

MEASUREMENT AND PAYMENT

1. **GENERAL:**

- 1.1 Document 01251 describes the measurement of and payment for work to be done under the respective items as listed in the bid.
- 1.2 The price bid in each instance shall constitute full compensation for furnishing, hauling, and installing complete all materials; for clearing, excavation, dewatering, dredging, and all necessary sheeting and bracing; for gravel and earth backfill and compaction; for diversion of stream of sewage flows; for removing and replacing curbs, gutters, sidewalks, property corners, signs, fences, lawns, waterlines, drain lines, and structures; for maintenance of drives and streets, protection of power and communication lines; for providing all barricades, lighting, and flagmen as required for the protection of the public; for all required insurance, taxes, utilities, supplies, services and transportation; for layout and control of work, cleanup and grassing; and for the furnishing of all equipment, tools, labor and incidentals, and the performance of all work to complete each item in full accordance with the Contract Drawings and Specifications.

2. **WATER LINES:**

2.1 **METHOD OF MEASUREMENT:**

- 2.1.1 Water lines, including fittings, but excluding portions of work covered by other lump sum or unit price bid items, will be measured by the linear foot of pipe of various sizes and classifications, without deduction for the space occupied by special fittings. Measurement of any section of pipe will be the actual measurement along the centerline from end to end of the section.

2.2 **BASIS OF PAYMENT:**

- 2.2.1 Water lines, installed and accepted, and measured as provided above, will be paid for at the contract unit price bid, per linear foot, for installing water pipe of the various sizes and classifications, including fittings, and depth of cut. The price and payment shall also constitute full compensation for pipe bedding, preparation of the pipe foundation, testing, clearing, excavation, backfill grassing and any required erosion control measures.

3. **WATER SERVICES:**

3.1 **METHOD AND MEASUREMENT :**

- 3.1.1 Water services, including lines, fittings, meter boxes and switching water meter to new service line, but excluding portions of work covered by other lump sum or unit bid price items, will be measured by actual count. Each unit consists of all items as detailed in the plans.

3.2 **BASIS OF PAYMENT:**

- 3.2.1 Services installed and accepted, and measured as provided above, will be paid for at the contract unit price bid.

4. **TAPPING SLEEVES & VALVES:**

4.1 **METHOD AND MEASUREMENT :**

4.1.1 Tapping sleeves & valves will be measured by actual count. Each unit shall consist of one (1) tapping sleeve and valve for the specified size and type, one (1) concrete valve marker (if called for), and one (1) valve box and cover and other items specified. The bid unit price shall include the installation of the necessary joint adapters for connections of the valves to the system.

4.2 **BASIS OF PAYMENT:**

4.2.1 Valves and boxes installed and accepted, and measured as provided above, will be paid for at the contract unit price bid, for valve and box of each size and type. The price and payment shall also constitute full compensation for testing and disinfecting.

5. **VALVES:**

5.1 **METHOD AND MEASUREMENT :**

5.1.1 Valves and boxes will be measured by actual count. Each unit shall consist of one (1) valve for the specified size and type, one (1) concrete valve marker (if called for), and one (1) valve box and cover and other items specified. The bid unit price shall include the installation of the necessary joint adapters for connections of the valves to the system.

5.2 **BASIS OF PAYMENT:**

5.2.1 Valves and boxes installed and accepted, and measured as provided above, will be paid for at the contract unit price bid, for valve and box of each size and type. The price and payment shall also constitute full compensation for testing and disinfecting.

6. **ANCHOR TEES, BENDS AND MISCELLANEOUS FITTINGS:**

6.1 **METHOD AND MEASUREMENT :**

6.1.1 Anchor tees, bends and miscellaneous fittings will be measured by actual count. Each unit shall as specified in the Bid for the size and type indicated. The bid unit price shall include all necessary ancillary items for a complete installation.

6.2 **BASIS OF PAYMENT:**

6.2.1 Anchor tees, bends and miscellaneous fittings installed and accepted, and measured as provided above, will be paid for at the contract unit price bid, for each size and type. The price and payment shall also constitute full compensation for testing and disinfecting.

7. **FIRE HYDRANT ASSEMBLIES:**

7.1 **METHOD AND MEASUREMENT :**

7.1.1 Fire hydrant assemblies will be measured by actual count. Each unit shall consist of the hydrant, gate valve with box, lead from the water main, hydrant tee, tie rods, stone, blocking, one (1) concrete valve marker (if called for), and other fittings or items needed to make the installation complete.

7.2 **BASIS OF PAYMENT:**

7.2.1 Fire hydrant assemblies installed and accepted, and measured as provided above, will be paid for at the contract unit price bid, for fire hydrant assembly. The price and payment shall also constitute full compensation for installation of any necessary adapters for connecting into the system, testing and disinfecting.

8. **END OF LINE HYDRANT ASSEMBLIES:**

8.1 **METHOD AND MEASUREMENT :**

8.1.1 End of line hydrant assemblies will be measured by actual count. Each unit shall consist of the hydrant, gate valve with box, tie rods, stone, blocking, one (1) concrete valve marker (if called for), and other fittings or items needed to make the installation complete.

8.2 **BASIS OF PAYMENT:**

8.2.1 Fire hydrant assemblies installed and accepted, and measured as provided above, will be paid for at the contract unit price bid, for end of line hydrant assembly. The price and payment shall also constitute full compensation for installation of any necessary adapters for connecting into the system, testing and disinfecting.

9. **CUT AND PATCH ASPHALT PAVEMENT:**

9.1 **METHOD AND MEASUREMENT :**

9.1.1 Cutting and patching asphalt pavement will be measured by the linear foot as measured along the centerline of the pipe.

9.2 **BASIS OF PAYMENT:**

9.2.1 Cutting and patching asphalt pavement will be paid for at the unit price bid per linear foot of the various types of pavement. The price shall include all costs for cutting and removing existing pavement and replacing with new base and pavement.

10. **CUT AND PATCH DRIVEWAYS:**

10.1 **METHOD AND MEASUREMENT :**

10.1.1 Cutting and patching driveways will be measured by the linear foot as measured along the centerline of the pipe.

10.2 **BASIS OF PAYMENT:**

10.2.1 Cutting and patching driveways will be paid for at the unit price bid per

linear foot of the various types of driveways. The price shall include all costs for cutting and removing existing driveway and replacing with new base and pavement, or concrete.

11. REMOVE AND REPLACE SIDEWALKS:

11.1 METHOD AND MEASUREMENT :

11.1.1 Removal and replacement of sidewalks will be measured by the linear foot as measured along the centerline of the pipe.

11.2 BASIS OF PAYMENT:

11.2.1 Removal and replacement of sidewalks will be paid for at the unit price bid per linear foot of the sidewalks. The price shall include all costs for cutting and removing existing sidewalk and replacing with new base and concrete.

12. JACK AND BORE:

12.1 METHOD AND MEASUREMENT :

12.1.1 Casing pipe will be measured by the linear foot of pipe along the centerline from end to end of the section. In cases where casing pipe is not being used, carrier pipe will be measured by the linear foot installed in bore from end to end of the section.

12.2 BASIS OF PAYMENT:

12.2.1 Casing pipes installed and accepted, and measured as provided above, will be paid at the contract unit price bid, per linear foot, for installing the casing pipe and carrier pipe therein. The price and payment shall constitute full compensation for jacking, boring and installation of pipe.

(End of Document 01250)