**SECTION 335103X - NATURAL GAS DISTRIBUTION**

**PART 1 – GENERAL**

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Standard Provisions/Interim Standard Provisions for Construction Contracts - Volume 1, December 1993, and Technical Provisions apply to the Work of this Section.

1.2 SCOPE

1. The work covered by this section includes the furnishing of all materials and equipment and the performing of all labor to complete the Natural Gas Distribution as shown on the Contract Drawings and as herein specified or directed by the Engineer.
2. The Engineer is responsible for contacting the Baltimore Gas and Electric Company (BGE) prior to development of plans to verify availability of natural gas supply for this project. The Engineer shall also provide BGE with estimated gas load calculations and minimum service pressures required.
3. BGE will provide and install new natural gas service main, meter with pressure regulator assembly on site and connection to existing gas main.
4. Contractor shall be responsible for pavement removal and repair, maintenance of traffic and for all coordination between BGE and the Project. ·

1.3 RELATED SECTIONS

1. The following sections in this document contain requirements that relate to this Section:
2. Section 312300 - "Excavation and Fill"

1.4 SEQUENCING AND SCHEDULING

1. Coordinate gas main installation on-site and connection to existing gas main with BGE.
2. Coordinate with other utility work.
3. BGE estimates it will take approximately working days to complete the gas main installation.

**PART 2 - PRODUCTS**

2.1 MANUFACTURERS

1. Materials for natural gas piping system including pipe, valves, meter, pressure regulators, and specialties will be provided by BGE.
2. Bedding material meeting requirements of AASHTO M6-81 shall be furnished by BGE.
3. Concrete pad for meter station at building will be constructed by the Contractor after verifying dimensions required with BGE.

**PART 3 - EXECUTION**

3.1 GENERAL

A. The Contractor shall notify BGE three months prior to start of work in area around the proposed building gas service mains. Contact with BGE shall be made through:

Mr. Kevin Kline

Baltimore Gas and Electric Company

(443) 668-3279

B. The Contractor shall coordinate all necessary pavement removal and repairs.

C. The Contractor shall provide a secure area near the construction site for BGE to store materials and equipment.

3.2 INSTALLATION

1. See Section 312300 for requirements of excavation, backfill, and pavement repair.
2. The Contractor shall be responsible for pedestrian and traffic control during installation of the new gas main piping by BGE.
3. Drawings indicate general alignment for the gas main. The Contractor is responsible for coordination of the new gas main with other utilities and between different construction phases of the project.

3.3 FIELD QUALITY CONTROL

A. BGE shall verify that entire gas distribution system has been inspected, tested, and purged by BGE according to NFPA 54, Part 4 "Gas Piping Inspection, Testing, and Purging" and local gas utility company requirements.

B. Report test results in writing to the Engineer and the authorities having jurisdiction.

1. Verify that specified piping tests are complete.

C. Refer to Item X-4 - Construction Quality Control Plan.

·PART 4 - MEASUREMENT

**4.1 METHOD OF MEASUREMENT**

A. No direct measurement will be made for Pay Item "BGE Gas Service Cost Allowance" and Pay Item "Contractor Gas Service Support Work Allowance" as payment will be made on actual cost basis. Measurement of gas pipe demolition shall be made on a linear foot basis. Demolition of gas pipe shall include excavation and backfill, and other incidental items shown on the plans.

**PART 5- PAYMENT**

5.1 BASIS OF PAYMENT

1. Payment for the demolition of gas pipe will be made based on the accepted quantities of piping removed at the contract unit price.
2. Payment for the Pay Item "BGE Gas Service Cost Allowance" will be made to the Contractor on the basis of actual costs billed (as shown on utility invoices) by BGE plus Contractor's overhead and profit as defined in Article SP-9.04. Partial payments will be made out of the allowance amount as bills are received from the utilities. The Contractor shall furnish proof to the Engineer that utility payments have been made after he receives payment from MAA. The Contractor shall include the figure indicated in· the proposal form in his bid for this item. The Contractor will not be entitled to any unspent or non-approved portion of monies from this allowance.
3. Payment for the Pay Item "Contractor Gas Service Support Work Allowance" will be made to the Contractor on the basis of actual costs billed (as shown on invoices submitted by the Contractor and approved by the Engineer) plus Contractor's overhead and profit as defined in Article SP-9.04. Partial payments will be made out of the allowance amount as bills are submitted and approved with each Application for Payment, which shall include all materials and labor for pavement demolition, disposal, and replacement, assisting BGE with pipe installation, coordination, and all incidentals necessary to complete this work. The Contractor shall include the figure indicated in the proposal form in his bid for this item. The Contractor will not be entitled to any unspent or non-approved portion of monies for this allowance.

D. Payment will be made under:

Item 3335100X-5.1 Demolition of Gas Piping – per linear foot

Item 012100-5.1 BGE Gas Service Cost Allowance

Item 012100-5.2 Contractor Gas Service Support Work Allowance

**END OF SECTION 335103X**