

SECTION 01075

BASIS OF PAYMENT

PART 1: GENERAL

1.01 SCOPE

Work to be performed under this Contract shall be paid for in accordance with the "Schedule of Prices" of the bid which may be as Contract Unit Prices per Section 1.02 or as a Lump Sum Pricing for Labor, Materials, Restoration, and Paving per the Owner.. The cost of labor, equipment, materials or work called for in the Specification, shown on the Drawings, or necessary for a complete and satisfactory installation, but which are not specifically mentioned in this Section shall be included in the appropriate pay item by the Contractor at no additional expenses to the Owner.

Missouri-American Water Company will operate all existing valves and newly installed tap valves and dead end connection valves as required by the local Missouri American Water District requirements, and perform the bacteriological analysis for the contractor. Water Quality Samples will be collected by a Missouri-American Water Company representative. The CONTRACTOR must have a representative present for each sample taken and also furnish any labor, equipment, materials, and traffic control.

1.02 PAYMENT ITEMS

The prices shown in the "Schedule of Prices" of the Bid include all costs to construct the pipeline (s) under this Contract. Final payment will be made on the in place measurement of items in accordance with their respective units installed.

1. Mobilization Line Charge
 - a) Payment will be made at the Contract Unit Price per lump sum (LS) for the Mobilization Line Charge. The lump sum price bid for Mobilization is limited to a maximum of 5% of the Total Bid Price. The work shall consist of the assembling and setting up for the project, including but not limited to the Contractor's general plant, including Contractor's general offices, bonds, insurance, shops, plants, storage areas, temporary signs, sanitary and any other facilities, as required by the Specifications Section 1500 Temporary Facilities, and special requirements of the Contract, as well as by local or State Law and regulation. The cost of any other initial expense required for the start of work will be included in the item.
 - b) Mobilization Line Charge will be payable to the Contractor whenever the Contractor shall have completed five percent (5%) of the work of the Contract. For the purposes of this item five percent (5%) of the work shall be considered completed based upon the total of payments earned, exclusive of the amount bid for this item, as shown on the monthly billing of the approximate quantities of work done.

2. Pipeline Installation-(Labor- Materials)

a) Water Main Pipe

Payment will be made at the Contract Unit Price per linear foot (LF) for each type and size of pipe, complete in place. The Contract Unit Price shall include the furnishing of all pipe material and pipe fittings (except where materials are furnished by the Owner), labor, equipment, and excavation to install water main and fittings. Included in this unit price is all utility locations, photo logging, excavating, shoring and bracing, pipe, pipe fittings, concrete thrust restraint blocking, polywrap, tracer wire, special gaskets, restrained joint gaskets, restrained gland rings, adapters, identification tape, native backfill, rough grading, clearing and grubbing, pressure testing, sterilizing, utility pole support, utility concrete supports (if necessary), and all other miscellaneous or incidental work to complete the project as specified in the contract documents and shown on the plans but not described under any other payment terms. Both push-on joint and restrained joint water mains shall be included on this item. Different types, i.e. restrained joint and size of water main shall have a separate unit price listed under numerical sub-terms (i.e. Item 1a1 24" D.I. TR-Flex, Item 1a2 20" D.I. Push On, Item 1a3 8" PVC 900 Push On).

NOTE:

- **Clearing and grubbing is included under this item.**
- **The actual number of lineal feet of water main will be measured for payment. The length of water main shall be measured from the point of beginning to the point of end without regard to the length of fittings and valves.**

3. Fittings (Labor – Materials)

- a) All necessary fitting labor and materials will be incidental to the price of associated pipe labor and materials. No separate payment will be made for fitting labor and materials (except valve fittings).

4. Valve Installation (Labor – Materials)

- a) Payment will be made at the Contract Unit Price per each (EA) for each new valve complete in place. Unit price shall include all labor, materials (except where materials are furnished by the Owner), valve fittings, restrained joint gaskets, restrained gland rings, adapters, accessories, excavation and native backfilling, valve box, tools all incidental work required to install each valve complete as shown on the drawings, as specified and necessary to make a complete and satisfactory installation.

5. Fire Hydrant Installation (Labor – Materials)

- a) Fire Hydrant Installation: Payment will be made at the Contract Unit Price per each (EA) for fire hydrant installation. The Contract Unit Price shall include all labor, materials (except where materials are furnished by the Owner), excavation and native backfill, drainage area granular fill, tools, and incidental work required to install each hydrant and support blocking, and joint restraint as shown on the drawings, all as required by Specification Section 15181, as necessary to make a complete and satisfactory installation.
- b) Fire Hydrant Removal: Payment will be made at the Contract Unit Price per each (EA) for fire hydrant removals. The Contract Unit Price shall include all labor, materials (except where materials are furnished by the Owner), excavation and native backfill, tools, and incidental work required to remove each hydrant as shown on the drawings to be removed.
- c) Steel Pipe Bollard: Payment will be made at the Contract Unit Price per each (EA) for steel pipe bollard. The Contract Unit Price shall include all labor, materials (except where materials are furnished by the Owner), excavation and native backfill, tools, support concrete and incidental work required to install steel pipe bollards in locations designated by the Owner, all in accordance with Specification Section 15181-Fire Hydrants, and Standard Detail 0201-0601-SD34.

6. Casing Installation (Labor – Materials)

- a) Payment will be made at the Contract Unit Price per lineal foot (LF) of casing installed by any of the methods described in and according to Specification Section 2220, Part 3.06. Location to be shown on the Drawings or as directed by the Owner. The Contract Unit Price shall include all casing pipe, end boots, spacer insulators, strapping, skids, specials, anchors, harnesses, etc. (except where furnished by Owner) as required by Specification Section 2220 or as necessary for a complete and satisfactory installation. In addition the Contract Unit Price shall include all excavation in soil, de-watering, native backfilling, installation of end caps, sheeting, bracing, shoring, temporary construction, safety measures and all as necessary for a complete and satisfactory installation. The Contract Unit Price will also include all measures required to protect roadways, railroad tracks and embankments from settlement or damage of any type. **DOES NOT INCLUDE THE WATER MAIN CARRIER PIPE.**

7. Concrete Placement (Labor – Materials)

- a) Thrust Blocking. All necessary thrust/ reaction blocking will be incidental to the price of associated pipe labor and materials. No separate payment will be made for thrust/ reaction blocking. All cast in place concrete to conform to Specification Section 3300. This item does not include pavement concrete or pipe bollard concrete.

8. Air Release Valve Installation (Labor – Materials)

- a) Payment will be made at the Contract Unit Price per each (EA) for each air release valve assembly installed, complete in place. Unit price shall include all labor, materials (except where materials are furnished by the Owner), excavation and native backfilling, tools, furnishing and installing manhole frames and covers, ladders, painting; the furnishing, installing and testing of all piping, valves, air valves, fittings, small piping and piping appurtenances and all incidental work required to construct each structure complete as shown on the drawings, as specified and necessary to make a complete and satisfactory installation and in accordance with Specification Section 15191.

9. Blow Off Assembly (Labor – Materials)

Payment will be made at the Contract Unit Price per each (EA) for Blow off assembly, complete in place. Contract Unit Price shall include all labor, materials (except where materials are furnished by the Owner), excavation and native backfilling, tools, and all incidental work required to construct each blow off assembly complete as shown on the design drawings, or as specified on drawing 0201-0601-SD1 to make a complete and satisfactory installation.

10. Service Line Transfer (Labor – Materials)

- a) Payment will be made at the Contract Unit Price per each (EA) for the installation of each of the following:
 - 1. Service Transfers New and Renewal
 - 2. Short Side Service Line, New or Renewal
 - 3. Long Side Service Line, New or Renewal

All of the above include complete installation in place including permanent restoration. Service transfers include installation of corporation and connection of existing service line shall be either union or length of pipe and union. Short side service lines, new or renewal include complete installation of service line from corporation to curb stop/ property line and connection or re-connection of customers' line on outlet side of curb stop or at property line. This includes those services whose length are less than $\frac{1}{2}$ the improved road width where services are on the same side of roadway as the main installation. Long side service lines, new or renewal include complete installation of service line from corporation to curb stop/ property line and connection or re-connection of customers' line on outlet side of curb stop/ property line. Includes those services whose length equal or exceed $\frac{1}{2}$ of the improved road width where services are on the opposite side of roadway of the main installation. Curb stops will normally be installed in the tree space or at the property line as per local district requirements. All installations shall be in accordance with Specification Section 15200 or 15205. Payment will be made under only one bid item per water service.

- b) Payment will be made at the Contract Unit Price per each (EA) for pothole investigation of existing water services as directed by the

Engineer. The Contract Unit Price shall include all labor, material, and equipment to conduct the investigation to determine water service line material and shall also include restoration of existing ground or pavement. Payment will be made under only one bid item per water service investigated.

11. Extra Depth Excavation

- a) When required by site conditions and as directed by the Engineer/Owner, payment for excavation in soil deeper than specified limits will be made at the Contract Unit Price per cubic yard (CY) for extra excavation. The Contract Unit Price shall include all labor, materials, and equipment for the required excavation as directed. Normal trench dimensions to be in accordance with the requirements of Specification Section 2210, Part 3.05, Paragraph D and F.

12. Rock Excavation

- a) When required by site conditions and as directed by the Engineer/Owner, payment for rock excavation will be made at the Contract Unit Price per cubic yard (CY) for the approved quantity of rock excavated. No payment will be made for excavation made outside the limits described in Specification Section 2210, Part 3.05, Paragraph D and F. Contract Unit Price shall include removal, hauling and proper disposal of all material. Rock is defined as per Specification Section 2210, Part 3.05, Paragraph B. For Directional Boring Jobs, payment will be made at the Contract Unit Price per Linear Foot (LF) of the boring in which rock or cobble is encountered which is approved by the engineer.

13. Aggregate Backfill

- a) Payment will be made at the Contract Unit Price per Ton for the specified type of aggregate in place where required. No payment will be made for aggregate placed outside the maximum normal trench width as described in Specification Section 2210, Part 3.05, Paragraph D. If for any reason the trench width exceeds the maximum trench width defined in Paragraph D above, the Contractor shall provide the additional aggregate for bedding and backfilling at no cost to the Owner as described in Specification Section 2210, Part 3.05, Paragraph E. The Contract Unit Price shall also include the removal, hauling and proper disposal of all excavated material.

14. Flowable Backfill

- a) Payment will be made at the Contract Unit Price per cubic yard (CY) of the specified psi class of flowable backfill in place where required. No payment will be made for flowable fill needed outside the maximum normal trench width as described in Specification Section 2210, Part 3.05, Paragraph D. If for any reason the trench width exceeds the maximum trench width defined in Section 2210, Part 3.05, Paragraph D, the Contractor shall provide the additional

flowable fill for backfilling at no cost to the Owner as described in Specification Section 2210, Part 3.05, Paragraph E. This pay item also includes the removal, hauling and proper disposal of all excavated material.

15. Permanent Pavement Restoration

- a) Payment will be made at the Contract Unit Price per square foot (SF) of trench permanently paved as required. The contract price will include the furnishing and installation of permanent pavement material in accordance with Specification Section 2610 or as otherwise required by Federal, State or Local Authorities. This bid item includes saw cutting, base preparation, base course, wearing course and striping, if required. Different pavement types, i.e. Concrete or Asphalt Street Paving, Driveway Paving, or Sidewalks shall have a separate unit price listed under numerical sub-terms.

16. Curb Restoration

- a) Payment will be made at the Contract Unit Price per linear foot (LF) for the type of curbing installed. The unit price shall include excavation, stone bedding, concrete, asphalt and finishing, backfilling, complete in place and conforming to the requirements of Specification Section 3300 and/or any municipal or state requirements that may apply. If both asphalt and concrete curbs are needed, then a separate unit price listed under numerical sub-terms.

17. Topsoil (minimum 4")

- a) Payment will be made at the Contract Unit Price per square foot (SF) of topsoil complete in place. All in accordance with the requirements of Specification Section 2820 Lawn Restoration. Unit price shall include all labor, materials, excavation and native backfilling, tools, and all incidental work required to install topsoil as shown on the drawings, as specified and necessary to make a complete and satisfactory installation.

18. Filter Fabric

- a) Payment will be made at the Contract Unit Price per square yard (SY) in place as directed by the Owner. The unit price will include the furnishing and installation of filter fabric as described in Specification Section 2210, Part 2.04. Payment will be made at the unit price per square yard of the installed contact surface of the filter fabric with the trench bottom and sides. Filter fabric required for fire hydrants is not included under this line item.

19. Seed & Straw

- a) Payment will be made at the Contract Unit Price per square foot (SF) for seed and straw complete in place, all in accordance with the requirements of the Specification Section 2820 Lawn Restoration. Unit

price shall include all labor, materials, tools, and all incidental work required in installing seed, straw and fertilizer as shown on the drawings, or as specified and necessary to make a complete and satisfactory installation.

20. Sod

- a) Payment will be made at the Contract Unit Price per square foot (SF) of sod, complete in place, all in accordance with the requirements of Specification Section 2820 Lawn Restoration. Unit price shall include all labor, materials, raking and grading, tools, and all incidental work required to install sod as shown on the drawings, or as specified and necessary to make a complete and satisfactory installation.

21. Marker Post (Labor – Materials)

- a) Payment will be made at the Contract Unit Price for each (EA) post installed in place as authorized by the Owner. The unit price will include all materials (except where materials are furnished by the Owner) and labor necessary for a complete installation in accordance with Specification Section 15000, Part 3.03 paragraph D.

22. Sediment Control

- a) Silt Fence: Payment will be made at the Contract Unit Price per lineal foot (LF) of silt fencing complete in place. All in accordance with the requirements of Specification Section 2540 Erosion and Sedimentation Control. Unit price shall include all labor, materials, raking and grading, tools all incidental work required to install, remove and restoration of silt fencing as shown on the drawings, as specified and necessary to make a complete and satisfactory installation.
- b) Straw Bales: Payment will be made at the Contract Unit Price per each (EA) for straw bale complete in place. All in accordance with the requirements of Specification Section 2540 Erosion and Sedimentation Control, Unit price shall include all labor, materials, raking and grading, tools all incidental work required to install, remove, and restoration of straw bales as shown on the drawings, as specified and necessary to make a complete and satisfactory installation.

23. Traffic Control

- a) Payment will be made at the Contract Unit Price lump sum (LS) for traffic control where required or directed by the Owner in accordance with the requirements of Specification Section 1570 Traffic Regulations. This pay item does not include Police Services.

24. Surveying, Staking, and Permitting

- a) Payment will be made at the Contract Unit Price lump sum (LS) for pass through costs for required survey stakeout to establish right-of-way and property boundaries as well as any water company or other private easements.
- b) Payment will be made at the Contract Unit Price lump sum (LS) for pass through costs associated with any required permit from a regulatory agency i.e. Federal, State, County, or Municipality.
- c) This pay item does not include any agreement Contractor may make with a private landowner for the purposes of material or equipment storage. The cost of such agreements shall be at the sole responsibility of the contractor and no separate payment shall be made.

PART 2: PRODUCTS

Not Used

PART 3: EXECUTION

Not Used

END OF SECTION