
Special Specification 7199

Special Specification for Water & Wastewater Main Replacements and Adjustments



1. DESCRIPTION

Furnish and install all materials, equipment, and labor listed in the "*SPECIAL SPECIFICATIONS FOR WATER & WASTEWATER MAIN REPLACEMENTS AND ADJUSTMENTS*", DWU CONTRACT NO. 19-201/202F, in Dallas, Texas, herein known as the Document and all materials shown on the plans.

A paper copy of the Document can be obtained at the Dallas Water Utilities Department, 2121 Main St. #500, Dallas, Texas 75201, telephone (214) 948-4556. The Document is also in the plan set (CSJ: 0092-01-052, Etc.).

2. MATERIALS

Install piping systems using the materials designated on the plans and in details shown for each particular system. Furnish materials so designated in accordance with all material requirements of the attached Document.

3. CONSTRUCTION METHODS

Perform work in a manner consistent with the Document (Section C - Water Utilities Special Provisions, Bid Items, Specifications and Part T - Technical Specifications; and the following Specifications, Addendums and Standards necessary to perform the work:

3.1 The General Specifications (Standard Specifications for Public Works Construction - North Central Texas Council of Governments - Fourth Edition – 2004). A copy of the Standard Specifications for Public Works Construction may be obtained from the North Central Texas Council of Governments, 616 Six Flags Drive, Arlington, Texas 76011, Telephone (817) 640-3300.

3.2 City of Dallas ADDENDUM to the Public Works Construction - North Central Texas Council of Governments - Fourth Edition - 2004, Latest Edition - A copy of the City Dallas ADDENDUM to the NCTCOG General Specifications can be obtained at:

https://dallascityhall.com/departments/waterutilities/DCH%20Documents/pdf/2011-COD_NCTCOG_addendum.pdf

3.3 Part "T" Technical Specifications will reference a copy of the DWU Standard Technical Specifications for Water and Wastewater Construction, Latest Edition can be obtained at:

https://dallascityhall.com/departments/waterutilities/DCH%20Documents/pdf/DWU-PRO-022-ENG_DWUStandardTechnicalSpecificationsForWaterAndWastewaterConstruction.pdf

- 3.4 DWU Water Utilities Standard Drawings, Latest Edition - A copy of the City of Dallas Standard Drawings can be obtained at:
https://dallascityhall.com/departments/waterutilities/DCH%20Documents/pdf/DWU-PRO-019-ENG_DWUStandardDrawingsForWaterAndWastewaterConstruction.pdf
- 3.5 Occupational Safety and Health Standards - Excavations, 29 CFR Part 1926; effective January 2, 1990 (or Latest Edition).
- 3.6 A revised copy with Ordinance 29993 attached amending the Department of Public Works and Transportation Pavement Cut and Repair Standards Manual may be purchased from the Office of the Director of Public Works and Transportation, Public Works and Transportation Department, 320 E. Jefferson Boulevard, Room 307, Dallas, Texas 75203, or can be obtained at:
https://dallascityhall.com/departments/public-works/DCH%20Documents/Public%20Works/pdf/PavementCut-Repair_StandardsManual.pdf
- 3.7 A copy of the Department of Public Works and Transportation Standard Construction Details 251D; September 2002, or latest edition, can be obtained at:
https://dallascityhall.com/departments/public-works/DCH%20Documents/Public%20Works/pdf/standards_251D-1_signatures.pdf

4. MEASUREMENT

This Item will be measured as follows and as explicitly detailed in the Document for the following in Table 1:

Table1
DWU Items

| TxDOT NUM. | DWU NUM. | ITEM DESCRIPTION | UNITS |
|------------|----------|--|-------|
| 6001 | 1800H | 6" PVC Water Pipe | LF |
| 6002 | 1800J | 8" PVC Water Pipe | LF |
| 6003 | 1800K | 10" PVC Water Pipe | LF |
| 6004 | 1800L | 12" PVC Water Pipe | LF |
| 6005 | 2000S | 20" Bar-Wrapped Concrete Cylinder Pipe | LF |
| 6006 | 2000V | 24" Bar-Wrapped Concrete Cylinder Pipe | LF |
| 6007 | 2000Y | 30" Bar-Wrapped Concrete Cylinder Pipe | LF |
| 6008 | 2010SP | 20" Prestressed Concrete Cylinder Pipe | LF |
| 6009 | 2010V | 24" Prestressed Concrete Cylinder Pipe | LF |
| 6010 | 2010Y | 30" Prestressed Concrete Cylinder Pipe | LF |
| 6011 | 2100SX | 20" Extra Depth Water Pipe (+20) | LF |
| 6012 | 2100VX | 24" Extra Depth Water Pipe (+20) | LF |
| 6013 | 2100YX | 30" Extra Depth Water Pipe (+20) | LF |
| 6014 | 3110J | 8" PVC Pressure Rated Wastewater Pipe | LF |
| 6015 | 3110K | 10" PVC Pressure Rated Wastewater Pipe | LF |
| 6016 | 3110L | 12" PVC Pressure Rated Wastewater Pipe | LF |
| 6017 | 3120S | 20" PVC Pressure Rated Wastewater Pipe | LF |
| 6018 | 3120V | 24" PVC Pressure Rated Wastewater Pipe | LF |
| 6019 | 3420AC | 42" RTRP Wastewater Pipe | LF |
| 6020 | 3430AC | 42" HDPE Wastewater Pipe | LF |
| 6021 | 3700ACX | 42" Extra Depth Wastewater Pipe (+20') | LF |
| 6022 | 5050 | Water Service | EA |

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|------|---------|---|----|
| 6023 | 5080 | Reconnect Exist Water Service | EA |
| 6024 | 5091 | Install Fire Hydrant | EA |
| 6025 | 5092 | Remove Existing Fire Hydrant | EA |
| 6026 | 5093 | Deliver Fire Hydrant | EA |
| 6027 | 5094 | Relocate Fire Hydrant | EA |
| 6028 | 5100F | 4" Gate Valve | EA |
| 6029 | 5100H | 6" Gate Valve | EA |
| 6030 | 5100J | 8" Gate Valve | EA |
| 6031 | 5100K | 10" Gate Valve | EA |
| 6032 | 5100L | 12" Gate Valve | EA |
| 6033 | 5100S | 20" Gate Valve | EA |
| 6034 | 5100V | 24" Gate Valve | EA |
| 6035 | 5100Y | 30" Gate Valve | EA |
| 6036 | 5520S | 20" Water, Highway Cross (By Open Cut) | LF |
| 6037 | 5520V | 24" Water, Highway Cross (By Open Cut) | LF |
| 6038 | 5520Y | 30" Water, Highway Cross (By Open Cut) | LF |
| 6039 | 5600 | Cut and Plug Existing Water Main | EA |
| 6040 | 5610 | Cut and Plug Water Main for Test | EA |
| 6041 | 5620X | Cut and Plug Main – Extra Depth (+20') | LF |
| 6042 | 6010AC | 42" WW, Highway Crossing (Open Cut) | LF |
| 6043 | 6060 | Wastewater Lateral | EA |
| 6044 | 6080 | Standard Mainline Cleanout | EA |
| 6045 | 6100 | Wastewater Access Device | EA |
| 6046 | 6125AE | 48" Pressure Type Drop Manhole | EA |
| 6047 | 6130AE | 48" Wastewater Manhole | EA |
| 6048 | 6130AJ | 72" Wastewater Manhole | EA |
| 6049 | 6131AJX | 72" Wastewater MH – Extra Depth (+20') | EA |
| 6050 | 6140 | Abandon Existing Manhole | EA |
| 6051 | 6141 | Vacuum Test for Wastewater Manhole | EA |
| 6052 | 6921 | Television Inspection | LF |
| 6053 | 6925 | Trench Excavation Safety & Support | LF |
| 6054 | 6930Y | 30" Closure Section | EA |
| 6055 | 7030 | Rock Foundation | CY |
| 6056 | 7041 | Flowable Backfill | CY |
| 6057 | 7043 | Four "F" Flowable Backfill | CY |
| 6058 | 7050 | Sand Backfill | CY |
| 6059 | 7071 | Class "B" Concrete | CY |
| 6060 | 7532 | Concrete Gutter | LF |
| 6061 | 7540 | Concrete Curb | LF |
| 6062 | 7560 | Crushed Rock for Temporary Paving Base | CY |
| 6063 | 7580 | Reinforced Concrete Sidewalk | SY |
| 6064 | 7581 | Temporary Hot Mix Asphalt Sidewalk | SY |
| 6065 | 7590 | Reinforced Concrete Driveway | CY |
| 6066 | 7730 | Dispsl of Heavy Chlor Wtr Main Flsh Wtr | LS |
| 6067 | 8011 | Const Survey&Staking (W & WW Mains) | LF |
| 6068 | 20300 | Adjust and/or Relocate Water Meter Box | EA |
| 6069 | 20330 | Adjust Water Valve Covers & Stacks | EA |
| 6070 | 20340 | Adjust Wastewater Lateral Cleanout | EA |
| 6071 | 20350 | Adjust Wastewater Mainline Cleanout | EA |
| 6072 | 20351 | Adjust Wastewater Access Device | EA |
| 6073 | 20360 | Adjust Wastewater Manhole | EA |
| 6074 | 20430 | Install Fire Hydrant Extension | EA |
| 6075 | 20440 | Remove Fire Hydrant Extension | EA |

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|------|---------|---------------------------------------|----|
| 6076 | 20500 | Investigation | EA |
| 6077 | 20560 | Alter Wastewater Manhole | EA |
| 6078 | 3120Q | 16" PVC Pressure Wastewater Pipe | LF |
| 6079 | 3560 | Connection to Existing Manhole | EA |
| 6080 | 5020 | Extra Iron Fittings | TN |
| 6081 | 5160AG | 60" Access Manhole | EA |
| 6082 | 5560L | 12" Water Main Crossing (By Open Cut) | LF |
| 6083 | 5560Y | 20" Water Main Crossing (By Open Cut) | LF |
| 6084 | 5580S | 20" Dished Head Plug | EA |
| 6085 | 5580Y | 30" Dished Head Plug | EA |
| 6086 | 6930S | 20" Closure Section | EA |
| 6087 | 7520 | Temp Paving (Hot Mix or High Perform) | TN |
| 6088 | 7530 | Concrete Curb and/or Gutter | LF |
| 6089 | 7582 | Reinforced Concrete Pavement | CY |
| 6090 | 7600 | Reinforced Concrete Base | CY |
| 6091 | 7655 | Hot Mix Asphalt Concrete Pavement | TN |
| 6092 | 5160AJ | 72" Diameter Water Manhole | EA |
| 6093 | 5110J&H | 8"x6" Tapping Sleeve | EA |
| 6094 | 6050J | 8" WW Main Crossing (By Open Cut) | LF |
| 6095 | 5560J | 8" Water Main Crossing (By Open Cut) | LF |

5. PAYMENT

The work performed with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for the various items of work. These prices will be full compensation for furnishing all labor, tools, equipment and incidentals necessary to satisfactorily complete the work prescribed in the Document and as detailed on the plans.

Miscellaneous ductile iron fittings required to complete the work will not be paid for directly, but will be subsidiary to this Item unless otherwise shown in the plans. Water line sterilization and testing of the completed water main system will not be paid for directly, but will be subsidiary to this Item unless otherwise shown on the plans.