

**ITEM 662.8332 25 - INSTALL PLASTIC GAS MAIN PIPE OFF STRUCTURE (CON EDISON)**

**ITEM 662.8333 25 - INSTALL PLASTIC GAS MAIN PIPE OFF STRUCTURE (CON EDISON)**

**1. DESCRIPTION:**

1.01 This work shall consist of installing gas main pipe as well as associated fittings and/or connections at locations shown on the plans and as directed by the Engineer. Con Edison will install permanent and/or temporary gas main pipe as shown on the plans. The Contractor shall coordinate the work with Con Edison.

**2. MATERIALS:**

2.01 The gas main pipes, fittings, couplings and appurtenances shall be furnished by the Consolidated Edison Company. The contractor shall furnish all other material required for the installation including but not limited to, backfill sand, concrete and pavement. The material and their necessary construction details shall conform to the latest NYSDOT and Con Edison Specifications. The contractor shall notify the Consolidated Edison Company of the construction schedule at least thirty (30) days prior to the actual planned construction date. Should Con Edison fail to deliver the necessary material according to schedule, the New York State Thruway Authority shall not be responsible for any delays. It is the contractor's responsibility to inspect and unload the material immediately upon delivery and advise Con Edison promptly of all damaged material. Contractor shall visually inspect all pipes for defects and gouges. Any material damaged or lost after the contractor's inspection shall be replaced by the contractor at his own expense.

**3. CONSTRUCTION DETAILS:**

3.01 The contractor shall install gas main pipe as shown on the NYSTA contract plans as well as Con Edison's associated drawings and specifications as directed by the Engineer. Con Edison shall be notified at least 48 hours prior to the construction.

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The nature of work is such that certain specified requirements of the Consolidated Edison Company of New York, 1615 Bronxdale Avenue, Bronx, New York 10462, shall be followed. The contractor is responsible for obtaining copies of Con Edison's specifications and plans as necessary. Installation of gas main shall be in accordance with Con Edison Company Specification G-8005 "General Specification for the Installation of Gas Distribution Mains" and its listed associated specifications and drawings. Con Edison shall approve all deviations from the trench width and depth as documented in the contract documents for the installation of the gas main. Tracer wires shall be installed on all plastic main.

All PE pipe joints shall be joined by heat fusion except where otherwise indicated. Pipe line butt fusion shall be performed in accordance with Con Edison Specifications. This work shall also include the welding of valves, gas stopping/vent devices and by-passes as deemed necessary by Con Edison.

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All welders and PE pipe fusers shall have in their possession the appropriate current Con Edison Welder or Plastic Pipe Certification.

All steel pipe welds shall have 100 % X-ray examinations. Radiographic inspection shall be in accordance with Con Edison Specifications G-1066 and G-1070. This work shall be performed by the contractor. The contractor shall install all cathodic protection equipment and associated material. All field coating of pipes and appurtenances shall be performed as per Con Edison Specification G-8209 "Field Coating of Steel Gas Pipe and Fittings Installed Underground and in Subsurface Structures". Valves and irregular surface pipe fittings shall be coated with hot coal tar enamel. Hot tar coating contractor shall be pre approved by the Con Edison Company. The contractor shall pressure test all piping after construction prior to tie-in. Pressure test shall be performed in accordance with Con Edison Specification. Weld end or PE caps shall be used for the tests. Any defects found shall be corrected by the contractor in a manner acceptable to Con Edison and the Engineer at no additional cost. Con Edison shall perform all live work. The contractor shall be responsible for notifying Con Edison when the connection to the existing gas main is completed. The New York State Thruway Authority accepts no responsibility for

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delays or any other construction problems, which might arise from the failure of the utility to make the connection in accordance with the contractor's construction schedule. After the gas main pipe is fused and welded, X-ray tested, installed and pressure tested, backfill sand shall be installed and compacted around the pipe. Cathodic protection acceptance testing shall be performed by Con Edison prior to live tie-in work. If this test fails, the contractor shall make all necessary corrections at no additional cost. Excavation and backfill shall be in accordance with the provisions of Item 206.04 of the NYSDOT Standard Specifications and any installation requirements by the Company as directed by the Engineer.

**4. METHOD OF MEASUREMENT:**

4.01 Payment will be made at the lump sum price bid for the pipe installed in accordance with this specification.

**5. BASIS OF PAYMENT:**

5.01 The lump sum price bid shall include the cost of all labor, equipment and materials (other than material furnished by Con Edison) necessary to complete the work as shown on the plans, in accordance with the Con Ed specifications, and as directed by the Engineer, including excavation, backfill materials, laying of pipe, valves, appurtenances, restoration and the cost of replacing any materials lost or damaged by the contractor.

Con Edison will be responsible for performing tie-in work to existing gas mains. Tie-in work is not included in this item.

Monthly payment will be made for this work in proportion to the amount of work completed.

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No payment will be made for work specifically excluded from payment by the terms of this item.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay</u>	<u>Unit</u>
662.8332 25	Install Plastic Gas Main Pipe (Con Edison)	LS	
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