

WATER SYSTEMS

****From Rutland City-Proctor STP 2728(1) Rutland City NH 2716(1)
Rutland City STP 019-3(57)**

- xx. DESCRIPTION. This work shall consist of the construction or reconstruction of water lines and appurtenances, including installation of new gate valves and water piping, relocation of existing fire hydrants, and adjusting the height of existing valve boxes and water shut-offs or curb boxes.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 629 of the Standard Specifications.

- xx. MATERIALS. All ductile iron pipe shall be Class 52.
- xx. LAYING PIPE. Separation of water mains and sewers shall conform to the requirements of Special Provision (Sanitary Sewer Systems).
- xx. SETTING OF VALVES AND FITTINGS. Corporation stops shall, in all instances, be tapped into the main on the side in a horizontal position or in such a position as will provide a minimum of 6 feet of cover over the connecting service line.
- xx. ADJUST ELEVATION OF WATER SHUT OFF. The Contractor shall coordinate the height of the adjustments with the Engineer and shall protect their work until final acceptance of all improvements on the Contract. The existing water shut off (WSO) or curb box shall be adjusted by adding a pipe extension or nipple as required and a new top cover section. The Contractor shall exercise care when lowering curb boxes so as not to damage the existing curb stop or water service.
- xx. SETTING OF HYDRANTS. Hydrant drains shall be securely plugged.
- xx. METHOD OF MEASUREMENT. The quantities of Special Provision (Adjust Elevation of Valve Box) and Special Provision (Adjust Elevation of Water Shut-off) to be measured for payment will be the number of units modified in the complete and accepted work.

The quantity of Special Provision (Gate Valve with Valve Box) of the size specified to be measured for payment will be the number of units installed in the complete and accepted work.

The quantity of Special Provision (Relocate Hydrant) to be measured for payment will be the number of units relocated in the complete and accepted work.

The quantities of Special Provision (Ductile Iron Pipe, Cement-Lined) and Special Provision (Seamless Copper Water Tube) of the size specified to be measured for payment will be the number of meters (linear feet) installed in the complete and accepted work, as measured along the flow line of the pipe.

- xx. BASIS OF PAYMENT. The accepted quantities of Special Provision (Adjust Elevation of Valve Box) and Special Provision (Adjust Elevation of Water Shut-off) will be paid for at the Contract unit price per each.

Payment will be full compensation for the furnishing of all labor, tools, equipment, and incidentals necessary to complete the work.

The accepted quantity of Special Provision (Gate Valve with Valve Box) of the size specified will be paid for at the Contract unit price per each. Payment will be full compensation for furnishing all materials including valve, valve box, and mechanical joint retainer glands; and for furnishing of all labor, tools, equipment, and incidentals necessary to complete the work.

The accepted quantity of Special Provision (Relocate Hydrant) will be paid for at the Contract unit price per each. Payment will be full compensation for furnishing all materials including fittings, couplings, drainage aggregate, concrete thrust restraint, and metal tie rods and clamps; and for furnishing of all labor, tools, equipment, and incidentals necessary to complete the work.

The accepted quantities of Special Provision (Ductile Iron Pipe, Cement-Lined) and Special Provision (Seamless Copper Water Tube) of the size and class specified will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for furnishing, transporting, handling, installing, testing, and disinfecting the materials specified, including fittings and clamps; for making all necessary connections; for furnishing and installing all required fittings including elbows, tees, and couplings as required including mechanical joint retainer glands; for furnishing and placing the concrete or other materials for reaction backing or furnishing and installing tie rods, clamps, and restrained joints; pipe insulation; crushed gravel bedding; sawcutting pavement; and for furnishing all tools, labor, equipment, and incidentals necessary to complete the work.

Excavation, including backfill and disposal of excavated material not suitable for backfill; and backfill, including material required to replace poor foundation material below the normal grade of pipe(s), will not be paid for separately but will be included for payment under the items of this Section.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.620 Special Provision (Adjust Elevation of Valve Box)	Each
900.620 Special Provision (Adjust Elevation of Water Shut-Off)	Each
900.620 Special Provision (Gate Valve with Valve Box)(X")	Each
900.620 Special Provision (Relocate Hydrant)	Each
900.640 Special Provision (Ductile Iron Pipe, Cement-Lined) (X")	Meter (Linear Foot)
900.640 Special Provision (Seamless Copper Water Tube)(X")	Meter (Linear Foot)