

A D D E N D U M N O. 1

PROJECT SPECIFICATIONS

November 30, 2016

**Project: PROPOSED STATION ROAD CULVERT REPLACEMENT PROJECT (#2016-29)
VILLAGE OF IRVINGTON
WESTCHESTER COUNTY, NEW YORK**

Contractors bidding the referenced project are advised of the following revisions to the Bid Documents.

1) Is there a size or supplier/model# for the water meter pit cover to be replaced?

The water meter pit located at the corner of Station Road and Brook Place will remain "as is". A new cover and hatch is no longer required.

2) Can you provide further details on requirements for sanitary sewer bypass, temporary water, and stream diversion. (Size, type of pipe, etc.)

Temporary water will not be required.

The sewage should be pumped from the upstream manholes to the lower manholes. Due to the layout of the existing system, the installation of the sewer will be constructed in various stages. The proposed sewer manhole #1 (SMH#1) will be installed between the Village manholes numbers 113 and 115 (see attached Village Sewer Map). The section of pipe will be bypassed while SMH#1 is being installed. Once this is complete, the section of pipe between SMH#1 and manhole 113 will be installed. Then the section of pipe from Village manholes 119A to 113 will be replaced. The Contractor is responsible to provide power to the pump. A spare pump and backup power shall be kept onsite if the main pump fails.

The Contractor shall divert the stream during construction with bypass piping or pumping. The means and methods will be the responsibility of the contractor.

3) When is the project intended to start? If starting in freezing weather, what about protecting temporary water?

The construction of the project shall start only when the culvert and associated material can be installed, in order to limit the amount of time for the road closure. The Village is aware the construction is weather dependent. No temporary water is required.

4) Can you provide info on the sheeting requirements for the culvert excavation.

Sheeting or bracing must comply with OSHA regulations and Section M of the specifications.

Addendum No. 1
Proposed Station Road Culvert Replacement Project
November 30, 2016

5) Is any subsurface (boring) info available for the project area?

No subsurface information is available.

6) What if any special wetland requirements are there? What environmental agency has jurisdiction?

The watercourse is considered a local wetland and is regulated by the Village. No permitting is required by the Contractor.

7) We need the following:

- Soil Unit Weight (assume 120pcf)**
- Foundation Soil Friction Angle**
- Allowable Bearing Capacity (to support wingwalls)**
- Sliding (coefficient of friction)**

The Contractor shall be responsible to achieve a bearing capacity of 3,000 psf. The backfill material shall be in accordance with NYSDOT specifications Section 733-10 – Select Fill, Table 733-11A (attached). The coefficient of friction shall be assumed to be 0.35, which shall be verified by the Contractor in the field. In addition, an additional line item has been provided to separate the headwalls and wingwalls from the culvert section.

8) Section HR-Handrail is shown in the table of contents but not included in the specifications.

See attached section HR.

9) There is not an Itemized pay Item for the Handrail.

A line item has been added to the bid sheet (see attached).

10) What happens if the costs to perform the work exceed the allowance? (Con Edison work.)

Con Edison work shall be a fixed cost, not an allowable. By submitting a bid, the Contractor agrees to complete that portion of work for the amount specified.

11) How much of the Allowance is figured to pay Con Ed, how much for GC?

The fixed cost shown shall include the cost of the General Contractor and any subcontractors. The Contractor shall be installing the temporary and permanent gas mains, in accordance with the Con Edison specifications, at the fixed-cost shown.

**Addendum No. 1
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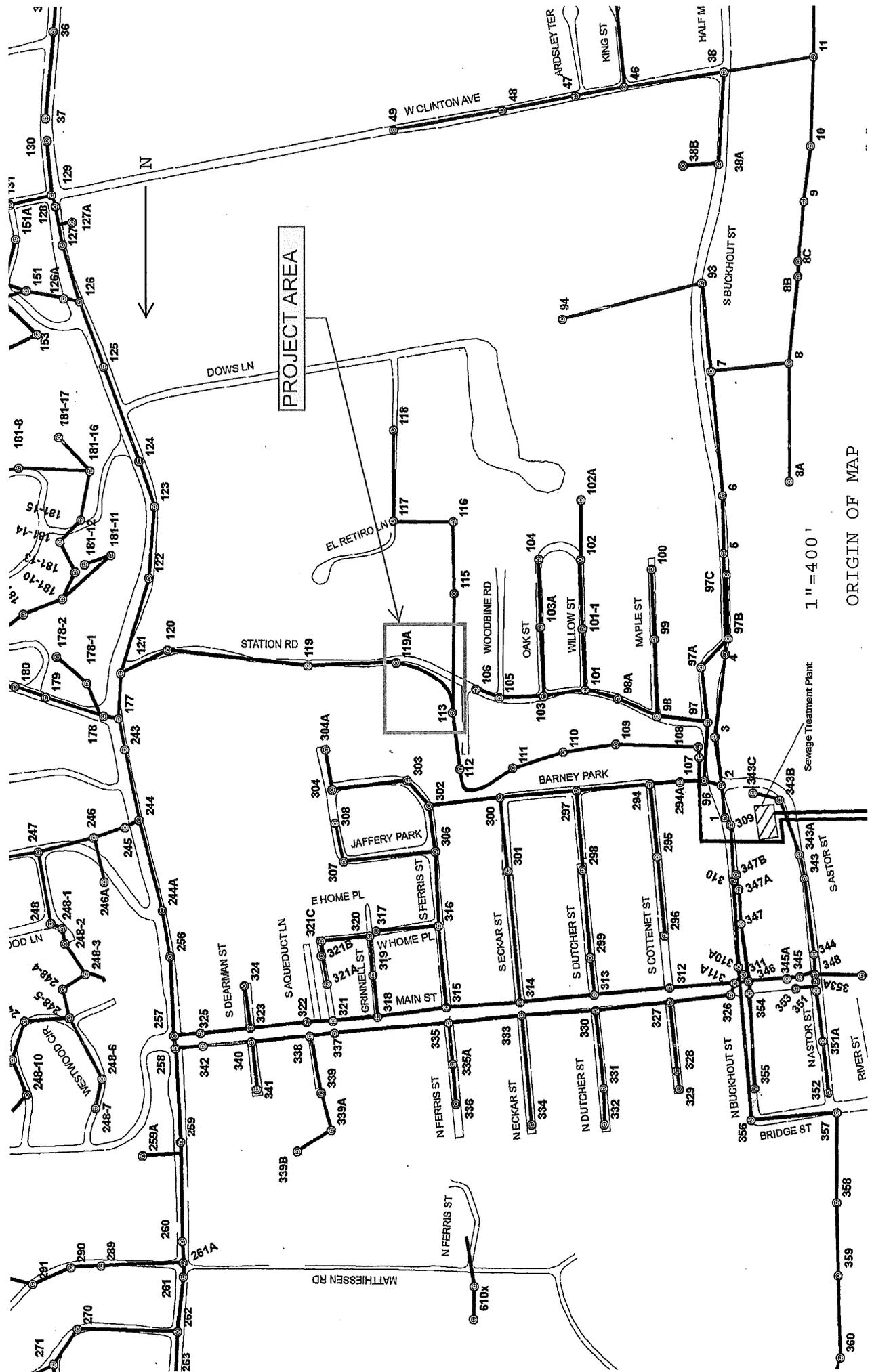
- 12) Is the Contractor allowed to work on site during the estimated 10 days Con Ed will be doing their work?**

The contractor may work while Con Edison performs their portion of the project if it does not interfere with Con Edison's work. The contractor shall be available as necessary to complete work in preparation of Con Edison's work. In addition, it is anticipated that the duration of Con Edison work will be less than 10 days.

- 13) Specifications, Section J. Insurance Requirements by the Village of Irvington from Contractors, Paragraph H – Insurance Covering Special Hazards, lists “Pollution Liability & Environmental Impairment Liability coverage. Is this coverage necessary / required for this project? (This is not standard coverage, covered in the standard General Liability or Excess Liability Insurances. The premium costs for said coverage, is approximately \$18,000.00. The carrier also will want to know the assumed “pollution” that is being covered. Please advise.**

The insurance coverage mentioned above will not be required as part of this contract.

- 14) The sign in sheet from the pre-bid meeting has been attached.**
- 15) The run-of-bank fill shall be paid as part of the specification section PCBC.**



1" = 400'

ORIGIN OF MAP
 VILLAGE OF IRVINGTON SEWER SYSTEM MAP
 PREPARED BY PAUL J. PETRETTI
 DATED 7/16/04

SAMPLING. Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures for non-stockpiled materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

MATERIAL REQUIREMENTS.

A. SOURCE. Provide backfill material from an approved source in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

B. GRADATION. Provide material consisting of rock, stone, slag, cobbles, or gravel, substantially free of shale or other soft, poor durability particles and conforming to the following requirements:

1. **Typical.** Except when used as backfill material for aluminum pipe with Type IR corrugations (Spiral Rib Pipe), the material shall have a gradation in accordance with TABLE 733-11A *Select Granular Fill Gradation*.

TABLE 733-11A SELECT GRANULAR FILL GRADATION	
Sieve Size Designation	Percentage Passing by Weight
4 in.	100
No. 40	0-70
No. 200	0-15

2. **Exception.** When used as backfill for Corrugated Aluminum Pipe, Type 1R (Spiral Rib Pipe) 100% of the material shall also pass the 2 in. sieve.

The gradation is evaluated at the project level.

C. DURABILITY. Provide materials substantially free of shale and soft, poor durability particles. Provide material having a Magnesium Sulfate Soundness loss less than 30%.

D. COMPOSITION. RAP shall not be used.

When used as backfill for aluminum pipe, the material shall be free of Portland cement or Portland cement concrete.

E. pH. Where the State elects to test for this requirement, the material shall have a pH in accordance with TABLE 733-11B *Select Granular Fill pH Requirement*.

TABLE 733-11B SELECT GRANULAR FILL pH REQUIREMENT		
Property	Test Method	Acceptance Criteria
pH	NYSDOT GTM-24	$5 \leq pH \leq 10$

When RCA is used as backfill in a non-aluminum pipe application, the pH requirements are waived.

BASIS OF APPROVAL. Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

HANDRAILS

WORK

Under this item the Contractor shall furnish all labor, equipment, materials and incidentals necessary or required to install steel pipe handrails in accordance with the plans and specifications and at the directions of the Engineer.

MATERIAL

Handrails shall be 1-1/2" O.D. nominal steel pipe rail, ornamental grade tubing. All joints are to be field welded and ground smooth. All railings to be mounted as per drawings of as directed by Engineer.

SURFACE PREPARATION

Prior to painting, all metal shall be cleaned with Surf-Etch 108 Rustoleum. All grease, oil and chemicals effecting priming and painting shall be removed.

APPLICATION

The manufacturer's recommendations for handling, thinning, applying coatings, and re-coat intervals, shall be followed. New York shall be performed when temperature and humidity conditions are outside the limitations stated by the coatings manufacturer.

FINISH

All rails shall be primed and painted with Benjamin Moore, Pittsburgh Paint Rustoleum Tremic or equal products. Minimum dry film thickness as herien specified shall hold precedence over what ever recommendations are made for suppliers products.

Shop Primer: one coat of #92 Inorganic Theme-Zinc @ 3.0 Mils min. dry thickness

Touch up primer: one coat, by brush, of #93 Primer organic Zinc-Rich

Finish Coat: Shall be two (2) coats winter green high gloss exterior oil base enamel metal paint dry film thickness 4.5mils.

SHOP DRAWINGS

Must be submitted to the Engineer for approval prior to Contractor's construction and installation of handrail. Samples of the railing and paint color must be provided.

MEASUREMENT AND PAYMENT

The price bid for the construction and installation of handrails and fittings shall be a lump sum price bid in accordance with the plans and specifications and directions of the engineer.

The linear foot bid shall be complete and shall include the cost of furnishing all labor, materials (including sleeves, field welding, joint grinding and priming and painting) and equipment and any incidentals necessary or required to complete the work to the satisfaction of the Engineer.

BID PROPOSAL
PROPOSED STATION ROAD CULVERT REPLACEMENT PROJECT
IRVINGTON, NY

Name of Bidder _____ Email: _____
 Address _____ Telephone: _____
 City, State Zip _____ Fax: _____

Note: The Lump Sum and Unit Price amount is to be written in both words and numbers. In case of discrepancy, the amount shown in words shall govern. The price shall be in dollars and cents. The Lump Sum amount shall include all labor, materials, equipment, services, etc. required to complete the work in accordance with the Plans, Specifications and all other Contract Documents within the specified completion date

SECT	BID ITEM	UNIT	EST. QUANT.	UNIT PRICE (IN NUMBERS)	UNIT PRICE (IN WORDS)	TOTAL PRICE
BBC	Bituminous Base Course	TN	60			
BBGR	Box Beam Guide Rail	LF	45			
BTC	Bituminous Top Course	TN	40			
CC	Concrete Curbs	LF	150			
CGR	Clearing, Grubbing, and Removals (Including trees less than 8 inches)	LS	LS			
CPP	Furnish and Install Corrugated Polyethylene Pipe (12" Diam)	LF	40			
CS	Concrete Structure (Catch Basins)	EA	3			
CSG	Furnish and Place Crushed Stone & Gravel (Item 304.14)	CY	100			
CSG	Furnish and Place Crushed Stone & Gravel (Select Fill, NYSDOT 203.06)	CY	30			
CSG	Furnish and Place Crushed Stone & Gravel (3/4 inch gravel)	CY	20			
DF	Dense Fill	CY	40			

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SECT	BID ITEM	UNIT	EST. QUANT.	UNIT PRICE (IN NUMBERS)	UNIT PRICE (IN WORDS)	TOTAL PRICE
DIF	Furnish and Install Ductile Iron Fittings (8 inches)	LBS	900			
DIF	Furnish and Install Ductile Iron Fittings (12 inches)	LBS	900			
DIP	Furnish and Install Ductile Iron Pipe (8 inches)	LF	50			
DIP	Furnish & Install Ductile Iron Pipe (12" sewer)	LF	50			
DW	Dewatering	NP	NP	NP	NON-PAYMENT	NON-PAYMENT
ECD	Furnish, Install, and Maintain Sediment and Erosion Control Devices	LS	LS			
FIV	Furnish & Install Gate Valves	EA	2			
HR	Furnish and Install Hand Rail	LS	LS			
LS	Landscaping	ALLOW	ALLOW	\$5,000.00	Five-Thousand	\$5,000.00
MEE	Miscellaneous Earth Excavation	CY	50			
MPT	Maintenance and Protection of Traffic	LS	LS			
PCBC	Furnish and Install Precast Concrete Box Culvert (culvert section)	LS	LS			
PCBC	Furnish and Install Precast Concrete Box Culvert (wing walls and headwalls section)	LS	LS			
PM	Pavement Markings (Epoxy 4")	LF	280			

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SECT	BID ITEM	UNIT	EST. QUANT.	UNIT PRICE (IN NUMBERS)	UNIT PRICE (IN WORDS)	TOTAL PRICE
PM	Pavement Markings (Epoxy 12")	LF	24			
PVCS	Furnish and Install PVC Sewer Pipe and Fittings (12" Diam)	LF	50			
R	Restoration	NP	NP	NP	NON-PAYMENT	NON-PAYMENT
RER	Rock Excavation and Removal	CY	30			
RR	Rip Rap	SY	120			
SCP	Saw Cutting Pavement	NP	NP	NP	NON-PAYMENT	NON-PAYMENT
SM	Sewer Manholes	EA	2			
TB	Thrust Blocks	CY	20			
TR	Tree Removal (Greater than 8 inches)	EA	4			
TRP	Tree Protection & Site Features to remain	NP	NP	NP	NON-PAYMENT	NON-PAYMENT
TSS	Furnish and Install Topsoil and Seed	SF	850			
UFG	Unclassified Excavation, Filling and Grading (import)	CY	20			
TOTAL BASE BID						

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CON EDISON GAS WORK						
SECT	BID ITEM	UNIT	EST. QUANT.	UNIT PRICE (IN NUMBERS)	UNIT PRICE (IN WORDS)	TOTAL PRICE
	Con Edison Gas Work (fixed price lump sum)	LS	LS	\$149,405.38	One hundred forty-nine thousand, four hundred and five dollars and thirty-eight cents.	\$149,405.38
TOTAL CON EDISON WORK						\$149,405.38

BASE BID AND CON EDISON TOTALS	
TOTAL BASE BID	
TOTAL CON EDISON WORK	\$149,405.38
COMBINED TOTAL	

The total bid shall be the sum of the extensions (unit price multiplied by estimated quantity, for each item). It is stated here only as a convenience for comparison of bids. If there are any errors in addition or multiplication, the unit prices for each item shall govern, and the bid comparison will be made on the basis of correct arithmetic applied to these unit prices. In case of a discrepancy between the unit price in words and the unit price in numbers, the unit prices in words shall govern. The estimated quantities are not guaranteed and are only for bid comparison purposes and final payment will be made for actual quantities regardless of the estimated quantities contained herein.

The contractor is further advised that the estimated quantities shown in the Bid Sheets may be reduced or deleted in order to insure that this Contract can be completed within the budget established for this work. In the event that certain work is deleted or reduced, the Unit Price Bid shall remain in effect for this work.