SPECIAL PROVISION
SECTION 608
DETECTABLE WARNINGS
(Cast Iron)

Description  This work shall consist of furnishing and installing curb ramp detectable warning plates with truncated domes at the locations shown on the plans or as established by the Resident.

MATERIALS

Detectable Warnings  The Contractor shall provide new cast iron detectable warning plates as manufactured by one of the manufacturers listed on Maine DOT’s Qualified Products list of Cast Iron Detectable Warning Plates. This list can be found at:

http://www.maine.gov/mdot/tr/qpl/

Each field shall match the width of the ramp and shall have a natural finish.

Prior to starting this work, the Contractor shall submit for approval the name of the selected supplier, manufacturer’s literature describing the product, installation procedures, and routine maintenance required.

Concrete  Portland cement concrete shall meet the requirements of Section 502, Structural Concrete, Class A

CONSTRUCTION REQUIREMENTS

Existing Concrete Curb Ramps  Existing Concrete shall be saw-cut to a dimension 100mm [4 in] larger than the detectable warning plates. New concrete shall be placed in the resulting opening and finished, and the new plates set into the wet concrete, according to manufacturer recommendations. New plates shall be set square with the curb edge and the base of the truncated domes shall be flush with adjacent surfaces to allow proper drainage.

New Concrete Curb Ramps  New concrete shall be placed and finished for the ramp, and the new plates set into the wet concrete, according to manufacturer recommendations. New plates shall be set square with the curb edge and the base of the truncated domes shall be flush with adjacent surfaces to allow proper drainage.

New Asphalt Ramps  Asphalt shall be saw cut and removed to provide an opening that will allow for the dimensions of the cast iron plate surrounded by an additional 100mm [4 in] border on all sides of the plate. New concrete shall be placed in the resulting opening and finished, and the new plates set into the wet concrete, according to manufacturer recommendations.
recommendations. New plates shall be set square with the curb edge and the base of the truncated domes shall be flush with adjacent surfaces to allow proper drainage.

**Method of Measurement**  Detectable warning fields properly placed and accepted shall be measured for payment by the square meter [m²]. Measurement shall include actual plate area, not surrounding concrete.

**Basis of Payment**  Payment will be full compensation at the contract unit price for all labor, materials, and equipment required to install the detectable warning fields. This shall include surface preparation and removal of concrete or asphalt, and necessary replacement concrete. On new concrete ramps, concrete shall be paid for under separate items

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<tr>
<th>Pay Item</th>
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<td>608.26</td>
<td>Curb Ramp Detectable Warning Field</td>
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Views and Details of the Detectable Warning

(Not to Scale)

Pedestrian Ramp

- Curb Tip Down
- Sidewalk Tip Down
- Dome

Curb Tip Down

Dome and Detectable Warning Details

The top diameter of the truncated domes shall be 50% to 65% of the base diameter.

- Curb Flow Line
- 6"-0" to curb flow line
- 4" minimum

Detectable Warning Well

- Cast-in-place concrete

SECTION A-A

Note: All detectable warning areas shall start 6'-0" from the flow line of the curb, be 24" in depth, and cover the complete width of the ramp area only.