

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 3 OF 3

SCHEDULE A
ADDENDA NOS. 1 TO 3

FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

PROJECT ID: SEX00201Z

FOR THE RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS IN VARIOUS LOCATIONS

> Together With All Work Incidental Thereto BOROUGH OF THE BRONX CITY OF NEW YORK



FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PREPARED BY IN-HOUSE DESIGN

August 5, 2014

SPECIFICATIONS AND STANDARDS OF NEW YORK CITY

The following New York City Department of Transportation (NYCDOT) 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. NYCDOT Standard Highway Specifications, November 1, 2010
- 2. NYCDOT Standard Highway Details of Construction, July 1, 2010
- 3. NYCDOT Division of Street Lighting Specifications
- 4. NYCDOT Division of Street Lighting Standard Drawings
- 5. NYCDOT Standard Specifications for Traffic Signals
- 6. NYCDOT Standard Drawings for Traffic Signals

The following reference documents for New York City Department of Environmental Protection (NYCDEP) are available on-line at: http://www.nyc.gov/html/ddc/html/pubs/pubs_infrastdts.shtml 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. Wagar Ahmad, Tel. (718) 391-2056

- 1. NYCDEP Standard Sewer and Water Main Specifications, July 1, 2014
- 2. NYCDEP Instructions for Concrete Specifications, Jan. 92
- 3. NYCDEP General Specification 11-Concrete, November 1991
- 4. NYCDEP Sewer Design Standards, (September 2007) Revised January 2009

The following reference documents for New York City Department of Environmental Protection (NYCDEP) are available on-line at: http://www.nyc.gov/html/ddc/html/pubs/pubs_infrastdts.shtml 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. NYCDEP Water Main Standard Drawings
- 2. Specifications for Trunk Main Work, dated July 2014
- 3. Standards for Green Infrastructure, latest version, available only on-line at: http://www.nyc.gov/html/dep/pdf/green infrastructure/bioswales-standard-designs.pdf

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: http://www.nycgovparks.org/pagefiles/53/Tree-Planting-Standards.pdf

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 amount indicated to the right.	See Attachment 1 (page A-1 of the Bid Booklet)
INFORMATION FOR BIDDERS SECTION 26 PERFORMANCE AND PAYMENT BONDS The Contractor shall obtain performance and payment bonds in the amount indicated to the right.	See Attachment 1 (page A-1 of the Bid Booklet)
CONTRACT ARTICLE 14. DATE FOR SUBSTANTIAL COMPLETION The Contractor shall substantially complete the Work in the number of calendar days indicated to the right.	See Page SA-4
CONTRACT ARTICLE 15. LIQUIDATED DAMAGES 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.	See Article 15 as amended in the Addendum to the Specifications that is made part of this contract.
CONTRACT ARTICLE 17. SUB-CONTRACTOR The Contractor shall not make subcontracts totaling an amount more than the percentage of the total Contract price indicated to the right.	Not to Exceed 35% of the Contract Price
CONTRACT ARTICLE 21. RETAINAGE The Commissioner shall deduct and retain until the substantial completion of the Work the percent value of the Work indicated to the right.	5% of the Value of the Work
CONTRACT ARTICLE 22. (Per Directions Indicated To The Right)	See pages SA-5 through SA-9

CONTRACT ARTICLE 24. DEPOSIT GUARANTEE 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.	1% of Contract Price
CONTRACT ARTICLE 24. PERIOD OF GUARANTEE	Eighteen (18) Months, excluding Trees
Periods of maintenance and guarantee other than the period set forth in Article 24.1 are indicated to the right.	Twenty-Four (24) Months for Tree Planting
CONTRACT ARTICLE 74. STATEMENT OF WORK The Contractor shall furnish all labor and materials and perform all Work in strict accordance with the Contract Drawings, Specifications, and all Addenda thereto.	See Contract Article 74
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, 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.	See Contract Article 75
CONTRACT ARTICLE 78. PARTICIPATION BY MINORITY-OWNED AND WOMEN- OWNED BUSINESS ENTERPRISES IN CITY PROCUREMENT	See M/WBE Utilization Plan in the Bid Booklet

STANDARD HIGHWAY SPECIFICATIONS SECTION 6.70 LIQUIDATED DAMAGES FOR MAINTENANCE AND PROTECTION OF TRAFFIC

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: \$250.00

For each and every hour of failing to open the entire width of roadway to traffic the morning following a night/weekend work operation: \$500.00

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.

For Each Calendar Day, for Each Occurrence: \$250.00

The Contractor shall substantial with the terms and conditions se		Vork withir	the F	inal Contract Duration determined in accordance
The Base Contract Duration for	this project is	365	cons	ecutive calendar days ("ccds").
	Base Contract Du			when a check mark is indicated before the word y the table set forth below when a check mark is
_	YES		1	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 the 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 the 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-ccds 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 an X in a box () 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 Contract. 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. (2) All person(s) or organization(s), if any, that Article 22.1.1(b) of the Contract requires to be named as Additional Insured(s), with coverage at least as broad as ISO Form CG 20 26. The Additional Insured endorsement shall either specify the entity's name, if known, or the entity's title (e.g., Project Manager). (3) Consolidated Edison Company of New York		

■ Workers' Compensation Art. 22.1.2 Workers' Compensation, Employers' Liability, and Disability Benefits Insurance: Statutory per New York State law without regard to jurisdiction. ■ Employers' Liability Art. 22.1.2 Note: The following forms are acceptable: (1) New York State Workers' Compensation Board Form No. C-105.2, (2) State Insurance Fund Form No. U-26.3, (3) New York State Workers' Compensation Board Form No. DB-120.1 and (4) Request for WC/DB Exemption Form No. CE-200. The City will not accept an ACCRD form as proof of Workers' Compensation or Disability Insurance. Jones Act and U.S. Longshoremen's and Harbor Workers' Compensation or Disability Insurance. Jones Act and U.S. Longshoremen's and Harbor Workers' Compensation or Disability Insurance. Jones Act and U.S. Longshoremen's and Harbor Workers' Compensation or Disability Insurance. In the 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 Substantial Completion of the Work in its entirety. ■ Commercial Auto Llability Art. 22.1.5 \$2,000,000 per accident combined single limit to the Vork in its entirety. \$2,000,000 per accident combined single limit to the Vork in its entirety. \$2,000,000 per accident combined single limit to the Vork in Its entirety. \$2,000,000 per accident combined single limit to the Vork in Its entirety. \$2,000,000 per accident combined single limit to the Vork in Its			
Disability Benefits Insurance Art. 22.1.2 Employers' Liability Art. 22.1.2 Jones Act Jones Act Art. 22.1.3 Art. 22.1.3 Workers Compensation Board Form No. C-105.2, (2) State Insurance Fund Form No. U-26.3, (3) New York State Workers' Compensation Board Form No. DB-120.1 and (4) Request for WC/DB Exemption Form	Workers' Compensation	Art. 22.1.2	
## Employers' Liability	Disability Benefits Insurance	Art. 22.1.2	
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 Act Statutory per U.S. Law. Additional Requirements: (1) (2) Builders' Risk	Employers' Liability	Art. 22.1.2	State Workers' Compensation Board Form No. C-105.2, (2)
Workers Compensation Act Art. 22.1.3 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. Additional Requirements: (1) (2) 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 Substantial Completion of the Work 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 Contractor 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. (2)	☐ Jones Act	Art. 22.1.3	Workers' Compensation Board Form No. DB-120.1 and (4)
Compensation Act: Statutory per U.S. Law. Additional Requirements: (1) (2) 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 Substantial Completion of the Work 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 Contractor 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. (2)		Art. 22.1.3	will not accept an ACORD form as proof of Workers'
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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 Substantial Completion of the Work in its entirety. Art. 22.1.5 \$2,000,000 per accident combined single limit If vehicles are used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90. Additional Insureds: (1) City of New York, including its officials and employees. (2)	☐ Builders' Risk	Art. 22.1.4	100% of Total Value of Work
or gut renovation work, the Contractor may provide an installation floater in lieu of Builders Risk insurance. Note: Builders Risk Insurance may terminate upon Substantial Completion of the Work in its entirety. **Substantial Completion** **Substantia			Insured and one of the loss payees as its interests may
Substantial Completion of the Work in its entirety. Art. 22.1.5 \$2,000,000 per accident combined single limit If vehicles are used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90. Additional Insureds: (1) City of New York, including its officials and employees. (2)			or gut renovation work, the Contractor may provide an
If vehicles are used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90. Additional Insureds: (1) City of New York, including its officials and employees. (2)			· · · · · · · · · · · · · · · · · · ·
Contractor 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. (2)	Commercial Auto Liability	Art. 22.1.5	\$2,000,000 per accident combined single limit
(1) <u>City of New York, including its officials and employees.</u> (2)			Contractor shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as
(2)			
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(3)			
			(3)

☐ Contractors Pollution Liability	Art. 22.1.6	\$ per occurrence
		\$ aggregate
		Additional Insureds:
		(1) City of New York, including its officials and employees.
		(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.
		(2)
		(3)
☐ Hull and Machinery Insurance	Art. 22.1.7(b)	\$ per occurrence
		\$ aggregate
		Additional Insureds:
		(1) City of New York, including its officials and employees.
	•	(2)
		(3)
☐ Marine Pollution Liability	Art. 22.1.7(c)	\$ per occurrence
		\$ aggregate
		Additional Insureds:
		(1) City of New York, including its officials and employees.
		(2)
		(3)

[OTHER] Art. 22.1.8 Railroad Protection Liability Policy	\$2,000,000 per occurrence	
(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:	\$6,000,000 annual aggregate Named Insureds: (1) (2)	
 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 Number 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 thirty (30) days of the Binder Approval. 		
[OTHER]	Art. 22.1.8	
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.		
extended reporting period option or automatic option, the Contractor's Professional Engineer st	essional Liability Insurance. All such policies shall have an coverage of not less than two (2) years. If available as an hall purchase extended reporting period coverage effective on ess a new policy is secured with a retroactive date, including	
[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	
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)]
	[E-Mail 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 of _	, 20
NOTARY PUBLIC FOR THE STATE OF	

SCHEDULE "A"

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

PART IV. ADDRESS OF COMMISSIONER

Wherever reference is made in Article 7 or Article 22 to documents to be sent to the **Commissioner** (e.g., notices, filings, or submissions), such documents shall be sent to the address set forth below or, in the absence of such address, to the **Commissioner's** address as provided elsewhere in this **Contract**.

DDC Director, Insurance Risk Manager
30 - 30 Thomson Avenue, 4th Floor (IDCNY Building)
Long Island City, NY 11101

ATTACH TO CONTRACT DOCUMENTS

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

PROJECT ID: SEX00201Z

FOR THE RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS IN VARIOUS LOCATIONS

Together With All Work Incidental Thereto
BOROUGH OF THE BRONX
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 Section 6.44 PO and 6.52 CG.

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]

 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;

<u>Delete</u> 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;

<u>Delete</u> 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;

Change 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...";

Substitute 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.";

Insert the following sentence between the words "condition making up one

(1) cubic vard 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, 4th 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."

AMENDMENTS TO STANDARD HIGHWAY SPECIFICATIONS, VOLUME II

[Added 01-25-2012]

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."

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:

> One (1) 600 DPI HP Color Laser Jet all-in-one "(b) 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;

Delete 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 REQUIR REQUIREMENTS; Delete the requirements for a Photocopy Machine sh row of TABLE 6.40-I, in its entirety; Substitute the following revised requirements:				
Photocopying Machine – Stand-alone, heavy duty, electric, dry-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.	1	1	1	1
				_

5. <u>Refer</u> to Page 368, TABLE 6.40-I, ADDITIONAL REQUIREMENTS SPECIFIC REQUIREMENTS;
Insert the following two additional requirements:

Heavy duty commercial grade diamond cut shredder with automatic start. The shredder shall be able to receive 8-1/2 inch wide paper and shred a minimum of 15 sheets simultaneously along with CDs and staples.	1	1	1	1	1	1
Projector – 1080p LCD with a min. of 2200 ANSI Lumins, 1920 x 1080, 16:9, 40,000:1 contrast ratio, HDMI, VGA, USB, and a 10 feet diagonal, 16:9 Projection Screen.	unit	-	1	1	1	1

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]

- 9. Refer to Page 366, Subsection 6.40.2.(C)(c)(2)(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;

<u>Delete</u> 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,	1	1	1	1	1	1	
Canon, IBM, Epson, or an approved equivalent, and shall be networked to the office computers.							

[Added 11-26-2012]

11. Refer to Pages 504 through 508, SECTION 7.88 - Rodent and Waterbug Pest Control;

<u>Delete</u> Section 7.88, in its entirety; Substitute SECTION 7.88 (Revised), as contained or

<u>Substitute</u> 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	RODENT INFESTATION SURVEY AND MONITORING	L.S.
7.88 AB	RODENT BAIT STATIONS	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;

Delete 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. SUBMITTALS.

- 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 ΔE < 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, 4th paragraph, beginning with the words "The Contractor shall maintain the traveled way . . .;

Delete the 4th 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."

ATTACH TO CONTRACT DOCUMENTS

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

PROJECT ID: SEX00201Z

FOR THE RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS IN VARIOUS LOCATIONS

Together With All Work Incidental Thereto

BOROUGH OF THE BRONX

ADDENDUM NO. 2

DATED: August 5, 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 And Water Main Specifications of the Department of Environmental Protection (dated July 1, 2014), Sewer Design Standards of the Department of Environmental Protection (dated (September 2007) Revised January 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 AND WATER MAIN SPECIFICATIONS

A. NOTICE TO BIDDERS

(1) The Contractor is advised that the duration of the contract is one (1) year from the date of Order to Commence Work.

(2) (A) The Contractor is advised that copies of the Standard Sewer And Water Main Specifications (dated July 1, 2014), Sewer Design Standards (dated (September 2007) Revised January 2009), Specifications For Trunk Main Work (dated July 2014) 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, 3rd 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

- (3) The Contractor is notified that a Notice To Proceed (NTP) date will be issued for work to commence within twenty-one (21) to thirty (30) days of Contract Registration.
- (4) 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.
- (5) The Contractor is notified that Victaulic Style 77 Coupling is no longer acceptable for use in any steel water main work. All reference to Victaulic Style 77 Coupling within the Standard Sewer And Water Main Specifications of the Department of Environmental Protection (dated July 1, 2014), the Water Main Standard Drawings of the Department of Environmental Protection (latest revisions), the Specifications For Trunk Main Work (dated July 2014), and the contract drawings, shall be replaced with Bolted Split-Sleeve Restrained Coupling.
- (6) 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.
- (7) The Contractor is notified that the fuel cost per gallon used in the formula under **Sub-Article 26.2.8** of the Standard Construction Contract for **Extra Work** will be derived from the fuel price index for the United States East Coast published weekly by the United States Energy Information Administration ("USEIA"), and available on its website at http://www.eia.gov/petroleum/gasdiesel/. The USEIA published cost per gallon for the applicable fuel on the East Coast for the week in which the first day of each calendar quarter during the contract term occurs (i.e., January 1st, April 1st, July 1st and September 1st) will be used in the reimbursement formula for all **Extra Work** invoiced that was performed during that calendar quarter. Should the USEIA stop publishing this fuel price index, the

fuel cost per gallon will be determined by reference to a substitute index to be agreed upon by the Contractor and the City.

(8) 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.

- (9) (A) There is <u>no provision for "ENGINEER'S FIELD OFFICE" in this contract, as per New York City Department of Transportation (NYCDOT) Standard Highway Specifications Section 6.40 Engineer's Field Office.</u>
 - (B) There is <u>no</u> item for "MOBILIZATION" in this contract, except for Mobilization for dewatering under Item No. DSS008A. The cost for mobilization shall be deemed included in the prices bid for all contract items of work.
- (10)The Project Sign as per New York City Department of Transportation (NYCDOT) Standard Highway Specifications Subsection 1.06.46 Project Sign will not be required on this contract. However, the Contractor shall be required to provide Temporary Notification Signs in accordance with New York City Department of Transportation (NYCDOT) Standard Highway Specifications Subsection 1.06.46A Temporary Notification Signs.
- (11)The Contractor will be required to prepare and submit "As Built" sewer record drawings to the Engineer for approval, at the completion of <u>each installation</u>. Drawings submitted at the completion of the entire contract after all installations shall not be accepted. Approved "As Built" drawings shall be delivered to the Department of Environmental Protection, Chief of Emergency Construction, 59-17 Junction Boulevard, 6th Floor High Rise, Corona, New York, 11368, Tel. No. (718) 227-1868. The following guideline is provided for the preparation of "As Built" sewer record drawings:
 - (A) Drawings shall be prepared for each individual unrelated location. The drawings shall be submitted in CADD format on CD's along with a plotted Mylar for each location drawing. The drawings on CD's and the plotted Mylar's shall be legal size (8-1/2" x 14"). The Mylar shall be 3-mil in thickness.
 - (B) The "**As Built**" drawings shall conform to Department of Environmental Protection (DEP) Emergency Construction Drawings (ECD). A sample copy of the ECD may be obtained at the above office together with DEP guidelines. These DEP guidelines are summarized below:
 - (1) Drawings shall consist of the same legend and layout of title boxes shown on the sample ECD drawing.
 - (2) Drawings shall consist of a location plan view on one sheet. The location plan view shall be drawn Not-To-Scale.
 - (3) Drawings shall contain a note making reference to the datum used. (Datum used shall be that of the Borough where the sewer is located.)
 - (4) Each plotted Mylar drawing shall contain the signature and stamp of the Contractor's NYS Professional Engineer/Registered Architect.
 - (5) The location plan view shall include:
 - (a) street name and two (2) crossing streets or distance from;
 - (b) north arrow;
 - (c) property lines and widths;
 - (d) curb lines and widths;

- (e) sewers, manholes, catch basins, connections (No horizontal bends allowed on sewer lines);
- (f) sewer sizes, materials (ESVP, RCP, DIP, etc.), and types (New, Existing, Sanitary, Storm, Combined, etc.);
- (g) sewer length (between centerlines of manholes);
- (h) sewer flow direction;
- (i) offsets of sewer lines or extensions from property lines (not curb lines);
- (j) foundations (concrete cradle, stone ballast, piles, etc.);
- (k) manholes types (Precast, Concrete, Brick, A-1, A-2, etc.);
- (I) manhole elevations (both rim and invert);
- (m) manhole stationing along installed sewers;
- (n) catch basins types (Type 1, Type 2, etc.);
- (o) catch basin connections:
- (p) show actual number of manholes and catch basins;
- (g) house connection spurs (stations and locations);
- (r) address of house connections (new connections and reconnections);
- (s) house connection information at curb (station, length, depth and offset from the curb);
- (t) details of non-standard structures or appurtenances constructed;
- (u) location of all existing and installed offset distances from property lines;
- (v) for shotcreted sewers (thickness and reinforcement of shotcreting); and
- (w) all appropriate notes.
- (6) Examples of notes that can be used are as follows:
 - (a) Unless otherwise noted, all house connections are 6" ESVP;
 - (b) Unless otherwise noted, all catch basins are Standard Type 1;
 - (c) Unless otherwise noted, all new curb connections are at a depth of approximately 8-feet at the curb and are 2-feet inside the curb line;
 - (d) Unless otherwise noted, all built manholes are brick;
 - (e) Unless otherwise noted, all catch basin connections are 12" DIP on crushed stone;
 - (f) unless otherwise noted, all ESVP sewers are installed on 6" concrete cradle;
 - (g) Pipe lengths are measured from inside face of manhole to inside face of manhole.
- (C) The cost of preparing and submitting "As Built" approved drawings shall be deemed included in the prices bid for all scheduled bid items in the contract. No separate or additional payment will be made for this work.

B. AMENDMENTS TO THE STANDARD HIGHWAY SPECIFICATIONS

(NO TEXT)

C. AMENDMENTS TO THE STANDARD SEWER AND WATER MAIN SPECIFICATIONS

(1) Refer to Contract Book, Volume 2 of 3, Standard Construction Contract, Article 15 - Liquidated Damages:

Delete this article in its entirety:

Substitute the following new Article 15:

ARTICLE 15 - LIQUIDATED DAMAGES

15.1 In the event the Contractor fails to complete the Initial Services, as set forth in **Division VIII**, **Section DSS-4 - Issuance of Task Orders**, within the Initial Response Time, as set forth in Paragraph 15.2 below, the Contractor shall pay to the City the sum(s) set forth below, for each and every specified period of delay in completing the Initial Services. Due to the difficulty in accurately ascertaining the loss the City will suffer by reason of delay in completion of the Initial Services hereunder, the sum(s) set forth below are hereby fixed and agreed to as the liquidated damages that the City will suffer by reason of such delay, and not as a penalty. Liquidated damages will be assessed on a cumulative basis. This article shall apply to the Contractor if it 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.

	Delay Beyond Initial Response Time	Amount of Liquidated Damages
(a)	First one (1) hour period after Initial Response Time	\$1,000
(b)	First six (6) hour period after the end of the time frame set forth in (a)	\$2,000
(c)	Second and all subsequent six (6) hour periods after the end of the time frame set forth in (b)	\$3,000

- 15.2 The Initial Response Time shall mean the period of time within which the Contractor must complete the Initial Services set forth in **Division VIII, Section DSS-4 Issuance of Task Orders**. The Initial Response Time shall be specified in the Notice provided to the Contractor in accordance with such section. The Initial Response Time shall commence at the time the Notice is transmitted to the Contractor by fax.
- 15.3 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.
- 15.4 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.
- (2) Refer to Subsection 10.15 Notice To Utility Companies, Etc., To Remove Structures Occupying Place Of Sewers, Water Mains Or Appurtenances, Page I-11:

 Add the following to Subsection 10.15:
 - (1) CONSOLIDATED EDISON COMPANY OF NEW YORK

There are CON EDISON facilities in the areas of reconstruction. The existing systems are comprised of underground ducts, service boxes, manholes, street lighting, utility poles, underground transformer vaults, etc. The Contractor shall notify CON EDISON within the initial response time specified at time of notification of the task order at each ordered location by contacting Mr. Donald Soldiviero (The Bronx), at (212) 460-4834.

(2) EMPIRE CITY SUBWAY

There are EMPIRE CITY SUBWAY facilities in the areas of reconstruction. The Contractor shall notify EMPIRE CITY SUBWAY within the initial response time specified at time of notification of the task order at each ordered location by contacting Mr. Al Petrizzi, Governmental Liaison, 140 West Street, 18th Floor, New York, NY 10007, (The Bronx) at (212) 941-8407.

(3) CABLEVISION

There are CABLEVISION facilities in the areas of reconstruction. The Contractor shall notify CABLEVISION within the initial response time specified at time of notification of the task order at each ordered location by contacting Mr. Jeffrey Stigers or Mr. Ed Lepinsky (The Bronx) at (718) 861-7361.

(3) Refer to Subsection 10.21 - Contractor To Notify City Departments, Page I-13: Add the following to Subsection 10.21:

(1) N.Y.C.D.E.P., BUREAU OF WATER AND SEWERS OPERATIONS

The Contractor shall notify Mr. 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, within the initial response time specified at time of notification of the task order at each ordered location.

(2) NEW YORK CITY FIRE DEPARTMENT

The Contractor shall notify the Bureau of Fire Communications within the initial response time specified at time of notification of the task order at each ordered location by contacting Mr. Nick Varone at (212) 624-4194 (The Bronx).

(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 Boulevard, Long Island City, N.Y. 11101 at (718) 786-3550, within the initial response time specified at time of notification of the task order at each ordered location.

(4) N.Y.C. DEPARTMENT OF PARKS AND RECREATION

The Contractor shall notify the Parks Department within the initial response time specified at time of notification of the task order at each ordered location by contacting Mr. Rick Zeilder, Director of Forestry (The Bronx) at (718) 430-1868.

(5) N.Y.C. TRANSIT AUTHORITY

The Contractor shall notify the Transit Authority within the initial response time specified at time of notification of the task order by contacting Mr. John Malvasio, P.E., Director of Maintenance-Of-Way, 30 Livingston Street, Room 8044D, Brooklyn, New York, 11201, at (718) 694-1358 if any T.A. facility is within fifty (50) feet of the reconstruction work.

(4) Refer to Subsection 10.30 - Contractor To Provide For Traffic, Page I-15: Add the following to Subsection 10.30:

(A) TRAFFIC STIPULATIONS:

The Contractor shall obtain all permits and traffic requirements from the Office of Construction Mitigation and Coordination (OCMC) within forty-eight (48) hours of the start of work at any ordered

location. The Contractors shall contact Mr. Joseph Noto, NYC Department of Transportation, Division of Engineering Control, 55 Water Street, 7th Floor, New York, NY 10041, at (212) 839-9621.

(5) Refer to Subsection 10.32 - Photographs, Page I-16:

Delete paragraphs number (7), (8) and (9) in their entirety:

Substitute the following new paragraphs:

- (7) The cost of the Photographer and for the taking and providing of all required photographs, negatives, etc., shall be deemed included in the unit price bid for Item No. 10.32A - PHOTOGRAPHS.
- (8) No separate payment will be made for the expense of furnishing the required binders; the cost thereof shall be deemed included in the unit price bid for Item No. 10.32A - PHOTOGRAPHS.
- (9) The Engineer reserves the right to reject any and all views that are not reasonably clear and definitive. No payment will be made for any rejected photographs, payment under Item No. 10.32A -PHOTOGRAPHS, shall be made only for those photographs that are accepted by the Engineer.

(6) Refer to Section 40.06 - Backfilling, Page IV-18:

Delete from this section, **Subsection 40.06.2(D) - CLEAN FILL** in its entirety: Substitute the following new Subsection 40.06.2(D):

(D) CLEAN FILL

- (1) Clean fill material for this contract shall be select granular fill ordered in writing by the Engineer where there is a deficiency of acceptable backfill. Select granular fill material shall be required in order to fill voids in the trenches and excavations, (For Sewers Trenches - from a point not less than two (2) feet above the top of sewers to the underside of the pavement as it existed at the start of the work; and, For Water Main Trenches - 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 as it existed at the start of the work), caused by the removal of boulders, unsuitable backfill materials, existing sewers and associated sewer structures, and any other underground facilities or structures, and shall be approved clean earth or sand of low silt and clay content (less than eight (8) percent passing No. 200 sieve), free from bricks, blocks, excavated pavement materials and debris, stumps, roots and other organic matter, as well as ashes, oil and other perishable or foreign matter and shall not contain particles larger than one quarter (1/4) inch in diameter.
- (2) This backfill shall be exclusive of the normal backfill required in the trenches and excavations for proposed sewers and associated sewer structures for which payment is included therein. Payment shall be made in accordance with **Subsection 40.06.6**.

(7) Refer to Section 40.06 - Backfilling, Page IV-18:

Delete from this section, paragraphs (B) and (C) of Subsection 40.06.6 - Deficiency Of Backfill Material in their entirety:

Substitute the following new paragraphs:

- (B) For providing acceptable select granular fill (whether natural or processed) to satisfy the requirements of Subsection 40.06.2(D) to fill voids left by the removal of ledge rock payment shall be made under Item No. 70.61RE - ROCK EXCAVATION. The Contractor's attention is directed to Section 70.61 - Rock Excavation of the specifications, and that all references to clean fill therein, shall mean select granular fill.
- (C) For providing acceptable select granular fill (whether natural or processed) to satisfy the requirements of Subsection 40.06.2(D) payment shall be made under Item No. 73.41AG -ADDITIONAL SELECT GRANULAR BACKFILL. The Contractor's attention is directed to Section 73.41 - Additional Select Granular Backfill of the specifications, with the addition that the

conditions for use as specified in **Subsection 73.41.1** shall be expanded to include those specified in **Subsection 40.06.2(D)** as amended hereinbefore.

(8) <u>Refer</u> to Section 70.51 - Excavation Of Boulders In Open Cut, Page VII-37: <u>Add</u> the following new Subsection 70.51.6:

70.51.6 EXISTING SEWER ENCASED IN CONCRETE

The Contractor is advised that at certain locations, the existing sewer to be removed may be encased in concrete. Where this condition is encountered, the Contractor shall remove the concrete encasement from the site. The quantity, in cubic yards, to be measured for payment shall be determined by taking the total volume of the encased sewer including the cradle portion less the volume of the sewer pipe. Payment shall be made at the unit price bid for Item No. 70.51EO - EXCAVATION OF BOULDERS IN OPEN CUT and shall cover the cost of all labor, materials, plant, equipment and insurance necessary to remove the concrete encasement, together with all work incidental thereto, as directed by the Engineer. The cost of any additional backfilling required to be done in connection with this work shall be deemed included in the unit price bid for Item No. 70.51EO - EXCAVATION OF BOULDERS IN OPEN CUT.

- (9) <u>Refer</u> to Subsection 71.41.4 Specific Pavement Restoration Provisions, Page VII-67: <u>Add</u> the following to Subsection 71.41.4:
 - (E) Specific Pavement Restoration Provisions:

Upon completion, at each and every ordered location, of the reconstructed collapsed or otherwise defective storm, sanitary or combined vitrified clay pipe sewers and the backfill and compaction of all sewer and water main trenches, the Contractor shall permanently restore all roadways, sidewalks and curbs within the ordered limits of the trench width and cutbacks as follows:

- (1) Roadway Restoration:
 - (a) The permanent roadway restoration over the **trench widths and cutbacks only** shall consist of a top course of one and one-half (1-1/2) inches of asphaltic concrete wearing course on a base course of a minimum of four and one-half (4-1/2) inches of binder mixture, or a top course of one and one-half (1-1/2) inches of asphaltic concrete wearing course on a minimum of one and one-half (1-1/2) inches of binder mixture on a base course of a minimum of six (6) inches of high-early strength concrete, to match the existing pavement as directed by the Engineer.
 - (b) Before the top course is installed, an additional width of asphalt beyond the edge of new base course shall be saw-cut and removed from all edges of trenches to a depth to accommodate the specified top course and the entire area restored. This additional removal shall be in accordance with paragraph (c).
 - (c) Pavement excavation along with saw cutting of pavements for sewer and water main trenches shall be in accordance with **Section 71.21 Pavement Excavation** of the Standard Sewer And Water Main Specifications.
 - (d) At locations requiring the installation of a high-early strength concrete base course, a reflective cracking membrane shall be installed over joints prior to restoration. Additionally, appropriate pavement keys as described below shall be used as required by the Engineer.
 - (e) Pavement keys **Type B-1** shall be used to insure a desired four (4) inch curb reveal (two and one-half (2-1/2) inch absolute minimum). Pavement key **Type A** shall be used in all intersections. Both keys are to be per Bureau of Highways Operations Specifications and Standard Details of Construction.

(f) The cost of all labor, materials, equipment, samples and tests required and necessary to permanently restore the roadway over the trench width and cutbacks only shall be deemed included in the prices bid for Item No. 1.A50.31PC08 - 8" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS), Item No. 1.B50,31PCO8 - 8" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET) (FIXED UNIT PRICE TO BE 70% OF UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.C50.31PC10 - 10" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$5.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.D50.31PC10 - 10" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$5.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.E50.31PC10 - 10" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE 90% OF UNIT PRICE BID FOR ITEM NO. 1.D50.31PC10), Item No. 1.F50.31PC12 - 12" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$10.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.G50,31PC12 - 12" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$10.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.H50.31PC12 - 12" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$10.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.I50.31PC15 - 15" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$15.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.J50.31PC15 - 15" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$15.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.K50.31PC15 - 15" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$15.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.L50.31PC18 - 18" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$25.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.M50.31PC18 - 18" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$20.00 PLUS UNIT PRICE BID FOR ITEM NO. 1,B50.31PC08), Item No. 1.N50.31PC18 - 18" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$20.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10). Item No. 1.050.21P3C024D - 24" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$35,00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.P50.21P3C024D - 24" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$30.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.Q50.21P3C024D - 24" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$30.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.R50.21P3C030D - 30" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$40.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.S50.21P3C030D - 30" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$35.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.T50.21P3C030D - 30" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$35.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.U50.21P3C036D - 36" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$45.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.V50.21P3C036D - 36" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$40.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.W50.21P3C036D - 36" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$40.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No.

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1.X50.21P3C042D - 42" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$50.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.Y50.21P3C042D - 42" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$45.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.Z50.21P3C042D - 42" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$45.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.AA50.21P3C048D - 48" R.C.P. CLASS III SEWER. ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$55.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.BB50.21P3C048D - 48" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$50.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.CC50.21P3C048D - 48" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$50.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 60.12D20 - LAYING 20-INCH DUCTILE IRON PIPE AND FITTINGS, Item No. 60.12D12 - LAYING 12-INCH DUCTILE IRON PIPE AND FITTINGS, Item No. 60.12D08 - LAYING 8-INCH DUCTILE IRON PIPE AND FITTINGS, and Item No. 60.12D06 -LAYING 6-INCH DUCTILE IRON PIPE AND FITTINGS. No separate or additional payment will be made for any one and one-half (1-1/2) inches of asphaltic concrete wearing course, binder mixture, high-early strength concrete, reflective cracking member, tack coating, full and partial depth saw cutting, excavation of pavements, stripping or milling of existing pavements, etc. required to permanently restore the roadway over the trench width and cutbacks, cost shall be deemed included in the prices bid for the items specified herein paragraph (f).

(2) Sidewalk And Curb Restoration:

- (a) The permanent sidewalk restoration over the **trench width and cutbacks only** shall consist of 4" concrete sidewalk (unpigmented) outside driveway and 7" concrete sidewalk (unpigmented) inside driveway and pedestrian ramps, as directed by the Engineer. All sidewalks shall be restored in full flag units.
- (b) Since all sidewalks shall be restored in full flag units, the cutbacks for sidewalk restoration shall be defined as the distances beyond the edges of the trenches that require removal in order to get to an adjacent undisturbed full flag unit. For the purpose of this contract sidewalk shall be saw-cut, removed and restored in full flag units up to a maximum overall width of ten (10) feet (two (2) full flag units).
- (c) The permanent restoration of curbs over the **trench width only** shall consist of concrete curb, straight steel faced concrete curb, depressed steel faced concrete curb and corner steel faced concrete curb, as directed by the Engineer.
- (d) The cost of all labor, materials, equipment, samples and tests required and necessary to permanently restore the sidewalk and curb over the trench width and cutbacks only shall be deemed included in the prices bid for Item No. 1.A50.31PC08 - 8" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS), Item No. 1.B50.31PCO8 - 8" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET) (FIXED UNIT PRICE TO BE 70% OF UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.C50.31PC10 - 10" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$5.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.D50.31PC10 - 10" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$5.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08). Item No. 1.E50.31PC10 - 10" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE 90% OF UNIT PRICE BID FOR ITEM NO. 1.D50.31PC10), Item No. 1.F50.31PC12 - 12" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$10.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.G50.31PC12 - 12" E.S.V.P. SEWER, ON

CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$10.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.H50.31PC12 - 12" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$10.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.I50.31PC15 - 15" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$15.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.J50.31PC15 - 15" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$15.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.K50.31PC15 - 15" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$15.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.L50.31PC18 - 18" E.S.V.P. SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$25.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.M50.31PC18 - 18" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$20.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.N50.31PC18 - 18" E.S.V.P. SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$20,00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.050.21P3C024D - 24" R.C.P. CLASS III SEWER. ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$35.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.P50.21P3C024D - 24" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$30.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.Q50.21P3C024D - 24" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$30.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.R50.21P3C030D - 30" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$40.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.S50.21P3C030D - 30" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$35.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.T50.21P3C030D - 30" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$35.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.U50.21P3C036D - 36" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$45.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.V50.21P3C036D - 36" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$40.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.W50.21P3C036D - 36" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$40.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.X50,21P3C042D - 42" R.C.P. CLASS III SEWER. ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$50.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.Y50.21P3C042D - 42" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$45.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.Z50.21P3C042D - 42" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$45.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 1.AA50.21P3C048D - 48" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (MINIMUM 15 FEET LENGTHS) (FIXED UNIT PRICE TO BE \$55.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.A50.31PC08), Item No. 1.BB50.21P3C048D - 48" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND THE MINIMUM 15 FEET TO A MAXIMUM OF 100 FEET) (FIXED UNIT PRICE TO BE \$50.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.B50.31PC08), Item No. 1.CC50.21P3C048D - 48" R.C.P. CLASS III SEWER, ON CONCRETE CRADLE (ADDITIONAL LENGTH BEYOND 100 FEET) (FIXED UNIT PRICE TO BE \$50.00 PLUS UNIT PRICE BID FOR ITEM NO. 1.E50.31PC10), Item No. 60.12D20 - LAYING 20-INCH DUCTILE IRON PIPE AND

FITTINGS, Item No. 60.12D12 - LAYING 12-INCH DUCTILE IRON PIPE AND FITTINGS, Item No. 60.12D08 - LAYING 8-INCH DUCTILE IRON PIPE AND FITTINGS, and Item No. 60.12D06 - LAYING 6-INCH DUCTILE IRON PIPE AND FITTINGS. No separate or additional payment will be made for any concrete sidewalk including 6" foundation material, straight and depressed concrete and steel faced concrete curb, corner steel faced concrete curb, full and partial depth saw cutting, excavation of sidewalks and curbs, etc. required to permanently restore the sidewalk and curb over the trench width and cutbacks, cost shall be deemed included in the prices bid for the items specified herein paragraph (d).

- (3) The cost for all saw cutting of sewer and water trenches and cutbacks, excavation of pavements within limits of sewer and water trenches and cutbacks, tack coating, removal of pavement markings and replacement with thermoplastic reflectorized pavement markings (crosswalks and lane dividers), placement and eradication of temporary roadway markings, stripping or milling of pavement keys and adjustment of city owned castings shall be deemed included in the prices bid for the items specified in paragraph (1)(f) above and paragraph (2)(d) above of this section. No separate or additional payment will be made for this work.
- (4) All Sidewalks; Driveways; Curbs; Corner Curbs; Pedestrian Ramps; and Roadway base courses, top courses and wearing courses shall be installed in conformance with the latest Department of Transportation Specifications and Standard Details, except as amended herein.
- (5) The Contractor shall exercise caution during the construction operation, so as to prevent damage and/or disturbance to sidewalks, curbs and roadways outside the ordered reconstruction limits of trench width and cutbacks.
- (6) All disturbed grass sidewalk areas over the trench width and cutbacks only shall be restored in conformance with the **New York City Department of Transportation (NYCDOT) Standard Highway Specifications Section 4.19 Sodding**. The cost of all labor, materials, equipment, samples and tests required and necessary to install sod in grass sidewalk areas over the trench width and cutbacks shall be deemed included in the prices bid for the items specified in paragraph (1)(f) above and paragraph (2)(d) above of this section. No separate or additional payment will be made for this work.
- (7) Should granite block, asphalt block or brick pavement be encountered over the trench width and cutbacks only, five (5) inches of binder mixture shall be substituted for the blocks and bricks removed. The binder mixture shall be installed on a base course of a minimum of six (6) inch of high-early strength concrete and topped with a top course of one and one-half (1-1/2) inches of asphaltic concrete wearing course on a minimum of one and one-half (1-1/2) inches of binder mixture to match the existing pavement as directed by the Engineer. All granite or brick removed shall be delivered to the designated City Yard. The cost of all labor, materials, equipment, samples and tests required and necessary to install new pavement as described herein to replace granite block, asphalt block or brick pavement over the trench width and cutbacks shall be deemed included in the prices bid for the items specified in paragraph (1)(f) above and paragraph (2)(d) above of this section. No separate or additional payment will be made for this work.
- (8) If additional roadway restoration is required and ordered in writing by the Engineer outside the ordered limits of trench widths and cutbacks the cost of all labor, materials, equipment, samples and tests required and necessary to perform this additional roadway restoration work shall be deemed included in the prices bid for Item No. 4.02 CA BINDER MIXTURE, Item No. 4.02 CB ASPHALTIC CONCRETE MIXTURE, and Item No. 4.04 H CONCRETE BASE FOR PAVEMENT, VARIABLE THICKNESS FOR TRENCH RESTORATION, (HIGH-EARLY STRENGTH). Included in the prices bid for these items shall be the cost for all saw cutting, excavation of pavements, tack coating, removal of pavement markings and replacement with thermoplastic reflectorized pavement markings (crosswalks and lane dividers), placement and eradication of temporary roadway markings, stripping or milling of pavement keys and adjustment of city owned castings. No separate or additional payment will be made for this work.
- (9) If additional sidewalk restoration is required and ordered in writing by the Engineer outside the ordered limits of trench widths and cutbacks the cost of all labor, materials, equipment, samples and

tests required and necessary to perform this additional sidewalk restoration shall be deemed included in the prices bid for Item No. 4.13 AAS - 4" CONCRETE SIDEWALK (UNPIGMENTED), and Item No. 4.13 BAS - 7" CONCRETE SIDEWALK (UNPIGMENTED). Included in the prices bid for these items shall be the cost for all saw cutting, excavation of sidewalks, 6" foundation material, etc. No separate or additional payment will be made for this work.

(10) Refer to Page VII-104:

Add the following new DIVISION VIII:

DIVISION VIII

DETAILED SPECIFICATION FOR RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS

DSS-1 INTENT

It is intent of this contract, at all locations and areas ordered under this contract as determined by the New York City Department of Environmental Protection and as directed by the Engineer to reconstruct sections of existing collapsed or otherwise defective Storm, Sanitary or Combined Sewers in roadways, sidewalks, malls, medians, pedestrianways, easements or other non-roadway areas including the reconnection of all existing house sewers, basin connections, and the construction of new manholes as required.

The sections of existing collapsed or otherwise defective Storm, Sanitary or Combined Sewers shall be removed and reconstructed with Extra Strength Vitrified Clay Pipe on Concrete Cradle and/or Precast Reinforced Concrete Pipe on Concrete Cradle, complete, as shown, specified or required.

The Contractor, when so ordered by the Engineer, will be required to substitute the use of Ductile Iron Pipe on Stone Bedding in lieu of Extra-Strength Vitrified Clay Pipe on Concrete Cradle for the various sized pipes indicated in the Bid Schedule. The Ductile Iron Pipe shall meet all of the requirements, standards and specifications of the Department of Environmental Protection. The payment for Ductile Iron Pipe on Stone Bedding will be made under the applicable unit prices bid for the various sizes of Extra-Strength Vitrified Clay Pipe on Concrete Cradle. The substitution of 15-inch Extra-Strength Vitrified Clay Pipe will be made with 16-inch Ductile Iron Pipe.

At each ordered location the length of existing collapsed or otherwise defective Storm, Sanitary or Combined Pipe Sewer to be reconstructed will vary; however, the length will generally not be less than fifteen (15) feet per trench opening. The actual length at each ordered location and the area of reconstruction will be determined by the New York City Department of Environmental Protection and as directed by the Engineer. For each reconstruction less than a manhole length, the trench opening shall be at least one and one-half (1-1/2) feet longer at the ends of the reconstruction to permit proper jointing.

DSS-2 STANDARD SEWER AND WATER MAIN SPECIFICATION

Unless otherwise specified, all work and materials shall conform to the applicable sections of the Standard Sewer And Water Main Specifications of the Department of Environmental Protection (dated July 1, 2014), Sewer Design Standards of the Department of Environmental Protection (dated (September 2007) Revised January 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.

DSS-3 DEFINITIONS

Whenever the following pronoun appears in this contract, the meaning and intent shall be interpreted as follows unless a different meaning is clear from the context: "Engineer" shall mean the Director, Bureau of Water and Sewer Operations, Department of Environmental Protection, or a designated representative to act as such in relation to this contract.

DSS-4 ISSUANCE OF TASK ORDERS

(A) General: The Contractor shall, for the duration of this contract, provide services as directed by the Engineer for the reconstruction of existing sewers or portions thereof, in accordance with the terms and conditions set forth herein. The services to be provided by the Contractor shall include both Initial Services and Reconstruction Services, as described below.

- (B) Transmission of Notices and Task Orders:
 - (1) The Engineer shall advise the Contractor of the need for services hereunder through Notices, as set forth in **Paragraph (C)** below, and Task Orders, as set forth in **Paragraph (D)** below. The Engineer shall send Notices and Task Orders to the Contractor by e-mail, fax, or by telephone promptly confirmed by e-mail and/or fax.
 - (2) The Contractor shall, for the duration of this contract, provide and maintain at its place of business a dedicated telephone line, a dedicated e-mail address and a dedicated fax line for the receipt of Notices and Task Orders hereunder. The e-mail and fax machine shall be in operation twenty-four (24) hours per day, seven (7) days per week, for the duration of this contract. The Contractor shall not be entitled to any compensation for the provision of such equipment. All expenses for the required telephone, e-mail and fax lines shall be deemed included in the Contractor's overhead.
- (C) Initial Services to be Provided by Contractor:
 - (1) Notice: When the need for services arises, the Engineer shall issue a Notice to the Contractor. The Notice shall specify the following: (a) the location where the Contractor must provide Initial Services, and (b) the Initial Response Time.
 - (2) Initial Services: The Contractors shall complete the Initial Services set forth below within the Initial Response Time specified by the Engineer in the Notice.
 - (a) Make the area safe for residents in the area of the ordered work and for pedestrian and vehicular traffic. Such work shall include, but not be limited to, the placement of adequate lighted barricades, plates, signs, as well as any other work required by the Engineer in order to make the area safe.
 - (b) As directed by the Engineer the Contractor shall:
 - (i) Commence excavation, and/or
 - (ii) Provide and operate such pumping equipment to maintain sewage flow
 - (3) Initial Response Time: Initial Response Time shall mean the period of time within which the Contractor must complete the Initial Services, set forth in Paragraph (2) above. The Initial Response Time shall be specified in the Notice set forth in Paragraph (1) above. The Initial Response Time shall commence at the time the Notice is transmitted to the Contractor by fax. The Contractor is advised that the Initial Response Time shall be determined by the Department of Environmental Protection, in its sole discretion and in accordance with the degree of emergency presented. The Contractor is advised that the Initial Response Time will range from a minimum of within six (6) hours of notification to a maximum of within twenty-four (24) hours of notification.
- (D) Task Order: When the need for services arises, the Engineer shall issue a Task Order to the Contractor. The Task Order shall specify the items set forth below:
 - (1) Description and Location of the Project
 - (2) Length of Reconstruction Work
 - (3) Reconstruction Services to be performed
 - (4) Reconstruction Time Time for commencement and completion of work

(E) Reconstruction Services: The Engineer shall specify the services necessary and required for reconstruction. The Contractor shall perform such reconstruction services within the reconstruction time, as set forth below.

(F) Reconstruction Time: The Reconstruction Time shall mean the period of time within which the Contractor must complete the required Reconstruction Services. The Reconstruction Time shall be specified in the Task Order. The Contractor is advised that the Reconstruction Time shall be determined by the Department of Environmental Protection, in its sole discretion and in accordance with the degree of emergency presented. The Contractor is advised that the Reconstruction Time will range from a minimum of twelve (12) hours to a maximum of forty-eight (48) hours.

Time is of the essence as the public health and safety are involved. Accordingly, the Contractor shall perform the work at each and every ordered location promptly and diligently, using such means and methods of construction as will assure its expeditious and satisfactory completion without delay.

- (G) Personnel: The Contractor shall provide adequate personnel and equipment at each ordered location. Prior to the start of work the Engineer shall approve such personnel and equipment. The Engineer reserves the right to determine the personnel and equipment required to adequately and properly carry out the intent of this contract and to order personnel and equipment in excess of that normally required for the work to be done, off the job site. No payment will be made for such excess personnel and equipment. The Contractor must be prepared to provide adequate personnel and equipment to perform the services specified in **Paragraphs (C) and (E)** above at up to six (6) concurrent reconstruction sites continuously and uninterrupted to completion.
- (H) No Right To Refuse: The Contractor shall have no right to reject or decline to perform any Task Order issued under this contract. However, if the Contractor is unable to begin the work of reconstruction for any reason, the Contractor shall so notify the Engineer by telephone as soon as possible, such notifications to be followed by an explanation in writing as to the reasons why the Contractor is unable to begin the required work.
- (I) Supplementary Task Orders: The Contractor shall perform only the work specifically ordered by the Engineer in the written Task Order. The Department of Environmental Protection reserves the right to order additional work through Supplementary Task Orders issued by the Engineer, as the work on the original Task Order progresses.

DSS-5 WORK INCLUDED

The Contractor shall at each and every ordered location, furnish all labor, equipment, materials and supervision, and shall perform all the work called for within each item ordered including any incidental work required for a complete and satisfactory job.

All labor, equipment and materials necessary for the proper execution and completion of each item of work called for are to be furnished and delivered by and at the cost and expense of the Contractor, and the work executed and completed in every detail whether specifically mentioned or not.

The Contractor must be prepared to do this work without prepared plans.

At each ordered location the Contractor shall remove and clean the sewer of any debris up to and including manholes on both sides of the section of sewer being reconstructed during and after the completion of the work.

DSS-6 EXISTING CONDITIONS

The Contractor is advised that the Engineer will furnish to the Contractor, where available, plans of the existing collapsed or otherwise defective Storm, Sanitary or Combined Sewers.

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The Contractor is further advised that since the reconstructed sewer is to be within the same trench where the existing collapsed or otherwise defective pipe sewer was constructed, it is assumed that the original trench was backfilled with acceptable materials and that no exceptionally large boulders, or other obstructions would hinder or delay the excavation work. If boulders, rip-rap and other large objects as herein before specified in excess of one-half (1/2) cubic yard in volume are encountered during the excavation down to the top of the existing collapsed or otherwise defective pipe sewer, payment for the removal of same will be paid for at the unit price bid for Item No. 70.51EO - EXCAVATION OF BOULDERS IN OPEN CUT. The entire boulder shall be measured where practicable. The resultant void shall be backfilled and paid for under Item No. 73.41AG - ADDITIONAL SELECT GRANULAR BACKFILL.

The average depth to be excavated to subgrade for the reconstructed sewer is eight (8) to nine (9) feet, varying from a minimum depth of four (4) feet to a maximum depth of twelve (12) feet. Deeper sewer excavations to a maximum depth of twenty (20) feet, shall be paid for under Item No.73.31AE2 - ADDITIONAL EARTH EXCAVATION INCLUDING TEST PITS (OVER 12' TO 16' DEPTH) and Item No. 73.31AE3 - ADDITIONAL EARTH EXCAVATION INCLUDING TEST PITS (OVER 16' TO 20' DEPTH).

DSS-7 PAYMENT FOR WORK PERFORMED

The Contractor shall include in the unit price bid for each item of work, the cost of all labor, equipment, materials, supervision, overhead, profit, insurance, and all other services required to execute and complete each item of work.

Payment will be made at the unit price bid for the various items of work ordered in writing by the Engineer and actually performed and incorporated into the work. The Contractor is advised that the payment for each increment of length of sewer to be replaced will be made at the unit prices bid for each increment of length of sewer to be replaced according to the following schedule:

- (a) Minimum fifteen (15) linear feet.
- (b) Additional length beyond the minimum fifteen (15) linear feet to a maximum of one hundred (100) linear feet. Fixed unit price as listed in the contract document bid schedule of prices.
- (c) Additional length beyond one hundred (100) linear feet. Fixed unit price as listed in the contract document bid schedule of prices.

DSS-8 PROCEDURAL ORDERS TO CONTRACTOR

The Contractor shall either give personal attention to the work or employ and retain a competent superintendent or foreman at each and every ordered location while the work is in progress. Instructions given to the superintendent or foreman shall be considered as having been given to the Contractor.

DSS-9 CITY TO NOTIFY CITY DEPARTMENT

At the time the Engineer orders the Contractor to proceed with the work, the Department of Environmental Protection shall notify and transmit a copy of the order to start work to all public and private agencies concerned. These notifications shall be in addition to the Contractors required notifications of public and private agencies as specified herein.

At the start of the work, the Contractor will be furnished with a temporary street opening permit by the Department of Environmental Protection. However, the Contractor shall obtain the prescribed permits from the Department of Transportation within forty-eight (48) hours of beginning the work.

D\$S-10 MEASUREMENTS

All measurements shall be made under the supervision of the Engineer. The Contractor's representative shall notify the Engineer when measurements are to be made so the Engineer may be

present at that time, the Contractor shall record all measurements and give the Engineer duplicate copies of these measurements.

DSS-11 WORK ORDERED BY THE ENGINEER AND NOT OTHERWISE COVERED IN THE DETAILED SPECIFICATION.

During the course of the work being performed at any ordered location, it may be necessary for the Engineer to order, in writing, extra work not otherwise covered in the task order and in the Detailed Specifications. Payment for extra work for which there are classified bid item(s) shall be made under the unit price bid for the respective bid item(s). Payment for extra work for which there are no specific classified bid item(s) shall be made in accordance with **Articles 25 and 26** of the Contract.

DSS-12 INSPECTION OF MATERIALS FURNISHED

In lieu of the procedure for the inspection of materials to be furnished, as called for in **DIVISION III** of the Standard Sewer And Water Main Specifications, the City will accept certificates from the Contractor's materials suppliers stating that the materials furnished and incorporated in the work at each ordered location, meets the requirement of the appropriate sections of the specifications. Such material certificates shall be provided to the Engineer by the completion date specified in the task order for each ordered location.

DSS-13 DISPOSAL OF WATER FROM TRENCHES (DEWATERING)

- (1) DESCRIPTION The Contractor will be required, at all ordered locations where groundwater is present in the trench and as ordered by the Engineer, to install, maintain and operate a dewatering system to adequately lower the groundwater table to a point below the trench subgrade.
- (2) METHODS Upon obtaining a task order to commence work at any location where dewatering is known to be required, or immediately upon discovery at any location that dewatering is required, the Contractor shall prepare working drawings and designs showing all facets of the proposed dewatering system including but not limited to; soil type, permeability, anticipated discharge amount, wellpoint spacing, depth of well points, size of header pipe, location of discharge point, etc. All of this information shall be submitted to the Engineer for review and approval. Wherever there is insufficient data available to provide accurate information on the soil properties required above, the Contractor shall be permitted to make assumptions and/or educated estimates provided that it is so stated in the submissions.
- (3) CRITERIA The parameters or need for the installation of a dewatering system shall be determined by the Engineer. The location of the water table shall be a minimum of one (1) foot above subgrade and the maximum location shall be seventeen (17) feet above subgrade prior to the use of any wellpoints. These minimum and maximum heights of water table are based upon a trench depth not exceeding eighteen (18) feet. Lowering of the water level more than seventeen (17) feet is beyond the scope of this item. The use of sump pumps or open trench pumping shall not be considered for payment.
- (4) PERMITS Whenever the Contractor is required to install a temporary dewatering system to lower the groundwater level within the Boroughs of Brooklyn or Queens it will be necessary to obtain a New York State Department of Environmental Conservation (NYSDEC) Long Island Well Permit. Since all work performed under the scope of this project is of an emergency nature the Dewatering Contractor will be required to notify NYSDEC as expeditiously as possible to inform them of the impending work. The Contractor will be required to submit all data and water quality test results to NYSDEC upon their request.
- (5) MEASUREMENT AND PRICE TO COVER There shall be six (6) items under which payment will be made for dewatering. These are as follows:

(a) Mobilization (Dewatering) - The quantity of mobilization to be measured for payment shall be a lump sum measurement for each ordered location mobilization for dewatering performed, complete, as specified or required. The contract price for Item No. DSS008A -MOBILIZATION (DEWATERING) shall be the lump sum price bid for each ordered location mobilization when dewatering is required as specified herein, and shall cover the cost of all labor, materials, equipment, setting up of plant, samples, necessary design computations and drawings, tests and permits required and necessary to mobilize for dewatering at each ordered location, including the furnishing and installing of all other items necessary to complete this work and do all work incidental thereto; all in accordance with the specifications, and as directed by the Engineer.

- (b) Header and Discharge Pipe Installation The quantity of header and discharge pipe to be measured for payment shall be the number of linear feet of header and discharge pipe incorporated in the work, complete, as shown, specified or required. The contract price for Item No. DSS008B HEADER AND DISCHARGE PIPE INSTALLATION shall be the unit price bid per linear foot for header and discharge pipe installed and utilized at any ordered location and shall cover the cost of all labor, materials, equipment and tests required and necessary to install the header and discharge pipe at each ordered location, including the furnishing and installing of all other items necessary to complete this work and do all work incidental thereto; all in accordance with the specifications, and as directed by the Engineer.
- (c) Header and Discharge Pipe Rental The quantity of header and discharge pipe rental to be measured for payment shall be the number of sections per day of header and discharge pipe incorporated into the work, complete, as shown, specified or required. A section of header and discharge pipe shall be measured as a ten (10) foot length or portion thereof. The contract price for Item No. DSS008C HEADER AND DISCHARGE PIPE RENTAL shall be the unit price bid per section per day for header and discharge pipe installed and utilized at any ordered location and shall cover all costs required and necessary for rental of header and discharge pipe. Payment under this item will commence upon completion of installation and start of operation of the dewatering system. Payment will cease upon completion of the need for dewatering as approved or ordered by the Engineer.
- (d) Wellpoint Installation The quantity of wellpoint installation to be measured for payment shall be the number of wellpoints incorporated into the work, complete, as shown, specified or required. The contract price for Item No. DSS008D - WELLPOINT INSTALLATION shall be the unit price bid per each for wellpoints installed and utilized at any ordered location and shall cover the cost of all labor, materials, equipment and tests required and necessary to install the wellpoints at each ordered location, including the furnishing and installing of all other items necessary to complete this work and do all work incidental thereto; all in accordance with the specifications, and as directed by the Engineer.
- (e) Wellpoint Rental The quantity of wellpoint rental to be measured for payment shall be the number of wellpoints per day incorporated into the work, complete, as shown, specified or required. The contract price for Item No. DSS008E - WELLPOINT RENTAL shall be the unit price bid per each per day for wellpoints installed and utilized at any ordered location and shall cover all costs required and necessary for rental of wellpoints. Payment under this item will commence upon completion of installation and start of operation of the dewatering system. Payment will cease upon completion of the need for dewatering as approved or ordered by the Engineer.
- (f) System Operation The quantity of system operation to be measured for payment shall be the number of hours of system operation required, during normal working hours and/or as approved or ordered by the Engineer, to operate the dewatering system, complete, as specified or required. The contract price for Item No. DSS008F - SYSTEM OPERATION shall be the unit price bid per hour for system operation at any ordered location and shall cover the cost of all labor, materials, plant and equipment required and necessary to properly operate the dewatering system at each ordered location, including the furnishing and installing of all other items necessary to complete this work and do all work incidental thereto; all in

accordance with the specifications, and as directed by the Engineer. Payment under this item will be made based upon the hours the system is in operation and staffed during normal working hours and/or as approved or ordered by the Engineer. No additional or separate payment will be made for any additional costs arising out of labor overtime costs (premium costs) or for any work that is performed beyond normal work hours or on weekends. The costs thereof shall be deemed included in the unit price bid per hour of System Operation.

- (6) ADDITIONAL PAYMENT If Header or Discharge Pipe is required to be buried to provide vehicular and/or pedestrian access as determined in writing by the Engineer, additional payments shall be made as follows; for any excavation, removal of pavements, plating or temporary pavement, backfilling and compaction required, payment shall be made under Item No. 73.31AE2 ADDITIONAL EARTH EXCAVATION INCLUDING TEST PITS (OVER 12' TO 16' DEPTH); for any additional fill ordered in writing by the Engineer, payment shall be made under Item No. 73.41AG ADDITIONAL SELECT GRANULAR BACKFILL; and for any permanent pavement restoration required outside the limits of the trench widths and cutbacks, payment shall be made under the appropriate pavement restoration items.
- (7) NO ADDITIONAL PAYMENT No additional payment will be made for any costs associated with demobilization as a result of dewatering. The costs thereof shall be deemed included in the unit prices bid for all associated dewatering items.

DSS-14 TREE CONSULTANT

(1) INTENT

The Contractor shall engage the services of a professional forester or arborist as a Tree Consultant who shall, in anticipation of the potential for work in sidewalk and roadway street areas that will affect trees, prepare a preconstruction report and serve as an advisor to the Engineer and the Contractor. The Tree Consultant shall be responsible, at all ordered locations affecting trees, for checking, inspecting and directing; all construction work around existing trees; all maintenance pruning of trees; all fertilization; and all protection of trees. The Tree Consultant shall also be responsible for ensuring and enforcing compliance of all work with these specifications, and the Department of Parks and Recreation permits, requirements, specifications and standards.

(2) DESCRIPTION

The Tree Consultant shall be a professional forester or arborist approved by the Engineer, who shall, in anticipation of the potential for work in sidewalk and roadway street areas that will affect trees, prepare a preconstruction report advising the Engineer and the Contractor as to the following:

- (a) Possible means and methods (including alternate methods) of excavation, backfill and compaction at potential sidewalk and roadway street areas that will affect trees so as to ensure the least impact upon existing trees and compliance with these specifications, and the Department of Parks and Recreation permits, specifications, and standards.
- (b) Probable means and methods (including alternate methods) of maintenance pruning operations where necessary.
- (c) Assess potential damage or injury to trees and root systems that may be caused by Contractor's operation and establish construction operation procedures for preventing such damage or injury.
- (d) And any other procedures required to satisfy these specifications, and the Borough Forester's requirements.

The Tree Consultant shall be required, at all ordered locations affecting trees, to be present at all times during the Contractor's construction operation to ensure, direct and enforce compliance by the

Contractor with these specifications, and all Department of Parks and Recreation permits, requirements, specifications and standards.

The Tree Consultant shall be a person independent of and not associated with those persons performing tree pruning, protection and fertilization operations under this contract.

The Tree Consultant shall, at all ordered sidewalk street locations affecting trees, personally witness all; sidewalk, driveway, curb and roadway removal; excavation, backfill and compaction work; and tree pruning, protection and fertilization. The Tree Consultant shall, at all ordered roadway street locations affecting trees, personally witness all; excavation, backfill and compaction work; and tree pruning, protection and fertilization. The Tree Consultant shall at each ordered location affecting trees, locate and identify all trees affected and the means and methods to be utilized for their protection. The Tree Consultant shall also approve all Contractor's construction equipment and manner of work. The Tree Consultant shall also assess any damage and recommend corrective action. The Tree Consultant shall identify trees, recommend construction alternatives to save existing trees and shall do all other work required and necessary to ensure compliance with these specifications, and the Department of Parks and Recreation permits, requirements, specifications and standards.

(3) SELECTION PROCESS

Prior to the start of work the Contractor shall submit the name and qualifications of a person whom the Contractor feels would be acceptable as a Tree Consultant.

The Tree Consultant shall submit at this time a proposal describing its relevant experience and general approach towards fulfilling the requirements and objectives of this section.

(4) QUALIFICATIONS

The minimum qualifications required for consideration as the Tree Consultant shall be as follows:

- (a) Associate degree in forestry, arboriculture, horticulture, or related plant science field, and five (5) years of full-time professional experience in landscape design and the field supervision of techniques to mitigate damage to existing trees from the negative impacts of construction; or
- (b) B.S. in forestry, arboriculture, horticulture, or related plant science field, and three (3) years of full-time professional experience in landscape design and the field supervision of techniques to mitigate damage to existing trees from the negative impacts of construction; or
- (c) M.S. in forestry, arboriculture, horticulture, or related plant science field, and one (1) year of full-time professional experience in landscape design and the field supervision of techniques to mitigate damage to existing trees from the negative impacts of construction; or
- (d) Arborist certification from the New York State Arborists/International Society of Arboriculture Chapter, Inc., and three (3) years of full-time professional experience in landscape design and the field supervision of techniques to mitigate damage of existing trees from the negative impacts of construction; or
- (e) Other state arborist certification recognized by the International Society of Arboriculture or the National Arborist Association, and three (3) years of full-time professional experience in landscape design and the field supervision of techniques to mitigate damage to existing trees from the negative impacts of construction.

(5) SUBMISSION OF REPORTS

PROJECT ID.: SEX00201Z

Upon approval, the Tree Consultant will be required to submit five (5) copies of the preconstruction report together with all materials and plans required. Reports shall be bound and bear the name of the contract and signature of the preparer.

(6) MEASUREMENT

The quantity to be measured for payment of Item No. DSS006A - TREE CONSULTANT shall be the time, measured in person hours, that the Tree Consultant actually performed work on this contract as specified and to the satisfaction of the Engineer.

(7) PRICE TO COVER

The contract price bid for Item No. DSS006A - TREE CONSULTANT shall be a unit price per person hour and shall cover the cost of all labor, material, plant, equipment, inspection, reports and incidentals required to complete the work, all in accordance with the plans, specifications, standard and as directed by the Engineer and Borough Forester.

DSS-15 TREES TO BE REMOVED AND REPLACED

During the work of reconstructing sewers in sidewalk or mall areas, the Contractor, when ordered in writing by the Engineer and approved by the Parks Department, shall remove trees along the line of the work. The cost of all the labor and materials required to remove trees, as directed, shall be deemed included in the unit prices bid for the respective tree removal items.

Where trees along the line of the work are removed, as directed, the Contractor shall replace such trees with new trees in accordance with the requirements of the Department of Parks and Recreation. The cost of all the labor and materials required to furnish and place new trees, as directed, together with the cutting of tree pits and all work incidental thereto, shall be deemed included in the unit price bid for Item No. 4.16 CA405 - TREES PLANTED, 3" TO 3-1/2" CALIPER, ALL TYPES, IN 4' X 5' TREE PITS.

DSS-16 ADDITIONAL SIDEWALK RESTORATION

The Contractor is notified that during the work of reconstructing sewers at any ordered location, the Engineer may order additional sidewalk reconstruction outside the ordered trench and cutback restoration limits.

The cost of all the labor and materials required to perform this ordered additional existing concrete sidewalk removal and reconstruction outside the ordered sewer and water main trench and cutback restoration limits, together with all work incidental thereto, shall be deemed included in the unit prices bid for Item No.4.13 AAS - 4" CONCRETE SIDEWALK (UNPIGMENTED), and Item No. 4.13 BAS - 7" CONCRETE SIDEWALK (UNPIGMENTED).

It shall be understood that such sidewalk reconstruction is in addition to and does not include sidewalk restoration included in the unit price bid for the reconstruction of sewers and water mains.

DSS-17 ADDITIONAL ROADWAY RESTORATION

The Contractor is notified that during the work of reconstructing sewers at any ordered location, the Engineer may order additional roadway reconstruction outside the ordered trench and cutback restoration limits.

The cost of all the labor and materials required to perform this ordered additional existing roadway removal and reconstruction outside the ordered sewer and water main trench and cutback restoration limits, together with all work incidental thereto, shall be deemed included in the unit prices bid for Item No. 4.02 CA - BINDER MIXTURE, Item No. 4.02 CB - ASPHALTIC CONCRETE MIXTURE, and Item No. 4.04 H - CONCRETE BASE FOR PAVEMENT, VARIABLE THICKNESS FOR TRENCH RESTORATION, (HIGH-EARLY STRENGTH).

It shall be understood that such roadway reconstruction is in addition to and does not include roadway restoration included in the unit price bid for the reconstruction of sewers and water mains.

DSS-18 METHOD OF PAYMENT

The following items of work herein specified are provided in order to afford the City of New York opportunity to have such work done if found necessary. It shall be understood by the Contractor that the work as specified under any one of these items may be ordered by the City of New York and in the unit quantities found necessary by the Department of Environmental Protection. The City of New York, however, is not bound to order any of the work specified under these items. Payment will be made only for the actual number of unit quantities ordered under each item.

In the execution of any work under any of these items, the Contractor shall see that the work is progressed as quickly as possible and without delay. All labor, equipment and materials necessary for the proper execution and completion of each item of work called for are to be furnished and delivered by and at the cost and expense of the Contractor and the work executed and completed in every detail whether specifically mentioned or not.

The contract prices for Extra Strength Vitrified Pipe Sewers and/or Precast Reinforced Concrete Pipe Sewers shall be the unit price bid per linear foot for each size, kind, class and type of sewer and shall cover the cost of all labor, materials, equipment, samples and tests required and necessary to construct the extra strength vitrified pipe sewers and/or the precast reinforced concrete pipe sewers of the sizes and to the lines and grades as shown, specified, or ordered, including the earth excavation of all materials of whatever nature encountered (See Section 40.03 - Earth Excavation and except excavation of concrete encased sewers and other large objects as specified herein); all pumping and work required to eliminate blockages and restore and maintain sewage flow, all sheeting and bracing; pumping; fluming; bridging; decking; breaking down and filling in of abandoned sewer appurtenances; connections; concrete cradle and encasements; maintaining flow in sewers; backfilling; cleaning up; mobilization (except mobilization for dewatering purpose); temporary restoration of street surfaces; support and maintenance of existing City structures that are encountered during excavation (including curbs, stoops, fences, copings, vaults, light poles, etc.); removal of existing collapsed or otherwise defective sewers and their foundation supports of broken stone or concrete cradle; removal, reconstruction and reconnection of existing house sewer connections together with spurs and risers for existing house connections; removal, reconstruction and reconnection of existing basin connections; removing and cleaning the sewer of any debris up to and including manholes on both sides of the section of sewer being reconstructed during and after the completion of the work at any ordered location; permanent restoration of all roadway top courses and base courses within the limits of trenches and cutbacks; permanent restoration of all sidewalks within the limits of trenches and cutbacks (sidewalks shall be restored in full flag units up to a maximum overall width of ten (10) feet) together with foundation material; permanent restoration of all curbs, malls, medians, pedestrianways and other non-roadway areas within the limits of trenches and cutbacks together with foundation materials; and furnishing and installing all other items necessary to complete this work and do all work incidental thereto, all in accordance with the plans, specifications and standards and as directed by the Engineer. In addition, included in the price hereunder shall be the cost of all labor and materials necessary to construct the concrete cradle so that it shall extend under the existing sewer one and one-half (1-1/2) feet beyond the pipe joints at each end of the reconstructed sewer; and to construct at both ends where the reconstructed sewer joins the existing sewer, joints that shall be encased with a four (4) inch thick concrete encasement, twelve (12) inches long on either side of the joint.

When additional spurs are required and ordered in writing by the Engineer for future house connections, payment shall be made for these in place additional spurs under the prices bid for Item No. 52.31V06P00 - 6" E.S.V.P. SPUR FOR HOUSE CONNECTION ON E.S.V.P. SEWER, and Item No. 52.31V08P00 - 8" E.S.V.P. SPUR FOR HOUSE CONNECTION ON E.S.V.P. SEWER.

When additional risers are required and ordered in writing by the Engineer for future house connections, payment shall be made for these in place additional risers under the prices bid for Item

No. 52.21V08 - 8" E.S.V.P. RISER FOR HOUSE CONNECTION, and Item No. 52.21V10 - 10" E.S.V.P. RISER FOR HOUSE CONNECTION.

When basin connections are required and ordered in writing by the Engineer to be relayed in a new location, payment shall be made for these in place basin connections under the price bid for Item No. 52.11D12 - 12" DUCTILE IRON PIPE BASIN CONNECTION.

Payment for in place additional steel reinforcing bars required and ordered in writing by the Engineer shall be made under the price bid for Item No. 73.51AS - ADDITIONAL STEEL REINFORCING BARS.

Payment for in place additional select granular backfill required and ordered in writing by the Engineer shall be made under the price bid for Item No. 73.41AG - ADDITIONAL SELECT GRANULAR BACKFILL.

Payment for in place additional brick masonry required and ordered in writing by the Engineer shall be made under the price bid for Item No. 73.11AB - ADDITIONAL BRICK MASONRY.

Payment for in place standard manholes required and ordered in writing by the Engineer, shall be made under the prices bid for Item No. 51.21S0A1000V - STANDARD MANHOLE TYPE A-1, and Item No. 51.21S0B1000V - STANDARD MANHOLE TYPE B-1. Included in the respective prices bid shall be the cost for the removal of existing manholes. If no manhole exists where a new manhole is required and ordered, a credit will be taken for the omitted work.

Payment for in place standard catch basins required and ordered in writing by the Engineer shall be made under the price bid for Item No. 51.41S001 - STANDARD CATCH BASIN, TYPE 1. Included in the respective prices bid shall be the cost for the removal of existing catch basins. If no catch basin exists where a new catch basin is required and ordered, a credit will be taken for the omitted work.

Payment for excavation of boulders in open cut required and ordered in writing by the Engineer shall be made under the price bid for Item No. 70.51EO - EXCAVATION OF BOULDERS IN OPEN CUT.

Payment for in place planted trees required and ordered in writing by the Engineer, shall be made under the price bid for Item No. 4.16 CA405 - TREES PLANTED, 3" TO 3-1/2" CALIPER, ALL TYPES, IN 4' X 5' TREE PITS. Included in the price bid shall be the cost for tree pits, fertilizer, stakes and wire, topsoil, etc.

Payment for additional earth excavation required and ordered in writing by the Engineer, shall be made under the prices bid for Item No. 73.31AE2 - ADDITIONAL EARTH EXCAVATION INCLUDING TEST PITS (OVER 12' TO 16' DEPTH), and Item No. 73.31AE3 - ADDITIONAL EARTH EXCAVATION INCLUDING TEST PITS (OVER 16' TO 20' DEPTH). Included in the prices bid shall be the cost for additional sheeting, bracing and pumping required beyond the limits hereinbefore mentioned.

Payment for in place stone ballast required and ordered in writing by the Engineer, shall be made under the price bid for Item No. 70.71SB - STONE BALLAST. Included in the price bid shall be the cost for additional excavation for placement of stone ballast.

Payment for in place additional concrete required and ordered in writing by the Engineer, shall be made under the price bid for Item No. 73.21AC - ADDITIONAL CONCRETE.

Payment for maintenance and protection of traffic required and ordered in writing by the Engineer shall be made under the price bid for Item No. 6.70 - MAINTENANCE AND PROTECTION OF TRAFFIC. Included in this item will be payment for making the area safe for residents and for pedestrian and vehicular traffic within the initial response time.

Payment for maintenance of site required and ordered in writing by the Engineer shall be made under the price bid for Item No. 7.13 A - MAINTENANCE OF SITE.

Payment for in place fencing required and ordered in writing by the Engineer, shall be made under the price bid for Item No. 70.31FN - FENCING.

Payment for television inspection and digital audio-visual recording of sewers required and ordered in writing by the Engineer shall be made under the price bid for Item No. 53.11DR - TELEVISION INSPECTION AND DIGITAL AUDIO-VISUAL RECORDING OF SEWERS.

Payment for removal of trees required and ordered in writing by the Engineer, shall be made under the prices bid for Item No. 4.16 AA - TREES REMOVED (4" TO UNDER 12" CALIPER), Item No. 4.16 AB - TREES REMOVED (12" TO UNDER 18" CALIPER), Item No. 4.16 AC - TREES REMOVED (18" TO UNDER 24" CALIPER), and Item No. 4.16 AD - TREES REMOVED (24" CALIPER AND OVER).

Payment for maintenance tree pruning required and ordered in writing by the Engineer, shall be made under the prices bid for Item No. 4.18 A - MAINTENANCE TREE PRUNING (UNDER 12" CALIPER), Item No. 4.18 B - MAINTENANCE TREE PRUNING (12" TO UNDER 18" CALIPER), Item No. 4.18 C - MAINTENANCE TREE PRUNING (18" TO UNDER 24" CALIPER), and Item No. 4.18 D - MAINTENANCE TREE PRUNING (24" CALIPER AND OVER).

Payment for 8-inch, 12-inch and 20-inch water main offsets and replacements required and ordered in writing by the Engineer due to water mains crossing sewer trenches and water mains interfering with sewer trenches shall be made under the prices bid for the various water main items provided in the contract for water main work actually performed.

Payment for photographs required and ordered in writing by the Engineer, shall be made under the price bid for Item No. 10.32A - PHOTOGRAPHS.

DSS-19 GUARANTEED MINIMUM

In the event the Contractor is not issued any Task Orders hereunder, the City agrees to pay, and the Contractor agrees to accept, a minimum fee of two thousand dollars (\$2,000.00). The Contractor further agrees that under such circumstances, the Contractor has no action for damages or for loss of profits against the City.

END OF ADDENDUM NO. 2
This Addendum consists of twenty-five (25) pages.

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: SEX00201Z

FOR THE RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS IN VARIOUS LOCATIONS

Together With All Work Incidental Thereto BOROUGH OF THE BRONX

ADDENDUM NO. 3	
DATED: August 5, 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.

GAS COST SHARING (EP-7) STANDARD SPECIFICATIONS

EP-7 GAS COST SHARING STANDARD SPECIFICATIONS

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I - NOTICE TO ALL BIDDERS; GAS COST SHARING WORK

All prospective bidders are hereby advised that, pursuant to the "Gas Facility Cost Allocation Act", ("the Act"), the City of New York has entered into an agreement ("the Agreement") with the gas companies (Con Edison or National Grid (formerly KeySpan Energy Delivery)) operating in their respective areas of the City to "share" the cost of facility relocation and/or support and protection of facilities disturbed by proposed water and/or sewer and related City work specified in this contract. Therefore, bid items, specifications and estimated quantities for the incremental costs of support and protection of certain gas facilities have been included in this contract. The low bid for this contract shall be determined by examining each bid for all work to be performed under this contract including any work of support and protection of gas facilities to be performed. The Contractor shall not seek additional compensation from gas companies except as specifically set forth in its contract.

II - GENERAL PROVISIONS; GAS COST SHARING WORK

1. General:

The Contractor shall perform City work with interferences from existing live and abandoned gas facilities. This shall be defined as utility work. Therefore, this contract includes bid items, specifications and estimated quantities designed to fully compensate him/her for the incremental costs of supporting, protecting, providing accommodations and, avoiding disturbing gas facilities located in the streets shown on the contract drawings. In the event that any other provisions of this contract related to gas facilities (or private utilities) conflict with these provisions, these provisions shall supersede and govern all work related to gas facilities owned by the companies operating in the project area. All utility work, as defined in these specifications, including changes and additions thereto shall be paid solely by the City except when specified otherwise in this contract. Contractor hereby agrees that the facility operator shall not be liable to pay him/her for any work performed including extra utility work. Contractor agrees that its bid prices include all compensation for loss of productivity and efficiency, idle time, delays (including any delays occasioned by negotiation of a contract change), change in operations, mobilization, demobilization, remobilization, added cost or expense, lost of profit, other damages or impact costs that may be suffered by or because of utility work, or the presence of gas facilities in the proximity of City work and that it will not seek additional compensation for these items. All disputes shall be resolved as specified in the contract.

Pursuant to the Act, Agreement, and the New York City Administrative Code, the gas company(ies) has been directed by the Commissioner and is required to perform all maintenance, repairs, replacement, shifting, alteration, relocation, and/or removal work that are not part of this contract. By having bid on this contract, the Contractor understands and agrees that the Commissioner has preasserted any right the City has to require, including the issuance of any directives or so called "order outs" under the New York City Administrative Code, any or all gas companies to maintain, repair, replace, protect, support, shift, alter, relocate, and/or remove all gas facilities that are about to be disturbed by the City contract work. The issuance of additional such directives during the performance of the contract work, where necessary in the sole judgment of the Commissioner, shall be initiated by such Commissioner as set forth in the relevant sections of the Act and Agreement. Contractor further agrees to insert such requirements as set forth herein above into any contracts with its approved subcontractors so that its subcontractors also understand and agree to such contract requirements.

2. Gas Interferences And Accommodations:

During the performance of sewer and water main work funded by the New York City Department of Environmental Protection (NYCDEP), as instructed by the Engineer, the use of any applicable contract bid item is allowed in order to resolve and accommodate all gas facilities interferences with such City work, including the removal of contaminated soil in associated trench excavation. This is in addition to the specified EP-7 bid items in the contract. Payment for such accommodation shall be funded by EP-7 bid item "UTL-GCS-2WS - GAS INTERFERENCES AND ACCOMMODATIONS" (F.S. Fixed Sum). The value of such accommodation shall be computed by multiplying the appropriate unit prices bid to the quantity of work performed, as determined by the Engineer, and applying the total amount thus to be paid

to EP-7 bid item "<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".

3. Method Of Measurement:

The Contractor shall be paid for supporting and/or protecting gas facilities crossing trench excavations under the appropriate bid items covered by this section. The Contractor shall be directly responsible to the facility operator for the total cost of using any alternate method requiring the use of resources owned by the facility operator. Regardless of the method used, the City shall pay the bid price for the appropriate support and/or protect item of work. The average rate charged by the facility operator for alternate support and protection work such as, disconnecting and reconnecting gas services is listed in attached "Schedule GCS-A".

4. Payment Restrictions:

These items shall not be paid for: gas services crossing unsheeted water main trench excavation; abandoned gas main/services identified by facility operator; gas mains/services crossing trench excavations for fire hydrant branch connections pipes, catch basins and/or chutes (sewer drain pipe), house sewer and/or water services; gas facilities encroaching any face of excavation for sewer and/or water construction, all of which are covered under other contract sections. Also this item shall not be paid for new gas mains and services crossing water trenches when trenching for such new facilities has been performed by the Contractor in common with trench excavation for City work (overlapping trench limits). The cost of supporting and protecting such gas facilities crossings shall be deemed included in the cost of trench excavation for the new gas facilities. This payment restriction shall apply even if such common trench gas excavation is not part of the contract. The prices bid for items covered by this section represent full compensation to Contractor to completely perform the work described. No other bid items shall be combined with these items in order to pay for gas main and/or services crossing excavations specified herein.

5. Method Of Payment:

Each (Ea.) gas facility crossing trench excavation as described in these specifications shall be counted for payment.

6. Price To Cover:

The cost of timber/steel supports installed for gas facilities shall be included in the bid price. The bid price for each crossing shall also cover all additional supervision, labor, material (except those provided by the facility operator), equipment and insurance necessary to completely maintain the gas facilities without disruption of service to the customers and in accordance with contract plans, specifications and facility operator standards. The price shall also include: changes of method of operations; sheeting modifications where necessary to accommodate the gas facilities crossings; installation and removal of water pipe under gas facilities (so called "snaking"); extra care during excavation (including hand excavation under existing single and multiple gas facilities); extra backfilling and compaction around, over and under gas facilities; installation and removal of sheeting around gas facilities; associated maintenance and protection of traffic; barricades; and traffic plates that may be required to temporarily close and/or complete the work.

SECTION 6.02 - Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Gas Interferences.

1. Description:

Under this item, the Contractor shall provide all labor, materials, equipment, insurance, and incidentals for the extra excavation associated with the installation of catch basin sewer drain pipes (chute) under gas facilities of various sizes crossing the trench excavation at various angles and depth at the locations shown in the contract documents and also, for the support and protection of these facilities during associated excavation and backfill operations. The gas company operating in the area, (facility operator), owns these facilities.

2. Method Of Measurement:

The bid price shall be per location (Each) where extra excavation is required when catch basin sewer drain pipes are installed at an upstream invert depth lower than four (4) feet (up to a maximum of six (6) feet) from the proposed pavement grade because the bottom faces of interfering gas mains and appurtenances are located at a depth greater than three (3) foot eight (8) inches from proposed pavement surface (See "Gas Cost Sharing Work Standard Sketch No. 4").

3. Method Of Construction:

Incremental cost responsibility for chute excavation is determined by the first private facility encountered starting from catch basin structure proper and that prevents the installation of the chute connection at an upstream cover less than or equal to three (3) feet or any other minimum cover required to avoid City facilities (e.g. water, sewer, etc.) as directed by the Resident Engineer.

4. Payment Restrictions:

This item shall not apply and related bid item shall not be paid in cases where:

- A. Upstream invert chute is more than six (6) feet deep because of gas facilities.
- B. Chute cannot be installed above existing gas facilities because of interferences with other private facilities that are not otherwise covered under this contract, regardless of upstream invert depth.

The above cases shall be at no cost to the City, but shall be a matter of adjustment between the Contractor and the facility operator(s).

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, or at locations determined by Contractor to allow the removal of Coal Tar Wrap (if present on the abandoned gas facility) and to facilitate the safe extraction of manageable lengths of abandoned pipe without damage to adjacent facilities, utilities or city structures either parallel to or crossing above or below abandoned gas facility. The Contractor is to allow access to the designated cutting points within the Contractors trench by authorized Con Edison personnel who will remove the Coal Tar Wrap as per Con Edison and/or NYC-DEP approved procedures. This access shall conform to all applicable codes, rules & regulations. This work by Con Edison personnel shall be performed in a timely fashion and shall not unduly impede the Contractors progress and/or productivity. Upon completion of the coating removal, the Contractor shall be allowed to cut, burn or grind the gas facility and remove the section of abandoned pipe. Contractor shall designate a specific site to stockpile those removed pipes. The facility operator will be responsible to provide trucking and disposal services with its own personnel and shall remove the stockpiled pipes during off hours or during such time as agreed to by the Contractor. Since the pipe removed will remain the property of the facility operator and is to be disposed of by the facility operator, the facility operator shall be responsible for any required notifications, filings, dump charges and incidentals associated with the disposal of abandoned gas facilities found to contain Coal Tar Wrap.

4. Method Of Measurement:

Abandoned gas facility removal shall be measured for payment per linear foot of pipe and appurtenances removed.

5. Price To Cover:

The price shall cover all additional cost of supervision, labor, materials, equipment and insurance necessary to complete this work in accordance with the plans and specifications, including, but not limited to, excavation by hand around and under other City and facility operator owned properties and, where necessary, the support and protection of such properties. The cost shall also include hand excavation in the area(s) of proposed abandoned pipe cut(s), cutting and/or burning of abandoned gas pipes and stockpile of removed sections of abandoned pipe and associated maintenance of traffic, blocking and temporary fencing if required. The unit price shall also cover sealing open ends remaining in the excavation with concrete or end caps (end caps to be supplied by facility operator) and backfilling of the area where the abandoned pipeline has been removed with clean backfill material. This item does not include any type of extra excavation, backfilling, compaction, pavement removal and/or restoration (temporary and permanent) associated with abandoned pipe removal ("lost trench"), all of which are covered under separate Section 6.06. The price shall also include allowance for any loss of productivity by the Contractor due to required facility operator work to remove pipe coating and prepare pipe for cutting as well as any change in Contractor excavation method, additional trucking and/or stockpiling costs.

SECTION 6.04 - Adjust Hardware To Grade Using Spacer Rings/Adaptors. (Street Repaying.)

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.

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 directed by the Resident Engineer. The price shall also include the cost of providing safe access to the excavation by facility operator for the performance of certain test to determine operating status of gas facilities prior to City work. The price shall also include support and protection of all gas facilities crossing excavation, paralleling and/or encroaching any face of excavation.

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

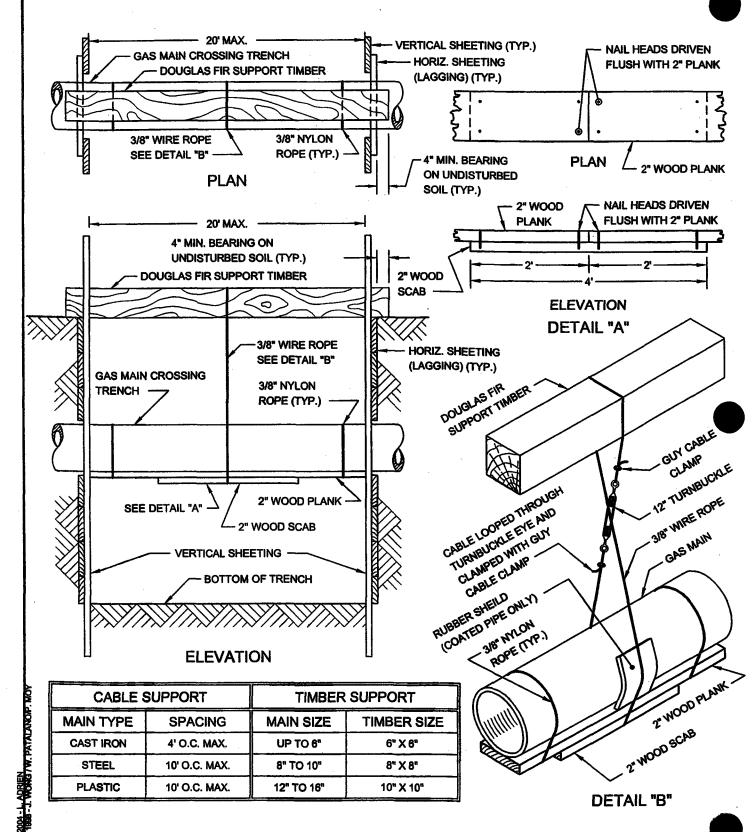
IV - STANDARD SKETCHES; GAS COST SHARING WORK

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

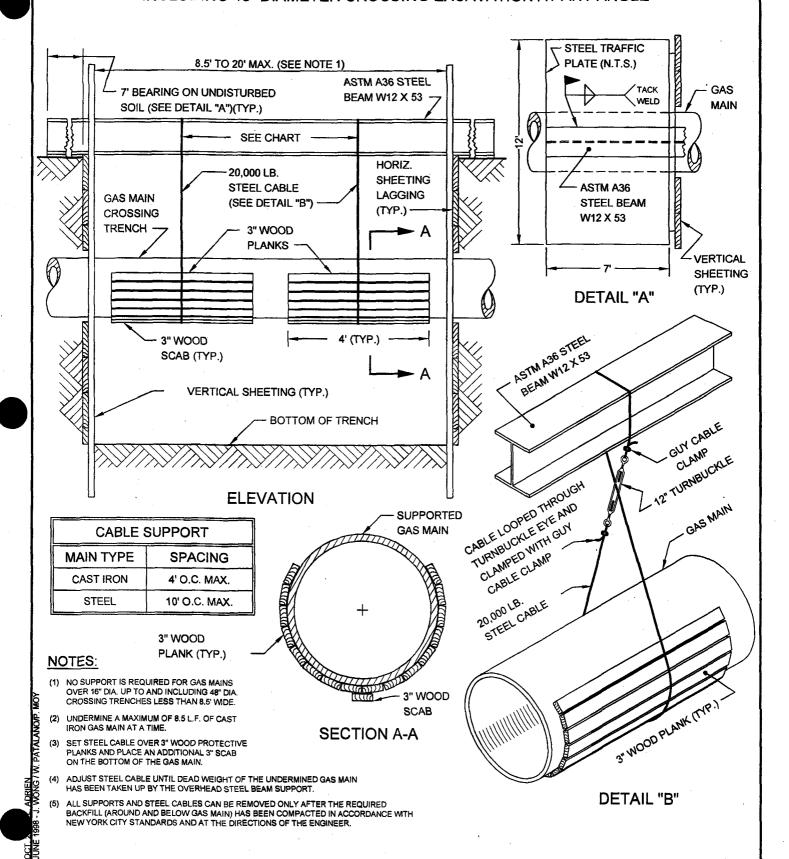
GAS COST SHARING WORK (SKETCH NO. 1)

SUPPORT REQUIREMENTS FOR GAS MAINS AND SERVICES CROSSING EXCAVATION GREATER THAN 4'-0" WIDE AT ANY ANGLE

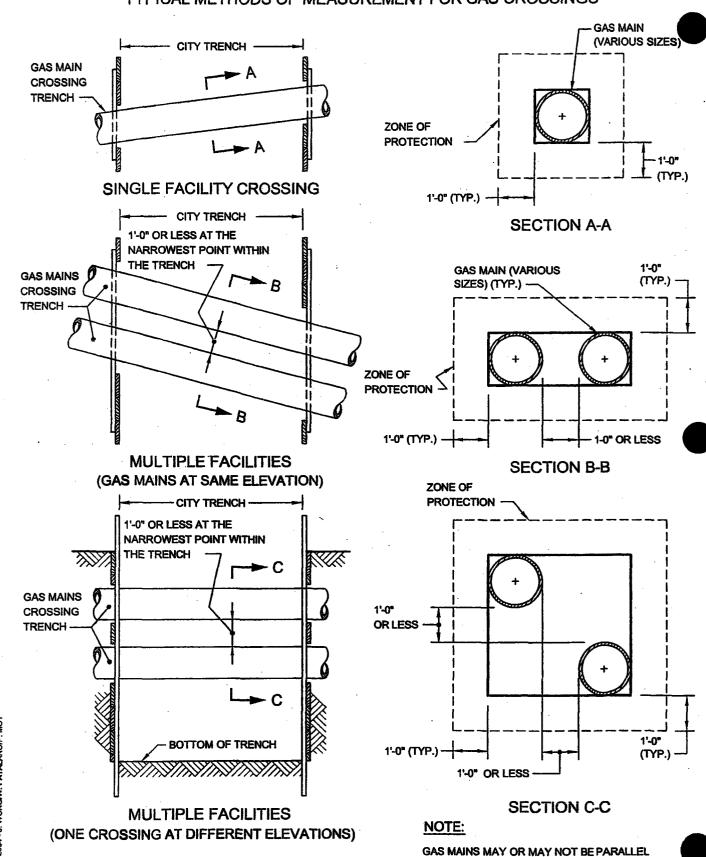


GAS COST SHARING WORK (SKETCH NO. 1A)

SUPPORT REQUIREMENTS FOR GAS MAINS OVER 16" DIAMETER UP TO AND INCLUDING 48" DIAMETER CROSSING EXCAVATION AT ANY ANGLE



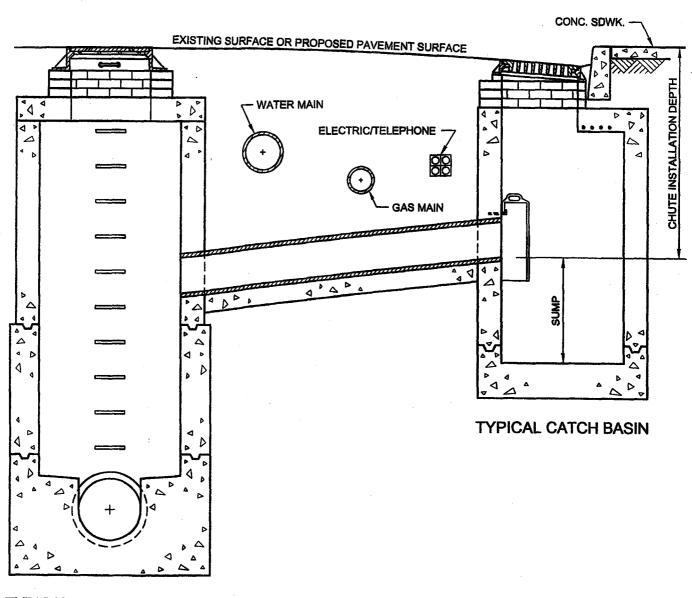
GAS COST SHARING WORK (SKETCH NO. 2) TYPICAL METHODS OF MEASUREMENT FOR GAS CROSSINGS



TO EACH OTHER.

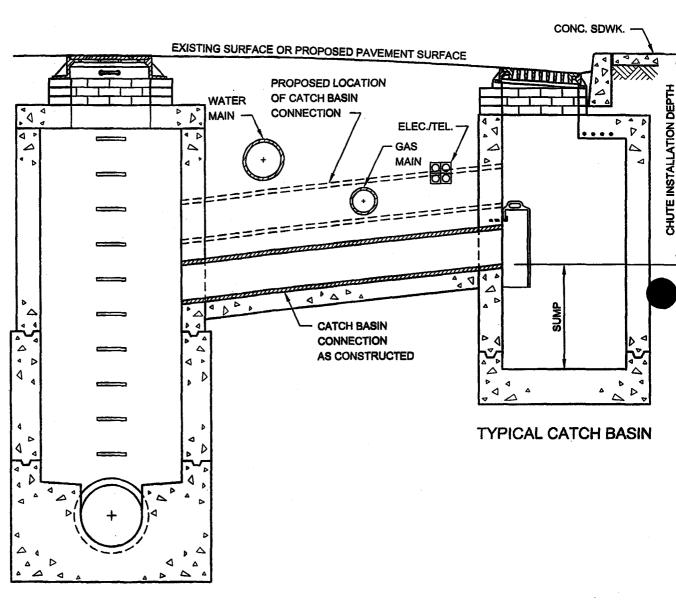
GAS COST SHARING WORK (SKETCH NO. 3)

UTILITY CROSSINGS DURING CATCH BASIN CHUTE CONNECTION PIPE INSTALLATION

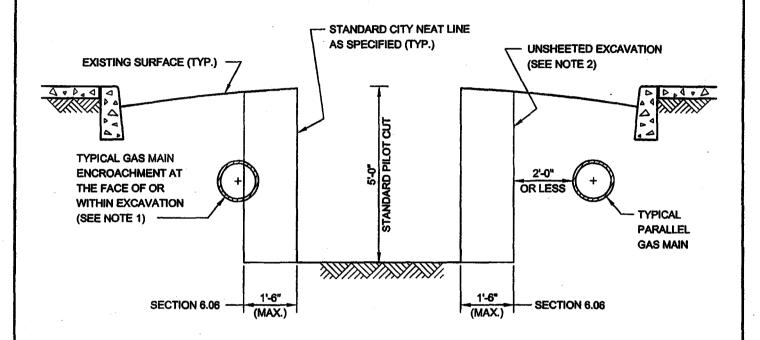


TYPICAL SEWER MANHOLE

GAS COST SHARING WORK (SKETCH NO. 4) UTILITY CROSSINGS DURING CATCH BASIN CHUTE CONNECTION PIPE INSTALLATION (EXTRA DEPTH)



GAS COST SHARING WORK (SKETCH NO. 5) GAS MAIN ENCROACHMENT ON AND/OR PARALLEL TO EXCAVATION OF UNSHEETED TRENCH



NOTES:

- (1) GAS MAIN LOCATED AS SHOWN MAY HAVE TO BE REMOVED BY THE FACILITY OPERATOR PRIOR TO THE START OF CITY EXCAVATION, OTHERWISE, THE CONTRACTOR WILL BE PAID UNDER SECTION 6.06 FOR THE SAID WORK. IF GAS MAIN IS ABANDONED THEN SECTION 6.03 SHALL APPLY.
- (2) EIGHTEEN (18) INCHES FROM STANDARD NEAT LINE IS THE MAXIMUM ALLOWABLE WIDTH, OF AREA THAT MAY BE DISTURBED OR EXCAVATED DURING INSTALLATION OF CERTAIN TYPES OF SHEETING SYSTEMS THAT MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE DEPARTMENT OF DESIGN AND CONSTRUCTION OF THE CITY OF NEW YORK.

NO TEXT THIS PAGE

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, 17TH 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 SEX-00201Z

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.)

30 in Various Locations As Required.

6.01.2 - Support & Protect Gas Main Crossing Sewer 30" In Diameter (Ea.)

2 in Various Locations As Required.

6.01.3 - Support & Protect Gas Main Crossing Sewer 36" Thru 42" In Diameter (Ea.)

2 in Various Locations As Required.

6.01.8 - Support & Protect Gas Services Crossing Trenches And/Or Excavations (Ea.)

90 in Various Locations As Required.

6.01.9 - Support & Protect Gas Main Crossing Water Main Up To 20" In Diameter (Ea.)

5 in Various Locations As Required.

6.02 - Extra Excavation For The Installation Of Catch Basin Sewer Drain Pipes With Gas Interferences (Ea.)

5 in Various Locations As Required

6.03 - Removal Of Abandoned Gas Facilities. All Sizes (L.F.)

1500 in Various Locations As Required

6.03.1a - Removal Of Abandoned Gas Facilities With Possible Coal Tar Wrap.

All Sizes. (For Con Edison Work Only) (L.F.)

200 in Various Locations As Required

6.04 - Adjust Hardware To Grade Using Spacer Rings / Adaptor (Street Repaying) (Ea.)

20 in Various Locations As Required

SCOPE OF WORK SUPPORT AND PROTECTION FOR CONTRACT NUMBER SEX-00201Z

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.

6.05 - Adjust Hardware To Grade By Resetting (Road Reconstruction) (Ea.)

20 in Various Locations As Required

6.06 - Special Care Excavation & Backfilling (C.Y.)

750 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.)

100 in Various Locations As Required.

End of Addendum No. 3 This addendum consists of thirty-two (32) pages.

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

ADDENDA CONTROL SHEET

PROJECT NO.: SEX00201Z TITLE: RECONSTRUCTION OF VITRIFIED CLAY PIPES SEWERS							
					ADDENDA ISSUED	No. OF DRAWINGS	DATE
					#1: Amendments to Standard Highway Specs.		02/24/2014
#2: Sewer and Water Main Specifications		08/05/2014					
#3: Gas Cost Sharing (EP-7) Std. Specifications		08/05/2014					
#4: Additional Amendments		10/20/2014					
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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: SEX00201Z

FOR THE RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS IN VARIOUS LOCATIONS

Together With All Work Incidental Thereto

BOROUGH OF THE BRONX

ADDENDUM NO. 4

DATED: October 20, 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.

Refer to the Bid and Contract Documents, Volume 1 of 3, BID SCHEDULE, page B-25, Sequence No. 122, Item No. DSS008A:

<u>Delete</u> the text "BID PRICE OF MOBILIZATION SHALL NOT EXCEED 4% OF THE ABOVE SUBTOTAL PRICE."

By signing in the space provided below, the bidder acknowledges receipt of the one (1) page of this Addendum.

THIS ADDENDUM MUST BE SIGNED BY ALL BIDDERS AND ATTACHED TO THEIR BIDS.

GURDIP SAINI, P.E.

Assistant Commissioner/Design

Name of Bidder
By:



INFRASTRUCTURE DIVISION BUREAU OF DESIGN

VOLUME 3 OF 3

PROJECT ID: SEX00201Z

FOR THE RECONSTRUCTION OF COLLAPSED OR OTHERWISE DEFECTIVE STORM, SANITARY OR COMBINED VITRIFIED CLAY PIPE SEWERS IN VARIOUS LOCATIONS

Together With All Work Incidental Thereto
BOROUGH OF THE BRONX
CITY OF NEW YORK

<u>C.A.C</u>	Inclustries, Inc.	
		Contractor
Dated		, 20