposed of by Contractor. Burning will not be permitted.
- 3. Restoration The backfilled and graded demolition site shall be restored in accordance with specification sections 7.401.3 paragraph I and specification section 7.308. The restoration will include the preparation and application of clean fill to tie into adjacent grade (payment item BMP-7.308) and the application of seeding (payment item 4.20).

All restoration work shall be as directed by the Restoration Specialist who shall prepare a detailed plan for planting the cleared site.

5. <u>Disposal</u> - All materials resulting from the demolition work will become the property of the Contractor. The materials shall be removed from site to Contractor's own place of disposal at Contractor's expense in conformance with existing applicable laws and regulations.

### D. Measurement and Payment

The quantity to be measured for payment for demolition under this Section shall be the total number of cubic yards of material removed and disposed as directed by the Engineer. Measurements shall be paid under the proper bid items and the quantity to be paid for will be (8/10) of the yardage determined by such measurements. The contract price per cubic yard of demolition material removed shall be as indicated on the BID SCHEDULE OF PRICES Payment Item No. BMP-7.312-E. bid price shall

constitute full compensation for all labor, materials, equipment and work incidental thereto, necessary to complete this item in accordance with the plans and specifications to the satisfaction of the Engineer. No separate payment shall be made for any work by the Contractor concerning disconnecting and removing of the utility lines. The cost of all planting (topsoil, trees, shrubs, wildflower seed mix) shall be paid from those existing items.

Payment for demolition performed in conjunction with the construction and installation of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001	Outfall #1 – Manor Road
51.61F002	Outfall #2 – Westmoreland Place
51.61F003	Outfall #3 – Knollwood Avenue
51.61F004	Outfall #4 – Bayview Avenue
51.61F005	Outfall #5 – West Drive

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## **LANDSCAPING AND RESTORATION WORK**

## 7.400 Work Included

Under landscaping and restoration work, the Contractor shall provide labor, materials, tools and equipment necessary to complete the execution of the work in complete accordance with the Specifications and all Contract Drawings. The work shall include items of work specified under the following sections.

Section Number	<u>Title</u>
7.401	Landscaping for Terrestrial Zone and Wetland Zone
7.403	Top Soil
7.404-A	Restoration Specialist
7.407-A	Erosion Control Mat
7.417	Debris Exclusion Fence
7.420	Typical Gutter and Chute Restoration

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## 7.401 LANDSCAPING FOR TERRESTRIAL ZONE AND WETLAND ZONE

#### A. Work Included

Under these items, the Contractor shall furnish all labor, materials, equipment and services necessary for the proper execution of all landscaping work, as specified herein and as shown on the Contract Drawings, including all incidental and appurtenant work required for a complete job. In addition, the contractor will also furnish and deliver Permanent Seed Mix as directed by the Engineer.

## B. General Requirements

#### 1. Reference Standards

- a. American Association of Nurserymen, Inc., (American National Standards Institute) Nursery Stock (Z60.1)
- b. American Joint Committee on Horticultural Nomenclature Standardized Plant Names.
- c. A Checklist of New York State Plants, Contributions to a Flora of New York State, Checklist III, Bulletin #458, Richard S. Mitchell, State Botanist, New York State Museum, 1986.
- d. A Comparative Flora of Staten Island, 1879 1981, Buegler and Parisio, Staten Island Institute of Arts & Sciences.

## C. Quality Assurance

### 1. Source Quality Control:

a. If private nursery sources are used, they must be within a 250-mile radius of the planting site. All specified plants shall have also been grown in the same USDA climatic zone as that of the planting site.

All seed and original stock material for herbaceous plants shall have been collected from locally adapted ecotypes within a one-hundred mile radius of the project site. Plant material may have to be contract grown in order to meet this requirement.

No substitutions of specified plants will be accepted without prior approval of the Engineer or his/her duly authorized representative.

- b. General. Ship landscape material with certificates of inspection when required by governmental authorities. Comply with governing regulations applicable to landscape material.
- c. Packaged Material. Package standard products with manufacturer's certified analysis. For other material, such as topsoil, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agricultural Chemists, wherever applicable, or as further specified.
- d. All seed shall be interagency certified under the auspices of a State Seed Improvement Cooperative and must bear their seals of certification on bag. Permanent seed shall be 75% Pure Live Seed minimum.
- 2. Trees and plants shall be specified as in the Contract Documents. Nurseries which collect plants from the wild shall be rejected. No substitutions shall be permitted, except as authorized in writing by Engineer. If specified landscape material is not obtainable, submit proof of non-availability to Engineer, together with proposal for use of equivalent material. All plants specified within this Contract are native to the State of New York. Species native to this region, but not listed as native within A Checklist of New York State Plants may be accepted on a case-by-case basis.
- 3. The Contractor shall provide trees and plants of quantity, size, genus, species and variety shown and scheduled in the Contract Documents for landscape work and complying with recommendations and requirements of ANSI Z60.1 "American Standard for Nursery Stock". The Contractor shall provide healthy, vigorous stock, grown in a recognized nursery in accordance with good horticultural practice and free of disease, insects, eggs, larvae and defects such as knots, sun-scald, injuries abrasions, or disfigurement.
- 4. All plants furnished under this Item shall be true to name. Plant names shall agree with the nomenclature of Standardized Plant Names as adopted by the American Joint Committee on Horticultural Nomenclature, 1942 Edition. Size and grading shall conform to those of the American Association of Nurserymen. All

- 4. wetland plants shall come from Queens stock or within 250-mile radius of Queens.
- 5. Certified analyses by a recognized laboratory shall be submitted by the Contractor for approval by the Engineer for topsoil before delivery to the site. Analyses must include mechanical analysis, magnesium, nitrogen, potassium, and phosphorus levels, soluble salts, pH and organic matter. Standards and formatting for topsoil analyses shall conform to those of Cornell Cooperative Extension of Nassau County. Associated costs and additional guidelines for topsoil analyses shall be as specified under Section 7.403 TOP SOIL, of this Addendum.

## 6. Inspection:

- a. The Engineer shall inspect trees and shrubs at place of growth before planting, for compliance with requirements for genus, species, variety, size and quality. Contractor shall be responsible for all inspection costs beyond a 50-mile radius from New York City.
- b. Plant materials shall be inspected by the Engineer upon arrival at the job site and prior to planting. Any materials not in compliance with specifications shall not be accepted and shall be removed from the job site immediately.
- c. The Engineer retains the right to further inspect trees for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. The Contractor shall remove rejected trees immediately from project site.
- d. Tagged samples of plant materials shall be delivered to the site and planted in locations approved by the Engineer. These tagged samples shall be maintained, protected and used as standards for comparison with the plants furnished for the work.
  - e. The Contractor shall be responsible for all certificates of inspection of plant material that may be required by Federal, State or other authorities to accompany each shipment of plants. On arrival, the certificates shall be filed with the Engineer. The Engineer shall receive a copy of each shipping invoice immediately after the delivery has arrived at the job site.

#### D. Submittals

The General Contractor shall submit the following information (as listed in 1. through 4.) for approval within ten working days following the date in the Notice to Commence Work:

- 1. Subcontractors. Subcontractors proposed for landscaping and associated restoration and site work must be approved by the Engineer prior to start of work. The Contractor shall submit at least three (3) alternative Subcontractors to the Engineer for review and approval. The Subcontractors proposed shall be evaluated on the following criteria, prioritized in descending order:
  - a. The Contractor shall submit a minimum of three (3) projects similar in scope and type within the last five years whereby the Contractor was directly responsible for the installation, restoration and maintenance of native habitats and wetlands. References and xerographic reproductions of photographs of the projects shall be submitted. Projects shall not be more than five years old.
  - b. Demonstrated capacity to accomplish the work in the required time including qualification of experienced foreman and key personnel.
  - c. Experience in digging and transplanting field stock.
  - d. Experience with City agencies, such as the NYC Department of Parks and Recreation and New York Botanic Gardens, and private organizations, such as the Central Park Conservancy.
  - e. Other references or experience deemed appropriate to obtaining approval.
- 2. List of growers/nurseries.
- 3. Certified arborist or nurseryman, experienced in tree pruning and removal.
- 4. List of all materials and certificates specified within this Item.

The General Contractor shall submit the following information (as listed in 5 through 8) prior to construction:

#### 5. Certificates:

- a. All necessary State, Federal and other inspection certificates as may be required by law.
- b. Two (2) copies to the Engineer of manufacturers' or vendors' certified analysis for soil treatments and fertilizer materials shall be submitted with samples.
- c. Certification and guarantee that all plant material is true to name and in conformance with these specifications.
- d. The invoice or a written statement showing the size and grade of materials received or shipped, together with the source and health of the plant material and verification that balled and burlapped plants were sprayed with an anti-desiccant within 48 hours prior to digging. No plants shall be accepted that have been collected from property other than that owned or leased by a nursery.
- e. Certification that all herbaceous plant material was grown from seed or stock collected from locally adapted ecotypes within a one-hundred mile radius of the project site.
- 6. Planting Schedule. Submit proposed planting schedule within one month of official Notice to Commence Work, indicating dates for each type of landscape work during normal seasons and as specified in the Contract for such work in area of site. Included shall be a schedule of nursery visits for Restoration Specialist to tag plant material. Correlate from date of substantial completion. Once accepted, revise dates only as approved in writing by the Engineer, after documentation of reasons for delays.
- 7. List of equipment, methods of operation, and maintenance plant, including methods for protection of existing vegetation.
- 8. Manufacturer's Literature. Manufacturer's literature for all materials furnished shall be submitted with samples of same.
- 9. The Contractor is required to perform a separate germination test on the seed mixes to be used on this project prior to submitting the seed mix and supplier. The results of the germination test shall be included in with the information submitted to the Engineer for review and acceptance. The Contractor is advised that these tests can run two-months or more and should be prepared to have these tests completed in sufficient time for the next seeding season. Seed

shall conform to all applicable state and federal regulations and to test provisions of the Association of Official Seed Analysts. There shall be no exceptions.

10. The Landscape Subcontractor shall submit a watering and weeding plan and maintenance schedule prior to the installation of plant material, to be approved by the Engineer with consultation from the Restoration Specialist. The plan shall include proposed methods of watering and weeding, including but not limited to tree gators (bags), sprinklers, drip hoses, irrigation, tanker vehicles and hand watering, etc., as well as manual weeding and weeding tools. No additional payment will be made for watering and weeding during installation and during the three year guarantee period.

The approved plan and schedule do not relieve the Contractor in any way from any aspect of the replacement of dead plant material. The Landscape Subcontractor may alter the maintenance schedule based on weather and field conditions.

## E. <u>Product Delivery, Storage and Handling</u>

## 1. Delivery of Materials:

- a. Packaged Materials. Deliver packaged materials in unopened bags or containers, each bearing the name, warranty, and trademark of the producer and the composition, analysis and the weight of the material.
- b. Trees and Plants. The Contractor shall provide trees and plants of the stock type and quantities shown on the Contract Drawings. Do not prune prior to delivery unless otherwise approved by the Engineer. Do not bend or bindtie trees or plants in such a manner as to damage bark, break branches or destroy natural shape. Provide protective covering during delivery, and insure that all balled and burlapped stock, container stock, tube stock, and/or bare root material is handled properly and is not dropped.
- c. All plant materials shall be protected from drying out and from wind damage during delivery.
- d. The Contractor shall deliver trees and plants after preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery, set trees and plants in shade, protect from wind, weather and mechanical damage, and keep roots moist by

covering with mulch, burlap or other acceptable means of retaining moisture. Water as necessary.

- e. The Contractor shall not remove container grown stock from container until planting time.
- f. Material should be planted in the ground immediately after delivery to site. Plants should be covered with damp-not wet-leaf compost while awaiting ground installation. Do not allow the plants to dry out or freeze.
- g. Fertilizer delivered to the job site shall be in original, unopened containers bearing the manufacturer's chemical analysis and essential information. Fertilizer containers shall be protected from exposure to precipitation and direct sunlight.
- h. All materials shall be stored in upland areas that are protected from weather.

Seed shall be clean and fresh and delivered to the site in the original, unopened bags showing the net weight, composition of mix, suppliers name and guarantee of analysis. Seed shall be delivered and stored in original unopened packages, kept dry, and not opened until needed for use. Damaged or faulty packages shall not be used and will be rejected. Seed shall have been harvested for planting in the current growing season, and shall have been packed within the last 9 months.

## F. <u>Job Conditions</u>

Terrestrial and Wetland Buffer Zone Plantings: Unless otherwise directed by the Engineer, evergreen material shall be planted and transplanted from April 1st to May 15th and from September 1st to October 15th. Deciduous material shall be planted and transplanted from March 1st to May 30th and from October 15th to December 1st. Container-grown herbaceous material shall be planted and transplanted from March 1st to May 30th and from August 15th to September 15th (SEE PLANTING SCHEDULE INCLUDED IN THIS SPECIFICATION). Perform actual planting when conditions are suitable. No plant material shall be planted when the ground is frozen or in excessively moist condition. All material labeled as fall planting hazard shall be installed during the spring only. Notify the Engineer before proceeding with any planting operations. Wetland Plantings:

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- 1. Time of Planting and Transplanting. All wetland plantings shall be installed in time frames indicated under the above Terrestrial and Wetland Buffer Zone Planting section. Perform actual planting when conditions are suitable. No plant material shall be planted when the ground is frozen or in excessively moist condition. Notify the Engineer before proceeding with any planting operations.
- 2. The Contractor shall proceed with and complete landscape work as rapidly as portions of site become available, working within seasonal limitations for each kind of landscape work required.
- 3. Utilities. The Contractor shall determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required. Maintain grade stakes set by others until removal is approved by the Engineer.
- 4. Excavation. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse draining conditions, or obstructions, notify the Engineer.
- 5. Preservation and Restoration of Existing Trees and Shrubs.
  - a. In order to avoid surface and subsurface root damage and soil compaction, the Contractor shall not be permitted to stockpile materials of any nature under the drip line of existing trees and shrubs. This directive shall apply to all areas within or outside the Contract limit line.
  - b. The Contractor shall assume the responsibility for any remedial work such as root and top pruning required and/or necessary to prevent loss of plant material when this article is violated or when trees or shrubs are injured by construction equipment.
  - c. Compensatory pruning and fertilizing of existing trees and shrubs shall be performed to compensate for damage of roots incurred. Fertilize in areas around undamaged roots only and not adjacent to the trunk or main stem. Fertilizer shall be applied in the fall unless otherwise approved by Engineer.
  - d. Tree pruning shall be performed in accordance with NYCDOT Standard Highway Specifications Section 4.18.

- e. No separate payment will be made for fertilizing and pruning of trees and shrubs in stockpile areas or when trees or shrubs are injured by construction equipment, but the cost thereof will be deemed to be included in the various prices bid for the items for which such pruning and fertilizing are necessary.
- f. No existing trees, shrubs or herbaceous plants shall be removed, except as specifically required by this Contract or as specified on Contract Documents, or as specifically approved in writing by the Engineer.
- g. Any areas or items of existing landscape which are removed or damaged shall be replaced by the Contractor at no additional cost to the City. The Contractor shall match the existing condition prior to damage or as directed by the Engineer.
- h. All existing landscape features including trees, shrubs, perennial, meadows, lawns, wetlands, paving, walls, stairs, etc. shall be protected by the Contractor, utilizing methods approved by the Engineer prior to start of work.

## G. Guarantee

- 1. Landscape Guarantee and Replacements
  - a. Guarantee. All BMP landscaping work shall have a replacement guarantee for a period of three (3) years beginning at the date of acceptance of the Landscaping work or the date of substantial completion, whichever is later, and shall be considered as included under monies shown within the guarantee provisions of Schedule A.
  - b. Operations. The Contractor shall, for a period of three (3) years, cultivate, weed, mulch, prune, and water all trees, shrubs, herbaceous plants, vines permanent seeded areas under this Contract, to the satisfaction of the Engineer. The Contractor shall replace, according to the original specifications, any plant material which is dead or in a dying condition at the request of the Engineer. The Engineer shall be the sole judge as to the condition of the plants. The guarantee and maintenance applies to all planted and grassed areas, meadows, paved and other landscaped areas.

c. Replacement. Any plant material that is dead or not showing satisfactory growth, as determined by the Engineer, shall be promptly removed and replaced by the Contractor during normal planting season specified in Section 7.401.2E. Initial replacement of dead material and the repair of bare areas will take place one year following the acceptance of plant material. The replacement shall be of the same variety, size and character as specified for the original planting. Unless a written waiver of this clause is issued, under the terms of the guarantee, replacement plants shall be chosen only by the Engineer.

At the end of the guarantee period, and upon written request, an inspection will be made by the Engineer. If mortality exceeds ten percent or if bare areas occur, the Contractor shall replace plant material.

#### H. Materials

#### 1. <u>Topsoil</u>

- a. Topsoil from site stripping shall be used if the material meets specifications listed in Section 7.403, of this Addendum. A soil test(s) shall be made at Contractor's expense to determine if the specifications for all the tests listed in (7.403) have been met. A soil test shall be required and shall serve as a representative analysis for every 200 cubic yards of material utilized.
- b. Additional topsoil shall be furnished from sources off the Contract site when existing topsoil is not sufficient. Material shall consist of natural loam topsoil, free from subsoil, obtained from an area which has never been stripped. Topsoil shall comply with the requirements of Specification Section 7.403, of this Addendum.

#### 2. Fertilizer

Fertilizer shall be provided as indicated on the Contract Drawings: Osmocote, granular, slow-release in the specified time frame releases and analyses. Fertilizer shall be furnished in standard containers, with name, weight and guarantee analysis of contents clearly marked thereon. Appropriate containers to disperse specified amounts of fertilizer into planting holes shall be supplied and used by the Contractor.

### 3. Mycorrhizal Innoculants

- a. Mycorrhizal inoculants shall be used in all tree and shrub planting operations in all areas receiving topsoil from off-site sources, or stripped topsoil stockpiled in excess of one year.
- b. The inoculants for trees and shrubs shall be "Mycor Tree Saver" as manufactured by Plant Health Care, Inc., or approved equal. The inoculants shall contain fresh, live and viable spores of both endo (VAM) and ecto (Pt) mycorrhizal fungi. All inoculants shall be delivered in sealed containers or packages of the Vendor, listing the weight, content, date of packaging and name of Vendor.
- c. The inoculants for herbaceous plants and grasses shall be Mycor Plant Saver as manufactured by Plant Health Care, Inc., or approved equal. The inoculants shall contain fresh, live and viable spores of both endo (VAM) and ecto (Pt) mycorrhizal fungi. All inoculants shall be delivered in sealed containers or packages of the Bendor, listing the weight, content, date of packaging and name of Vendor.
- d. The inoculants shall be stored in unopened containers in a cool, dry location. All containers must be inspected by the Engineer prior to opening. Any inoculants dated eighteen (18) months or more prior to the date of intended use shall not be used. Any inoculant that has been in a wet condition shall not be used. Any inoculant rejected by the Engineer shall be removed from the site.
- e. For trees and shrubs, the Contractor shall incorporate the inoculant into the top eight inches (8") of the topsoil mix used in the planting operations described in Section 7.403, of this Addendum, and as per the manufacturer's instructions. The amount of inoculant used at each plant shall be based on the plant's size see manufacturer's instructions. For herbaceous plants, the Contractor shall place the inoculant into each planting hole as per manufacturer's application rate and project plans.
- f. The Contractor shall not apply fungicide to any areas receiving inoculant for a minimum of two weeks following the planting operations.

#### 4. Plant Material

- a. The Contractor shall furnish all plant material shown. Plant material must be true to name and size and conform to the following standards:
  - i. American Joint Committee on Horticultural Nomenclature, Standardized Plant Names (Published by Mount Pleasant Press J. Horace McFarland Company, Harrisburg, PA.).
  - ii. American Association of Nurseryman, "Horticultural Standards" (Published by American Association of Nurserymen, Inc., 635-636 Southern Building, Washington, D.C.).
- b. Nursery grown plants shall mean plants propagated by seed, division, tissue culture or cloned from existing stock at a nursery, which are healthy, vigorous plants, cultivated in accordance with sound horticultural practice. All plants shall be nursery grown unless collected from natural areas owned or leased for that purpose by the nursery. All plants shall have been grown under the same climatic conditions as those of the planting site. All herbaceous plants shall come from seeds or stock collected within a one-hundred mile radius of the project site. Only those nurseries within a 250-mile radius of the planting site will be accepted as plant sources. In some cases plant material may be obtained outside the 250-mile radius on a case-by-case basis.
- c. All plants and all balled and burlapped plants shall be freshly dug; neither heeled-in nor plants from cold storage will be accepted. All plants shall have been transplanted or root pruned at least once in the past three years.
- d. All plants shall conform to the measurements specified in the plant list on the Contract Drawings. All plants shall be typical of their species and shall have a normal, healthy habit of growth and be of first quality, sound, vigorous, well-branched and densely foliated. Plants that meet the requirements specified in the plant list, but that do not possess a normal balance between height and spread will not be accepted. No damaged or diseased plants will be accepted.
- e. All deciduous trees shall be well-branched and furnished to the ground. There shall be no abrasion of the bark, no fresh cuts of limbs over 1-1/4" which have not completely calloused over. A heavy fibrous root system is essential.

- f. Refer to Plant Schedules on the Contract Drawings for further specifications.
- g. All evergreen trees shall be heavy, symmetrical plants well-furnished to the ground. They may be multiple-stemmed. All evergreen trees must be free from winter injury. A heavy fibrous root system is essential.
- h. Trees 4" caliper or less shall be calipered six inches above ground. Trees greater than 4" caliper shall be calipered one foot above ground.
- i. All trees to be tagged on north side of tree for proper orientation when planting.

## 5. Mulch

Mulch shall be organic mulch free from deleterious materials and suitable for top dressing of trees, shrubs or plants and shall be shredded hardwood bark, decayed hardwood chips, leaf mold, pine straw, partially decayed leaves, cottonseed hulls, peanut hulls or other organic products. Mulch must be aged at least one year, should not contain elm wood chips, or be from diseased trees. No shredded bark pieces shall be greater than 3" in length and 13" in width. Mulch for seeded areas shall be clean, seed-free salt hay. Mulch shall be free of roots or other parts of invasive exotic plants that may take root in restored area.

## 6. <u>Compost</u>

Compost having the general properties of humus shall contain organic matter with no admixture of refuse or material toxic to plant growth and shall be completely decomposed and free from deleterious materials such as a glass, paper, plastics, metals, etc.

# 7. <u>Materials for Anchoring, Staking, Guying, Wrapping</u>

a. Stakes. The Contractor shall provide straight, sound cedar stakes, 2 x 2-1/2 inch diameter (50 x 50 mm or 63 mm diameter) in size.

In natural areas, where wind-disturbance is unlikely Engineer will determine if stakes are necessary. If it is determined that staking is required, a modified staking system shall be used. The modified stakes shall be shorter than conventional stakes, and shall protrude 18 inches

above the finished grade. Stakes shall be anchored and fastened in the same manner as in conventional staking.

- b. Tree guys. The Contractor shall provide guys of 3/4" woven polypropylene fabric, such as "Arbor-Tie" or approved equal. Each end shall be coiled tightly, with enough slack left in guy so as to allow slight movement of tree trunk. Guying shall be performed under the direct supervision of the Engineer.
- c. Wrapping Material. The Contractor shall use standard nursery tree wrapping paper, or burlap manufactured for wrapping tree trunks. Burlap shall be made of jute. Twine for tying shall be lightly tarred sisal (lath) yarn.

## 8. <u>Topsoil Mix</u>

The topsoil mix shall meet the requirements listed in Section 7.403 TOP SOIL, of this Addendum.

## 9. <u>Temporary Seed Mixtures</u>

Soil stockpiles and cleared and graded areas shall receive Ryegrass (annual or perennial).

Nurse/Cover seed shall be certified "Aroostook" winter rye (cereal rye).

#### 10. Permanent Seed Mixture

Seed mixture shall be as specified in the Contract Drawings unless otherwise directed by the Engineer. The FACW Wetland Meadow Mix shall be manufactured by Ernst Seed Co., or approved equal.

#### I. Execution

### <u>Installation/Application/Performance for Terrestrial and Wetland Buffer</u> Zone Plants

- 1. Workmanship. The Contractor shall complete all work in the best manner, so that the work as a whole is of uniform quality and appearance. The Contractor shall conform to the requirements specified hereafter.
- 2. Preparation.

- a. Areas described and shown on plans shall be rough graded with suitable local fill to (maximum) four (4) inches below the finished surface, topsoiled, fine graded, prepared for planting and landscaped.
- b. Subgrade shall be kept free of masonry, concrete, metal waste materials, and debris.
- c. Remove stones over 1-1/2 inches in any dimension, as well as sticks, rubbish and other extraneous matter.
- d. No topsoil mix is to be placed until the subgrade is approved by the Engineer.
- e. For planting beds, spread topsoil mix to minimum depth required to meet lines, grades and elevations shown on the Contract Drawings, after light rolling and natural settlement.
- f. The planting beds and pits shall be worked up well, and shall be free of other vegetation and large clods of soil.
- g. Apply fertilizer at rate specified in Contract Drawings during planting and seeding operations. Do not use fertilizer for wetland plants or in excessively wet areas.
- 3. <u>Delivery</u>: Plants shall be packed, transported, and handled with utmost care to insure adequate protection against injury. When transported in closed vehicles, plants shall receive adequate ventilation to prevent sweating. When transported in open vehicles, plants shall be protected by tarpaulins or other suitable cover material. All bare root plants shall be adequately protected from drying out and immediately after inspection shall be heeled in moist soil. Balled and burlapped plants shall be set on the ground and the ball covered with soil. Until planted, all material shall be properly maintained and kept adequately moist, to the satisfaction of the Engineer.
- 4. <u>Inspection</u>: Inspection may be made before digging if the Engineer directs, but no plant material shall be planted by the Contractor until inspected by the Engineer at the site of the work. Plant material will be rejected if delivered with broken or damaged root balls, or if damaged on site by rough handling. All rejected material shall be immediately removed from the site and replaced with acceptable material at no additional cost to the City. Final inspection shall be made upon completion of the Contract.

- 5. <u>Installation</u>.
  - a. Planting Operations.
    - 1. Layout: All trees, shrubs and herbaceous shall be laid out in random and naturalistic arrangements, as specified in the Contract Drawings unless otherwise directed by the Engineer. All plant and planting area locations shall be staked prior to planting by the Engineer. Place no plantings within two (2) feet of pavements or structures, unless otherwise indicated.
    - 2. Loosen subsoil/subgrade to a depth of six (6) inches prior to topsoil placement so that the topsoil and subsoil layers don't mix. Loosen subsoil with rototiller, backhoe or discer. The soil-loosening operation shall be conducted in such a way as to back its way out of the site. After this, no more heavy machinery shall be allowed on the planting beds.
    - 3. Rototill/cultivate soils to a depth equal to the depth of the root ball and two times the diameter of the root ball. Set the tree/shrub on the undisturbed solid ground in the center of the area.
    - 4. Obstructions Below Ground: Remove any rock, rubble, masonry, concrete, metal, stones over one inch or other underground obstructions to the depth necessary to permit proper planting.
    - 5. Disposal: Remove and dispose of all excess excavations and unsuitable materials. Dispose in accordance with all local laws and regulations at Contractor's cost.
    - 6. Apply topsoil, utilizing small equipment that does not compact soil.
    - 7. Plant Beds: All plant material shall be planted in existing on-site and/or locally available topsoil, except for shallow plantings installed within the specified four-inch (minimum) topsoil layer.
    - 8. Bare root material shall be adequately protected from drying out and immediately heeled in after inspection. The bundles of heeled-in plants shall be set

upright on the ground, covered with mulch, and kept adequately moist until the time of installation. Until the time of planting, all plant material shall be stored in an approved location, securely fenced and maintained, to the satisfaction of the Engineer, at no additional cost to the City. All plants not planted immediately shall be watered as necessary to maintain optimal health until planting.

- 9. Setting Plants: Plant all plants to the same depth as their place of growth, unless otherwise directed. Center the plants in their planting pits. Set in the natural upright position at such a level that, after settlement, a normal or natural relationship of the crown of the plant with the ground surface shall be established. Be careful not to exert any pressure that will damage any portion of the plant.
- 10. Topsoil mix shall be lightly tamped around the base of all plants and trees. Avoid compacting the soil. As clay soils are particularly prone to compaction, especially if worked when wet, transplant into clay soils when they are not saturated to the greatest extent possible. Do not leave plants exposed to sun or wind prior to planting. Take special care to avoid desiccation of fibrous-rooted plants.
- 11. The Contractor shall be liable for any damage to property caused by planting operations and the Contractor shall, without any additional cost, restore to original condition or replace all trees, plant beds, lawns, meadows and all construction disturbed or damaged in performing the work of this Contract.
- b. Planting Trees and Shrubs.
  - 1. Trees and shrubs shall be planted before herbaceous plants to avoid trampling of the smaller material. The Contractor shall properly sequence plant delivery to achieve this progression.
  - 2. Balled and burlapped. The roots of balled and burlapped plants shall, if not immediately planted after digging and inspection, be adequately protected by topsoil until planted in their final location. Handle balled plants so that the ball will not be loosened. After the soil has been thoroughly firmed

under and around the ball, cut the burlap away from the upper half of the ball and adjust remaining burlap to prevent the formation of air pockets; when directed by the Engineer remove the burlap entirely. Firm the soil at 6" to 8" intervals and thoroughly settle with water. Remove all wire baskets from root balls, unless otherwise directed by the Engineer. Install mulch around trees and shrubs immediately after installation.

- 3. Container. Cut containers on 2 sides with an approved can cutter and remove plant from container. Set container grown stock as specified. If container grown plant is root-bound or can be easily pulled from container, plant shall be rejected. Place plant on a cushion of planting soil mixture and carefully work soil mix around roots by hand and puddle with water until the soil mix layers are completely saturated.
- 4. Tube stock. Plants shall be removed from tube entirely and without damage. Plugs shall have solid soil/root masses with the soil in place. Roots must appear clean and white in coloration. If plug is root-bound or can be easily pulled from tube, plant shall be rejected. Plug shall be installed in hole perpendicular with root collar and even with the surrounding grades. Plant to be firmed in to remove air pockets, then watered to full saturation.
- 5. Mix granular 12-14 month slow release Osmocote into the top two inches (2") of soil backfill at the rates indicated on the Contract Drawings. Apply Mycorrhizal inoculants directly to the root ball. The top of the root ball/container soil shall be level with the substrate surface. Excess substrate shall be distributed around the planting sites. No saucers shall be constructed around the planting sites with the excess substrate.
  - 6. Mulch pits, trenches and all planted areas. Provide not less than a three (3) inch thick layer of mulch and work into top of soil and finish level with adjacent finish grades. Do <u>not</u> place mulch within six (6) to eight (8) inches of tree trunks, nor should the base of shrubs and other plants be

covered by mulch. No separate payment shall be made for mulching planted areas.

- 7. Prune, thin out and shape trees in accordance with standard horticultural practice. Prune trees to retain required height and spread. Unless otherwise directed by the Engineer, do not cut tree leaders, and remove only injured or dead branches from flowering trees, if any. Prune plant material to retain natural character.
- 8. Trees shall be placed with the tags facing North. Placing the trees in the same orientation to the North as they were grown in the nursery shall serve to limit bark sun scald.
- 9. Guy and stake street trees immediately after planting, as required by the Engineer. Trees planted as part of a natural area restoration must use modified staking system if deemed necessary. Stakes shall be removed after one complete growing season.
- 10. Stake all trees within 20 feet of a surface water feature, so that they will not be washed away in time of flood.
- 11. Contactor shall install plant protection fence, as detailed in Section 7.410 Plant Protection Fence, around landscaped areas, upon completion of planting activities.
- 6. <u>Method of Work</u>. Submit a list of proposed methods of execution of work under this section for review by the Engineer when proposed methods are different from, or supplementary to, those specified herein.

## J. <u>Temporary Seed Mixture</u>

- 1. Soil stockpiles shall be seeded with a temporary seed mixture if they will be in place for greater than 30 days. Cleared and graded areas shall also be seeded with a temporary seed mixture to temporarily stabilize them, if they will not be landscaped or planted (final) for more than 30 days.
- 2. Seed mixture Temporary seeding shall be Ryegrass (annual or perennial) at a rate of 30 lbs per acre of 0.7 lbs per 1,000 sq. ft. If

area is seeded during months of October and November, certified "Aroostook" winter rye (cereal rye) shall be used at a rate or 100 lbs per acre of 2.5 lbs per 1,000 sq. ft.

- 3. Temporary seeding shall be made within 24 hours of construction/disturbance. If not, the soil must be scarified prior to seeding.
- 4. Method of seeding seed shall be evenly applied with broadcast seeder, drill or cultipack seeder.
- 5. If temporary seeding is made under favorable soil and site conditions during the optimum seeding dates (March 21 May 20 or August 25 October 15) mulch is not required. Any temporary seeding outside of those dates shall be mulched with salt hay mulch at a rate of 2 tons per acre (100-200 bales/acre).
- 6. Any area with fail to establish vegetative cover adequate to prevent rill erosion will be reseeded as soon as such areas are identified.

## K. <u>Permanent Seed Mixture</u>

- 1. Seed materials shall be inspected by the Engineer upon arrival at the job site and prior to planting. Any materials not in compliance with specifications shall not be accepted and shall be removed from the job site immediately.
- 2. All seed materials shall be protected from drying out and from wind damage during delivery.
- 3. All areas shown to receive seed on Contract Drawings and all areas which are disturbed and not planted shall be seeded.
- 4. Seedbed Preparation Scarify all compacted areas and remove all debris and obstacles such as rocks and stumps.
- 5. Do not broadcast seed by mechanical application when the wind velocity is such as to prevent uniform seed distribution.
- 6. Seed at a rate of 10 pounds per acre along with 10 pounds per acre of cover/nurse crop. The nurse crop may consist of annual ryegrass.
- 7. Time of Seeding Permanent seeding shall be done within 15 days of final construction activities. Optimum seeding times are in the spring from March 15 May 15 and in fall from September 15 October 15. If construction is completed during mid-summer,

seeding may be done if watering will be provided. After October 15 and up to March 15, mulch should be applied until the permanent seeding can be done during the recommended seeding dates.

- 8. Method of Seeding Seed shall be broadcast by hand or mechanically using a drop-hopper. The seed shall then be sown to depths of 0-0.25" using an ATV pulling a weighted drag of the same width as the ATV, with bolts inserted every 4-6" along its width in order to open up furrows in the soil of up to 0.25" in depth. The ATV should drag the seeded area a minimum of four (4) times.
- 9. Following the seeding operation, 10-10-10 fast release fertilizer shall be broadcast at a rate of 400 lbs/acre throughout the seeded area by hand or mechanically using a cyclone broadcaster. Seed shall be watered as recommended by the seed manufacturer to achieve specified growth coverage.
- 10. Mulching straw of oat or wheat stalks shall be applied at a rate of 2 tons per acre (100-200 bales/acre). Hay is not acceptable due to its high weed content.
- 11. Acceptable seeding will be 85% coverage of the open area with the seeded species. Any area not meeting this requirement shall be reseeded with the original seed mix.

## L. <u>Final Acceptance</u>

Trees, shrubs and herbaceous plants must be thriving. Planting beds must be evenly mulched and free of invasive nonnative plant species. Paving/landscape interface must be a smooth, crafted transition free from defects such as gaps, sharp edges or sudden level changes.

## M. Final Cleanup

At time of final inspection of work, and before final acceptance, clean any paved areas that are dirty or stained due to work of this Section by sweeping or washing, and remove any defacements or stains. Remove construction equipment, excess materials and tools. Remove from site any debris and dispose of off-site, in accordance with all local laws, and at the Contractor's expense. The Contractor shall also cut all perimeter grass and weeds before final acceptance.

## N. Wetland Plantings:

### 1. <u>Installation</u>

The Contractor shall complete all work in the best manner, so that the work as a whole is of uniform quality and appearance. The Contractor shall conform to the requirements specified hereafter. Plant material scheduled for planting in coconut fiber logs shall also be rooted and potted in coconut fibers, and not in potting soil. This requirement shall serve to safeguard against plants floating out of coconut fiber logs due to the washing away of potting soil.

- a. At the elevations described and shown on the plans, the areas shall be fine graded, prepared for planting and landscaped.
- b. Subgrade shall be kept free of waste material and debris. Subgrade shall be compacted prior to topsoil application at the Engineer's direction.
- c. Remove stones over 1-1/2 inches in any dimension, as well as sticks, rubbish and other extraneous matter.
- d. The planting areas shall be worked up well, and shall be free of other vegetation and large clods of soil.
- e. Install erosion control mat.
- f. Apply fertilizer at rate specified in Contract Drawings during planting and seeding operations.

### 2. Erosion Control Blankets

- a. Center a blanket in the bottom of the wetland area and anchor the erosion control blankets in a minimum 8" x 8" slot using five evenly spaced staples. Unroll blankets carefully in the direction of water flow, being careful to place blankets loosely and in full contact with the soil.
- b. Overlap blanket edges approximately 4" with downstream edges over upstream edges.
- c. Staple blankets using approximately 3 staples per square yard.
- d. Overlap blanket ends 6" in a minimum 8" x 8" check slot, upper blanket over lower blanket and staple using five evenly spaced staples.

- e. Cut excess blanket with scissors and anchor at the entrance to the weir/micro pool in a minimum 8" x 8" check slot with five evenly spaced staples.
- f. Blanket shall not float or 'bubble' anywhere after wetland is inundated with water.

## 3. Planting Operations

- a. Layout: All plants shall be laid out in random and naturalistic arrangements, as specified in the Contract Drawings unless otherwise directed by the Engineer. All plant and planting area locations shall be staked prior to planting by the Engineer. Place no plantings within two (2) feet of pavements or structures, unless otherwise indicated.
- b. When planting containerized wetland plants, care shall be taken so as not to set the plants in water where there is in excess of 3" 4" of water between the top of plant and the water surface. When planting dormant wetland plants, care shall be taken so as not to set the plants in water where there is in excess of 12" 14" of water between the top of plant and the water surface.
- c. When planting containerized or tube wetland plants, care shall be taken so to set the plants in the water regime noted on the Contract Drawings plant schedule.
- d. Rototill/cultivate soils to a depth equal to the depth of the root ball and two times the diameter of the root ball. Set the tree/shrub on the solid ground in the center of the area.
- e. Obstructions Below Ground: remove any rock, rubble, masonry, concrete, metal, stones over one inch in diameter or other underground obstructions to the depth necessary to permit proper planting.
- f. Disposal: Remove and dispose of all excess excavations and unsuitable materials. Dispose in accordance with all local laws and regulations at Contractor's cost.
- g. The storm sewers tributary to outfalls should not be put into service for 6 to 8 weeks after completion of the associated wetland plantings. This will permit the wetland plantings to establish themselves.

## Measurement and Payment

O.

The quantity to be measured for payment under this section shall be the total amount of trees, shrubs, herbaceous plants and seeded areas furnished, planted and maintained.

The contract price per unit for Landscaping Work shall be as indicated on the BID SCHEDULE OF PRICES Payment Item Nos. BMP-7.401A, BMP-7.401H, and BMP-7.401J inclusive. The price bid shall be a separate unit price per tree, shrub and herbaceous plant specified within the Contract Drawings, and shall include the costs of all excavating and preparing planting pits and beds, adding soil amendments, furnishing plants, digging, inspecting, planting, pruning, staking, guying, anchoring, wrapping, mulching, fertilizing, furnishing seed, seeding, liming, discing, raking, tilling harrowing, mowing, material, and maintaining all plant material and seeded areas. The price bid shall also include the costs of all rough and fine grading, all specified soils necessary and required for the satisfactory completion of all landscaping work and all other work incidental thereto in accordance with the plans and specifications to the satisfaction of the Engineer.

### PLANT MATERIAL SUMMARY FOR LANDSCAPING WORK

Item	Description	Pay Unit
BMP-7.401-A BMP-7.401-H	Canopy Trees (2 ½" - 3" Caliper) Shrubs	EA EA
BMP-7.401-J	Herbaceous Plants (Plugs)	EA

\* \* \* \* \*

12/1 <u>}</u> **50** 9/15 | 10/15 10/15 Sep Planting, Transplanting and Seeding Schedule 9/15 Aug Ą **Terrestrial and Wetland Zone** Division VII - Detailed Specifications - Contract Landscaping and Restoration Work June May 5/15 5/15 Apr 4/1 a E Jan Feb Container-Grown Herbaceous Material Permanent Seeding Deciduous Material Evergreen Material

Dec

S File: 6300/Camestro FiglSc1-PlantingSchedule.odr 9-11-06

7.402 <u>SOD</u>

NO TEXT ON THIS PAGE

### 7.403 <u>TOP SOIL</u>

## A. <u>Description of Work</u>

Under this item, the Contractor shall prepare topsoil areas and shall furnish, place and incorporate topsoil in accordance with the plans and specifications or as directed by the Engineer.

The Contractor shall be liable for any damage to property caused by topsoiling operations and all areas of construction disturbed shall be restored to their original condition to the satisfaction of the Engineer.

## B. <u>Material</u>

Material shall consist of natural loam topsoil, free from subsoil. It shall be removed to a maximum depth of one (1) foot, or until subsoil is encountered. Topsoil shall be of uniform quality, friable, free from hard clods, stiff clay, hard pan, partially disintegrated stone, stones larger than one (1) inch diameter, lime, cement, ashes, slag, concrete, tar residues, tarred paper, gasoline, motor oil, or other petroleum hydrocarbons, boards, brush, weeds, stalks, roots, sods, chips, sticks or any other undesirable material. Invasive, nonnative seed shall not be allowed in the topsoil material.

All topsoil shall be tested by a New York State Cooperative Extension office or by an approved analytical laboratory with 3 years documented history of soil testing for state, city or county projects.

Topsoil from site stripping shall be tested prior to stripping. Soil test shall be performed per five (5) acres and at the extremes of elevations. After site topsoil has been stripped, stockpiled, and amended per soil test results, the stockpiled topsoil shall be tested again. For imported and stockpiled topsoil, soil tests shall be required and shall serve as a representative analysis for every 200 cubic yards of material utilized.

Topsoil shall comply with the following requirements: No topsoil shall be delivered in a frozen or muddy condition.

1. Organic Content: Topsoil shall contain a minimum four (4) percent organic matter and a maximum of fifteen (15) percent organic matter determined by loss, on ignition, of moisture-free samples dried in accordance with the current method of the Association of Official Agricultural Chemists. The acidity range shall be pH 5.5 to pH 6.5 inclusive.

2. <u>Nutrient Content</u>: Magnesium, nitrogen, potassium, phosphorus levels, and soluble salts.

Range		nge	<u>Nutrient</u>
4	_	8 (PPM)	Phosphorus (P)
66	_	100	Magnesium (Mg)
115	_	164	Potassium (K)
0.36	-	0.75	Boron (B)
0	_	49	Iron (Fe)
0.5	_	1.0	Zinc (Zn)
85	-	120	Nitrogen (N)

Soluble salts shall be less than 2.5 millisiemens.

- 3. <u>Total Petroleum Hydrocarbon Content</u>: Topsoil shall be tested for total petroleum hydrocarbons (TPH) by the Gravimetric-Hexane Method, as approved by the US Environmental Protection Agency. Topsoil shall contain less than 150 ppm total petroleum hydrocarbons. All soil testing positive shall be rejected and removed from the site.
- 4. Sieve Analysis: (By Wash Test, ASTM C117)

The mechanical analysis of the soil shall be as follows:

Passing 2" sieve 100%
Passing 1" sieve 95% to 100%
Passing #4 sieve 90% to 100%
Passing #100 sieve 30 % to 60%

- 5. <u>Electrical Conductivity:</u> Topsoil should have a maximum electrical conductivity of 1,000 micromhos/centimeter.
- 6. <u>Invasive, Nonnative Plant Species</u>: Topsoil shall be free of invasive nonnative plant propagules or if present, topsoil shall be sterilized with documentation.

When topsoil otherwise complies with the requirements of the specifications but shows an organic matter deficiency of not more than one (1) percent, organic matter may be incorporated when and as permitted by the Engineer.

The Contractor shall at the direction and discretion of the Engineer, or when quantities exceed two hundred (200) cubic yards, furnish a certified report of an approved analytical chemist showing the analysis of

representative samples of the topsoil which he/she proposes to use. All samples are to be taken by the Engineer and delivered to the laboratory. The price bid shall include inspection and laboratory charges. No topsoil shall be delivered until the approval of samples by the Engineer, but such approval shall not constitute final acceptance. The Engineer reserves the right to reject on or after delivery any material which does not, in his/her opinion, meet these specifications.

The Engineer reserves the right to reject topsoil in which more than sixty (60) percent of the material passing the No. 100 U.S.S. mesh sieve consists of clay as determined by the Buoyoucous Hydrometer or by the decantation method. All percentages are to be based on dry weight of sample. If the Engineer directs, topsoil which varies only slightly from the specifications may be made acceptable by such corrections as the Engineer deems necessary.

## C. <u>Preparation of Topsoil Areas</u>

Before any topsoil is placed, the subgrade shall be graded to a smooth, uniform surface, parallel to and below finished grade, the depths of which are shown on the plans or as directed by the Engineer. The subgrade surface shall be compacted with an approved roller weighing approximately five hundred (500) pounds. Hollows, depressions and gullies shall be filled with acceptable material free from stones over one (1) inch in diameter, cinders, rubbish and other unsuitable material. Fill which is four (4) inches or more in depth shall be compacted to the satisfaction of the Engineer.

All bumps, mounds, and ridges shall be cut down to subgrade elevations as shown in the Contract Drawings. All areas of the subgrade that are not in a friable condition shall be loosened to a depth of twelve (12) inches as directed by the Engineer. All surplus material and debris shall be removed and disposed of as directed by the Engineer.

## D. Spreading

Topsoil for upland areas shall be spread and compacted to the overall depth of that which exists within the restoration area or to three (3) inches, whichever is greater. Topsoil for wetland areas shall be spread and compacted to the overall depth of that which exists within the wetland area or to six (6) inches, whichever is greater. The contractor shall use the lightest equipment appropriate to spread and compact the topsoil. Topsoil shall not be handled when, in the opinion of the Engineer, it is too wet.

Topsoil for backfilling planting pits and planting beds shall be mixed with compost having the general properties of humus in the following proportions:

Two (2) parts of topsoil to one (1) part of compost. They shall be thoroughly mixed by placing the compost evenly over the topsoil piles and turning the piles at least three (3) times or until thoroughly mixed to the satisfaction of the Engineer.

Topsoil mixed on-site must be tested by the Contractor and have a pH of 5.5-6.5.

The finish grade shall not be excessively compacted. Finish grade to 12" below soil surface shall be loose, friable soil and not excessively compacted to the satisfaction of the Restoration Specialist. Maximum acceptable compaction is to 83% of the standard (AASHTO) Proctor maximum dry density. Conversely, soil shall not be so loose that there is potential for extensive settlement, slumping, soil erosion, or excessive drainage. On-site compaction tests, if required, shall be a standard test such as Nuclear Density Meter, or Sand Cone, or Balloon Density performed at contractor expense. After finish grading, and prior to installation of any erosion control fabric, planting, seeding, the Restoration Specialist shall inspect extent of soil compaction. Restoration Specialist shall re-inspect extent of compaction after completion of all site work. If required, Contractor will be required to loosen top 12" of soil to the satisfaction of the Restoration Specialist.

## E. Mycorrhizal Inoculants

All trees and shrubs planted in areas receiving topsoil from off-site sources or on-site topsoil stored more than one (1) year shall be inoculated with Mycorrhizal Inoculants.

### F. Measurement and Payment

The quantity of topsoil to be paid for under this item shall be the number of cubic yards of topsoil furnished from off-contract site sources (i.e. suppliers approved by the engineer), mixed, placed and incorporated in the completed work in accordance with the plans and specifications to the satisfaction of the Engineer, measured in trucks used for delivery, at the site of the work. The quantity of topsoil to be paid for under this item shall be measured in cubic yards in trucks used for delivery. No topsoil shall be furnished until ordered by the Engineer. (No deductions shall be made except for the volume of topsoil displaced by balls of trees, except in paved areas). Delivery ticket with name and address of vendor, date, and estimated volume must be supplied to the Engineer prior to truck measurement.

The bid price shall be a unit price per cubic yard of topsoil, and shall include the cost of all labor, materials and equipment necessary to prepare topsoil areas, furnish, mix, place and incorporate topsoil and compost, and all other work incidental thereto, in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No.ItemPay UnitBMP-7.403TopsoilCY

\* \* \* \*

## 7.404-A <u>RESTORATION SPECIALIST (CONSTRUCTION MONITOR)</u>

### A. <u>Description of Work</u>

The Contractor is advised that the portions of work within this Contract pertaining to the construction of the outfall and all other work in the project area shall require the supervisory expertise of a Restoration Specialist. The Restoration Specialist shall supervise all restoration work performed by the Contractor and his/her Subcontractors for the duration of the project, in accordance with the plans, specifications and directions of the Engineer. The Restoration Specialist shall also be responsible for overseeing the implementation of the project's soil erosion control plan. In addition, the Restoration Specialist shall be cognizant of all conditions of the NYSDEC tidal wetlands permit for the project, as they relate to work in the wetlands. Furthermore, the Restoration Specialist shall be responsible for overseeing all installation of plant material. The Restoration Specialist shall be responsible for preparing a restoration plan for any property disturbed by sanitary or storm sewer construction. The Restoration Specialist shall report to the NYCDDC, as represented on-site by the Engineer, its agents, or the Engineer. The qualifications of the Restoration Specialist shall be approved by the NYCDDC and on-site prior to the start of any work.

## B. Qualifications

The Restoration Specialist utilized to perform the work required must have performed at least three (3) projects similar in scope and type to the required work in the previous five years. The Restoration Specialist shall be a Registered Landscape Architect or have equivalent professional experience. Prior to the start of work, the Contractor shall be required to submit the names and resumes of at least three prospective candidates to the NYCDDC. The NYCDDC shall approve the qualifications of the prospective candidates or alternatively ask for more choices, if the NYCDDC deems the candidates to be not qualified.

## C. <u>Site Monitoring</u>

The Restoration Specialist shall monitor the Contractor's in-place erosion and sediment control devices, including, but not limited to, construction (limiting) fences, siltation fences, staked straw bales, etc., and shall notify the Contractor when maintenance or repair of these devices is necessary. The Restoration Specialist shall monitor related/adjacent construction to insure that these activities do not adversely impact restoration activities or the success of the restoration work.

### D. Restoration Supervision

The Restoration Specialist shall supervise all aspects of the work including Wildlife Control and removal, in-stream sediment removal work, plant and sod salvage, and perimeter restoration work. The Restoration Specialist shall oversee all landscaping activities including installation of plant material related to the outfall work area.

### E. <u>Design and Design Review</u>

The Restoration Specialist shall prepare, design and review design work as needed during construction. This work shall include but not be limited to the following:

- a. research and prepare design revision/modification drawings,
- b. research and prepare revisions/modifications to detailed specifications,
- c. prepare supplemental field sketches,
- d. review and critique design modification drawings and supplemental drawings.

The Restoration Specialist shall undertake this work when directed by the NYCDDC as represented on-site by the Engineer.

### F. Photo Documentation

The Restoration Specialist shall keep a digital photograph log of the project. The photo log will follow the progress of the project, in a clear and understandable progression, and shall incorporate before, in progress and completed photographs of the work area and natural area restorations within the project. Fixed photopoints shall be used at each site to ensure that before and after photographs are taken from the same location and angle. The photo log will be utilized by DDC for required reports, etc.

The Restoration Specialist shall use a digital camera with a minimum resolution of 4.1 megapixels for use during all phases of the project for photo-documentation purposes. The Restoration Specialist shall assemble the completed photo log onto CD's and transmit the complete photo log to the Engineer.

### <u>DIVISION VII - DETAILED SPECIFICATIONS</u> Monitoring Reports

The Restoration Specialist shall prepare and submit a Monitoring Report to the Engineer following the completion of all planting and associated restoration activities. The Restoration Specialist shall continue to submit an annual Monitoring Report until the guarantee period(s) for the plant material has expired. Six (6) copies of each report submittal shall be required.

The Restoration Specialist shall examine, monitor and report on the various components of the restoration and shall incorporate color photographs, color photocopies, graphs, etc., as appropriate. All information shall be reported in a concise format. The Monitoring Report shall:

- report on all construction activities related to landscaping and restoration,
- report the conditions of the vegetation planted within this Contract,
- quantify survival and cover rates and compare to permit requirements,
- recommend replacement species,
- report observed impacts to existing vegetation,
- report success rates in controlling erosion and sedimentation,
- report voluntary recruitment,
- present recommendations,
- give general commentary for increasing the success of future restoration projects.

# H. <u>As-Built Plans and Information</u>

G.

The Contractor shall be responsible for providing to the Restoration Specialist an as-built survey of all areas as an electronic file. The Restoration Specialist shall verify the Contractor's information and include his/her landscape information and any other additional planting or natural features.

Measurement and Payment

I.

The quantity to be measured for payment under this section shall be the total number of hours necessary for the supervision of all restoration work within this Contract, site monitoring, design and diagram review, photo documentation, preparation of monitoring reports and completion of the as-built plans in accordance with the plans, specifications and direction of the Engineer, performed prior to the date of Substantial Completion.

Payment to the Restoration Specialist for all required work, including work performed both during active construction and after the date of Substantial Completion through the end of the three year Maintenance and Guarantee Period, shall be made during the period of active construction up to and including the date of Substantial Completion. There will be no transfer of contract monies during the Maintenance and Guarantee Period.

As the post-construction site monitoring, monitoring report preparation, and other related work must be undertaken and prepared during the three-year Maintenance and Guarantee Period, payment for this work shall be made by the Contractor to the Restoration Specialist prior to the Maintenance Guarantee Period.

For supplying all labor, materials and equipment necessary for Restoration Specialist, the Contractor shall receive a unit price bid.

The unit price bid shall include the costs for all labor, materials, equipment and incidental expenses necessary or required to complete the work in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item Pay Unit

BMP-7.404-A Restoration Specialist

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No separate or additional payment will be made for work performed in accordance with the requirements of this section during the Maintenance and Guarantee Period specified for the Landscaping work. In addition, said work shall be considered a part of the Maintenance and Guarantee and subject to the provisions thereof should the Contractor fail to complete this work as specified.

\* \* \* \* \*

7.404B <u>EROSION AND SEDIMENT CONTROL LICENSED/CERTIFIED</u> <u>PROFESSIONAL</u>

7.405 <u>VECTOR, PEST AND WILDLIFE CONTROL</u>

7.406 <u>WOOD CHIPS</u>

## 7.407-A <u>EROSION CONTROL MAT</u>

### A. <u>Description of Work</u>

Under this item, the Contractor shall furnish and place erosion control mat for slope protection within areas designated on the plans or where directed by the Engineer.

### B. Material

The Erosion Control Mat shall meet the following requirements:

Netting One Side Only,

Organic Leno Weave Jute, 100% Biodegradable

0.5" x 1.0" opening

Matrix 100% Agriculture Straw

 $0.55 \text{ lbs/yd}^2$ 298.4 g/m<sup>2</sup>

Thread 1.5" stitch space,

Biodegradable

Index Value Properties

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	$10.00 \text{ oz/yd}^2$
Thickness	ASTM D6525	.40 in
Tensile Strength-MD	ASTM D6818	106 lb/ft
Elongation-MD	ASTM D6818	16.7%
Tensile Strength-TD	ASTM D6818	118 lb/ft
Elongation-TD	ASTM D6818	26.8%
Light Penetration	ASTM D6567	6%
Water Absorption	ASTM D1117	322%
Unvegetated Shear Stress	ASTM D6460	1.55 lbs/ft <sup>2</sup>
Slope	,	3:1 or flatter

The Erosion Control Mat shall be manufactured by East Coast Erosion Blankets, Bernville, PA, or approved equal.

Wire Staples shall consist of 12-inch lengths of No. 11 gauge wire bent to form a "U" or other wire staples as approved.

### C. Method

Erosion control mat shall be placed on topsoil perpendicular to slope contours where directed by the Engineer. Erosion control mat shall be laid without stretching so that it lies loosely on the soil and in contact with the soil at all points and shall be pressed firmly into the soil surface by rolling or tamping. If seeding is required, it shall be done prior to the installation of the erosion control mat.

The upper end of each roll of erosion control mat shall be turned and buried to a depth of six (6) inches, with the soil firmly tamped against it. Erosion control matting shall have a minimum lap of six (6) inches on all sides. Ends of rolls shall also have a minimum lap of six (6) inches with the upgrade section on top.

Check slots shall be constructed at intervals of 50 feet, unless otherwise directed by placing a fold of erosion control mat six (6) inches vertically into the ground with replaced soil tamped firmly against it.

Erosion control mat shall be held tightly to the soil by staples driven firmly into the ground. Staples shall be spaced not more than three (3) feet apart, along the sides and center of the erosion control mat and not more than one (1) foot apart at roll ends, check slots and at other critical areas as determined by the Engineer.

## D. <u>Maintenance</u>

The Contractor shall maintain the areas of erosion control mat installation until final acceptance of the contract. Maintenance shall consist of providing protection for erosion control mat and repair of areas damaged by equipment, erosion, fire, or other causes, as well as re-establishment of the grade and conditions of the area as specified.

## E. <u>Measurement and Payment</u>

The quantity to be measured for payment under this Section shall be the number of square feet of surface area on which erosion control mat has been installed in accordance with the plans and specifications and directions of the Engineer.

The bid price shall include the costs for all labor, material, equipment and incidental in accordance with the plans and specifications to the satisfaction of the Engineer.

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# **DIVISION VII - DETAILED SPECIFICATIONS**

Payment will be made under:

Item No. Item Pay Unit

BMP-7.407-A Erosion Control Mat

\* \* \* \* \*

7.408 <u>HERBICIDE APPLICATION</u>

7.409 <u>MYCORRHIZAL INOCULANTS</u>

# 7.410 <u>PLANT PROTECTION FENCE</u>

# 7.411 WATERING AND WEEDING DURING GUARANTEE PERIOD

# 7.412 <u>SLOPE STABILIZATION</u>

# 7.413 <u>TEMPORARY GOOSE EXCLUSION FENCE</u>

7.414 <u>BMP AS-BUILT PLANS</u>

# 7.415 <u>VINE AND INVASIVE PLANT REMOVAL</u>

# 7.416 <u>GALVINIZED CHICKEN WIRE</u>

## 7.417 <u>DEBRIS EXCLUSION FENCE</u>

#### A. <u>Description of Work</u>

The Contractor shall furnish all materials, labor, and equipment necessary to install the debris exclusion fence specified herein and as shown on the Contract Drawings, including all incidental and appurtenant work required for a complete job.

The debris exclusion fence shall protect recently installed plant material from water borne debris and wrack. The Contractor shall maintain the debris exclusion fence in good condition and make repairs, as necessary and as directed by the Engineer, during the landscaping and plant guarantee period and the monitoring period required for the NYSDEC and ACOE wetland permits (typically 5 years). At the end of the permit monitoring period, the Contractor shall remove the debris exclusion fence form the site.

### B. <u>Materials</u> and Methods

The debris exclusion fence shall be constructed with the following materials:

- A. Furnish saltwater wire netting as follows:
  - 1. 18 gage galvanized wire
  - 2. 1.5 inch mesh opening
  - 3. Galvanized after weaving
- B. Posts: Furnish posts of the minimum sizes and weights as follows, 8-foot long, 2-inch square oak posts. Space posts 5 feet on center maximum, unless otherwise shown.
- C. For connecting oak posts together Contractor shall use minimum 16 gage high tensile wire. The ties shall be rust resistant.
- D. Ties: For attaching netting to oak posts, use 16 inch high tensile polyethylene cable tie strips. For attaching netting to wire grid, use 1/8 inch high tensile polyethylene cable tie strips. All ties shall be ultraviolet light resistant.
- E. Line posts shall be spaced 5-feet on center maximum, unless otherwise shown.

The fence shall conform to the detail for Construction limit fence on the Contract drawings.

The debris exclusion fence shall be located where indicated on the Contract Drawings.

## C. <u>Maintenance</u>

The debris exclusion fence shall be inspected periodically (at least once per week), or as directed by the Engineer through the plant guarantee period. Any required repairs shall be made immediately.

### D. <u>Measurement and Payment</u>

The quantity to be measured for payment under this Section shall be the total number of linear feet of debris exclusion fence furnished, installed and maintained in accordance with the Plans and Specifications and the directions of the Engineer.

The unit price per linear foot shall include all labor, materials, equipment and work incidental expenses necessary or required to complete the work in accordance with the plans and specifications and to the satisfaction of the Engineer. The cost of removal and disposal of the debris exclusion fence shall be deemed included in the unit price bid.

Payment will be made under:

Item No. Item Pay Unit

BMP-7.417 Debris Exclusion Fence LF

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7.418A <u>SAND</u>

### 7.420 <u>TYPICAL GUTTER AND CHUTE RESTORATION</u>

#### A. <u>Description of Work</u>

The Contractor shall provide all material, labor, and equipment necessary to restore the cobblestone gutter and cobblestone chute as specified and shown on the Contract Drawing and reference in New York State Department of Transportation (NYSDOT) Standard Specification Section 624 - Paved Gutters.

#### B. Material

- 1. The cobblestone shall be made of rounded "Hardheads," from 5-7/8 inches to 10-1/16 inches in diameter.
- 2. The mortar for the cobblestone shall be composed of one part NYSDOT Type 1 or Type 2 cement 701-01 (Portland cement) and NYSDOT 703-07 concrete sand.
- 3. The rip-rap for the cobblestone chute shall have a  $d_{50}$  equal to 6 inches. The rip-rap shall be a well-graded mixture with 50% by weight larger than the specified design size. The diameter of the largest stone size in such a mixture shall be 1.5 times the  $d_{50}$ .
- 4. Stones for rip-rap shall be hard, durable quarry materials and free of decomposed stone, clay, rock dust, and other objectionable material. Existing stone walls and broken concrete or recycled stone shall not be used as stones. Broken concrete is not acceptable.

### C. <u>Installation</u>

#### **Gutter Restoration**

- 1. Existing gutter cobblestone shall be removed and reset. The largest stones shall be selected and set along the inner edge and center of the gutter. All cobblestones shall be embedded in mortar.
- 2. All cobblestones shall have close joints and be installed by skilled workmen using regular paving tools.
- 3. The cobblestones shall be thoroughly rammed into place and brought to match existing grade.
- 4. The joints shall also be made of mortar. The mortar shall completely fill the joints after being tamped.

#### Chute Restoration

- 1. The existing concrete chute shall be removed and replaced with a concrete lined cobblestone chute.
- 2. Rip-rap shall extend from the concrete chute to the mean high water line.
- 3. The concrete chute shall be placed with a minimum 0.5% slope.
- 4. The cobblestone block placed within the base of the chute shall be placed to provide positive drainage from the road towards the bay.
- 5. All cobblestones shall be embedded in mortar, have close joints and be installed by skilled workmen using regular paving tools.
- 6. The cobblestones shall be thoroughly rammed into place and brought to a uniform surface.
- 7. The joints shall also be made of mortar. The mortar shall completely fill the joints after being tamped.

### D. Measurement and Payment

For removing and resetting the cobblestone gutter in accordance with the plans, specifications and directions of the Engineer, the Contractor shall receive the unit price bid. For removing and replacing the concrete chute in accordance with the plans, specifications and directions of the Engineer, the Contractor shall receive a separate unit price bid.

The unit price bids shall include the costs for all labor, materials, equipment and incidental expenses necessary or required to complete the work in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No.ItemPay UnitBMP-7.420CRChute RestorationEABMP-7.420GRGutter RestorationEA

\* \* \* \* \*

#### 7.500 SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

Under soil erosion and sedimentation control work, the Contractor shall provide all labor, materials, tools and equipment necessary to complete the execution of the work in complete accordance with the Specifications and all Contract Drawings. All soil erosion and sedimentation control work shall be done in conformance with and subject to the New York State Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity, GP-0-10-001, the latest edition of the "New York State Standards and Specifications for Erosion and Sediment Control" prepared by the NYS Soil and Water Conservation Committee, and the New York State Department of Transportation Standard Specification Part 107-12 – Water Quality Protection, including, but not limited to, the following methods of erosion and sedimentation control.

- 1. Slopes left exposed shall, within 15 working days of completion of any phase of grading, be planted or otherwise provided with ground cover device, or structures sufficient to restrain erosion.
- 2. A ground cover sufficient to restrain erosion must be planted or otherwise provided within 15 working days on that portion of the tract (disturbed area) upon which further active construction is not being undertaken.

The Contractor shall submit for approval by the Engineer, NYCDDC, and NYSDEC, a written Erosion and Sedimentation Control Plan, prepared by a Professional Engineer (P.E.) or a Certified Professional in Erosion and Sediment Control (CPESC). The Erosion and Sediment Control Plan must be signed and sealed in accordance with the requirements set forth by NYSDEC. The Plan shall comply with all conditions of the applicable wetland permit issued by NYSDEC.

The Erosion and Sedimentation Control Plan shall conform to the guidelines as set forth in the latest edition of the "New York Guidelines for Urban Erosion and Sediment Control" published by the Empire State Chapter of the Soil and Water Conservation Society and he/she shall implement the followings:

- No stockpiling of excavated material would be allowed in a manner or location that would permit erosion and its subsequent sedimentation in wetlands or other natural areas.
- No storage of soil shall be permitted within the Contract limits.
   Soil is deemed to be for this requirement any sediment including material

such as topsoil fill, sand, any excavated material, boulders, stones, cold patch, etc.

- Storm sewers will be installed in a sequence and manner that reduces the time during which the tops of excavated areas would be exposed and vulnerable to erosion.
- At the end of each day's work, the street where sewers are being installed will be cleaned and swept to reduce the amount of soil that could potentially impact downstream areas as sediment. The Contractor shall be required to have a street sweeper on the site.
- Use truck tracking pads at the construction access locations to remove sediment from the tires of the trucks and other construction equipment prior to driving on the adjacent streets.
- Utilize sediment basins, sediment traps and/or sediment filters in the erosion control plan to capture sediment form run-off and from water produced by dewatering operations.
- Use portable sediment tanks to remove sediment from water generated by dewatering operations. All water from dewatering shall be treated before discharge into any surface water bodies, unless the turbidity of the effluent is less than three times the ambient level of the receiving water body as measured by the turbidity meter in standard units (i.e. NTU's).
- The Contractor shall supply all portable equipment.
- Use construction limiting fence, staked hay bales, and/or silt fence as shown on Contract Drawings, unless otherwise directed by the Engineer.
- Schedule work in wet areas, such as the outfall sites, during relatively dry conditions, such as low tide.
- Employ water diversions to direct the stream away from the area being worked on, so as to create drier conditions for in-stream work.
- Use temporary pumping sump to control water level at site.
- Prior to the start of construction activities, such as sewer installation, inspect all erosion control measures and continually monitor them, especially after each storm event.

- If Permittee uses dewatering methods which produce effluent
- discharges, Permittee shall monitor each discharge effluent and receiving water body. Discharges shall not cause substantial visible contrast to the natural condition in any receiving water body. A meter which records turbidity in standard units (i.e. NTUs) shall be utilized to establish ambient conditions in each water prior to discharge. If any monitored turbidity level exceeds three times the ambient level of the receiving water body, the Permittee shall insure (e.g., by reducing the flow rate or otherwise adjusting the dewatering system) that no substantial visible contrast to the natural condition in the receiving water body occurs. The action(s) taken, or the decision not to take any action, shall be recorded in the monitor's log.

Installation of the Erosion and Sedimentation features and maintenance of them will result in payment for their respective items as described in Section 7.504A through 7.511.

The work shall include items of work specified under the following sections:

Section Number	Title
BMP-7.504A	Silt Fence
BMP-7.510	Portable Sediment Tank
BMP-7.511	Storm Drain - Inlet Protection

Payment for the Storm Water Pollution Prevention Plan

The payment for the Storm Water Pollution Plan shall be in accordance with the measurement and payment section NYCDOT Standard Specifications, Section 9.30 unless modified by this Addendum. The measurement and payment shall exclude payment for silt fencing and portable sediment tank to be implemented and used for the outfall construction within the easement as shown on the Contract Drawings. Silt fencing and portable sediment tanks shall be paid in accordance with the specifications included herein.

\* \* \* \* :

7.501 <u>MAINTENANCE OF EROSION CONTROL MEASURES</u>

# 7.502 <u>CONSTRUCTION LIMIT FENCE</u>

7.503 <u>STAKED STRAW BALES</u>

### 7.504A <u>SILT FENCE</u>

### A. <u>Description of Work</u>

The Contractor shall furnish all materials, labor, and equipment necessary to construct silt fence specified herein and as shown on the Contract Drawings, including all incidental and appurtenant work required for a complete job.

Upon furnishing and installing the approved silt fence but prior to commencing any other work on-site, the Contractor shall notify the Engineer and arrange for an on-site inspection.

The silt fence shall be maintained in good condition and repaired as necessary by the Contractor during the construction and post-construction/site stabilization phases as directed by the Engineer.

## B. <u>Materials and Methods</u>

1. <u>Welded Wire Fence:</u> The welded wire fence shall be a welded wire fence with a minimum height of 20 inches. The fence shall be constructed of wire fabric fastened to the middle rails and to vertical line posts.

Wire fabric shall be of No. 6 gauge wire with a mesh of approximately 2 inches. The upper edge of the fabric shall be twisted and barbed. The fabric shall be securely fastened to vertical line posts by means of ties and spaced not more than 12 inches apart on rails and not more than 14 inches apart on line posts.

The construction (limiting) fence shall be located where indicated on the Contract Drawings. The fence shall be adjusted to avoid interference with trees and to maintain access to houses.

Line posts shall be spaced not more than 6 feet on centers. Posts shall be securely set in the ground. Line posts shall extend at least 16 inches below finished grade. Post locations shall be adjusted to avoid tree roots as appropriate.

2. <u>Filter Fabric:</u> Filter fabric shall be securely attached to the vertical line posts and wire fabric, and shall be situated between the wire fabric and staked straw bales.

The filter fabric shall be purchased and delivered in a continuous roll and cut on-site to the length of the barrier(s) to avoid the use of joints. Dimensions of the roll shall be thirty-six (36) inches by one

hundred (100) feet in length. When joints are necessary, filter cloth shall be spliced together only at a line post, with a minimum 6-inch overlap, and securely sealed. The filter fabric shall meet NYSDOT specifications on same, and shall be fabric MUTUAL MISF 1776 as manufactured by Mutual Industries Inc., Fabric # GTF190 as manufactured by Linq Industrial Fabric, Fabric # 2130 as manufactured by Propex, or approved equal.

A trench shall be excavated approximately 6 inches wide and 6 inches deep along the line of posts and upslope from the barrier. The filter fabric shall be extending into the trench, the trench backfilled, and the soil compacted over the filter fabric.

Siltation fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

## C. <u>Maintenance</u>

The silt fences shall be inspected periodically (at least once per week), or as directed by the Engineer. Any required repairs shall be made immediately.

Filter fabric shall be inspected at least once per week and immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately. Should the fabric decompose or become ineffective prior to the end of the expected usable life while the barrier is still necessary, the fabric shall be replaced promptly.

### D. <u>Measurement and Payment</u>

The quantity to be measured for payment under this section shall be the total number of linear feet of Silt Fence, installed and maintained in accordance with the plans, specifications and directions of the Engineer. The construction (limiting) fence and filter fabric which together make up the silt fence shall be measured as <u>one</u> erosion and sediment control feature.

The bid price shall constitute full compensation for all labor, materials and equipment and incidental expenses necessary to complete the work in accordance with the plans and specifications and to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item

Pay Unit

# <u>DIVISION VII - DETAILED SPECIFICATIONS</u> BMP-7.504A Silt Fence

LF

7.505 : <u>SAND BAGS</u>

7.506 <u>SEDIMENT TRAP WITH FILTER</u>

7.507 <u>SEDIMENT FILTER</u>

7.508 <u>SEDIMENT BASIN</u>

7.509 <u>STABILIZED CONSTRUCTION ENTRANCE</u>

### 7.510 PORTABLE SEDIMENT TANK

### A. <u>Description of Work</u>

The Contractor shall furnish all materials, labor and equipment necessary to install the portable sediment tank specified herein and as shown on the Contract Drawings. A sediment tank is a compartmented tank container through which sediment laden water is pumped to trap and retain the sediment.

The purpose of the portable sediment tank is to trap and retain sediment prior to discharging the water to wetlands, adjoining properties and rights-of-way below the sediment tank site. The sediment tank shall be located for ease of cleanout and disposal of the trapped sediment and to minimize the interference with construction activities and pedestrian traffic. The temporary relocation of the tank(s) during clean-out shall be included in the cost of this item. Relocating the tank(s) from one work area to another before, during and after construction shall be included in the cost of this item.

### B. <u>Design Criteria</u>

The following formula should be used in determining the storage volume of the sediment tank: pump discharge (gpm)  $\times 16 = \text{cubic foot storage}$ .

Certified pump curves are to be provided to ensure that the pump provided can meet the hydraulic requirements.

### C. Tank Specifications

The Contractor shall use steel containers with baffles to provide that the volume requirements necessary.

### D. <u>Maintenance</u>

The Contractor shall be responsible to clean out the sediment tank when it is filled with 6 inches of silt. All sediment collected in the tank shall be disposed of off-site.

### E. <u>Measurement and Payment</u>

The quantity to be paid for under this item shall be the number of portable sediment tanks placed in accordance with the plans and specifications to the satisfaction of the Engineer, measured in number of above items at the site of the work.

The Contract price per unit for portable sediment tanks shall be as indicated on the BID SCHEDULE OF PRICES, Item No. BMP-7.510. The bid price shall be a unit price per portable sediment tank and shall include the cost of all labor, materials and equipment necessary to furnish, place and incorporate and all other work incidental thereto, in accordance with the plans and specifications to the satisfaction of the Engineer.

No separate payment shall be made for the work of this specification for the outfall construction. The cost for all labor, materials and equipment required to install a portable sediment tank to be used during construction of the outfalls shall be deemed included in the price bid for the outfalls as follows:

51.61F001	Outfall #1 – Manor Road
51.61F002	Outfall #2 - Westmoreland Place
51.61F003	Outfall #3 – Knollwood Avenue
51.61F004	Outfall #4 – Bayview Avenue
51.61F005	Outfall #5 – West Drive

### 7.511 STORM DRAIN - INLET PROTECTION

### A. <u>Description of Work</u>

The Contractor shall furnish all materials, labor and equipment necessary to install the storm drain - inlet protection measures. Storm drain inlet protection measure consists of a sediment filter, sediment control device or an excavated impounding area around a storm drain drop inlet, curb inlet or catch basin. The purpose of the storm drain - inlet protection measures is to prevent sediment from entering storm drainage systems prior to permanent stabilization of the disturbed area.

### B. <u>Conditions Where Practice Applies</u>

Where storm drain inlets are or are to be made operational before permanent stabilization of the corresponding disturbed drainage area.

### C. <u>Planning Considerations</u>

Storm sewers which are, or become operational prior to stabilization of the associated drainage areas can convey large amounts of sediment to natural waterways. In case of extreme sediment loading, the storm sewer itself may clog and lose a major portion of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets or capturing it in the storm drain inlet.

This practice contains several types of inlet filters and traps which have different applications dependent upon site conditions and type of inlet. Other innovative techniques for accomplishing the same purpose are encouraged, but only after specific plans and details are submitted to and approved by the Engineer.

Care shall be taken when choosing a specific type of inlet protection. Field experience has shown that inlet protection which causes excessive ponding in an area of high construction activity may become so inconvenient that it is removed or bypassed, thus transmitting sediment-laden flows unchecked. In such situations, a structure with an adequate overflow mechanism should be utilized.

The best way to prevent sediment from entering the storm sewer system is to stabilize the site as quickly as possible, preventing erosion and stopping sediment at its source.

Stone is utilized as the chief ponding/filtering agent in most of the inlet protection types described in this specification. The various types of

"coarse aggregates" which are depicted are able to filter out sediment mainly through slowing down flows directed to the inlet by creating an increased flow path for the stormwater (through void space in the respective stone). The stone filtering medium by no means slows stormwater flow rate as does filter cloth and therefore cannot provide the same degree of filter efficiency when smaller silt and clay particles are introduced into stormwater flows. However, as mentioned earlier, excessive ponding in busy areas adjacent to stormwater inlets is in many cases unacceptable - that is why stone must be utilized with many installations.

Fortunately, in most instances, inlet protection utilizing stone should not be the sole control measure. At the time that storm sewer inlet and associated appurtenances become operational, areas adjacent to the structures are most likely at final grade or will not be altered for extended periods; this is the time when temporary seeding and other appropriate controls should be implemented to enhance sediment-loss mitigation. In addition, by varying stone sizes used in the construction of inlet protection, a greater degree of sediment removal can be obtained. As an option, filter cloth can be used with the stone in these devices to further enhance sediment removal. Notably, the potential inconvenience of excessive ponding must be examined with these choices, especially the latter. In addition to sediment filtering options a sediment control device can be installed. A sediment control device is installed inside the storm drain thereby catching sediment that was not removed by the inlet filters while allowing water to pass through. A sediment control device is a secondary device to be used in conjunction with other storm drain inlet protection.

### D. <u>Design Criteria</u>

- 1. The drainage area shall be no greater than 1 acre.
- 2. The inlet protection device shall be constructed in a manner that will facilitate cleanout and disposal of trapped sediment and minimize interference with construction activities.
- 3. The inlet protection devices shall be constructed in such a manner that any resultant ponding of stormwater will not cause excessive inconvenience or damage to adjacent areas or structures.
- 4. For the inlet protection devices which utilize stone as the chief ponding/filtering medium, a range of stone sizes is offered; AASHTO M.43 #3, #357, or #5 Coarse Aggregate shall be used.

- 5. In all designs which utilize stone with a wire-mesh support as a filtering mechanism, the stone can be <u>completely wrapped</u> with the wire mesh to improve stability and provide easier cleaning.
- 6. Filter Fabric is added to any of the devices which utilize "coarse aggregate" stone to significantly enhance sediment removal. The fabric shall be secured between the stone and the inlet (on wiremesh if it is present). As a result of the significant increase in filter efficiency provided by the fabric, a larger range of stone sizes (NYSDOT #1, #2 or #3 Coarse Aggregate) may be utilized with such a configuration. The larger stone will help keep larger sediment masses from clogging the cloth. Notably, significant ponding may occur at the inlet if filter cloth is utilized in this manner.
- 7. <u>Sediment Control Device</u> is a woven polypropylene bag which is inserted into a catch basin or drop inlet to capture sediment. The sediment control devices are equipped with lifting loops or lugs to allow the devices to be removed, cleaned and reinserted back into catch basin or drop inlet.

### E. <u>Construction Specifications</u>

### 1. Gravel and Wire Mesh Drop Inlet Sediment Filter

- a. Wire mesh shall be laid over the drop inlet so that the wire extends a minimum of 1 foot beyond each side of the inlet structure. Wire mesh with 2-inch openings shall be used. If more than one strip of mesh is necessary, the strips shall be overlapped.
- b. Coarse aggregate shall be placed over the wire mesh as indicated on Plate A. The depth of stone shall be at least 12 inches over the entire inlet opening. The stone shall extend beyond the inlet opening at least 18 inches on all sides.
- c. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the inlet, cleaned and/or replaced.

Note: This filtering device has no overflow mechanism; therefore, ponding is likely especially if sediment is not removed regularly. This type of device must <u>never</u> be used where overflow may endanger an exposed fill slope. Consideration should also be given to the possible effects of ponding on traffic movement, nearby structures, working areas, adjacent property, etc.

### 2. <u>Block and Gravel Curb Inlet Sediment Filter</u>

- a. Two concrete blocks shall be placed on their sides abutting the curb at either side of the inlet opening.
- b. A 2-inch x 4-inch stud shall be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
- c. Concrete blocks shall be placed on their sides across the front of the inlet and abutting the spacer blocks as depicted in Plate B.
- d. Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Wire mesh with 2-inch openings shall be used.
- e. Coarse aggregate shall be piled against the wire to the top of the barrier as shown in Plate B.
- f. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and/or replaced.

### 3. Sediment Control Devices

- a. The sediment control device shall be manufactured from woven polypropylene and sewn using high strength nylon thread.
- b. The sediment control device shall be sized to fit a standard catch basin or drop inlet.
- c. The sediment control device shall include tie down straps (See Plate C).
- d. The sediment control device shall be manufactured or distributed by ACF Environmental Inc.; Drainage Solutions, Inc.; Price and Company; or approved equal.
- e. The fabric shall be woven polypropylene fabric with the following properties:

Property	Test Method	Test Result
Grab Tensile	ASTM D4632	265 lb to 300 lbs.
Grab Elongation	ASTM D4632	20%
Puncture	ASTM D4833	120 lbs.
Min. Mullen Burst	ASTM D3786	420 lbs
Min. Trapezoid Tear	ASTM D4533	120 lbs.
Min. UV Resistance	ASTM D4355	80%
Apparent Opening	ASTM D4751	20 to 40 US Sieve
Min. Flow Rate	ASTM D4491	40 Gal/Min/Ft <sup>2</sup>
Permittivity	ASTM D4491	0.55 sec. <sup>-1</sup>

### F. <u>Maintenance</u>

- 1. The structure shall be inspected after each rain and repairs made as needed.
- 2. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one half the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- 3. Structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized.
- 4. To empty the sediment control device place a #8 rebar through the lifting straps and lift out of the catch basin. This will lift and turn the device inside out thereby dumping its contents. Clean out and wash with water. Reinstalled once clean. Dispose sediment off site.

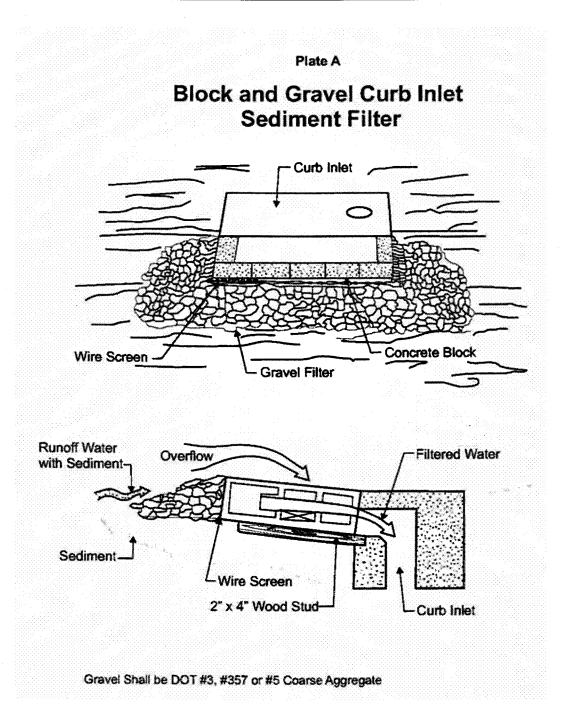
### G. <u>Measurement and Payment</u>

The quantity to be paid for under this Item shall be the number of storm drain inlet protection measures furnished and maintained in accordance with the Contract Plans, specifications and directions of the Engineer. The unit price per measure shall include all labor, materials, equipment and work in accordance with the plans and specifications and to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item Pay Unit

BMP-7.511 Storm Drain Inlet Protection EA



### Plate B

# Gravel and Wire Mesh Drop Inlet Sediment Filter

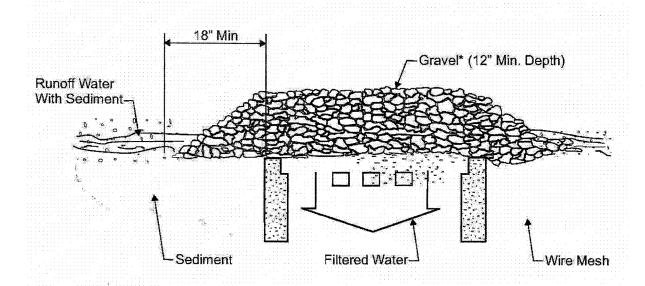
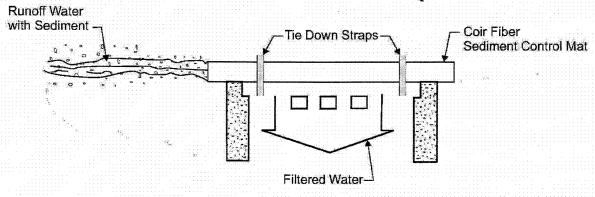


Plate C

# Drop Inlet Sediment with Control Device Tie Down Straps



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### PERIMETER SITE SECURITY/ACCESS CONTROL MEASURES

### 7.600 WORK INCLUDED

Under Perimeter Site Security and Access Control Measures, the Contractor shall provide all labor, material, tools and equipment necessary to complete the execution of the work in complete accordance with the Specifications and all Contract Drawings. The work shall include items of work specified under the following sections.

Section Number <u>Title</u>

7.602 Boulder Provision and Placement

7.614A Block Curb

\* \* \* \* \*

7.601C <u>STEEL BACKED TIMBER GUIDERAIL</u>

### 7.602 <u>BOULDER PROVISION AND PLACEMENT</u>

### A. <u>Description of Work</u>

Under this item, the Contractor shall furnish all material, labor and equipment necessary to place boulders throughout the contract area in accordance with the contract drawings and specifications as directed by the Engineer. In addition, the contractor will also furnish and deliver boulders as directed by the Engineer.

### B. <u>Materials and Construction Methods</u>

Boulders are stones with a diameter between 24" to 36" or 36" to 42" or as shown in the Contract Drawings.

Unless otherwise directed, the Contractor shall excavate a depression as directed by the Engineer prior to setting each boulder in place, in order to achieve a more natural appearance.

The Contractor shall carefully protect all trees, shrubs and other growth to remain and shall be liable for all damages to property caused by boulder placement operations. All trees, plants and other property damaged by boulder placement operations shall be replaced or restored to their original condition to the satisfaction of the Engineer at no additional cost to the City.

1. <u>Boulder Placement:</u> Boulders shall be placed along portions of the slope to tie into the existing stone wall. Boulders shall be set roughly parallel to the edge of road. Boulder locations shall be worked into and around existing plantings and natural features; any conflicts shall be brought to the attention of the Engineer prior to boulder placement. All boulder locations shall be marked out and shall be approved by the Engineer prior to placement.

Boulders shall be set in locations where they will achieve the intended design function, and shall be placed so as to harmonize with existing natural features and appear naturally set. All boulder locations shall be approved by the Engineer prior to placement.

### C. Measurement and Payment

The quantity to be paid for under this item shall be the number of approved boulders placed and incorporated in the completed work in accordance with the plans and specifications to the satisfaction of the Engineer.

The bid price shall be a unit price per boulder and shall include the cost of all labor, materials and equipment necessary to furnish, place and incorporate and all other work incidental thereto, in accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item No. Item Pay Unit

BMP-7.602 Boulders EA

\* \* \* \* \*

# 7.603 <u>FIXED AND REMOVABLE STEEL PIPE BOLLARDS</u>

7.604 <u>BLACK CHAIN LINK FENCE</u>

7.605 SIGN INSTALLATION ON STEEL RAIL POSTS

7.606 <u>PERMANENT ACCESSWAY WITH CONCRETE PAVERS OR GRAVEL</u>

7.607 <u>HERBIVORE EXCLUSION FENCE</u>

7.608 SURVEY BOLLARDS AND SURVEY MONUMENTS

7.609 <u>CURB PLATE</u>

7.610 <u>CURB PLATE INSTALLATION</u>

# 7.611 <u>CEDAR SPLIT RAIL FENCE</u>

7.612 <u>BRONZE PLAQUE</u>

7.613 <u>SPLIT RAIL FENCE</u>

### 7.614A <u>BLOCK CURB</u>

### A. <u>Description of Work</u>

Under this item, the Contractor shall furnish and place Block Curb in accordance with Contract drawing and specifications and as directed by the Engineer.

### B. <u>Materials</u>

Blocks shall be granite block grade 1 in accordance with the NYCDOT Standard Highway Specifications, Section 2.06. The Block Curb shall be installed so the longest length is vertical.

The blocks shall be cut so that opposite faces will be approximately parallel and adjoining faces approximately at right angles to each other. Blocks shall be so dressed that they may be laid with one inch (1") joints. All blocks shall have on reasonably smooth split head.

The Contractor may reuse existing block upon the approval of the Engineer.

# C. <u>Samples</u>

The Contractor shall furnish two (2) samples of blocks before starting work for approval by the Engineer. Blocks used on the work shall conform to the approved samples in all aspects, in the opinion of the Engineer.

### D. <u>Installation</u>

The Contractor shall trim and roll the subgrade to smooth, uniform lines to the satisfaction of the Engineer, prior to placing the blocks. The block shall be placed in a 3000 psi concrete curb as per the detail on the Contract drawing.

### E. Measurement and Payment

The quantity of Block to be paid for under this item shall be the total number of linear feet furnished and installed in accordance with the plans, specifications and directions of the Engineer.

The bid price shall include the excavation and concrete curb needed to place the Block Curb and the cost for all labor, material, equipment and incidental expenses necessary to complete the work including all materials, installation steps and submittals, included herein, all in

<u>DIVISION VII - DETAILED SPECIFICATIONS</u> accordance with the plans and specifications to the satisfaction of the Engineer.

Payment will be made under:

Item

Item No.

Pay Unit

BMP-7.614A Block Curb

LF

### SECTION 51.61 F OUTFALL STRUCTURES

#### 51.61 F.1 DESCRIPTION

(A) The outfall structures shall be constructed of the sizes and dimensions and to the lines and grades and within the limits of payment as shown, specified or ordered.

### 51.61 F.2 MATERIALS

- (A) Concrete shall comply with the requirements of General Specification 11 Concrete, as modified in this Addendum 4, Section 7.103. Concrete shall contain entrained air of six (6%) percent.
- (B) Reinforcement shall comply with the requirements of General Specification 11 Concrete, as modified in this Addendum 4, Section 7.104.
- (C) Structural steel shall comply with the requirements of New York City Bureau of Water and Sewer Operations Department of Environmental Operations Standard Sewer Specifications (Sewer Specifications) Section 2.19.
- (D) The cement used for outfall structure (including headwalls and reinforced concrete sewer outfalls) shall be Type-V cement. (This shall not include cement for concrete cradles and encasements, chambers, manholes, catch basins and precast reinforced concrete pipes for sewers, such cement shall be Type-II.)
  - In lieu of Type-V cement, the Contractor will be permitted to utilize Type-II cement with the addition an approved pozzolan. Types of additives utilized must have been previously approved by New York State Department of Transportation.
- (E) Reinforced concrete sewers, precast reinforced concrete pipe sewers, vitrified pipe sewers and ductile iron pipe sewers shall comply with the requirements of Sewer Specifications Sections 5.01, 5.02, 5.03 and 5.04 respectively except as otherwise amended in the plans and specifications.
- (F) Chambers, manholes, drop-pipe manholes, catch basins and catch basin connections shall comply with the requirements of Sewer Specification Sections 5.06, 5.07, 5.08, 5.09 and 5.13 respectively except as otherwise amended in the plans and specifications.
- (G) Rip-rap shall comply with the requirements of this Addendum 4, Section 7.107-B.
- (H) Boulders shall comply with the requirements of this Addendum 4, Section 7.602.
- (I) Pipe collar stone facing shall comply with the requirements of this Addendum 4, Sections 7.103, 7.104, 7.202, 7.203 and 7.204.

- (J) Geogrid shall comply with the requirements of this Addendum 4, Section 7.109A.
- (K) Perforated PVC underdrain pipe shall comply with the requirements of New York State Department of Transportation Standard Specification Section 605.
- (L) Select Granular fill shall comply with the requirements of this Addendum 4, Section 7.308A.

### 51.61 F.3 CONSTRUCTION METHOD

(A) GENERAL - The outfall structures shall be constructed "in the dry". The Contractor's means and methods of construction for the outfall structure shall be submitted, prior to the start of work, to the Engineer for written approval.

The Contractor shall be required to submit plans, details and other substantiating data as necessary to establish the adequacy of the Contractor's proposed means and methods of construction. These documents shall be prepared under the direction of and be signed and sealed by a Professional Engineer licensed to practice in the State of New York.

- (B) GENERAL CONSTRUCTION PROVISIONS The requirement of Sewer Specifications DIVISION IV GENERAL CONSTRUCTION PROVISIONS shall apply to the work to be done hereunder.
- (C) The concrete for the footings, cradles, encasements, inverts, etc. shall be deposited continuously for the entire cross section and for such longitudinal distances as approved.
- (D) The concrete for the walls, headwalls, etc. shall be deposited continuously to the height, to the thickness and for such longitudinal distances as approved.
- (E) Boulder Placement Boulders are placed to tie into existing rock revetments as required and approved by the Engineer. The Contractor shall remove all debris and clean and prepare the existing ground, and shall excavate the existing surface to the depth required in order to install the boulder where shown, specified or as ordered. Boulders shall be placed in compliance with all permits and as shown, specified or ordered. Dropping of boulders into place will not be permitted.
- (F) Rip-rap Placement Rip-rap is placed to prevent scour and erosion at sewer outfalls. The Contractor shall remove all debris and clean and prepare the tidal flat/existing ground, and shall excavate the existing surface to the depth required in order to install the boulder protection where shown, specified or as ordered. Rip-rap aprons and protections shall be placed in compliance with all permits and as shown, specified or ordered. The layer of rip-rap shall be placed in order to obtain a minimum of voids between stones. Dropping of rip-rap into place will not be permitted.

### 51.61 F.4 PRICE TO COVER

The contract price for "OUTFALLS" shall be the unit price bid per each outfall Α. structure and shall cover the cost of all labor, materials, plant, equipment, insurance, samples, tests, and incidentals required or necessary to construct the outfall structure "in the dry" to the lines, grades, sizes, dimensions and within the limits of payment shown on contract drawings, including, but not limited to, the earth excavation of all materials of whatever nature encountered (See Sewer Specifications Section 4.03 - Earth Excavation); all sheeting and bracing; temporary steel sheet piling; reinforcement and structural steel; pumping; fluming; bridging; breaking down and filling in of abandoned sewer appurtenances; connections; maintaining flow in sewers; backfilling; fill for grade; preparation of shop drawings and all other required means and methods of construction reports and drawings; obtaining of necessary permits and special construction requirement for constructing "in the dry"; cleaning up; and furnishing and installing all other items necessary to complete this work and do all work incidental thereto, all in accordance with the plans and specifications and as directed by the Engineer.

Also, included in the bid price for the outfall structure shall be the cost of all labor, materials and equipment necessary and required to construct the sewers with encasements and foundations; chambers, manholes and catch basins with foundations; headwalls and foundations; retaining walls; core drilling into the retaining wall; rip-rap for aprons and protections; boulders to tie into existing rock revetment; concrete pipe collar, stone facing; temporary measures, such as cofferdams and portable sediment tanks; select granular fill; removing and replacing the timber retaining wall; AASHTO No. 57 stone; geogrid and geogrid connection; 6" perforated PVC underdrain pipe; installing the sidewalk; all dredging required for placement of stone ballast, rip-rap, rip-rap aprons, boulders, etc.; to remove all specified or ordered existing sewers, manholes, bulkheads, debris and appurtenances that may be in the line of the work in accordance with Sewer Specifications Subsections 1.06.12 and 1.06.27 of the specifications; and all other work shown, specified or ordered. No separate payment will be made for the above work within outfall limits. The cost shall be deemed included under the unit price bid for the respective outfall bid items.

### Payment will be made under:

Item No.	Description	Pay Unit
51.61F001	OUTFALL NO. 1	EACH
51.61F002	OUTFALL NO. 2	EACH
51.61F003	OUTFALL NO. 3	EACH
51.61F004	OUTFALL NO. 4	EACH
51.61F005	OUTFALL NO. 5	EACH

# END OF ADDENDUM NO. 4

(This Addendum consists of two hundred eight (208) pages)

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

MARCH 24, 2014

**ADDENDUM NO. 5** 

**PROJECT ID: HWQ985** 

# ROADWAY IMPROVEMENTS IN SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

**INCLUDING SEWER AND WATER MAIN WORK** 

Together With All Work Incidental Thereto BOROUGH OF QUEENS CITY OF NEW YORK

SPECIFICATIONS FOR
HANDLING, TRANSPORTATION AND DISPOSAL
OF NONHAZARDOUS AND POTENTIALLY HAZARDOUS
CONTAMINATED 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.

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# ITEM 8.01 C1 HANDLING, TRANSPORTING AND DISPOSAL OF NON-HAZARDOUS CONTAMINATED SOILS

#### 8.01 C1.1 WORK TO INCLUDE

General: This work shall consist of the handling, transportation and disposal of non-hazardous 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 shall be defined as any material excavated below the pavement and base for pavement.

Non-hazardous contaminated soils are defined as soils exhibiting one or more of the following characteristics:

- ♦ Elevated Photo-Ionization Detector (PID) readings, subsequently confirmed by lab analysis
- Visual evidence of contamination
- Petroleum and/or chemical odors
- ♦ Soils that have been documented as contaminated in previous environmental reports

Non-hazardous contaminated soils must be stockpiled at an off-site approved location or secured onsite by the Contractor, meeting all required Federal, State and Local stipulations. Sampling and laboratory analysis must be conducted to determine if the soils are hazardous, unless the alternative procedure as defined under subsection 8.01 C1.1 A.5 has been agreed upon by treatment facilities. Contaminated soils determined to be non-hazardous shall be handled in accordance with the specifications herein for Item 8.01 C1. Contaminated soils determined to be hazardous shall be handled in accordance with the specifications for Item 8.01 H – Handling, Transporting and Disposal of Hazardous Soils.

The Contractor shall retain the services of an independent Environmental Consultant, as specified under Item 8.01 S – Health and Safety, to oversee the work required under this Item.

Non-hazardous soils shall be delivered to the disposal or treatment facility within thirty (30) calendar days after excavation.

The Contractor shall conduct sampling and analysis of the impacted soils as specified under Item 8.01 C2 – Sampling and Testing of Contaminated/Potentially Hazardous Soils for Disposal Parameters. The laboratory results shall be forwarded to DDC Program Administration, Engineering Support Services (ESS) for review to determine if the soils will be handled and disposed of as contaminated regulated soils or hazardous waste. No other soils shall be sampled or tested without the DDC's approval or direction.

The Contractor shall ensure that all operations associated with the handling, sampling, loading, transportation, and disposal of non-hazardous contaminated soils are in compliance with all applicable Federal, State, and City statutes and regulations.

The Contractor shall document the excavation, handling, transportation and disposal of non-hazardous contaminated soils. The Contractor shall supply all equipment, material and labor required to conduct the specified work of this Item.

A. <u>Material Handling Plan</u>: Within forty-five (45) calendar days after award of Contract, the Contractor shall submit to the Program Administration, ESS for review, a Material Handling Plan (MHP). The MHP must be approved by the Program Administration, ESS, prior to the Contractor's commencement of work. The MHP shall, at a minimum, consist of:

- 1. The Contractor's procedures for identifying non-hazardous 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 non-hazardous contaminated soils. The procedures must include personnel safety and health as well as environmental protection considerations.
- 3. Name, address, New York State Department of Health's (DOH) Environmental Laboratories Accreditation Program (ELAP) status and telephone number of the proposed laboratory for analysis of representative soil samples. The ELAP for the intended analysis must approve the laboratory.
- 4. Identification of the Contractor's proposed waste transporter(s). This information shall include:
  - a. Name and Waste Transporter Permit Number
  - b. Address
  - c. Name of responsible contact for the hauler
  - d. Telephone number for the contact
  - e. Any and all necessary permit authorizations for each type of waste transported
  - f. Previous experience in performing the type of work specified herein
- 5. 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 or treatment 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.
- 6. A backup facility should the staging/stockpile areas become unavailable, insufficient in area or not be present by some other unforeseen difficulty.
- 7. Identification of the Contractor's two proposed Treatment Storage or Disposal (TSD) facilities for non-hazardous contaminated soils (primary and back-up) for final disposal of the soils. The primary TSD shall be an approved soil recycling/treatment facility. The backup facility may be a recycling/treatment facility or a New York State Department of Environmental Conservation (DEC) approved lined landfill or other facility approved by DEC to accept this material. The information required for each facility shall include:
  - a. Facility name and the State identification number
    - (1) Facility location
    - (2) Name of responsible contact for the facility
    - (3) Telephone number for contact
    - (4) Signed letter of agreement to accept waste as specified in this contract
    - (5) Unit of measure utilized at 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 shall specify and describe the disposal/containment unit(s) that the proposed facility will use to manage the waste. The Contractor shall identify the capacity available in the units and the capacity reserved for the subject waste.
- e. The Contractor shall 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 shall be provided. The source and nature of the cause of violation shall be stated, if known.
- 8. Description of all sampling and field/laboratory analyses that will be needed to obtain disposal facility approval.

#### 8.01 C1.2 MATERIALS

- A. Containers shall be as required in the United State Department of Transportation (DOT) regulations.
- B. Polyethylene to be placed under (20 mil. thickness minimum) and over (10 mil. thickness minimum) soil piles.
- C. The Contractor shall assure that the waste hauler's appropriate choice of vehicles and operating practices shall prevent spillage or leakage of contaminated material from occurring en route.
- D. The Contractor shall provide, install and maintain any temporary loading facilities on site as required until completion of material handling activities. The location and design of any facilities shall be included in the MHP and be approved by the Program Administration, ESS.

#### 8.01 C1.3 CONSTRUCTION DETAILS

#### A. Material Handling

- 1. Immediately after excavation of non-hazardous contaminated soil the Contractor shall:
  - a. Load material directly onto trucks/tankers/roll offs for disposal off site; or
  - b. If interim stockpiling is required, place on a minimum of 20 mil. or equivalent plastic ground cloth and cover by minimum of 10 mil. polyethylene sheeting or equivalent to protect against leaching or runoff of contaminants into 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 weather. Grade surrounding surface to provide for positive drainage away from pile. Stockpile shall not exceed 100 cubic yards.
- 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
  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. 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 shall 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 flame ionization detector (FID), to detect general organic vapor levels at intervals of approximately fifty (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 or Treatment Facility

#### 1. General

- a. The Contractor shall furnish all labor, equipment, supplies and incidental costs required to transport contaminated material from the work area to the off-site disposal or treatment facility, and any other items and services required for transporting contaminated material for disposal at an off-site facility.
- b. The Contractor shall submit the name and location of the facility where an off-site scale is located. The Contractor shall also submit a plan to the DDC for review outlining procedures on controlling trucks leaving the work site and en-route to the off-site scale. The Contractor shall be responsible for tracking all material/vehicles from the site to the off-site scale.
- c. The Contractor shall provide to the DDC certified tare and gross weight slips for each load received at the accepted facility which shall be attached to each returned manifest.
- d. The Contractor shall coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule.
- e. The Contractor shall 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.
- f. The Contractor shall obtain letters of commitment from the waste haulers and the treatment, disposal or recovery facility to haul and accept shipments. The letter shall 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.
- g. The Program Administration, ESS shall review and approve waste profiles before transportation to the TSD facility.

#### 2. Hauling

a. The Contractor shall coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities shall also be measured and recorded upon arrival at the disposal or treatment facility. If any deviation between the two records occurs, the matter is to be reported immediately to the DDC and to be resolved by the Contractor to the satisfaction of the DDC.

- b. The Contractor shall 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 shall ensure that trucks are protected against contamination by properly covering and lining them with compatible material (such as polyethylene) or by decontaminating them prior to and between acceptances of loads.
- d. The Contractor shall be responsible for inspecting the access routes for road conditions, overhead clearance, and weight restrictions.
- e. The Contractor shall only use the transporter(s) identified in the MHP for the performance of work. Any use of substitute or additional transporters must have previous written approval from the Program Administration, ESS at no additional cost to the City.
- f. The Contractor shall develop, document, and implement a policy for accident prevention.
- g. The Contractor shall not combine contaminated materials from other projects with material from this project.
- h. No material shall be transported until approved by the DDC.

# 3. Off-Site Disposal

- a. The Contractor shall use only the facility(ies) identified in the MPH for the performance of the work. Substitutions or additions shall not be permitted without prior written approval from the Program Administration, ESS, and if approved shall be at no extra cost to the City.
- b. The Contractor shall 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 that the facility provides the stated treatment and/or disposal services.
- c. The DDC reserves the right to contact and visit the disposal or treatment 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 DDC in the same manner and with the same requirements as for the original facility(ies). This shall be done at no extra cost or delay to the City.
- e. The Contractor shall 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 shall be submitted to the DDC within four (4) business days following shipment, and within three (3) business days after notification of receipt of the facility. Any manifest discrepancies shall be reported immediately to the DDC and be resolved by the Contractor to the satisfaction of the DDC.

#### 4. Equipment and Vehicle Decontamination

a. The Contractor shall design and construct a portable decontamination station to be

- used to decontaminate equipment and vehicles exiting from the exclusion zone. The cost for this work will be paid under Item 8.01 S Health and Safety.
- b. Water generated during the decontamination process shall 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 non-hazardous contaminated soils shall be measured in tons. The tonnage will be determined by off-site truck scales, as per Subsection 8.01 C1.3.B1, that are capable of generating load tickets.

## 8.01 C1.5 PRICE TO COVER

- A. The unit bid price bid per ton for Item 8.01 C1 shall include the cost of furnishing all labor, materials, plant, equipment, 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 shall be paid for under Item 8.01 H Handling, Transporting and Disposal of Hazardous Soils. Disposal of decontamination water shall 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 shall 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 PARAMETERS

#### 8.01 C2.1 WORK TO INCLUDE

#### A. Description

The work shall consist of collecting and analyzing representative soil samples for parameters typically requested by the disposal facilities.

### B. Sampling and Laboratory Analysis

- 1. At least thirty (30) days prior to the commencement of work, the Contractor's independent Environmental Consultant must submit a Soil Sampling Plan/Field Sampling Plan (SSP/FSP) to the Program Administration, Engineering Support Services (ESS) for review and approval. The plan shall include the name, address, DOH's ELAP status, and telephone numbers of the proposed laboratory. The plan shall also include training and experience of the personnel who will collect the samples.
- The Contractor shall sample and analyze representative samples of the 2. contaminated/potentially hazardous soils. For stockpiled soils, the Contractor shall collect and analyze one (1) composite sample per 100 cubic yards or fraction thereof. Each composite sample shall consist of a minimum of five (5) grab samples collected from greater than two (2) feet below the soil surface. For drummed soil, the Contractor shall collect one (1) composite sample per (ten) 10 drums or fraction thereof. Each composite sample shall consist of a grab sample from each of the ten (10) drums or fraction thereof. Each composite sample shall be analyzed for Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics (Ignitability, Reactivity, Corrosivity), Full Toxicity Characteristic Leaching Procedure (TCLP) (including RCRA metals, volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), pesticides, herbicides), Total Petroleum Hydrocarbons (TPH) and Polychlorinated Biphenyls (PCBs). All samples collected should be analyzed on a rush four (4) calendar days turn around time and analytical results must be submitted to Program Administration, ESS within five (5) calendar days after sample collection.
- 3. All sampling shall be conducted by a person trained in sampling protocols using standard accepted practices for obtaining representative samples.
- 4. The Contractor must also 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 shall be included in the bid price of this Item.
- 5. The quality of the data from the sampling program is the Contractor's responsibility. The Contractor must furnish all qualified personnel, equipment and instruments necessary to carry out the sampling. Unless directed otherwise, all sampling procedures must follow the DEC sampling guidelines and protocols.
- 6. All sample containers shall be marked and identified with legible sample labels which shall 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 shall be tracked from laboratory issuance of sample containers through laboratory receipt of the samples.

- 7. The Contractor shall maintain a bound sample logbook. The Contractor shall provide DDC access to it at all times and shall turn it over to the DDC in good condition at the completion of the work. The following information, as a minimum shall be recorded to the log:
  - 1. Sample identification number
  - 2. Sample location
  - 3. Field observation
  - 4. Sample type
  - 5. Analyses
  - 6. Date/time of collection
  - 7. Collector's name
  - 8. Sample procedures and equipment utilized
  - 9. Date sent to laboratory and name of laboratory
- 8. The City reserves the right to direct the Contractor to conduct alternative sampling in lieu of the parameters described in subsection B2, if the situation warrants. The substitute sampling parameters shall be of equal or lesser monetary value than those described in subsection B2, as determined by industry laboratory pricing standards.
- 9. 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.
- Soils exceeding any of the hazardous characteristic criteria meet the legal definition of hazardous soils (rather than non-hazardous contaminated soils) and shall be transported or disposed of under Item 8.01 H Handling, Transporting and Disposal of Hazardous Soils. 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.

# 8.01 C2.2 METHOD OF MEASUREMENT

Quantities for samples shall be measured as the number of sets of samples that are tested. A set shall be defined as one (1) composite sample analyzed for the full range of parameters as specified in subsection B2.

#### 8.01 C2.3 PRICE TO COVER

The unit price bid per set for Item 8.01 C2 shall include the cost of furnishing all labor materials, plant, equipment, and insurance necessary for sampling, handling, transporting, testing, documentation, fees, permits and any other incidentals necessary to complete the work as specified herein for sampling and testing of contaminated/potentially hazardous soil.

Payment will be made under:

ITEM NUMBER	ITEM	PAYMENT UNIT
8.01 C2	Sampling and Testing of Contaminated/ Potentially Hazardous Soil for Disposal Parameters	Set

#### ITEM 8.01 H HANDLING, TRANSPORTING, AND DISPOSAL OF HAZARDOUS SOILS

#### 8.01 H.1 WORK TO INCLUDE

General: This work shall consist of the handling, transportation and disposal of soils or materials that are listed as hazardous wastes or 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. For the purpose of this specification, soils shall be defined as any materials excavated below the pavement and base for pavement.

Contaminated soils determined to be hazardous under Item 8.01 C2 shall be handled, transported, and disposed of under Item 8.01 H in accordance with the specifications herein.

The independent Environmental Consultant retained by the Contractor, as specified under Item 8.01 S – Health and Safety, shall conduct sampling and analysis of above soils to determine which soils are hazardous.

All work under Item 8.01 H shall be performed under the direct supervision of the Contractor's Environmental Consultant, as approved by the Program Administration, Engineering Support Services (ESS).

The Contractor shall 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 shall document the excavation, handling, sampling, and testing, transportation and disposal of hazardous soils. The City shall be listed in the disposal documents as the waste generator.

The Contractor shall supply all equipment, material and labor required to conduct the specified work of this section.

The Contractor shall ensure that all operations associated with the handling, sampling, loading, transportation and disposal of hazardous soils are conducted in a manner to protect site personnel, the public and the environment, in accordance with all applicable Federal, State, and Local laws and regulations.

The Contractor shall 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 shall be disposed of under Item 8.01 W1 – Removal, Treatment and Discharge/Disposal of Contaminated Water.

- A. <u>Material Handling Plan</u>: Within forty-five (45) calendar days after award of Contract, the Contractor shall submit to the Program Administration, ESS for review, a Material Handling Plan (MHP). The MHP must be approved by the Program Administration, ESS, prior to the Contractor's commencement of work. The MHP shall, at a minimum, consist of:
  - 1. The Contractor's procedures for identifying contaminated/potentially hazardous soils during excavation, including instrumentation and calibration procedures to be used.
  - 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.
  - 3. Identification of the Contractor's proposed waste transporter(s). This information shall include:
    - a. Name and waste transporter permit number

- b. Address
- c. Name of responsible contact for the hauler
- d. Telephone number for the contact
- e. Any and all necessary permit authorizations for each type of waste transported
- f. Previous experience in performing the type of work specified herein
- 4. All staging/stockpiling areas (if stockpiling areas are intended and available), or alternate procedures that will be used. Alternate procedures could include, but are not limited to, agreements from the intended disposal or treatment 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 or the use of off-site stockpiling locations approved by the DEC.
- 5. A backup facility, should the staging/stockpile areas become unavailable, insufficient in area or not be present by some other unforeseen difficulty.
- 6. Identification of the Contractor's two proposed United State Environmental Protection Agency (EPA) or DEC approved RCRA TSD facilities for hazardous soils.
- 7. The Contractor shall submit the following information prior to any transportation of soils regarding the temporary and final off-site TSD or facilities where it is proposing to take hazardous soils. The expense of furnishing all information will be included in the Contractor's bid price:
  - a. General Information
    - (1) Facility name and the EPA 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
    - (6) Signed letter of agreement with a TSD for disposal of waste that may not be land-disposed
    - (7) Unit of measure utilized at each 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 as they pertain to receipt and management of wastes derived from this Contract.
  - c. A listing of all permits, licenses, letters of approval, and other authorizations to operate which have been applied for by the proposed facility.
  - d. The Contractor shall specify and describe the disposal/containment unit(s) that the proposed facility will use to manage the waste. The Contractor shall identify the capacity available in the units and the capacity reserved for the subject waste.
  - e. The Contractor shall provide the date of the proposed facility(ies) last compliance inspection under RCRA.

- f. A list of all active (unresolved) compliance orders, agreements, enforcement notices or notices of violations issued to the proposed facility shall be approved. The source and nature of the cause of violation shall be stated, if known.
- 8. Description of all sampling and analyses that will be needed to obtain disposal facility approval.

#### 8.01 H.2 MATERIALS

- A. Containers shall be watertight as required in the DOT regulations and must meet all applicable regulations including but not limited to those in Attachment 2.
- B. Polyethylene (20 mil. thickness minimum) to be placed under and (10 mil. thickness minimum) over soil piles. If soils are placed in drums, polyethylene must be placed over the drums.

#### 8.01 H1.3 CONSTRUCTION DETAILS

# A. Material Handling

- 1. The Contractor shall institute procedures to protect site personnel and the public from the non-hazardous and hazardous materials as described in Section 8.01 S Health and Safety.
- 2. The Contractor shall handle hazardous soil as approved in the MHP.
- 3. Stockpiled materials at the temporary TSD facility shall be handled according to the facility requirements but at a minimum: shall be drummed or placed on and covered with polyethylene to protect against erosion and leaching into surrounding soils, the stockpile area shall be graded for positive drainage away from the pile, and shall be labeled while being held for sampling prior to permanent disposal.
- 4. Provide any dewatering that is necessary to complete the work. Water shall be disposed of in accordance with Item 8.01 W1 Removal, Treatment and Discharge/Disposal of Contaminated Water.

#### B. Off-Site Transportation and Disposal

1. The Contractor shall furnish all labor, equipment and supplies required to transport hazardous materials from the work area to the off-site TSD facility(ies) and to acquire any other items and services required for transporting hazardous materials for storage and/or disposal at an approved off-site facility.

#### 2. Weight Measurement

- a. The Contractor shall submit the name and location of the facility where an off-site scale is located. The Contractor shall also submit a plan to the DDC for review outlining procedures on controlling trucks leaving the work site and on-route to the off-site scale. The Contractor shall be responsible for tracking all materials/vehicles from the site to the off-site scale.
- b. The Contractor shall provide to the DDC certified tare and gross weight slips for each load received at the accepted facility which shall be attached to each returned manifest.

#### 3. General

- a. Manifests: The Contractor shall organize and maintain the material shipment records/manifests required by law.
- b. The Contractor shall coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule. The schedule shall be compatible with the availability of equipment and personnel for material handling at the job site.
- c. The Contractor shall inspect all vehicles leaving the project site to ensure that hazardous soils adhering to the wheels or under carriage are removed prior to the vehicle leaving the site.
- d. The Contractor shall obtain letters of commitment from the waste haulers and the TSD facility to haul and accept shipments. The letter shall 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.

#### 4. Hauling

- a. The Contractor shall not deliver waste to any facility other than the TSD facility(ies) listed on the shipping manifest.
- b. The Contractor shall coordinate manifesting, placarding, of shipments, and vehicle decontamination. All quantities shall also be measured and recorded upon arrival at the TSD facility. If any deviation between the two records occurs, the matter is to be reported immediately to the DDC and to be resolved by the Contractor to the satisfaction of the DDC.
- c. The Contractor shall be held responsible, at its own expense, for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off-site.
- d. The Contractor shall ensure that trucks are protected against contamination by properly covering and lining them with compatible material (such as polyethylene) or by decontaminating them prior to any use other than hauling hazardous materials.
- e. The Contractor shall be responsible for inspecting the access routes for road conditions, overhead clearance, and weight restrictions.
- f. The Contractor shall only use the transporter(s) identified in the MHP for the performance of work. Only a transporter with a current Part 364 Waste Transporter Permit from the DEC may transport this material. Any use of substitute or additional transporters must have previous written approval from the DDC at no additional cost to the City.
- g. The Contractor shall develop, document, and implement a policy for accident prevention.
- h. The Contractor shall not combine hazardous materials from other projects with material from this project.
- i. The Contractor shall obtain for the City an EPA hazardous waste generator identification number and a representative of Program Administration, ESS will review and sign the manifest as the generator.

j. No materials shall be transported until approved by the DDC.

# 5. Off-Site Disposal

- a. The Contractor shall be responsible for acceptance of the materials at an approved TSD facility, for ensuring that the facility is properly permitted to accept the stated materials, and that the facility provides the stated storage and/or disposal services.
- b. 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 DDC in the same manner and with the same requirements as for the original facility(ies). This shall be done with no extra cost or delay to the City.
- c. The Contractor shall submit all results and weights to the DDC.
- d. The Contractor is responsible to pay <u>all fees</u> associated with the generation and disposal of all excavated hazardous waste. These fees include, but are not limited to, the <u>New York State Department of Finance and Taxation (DFT) quarterly fees</u> for hazardous waste and the <u>New York State DEC annual hazardous waste regulatory fee program</u>. The Contractor shall submit a copy of proof of payment to the DDC and Program Administration, ESS.
- 6. Equipment and Vehicle Decontamination

The Contractor shall design and construct a portable decontamination station to be used to decontaminate equipment and vehicles exiting from the exclusion zone. The cost for this work shall be paid under Item 8.01 S - Health and Safety. Disposal of decontamination liquids is described under Item 8.01 W1 - Removal, Treatment and Discharge/Disposal of Contaminated Water.

## 7. Record Keeping

The Contractor shall 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 shall be submitted to the DDC within four (4) business days following shipment, and within three (3) business days after notification of receipt of the facility. Any manifest discrepancies shall be reported immediately to the DDC and be resolved by the Contractor to the satisfaction of the DDC.

#### 8.01 H.4 METHOD MEASUREMENT

Quantities for hazardous soil shall be measured in tons satisfactorily delivered to the treatment, storage or disposal facility. The tonnage will be determined by off-site truck scales, as per subsection 8.01 H1.3.B.2, that are capable of generating load tickets.

#### 8.01 H.5 PRICE TO COVER

A. The unit price bid per ton for Item 8.01 H shall include the cost of furnishing all labor, materials, plant, equipment, and insurance for excavation, handling, transportation, disposal, documentation, permits, fees, taxes, stockpiling, hauling, and any other incidentals necessary to

- complete the work as specified herein for handling, transporting and disposal of hazardous soils.
- B. Final disposal of non-hazardous materials shall be paid for under Item 8.01 C1 Handling, Transporting and Disposal of Non-Hazardous Soils. Disposal of decontamination water shall be paid under Item 8.01 W1 Removal, Treatment and Discharge/Disposal of Contaminated Water.
- C The independent Environmental Consultant shall be paid under Item 8.01 S Health and Safety.
- D. Backfill will be paid for under its respective item.

Payment will be made under:

ITEM NUMBER	ITEM	PAYMENT UNIT
8.01 H	Handling, Transporting, and Disposal of Hazardous Soils	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 his work in a safe manner. The Contractor shall implement a Health and Safety Plan (HASP) for contaminated/hazardous soil intrusive activities as set forth in Occupational Safety and Health Administration (OSHA) Standards 1910.120 and 1926.650-652. The Contractor shall ensure that all workers have at a minimum hazard awareness training. The Contractor shall segregate contaminated work area in secured exclusion zones. These zones shall limit access to Contractor personnel specifically trained to enter the work area. The exclusion zone shall be set up to secure the area from the public and untrained personnel. The project health and safety program shall apply to all construction personnel including persons entering the work area. In addition, the Contractor shall protect the public from on-site hazards, including subsurface contaminants associated with on-site activities. The HASP shall be signed off by a Certified Industrial Hygienist and reviewed by Program Administration, Engineering Support Services (ESS).

Work shall 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 shall retain an independent Environmental Consultant to obtain all permits and perform all field screening, air monitoring, community air monitoring, soil sampling, and health and safety services. The independent Environmental Consultant shall at a minimum provide documentation to the Program Administration, ESS demonstrating the minimum requirements as set forth below:

- 1. The independent Environmental Consultant project supervisor on site and other designated key personnel shall have a minimum of three (3) years experience in the environmental field dealing with issues associated with contaminated soils. Such experience shall include oversight on environmental, specifically volatile organic compound and dust monitoring services as a routine part of its daily operations.
- 2. The independent Environmental Consultant must be experienced in work of this nature, size, and complexity and must have previous experience in working with the DEC.
- 3. The independent Environmental Consultant shall 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.
- 4. If conditions within the exclusion zone are deemed hazardous, then the Contractor and its independent Environmental Consultant shall 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 shall 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 shall be conducted by a qualified safety instructor. If conditions in the exclusion zone are deemed to be non-hazardous, the independent Environmental Consultant shall provide site specific training.
- 5. The Contractor shall ensure that on-site management and supervisors directly responsible for or who supervise employees engaged in hazardous waste operations shall 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 shall submit, within forty-five (45) calendar days after the contract award, a written HASP as specified herein, to Program Administration, ESS for review and comment. The Contractor shall make all necessary revisions required by Program Administration, ESS and resubmit the HASP to the Program Administration, ESS for acceptance. Start-up work for the project will not be permitted until written acceptance has been issued by the Program Administration, ESS.
- 2. Daily safety logs shall be maintained by the Contractor and shall be submitted to the DDC either on request or on completion of the work. Training logs shall be maintained by the Contractor and submitted to the DDC either on request or on completion of the work. Daily logs on air monitoring during excavation activities shall be prepared and maintained by the Contractor and submitted to the DDC either on request or upon completion of the work.
- 3. A closeout report shall be submitted by the Contractor to the DDC upon completion of the work within the defined exclusion zones. This report shall summarize the daily safety and monitoring logs and provides an overview of the Contractor's performance

- regarding environmental and safety issues. The report shall carefully document all areas where contamination has been found including pictures, addresses of locations, and potential sources.
- 4. Medical Surveillance Examinations: The Contractor shall submit to the DDC 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) shall be provided to the DDC for all construction personnel who are to enter the exclusion zones.
- 5. Accident Reports: All accidents, spills, or other health and safety incidents shall be reported to the DDC.

### D. Health and Safety Plan

The HASP shall comply with OSHA regulations 29 CFR 1910.120/1926.65. This document shall 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 control, dust control, vapor/odor suppression procedures
- 14. Identification of the nearest hospital and route
- 15. Confined space procedures
- 16. 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 shall include all labor, materials, equipment, and insurance necessary to complete the work in accordance with these specifications. The price bid shall 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 shall be included in the price of this item. Disposal of decontamination fluid shall be paid for under Item 8.01 W1 Removal, Treatment and Discharge/Disposal of Contaminated Water.

#### E. Spill Control

- 1. Payment shall 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 shall 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 Parameters or 8.01 H Handling, Transporting and Disposal of Hazardous Soils, as appropriate.

#### F. Dust Control

Payment shall 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 DOH Community Air Monitoring Plan (CAMP) may be used as guidance.

### G. Vapor/Odor Suppression

Payment shall 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 shall include 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 shall 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:

ITEM NUMBER	ITEM	PAYMENT UNIT
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 shall consist of the proper removal and disposal of all contaminated groundwater and decontamination water generated during construction operations. The Contractor shall 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 combined sanitary/storm sewer system or removing contaminated water for off-site disposal. The Contractor shall be responsible to choose a method compatible to the construction work and shall 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 shall 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 shall at a minimum provide documentation to the Program Administration, Engineering Support Services (ESS) demonstrating the minimum requirements as set forth below:

- 1. The Specialist shall 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 shall 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 DEC.
- 3. The Specialist shall 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 shall 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 shall 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 shall be conducted by a qualified safety instructor. If conditions in the exclusion zone are deemed to be non-hazardous, the Specialist shall be responsible to provide site-specific training to its employees and other affected personnel.
- 5. The Contractor shall ensure that on-site management and supervisors directly responsible for or who supervise employees engaged in hazardous waste operations shall 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 shall 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 shall 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 combined sanitary/storm sewer system, the Contractor shall ensure the Specialist treats the water to comply with the New York City Department of Environmental Protection (DEP) Sanitary/Combined and Storm Sewer Effluent Limit concentrations prior to discharge. The Contractor is responsible for providing settling or filtering tanks and any other apparatus required by DEP. 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 shall submit to the Program Administration, ESS for review, a Water Handling Plan (WHP). The WHP must be approved by the Program Administration, ESS, 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 combined sanitary/storm sewer or off-site disposal). The Contractor shall 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 combined sanitary/storm sewer or off-site disposal), the WHP shall include the information required in paragraphs A and B below, as appropriate.

- A. On-site treatment and discharge into New York City combined sanitary/storm sewers.
  - 1. Regulations: The Contractor shall comply with all applicable regulations. This includes but may not be limited to:
    - Title 15-New DEP 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 (DEP Division of Sewer Regulation and Control), if discharge to sewer exceeds 10,000 gallons per day.
    - c. The Contractor shall comply with DEC State Pollutant Discharge Elimination System (SPDES) Permit Number GP-0-10-001, General Permit for Stormwater Discharges.
    - d. Long Island well point permit for Brooklyn and Queens sites, if well points are used for dewatering.
    - e. Wastewater quality control application, DEP.
  - 3. The WHP for this portion of the work shall include at a minimum:

- a. Identification and design of Contractor's proposed treatment to assure that the water meets the DEP 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 shall supply all settling or filtering tanks, pumps, filters, treatment devices and other appurtenances for treatment, temporary storage and disposal of contaminated water. All equipment shall 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 DEP Sanitary/Combined and Storm sewer Effluent Limit concentrations. The quality of the data is the Contractor's responsibility. Any sampling and testing shall be conducted and paid in accordance with Item 8.01 W2 Sampling and Testing of Contaminated Water.
- e. The Contractor shall 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 DEC.

#### f. Disposal of Treatment Media

- (1) The Contractor shall be responsible for disposal or recycling of treatment media in accordance with all Federal, State and Local regulations.
- (2) The Contractor shall provide the DDC 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 shall not be considered as a separate pay item; instead it shall be considered as incidental work thereto and included in the unit price bid.

#### B. Off-Site Disposal

- 1. Regulations: The Contractor shall 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 shall be submitted to the DDC prior to initiating any off-site disposal:
  - a. (1) Name and waste transporter permit number
    - (2) Address
    - (3) Name of responsible contact for the hauler
    - (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 EPA 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 shall also be noted.
  - e. The Contractor shall 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 shall identify the capacity available in the units and the capacity reserved for the subject waste.
  - f. The Contractor shall 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 shall be submitted. The source and nature of the cause of violation shall be stated, if known. If groundwater contamination is noted, details of the facility's groundwater monitoring program shall 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 shall be as required in DOT regulations.

#### 4. Execution

#### a. General

- (1) The Contractor shall organize and maintain the material shipment records/manifests required by Federal, State and Local law. The Contractor shall include all bills of lading, certificates of destruction, recycling or treatment and other applicable documents.
- (2) The Contractor shall coordinate the schedule for truck arrival and material deliveries at the job site to meet the approved project schedule. The schedule shall be compatible with the availability of equipment and personnel for material handling at the job site.
- (3) The Contractor shall inspect all vehicles leaving the project site to ensure that contaminated liquids are not spilling and are contained for transport.
- (4) The Contractor shall obtain letters of commitment from the waste haulers and the treatment, disposal or recovery facility to haul and accept shipment. The letter shall 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 shall 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 shall be conducted and paid in accordance with Item 8.01 W2 Sampling and Testing of Contaminated Water.
- (7) The Contractor shall be 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 shall not deliver waste to any facility other than the TSD facility(ies) listed on the shipping manifest.

- (2) The Contractor shall coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities shall 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 DDC and shall be resolved by the Contractor to the satisfaction of the DDC.
- (3) The Contractor shall be held responsible for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off-site. This cleanup shall be accomplished at the Contractor's expense.
- (4) The Contractor shall be responsible for inspecting the access routes for road conditions, overhead clearance and weight restrictions.
- (5) The Contractor shall 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 DEC may transport this material. Any use of substitute or additional transporters must have previous written approval from the DDC at no additional cost to the City.
- (6) The Contractor shall develop, document, and implement a policy for accident prevention.
- (7) The Contractor shall not combine waste materials from other projects with material from this project.
- (8) The Contractor shall obtain for the City a hazardous waste generator identification number and will sign the manifest as the generator, if necessary.
- (9) No material shall be transported until approved by the DDC.

#### c. Disposal Facilities

- (1) The Contractor shall use only the TSD facility(ies) identified in the WHP for the performance of the work. Substitutions or additions shall not be permitted without prior written approval from the Program Administration, ESS, and, if approved, shall be at no extra cost to the City.
- (2) The Contractor shall 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 DDC 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 his 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 DDC in the same manner and with the same requirements as for the original facility(ies). This shall be done with no extra cost or delay to the City.

- d. Equipment and Vehicle Decontamination
  - (1) The Contractor shall design and construct a portable decontamination station to be used to decontaminate equipment and vehicles exiting the exclusion zone. The cost for this work shall 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 shall be on a per day basis.

# 8.01 W1.4 PRICE TO COVER

- A. The per day price bid for Item 8.01 W1 shall include the cost of furnishing all labor, materials, plant, equipment, 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 DEP Sewer Discharge Limits.

Payment will be made under:

ITEM NUMBER	ITEM	PAYMENT UNIT
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. <u>Description</u>

The work shall 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 DEP Sanitary/Combined and Storm Sewer Effluent Limit concentrations as listed in Attachment 1. The quality of the data is the Contractor's responsibility. Any additional testing required by the Federal, State and/or disposal facilities shall be included in the bid price of this Item.
- 2. All sampling and testing shall be conducted by a person trained in sampling protocols using accepted standard practices and/or the DEC sampling guidelines and protocols.
- 3. All sample containers shall be marked with legible sample labels which shall 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 shall be tracked from laboratory issuance of sample containers through receipt of the samples.
- 5. The Contractor shall maintain a bound sample log book. The Contractor shall provide the DDC access to it at all times and shall turn it over to the DDC in good condition at the completion of the work. The following information, as a minimum, shall 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 shall 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 DOH'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 DDC 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 shall 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 shall be measured as the number of sets of samples that are tested for the DEP Sanitary/Combined and Storm Sewer Effluent Limit concentrations. A set shall be defined as one (1) representative sample analyzed for the full range of DEP parameters as specified in attachment 1.

#### 8.01 W2.3 PRICE TO COVER

The unit price bid per set for Item 8.01 W2 shall include the cost of furnishing all labor, materials, plant, equipment, 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 shall be included in the bid price of this Item.

Payment will be made under:

 ITEM NUMBER
 ITEM
 PAYMENT UNIT

 8.01 W2
 Sampling and Testing of Contaminated Water
 Set

# **ATTACHMENT 1**

New York City Department of Environmental Protection

Limitations for Discharge To Storm, Sanitary/Combined Sewer

# NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTEWATER TREATMENT

# Limitations for effluent to storm, sanitary or combined sewers

Parameter	Daily Limit	Units	Sample Type	Monthly Limit
Oil & Grease	15	mg/l	Instantaneous	
Total Petroleum Hydrocarbons	50	mg/l	Instantaneous	
pH Range (Storm sewer)	6.5-8.5	SU's	Instantaneous	
(Sanitary sewer)	5-11			
Benzene	134	ppb	Instantaneous	57
Ethyl benzene	380	ppb	Instantaneous	142
Toluene	74	ppb	Instantaneous	28
Xylenes Total	74	ppb	Instantaneous	28
Temperature	< 150	°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	
Flash Point	> 140	°F	Instantaneous	
Total Suspended Solids	350	ppm	Instantaneous	
PCB's Total*	1	ppb	Composite	
Perc (Tetrachloroethylene)	20	ppb	Instantaneous	,
MTBE (Methyl-Tert-Butyl-Ether)	10	ppb	Instantaneous	10
Naphthalene	47	ppb	Instantaneous	19

<sup>\*</sup> Analysis for PCB's are requested only if both conditions listed below are met:

Analysis for PCB's must be conducted by USEPA Method 608 only with MDL = 65ppt

<sup>1)</sup> If proposed discharge > 10,000 gpd

<sup>2)</sup> If duration of discharge > 10 days

# **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. New York State Department of Environmental Conservation (DEC), Spills Technology and Remediation Series (STARS) Memo #1
- 3. 6 NYCRR 360-1 DEC 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
- 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, EPA Office of Emergency and Remedial Response Publication, 9285.1-03
- 19. NIOSH / OSHA / USCG / EPA Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities (1986)
- 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 shall 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 Sanitary/Combined 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

#### ROADWAY IMPROVEMENTS IN SHORE ROAD

# **QUEENS, NEW YORK**

DDC PROJECT NO. HWQ985
WORK ORDER NO. 7261-ATC-6936
CONTRACT REGISTRATION NO. 20090016802

Prepared for:



Bureau of Environmental and Geotechnical Services

30-30 Thomson Avenue, Fifth Floor

Long Island City, New York 11101

Prepared by:



ATC Associates Inc.

104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor
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PROJECT NO. 015.38500.0105

December 22, 2010



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#### **EXECUTIVE SUMMARY**

On behalf of the New York City Department of Design and Construction (NYCDDC), ATC Associates, Inc. (ATC) conducted a Phase II Subsurface Corridor Investigation (Phase II SCI) of Shore Road (also known as Bayshore Drive), between West Drive (also known as 235<sup>th</sup> Street or Douglaston Parkway) and a point approximately 300 feet to the south of the intersection of Shore Road and Arleigh Road in the Douglaston/Little Neck section of Queens, New York (hereinafter referred to as the Corridor). The proposed work involves: excavation for reconstructing the roadway as needed within its existing alignment (including the varying roadway widths); re-grading the roadway to achieve workable drainage; resetting and/or replacing the existing granite block curbs with new granite block curbs; and the installation of a retaining wall along Shore Road's western edge, which will be used for support and to prevent future erosion of the sub-base.

ATC prepared a Phase I Corridor Assessment Report (Phase I CAR) dated July 27, 2010, which presented the results of a survey conducted along the Corridor to assess the presence of potential sources of subsurface contamination within, and in the immediate vicinity of, the Corridor. The Phase I CAR identified two (2) sites that had a potential "Moderate" risk to impact the subsurface (soil and/or groundwater) of the Corridor and recommended the performance of a Phase II SCI. In addition, the Phase I CAR identified the potential presence of urban fill material as an environmental concern. The objective of the Phase II SCI was to assess the presence of subsurface contamination that might impact proposed construction activities. The Phase II SCI consisted of the following components:

- The advancement of four (4) borings (B-1 through B-4) to a depth of 20 feet below ground surface (ftbg) and the field screening of soil samples, including photo-ionization detector (PID) readings and visual and olfactory indicators of contamination (staining, odors);
- The collection of one (1) soil sample (B-1), which was analyzed for the following parameters: (1) United States Environmental Protection Agency (EPA) Target Compound List (TCL) volatile organic compounds (VOCs); (2) TCL Base Neutral/Acid (BN/A) extractable semi-volatile organic compounds (SVOCs); (3) Target Analyte List (TAL) metals; (3) TCL pesticides; and (4) TCL polychlorinated biphenyls (PCBs);
- The collection of one (1) waste characterization soil sample (WC-01), which was analyzed for: (1) the EPA Full Toxicity Characteristics Leaching Procedure (TCLP) parameters; (2) the Resource Conservation and Recovery Act (RCRA) characteristics (ignitability, reactivity and corrosivity); and (3) Total Petroleum Hydrocarbons Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO);
- The installation of two (2) temporary well points (TWPs) and the collection of one (1) groundwater sample from one (1) of the TWPs (B-2), which was analyzed for the parameters published by the New York City Department of Environmental Protection (NYCDEP) as



Limitations for Effluent to Sanitary or Combined Sewers (NYCDEP Sewer Discharge Criteria); 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 and groundwater quality, the laboratory analytical results for soils were compared with the regulatory standards identified in: (1) New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum #4046 (TAGM) dated 1994 (including Eastern USA Soil Background Levels for metals); (2) NYSDEC STARS 1992 Memo #1, Petroleum Contamination Soil Guidance Policy Toxicity Characteristic Leaching Procedure (TCLP) Alternative Guidance Values (AGVs); (3) NYSDEC Subpart 375-6: Remedial Program Unrestricted and Restricted-Residential Use Soil Cleanup Objectives (SCOs); and (4) the Toxicity Characteristic Regulatory Levels for Hazardous Waste published in RCRA and NYSDEC Part 371. In order to evaluate the groundwater quality, the laboratory analytical results for the groundwater sample were compared to the NYCDEP Sewer Discharge Criteria.

The subsurface soils encountered during this Phase II SCI from grade to 20 ftbg consisted predominantly of brown and brownish gray fine to medium sand, silt and clay, with little fine to medium gravel. A layer of gray clay and silt was encountered in boring B-2 from 13 to 20 ftbg. Man-made materials (brick, concrete, cinders, ash, glass, etc.) and/or wood fragments, which are indicative of urban fill, were not encountered. Bedrock was not encountered and is anticipated to be at depths greater than 400 ftbg.

The field screening did not identify evidence of contamination in any of the four (4) borings.

VOCs, SVOCs, pesticides and PCBs were not detected at concentrations exceeding the applicable standards.

Nickel was detected in the composite soil sample at a concentration that exceeds its corresponding TAGM RSCO, Eastern USA Soil Background Level, and Subpart 375-6 Unrestricted SCO, but is below the Subpart 375-6 Restricted-Residential Use SCO. Magnesium and zinc were detected in the composite soil sample at concentrations that exceed their corresponding TAGM RSCOs and Eastern USA Soil Background Levels, but are below the Subpart 375-6 Unrestricted and Restricted-Residential Use SCOs.

The waste characterization soil sample (WC-01) did not exhibit evidence of hazardous waste characteristics. DRO was detected in the sample. However, there is no regulatory standard for DRO.

During the advancement of the four (4) borings, groundwater was encountered in borings B-1, B-2 and B-3 at depths of approximately 11 ftbg, 5 ftbg and 9 ftbg, respectively. Groundwater



was not encountered in Boring B-4. Total suspended solids (TSS) were detected in the groundwater sample collected from B-2 at a concentration that exceeds the NYCDEP Sewer Discharge Criteria.

#### **Conclusions**

Based on the evaluation of the field screening data and the laboratory analytical results, and a comparison to applicable regulatory standards, the following conclusions are presented:

- Field screening did not identify evidence of contamination in any of the four (4) borings.
- Subsurface soils contain elevated concentrations of magnesium, nickel, zinc and DRO. The presence of elevated levels of metals (magnesium, nickel and zinc) is attributable to natural (background) levels. The presence of DRO may be attributed to the detection of organic compounds that are not diesel constituents but are used by the laboratory as part of the analytical methodologies.
- The subsurface soils did not exhibit hazardous waste characteristics.
- One groundwater sample collected at the site contained concentrations of TSS that exceeded the NYCDEP Sewer Discharge Criterion. The presence of elevated levels of TSS in the groundwater is attributed to the fact that the unfiltered sample was collected from a TWP and not a permanent monitoring well. However, the groundwater samples collected from TWPs are considered to be more representative of conditions to be encountered during construction activities. Additional analysis for the remaining parameters will be required if dewatering is needed during construction.

Based on the results of the field investigation and laboratory analytical results, ATC recommends the following:

- The Contract documents should identify provisions and a contingency for managing, handling, transporting and disposing of non-hazardous soil for metals and DRO. The contract documents should also contain provisions for managing and transporting non-hazardous contaminated fill material as a contingency. The Contractor should be required to submit a Material Handling Plan, which should identify the specific protocol and procedures that will be employed to manage the waste in accordance with applicable regulations.
- Due to the presence of metals (magnesium, nickel and zinc) at concentrations above TAGM RSCOs and Eastern USA Soil Background Levels in the investigated sites, dust control procedures are recommended during excavation activities to minimize the creation and dispersion of fugitive airborne dust. The Contractor may 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 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. Specific requirements shall be reviewed for each situation in consultation with the New York State Department of Health (NYSDOH) to ensure proper applicability.

- Dewatering may be necessary during construction activities in the Corridor. Based on the groundwater analytical results, groundwater may require pre-treatment prior to discharge to sanitary or combined sewers. Additional groundwater analysis will be required due to the limited groundwater analysis completed. The contractor will be required to obtain a NYCDEP sewer discharge permit if dewatering is necessary.
- If discharge into storm sewers is required during dewatering, it must be done under the appropriate NYSDEC State Pollutant Discharge Elimination System (SPDES) permit. Additional sampling and laboratory analysis will be required to satisfy NYSDEC requirements prior to discharge into storm sewers.
- Before beginning any excavation activity, the contractor shall submit a site-specific health and safety plan (HASP) that will meet the requirements set forth by the Occupational, Safety and Health Administration (OSHA), the 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 metals).



#### 1.0 INTRODUCTION

On behalf of the New York City Department of Design and Construction (NYCDDC), ATC Associates, Inc. (ATC) conducted a Phase II Subsurface Corridor Investigation (Phase II SCI) of Shore Road (also known as Bayshore Drive), between West Drive (also known as 235<sup>th</sup> Street or Douglaston Parkway) and a point approximately 300 feet to the south of the intersection of Shore Road and Arleigh Road in the Douglaston/Little Neck section of Queens, New York (hereinafter referred to as the Corridor).

The Corridor is approximately 0.70 mile or 3,680 LF long. The proposed work involves: excavation for reconstructing the roadway as needed within its existing alignment (including the varying roadway widths); re-grading the roadway to achieve workable drainage; resetting and/or replacing the existing granite block curbs with new granite block curbs; and the installation of a retaining wall along Shore Road's western edge, which will be used for support and to prevent future erosion of the sub-base. The Phase II SCI was conducted to determine if the Corridor's environmental condition might impact proposed construction activities.

#### 1.1 Summary of Previous Environmental Investigations

ATC prepared a Phase I Corridor Assessment Report (Phase I CAR) dated July 27, 2010, which presented the results of a survey conducted along the Corridor to assess the presence of potential sources of subsurface contamination within, and in the immediate vicinity of, the Corridor. The survey also included a review of Sanborn fire insurance maps to document historical use and a limited review of Federal and New York State databases to identify sites that are known to be contaminated.

The Phase I CAR identified the following two (2) final "Moderate" risk sites that had the potential to impact the subsurface of the Corridor: (1) a reported No. 2 fuel oil release from a two-story residence located at 22 Warwick Avenue; and (2) a reported petroleum release from a septic system near Shore Road and Beverly Road. In addition, the Phase I CAR identified the potential presence of urban fill material as an environmental concern. Therefore, the Phase I CAR recommended advancing four (4) borings, installing temporary well points (TWPs) and collecting soil and groundwater samples to assess potential impacts.

#### 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 Zebra Environmental Corporation (Zebra) of Lynbrook, NY. Oversight of drilling activities was performed by ATC. Laboratory analyses were provided by CHEMTECH Consulting Group (CHEMTECH), of Mountainside, New Jersey, a New York State Department of Health (NYSDOH)-approved laboratory (No. 11376). Field derived Quality Assurance/Quality Control



samples (i.e. field blanks, trip blanks, duplicates) were not collected for this project. The field investigation was conducted on November 5, 2010 and consisted of the following components.

- The advancement of four (4) borings (B-1 trough B-4) to a depth of 20 feet below ground surface (ftbg). The borings were advanced using a Geoprobe direct push drill rig. Prior to direct push advancement, the borings were cleared to a depth of five (5) feet using a hand auger. Soil samples were collected using 5-foot long, 2-inch diameter Macro Core stainless steel samplers equipped with polyvinyl chloride (PVC) liners.
- Field screening, classification and identification of soils from the ground surface to the bottom of each boring. Soil samples were visually identified and classified in the field using the Burmister-based soil classification system. Field screening consisted of visual and olfactory indicators of contamination (staining, odors), as well as screening with a photo-ionization detector (PID).
- The collection of one (1) composite sample and one (1) grab sample from boring B-1. The composite sample was comprised of soil from the entire boring column. Since no evidence of contamination was detected during field screening in boring B-1, the grab sample was collected from the 6-inch interval above the groundwater table (10.5-11 ftbg). In accordance with the Work Plan for the Phase II SCI, prepared by ATC and approved by DDC, since no evidence of contamination was detected during field screening in borings B-2, B-3 and B-4, soil samples were not collected from these three (3) borings for laboratory analyses.
- Laboratory analysis of the composite soil sample collected from boring B-1 for: (1) Target Compound List (TCL) Base Neutral/Acid (BN/A) extractable semi-volatile organic compounds (SVOCs) by United States Environmental Protection Agency (EPA) Method 8270; (2) Target Analyte List (TAL) metals by EPA Method 6010; (3) TCL pesticides by EPA Method 8081; and (4) TCL polychlorinated biphenyls (PCBs) by EPA Method 8082.
- Laboratory analysis of the grab soil sample collected from boring B-1 for TCL volatile organic compounds (VOCs) by EPA Method 8260.
- The installation of two (2) temporary well points (TWPs) in borings B-1 and B-2 using direct push technology by installing a slotted PVC screen perpendicular to the groundwater table and riser pipe to grade. Dedicated PVC tubing connected to a check valve was deployed in the TWP installed in B-2 to extract a groundwater sample. The TWP installed in boring B-1 was dry and a groundwater sample could not be collected.
- Laboratory analysis of the groundwater sample for the parameters published by the New York City Department of Environmental Protection (NYCDEP) as Limitations for Effluent to Sanitary or Combined Sewers (NYCDEP Sewer Discharge Criteria).



- The collection of one (1) composite waste characterization (WC) sample (WC-01), comprised of soil aliquots from borings B-1through B-4 [grade to bottom of boring (20 ftbg)].
- Laboratory analysis of the waste characterization sample for: (a) Full Toxicity Characteristics Leaching Procedure (TCLP) by EPA Method SW846; (b) Resource Conservation and Recovery Act (RCRA) characteristics (ignitability, reactivity and corrosivity) by EPA Method SW846; and (c) Total Petroleum Hydrocarbons Diesel Range Organics/Gasoline Range Organics (TPHC DRO/GRO) by EPA Methods 8015B/8015.



#### 2.0 CORRIDOR INFORMATION

#### 2.1 Corridor Location, Description and Use

The Corridor is located in the Douglaston/Little Neck section of Queens, New York, and consists of Shore Road (also known as Bayshore Drive), between West Drive (also known as 235<sup>th</sup> Street or Douglaston Parkway) and a point approximately 300 feet to the south of the intersection of Shore Road and Arleigh Road. The Corridor location is shown on Figure 1. The Corridor is characterized primarily by residential properties on the east side of Shore Road. To the west, the Corridor is bordered by Little Neck Bay. The Corridor is comprised of paved roadways and infrastructure systems.

#### 2.2 Description of Surrounding Properties

The Corridor is located in a residential neighborhood in the Douglaston/Little Neck area of Queens. The residences are single-family homes. A kayak boat launch is located at the intersection of Shore Road and Beverly Road, on the west side of the Corridor along Little Neck Bay. The kayak boat launch, which is part of the Douglaston Manor Association Yacht Club, consists of a floating dock and a small wooden structure utilized by staff as a check-in point.

#### 2.3 Corridor and Regional Topographic Setting

Based on a review of the United States Geological Survey (U.S.G.S.) 7.5-minute Topographic Quadrangle Maps for Flushing, NY (1995) and Sea Cliff, New York (1968, photorevised 1979) the Corridor exhibits a vertical change of approximately 15 feet along its length. The elevation of the Corridor ranges from approximately 10 feet above mean sea level (msl) at the intersection of Shore Road and Knollwood Avenue, to approximately 25 feet msl at its southern terminus. Surface water runoff is expected to follow the grade of the roadway to the north and west, toward Little Neck Bay. A copy of the topographic map is presented on Figure 1.

#### 2.4 Corridor and Regional Geology

According to the New York State Geological Survey Surficial Geologic Map of New York, Lower Hudson Sheet, dated 1989, the area's surficial geology consists of Pleistocene-age relatively impermeable till of variable texture (clay, silt-clay, boulder clay) deposited beneath glacier ice. The thickness of the till ranges from approximately three (3) to 150 feet. In most areas of New York City, the upper portions of the glacial deposits have been disturbed by a long history of development activities, thus resulting in a layer of fill material, which is classified as Urban Land. Urban Land refers to soils that have been altered by urban development such as buildings and streets, where at least 85 percent of the surface is covered with asphalt, concrete or other impervious building material. Typically, these soils have been mixed with other materials, such as brick and concrete. The presence of fill material within the Corridor is considered to represent a potential environmental concern.



The subsurface soils encountered during this Phase II SCI from grade to 20 ftbg consisted predominantly of brown and brownish gray fine to medium sand, silt and clay, with little fine to medium gravel. A layer of gray clay and silt was encountered in boring B-2 from 13 to 20 ftbg. Man-made materials (brick, concrete, cinders, ash, glass, etc.) and/or wood fragments, which are indicative of urban fill, were not encountered. Bedrock was not encountered. According to the USGA "Hydrogeologic Framework of Long Island, New York" (1989), depth to bedrock is anticipated to be approximately 400 feet. Geologic Boring Logs are provided in Appendix B.

#### 2.5 Corridor and Regional Hydrogeology

The nearest surface water body is Little Neck Bay, located 20 to 200 feet to the west of the Corridor. During this Phase II SCI, groundwater was encountered in borings B-1, B-2 and B-3 at depths of approximately 11 ftbg, 5 ftbg and 9 ftbg, respectively. Groundwater was not encountered in Boring B-4. Based on the topography and the proximity to the Little Neck Bay, the groundwater flow direction is anticipated to be to the west. Depth to groundwater and groundwater flow directions may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.



#### 3.0 CORRIDOR EVALUATION

Proposed construction activities at this site include soil excavation and may include dewatering, which in-turn requires that soils and groundwater at the site be characterized to identify material handling requirements (i.e. use of protective equipment) and for material reuse, handling and/or waste disposal requirements. ATC provided oversight for the advancement of four (4) soil borings, the installation of two (2) TWPs and the collection of soil and groundwater samples during the field investigation at the designated areas in the vicinity of the planned construction. The soil and groundwater samples from the borings and TWP were transferred into laboratory supplied sample jars and properly labeled. The samples were stored with ice in a cooler 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, including the location of the sites and the details of the soil borings, is provided in Table 1.

#### 3.1 Soil Quality Investigation

Four (4) borings (B-1 through B-4) were advanced to a depth of 20 ftbg using a Geoprobe direct push drill rig. Prior to direct push advancement, borings were cleared to a depth of five (5) ftbg using a hand auger. Soil samples were collected using 5-foot long, 2-inch diameter Macro Core stainless steel samplers equipped with polyvinyl chloride (PVC) liners. Soil boring locations are shown on Figure 2. 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 A. Boring logs are provided in Appendix B. The locations of each boring are described below:

- **B-1** Advanced in Shore Road, 18 feet west of the eastern curbline of Shore Road and 5 feet south of the southern curbline of Warwick Avenue.
- **B-2** Advanced in Shore Road, 26 feet west of the eastern curbline of Shore Road and 8 feet south of the northern curbline of Beverly Road.
- **B-3** Advanced in Shore Road, 22 feet west of the eastern curbline of Shore Road and 18 feet south of the southern curbline of Hollywood Avenue.
- **B-4** Advanced in Shore Road, 4 feet north of the southern curbline of Shore Road and 19 feet west of the western curbline of West Drive.

Continuous soil samples were collected from each boring at 5-foot intervals. Upon sample retrieval, the soils were examined for visual evidence (i.e. staining, discoloration) and any olfactory indications (i.e. odors) of contamination. In addition, a photo-ionization detector (PID) was used to screen the soil for VOC vapors.



In accordance with the Phase II SCI Work Plan prepared by ATC and dated October 13, 2010, since evidence of contamination was not identified in soil borings B-2, B-3 and B-4, composite and grab samples were not collected from these borings for laboratory analyses.

In order to identify representative conditions relative to the presence of SVOCs, metals, pesticides and PCBs over the entire soil column in boring B-1, one (1) composite soil sample was collected by mixing the soil from the entire column in a stainless steel bowl. Since evidence of contamination was not identified in soil boring B-1, in accordance with the Phase II SCI Work Plan prepared by ATC and dated October 13, 2010, in order to identify representative conditions relative to the presence of VOCs, one (1) grab soil sample was collected from the 6-inch interval (10.5-11 ftbg) above the groundwater table in boring B-1.

In accordance with the Phase II SCI Work Plan prepared by ATC and dated October 13, 2010, in order to identify representative conditions for disposal purposes, one (1) waste classification sample (WC-01) was collected. WC-01 was comprised of soil aliquots from borings B-1 through B-4 [grade to bottom of boring (20 ftbg)].

Soil classification information, including stratigraphy, is documented on the boring logs included in Appendix B. All boring equipment was cleaned by being rinsed with tap water, scrubbed with Alconox, then rinsed with deionized water again between each sample interval. In addition, a clear PVC liner was used inside the sampler for neat recovery of the soil cores. Following the completion of each boring, the boreholes were back-filled with drill cuttings, and, where appropriate, sealed with asphalt to match the existing surface.

#### 3.2 Groundwater Quality Investigation

As groundwater may be encountered within the depths associated with the future excavation, one (1) groundwater sample was collected for screening and laboratory analysis during the soil boring activities. During the advancement of the borings, groundwater was encountered in borings B-1, B-2 and B-3 at depth of approximately 11 ftbg, 5 ftbg and 9 ftbg, respectively. Groundwater was not encountered in Boring B-4. According to the Work Plan prepared by ATC and dated October 13, 2010, a TWP was to be installed only in boring B-1. However, since after its installation the TWP in boring B-1 was dry and a groundwater sample could not be collected, a TWP was also installed in boring B-2. For the installation of the TWP in boring B-1, the Geoprobe unit was advanced to a depth of 20 ftbg, approximately nine (9) feet into the encountered water table. The TWP consisted of a 18-foot length section of one-inch diameter schedule 40 PVC screen and riser. For the installation of the TWP in boring B-2, the Geoprobe unit was advanced to a depth of 20 ftbg, approximately 15 feet into the encountered water table. The TWP consisted of a 16-foot length section of one-inch diameter schedule 40 PVC screen and riser. Since the TWP in boring B-1 was dry and a groundwater sample could not be collected, one groundwater sample was collected from the TWP installed in boring B-2 for screening and laboratory analysis via dedicated polyethylene tubing and check valves. All tubing was new, clean and unused and was properly disposed after use. Upon extraction, the sample was



examined for visual evidence (i.e., discoloration, sheen) and any olfactory indications (i.e. odors) of contamination. None were noted.

The TWP logs and a summary of the measurements taken from the TWPs are provided in Appendix B. The locations of the TWPs are shown on Figure 2.

#### 3.3 Laboratory Analyses

The soil and groundwater samples were submitted to CHEMTECH Consulting Group (CHEMTECH), of Mountainside, New Jersey, a NYSDOH-approved laboratory (No. 11376). Field derived Quality Assurance/Quality Control samples (i.e. field blanks, trip blanks, duplicates) were not collected for this project. Laboratory analytical reports are included in Appendix C.

The grab soil samples were analyzed for TCL VOCs by Method 8260. The boring composite soil samples were analyzed for: (1) TCL SVOCs by EPA Method 8270; (2) TAL metals by EPA Method 6010; (3) TCL pesticides by EPA Method 8081; and (4) TCL PCBs by EPA Method 8082.

The waste characterization soil sample was analyzed for: (1) the EPA Full TCLP parameters by EPA Method SW846; (2) the RCRA characteristics (ignitability, reactivity and corrosivity) by EPA Method SW846; and (3) TPHC DRO/GRO by EPA Method 8015/8015B.

The groundwater sample was analyzed for the parameters published by NYCDEP as Limitations for Effluent to Sanitary or Combined Sewers.

#### 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 Technical and Administrative Guidance Memorandum #4046 (TAGM) dated 1994, which provides the Recommended Soil Cleanup Objectives (RSCOs) at NYSDEC Inactive Hazardous Waste and Spill sites, based on health-related concerns and available clean-up technologies, and the Eastern USA Soil Background Levels for metals; (2) NYSDEC STARS 1992 Memo #1 Petroleum Contamination Soil Guidance Policy Toxicity Characteristic Leaching Procedure (TCLP) Alternative Guidance Values (AGVs); and (3) NYSDEC Subpart 375-6: Remedial Program Unrestricted and Restricted-Residential Use Soil Cleanup Objectives (SCOs). The laboratory analytical results of the waste classification soil samples were compared with the Toxicity Characteristic Regulatory Levels for Hazardous Waste published in RCRA and NYSDEC Part 371. The analytical results of the groundwater samples were compared to the NYCDEP Sewer Discharge Criteria.



#### 4.0 FINDINGS

This section discusses the analytical data and findings for the activities discussed in Section 3. Complete analytical data reports are included in Appendix C.

#### 4.1 Field Screening

Field screening did not identify evidence of contamination in any of the four (4) borings.

#### 4.2 Soil and Groundwater Laboratory Analytical Results

#### 4.2.1 Volatile Organic Compounds (VOCs) in Soil

Methylene chloride was detected in the grab soil sample at a concentration below its TAGM RSCO and its Unrestricted and Restricted-Residential Use SCOs. There is no AGV for this compound. This compound is used by laboratories during the extraction procedures and its presence is attributed to laboratory cross contamination. Other VOCs were not detected. Refer to Table 2 for a summary of TCL VOC detections.

#### 4.2.2 Semi-Volatile Organic Compounds (SVOCs) in Soil

Dimethyl phthalate was detected in the composite soil sample at a concentration below its TAGM RSCO. There is no SCO or AGV for this compound. Its presence is attributed to laboratory cross-contamination. Refer to Table 3 for a summary of TCL SVOC detections.

#### 4.2.3 Target Analyte List Metals (TAL Metals) in Soil

Nickel was detected in the composite soil sample at a concentration that exceeds its corresponding TAGM RSCO, Eastern USA Soil Background Level, and Subpart 375-6 Unrestricted SCO, but is below the Subpart 375-6 Restricted-Residential Use SCO. Magnesium and zinc were detected in the composite soil sample at concentrations that exceed their corresponding TAGM RSCOs and Eastern USA Soil Background Levels, but are below the Subpart 375-6 Unrestricted and Restricted-Residential Use SCOs. The presence of elevated levels of metals is attributable to natural (background) levels. Refer to Table 4 for a summary of TAL metals detections.

#### 4.2.4 Pesticides in Soil

Pesticides were not detected in the composite sample collected. Refer to Table 5 for a summary of analytical results for pesticides in soil.

#### 4.2.5 PCBs in Soil

PCBs were not detected in the composite sample collected. Refer to Table 6 for a summary of analytical results for PCBs in soil.



#### 4.2.6 Waste Classification of Soil

Ignitability (flash point), reactivity (cyanide and sulfide), and corrosivity (pH) were within the acceptable RCRA ranges in the waste classification sample (WC-01). TCLP VOCs, SVOCs, herbicides, pesticides, and PCBs were not detected. Barium and mercury were detected at concentrations significantly below their corresponding RCRA hazardous waste levels. Their presence is attributed to natural (background) levels. DRO was detected at a concentration of 4.659 mg/kg. There is no regulatory standard for DRO. The presence of DRO in the soil sample may be attributed to the detection of organic compounds that are not diesel constituents but are used by the laboratory as part of the analytical methodologies. Analytical results will need to be compared to levels acceptable by the chosen receiving facility to determine appropriate waste classification prior to off-site disposal. Refer to Table 7 for a summary of TCLP parameters, RCRA characteristics and DRO/GRO results.

#### 4.2.7 Analysis of NYCDEP Parameters in Groundwater

Total Suspended Solids (TSS) were detected at a concentration of 4,600 milligrams per liter (mg/L), which is above the NYCDEP Sewer Discharge Criterion of 350 mg/L. The presence of TSS is attributed to the fact that the unfiltered groundwater sample was collected from a TWP and not a permanent monitoring well. However, the groundwater sample collected from a TWP is considered to be more representative of conditions to be encountered during construction activities. Based on the results for TSS, groundwater does not meet NYCDEP Sewer Discharge Criteria and will require pre-treatment prior to discharge. Refer to Table 8 for a summary of NYCDEP parameters in groundwater.



#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the evaluation of the field screening data and the laboratory analytical results, and a comparison to applicable regulatory standards, the following conclusions are presented:

- Field screening did not identify evidence of contamination in any of the four (4) borings.
- Subsurface soils contain elevated concentrations of magnesium, nickel, zinc and DRO. The
  presence of elevated levels of metals (magnesium, nickel and zinc) is attributable to natural
  (background) levels. The presence of DRO may be attributed to the detection of organic
  compounds that are not diesel constituents but are used by the laboratory as part of the
  analytical methodologies.
- The subsurface soils did not exhibit hazardous waste characteristics.
- One groundwater sample collected at the site contained concentrations of TSS that exceeded the NYCDEP Sewer Discharge Criteria. The presence of elevated levels of TSS in the groundwater is attributed to the fact that the unfiltered sample was collected from a TWP and not a permanent monitoring well. However, the groundwater samples collected from TWPs are considered to be more representative of conditions to be encountered during construction activities. Additional analysis for the remaining parameters will be required if dewatering is needed during construction.

Based on the results of the field investigation and laboratory analytical results, ATC recommends the following:

- The Contract documents should identify provisions and a contingency for managing, handling, transporting and disposing of non-hazardous soil for metals and DRO. The contract documents should also contain provisions for managing and transporting non-hazardous contaminated fill material as a contingency. The Contractor should be required to submit a Material Handling Plan, which should identify the specific protocol and procedures that will be employed to manage the waste in accordance with applicable regulations.
- Due to the presence of metals (magnesium, nickel and zinc) at concentrations above TAGM RSCOs and Eastern USA Soil Background Levels in the investigated sites, dust control procedures are recommended during excavation activities to minimize the creation and dispersion of fugitive airborne dust. The Contractor may 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 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

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direct result of investigative and remedial work activities. Specific requirements shall be reviewed for each situation in consultation with the New York State Department of Health (NYSDOH) to ensure proper applicability.

- Dewatering may be necessary during construction activities in the Corridor. Based on the
  groundwater analytical results, groundwater may require pre-treatment prior to discharge to
  sanitary or combined sewers. Additional groundwater analysis will be required due to the
  limited groundwater analysis completed. The contractor will be required to obtain a
  NYCDEP sewer discharge permit if dewatering is necessary.
- If discharge into storm sewers is required during dewatering, it must be done under the
  appropriate NYSDEC State Pollutant Discharge Elimination System (SPDES) permit.
  Additional sampling and laboratory analysis will be required to satisfy NYSDEC
  requirements prior to discharge into storm sewers.
- Before beginning any excavation activity, the contractor shall submit a site-specific health
  and safety plan (HASP) that will meet the requirements set forth by the Occupational, Safety
  and Health Administration (OSHA), the 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 metals).



#### 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:

Matthew Mankovich Senior Project Manager

Report Reviewed By:

C. Teenty

Constantine Tsentas, LSRP, P.G. Manager, Environmental Division



#### 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 Site 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 Site.

ATC derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, 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 Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

In preparing this report, ATC has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, ATC 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 Site.

Because of the limitations stated above, the findings, observations, and conclusions expressed by ATC 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 site 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 site 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 TCL SVOCS DETECTED IN SOIL
TABLE 4 - SUMMARY OF TAL METALS DETECTED IN SOIL
TABLE 5 - SUMMARY OF PESTICIDE ANALYTICAL RESULTS IN SOIL
TABLE 6 - SUMMARY OF PCBs ANALYTICAL RESULTS IN SOIL
TABLE 7 - SUMMARY OF WASTE CHARACTERIZATION SAMPLE
ANALYSIS OF SOIL
TABLE 8 - SUMMARY OF NYCDEP PARAMETERS ANALYZED IN
GROUNDWATER SAMPLES



Table 1. Summary of Environmental Boring Data Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road Queens, New York

Boring No.	Sample ID	PID (ppm)	Sample Interval (ftbg)	Total VOCs (mg/kg)	Total SVOCs (mg/kg)	Metals Exceed (Yes/No)¹	Total Pesticides (mg/kg)	Total PCBs (mg/kg)	Depth to Water Total Depth (ftbg) (ftbg)	Total Depth (ftbg)	Other Comments
	B-1	0	10.5-11	0.022	AN	NA	AN	ΑN			Grab Sample
- <del>8</del>	B-1	0	0-20	N A	0.52	Yes	ND	QN	1	20	Boring composite sample and aliquot for waste characterization composite sample collected. Temporary Well Point (TWP) installed (dry). Groundwater sample not collected.
	B-2	0	No grab soil sample collected	NA	NA	AN .	ΑN	NA			No grab sample collected
В-2	B-2	0	No composite soil sample collected	NA	NA	N A	Ϋ́	NA	ω	20	Aliquot for waste characterization composite sample was collected. Temporary Well Point (TWP) installed. Groundwater sample collected.
	B-3	0	No grab soil sample collected	NA	NA	NA	NA	NA			No grab sample collected
B-3	B-3	0	No composite soil sample collected	NA	NA	NA	NA	Ϋ́	တ	20	Aliquot for waste characterization composite sample collected.
	B-4	0	No grab soil sample collected	ΨN	ΑN	A A	¥ Z	<b>∀</b> Z			No grab sample collected
B-4	B-4	0	No composite soil sample collected	NA	Ą	Ϋ́	N	<b>∀</b> Z	Groundwater not encountered	20	Aliquot for waste characterization composite sample collected.

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Notes:

1. Metal(s) exceeds TAGM 4046 or Eastern USA Soil (EUS) Background Levels.

All soil samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds, Semi-Volatile Organic Compounds (SVOCs) Pesticides, PCBs and Target Analyte List (TAL) Metals.

ND = Not Detected

NA = Not Analyzed or Not Applicable

ftbg = feet below grade

ppm = parts per million

mg/kg = milligrams per kilogram

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Table 2. Summary of Target Compound List Volatile Organic Compounds Detected in Soil Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road Queens, New York

	Cubrat 275 6			Sample ID, Date Collected
Subpart 375-6	Poetricted Residential	STARS TCLP	TAGM #4046	and Depth
74 .	Use	Alternative	Recommended Soil	B-1
Cleanup	Soil Cleanup Objectives		Cleanup Objectives	11/5/2010
ives (SCOS)	(SCOs)		(RSCOs)	
	(5000)			10.5-11'
0.05	100	NG	0.1	0.022J
Sub nres Soil	vart 375-6 rricted Use Cleanup ves (SCOs)	vart 375-6 rricted Use Cleanup ves (SCOs)	Subpart 375-6 Restricted-Residential Cleanup ves (SCOs) (SCOs) (SCOs) (100	Subpart 375-6 Restricted-Residential Alternative Cleanup Vise (SCOs) Ves (SCOs)  Output  Soil Cleanup Objectives (AGVs)  (AGVs)  Output  Alternative Guidance Values (AGVs)

# Notes:

All concentrations are reported in milligrams per kiligram (mg/kg)

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

NS = No Standard

NG = No Guidance Value

J = Compound detected below the quantitation limit

TAGM RSCOs = NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046) Recommended Soil Cleanup Objectives

(RSCOs) (January 24, 1994)

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)

STARS TCLP Alternative Guidance Values are the Spill Technology and Remediation Series (STARS) Toxicity Characteristic Leaching Procedure (TCLP) Alternative Guidance Values, NYSDEC STARS Memorandum 1 - Petroleum Contaminated Soil Guidance Policy

(August 1992)

**BOLD** = Concentration exceeds NYSDEC TAGM RSCOs

Shading = Concentration exceeds Unrestricted Use SCOs

Underline: = Concentration exceeds STARS TCLP AGVs

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Table 3. Summary of Target Compound List Semi-Volatile Organic Compounds Detected in Soil Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road

Queens, New York

TCL SVOC	Subpart 375-6 Unrestricted Use Soil Cleanup Objectives (SCOs)	Subpart 375-6 Restricted- Residential Use Soil Cleanup Objectives (SCOs)	STARS TCLP Alternative Guidance Values (AGVs)	TAGM #4046 Recommended Soil Cleanup Objectives (RSCOs)	Sample ID, Date Collected and Depth B-1 11/5/2010
Dimethyl Phthalate	SN	SN	NS	2	0.52B

All concentrations are reported in parts per million (ppm or mg/kg)

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

NS = No Standard

NG = No Guidance Value

J = Compound detected below the quantitation limit

B = Compound was detected in an associated laboratory blank

TAGM RSCOs = NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046) Recommended

Soil Cleanup Objectives (RSCOs) (January 24, 1994)

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program

Soil Cleanup Objectives (December 14, 2006)

STARS TCLP Alternative Guidance Values are the Spill Technology and Remediation Series (STARS) Toxicity

Characteristic Leaching Procedure (TCLP) Alternative Guidance Values, NYSDEC STARS Memorandum 1 -

Petroleum Contaminated Soil Guidance Policy (August 1992)

**BOLD** = Concentration exceeds NYSDEC TAGM RSCOs

Shading = Concentration exceeds Unrestricted Use SCOs <u>Underline</u>: = Concentration exceeds STARS TCLP AGVs

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# Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road Table 4. Summary of Target Analyte List Metals Detected in Soil Queens, New York

		TAGM #4046	Subpart 375-6	Subpart 375-6 Restricted-	Sample ID, Date Collected and Depth
rarget Analyte List Metal	Eastern USA Soil Background Levels	Recommended Soil Cleanup Objectives	Unrestricted Use Soil Cleanup Objectives	Residential Use	B-1 11/5/2010
		(RSCOs)	(scos)	Objectives (SCOs)	0-20
Aluminum	33,000	SB	SN	SN	12,600
Antimony	NS	SB	NS	SN	QN
Arsenic	3 - 12	7.5 or SB	13	16	1.42
Barium	15 - 600	300 or SB	350	400	138
Beryllium	0-1.75	0.16 or SB	7.2	72	0.86
Cadmium	0.1-1	1 or SB	2.5	4.3	NO.
Calcium	130 - 35,000	SB	SN	SN	1,840
Chromium	1.5 - 40	10 or SB	SN	NS	39.2
Cobalt	2.5 - 60	30 or SB	SN	NS	12.6
Copper	2 - 50	26 or SB	90	270	23.7
ron	2,000 - 550,000	2,000 or SB	NS	SN	27,100
ead	500*	SB	63	400	10.9
Magnesíum	100 - 5,000	SB	SN	SN	5,590
Manganese	50 - 5,000	SB	1,600	2,000	779
Mercury	0.001 - 0.2	0.1	0.18	0.81	0.012
Nickel	0.5-25	13 or SB	30	310	42.3
Potassium	8,500 - 4,300	SB	SN	SN	3,720
Selenium	0.1-3.9	2 or SB	3.9	180	2.11
Silver	NS	SB	2	180	0.30J
Sodium	6,000 - 8,000	SB	SN	SN	1,030
Thallium	NS	SB	NS	SN	0.67J
Vanadium	1 - 300	150 or SB	NS	NS	43
Zinc	9 - 50	20 or SB	109	10,000	58.4

All concentrations are in miligrams per kilogram (mg/kg)

ND = Analyte not detected above method detection limit (see attached lab report for mdl's)

NS = No Standard

NG = No Guidance Value

SB = Site Background Concentration (assumed to be the Eastern USA Soil Background Level)

TAGM RSCOS = NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046) Recommended

Soil Cleanup Objectives (RSCOs) (January 24, 1994)

**BOLD** = Concentration exceeds NYSDEC TAGM RSCOs

Sheding = Detected concentration exceeds Eastern Soil Background Concentrations as per TAGM RSCOs
<u>Undrelline</u> = Concentration exceeds Unrestricted Use SCOs
\*Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4 - 61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200 - 500 ppm

Italics - Concentration exceeds the Restricted-Residential Use SCOs.

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Table 5. Summary of Pesticide Analytical Results in Soil Phase Il Subsurface Corridor Investigation for Roadway Improvements in Shore Road Queens, New York

					Sample ID, Date
	Subpart 375-6	Subpart 375-6	STARS TCLP	TAGM #4046	Collected and Depth
	Unrestricted Use	Kestricted-Kesidentiai	Alternative	Recommended Soil	B-1
Lealicides	Soil Cleanup Objectives	Soil	Guidance Values	Cleanup Objectives	11/5/2010
	(scos)	Objectives (SCOs)	(AGVs)	(RSCOs)	
		Objectives (SOS)			0-20'
Pesticides	Varies by compound	Varies by compound	Varies by compound Varies by compound	Varies by compound	QN
					Service Communication of the C

# Notes:

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All concentrations are reported in parts per million (ppm or mg/kg)

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

NS = No Standard

NG = No Guildance Value

J = Compound detected below the quantitation limit

B = Compound was detected in an associated laboratory blank

TAGM RSCOs = NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046) Recommended

Soil Cleanup Objectives (RSCOs) (January 24, 1994)

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program

Soil Cleanup Objectives (December 14, 2006)

Values, NYSDEC STARS Memorandum 1 - Petroleum Contaminated Soil Guidance Policy (August 1992)

**BOLD** = Concentration exceeds NYSDEC TAGM RSCOs

Shading = Concentration exceeds Unrestricted Use SCOs

ATC Associates Inc.

DDC Project Number: HWQ985

December 22, 2010 Work Order Letter No. 7261-ATC-6936



New York City Department of Design and Construction Final Phase II Subsurface Corridor Investigation Roadway Improvements in Shore Road, Queens, New York

Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road Table 6. Summary of Polychlorinated Biphenyls Analytical Results in Soil Queens, New York

QN	Varies by compound	Varies by compound	Varies by compound Varies by compound	Varies by compound	PCBs
0-20.	(RSCOs)	(AGVs)	(scos)	Objectives (SCOs)	
11/5/2010	Cleanup Objectives	Guidance Values	Soil Clean	oil Cleanup	Biphenyls
B-1	Recommended Soil	Alternative		Unrestricted Use	Polychlorinated
<b>Date Collected</b>	TAGM #4046	STARS TCLP	Restricted-Residential	Subpart 375-6	
Sample ID,			Subpart 375-6		

## Notes:

A5-64

# All concentrations are reported in milligrams per kilogram(mg/kg)

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

NS = No Standard

NG = No Guidance Value

J = Compound detected below the quantitation limit

B = Compound was detected in an associated laboratory blank

TAGM RSCOs = NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046) Recommended

Soil Cleanup Objectives (RSCOs) (January 24, 1994)

SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)

Values, NYSDEC STARS Memorandum 1 - Petroleum Contaminated Soil Guidance Policy (August 1992)

**BOLD** = Concentration exceeds NYSDEC TAGM RSCOs

Shading = Concentration exceeds Unrestricted Use SCOs

<u>Underline</u>: = Concentration exceeds STARS TCLP AGVs

ATC Associates Inc.

DDC Project Number: HWQ985

Work Order Letter No. 7261-ATC-6936

December 22, 2010

Page 1 of 1



#### Table 7. Summary of Waste Characterization Sample Analysis of Soil Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road Queens, New York

	RCR	A	Sample ID, Date Collected and Borings
Parameter	Hazardous Wa	ste Levels	WC-01
			11/5/2010
			B-1 through B-4
RCRA Characteristics			
Reactivity Cyanide	250	mg/kg	ND.
Reactivity Sulfide	500 mg/lg	mg/kg	ND
Flash Point - Liquid/Solid	140	°F	>200
pH (Corrosivity)	>2 and < 12.5	S.U.	7.4
1,1-Dichloroethene	0.7	mg/L	ND
1,2-Dichloroethane	0.5	mg/L	ND
2-Butanone	200	mg/L	ND
Benzene	0.5	mg/L	ND
Carbon Tetrachloride	5	mg/L	ND
Chlorobenzene	100	mg/L	ND
Chloroform	6	mg/L	ND
Tetrachloroethene	0.7	mg/L	ND
Trichloroethene	0.5	mg/L	ND
Vinyl Chloride	0.2	mg/L	ND
1,4-Dichlorobenzene	7.5	mg/L	ND
2,4,5-Trichlorophenol	400	mg/L	ND
2,4,6-Trichlorophenol	2	mg/L	ND
2,4-Dinitrotoluene	0.13	mg/L	ND
2-Methylphenol	200	mg/L	ND ND
3+4-Methylphenols	200	mg/L	ND
Hexachlorobenzene	0.13	mg/L	ND
Hexachlorobutadiene	0.5	mg/L	ND
Hexachloroethane	3	mg/L	ND
Nitrobenzene	2	mg/L	ND
Pentachlorophenol	100	mg/L	ND
Pyridine	5	mg/L	ND
2,4,5-TP (SILVEX)	1 1	mg/L	ND
2.4-D	10	mg/L	ND
Chlordane	0.03	mg/L	ND
Endrin	0.02	mg/L	ND ND
gamma-BHC	0.4	mg/L	ND
Heptachlor	0.008	mg/L	ND
Heptachlor epoxide	0.008	mg/L	ND
Methoxychlor	10	mg/L	ND ND
Toxaphene	0.5	mg/L	ND ND
Arsenic	5	mg/L	ND ND
Barium	100	mg/L	0.49
Cadmium	1	mg/L	ND ND
Chromium	5	mg/L	ND ND
Lead	5	mg/L	ND ND
Mercury	0.2	mg/L	0.0014J
Selenium	1	mg/L	ND
Silver	5	mg/L	ND ND
GRO	NS S	mg/kg	ND ND
DRO	NS NS	mg/kg	4,659

#### Notes:

NS = No Standard

ND = Compound not detected above method detection limit (see attached lab report for mdl's)

BOLD and Shaded = Concentration failed TCLP analysis
F = Degrees Fahrenheit

S.U. = Standard Units

ATC Associates Inc.

December 22, 2010

DDC Project Number: HWQ985

Work Order Letter No. 7261-ATC-6936



Phase II Subsurface Corridor Investigation for Roadway Improvements in Shore Road Queens, NY Table 8. Summary of NYCDEP Parameters Analyzed in Groundwater Sample

	NYC DEP	NYC DEP Limitations	Well ID, Date Collected and Depth to Water
Parameter	to San	to Sanitary or	B-2GWS
	Combine	Combined Sewers	11/5/2010
			-21
Non-Polar Material <sup>2</sup>	20	mg/L	GN
Hd	5-12	SU	6.78
Temperature	< 150	j,	89
Flash Point - Liquid/Solid	> 140	<b>1</b> 6	>150
Cadmium (Instantaneous or Composite)	2 or 0.69	mg/L	0.0446
Chromium Hexavalent (VI)	5	mg/L	GN
Copper	5	mg/L	699.0
Lead	2	mg/L	0.734
Mercury	0.05	T/6W	0.00082
Nickel	3	mg/L	2.09
Zinc	5	mg/L	1.67
Вепzепе	134	μg/L	QN
Carbon Tetrachloride	SN	η/βη/	QN
Chloroform	NS	T/Bit	C9'0
1,4 Dichlorobenzene	NS	ng/L	QN
Ethylbenzene	380	hg/L	ON
MTBE (Methyl-Tert-Butyl-Ether)	50	ηβη.	QN
Naphthalene	47	hg/L	QN
Phenol	NS	hg/L	QN
Tetrachloroethene	20	μg/L	QN
Toluene	74	μg/L	ΩN
1,2,4 Trichlorobenzene	NS	µg/L	QN
1,1,1 Trichloroethane	NS	µg/L	QN
Xylenes (Total)	74	µg/L	QN
PCBs (Total)³	1	μg/L	QN
Total Suspended Solids	350	mg/L	4,600
CBOD <sup>5</sup>	NS	mg/L	QN
Chloride	NS	mg/L	009
Total Nitrogen <sup>5</sup>	SN	mg/L	0.88
Total Solids 5	NS	mg/L	24,700

A5-66

All concentrations are reported in milligrams per liter (mg/L) or micrograms per liter (µg/L)

 $\label{eq:NS} NS = \text{No Standard} \\ ND = \text{Compound not detected above method detection limit (see attached lab report for mdfs)}$ 

Bold = Positive detection

Shaded = Concentration exceeds INYCDEP Limitations for Effluent to Sanitary or Combined Sewers (daily limit) 
All handling and preservation of collected samples and laboratory analyses of samples was performed in accordance

with 40 CFR Part 136.

Analysis for non-polar materials was performed by EPA method 1664.

<sup>3</sup> Analysis for PCBs was performed according to EPA method 608 with method detection limit =<65 parts per trillion Analysis for PCBs is required if discharge =>10,000 gallons per day (gpd) and duration of discharge > 10 days.

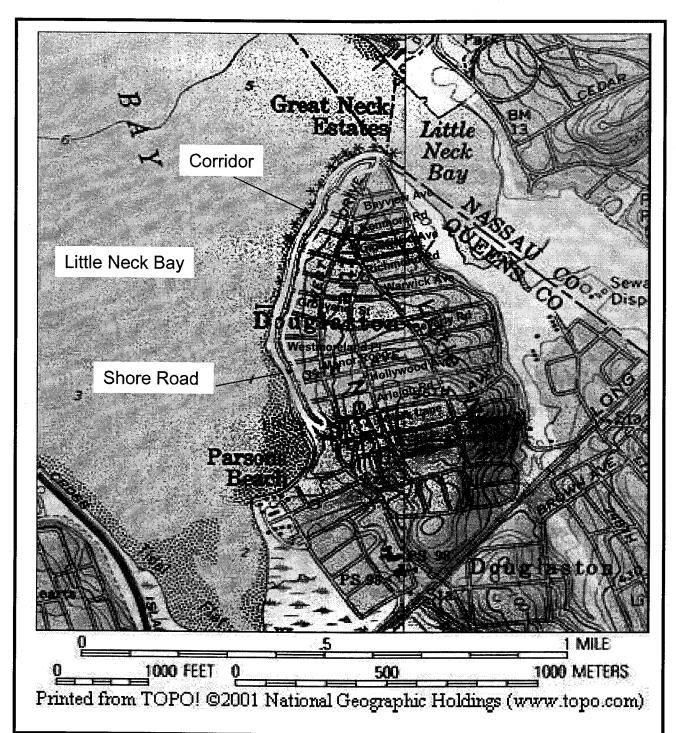
For discharge >= 10,000 gpd, the TSS limit is 350 mg/l. For discharge < 10,000 gpd, the limit is determined

Analysis for Carbonaceous Biochemical Oxygen Demand (CBOD), Chloride, Total Solids, and Total Nitrogen are required on a case by case basis

December 22, 2010 Work Order Letter No. 7261-ATC-6936 if proposed discarge >= 10,000 gpd ATC Associates Inc. DDC Project Number: HWQ985

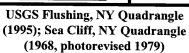


FIGURE 1 – TOPOGRAPHIC CORRIDOR LOCATION MAP









#### FIGURE 1 – TOPOGRAPHIC CORRIDOR LOCATION MAP

PROJECT NAME: Roadway Improvements in Shore Road

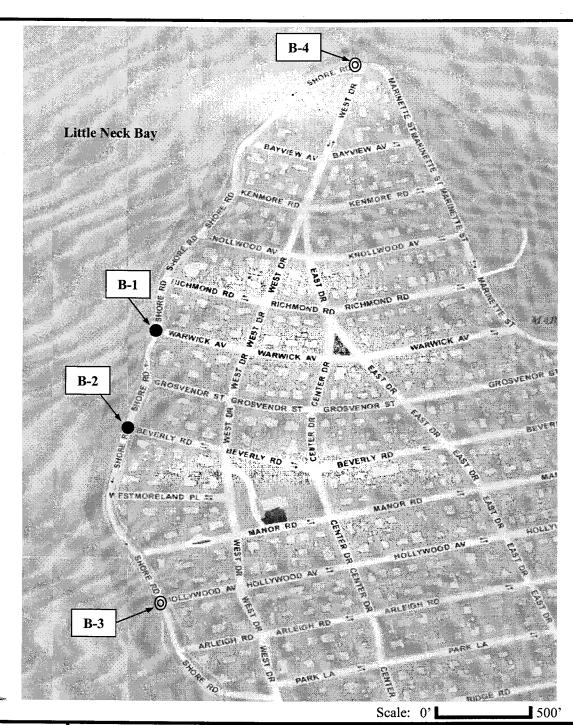
**BOROUGH, STATE:** Queens, NY **ATC PROJECT NO.:** 015.38500.0105

**DDC REGISTRATION CONTRACT NO.: 20090016802** 

**DDC PROJECT NO.:** HWQ985



FIGURE 2 - SAMPLE LOCATION PLAN





#### FIGURE 2 – SAMPLE LOCATION PLAN







Corridor

Soil Boring Location

Soil Boring and Temporary Well Point Location PROJECT NAME: Roadway Improvements in Shore Road

BOROUGH, STATE: Queens, NY

ATC PROJECT NO.: 015.38500.0105

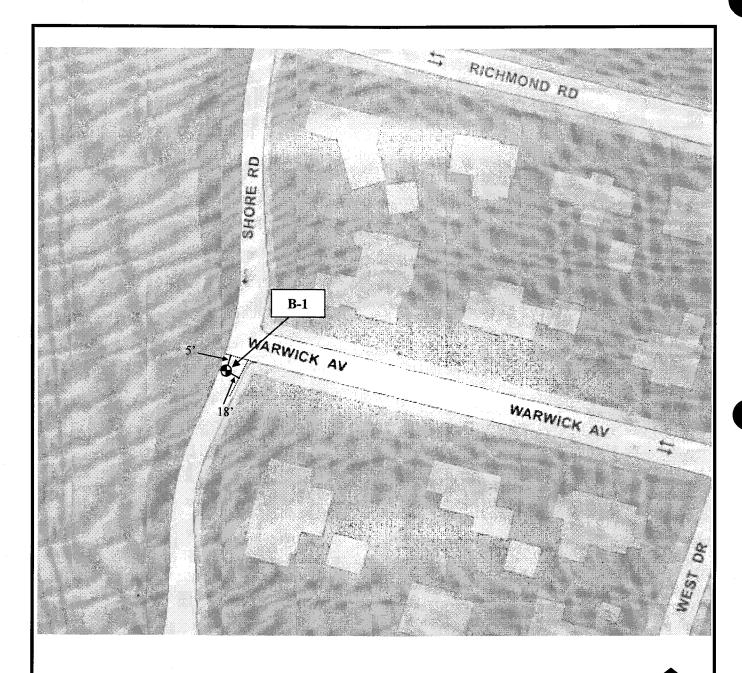
**DDC REGISTRATION CONTRACT NO.:** 20090016802

**DDC PROJECT NO.:** HWQ985





### APPENDIX A BORING LOCATION SKETCHES



- Not To Scale -







#### Appendix A - Boring Location Sketch

#### **LEGEND:**

Moderate Risk Soil Boring /
Temporary Well Point Location

**PROJECT NAME**: Roadway Improvements in Shore Road

BOROUGH, STATE: Queens, NY

**ATC PROJECT NO.**: 015.38500.0105

**DDC REGISTRATION CONTRACT NO.:** 20090016802

**DDC PROJECT NO.:** HWQ985



**NORTH** 

- Not To Scale -

#### Appendix A - Boring Location Sketch



NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION

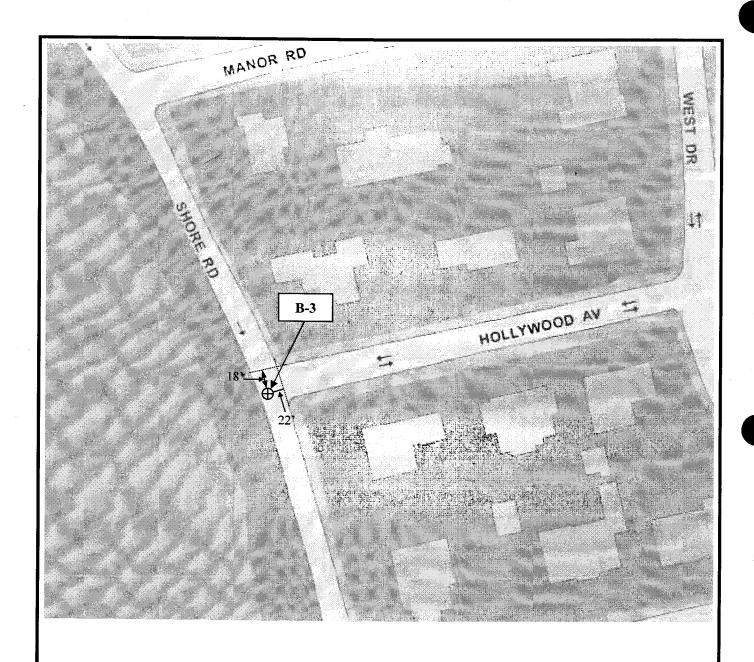
● Moderate Risk Soil Boring / Temporary Well Point Location

PROJECT NAME: Roadway Improvements in Shore Road

BOROUGH, STATE: Queens, NY ATC PROJECT NO.: 015.38500.0105

**DDC REGISTRATION CONTRACT NO.:** 20090016802

**DDC PROJECT NO.:** HWQ985



- Not To Scale -







#### Appendix A - Boring Location Sketch

#### LEGEND:

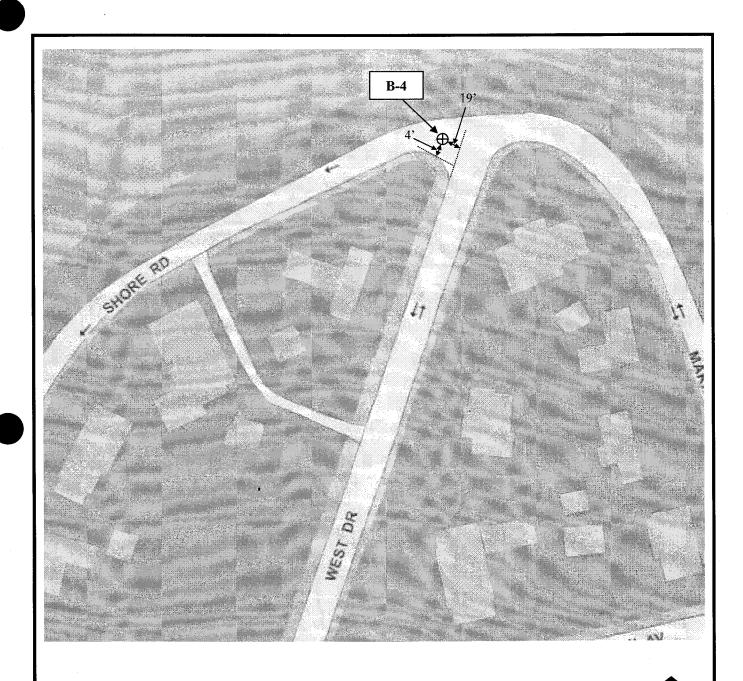
→ Moderate Risk Soil Boring Location

PROJECT NAME: Roadway Improvements in Shore Road

**BOROUGH, STATE:** Queens, NY **ATC PROJECT NO.:** 015.38500.0105

**DDC REGISTRATION CONTRACT NO.:** 20090016802

**DDC PROJECT NO.:** HWQ985



- Not To Scale -







### Appendix A - Boring Location Sketch

#### LEGEND:

Moderate Risk Soil Boring Location

PROJECT NAME: Roadway Improvements in Shore Road

**BOROUGH, STATE**: Queens, NY **ATC PROJECT NO.**: 015.38500.0105

**DDC REGISTRATION CONTRACT NO.:** 20090016802

**DDC PROJECT NO.:** HWQ985

DDC WORK ORDER NO.: 7261-ATC-6936



## APPENDIX B GEOLOGIC BORING LOGS AND TEMPORARY WELL POINT CONSTRUCTION DETAILS

			BOR	ING AN	D TEMPORA	RY WELL POINT LO	OG .
. A	ATC As	socia	tes In	ıc.	Client:	New York City Department of Design & Construction	Boring No.:  Besion + Construction  B-1
	104 East 25th Street			DDC Project No:	HWQ985	Project Location: Queens, NY	
	New York, NY 10010		DDC Task No.:	7261-ATC-6936	Boring Location:		
	212-353-8280				ATC Project No.:	015.38500.0104	In Shore Rd., 18 ft. west of the eastern
Driller: Zebra Environmental Corp.			Drilling Method:	Hand Auger / Geoprobe	curbline of Shore Rd. and 5 ft. south of the		
Inspector: John Mascioli				Hand Auger / Macro Core	southern curbline of Warwick Ave.		
Groundwater: ~ 11 feet					Date: November 5, 2010		
Depth (ft.)	Well Point Construction	Sample Interval	Recovery (ft.)	PID Reading (ppm)		Lithology and Field O	bservations
0			(200)	(pp)	0-0.5' - Asphalt		
					0.5-11' - Brown SIL	T little sand	
					0.5 11 Blown Ste	i, little state	
			4	0	0-5' - Cleared via ha	and anger	
	RISER				0-3 - Cicarca via na	ind augei	
	PIPE						
5							
			4,5	0			
						1 *	
						v 4 8	
10						!	
<u>v</u>		10.5-11'			Grab sample collect		
						ntered at approximately 11 feet own CLAY, little silt	
	SCREEN		[			···	
-			5	0			
					_	•	ore, a groundwater sample could not
15					be collected for an	alysis	
				<u> </u>			
			4.5	0			
					Composite sample (	collected from 0-20 ft.	
20		0-20'			Boring completed a		
					Total Depth: 18 fee	Temporary Well Point Cor	nstruction Details
					Diameter: 1 inch	foot	
					Riser Interval: 0-8 Screen Interval: 8-		
					Slot Size: #10		
					Depth to Groundw Date Installed: No		
					Date Abandoned:		

			BOR	RING AN	D TEMPORA	RY WELL POINT LO	DG .
ATC Associates Inc.					Client:	New York City Department of Design & Construction	Boring No.:  B-2
	104 East 25th Street New York, NY 10010 212-353-8280  Driller: Zebra Environmental Corp.			DDC Project No:	HWQ985	Project Location: Queens, NY	
					DDC Task No.:	7261-ATC-6936	Boring Location:
					ATC Project No.:	015.38500.0104	In Shore Rd., 26 ft. west of the eastern
Driller: Z					Drilling Method:	Hand Auger / Geoprobe	curbline of Shore Rd. and 8 ft. south of the
Inspector: John Mascioli						Hand Auger / Macro Core	northern curbline of Beverly Rd.
Groundw	ater: ~ 5 feet						Date: November 5, 2010
Depth (ft.)	Well Point Construction	Sample Interval	Recovery (ft.)	PID Reading		Lithology and Field O	bservations
0	RISER	Interval	(11.)	(ppm)	0-0.5' - Asphalt		
<b>▼</b> 5	PIPE		4	0	0.5-13' - Brownish g 0-5' - Cleared via ha	ray SAND, little silt, trace clay nd auger	
. 10	SCREEN		4.5	0	Grondwater sample of	collected	
15			5	0	13-20' - Gray CLAY	and SILT	
20		0-20'	5	0	Boring completed at	a depth of 20 feet	
					Total Depth: 16 feet Diameter: 1 inch Riser Interval: 0-1 i Screen Interval: 1-1 Slot Size: #10 Depth to Groundwa Date Installed: Nov Date Abandoned: N	Temporary Well Point Consequences  feet 6 feet  ster: ~ 5 feet ember 5, 2010	struction Details

					BORING	LOG		
A	ATC Associates Inc.				Client:	New York City Department of Design & Construction	Boring No.:  B-3	
	104 Ea	st 25th	Street		DDC Project No:	HWQ985	Project Location: Queens, NY	
	New York, NY 10010				DDC Task No.:	7261-ATC-6936	Boring Location:	
	212	-353-82	80		ATC Project No.:			
Driller: Ze	Driller: Zebra Environmental Corp.			Drilling Method:				
Inspector: John Mascioli			Sampling Method:	Hand Auger / Macro Core	southern curbline of Hollywood Ave.			
Groundwa	iter: ~ 9'						Date: November 5, 2010	
Depth (ft.)	Well Point Construction	Sample Interval	Recovery (ft.)	PID Reading		Lithology and Field O	bservations	
0	Construction	Interval	(11.)	(ppm)	0-0.5' - Asphalt			
5	. 1.4		5	0		ork brown SILT, little fine to me	edium sand	
			4.5	0				
15			4.5	0				
			4.5	0	16-20' - Brown fine	to medium SAND, little silt		
20					Boring completed a	t a depth of 20 feet		

					BORING	LOG	
ATC Associates Inc.				ıc.	Client:	New York City Department of Design & Construction	Boring No.:  Beau your occupantment of Design + Construction  B-4
104 East 25th Street				DDC Project No:	HWQ985	Project Location: Queens, NY	
		ork, NY			DDC Task No.:	7261-ATC-6936	Boring Location:
212-353-8280				ATC Project No.:	015.38500.0104	In Shore Rd., 4 ft. north of the southern	
	Driller: Zebra Environmental Corp.				Drilling Method:	Hand Auger / Geoprobe	curbline of Shore Rd. and 19 ft. west of th
Inspector: John Mascioli Groundwater: Not Encountered					Sampling Method:	Hand Auger / Macro Core	western curbline of West Drive.
Groundwa Depth	well Point						Date: November 5, 2010
(ft.)	Construction	Sample Interval	Recovery (ft.)	PID Reading (ppm)		Lithology and Field O	bservations
5			4.5	0	0-0.5' - Asphalt 0.5-20' - Brown fine 0-5' - Cleared via han	to medium SAND and SILT, tr	ace fine to medium gravel
10			4.5	0			
15			. 4	0	·		
20			4	0	Boring completed at	a denth of 20 feet	

#### END OF ADDENDUM NO. 5

(This Addendum consists of eighty-one (81) pages)

(NO TEXT ON THIS PAGE)

# THE CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION INFRASTRUCTURE DIVISION BUREAU OF DESIGN

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN:
SHORE ROAD
FROM 36<sup>TH</sup> AVENUE TO WEST DRIVE

INCLUDING SEWER WORK,
TOGETHER WITH ALL WORK INCIDENTAL THERETO

BOROUGH OF QUEENS CITY OF NEW YORK

#### ADDENDUM NO.6

#### DATED: March 25, 2014

THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

- 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. "SECTION U: Additional Contract Requirements Applying to Work Performed in the Presence of Privately Owned Utility Facilities" (Pages A6-3 through A6-13)
  - B. Schedule U-1 (Page A6-14)
  - C. Schedule U-2 (one for each Utility Company) (Pages A6-15 through A6-22
  - D. Section U-3 Page (A6-23) (as per the Private Utilities reference document for SECTION U called "CET SPECIFICATIONS AND SKETCHES", dated November 2010, in this Addendum)
  - E. Utility drawings (Sheet 1 of 1) and Con Edison Electrical Condition report (Sheet 1 of 6 through 6 of 6) attached to the Plans.
- 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 Section U:
  - A. Section U, ¶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. Section U,  $\P 2$ , 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. Section U informs the Contractor that the City has entered into a Utility 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 Addendum, a sample of the Utility Agreement letter as executed by the Companies is annexed on page A6-13, as an Exhibit to the Contract. Signed copies of those Utility Agreement letters are on file with NYCDDC.
- 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 Section U, ¶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. Section U, ¶14, provides that the provisions of Section U are material provisions of the Contract and that the Contractor's failure to comply with the procedures set forth in Section U are sufficient for the Commissioner to declare the Contractor in default pursuant to Article 48 of the Contract.

  Pursuant to this Addendum, 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.

## Section U: 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 November 1, 2010; Articles 1.06.14 through 1.06.17 of the General Provisions of the Standard Water Main Specifications of the New York City Department of Environmental Protection, dated August 1, 2009; and/or Articles 1.06.14 through 1.06.17 of the Standard Sewer Specifications of the New York City Department of Environmental Protection, Dated August 1, 2009; 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 Section 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 electric system, the contractor understands and by bidding for this contract agrees that he/she has reviewed the section 'U' package and

that he/she will be required to perform the public work in the presence of energized electrical 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, relocate, 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, lost profit, increased overhead, or any other impact costs. 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 traditionally performed by general construction contractors.

#### 5. Interference Agreement:

- 1. The Companies have provided estimate of the quantity of each of the types of interferences expected to be encountered in the contract in Schedule U-2. Although the parties may negotiate an Interference Agreement in any format or manner they deem fit, the Contractor is hereby advised that the Companies have indicated to the City that they will agree to compensate the Contractor on a unit price basis according to the Quantity and Types of Interferences expected to be encountered on this Contract as stated in Schedule U-2.
- 2. Furthermore, in Section 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 Interference Agreement, otherwise the unit of work measurement, and payment provisions set forth in Section 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 construction will proceed as ordered and the Contractor will be directed by the Resident Engineer 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,

Section U

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and equipment expended, and will provide copies of this information to the other party on a daily basis 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 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 Deputy Commissioner.

- 1. 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 contractor and affected company (ies) are submitted to Binding Arbitration process described in Paragraph 10.
- 2. 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. 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.
- 3. 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.
- 4. The contractor will notify the Resident Engineer when utility capital work not specified in Schedule U2 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 Deputy Commissioner regarding the issuance of a "48 hours notice" to the concerned utility company as authorized by the New York City administrative Code Section 19-143 and/or Section 24-521 as applicable.

5. Utility delays caused by utility capital work not listed in Schedule U2 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 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 Utility 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:

- 1. 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;
- 2. 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;
- 3. 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.
- 4. 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 7.2, or 7.4, 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 a utility 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 maintained by either party for Utility work performed pursuant to a Utility Agreement. 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 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, Contractor and/or representatives shall have 3 ½ hrs to make a presentation of its claim to the arbitrator. During its presentation, Contractor shall not be permitted to produce any documents or cost records which have not already been provided to the Company. Contractor shall be permitted to produce any analysis or description of its claim which has been prepared for the purpose of its presentation.
- (e) After lunch, Company and/or its representatives shall have two hours to ask Contractor questions about its claim and its presentation. Thereafter the arbitrator(s) shall have two hours to ask 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) After lunch, 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 7<sup>th</sup> day after receipt of the arbitrator's decision, or on the 30<sup>th</sup> 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 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 a prior agreement with the City, have agreed to perform their obligations described in this section. It is expressly understood that the cost of 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 a Utility 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.

Section U

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#### 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 applies to public work. The work described in this Section U 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 Section U apply to: (i) additional Companies, if any, who were not named in Schedule "A" but which have executed a Utility 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 utility agreement between the contractor and such utility companies.

[End]

#### "STANDARD UTILITY LETTER OF AGREEMENT"

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 (Name): \_\_\_\_\_, has requested the inclusion This letter is to certify that \_\_ of the attached "Section U: Additional contract requirements applying to work performed in the presence of privately owned utility." The company agrees to abide by the terms of this Section U and to submit a schedule listing the scope of work, including the items and estimated quantities, and types of utility facilities to be supported and protected at the company's own expenses due to interferences with the Public work. Sincerely, By: Authorized Company Representative Title

CERTIFIED AS TO FORM AND LEGAL AUTHORITY:

NOTARY PUBLIC

(Name)

Deputy Commissioner, Infrastructure Division

Ву:\_\_\_\_\_

## **SCHEDULE U-1**

HWQ 985
Shore Road Storm Sewers Improvement

### LISTING OF COMPANIES NAMED FOR THIS CONTRACT

COMPANY NAME	<b>CONTACT NAME</b>	<b>CONTACT TELEPHONE</b>
CON EDISON	THERESA KONG	212-460-4834
VERIZON	AUBREY MAKHANLALL	718-977-8165
TIME WARNER	JOHN PIAZZA	718-888-4261

# SCHEDULE U-2 FOR INFORMATION ONLY ENGINEER'S ESTIMATE OF QUANTITY AND TYPES OF INTERFERENCE FOR CONSOLIDATED EDISON

#### HWQ-985

#### Shore Rd from West Dr to Arleigh Rd

CET ITEM	DESCRIPTION	UNITS	ESTIMATED QUANTITY
CET 100.1	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .1)	EA	1
CET 101.1	UTILITIES CROSSING TRENCH FOR SEWERS UP TO AND INCL. 24" DIAMETER (TYPE .1)	EA	2
CET 102.1	UTILITIES CROSSING TRÊNCH FOR SEWERS OVER 24" TO 36" DIAMETER (TYPE .1)	EA	4
CET 108.1	UTILITIES CROSSING TRENCH FOR WATERMAIN UP TO AND INCL. 12" DIAMETER (TYPE .1)	EA	6
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 300	SPECIAL CARE EXCAVATION AND BACKFILING	C.Y.	3
CET 350	OVERHEAD ACCOMMODATION, PROTECTION OF OVERHEAD FACILITIES AND APPURTENANCES	Ĺ.S.	9
CET 351	INSTALL AND REMOVE "A" FRAME ON UTILITY POLES	EA	8
CET 400	TEST PITS FOR UTILITY FACILITIES	C.Y.	1
CET 601.1	INSTALL CONDUIT IN PAVED AREA (1 EA. 2", 4" OR 5" CONDUIT - ALL TYPES)	L.F.	36

Revision 2 March 21, 2014

## CON EDISON SCOPE OF WORK SUPPORT AND PROTECTION

#### HWQ-985

Shore Rd from West Dr to Arleigh Rd

CET 100.1	UTILITIES CROSSING TRENCH FOR CATCH BASIN CHUTE CONNECT. AND/OR TESTPIT (TYPE .1)  At the following locations:	EA
	S/W/C Shore Rd & Bayview Ave	
	Total quantity for CET 100.1 = 1	
CET 101.1	UTILITIES CROSSING TRENCH FOR SEWERS UP TO AND INCL. 24" DIAMETER (TYPE .1)  At the following locations:	EA
	S/W/C Shore Rd & Arleigh Rd 10' W/E/C Shore Rd, 2' N/S/C Bayview Ave	
	Total quantity for CET 101.1 = 2	
CET 102.1	UTILITIES CROSSING TRENCH FOR SEWERS OVER 24" TO 36" DIAMETER (TYPE .1)  At the following locations:	EA
	N/W/C Shore Rd & Hollywood Ave S/W/C Shore Rd & Manor Rd N/E/C Shore Rd & Westmoreland Pl N/W/C Shore Rd & Beverly Rd	
	Total quantity for CET 102.1 = 4	
CET 108.1	UTILITIES CROSSING TRENCH FOR WATERMAIN UP TO AND INCL. 12" DIAMETER (TYPE .1)  At the following locations:	EA
	N/E/C Shore Rd & Hollywood Ave S/E/C Shore Rd & Manor Rd N/W/C Shore Rd & Westmoreland Pl N/E/C Shore Rd & Bayview Ave	
	S/E/C Shore Rd & Arleigh Rd N/W/C Shore Rd & Beverly Rd	
	Total quantity for CET 108.1 = 6	
CET 225.1B	INSTALLATION OF CATCH BASINS WITH UTILITY INTERFERENCES	EA
	At the following locations:	E/A
	N/E/C Shore Rd & Bayview Ave F/O 11-14 Shore Rd	
	Total quantity for CET 225.1B = 2	

## CON EDISON SCOPE OF WORK SUPPORT AND PROTECTION

#### HWQ-985

Shore Rd from West Dr to Arleigh Rd

REMOVAL OF CATCH BASINS WITH UTILITY INTERFERENCES **CET 225.1C** EA At the following locations: N/E/C Shore Rd & Beverly Rd Total quantity for CET 225.1C **CET 300** SPECIAL CARE EXCAVATION AND BACKFILING C.Y. At the following locations: N/E/C Shore Rd & Beverly Rd Intersection Of Shore Rd & Bayview Ave Total quantity for CET 300 3 OVERHEAD ACCOMMODATION, PROTECTION OF OVERHEAD FACILITIES AND APPURTENANCES **CET 350** At the following locations: Varies N/W/C Shore Rd & Manor Rd Shore Rd Between Manor Rd & Westmoreland Pl N/E/C Shore Rd & Westmoreland Pl S/E/C Shore Rd & Grosvenor St AS SHOWN ON CONTRACT DOCUMENTS Total quantity for CET 350 INSTALL AND REMOVE."A" FRAME ON UTILITY POLES **CET 351** EA At the following locations: S/E/C Shore Rd & Manor Rd N/E/C Shore Rd & Beverly Rd N/E/C Shore Rd & Richmond Rd N/E/C Shore Rd & Knollwood Ave S/E/C Shore Rd & Bayview Ave S/E/C Shore Rd & West Dr N/E/C Shore Rd & Hollywood Ave N/W/C Shore Rd & Hollywood Ave

Revision 2 March 21, 2014 Total quantity for CET 351

## CON EDISON SCOPE OF WORK SUPPORT AND PROTECTION

#### HWQ-985

Shore Rd from West Dr to Arleigh Rd

**CET 400** 

TEST PITS FOR UTILITY FACILITIES

C.Y.

At the following locations:

F/O 11-14 Shore Rd

Total quantity for CET 400

- 1

**CET 601.1** 

INSTALL CONDUIT IN PAVED AREA (1 EA. 2", 4" OR 5" CONDUIT - ALL TYPES)

L.F.

At the following locations:

S/W/C Shore Rd & Arleigh Rd

AS ENCOUNTERED AND DIRECTED BY A CON EDISON REPRESENTATIVE

Total quantity for CET 601.1 = 36

**Revision 2**March 21, 2014

#### SCHEDULE U-2 FOR INFORMATION ONLY

#### ENGINEER"S ESTIMATE OF QUANTITY AND TYPES OF INTERFERENCE

#### FOR VERIZON

#### HWQ 985

#### Roadway Improvements in Shore Road

CET ITEM NUMBER	DESCRIPTION	UNITS	ESTIMATED QUANTITY
CET 350	OVERHEAD ACCOMMODATION, PROTECTION OF OH FACILITIES & APPURTENANCES	L.S.	1

#### VERIZON CET SCOPE OF WORK

#### SUPPORT & PROTECTION

#### HWO 985

#### Roadway Improvements in Shore Road

CET 350	OVERHEAD ACCOMMODATION, PROTECTION OF OH FACILITIES & APPURTENANCES							
Sheet # NA	Station NA	Contract Limits	Locations					
		Total quantity for	CET 350 = 1 L.S	<b>3.</b>				

HWQ 985 SCOPE OF WORK

# FOR INFORMATION ONLY ENGINEER'S ESTIMATE OF QUANTITIES AND TYPES OF INTERFERENCE TIME WARNER CABLE OF NEW YORK CITY HWQ985 Shore Road Borough of Queens

CET ITEM	DESCRIPTION	UNITS	ESTIMATED QUANTITY
וורבי ו	OVERHEAD ACCOMMODATION, PROTECTION OF OVERHEAD FACILITIES, POLES & APPURTENANCES	LS	1

#### TIME WARNER CABLE SUPPORT & PROTECTION HWQ985 Shore Road Borough of Queens

CET 350	OVERHEAD ACCOMMODATION, PROTECTION OF OVERHEAD FACILITIES, POLES & APPURTENANCES At the following locations:								
	AS ENCOUNTERED					1			
		•		Total quantity for	CET 350	1			

## **SECTION U-3**

(NO TEXT IN THIS SECTION)

# END OF ADDENDUM No.6 This Addendum consists of Twenty-Four (24 pages) And Seven (7) sheets of Contract Drawings

## CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE

## **ADDENDA CONTROL SHEET**

BID OP	ENING DATE: July 9, 2014	_
PROJE	CT NO.: <u>HWQ985</u>	
TITLE:	ROADWAY IMPROVEMENTS IN: SHORE ROAD FROM 36TH AVE. TO WEST DRIVE.	_

ADDENDA ISSUED	No. OF DRAWINGS	DATE
#1: Amendments to Standard Highway Specs.		02/24/2014
#2. Sewer and Water Main Specifications		04/11/2014
#3. EP7		03/23/2009
#4. Best Management Practices		04/03/2014
#5. HAZMAT		03/24/2014
#6. Utility Specifications		03/25/2014
#7. Additional Amendments	10	06/30/2014
		<u> </u>
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#### ATTACH TO CONTRACT DOCUMENTS

# THE CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION INFRASTRUCTURE DIVISION BUREAU OF DESIGN

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto

BOROUGH OF QUEENS CITY OF NEW YORK

ADDENDUM NO. 7

DATED: June 30, 2014

#### THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

- 1. Refer to the Bid and Contract Documents, VOLUME 1 OF 3, ATTACHMENT

  1 BID INFORMATION, page A-1 of the BID BOOKLET;

  Change the dates shown for Submission of Bids To: and for Bid

  Opening: from "JULY 1, 2014" to "JULY 9, 2014".
- 2. Refer to the Bid and Contract Documents, VOLUME 1 OF 3, SCHEDULE B

   M/WBE Participation Goals on page 13 of the BID BOOKLET;

  Change the date shown for the "Bid/Proposal Response Date" from

  "JULY 2, 2014" to "JULY 9, 2014".
- 3. Refer to the Bid and Contract Documents, VOLUME 1 OF 3, BID

  SCHEDULE, pages B-3 through B-46;

  Delete the Bid Schedule, as contained on pages B-3 through B-46,
  in its entirety;

  Substitute the revised Bid Schedule, as contained on attached
  pages B-3 [REVISION # 1] through B-47 [REVISION # 1].
- 4. Refer to the Bid and Contract Documents, Volume 3 of 3, Cover; Change the words "ADDENDA NOS. 1 TO 3" to "ADDENDA NOS. 1 TO 6".
- 5. Refer to the Bid and Contract Documents, VOLUME 3 OF 3, page A1-6;

  Insert the new SECTION 6.19 SB, as contained on attached pages

  A1-6A through A1-6D.

Project ID. HWQ985

6. Refer to the Contract Drawings, SHEETS 2 OF 66, 10 OF 66, 11 OF 66, 15 OF 66, 16 OF 66, 17 OF 66, 18 OF 66, 19 OF 66, 20 OF 66, and 21 OF 66;

Delete SHEETS 2 OF 66, 10 OF 66, 11 OF 66, 15 OF 66, 16 OF 66, 17
 OF 66, 18 OF 66, 19 OF 66, 20 OF 66, and 21 OF 66, in their entirety;

Substitute the attached revised SHEETS 2R OF 66, 10R OF 66, 11R OF 66, 15R OF 66, 16R OF 66, 17R OF 66, 18R OF 66, 19R OF 66, 20R OF 66, and 21R OF 66.

By signing in the space provided below, the bidder acknowledges receipt of this Addendum consisting of two (2) pages, forty-nine (49) pages of attachment and ten (10) sheets of drawings.

THIS ADDENDUM MUST BE SIGNED BY ALL BIDDERS AND ATTACHED TO THEIR BID

MOHSEN ZARGARELAHI, P.E.

**Assistant Commissioner** 

Name of Bidder

By: 12/Adc

Appenda #7

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

Contract PIN 85

PIN 8502013HW0061C

DEPARTMENT OF DESIGN AND CONSTRUCTION

Project ID

Contract PIN Project ID

IN 8502013HW0061C

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

Contract PIN

8502013HW0061C HWQ985 Project ID

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	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS			8			*			w.			
		0	CIS						ا						
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS			S.			S			S		8	
STATE OF THE STATE	COL. 3	CLASSIFICATIONS		TREES REMOVED (24" TO UNDER 48" CALIPER)			MAINTENANCE TREE PRUNING (UNDER 12" CAL.)				CALL.)		MAINTENANCE TREE PRUNING (18" TO UNDER 24" CAL.)		
	COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		1.0	EACH		21.0	EACH		26.0	ЕАСН		25.0 EACH		
	COL. 1	ITEM NUMBER (SEQUENCE NO.)		4.16 ADE	(600)		4.18 A	(010)		4.18 B	(011)		4.18 C (012)		

Contract PIN

8502013HW0061C HWQ985 Project ID

COL. 4 COL. 5	CICES EXTENDED (IN F)	DOLLARS CTS DOLLARS CTS			<b>8</b>			s			·		w.	
COL. 3	CLASSIFICATIONS			OVER)	w.	SEEDING		w l	TREE CONSULTANT			24" R.C.P. CLASS III STORM SEWER, ON CONCRETE CRADLE	st.	
COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		41.0	ЕАСН		2,100.0	S.Y.		1,785.0	P/HR		716.0 L.F.		
COL. 1	ITEM NUMBER (SEQUENCE NO.)		4.18 D	(013)		4.20	(014)		4.21	(015)		50.21M3C024D (016)		

06/30/2014

**BID PAGES** 2:36PM

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

Contract PIN

8502013HW0061C HW0985 Project ID

DIVISION OF INFRASTRUCTORE - BUREAU OF DESIGN	 SER ENGINEER'S CLASSIFICATIONS UNIT PRICES EXTENDED AMOUNTS ESTIMATE OF (IN FIGURES) (IN FIGURES)		\$	349.0 36" R.C.P. CLASS III STORM SEWER, ON	L.F. CONCRETE CRADLE		275.0 24" R.C.P. CLASS III STORM SEWER, ENCASED	L.F. IN CONCRETE	27.0 30" R.C.P. CLASS III STORM SEWER, ENCASED	IN CONCRETE	w w	
	 ITEM NUMBER ES (SEQUENCE NO.) OU	50.21M3C030D		50.21M3C036D	(018)		50.21M3E024D	(019)	50.21M3E030D	(020)		

NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION

Contract PIN Project ID

PIN 8502013HW0061C ID HW0985

## CIS EXTENDED AMOUNTS (IN FIGURES) COL. 5 DOLLARS w so, w CIS UNIT PRICES (IN FIGURES) COL. 4 DOLLARS CLASS III STORM SEWER, ENCASED 12" E.S.V.P. STORM SEWER, ON CONCRETE CRADLE 15" E.S.V.P. STORM SEWER, ON CONCRETE 18" E.S.V.P. STORM SEWER, ON CONCRETE DIVISION OF INFRASTRUCTURE - BUREAU OF DESIGN CLASSIFICATIONS COL. 3 IN CONCRETE 36" R.C.P. CRADLE CRADLE 356.0 ENGINEER'S ESTIMATE OF 92.0 285.0 L.F. L.F. 353.0 L.F. L.F. OUANTITIES COL. 2 (SEQUENCE NO.) ITEM NUMBER COL. 1 50.21M3E036D 50.31MC12 50.31MC15 50.31MC18 (021) (022)(023)(024)

06/30/2014 2:36PM

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

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SEQUENCE NO.) 50.31ME12 (025) 51.11P005 51.11P006 51.11P006	ENGINEER'S ESTIMATE OF OUANTITIES  118.0  L.F.  L.F.  EACH  EACH	CLASSIFICATIONS  12" E.S.V.P. STORM SEWER, ENCASED IN CONCRETE  STANDARD 5'-0" DIAMETER PRECAST MANHOLE STANDARD 6'-0" DIAMETER PRECAST MANHOLE	COL. 4 UNIT PRICES (IN FIGURES) S S S S S S S S S S S S S S S S S S	8 B	EXTENDED AMOUNTS (IN FIGURES)  DOLLARS  OTHERS	o B B B B B B B B B B B B B B B B B B B
51.11P007 (028)	3.0 EACH	STANDARD 7'-0" DIAMETER PRECAST MANHOLE	V.			

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	GURES)	S CTS DOLLARS CTS		\$ D			<b>85</b>		<b>м</b>			w-	
COL	IN E	DOLLARS		w			w.		<b></b>			w	
CLASSIFICATIONS		OW TIMERALL NO 4			OUTFALL NO. 2			OUTFALL NO. 3		OUTEALL NO. 4			
COL. 2 ENGINEER'S	ESTIMATE OF OUANTITIES	7	EACH		1.0	EACH		1.0	ЕАСН	1.0	EACH		
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	51.61F001	(037)		51.61F002	(038)		51.61F003	(650)	51.61F004	(040)		

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

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	COL. 4 COL. 5	UNIT PRICES EXTENDED AMOUNTS (IN FIGURES)	DOLLARS CTS DOLLARS CTS			w						w.			w	
DIVISION OF INFRASI ROCI URE - BUREAU OF DESIGN	COL. 3	CLASSIFICATIONS		OUTFALL NO. 5			12" DUCTILE IRON PIPE BASIN CONNECTION				AUDIO-VISUAL RECORDING OF SEWERS		ABANDONING BASINS AND INLETS	,		
	COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		1.0	EACH		863.0	L.H.		2,712.0	L.F.		3.0	ЕАСН		
	COI. 1	ITEM NUMBER (SEQUENCE NO.)		51.61F005	(041)		52.11D12	(042)		53.11DR	(043)		55.11AB	(044)		

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

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HW0985

CIS EXTENDED AMOUNTS (IN FIGURES) COL. 5 DOLLARS ↭ S. CIS UNIT PRICES (IN FIGURES) COI. DOLLARS FURNISHING AND INSTALLING APPROACH ANCHOR UNITS FOR STEEL BACKED TIMBER GUIDE RAIL WITH TIMBER POSTS AND BLOCK-OUTS TIMBER GUIDE RAIL WITH TIMBER POSTS AND BLOCK-OUTS FURNISHING AND INSTALLING STEEL BACKED CLASSIFICATIONS COL. 3 PERMANENT STEEL SHEETING UNCLASSIFIED EXCAVATION 10,500.0 S.F. 2,233.0 2,000.0 EACH L.F. 2.0 ESTIMATE OF ENGINEER'S OUANTITIES COL. 2 (SEQUENCE NO.) ITEM NUMBER COL. 1 6.19 SBTA 6.19 SBTB 6.02 AAN 552.11 (045)(046)(047) (048)

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UNTS	CIS				_	<u> </u>	_ <del> </del>	<u> </u>	_   _
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		s,		w		w		w
	CIS								
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS		8		S		on-		\$
COL. 3 CLASSIFICATIONS		REMOVE EXISTING GUIDE RAIL		PRECAST CONCRETE WHEEL STOPS		ENGINEER'S FIELD OFFICE (TYPE C)		PHOTOGRAPHS	
COL. 2 ENGINEER'S ESTIMATE OF		2,452.0 L.F.		24.0 EACH	i	21.0 MONTH		1,223.0 SETS	
COL. 1 ITEM NUMBER (SEQUENCE NO.)		6.30 AR (053)		6.31 WS (054)		6.40 C (055)		6.43 (056)	

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		UNIT PRICES EXTENDED AMOUNTS (IN FIGURES) (IN FIGURES)	DOLLARS CTS DOLLARS CTS		w						w			<i>v</i>	
DESIGN OF THE MAST NOCTONE - BONEAU OF DESIGN		CLASSIFICATIONS	О	THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS (4" WIDE)	φ.	TEMPORARY PAVEMENT MARKINGS (4" WIDE)		S. C.	CLEANING OF DRAINAGE STRUCTURES		60	CROSSING GUARD		w.	
	COL. 2	ESTIMATE OF OUNTITIES		3,061.0 L.F.		184.0	다. 되.		4.0	EACH		1,697.0	P/HR		
	COL. 1	(SEQUENCE NO.)		6.44		6.49	(058)		6.50	(059)		6.52 CG	(090)		

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

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	Ø	CTS		1	1	1	1	· <b> </b>	-	
	COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		v.		w		· · · · · · · · · · · · · · · · · · ·		S
	m 🔿	CIS				ļ		1		
	COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS		w		w		\$		w.
6 100	CLASSIFICATIONS		REMOVE EXISTING LANE MARKINGS (4" WIDE)		SAWCUTTING EXISTING PAVEMENT		TEMPORARY CONCRETE BARRIER WITH FENCE		SUBBASE COURSE, SELECT GRANULAR MATERIAL	
COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		735.0 L.F.		991.0 L.F.		3,938.0 L.F.		2,053.0 C.Y.	
COL. 1	ITEM NUMBER (SEQUENCE NO.)	, L	(061)		6.55 (062)		6.59 PF (063)		6.67	

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

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COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS				
		CTS	ه <sup>ا</sup> ا	&   	<b>ω</b>	w v
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	82	w-	\$	40-
COL. 3	CLASSIFICATIONS		GRINDING EXISTING ASPHALTIC CONCRETE WEARING COURSE	REMOVING EXISTING TRAFFIC AND STREET NAME SIGNS	REMOVING EXISTING TRAFFIC AND STREET NAME SIGN POSTS	FURNISHING NEW NON-REFLECTORIZED TRAFFIC SIGNS
COL. 2	ENGINEER'S ESTIMATE OF	COMPLITIES	2,737.0 C.Y.	872.0 S.F.	1,352.0 L.F.	72.0 S.F.
COL. 1	ITEM NUMBER	(SEQUENCE NO.)	6.75	6.82 A (066)	6.82 B (067)	6.83 AA (068)

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

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70	CIIS		1	1	] 1	11
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	w,		w	φ,	49-
	CIS					
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	w.			•	w.
COL. 3 CLASSIFICATIONS		FURNISHING NEW TRAFFIC SIGN POSTS	FURNISHING NEW REFLECTORIZED TRAFFIC SIGNS		INSTALLING TRAFFIC SIGNS	INSTALLING TRAFFIC SIGN POSTS
COL. 2 ENGINEER'S ESTIMATE OF OUANTITIES		1,103.0 L.F.	756.0 S.F.		830.0 S.F.	1,103.0 L.F.
COL. 1 ITEM NUMBER (SEQUENCE NO.)		6.83 AB (069)	6.83 AR (070)		6.83 BA (071)	6.83 BB (072)

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COL. 4  COL. 5  UNIT PRICES EXTENDED AMOUNTS  (TW ETCHINES)	CTS					40-		40-				
COL. 3 CLASSIFICATIONS		FURNISHING NEW STREET NAME SIGNS	v <sub>2</sub>	FURNISHING NEW STREET NAME SIGN POSTS		es.	INSTALLING STREET NAME SIGNS	vs.	INSTALLING STREET NAME SIGN POSTS		45	
COL. 2 ENGINEER'S ESTIMATE OF	OUANTITIES	42.0 S.F.		250.0	L.F.		42.0	ο Ei	250.0	H.		
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	6.86 AA (073)		6.86 AB	(074)		6.86 BA	(075)	6.86 BB	(076)		



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	Amounts URES)	CTS		_	<del> </del>				<del> </del>	
COL	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS		w		w		<b>&amp;</b>		w.
	<b>70.</b> O	CIS				J				
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS		w		<b>v</b>		<b>v</b>		w
COL. 3	CLASSIFICATIONS		PLASTIC BARRELS		AUDIO AND VIDEO DOCUMENTATION SURVEY		FURNISHING AND DELIVERING 6-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)		FURNISHING AND DELIVERING 8-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)	
COL. 2	ENGINEER'S ESTIMATE OF OUANTITIES		1,520.0 EACH		1.0 L.S.		399.0 L.F.	·	4,948.0 L.F.	
COL. 1	ITEM NUMBER (SEQUENCE NO.)	20 2	(077)		6.99		60.11R606 (079)		60.11R608 (080)	

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Contract PIN 8502013HW0061C Project ID HWQ985

COL. 1	COL. 2	COL. 3	COL. 4		COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)		EXTENDED AMOUNTS (IN FIGURES)	ស
(SEQUENCE NO.)	OUANTITIES		DOLLARS	CTS	DOLLARS	CIS
60.12D06 (081)	419.0 L.F.	LAYING 6-INCH DUCTILE IRON PIPE AND FITTINGS				
			·		\$	
60.12D08 (082)	5,054.0 L.F.	LAYING 8-INCH DUCTILE IRON PIPE AND FITTINGS				
			8		w	
60.13M0A24 (083)	23.0 TONS	FURNISHING AND DELIVERING DUCTILE IRON MECHANICAL JOINT 24-INCH DIAMETER AND SMALLER FITTINGS, INCLUDING WEDGE TYPE RETAINER GLANDS				
			\$		\$	1
605.0901	22.0	UNDERDRAIN FILLER, TYPE 1			,	
(084)	C. K.				w	

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	ន្ទ	CTS				
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	<b>S</b>	v <sub>r</sub>	U)	s.
		CTS				
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	w	w	w.	*
COL. 3	CLASSIFICATIONS		PERFORATED POLYVINYL CHLORIDE UNDERDRAIN PIPE	FURNISHING AND DELIVERING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	FURNISHING AND DELIVERING 8-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	FURNISHING AND DELIVERING 8-INCH WET CONNECTION TAPPING VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS
COL. 2	ENGINEER'S ESTIMATE OF		263.0 L.F.	19.0 EACH	24.0 EACH	50.0 EACH
COL. 1	ITEM NUMBER		605.1602 (085)	61.11DMM06 (086)	61.11DNM08 (087)	61.11TWC08 (088)

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	SH	CTS				
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	w.	w	w.	v)
		CIS				
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	w	85	w.	w-
COL. 3	CLASSIFICATIONS		SETTING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	SETTING 8-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	SETTING 8-INCH WET CONNECTION TAPPING VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	FURNISHING AND DELIVERING HYDRANTS - SMITH TYPE (S-2-LP)
COL. 2	ENGINEER'S ESTIMATE OF		19.0 EACH	24.0 EACH	50.0 EACH	19.0 EACH
COL. 1	ITEM NUMBER	*	61.12DMM06 (089)	61.12DMM08 (090)	61.12TWC08 (091)	62.11SS (092)

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COL. 5	EXTENDED AMOUNTS (IN FIGURES)	S DOLLARS CTS		w		w		w.		w.
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS CTS		w		•		w		<u> </u>
COL. 3	CLASSIFICATIONS		SETTING HYDRANTS COMPLETE WITH WEDGE TYPE RETAINER GLANDS		REMOVING HYDRANTS		FURNISHING, DELIVERING AND INSTALLING HYDRANT FENDERS WITH DECORATIVE CAPS (BLACK)		COBBLE GUTTERS	
COL. 2	ESTIMATE OF OUANTITIES		19.0 EACH		15.0 EACH		38.0 EACH		44.0 S.F.	
COL. 1 ITEM NUMBER	(SEQUENCE NO.)	2007	62 · 128G (093)		62.13RH (094)		62.14FD (095)		624.0401 (096)	

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COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS			0				w		
	m 🔿	CIS			<u> </u>						
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	The party of the p		w		w.		w.		\$
COL. 3	CLASSIFICATIONS		FURNISHING AND DELIVERING VARIOUS CASTINGS			WITHDRAWING AND REPLACING HOUSE SERVICES USING 1-1/2-INCH OR LARGER SCREW TAPS		WITHDRAWING AND REPLACING HOUSE SERVICES USING SMALLER THAN 1-1/2-INCH SCREW TAPS		CUTTING AND OFFSETTING HOUSE SERVICE WATER CONNECTIONS (EQUAL TO OR GREATER THAN 3-INCH DIAMETER)	
COL. 2	ENGINEER'S ESTIMATE OF		18.0	TONS		34.0		16.0 EACH		137.0 L.F.	
COL. 1	ITEM NUMBER		63.11VC	(097)		64.11EL (098)		64.11ST (099)		64.12COEG (100)	

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COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	W-		w-	<u> </u>
	CIS		<u> </u>		
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS	w.	w.	w.	w
COL. 3 CLASSIFICATIONS		CUTTING AND OFFSETTING HOUSE SERVICE WATER CONNECTIONS (LESS THAN 3-INCH DIAMETER)	EXTENDING HOUSE SERVICE WATER CONNECTIONS (EQUAL TO OR GREATER THAN 3-INCH DIAMETER)	EXTENDING HOUSE SERVICE WATER CONNECTIONS (LESS THAN 3-INCH DIAMETER)	FURNISHING, DELIVERING AND INSTALLING WET CONNECTION SLEEVE ON 8-INCH WATER MAIN PIPE WITH VARIOUS OUTLETS
COL. 2 ENGINEER'S ESTIMATE OF OUANTITIES		126.0 L.F.	441.0 L.F.	347.0 L.F.	50.0 EACH
COL. 1 ITEM NUMBER (SEQUENCE NO.)		64.12COLT (101)	64.12ESEG (102)	64.12ESLT (103)	64.13WC08 (104)

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COL. 1	COL. 2	<u>cor. 3</u>	COL. 4	COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES	EXTENDED AMOUNTS	
(SEQUENCE NO.)	OUANTITIES		DOLLARS	DOLLARS CTS	<u>م</u>
65.11BR (105)	268.0 LBS.	FURNISHING, DELIVERING AND INSTALLING BANDS, RODS, WASHERS, ETC., COMPLETE, FOR RESTRAINING JOINTS			.
			w,	φ.	
65.21PS (106)	5,347.0	FURNISHING AND PLACING POLYETHYLENE SLEEVE			
		Unit price bid shall not be less than: \$ 0.50	w	Wr.	
65.31FF (107)	175,106.0 S.F.	FURNISHING, DELIVERING AND PLACING FILTER FABRIC			
		Unit price bid shall not be less than: \$ 0.10	W-	w	
65.51PC (108)	32.0 C.Y.	FURNISHING AND PLACING CAST-IN-PLACE CONCRETE CLASS 40 AND PRECAST CONCRETE CLASS 50			1
			\$		
					1



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COL. 1	COL. 2	COL. 3	COL. 4		COI. 5	
	ENGINEER'S ESTIMATE OF OUANTITIES	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)		EXTENDED AMOUNTS (IN FIGURES)	ន្ទ
			DOLLARS	CIS	DOLLARS	CILS
	5,183.0 LBS.	FURNISHING, DELIVERING AND PLACING STRUCTURAL, REINFORCING AND MISCELLANEOUS STEEL				
	·		w-		w	
	480.0 C.Y.	FURNISHING, DELIVERING AND PLACING SCREENED GRAVEL OR SCREENED BROKEN STONE BEDDING	w		w	
	15.0 EACH	PROCTOR ANALYSIS	w.		w-	
	45.0 EACH	IN-PLACE SOIL DENSITY TEST	w.		w.	 

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ITEM NOMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	δ
			DOLLARS	DOLLARS	CIS
7.13 в	15.0	MAINTENANCE OF SITE			
(113)	MONTH				
		Unit price bid shall not be less than: \$ 7,214.00	<b>V</b>	w.	1
7.16 D	210.0	TEST PITS			
(114)	G.K.				
				w.	
7.36	6,300.0	PEDESTRIAN STEEL BARRICADES			
(115)	L.F.				
				w	1
7.88 AA (116)	1.0	RODENT INFESTATION SURVEY AND MONITORING			
		Unit price bid shall not be less than: \$ 3,150.00	47-	w	İ



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COL. 1 ITEM NUMBER	COL. 2 ENGINEER'S	CLASSTETCHA	COL. 4		COL. 5	
(SEQUENCE NO.)	ESTIMATE OF OUANTITIES		(IN FIGURES)		EATENDED AMOUNTS (IN FIGURES)	'n
			DOLLARS	CIS	DOLLARS	CIS
7.88 AB	114.0	RODENT BAIT STATIONS				
(117)	EACH					
		Unit price bid shall not be less than: \$ 63.00	w	w ·		
7.88 AC	114.0	BAITING OF RODENT BAIT STATIONS				
(118)	EACH					
		Unit price bid shall not be less than: \$ 11.00	w	<u>»</u>		1
7.88 AD	189.0	WATERBUG BAIT APPLICATIONS		+		
(119)	BLOCK			•		
		Unit price bid shall not be less than: \$ 68.00		w .		1
70.31FN	16,368.0	FENCING				
(120)	Н.					
		Unit price bid shall not be less than: \$ 1.00	<b>*</b>	<u>w</u>	_	ļ
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4 COL. 5	RICES EXTENDED AMOUNTS UNES) (IN FIGURES)	CTS DOLLARS CTS						<i>y</i>					w.
COL	UNIT PRICES (IN FIGURES)	DOLLARS			w			W.			w.		w
COL. 3	CLASSIFICATIONS		EXCAVATION OF BOULDERS IN OPEN CUT		Unit price bid shall not be less than: \$ 42.00	ROCK EXCAVATION			CLEAN BACKFILL		Unit price bid shall not be less than: \$ 7.50	FURNISHING AND PLACING SHEETING AND BRACING IN TRENCH FOR WATER MAIN PIPE 12-INCH IN DIAMETER AND LESS	
COL. 2	ENGINEER'S ESTIMATE OF	237 TT 1W00	10.0	C.Y.		22.0	C.Y.		 630.0	C.Y.		536.0 S.F.	
COL. 1	ITEM NUMBER		70.51EO	(121)		70.61RE	(122)		70.81CB	(123)		70.91SW12 (124)	

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CIS EXTENDED AMOUNTS (IN FIGURES) COL. 5 DOLLARS 40 CTS UNIT PRICES (IN FIGURES) COL. 4 DOLLARS ADDITIONAL EARTH EXCAVATION INCLUDING TEST PITS (ALL DEPTHS) HYDRAULIC FILL FOR ABANDONED SEWERS AND Unit price bid shall not be less than: \$ 11.50 ADDITIONAL SELECT GRANULAR BACKFILL Unit price bid shall not be less than: \$ 9.00 CLASSIFICATIONS COL. 3 CONSTRUCTION REPORT WATER MAINS 1.0 C.Y. 210.0 158.0 1.0 ENGINEER'S ESTIMATE OF C.Y. C.Y. OUANTITIES COL. 2 (SEQUENCE NO.) ITEM NUMBER COL. 1 73.31AE0 72.11HF 73.41AG 76.11CR (125)(126)(127)

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SE	CTS									
COL. 5 EXTENDED AMOUNTS (IN FIGURES)	DOLLARS			·		vo.		v.		en.
	CTS					ı				
CES		<del> </del>		- †	<del> </del>		-		1	
COL. 4 UNIT PRICES (IN FIGURES)	DOLLARS			w		<b>v</b>		w.		w
COL. 3 CLASSIFICATIONS		HEALTH AND SAFETY			REMOVAL, TREATMENT, AND DISCHARGE/DISPOSAL OF CONTAMINATED WATER		SAMPLING AND TESTING OF CONTAMINATED WATER		SPECIAL CARE EXCAVATION AND RESTORATION FOR SIDEWALK WORK	
COL. 2 ENGINEER'S ESTIMATE OF		1.0	L.S.		22.0 DAY		5.0	SEES	2,363.0 S.F.	
COL. 1 ITEM NUMBER (SEQUENCE NO.)		8.01 s	(133)		8.01 W1 (134)		8.01 W2	(135)	8.02 A (136)	

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

8502013HW0061C Contract PIN Project ID

HWQ985

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

Contract PIN Project ID

8502013HW0061C HWQ985

COL. 1	COL. 2	COL. 3	COT. 4		
ITEM NUMBER	ENGINEER'S	CLASSIFICATIONS	POTOG BINI	5001. 3	
(SEQUENCE NO.)	OUANTITIES		(IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	UNITS S)
BMB-7 107 B			DOLLARS	S DOLLARS	CIS
g_/01:/_ga	65.0	RIP-RAP AND ANGULAR NATURAL FIELD STONE			_
(141)	C.Y.				
			<u></u>	\$	- ‡
					- <del></del>
BMP-7.109A	23,237.0	GEOGRID			1
(142)	S.F.				
				w	<u> </u>
BMP-7.302					
(143)	18,900.0	CLEARING, GRUBBING AND REMOVALS			
			,	w	
BMF-1.308	547.0	FILL			<u> </u>
(144)	C.Y.				— <del>-</del>
				Ø.	- — <del>,</del>
					<u> </u>
					-

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

Contract PIN 8502013HW0061C Project ID HW0985

COL. 1	COL. 2	COL. 3	COI. 4		COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)		EXTENDED AMOUNTS (IN FIGURES)	ន្ទ
			DOLLARS	CTS	DOLLARS	CIS
BMP-7.308A	733.0	SELECT GRANULAR FILL				
(145)	C.Y.					
			*		w	1
BMP-7.312-E	14.0	DEMOLITION AND SITE CLEARING				ŀ
(146)	C.Y.					
					- <del></del> -	
BMP-7.401-A	40.0	CANOPY TREES (2 1/2" TO 3" CALIPER)				
(147)	EACH					
			*		w.	ļ
BMP-7.401-H	30.0	SHRUBS				
(148)	EACH					
			\$	-	w	



Contract PIN

Project ID

8502013HW0061C HWQ985

	ស្គ	CIS									1				
COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS			w			*						· ·	
		CTS													
COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS			\$			***			\$			₩.	
COL. 3	CLASSIFICATIONS		HERBACEOUS PLANTS (PLUGS)			TOPSOIL			RESTORATION SPECIALIST			EROSION CONTROL MAT			
COL. 2	ENGINEER'S ESTIMPTE OF	64111	2,230.0	EACH		0.69	C.Y.		126.0	HRS		18,900.0	S.F.		,
COL. 1	ITEM NUMBER		BMP-7.401-J	(149)		BMP-7.403	(150)		BMP-7.404-A	(151)		BMP-7.407-A	(152)		

06/30/2014 **BID PAGES** 2:36PM

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

Contract PIN

8502013HW0061C HWQ985 Project ID

COL. 1 ITEM NUMBER (SEQUENCE NO.)	COL. 2 ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	PRICES GURES)	S AMOUNTS GURES)	
BMP-7.417 (153)	2,100.0 L.F.	DEBRIS EXCLUSION FENCE	S CTS	DOLLARS CT	SHS
BMP-7.420 CR (154)	5.0 EACH	CHUTE RESTORATION	W.	w.	<b>.</b> 1
BMP-7.420 GR (155)	2.0 EACH	GUTTER RESTORATION	\$	v.	I :
BMP-7.504A (156)	452.0 L.F.	SILT FENCE	w.	v2	1 1

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

Contract PIN

8502013HW0061C

HWQ985

Project ID

COL. 1	COL. 2	COL. 3	COL. 4	COT. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES	EXTENDED AMOUNTS	Ø
(SEQUENCE NO.)	OUANTITIES		GURES)	(IN FIGURES)	
DVD_7 E10			DOLLARS	DOLLARS	CTS
016:/-	2.0	PORTABLE SEDIMENT TANK			
(157)	EACH				
			•	ν,	
					ŀ
BMP-7.511	135.0	STORM DRAIN INLET PROTECTION			
(158)	EACH				
			·	<b>.</b>	
					ŀ
BMP-7.602	300.0	BOULDERS			
(159)	EACH				
				w	l
BMP-7.614A	0.960,8	BLOCK CURB			
(160)	L.F.				
					ł
-					

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

Contract PIN

8502013HW0061C HW0985 Project ID

COL. 1	COL. 2	<u>ε · που</u>	COL. 4	COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)	EXTENDED AMOUNTS (IN FIGURES)	
(SEÇUENCE NO.)			DOLLARS	DOLLARS	CIS
НМ-900Н	1.0	ALLOWANCE FOR CITY WORK ACCELERATION			
(161)	Η Ω.	PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 50,000.00	\$ 50,000,00	\$ 50,000.00	<u>e</u>
HW-908 (162)	1.0 H.S.	ALLOWANCE FOR EXTRA WORK DUE TO ARCHAEOLOGICAL DISCOVERIES PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 50,000.00	\$ 50,000.00	\$ 50,000,00	81
UTL-6.01.1 (163)	2.0 EACH	GAS MAIN CROSSING SEWER UP TO 24" IN DIAMETER (S6.01)			
		Unit price bid shall not be less than: \$ 1,040.00	w-	w.	1
UTL-6.01.9 (164)	1.0 EACH	GAS MAIN CROSSING WATER MAIN UP TO 20" IN DIAMETER (S6.01)			<u> </u>
		Unit price bid shall not be less than: \$ 485.00	10	·	1 1



Contract PIN Project ID

| 8502013HW0061C | HWQ985

COL. 1	COL. 2	COL. 3	COL. 4		COL. 5	
ITEM NUMBER	ENGINEER'S ESTIMATE OF	CLASSIFICATIONS	UNIT PRICES (IN FIGURES)		EXTENDED AMOUNTS (IN FIGURES)	ន្ទ
			DOLLARS	CIS	DOLLARS	CTS
UTL-6.02 (165)	2.0 EACH	EXTRA EXCAVATION FOR THE INSTALLATION OF CATCH BASIN SEWER DRAIN PIPES WITH GAS INTERFERENCES (S6.02)	S.		w	·
		Unit price bid shall not be less than: \$715.00				
UTL-6.04 (166)	2.0 EACH	ADJUST HARDWARE TO GRADE USING SPACER RINGS/ADAPTORS. (STREET REPAVING.) (S6.04)				
		Unit price bid shall not be less than: \$ 35.00	w	1	w	1
UTL-6.05 (167)	5.0 EACH	ADJUST HARDWARE TO GRADE BY RESETTING. (ROAD RECONSTRUCTION.) (S6.05)				
		Unit price bid shall not be less than: \$65.00	, , , , , , , , , , , , , , , , , , ,		w.	
UTL-6.06 (168)	50.0 C.Y.	SPECIAL CARE EXCAVATION AND BACKFILLING (S6.06)				
		Unit price bid shall not be less than: \$ 180.00	v		v.	

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06/30/20	2:36PM	BID PAG

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

Contract PIN 8502013HW0061C Project ID HWQ985

COL. 2 ENGINEER'S ESTIMATE OF	COL. 3 CLASSIFICATIONS	COL. 4 UNIT PRICES (IN FIGURES)		COL. 5 EXTENDED AMOUNTS (IN FIGURES)	ຜ
OUANTITIES		DOLLARS	CIS	DOLLARS	CIS
0.	40.0 TEST PITS FOR GAS FACILITIES (S6.07)				
C.Y.			,		
	s. Unit price bid shall not be less than: \$ 100.00			w	
1.0	GAS INTERFERENCES AND ACCOMMODATIONS				
ъ.	PRICE BID SHALL BE FOR THE FIXED SUM OF \$ 20,000.00	20,000.00	8	\$ 20,000.00	00
		6		1	-



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

Contract PIN

Project ID

8502013HW0061C

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1		ស	CTS				
	COL. 5	EXTENDED AMOUNTS (IN FIGURES)	DOLLARS	s	v <sub>2</sub>	w	
		S (S	CIS	•		.:	
	COL. 4	UNIT PRICES (IN FIGURES)	DOLLARS	SUB-TOTAL:	Æ SUB-TOTAL	TOTAL BID PRICE:	R EACH ITEM.
	<u>cor. 3</u>	CLASSIFICATIONS			MOBILIZATION PRICE BID SHALL NOT EXCEED 4% OF THE ABOVE SUB-TOTAL PRICE.		PLEASE BE SURE A LEGIBLE BID IS ENTERED FOR EACTHE BIDDER SHALL INSERT THE TOTAL BID PRICE INTHE BID FORM ON PAGE C-4 OF THIS BID BOOKLET.
	COL. 2	ESTIMATE OF	OUANTITIES		1.0 LUMP SUM		이 되다
	COL. 1	ITEM NUMBER	(SEQUENCE NO.)		6.39 A (171)		

### SECTION 6.19 SB Steel Backed Timber Guide Rail

**6.19SB.1. DESCRIPTION**. Under this Section, the Contractor shall, at the locations shown on the plans and where directed by the Engineer, furnish, deliver, and install steel backed timber guide rail with timber posts and block-outs; and furnish, deliver, and install approach anchorage units for steel backed timber guide rail with timber posts and block-outs.

Steel-backed timber guide rail shall conform to the requirements of the U.S. Department of Transportation Federal Highway Administration (FHWA) standards for Steel-Backed Timber Guardrail, Type A, Blocked Out System. All materials and construction referenced below shall conform to FHWA Standard Detail Sheets 617-60 and 617-61, and FHWA Standard Specification FP-96, Section 617 Guiderail. "Log rail" shall not be used.

### 6.19SB.2. MATERIALS.

Steel Backed Timber Guide Rail with Timber Posts and Block-Outs.

Steel Rails and Hardware. Steel rails, steel back-up plates, splice plates, and all accessory components and hardware shall be fabricated as shown on the plans. Bolt holes, as necessary, may be enlarged or slotted to permit expansion and contraction and to facilitate erection. The steel rails and steel plates shall be straight and of uniform section.

The steel rails and splice plates, shall meet the requirements of ASTM A36 and shall be galvanized.

Bolts, nuts, washers, and lag screws shall conform to ASTM A325 and shall be galvanized. All other fastener hardware shall conform to ASTM A325, and shall be galvanized.

Certified copies of the test results conducted by the manufacturer of the base metal for the physical and chemical requirements shall be furnished for all steel in the manner and form requested by the Engineer.

Field modifications to the structural steel, such as enlargement of the bolt slots, are not permitted, due to the effect on the crashworthiness of the system.

Timber Rail, Block-outs, and Posts. The timber rail, block-outs, and posts shall conform to AASHTO 168. The timber rail shall be fabricated from dry, well- seasoned, and dressed rough saw Douglas Fir, Southern Pine, or other species having a stress grade of at least 1.45 kips/sq. inch (10 Mpa). Treat the rail and block-out elements with CCA, ACZA, or ACA preservative treatment conforming to AWPA C14 except the minimum retention shall be 0.6 lb/cu. ft. (9.6 kg/m3). A timber post that has a through check, shake, or end split in the same plane as, or a plane parallel to the bolt hole and extending from the top of the post to within three (3") inches (75 mm) of the bolt hole will be rejected.

Basis of Acceptance. The Contractor shall certify that all wood rails, block-outs, and posts were fabricated from timber and lumber which was measured and inspected by an inspector of the appropriate inspection bureau. The lumber inspector's certificates for the timber and lumber used to fabricate the rails, block-cuts, and posts shall also be furnished to the Engineer. A certificate of inspection from a recognized wood inspection service shall be furnished to the Engineer certifying that the preservative treatment of wood rails, block-outs, and posts conforms to the requirements of this specification.

Concrete. Concrete shall meet the requirements specified for Class A Concrete in Section 501, "Portland Cement Concrete - General," of the current Standard Specifications, Construction and Materials, of the

New York State Department of Transportation, Office of Engineering. If the concrete is precast, the concrete shall meet the requirements of Class A Concrete in Section 501, "Portland Cement Concrete - General," except that the requirements for inspection facilities, automated batching controls and recordation do not apply. The batching, mixing, and curing methods and the inspection facilities shall meet the approval of the Department or its representative. The Contractor may submit, for approval by the Engineer, a mix at least equivalent to the specified Class A Concrete, with a minimum cement content of 575 lb/cu. yd. (340 kg/m3)

Precast concrete anchorage units, when selected as an alternate to cast-in-place units by the Contractor, shall meet the requirements of Section 704-03, "Precast Concrete - General" of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering.

Welding. Fabrication welding shall comply with the subsection "Welding" in the New York State Steel Construction Manual, except that radiographic inspection will not be required.

Galvanizing. Galvanizing shall conform to Subsection 719-01 of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering. Galvanizing shall be Type I, except for hardware which shall be Type II.

Preparation and Painting of Steel Components. All materials used in the preparation and painting of galvanized components shall be as specified in Section 657, "Painting Galvanized and Aluminum Surfaces" of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering. The color of the topcoat shall be such that a properly prepared color chip shall be a reasonable visual match to Federal Standard 595B, Color 20059 (weathered brown). Viewing shall be done under North Standard Daylight.

Anchorage Units. Back-up plates shall be galvanized and shall conform to ASTM A36. Reinforcement for the anchor shall conform to Subsection 709-01, "Bar Reinforcement, Grade 60" of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering.

### 6.19SB.3. CONSTRUCTION DETAILS.

Furnishing and Installing Guide Rails. All component parts shall be erected in the position and manner indicated on the plans, using the Type A Block-out system, and as directed by the Engineer.

Prior to installing guide rail, median barrier, transitions, or end terminals, the Contractor shall determine the locations of all structures, including underground structures, that may be affected by the installation. If the determinations disclose that there are conflicts between the proposed installation of guide rail, median barrier, transition, or end terminal and other structures, including underground structures, the Contractor shall discuss with and recommend to the Engineer alternative locations or types of guide rail, median barrier, transition, or end terminal, subject to the approval of the Engineer, that will not be in conflict with the structure, including underground structure.

Wood posts shall be placed by excavating or by using vibratory driving or impact driving equipment approved by the Engineer. Post driving will be permitted only if alignment and grade tolerances are met and providing no damage is done to the posts during installation. Damaged or misaligned posts shall be removed and redriven or replaced by the Contractor as directed by the Engineer. To facilitate driving, the base of the wood posts may be tapered.

Post and anchor excavations shall be backfilled, and backfilled material compacted in accordance with Subsection 203-3.15 "Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables" of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering.

All posts shall be aligned to a tolerance of 0.25" (6 mm) for plumb and grade line. Erect rail elements in a smooth continuous line with the laps in the direction of traffic flow. Use bolts that extend at least 6 millimeters but not more than 25 millimeters beyond the nuts. Tighten all bolts. Paint all scrapes on galvanized surfaces that are through to the base metal with 2 coats of zinc-oxide paint.

The timber rails shall be field cut to produce a fit at the joints as indicated on the plans. Treat field cuts with 2 coats of chromated copper arsenic.

Equally space bolts along the front face of the timber rail to match the holes in the steel backing. Align timber guardrail along the top and front edges of the rail.

In order to give the galvanized components a rustic appearance, all exposed galvanized surfaces shall be prepared and painted in accordance with Section 657 of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering.

At the Contractor's option, the galvanized parts may be painted before installation and any damage to the exposed painted surfaces repaired after erection in accordance with the requirements of Section 657 of the current Standard Specifications, Construction and Materials, of the New York State Department of Transportation, Office of Engineering and the directions of the Engineer.

Upon completion of the installation of the guide rail components, the Contractor shall restore the area to its original state. This may require the Contractor to repave, resod, reseed and mulch all areas disturbed during the guide rail installation, including the areas adjacent to the anchor unit installation.

### 6.19SB.4. METHOD OF MEASUREMENT.

FURNISHING AND INSTALLING Steel Backed Timber Guide Rail With Timber Posts And Block-Outs. The quantity to be measured for payment shall be the actual number of linear feet of guide rail installed to the satisfaction of the Engineer, measured along the axis of the guide rail, between the limits shown on the plans.

FURNISHING AND INSTALLING Approach Anchorage Units For Steel Backed Timber Guide Rail With Timber Posts And Block-Outs. The quantity to be measured for payment shall be the number of approach anchor units installed to the satisfaction of the Engineer.

### 6.19SB.5. BASIS OF PAYMENT.

A. FURNISHING AND INSTALLING Steel Backed Timber Guide Rail With Timber Posts And Block-Outs. The contract price bid for Furnishing and Installing Steel Backed Timber Guide Rail with Timber Posts and Block-Outs shall be a unit price per linear foot and shall cover the cost of all labor, materials, equipment, insurance, and incidentals necessary to complete the work. This work shall include, but not limited to, all painting; furnishing and placing concrete and reinforcement; excavation, backfill, and removal and replacement of damaged or misaligned posts; and, unless otherwise indicated on the plans, the cost of restoring any disturbed areas, paving, sodding, seeding, and mulching, shall be included in the unit price bid.

Payment for each length of guide rail between posts shall include the unit price bid per linear foot multiplied by the measured quantity of guide rail between posts, multiplied by the payment factor for post spacing listed in the following table:

### PAYMENT FACTORS FOR STEEL BACKED TIMBER GUIDE RAIL

Post Spacing

Center to Center Payment Factor 10 ft. (3048 mm) 1.0 5 ft. (1524 mm) 1.8 2.5 ft. (762 mm) 2.5

Progress payments will be made for linear feet items for Steel Backed Timber Guide Rail with Timber Posts and Block-Outs when the guide rail is erected in the position and manner indicated on the plans and in a manner approved by the Engineer, exclusive of restoration of disturbed areas and final alignment. Payment will be made, at the unit price bid, for 90% of the quantity erected. The balance of the quantity erected will be paid for upon proper repair of the disturbed areas and alignment of the guide rail to the specified tolerance.

B. FURNISHING AND INSTALLING APPROACH ANCHOR UNITS FOR Steel Backed Timber Guide Rail With Timber Posts And Block-Outs. The contract price bid for Furnishing and Installing Approach Anchor Units for Steel Backed Timber Guide Rail with Timber Posts and Block-Outs shall be a unit price per each and shall cover the cost of all labor, materials, equipment, insurance, and incidentals necessary to complete the work. This work shall include, but not limited to, all painting; furnishing and placing concrete and reinforcement; excavation, backfill; and, unless otherwise indicated on the plans, the cost of restoring any disturbed areas, paving, sodding, seeding, and mulching, shall be included in the unit price bid.

### Payment will be made under:

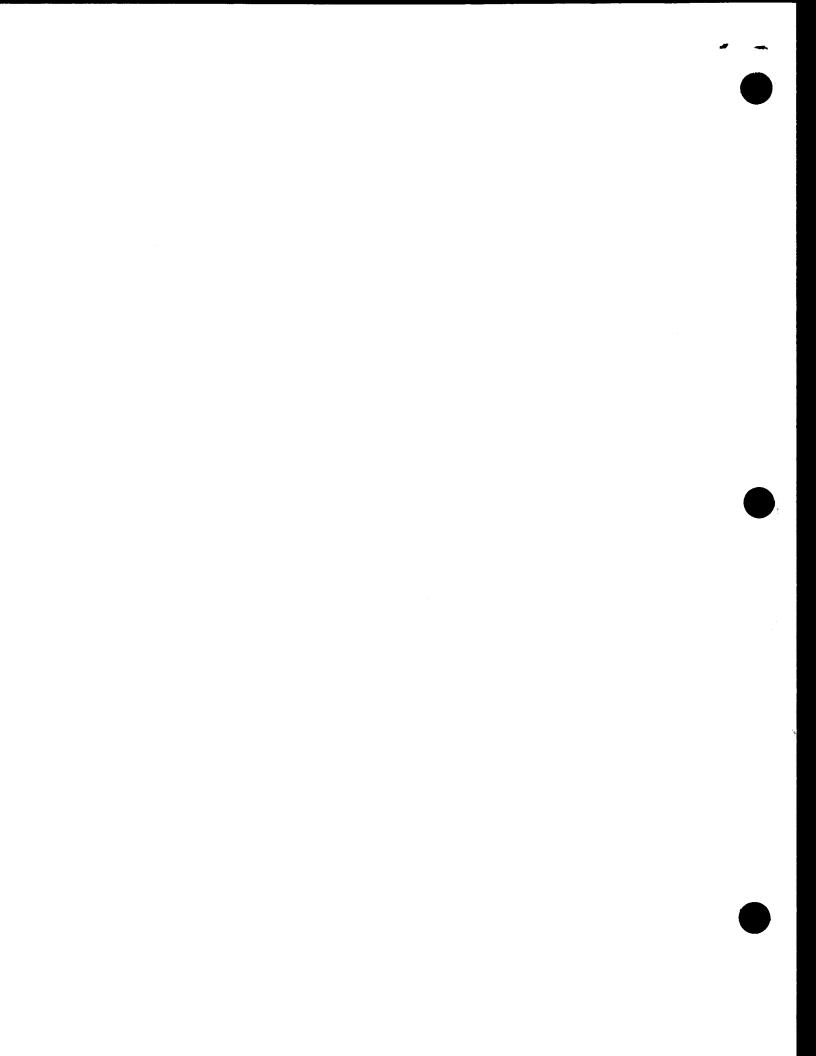
Item No.	Description	Pay Unit
6.19 SBTA	FURNISHING AND INSTALLING STEEL BACKED TIMBER GUIDE RAIL WITH TIMBER POSTS AND BLOCK-OUTS	L.F.
6.19 SBTB	FURNISHING AND INSTALLING APPROACH ANCHORAGE UNITS FOR STEEL BACKED TIMBER GUIDE RAIL WITH TIMBER POSTS AND BLOCK-OUTS	EACH

# CITY OF NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION DIVISION OF INFRASTRUCTURE

## **ADDENDA CONTROL SHEET**

BID OP	ENING DATE: July 16, 2014
PROJE	CT NO.: <u>HWQ985</u>
TITLE:	ROADWAY IMPROVEMENTS IN: SHORE ROAD FROM
	36TH AVE. TO WEST DRIVE.

ADDENDA ISSUED	No. OF DRAWINGS	DATE
#1: Amendments to Standard Highway Specs.		02/24/2014
#2. Sewer and Water Main Specifications		04/11/2014
#3. EP7		03/23/2009
#4. Best Management Practices		04/03/2014
#5. HAZMAT		03/24/2014
#6. Utility Specifications		03/25/2014
#7. Additional Amendments	10	06/30/2014
#8. Additional Amendments	3	07/07/2014



#### ATTACH TO CONTRACT DOCUMENTS

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

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto

BOROUGH OF QUEENS CITY OF NEW YORK

ADDENDUM NO. 8

DATED: July 7, 2014

### THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

- 1. Refer to the Bid and Contract Documents, VOLUME 1 OF 3, ATTACHMENT

  1 BID INFORMATION, page A-1 of the BID BOOKLET;

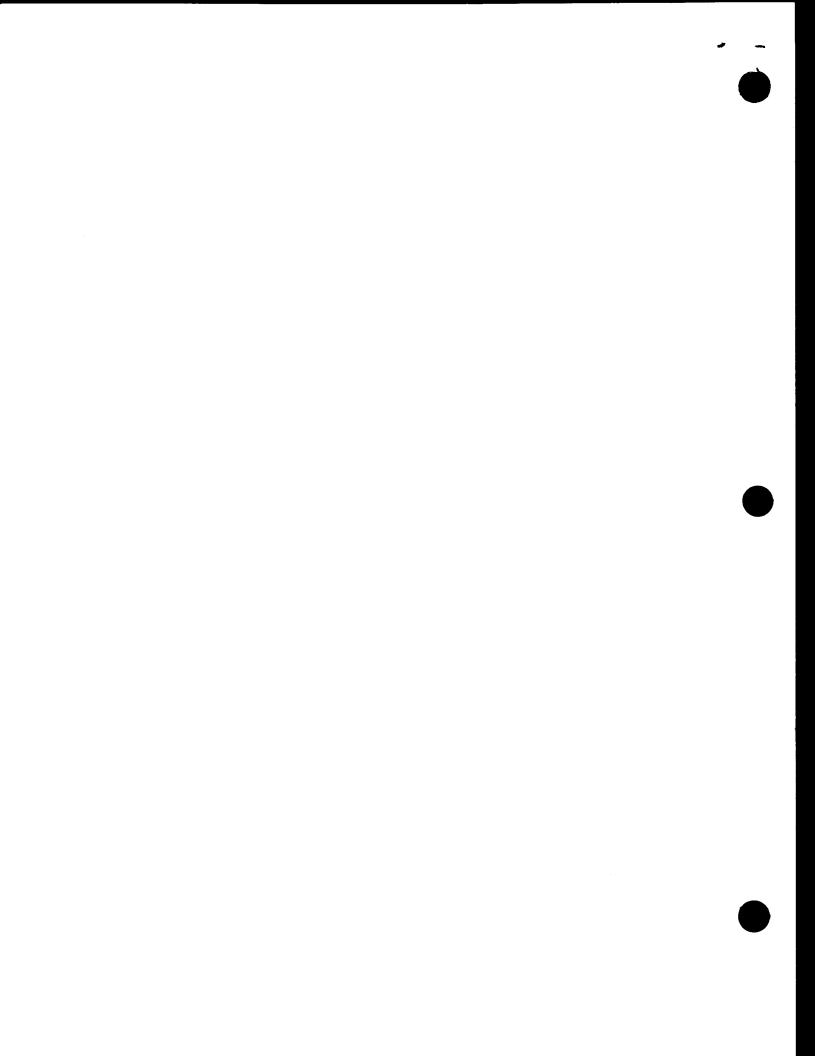
  Change the dates shown for Submission of Bids To: and for Bid

  Opening: from "JULY 9, 2014" as amended by Addendum No. 7 to

  "JULY 16, 2014".
- 2. Refer to the Bid and Contract Documents, VOLUME 1 OF 3, SCHEDULE B M/WBE Participation Goals on page 13 of the BID BOOKLET; Change the date shown for the "Bid/Proposal Response Date" from "JULY 9, 2014" as amended by Addendum No. 7 to "JULY 16, 2014".
- 3. Refer to the Contract Drawings, SHEETS 34 OF 66 and 35 OF 66; Delete SHEETS 34 OF 66 and 35 OF 66, in their entirety; Substitute the attached revised SHEETS 34R OF 66 and 35R OF 66.
- 5. Refer to Contract Drawings, SHEET 2R OF 66, as amended by Addendum No. 7;

  Delete SHEET 2R OF 66, in its entirety;

  Substitute the attached revised SHEET 2RR OF 66.



Project ID. HWQ985

By signing in the space provided below, the bidder acknowledges receipt of this Addendum consisting of two (2) pages and three (3) sheets of drawings.

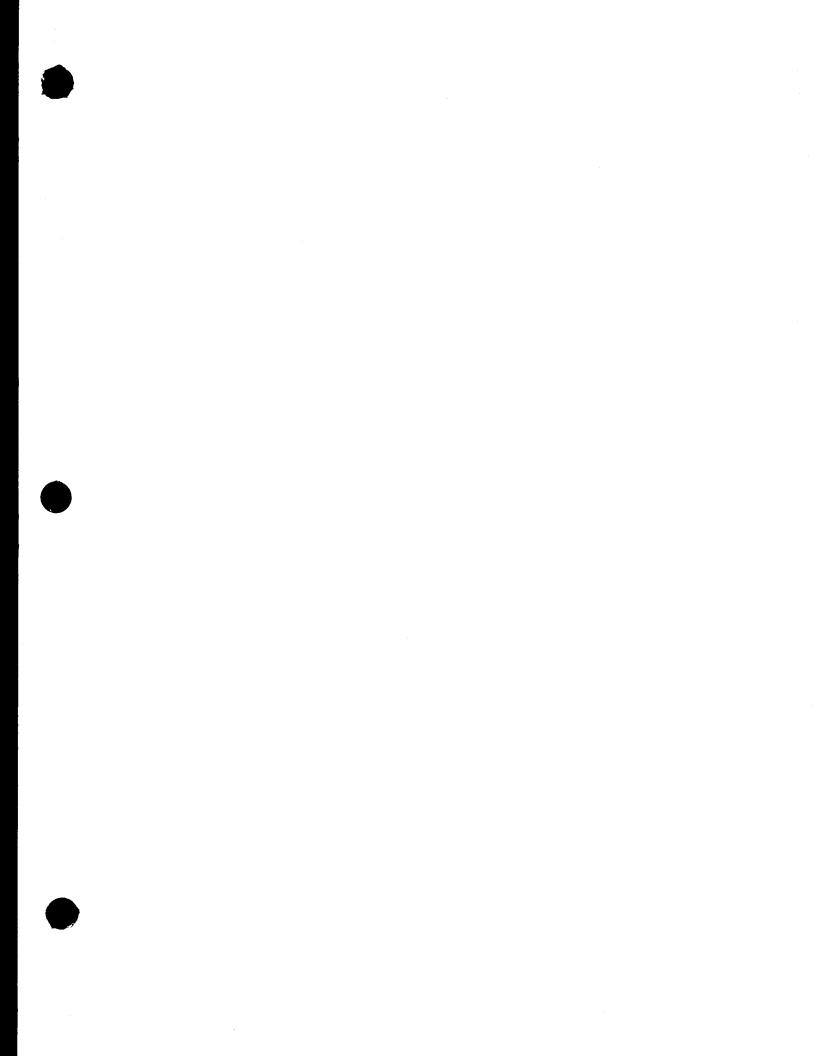
### THIS ADDENDUM MUST BE SIGNED BY ALL BIDDERS AND ATTACHED TO THEIR BID

Mohsen Zargarelahl, P.E.
Assistant Commissioner

Name of Bidder

By: MAder

Appensua #8





## INFRASTRUCTURE DIVISION BUREAU OF DESIGN

### VOLUME 3 OF 3

PROJECT ID: HWQ985

ROADWAY IMPROVEMENTS IN

SHORE ROAD

FROM 36TH AVENUE TO WEST DRIVE

INCLUDING SEWER AND WATER MAIN WORK

Together With All Work Incidental Thereto BOROUGH OF QUEENS
CITY OF NEW YORK

	Contractor.
Dated	