ITEM 764
PUMP STATION AND DRAINAGE SYSTEM CLEANING

764.1. Description. Perform hydraulic cleaning and vacuum removal and disposal of debris in drain inlets, pump station wells, basket and inlet pipes, downspouts, sumps, storm sewers, and slotted drains. Debris is defined as dirt and other material not part of the drainage system.

764.2. Materials. Furnish materials unless otherwise shown on the plans. Furnish water that is free of industrial wastes and other objectionable material.

764.3. Equipment. Provide a self-contained, single-unit vehicle with a high-pressure water pump capable of pumping at least 60 gpm at 2,000 psi with at least 500 ft. of hose and a water storage tank of at least 1,300 gal. capacity. For pump station well and basket and inlet pipe cleaning, or if required on the plans, also provide a debris storage bin of at least 14 cu. yd. capacity and an air conveying vacuum system capable of cleaning pump station wells up to 55 ft. deep through 8 in. diameter tubing.

764.4. Work Methods. Remove and dispose of debris and wash water off the right of way in accordance with federal, state, and local regulations.

Perform hydraulic cleaning and vacuum removal as follows:

A. **Drain Inlet.** Clean the drain inlet including the top. Drain inlet cleaning includes cleaning curb inlets, grate inlets, catch basins, or manholes.

B. **Pump Station Well.** Clean the pump well floor, excluding the basket and inlet pipes.

C. **Basket and Inlet Pipe.** Clean the basket and inlet pipes at the pump station well. Unless otherwise shown on the plans, clean inlet pipes for a minimum distance of 10 ft. from inlet pipe entry into the well.

D. **Downspout.** Clean downspouts from the drain inlet on the bridge deck to the junction box, manhole, storm sewer trunk system, or outfall.

E. **Sump.** Clean the sump box.

F. **Storm Sewer.** Clean storm sewer pipe or box culvert, regardless of size or shape, for the distance required.

G. **Slotted Drain.** Clean the slotted drain, including the drainpipe below the slot. Clean the drainpipe from the downstream end of the slotted drain to the pipe outfall or to the next slotted drain in accordance with Section 764.4.F. “Storm Sewer.”

764.5. Measurement. This Item will be measured by the each or foot as follows:

A. **Drain Inlet.** By each drain inlet cleaned.

B. **Pump Station Well.** By each pump station well cleaned.

C. **Basket and Inlet Pipe.** By each basket and inlet pipe cleaned.

D. **Downspout.** By each downspout cleaned.

E. **Sump.** By each sump cleaned.

F. **Storm Sewer.** By the foot of storm sewer pipe or box culvert cleaned, as measured by the hose extended into the pipe or culvert.

G. **Slotted Drain.** By the foot of drain measured along the slot. Cleaning of the drainpipe from the downstream end of the slotted drain to the pipe outfall or to the next slotted drain will be measured by the foot of hose extended into the drainpipe.

764.6. Payment. The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Drain Inlet Cleaning,” “Pump Station Well Cleaning,” “Basket and Inlet Pipe Cleaning,” “Downspout Cleaning,” “Sump Cleaning,” “Storm Sewer Cleaning” of the type and size specified, and “Slotted Drain Cleaning.” This price is full compensation for cleaning, removing and disposing of debris and wash water, equipment, labor, materials, tools, and incidentals.