

Amend **Section 604 - Manholes, Inlets and Catch Basins** to read as follows:

**"SECTION 604 – MANHOLES, PULLBOXES, WATER METERS,
VALVE BOXES AND FIRE HYDRANTS**

604.01 Description. This work includes reconstructing and/or adjusting drain manholes, telephone handholes, traffic signal pullboxes, water meter boxes, valve boxes and fire hydrants, and relocating water meters according to the contract.

604.02 Materials. Concrete for structures shall be of the class specified. Concrete shall conform to Section 601 - Structural Concrete. If concrete in structures is to come in direct contact with sewage or sewage gases, the Contractor shall modify the proportioning of concrete according to Section 625 - Sewer System.

Other materials shall conform to the following:

Reinforcing Steel	709.01
Frames, Grates, Covers and Ladder Rungs	712.07

When the location of manufacturing plants allows, the Engineer may inspect the plants periodically for compliance with specified manufacturing methods. The Engineer may get material samples to verify compliance with the contract. This may be the basis for acceptance of manufacturing lots regarding quality.

The condition of materials will be subject to inspection for acceptance before or during incorporation of materials into the work.

604.03 Construction Requirements.

(A) General. Concrete construction shall conform to Section 503 - Concrete Structures.

Reinforcing steel work shall conform to Section 602 - Reinforcing Steel.

A certified welder shall do the shop and field welding according to Section 501 - Steel Structures.

(B) Setting Frames. Place the frames in the concrete according to the contract. Carefully tamp the concrete around the frame.

Set the frame in full mortar beds. Bring the mortar up around the bottom of the frame.

(C) Excavation and Backfill. Excavate and backfill according to Section 206 - Excavation and Backfill for Conduits and Structures.

(D) Reconstructing Drain Manholes and Telephone Handholes. Reconstruct the existing drain manholes and telephone handholes to the required elevations according to the contract and as ordered by the Engineer. Adjust the drain manhole frame and the telephone handhole to the required grade using the same type of material used in its original construction. Carefully remove, clean, and paint the existing manhole frame and cover with accepted asphaltum paint before reinstallation.

(E) Constructing and/or Adjusting Traffic Signal Pullboxes, Water Meter Boxes, Valve Boxes and Fire Hydrants and Relocating Water Meters. Construct, adjust and/or relocate the traffic signal pullboxes, water meter boxes, valve boxes, fire hydrants, and water meters to the required elevations according to the contract and as ordered by the Engineer.

Set and center the 8-inch pipe collar plumb over the valve stem. Ends of the pipe collar shall have smooth, machined edges. Backfill around the gate valve and pipe collar with trench backfill by hand. Backfill 8 inches below the surface of the ground.

Upon completion of installation, clean and paint the valve box frames and covers with one coat of accepted asphaltum paint.

Adjust the existing traffic signal pullboxes and water valve boxes to the required grade using the same type of material used in its original construction. For the adjusted and/or relocated water meters, install new Type "X" concrete box with cast-iron covers. See contract plans for details.

For the adjusted traffic signal pullboxes and water valve boxes, carefully remove, clean, and paint the existing cast iron frame and cover with accepted asphaltum paint. Cut the existing pipe collar or install a new pipe collar. Reinstall the frame and cover and pour the four inch thick concrete.

Adjust fire hydrants to the required height per Standard Detail No. FH4 of the 2002 Standard Details for Water System Construction.

604.04 Method of Measurement. The Engineer will measure the reconstructed and/or adjusted drain manholes, telephone handholes, traffic signal pullboxes, water meter boxes, water valve boxes and fire hydrants per each complete in place.

The Engineer will measure the relocated water meters per each complete in place.

604.05 Basis of Payment. The Engineer will pay for the reconstructed and/or adjusted drain manholes, telephone handholes, traffic signal pullboxes, water meter boxes and water valve boxes at the contract unit price per each complete in place.

The price includes full compensation for furnishing and installing new Type "X" concrete boxes with cast-iron covers for the adjusted water meter boxes; furnishing and installing frames and grates, frames and covers, and rungs; excavating and backfilling; adjusting or demolishing; removing and disposing of demolished and/or excavated materials; placing concrete; furnishing and installing structural steel sections, reinforcing steel, brick, precast concrete, precast reinforced concrete walls, including the cone or tapered sections and cast-in-place walls vertically; reinstalling salvaged materials; furnishing materials, equipment, tools, labor and other incidentals necessary to complete the work.

The Engineer will pay for the adjusted fire hydrant at the contract unit price per each complete in place.

The price includes full compensation for excavating and backfilling; demolishing; removing and disposing of demolished and/or excavated materials; furnishing and installing the required pipes, fittings and all necessary accessories; and furnishing materials, equipment, tools, labor and other incidentals necessary to complete the work.

The Engineer will pay for the relocated water meters at the contract unit price per each complete in place.

The price includes full compensation for excavating and backfilling; cutting and plugging existing laterals at water main; demolishing; removing and disposing of demolished and/or excavated materials; furnishing and installing new service laterals including new Type "X" concrete boxes with cast-iron covers; reinstalling the existing water meters; reconnecting relocated water meters to the water main; reconnecting private (interior) lines to the new meter locations; trenching and restoring pavement section; and furnishing materials, equipment, tools, labor and other incidentals necessary to complete the work.

The Engineer will make payment under:

Pay Item	Pay Unit
Reconstruct Drain Manhole	Each
Adjust Water Meter Box	Each
Relocate Water Meter (_____)	Each
Adjust Water Valve Box	Each
Adjust Fire Hydrant	Each
Adjust Traffic Signal Pullbox	Each
Reconstruct Telephone Handhole	Each"

END OF SECTION