### SECTION 629 – WATER DISTRIBUTION FACILITIES

**DESCRIPTION**

**629.01.01 GENERAL**

***ADD The following to this subsection:***

C. The work for the vertical adjust valve box and water blow-off to finish grade shall be in

accordance with the Uniform Design and Construction Standards for Potable Water

Systems (UDACS).

D. Any method of relocation or encasement of water facilities other than that indicated on the plans or Standard Drawings must be approved by the Engineer prior to beginning work.

E. It shall also be the Contractor's responsibility to provide reference markers and records of the location of each water valve box and water meter to allow access at any time. The Contractor shall perform all work required for construction of water mains and appurtenances as shown.

F. It shall also be the Contractor's responsibility to verify the location of all existing water valves, meters, blow-off assemblies and other water facilities within the improvement area of this project and make any necessary adjustment of the cover to these facilities to their proper vertical location of the roadway and sidewalk improvement surface.

G. The Contractor shall notify Las Vegas Valley Water District (LVVWD) Construction Division ((702) 258-7171) at least 48 hours prior to start of construction on any water facility in this project.

1. Notice shall be given by 2:00 p.m., the business day prior to a LVVWD inspection.
2. When calling for an inspection, refer to the LVVWD project number found in the notes for scheduling an inspection.

**MATERIALS**

**629.02.01 GENERAL**

***ADD The following to this subsection:***

B. All materials for the water line construction will be in accordance with the current edition of the Water Standards and the Construction Drawings and Specifications, respectively.

**CONSTRUCTION**

**629.03.01 GENERAL**

***ADD The following to this subsection:***

B. The approximate locations of main lines are indicated on the plans.

C. The location of vaults, meters, valves, fire hydrants and service lines are not indicated on the plans. It will be the Contractor's responsibility to locate, and/or adjust these items as necessary for their proper placement according to the plans and standard drawings and the LVVWD.

***ADD The following subsections:***

**629.03.70 WATER SERVICE RELOCATIONS**

A. The locations of water service lines are not shown on the plans.

B. It shall be the Contractor's responsibility to relocate all water service lines interfering with roadway and/or drainage construction according to the UDACS.

C. The Contractor shall not leave said service lines disconnected for a longer period than 2 hours.

**629.03.71 WATER LINE AND SANITARY OR STORM SEWER LINE CROSSING**

A. All waterline and sanitary or storm sewer crossings shall conform to UDACS section 2.22.

**629.03.72 ADJUSTING VALVE BOXES AND VAULT COVERS**

A. Unless otherwise provided on the plans or by the Contract, existing covers shall be adjusted to the finish grade elevation.

B. Work shall include establishing accurate ties for locating valves after paving. Valve boxes that are adjusted to fit each location shall have final rim elevation at 1/8-inch to 1/4-inch below final street grade and shall be of the shape and size indicated in the USD. Water vault cover elevations shall also be of the shape and size indicated in the USD but shall match adjacent finish grade or sidewalk elevation

C. Minor adjustments shall be considered those adjustments made to all existing covers or boxes not requiring concrete collars, including frames or lids, to bring them to final street grade.

Note to Spec Writer – Keep the following section for cases when you have known quantities of ACP removal

**629.03.73 REMOVAL OF EXISTING ASBESTOS CEMENT PIPE (ACP)**

A. The removal of ACP shall be in the areas stated on the Contract Drawings and in these Special Provisions. Asbestos containing particulates are considered a hazardous material. The Contractor shall be fully responsible for taking the necessary measures and precautions when working with ACP. The Contractor shall dispose of all ACP in accordance with all local, state and federal regulations. The Contractor shall obtain and provide proof of the following permits/documentation when required:

1. **CLARK COUNTY DEPARTMENT OF AIR QUALITY, ASBESTOS NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) NOTIFICATION OF ASBESTOS ABATEMENT**

Activity: Disturbance or removal of asbestos containing materials

Activity: Clark County Department of Air Quality (DAQ), (702) 455-5942

The Contractor intending to disturb, remove or engage in an asbestos abatement project is required to submit an Asbestos NESHAP Notification of Asbestos Abatement Application, which must be received by the Department of Air Quality ten days before beginning any on-site work at the asbestos abatement project.  The Contractor will forward a copy of the original application and a copy of the Project Notification Letter from DAQ to the Engineer.

1. **SOUTHERN NEVADA HEALTH DISTRICT AUTHORIZATION TO TRANSPORT ASBESTOS PERMITASBESTOS WASTE MANIFEST**

Activity: Transporting material containing asbestos to a disposal facility.

Activity: Southern Nevada Health District, (702) 759-1000

The Southern Nevada Health District will provide the Contractor with an Authorization to Transport permit.  The Contractor shall forward a copy of the original permit to the Engineer.

1. **ASBESTOS WASTE MANIFEST**

Activity: Disposing of material containing asbestos.

Activity: Disposal facility

The Contractor shall obtain an Asbestos Manifest from the disposal facility and provide the Engineer with the original Manifest.

1. **DECLARATION OF NON-HAZARDOUS WASTE (when required by Disposal Facility)**

The Contractor shall obtain a Non-Hazardous material disposal form from the Disposal Facility and forward copy of completed form to the Engineer.

**METHOD OF MEASUREMENT**

**629.04.01 MEASUREMENT**

***ADD THE FOLLOWING TO THIS SUBSECTION:***

Note to Spec Writer: Only use this if you anticipate it is needed. The quantity of MISCELLANEOUS LVVWD REQUIRED FIELD ADJUSTMENTS will be measured per force account. All force account work shall be performed under the direct supervision of the on-site Owner’s Representative and shall only commence under his/her express direction.

The quantity of XX-INCH C900 PVC PIPE will be measured per linear foot.

The quantity of XX-INCH DUCTILE IRON PIPE will be measured per linear foot.

The quantity of VERTICAL ADJUST WATER VALVE COVER will be measured per each.

The quantity of REMOVE AND RELOCATE WATER METER will be measured per each.

The quantity of ACP WATERLINE REPLACEMENT WITH (MATERIAL) PIPE (XX INCH) will be measured per linear foot.

The quantity of [FILL IN ITEM DESCRIPTION] will be measured per [UNIT].

No direct measurement shall be made for [FILL IN ITEM DESCRIPTION].

**BASIS OF PAYMENT**

**629.05.01 PAYMENT**

***ADD THE FOLLOWING TO THIS SUBSECTION:***

The accepted quantity of MISCELLANEOUS LVVWD REQUIRED FIELD ADJUSTMENTS will be paid for at the contract unit price per force account in accordance with Section 109.03 Extra and Force Account Work and shall include all materials, equipment and labor required as necessary by LVVWD and not already included in the contract documents.

The accepted quantity of XX-INCH C900 PVC PIPE will be paid for at the contract unit price of linear foot and shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include removal of pavement and the placing of the Permanent Patch; excavation; shoring; supporting; dewatering; pipe bedding; pipe installation; backfill; compaction; pipe materials; fittings and other appurtenances; connection to existing facilities; protective coatings; concrete; reinforcing steel; testing and disinfecting and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

The accepted quantity of XX-INCH DUCTILE IRON PIPE will be paid for at the contract unit price of linear foot and shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include removal of pavement and the placing of the Permanent Patch; excavation; shoring; supporting; dewatering; pipe bedding; pipe installation; backfill; compaction; pipe materials; fittings and other appurtenances; connection to existing facilities; protective coatings; concrete; reinforcing steel; testing and disinfecting and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

The accepted quantity of VERTICAL ADJUST WATER VALVE COVER will be paid for at the contract unit price of each and shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include all labor, equipment and materials, including but not limited to class B concrete collars; reinforcing; temporary adjustments to top of dense grade; and final adjustments to top of finish grade, and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

NOTE TO SPEC WRITER: Anytime 6-feet of ACP is exposed it must be replaced per UDACS. This should be quantified

The accepted quantity of ACP WATERLINE REPLACEMENT WITH (MATERIAL) PIPE (XX INCH) will be paid for at the contract unit price of linear foot and shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include

trench excavation; placement of temporary patch; shoring; supporting and protection of existing utilities; dewatering of pipelines; pipe bedding; ductile iron pipe material; pipe installation; backfill; compaction; cutting of ACP waterline; handling and disposal of ACP material in accordance with local / state / federal regulations; connection and transition couplings; fittings and other appurtenances; thrust blocks; restraining joint gaskets; connection to existing facilities; service saddles; poly wrapping; protective coatings; CLSM slurry encasement (where required) of crossing utility or waterline; removal of segments of crossing utility and associated re-installation of water quality pipe (where required); concrete protection of under crossing utilities (where required); testing and disinfecting; coordination with LVVWD; and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

Unless otherwise provided in the Special Provisions, no payment will be made for the removal of pavement and the placing of the Permanent Patch in accordance with section 208 “Trench Excavation and Backfill”. The cost thereof shall be considered as included in the price bid for construction and installation of the pipe.

The accepted quantity of REMOVE AND RELOCATE WATER METER, will be paid for at the contract unit price of each and shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include removal of pavement and the placing of the Permanent Patch; removal and replacement of sidewalk; removal and abandonment of existing water meter; excavation; shoring; supporting; dewatering; concrete pad; water laterals; meters; backflow prevention devices; meter boxes, pipe bedding; pipe installation; thrust blocks; corporation stop; service saddle, gaskets; coupling; backfill; compaction; pipe materials; fittings, tapping valve and other appurtenances; connection to existing facilities; protective coatings; concrete; reinforcing steel; testing and disinfecting and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

The following is for items in spec 629: The accepted quantity of [FILL IN ITEM DESCRIPTION] will be paid for at the contract unit price of [UNIT], shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include all materials, equipment and labor required including, but not limited to, [FILL IN] and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

The accepted quantity of [FILL IN ITEM DESCRIPTION] will be paid for at the contract unit price of [UNIT], shall conform to the requirements of the Uniform Design and Construction Standards (UDACS) and shall include all materials, equipment and labor required including, but not limited to, [FILL IN] and all other items necessary to complete the work as shown on the Plans, as specified herein and as directed by the Engineer.

The accepted quantity of [FILL IN ITEM DESCRIPTION] will be paid for at the contract unit price of [UNIT] and shall conform to the requirements of subsection 605.05.01 of the Uniform Standard Specifications and shall include all materials, equipment, labor and disposal required to perform this work and all work as shown on the Plans, as specified herein and as directed by the Engineer. The above payment shall also include,

Unless otherwise provided in the Special Provisions, no payment will be made for [FILL IN ITEM DESCRIPTION] as such. The cost thereof shall be considered as included in the price bid for construction or installation of the items to which [FILL IN ITEM DESCRIPTION] is required.

Payment will be made under:

|  |  |  |
| --- | --- | --- |
| **ITEM NO.** | **ITEM DESCRIPTION** | **UOM** |
| 629.0200 | MISCELLANEOUS LVVWD REQUIRED FIELD ADJUSTMENTS | FA |
| 629.XXXX | XX-INCH C900 PVC PIPE | LF |
| 629.XXXX | XX-INCH DUCTILE IRON PIPE | LF |
| 629.1470 | VERTICAL ADJUST WATER VALVE COVER | EA |
|  |  |  |
| 629.XXXX |  ACP WATERLINE REPLACEMENT WITH (MATERIAL) PIPE (XX INCH) | LF |

**END OF SECTION 629**