

## ITEM 910

### INSTALLING WATER LINE IN CASING

#### 910.1 Description

This section covers installation of all water line casing at the locations as indicated on the drawings or as directed by the Engineer.

#### 910.2 Material

All pipe and fittings to be provided shall be new and shall conform to the size as shown on the plans. All pipe and fittings shall conform to the AWWA Specifications as separately described by these specifications.

Steel casing shall be size and length as shown on plans & detail sheet.

Valves shall conform to the requirements of AWWA Standard Specifications, latest revision, as separately described in other sections of these specifications.

#### 910.3 Construction Methods

Water pipe installed in steel casing at the location shown on the plans or as directed by the Engineer shall be done by the method of boring and jacking to the line and grade as shown on the plans. The jacking and boring method of construction shall be made in such a manner that will not interfere with the traffic where the line crosses a public road.

All pipe installed in steel casing must have skids strapped to the pipe as per manufacturer's recommendations. The skids must be used to prevent damage to the pipe and bell joints during its installation and to provide proper long-term line support.

The skids on all pipes must provide sufficient height to permit clearance between bell joint and casing wall. The skids may either extend for the full length of the pipe, with the exception of the bell and spigot portion required for assembly, or may be spaced at intervals.

Pipe may be installed in the casing by method of winch drawn cable or by jacking but in either way, care must be exercised to avoid damage to pipe or bell joints. Use of lubricant (flax soap or drilling mud) between skids and casing will ease the installation. Do not use petroleum products; that is oil or grease.

#### 910.4 Measurement

The water line installed in steel casing will be measured by the linear foot of pipe for payment, complete in place as per Item 906 (Furnishing and Installing Water Line Pipes).

#### 910.5 Payment

Payment for the water line installed in casing will be made at the contract price per linear foot as specified under Item 906.

END OF ITEM 910