

SECTION 475

ADJUSTMENT OF WATER VALVE BOX

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475.01 SCOPE

This specification covers the requirements for the work of adjusting the elevation of water valve boxes to match proposed grade changes. This work is typically required prior to paving, or pavement recapping operations, so that the elevation of the valve box cover will match the elevation of the proposed recapped finish grade.

475.02 DESCRIPTION

The Contractor shall carry out such excavation as is necessary so that the valve box is exposed sufficiently so that it may be adjusted to the required grade.

Where the valve box is set in pavement, the Contractor shall cut the existing pavement to a square or rectangular shape around the valve box. Each cut line shall be at least 200 millimetres from the edge of the valve box. Cuts shall be finished straight with vertical edges.

During excavation operations, all contaminated select granulars, dirt and debris shall be removed and disposed of.

The valve box shall be adjusted so that the cover is at the required finished grade or as directed by the Owner's Representative. Should the valve box, or any other parts, become damaged during the operations, then the Contractor shall replace the damaged parts with new parts.

The bottom of the excavation shall be compacted, using hand operated compaction equipment if necessary.

The hole shall be backfilled with Other Material, new granular "B" material, and new granular "A" material, in layers as appropriate. Each layer shall be compacted before the next layer is placed. Layers shall not be thicker than 150 millimetres.

The bottom of the excavation, and each layer of select granulars shall be compacted to 100% of the maximum Standard Proctor Density (ASTM D698).

In pavement recapping operations, the top of the compacted Granular "A" shall be brought level with the bottom of the existing pavement, then the area around the valve box shall be patched with hot mix asphaltic pavement to the full depth of the existing pavement. The asphaltic pavement shall meet the requirements for either asphaltic base, or asphaltic surface course as stipulated in Section 330, 332 and 333, as appropriate.

Immediately prior to patching, the vertical faces of the existing pavement shall be treated with tack coat.

The hot mix asphaltic concrete shall be placed in layers not thicker than 50 millimetres, and compacted, before the next layer is placed. Compaction of the hot mix asphaltic pavement shall conform to the requirements stipulated in Section 330, 332 and 333, as appropriate.

475.03 MEASUREMENT FOR PAYMENT

Measurement for payment for Adjustment of Water Valve Box shall be on the basis of the number of water valve boxes adjusted to the required grades.

475.04 BASIS OF PAYMENT

Payment at the contract price for Adjustment of Water Valve Box shall be compensation in full for all materials, labour, and use of equipment required to:

Supply all materials, including: Selected Granular Base Course Class "A", select granular base course Class "B", asphalt cement, and asphaltic concrete, to cut existing pavement, to excavate existing pavement and granular materials from around the valve box, to adjust the valve box to the required grade, to place and compact Other Material, granular "B", and granular "A", to treat the cut edge of existing pavement with asphalt cement, to place and compact hot asphaltic concrete around the adjusted valve box, tack coat between layers of asphaltic concrete and to dispose of all waste materials.

The Contractor shall allow for in their unit price all costs associated with any hand work required to carry-out the work as described in this specification.

The basis of payment for Adjustment of Water Valve Box also includes compensation in full for all materials, labour, and use of equipment required to supply and replace any valve boxes and parts damaged by the Contractor during the adjustment of water valve box operation.