

**TECHNICAL SPECIFICATION 320
GRADE ADJUSTMENTS TO UTILITY BOXES AND GATE VALVES**

320.1 SCOPE OF WORK

This technical specification includes furnishing all labor, materials, testing, submittals, tools, and equipment necessary to adjust valve frames, covers, or utility boxes contained within the limits of work, to the final elevation of the pavement, overlay, or grades shown on the plans. The installation of bituminous concrete shims as shown on the plans, or if required by the Engineer, are included in this item.

320.2 MATERIALS

The Contractor shall provide all adjustment rings or telescopes in accordance with the Town of Windsor, Metropolitan District Commission or other utility standards.

Bituminous concrete for shims shall be Class 2 conforming to Form 816, Section M.04.

Emulsion shall conform to Form 816, Section M.04.01.4.c.

320.3 SUBMITTALS

The following submittals shall be submitted to the Engineer for review and approval prior to installation:

- Material certifications for all adjustment rings or telescopes
- Material certification or manufacture(s) cut sheet for emulsion

320.4 CONSTRUCTION METHODS

Prior to the installation of the final pavement surface, all adjustments to the utility frames and covers will be made. Where the elevation of the adjustment interferes with safe traffic travel conditions, or if directed by the Engineer, the protrusion will be marked by cones, barricades, or other safety marking to distinguish the hazard. All warning devices used shall conform to the Manual on Uniform Traffic Control Devices.

Winter shims, if shown on the plans or if ordered by the Engineer, will normally be installed only if there is a significant delay, such as a winter shut-down, before placing the finish course of bituminous concrete. The areas to be shimmed shall be swept clean of all debris and be free of standing water. The emulsion shall be applied to the existing pavement at the match mark using a brush to create a band at least 4 inches wide. The width of the shim shall be 2 feet for every one

inch of height of the exposed structure. Compaction shall be by plate compactor, roller or other method approved by the Engineer. Diesel fuel shall not be used to keep materials from sticking to compaction equipment. If deemed necessary by the Engineer, winter shims shall be reinstalled by the Contractor.

320.5 MEASUREMENT

Measurement for this item will be based on the number of gate valves or utility boxes adjusted and/or the number of shims installed, including the reinstallation of any winter shims.

320.6 PAYMENT

Payment for this item will be based on the contract unit price for Each adjustment to utility boxes and gate valves, or installation of shims, including all labor, materials, testing, submittals, tools, and equipment necessary to complete the work as specified.

PAY ITEM	PAY UNIT
Gate Valve Adjustment	EA.
Utility Box Adjustment	EA.
Shims	EA.