

42400800 DETECTABLE WARNINGS (LCDOT)

Effective: February 13, 2007

Revised: June 9, 2022

Description: This work shall consist of furnishing and installing detectable warnings in concrete accessibility ramps.

Materials: The detectable warnings shall be cast iron panels or powder coated, 10 gauge galvanized steel panels, of the sizes shown on the plans.

➤ **The cast iron panels shall meet the following material specification:**

The detectable warning plate shall be constructed of gray iron meeting the requirements of Article 1006.14 of the "Standard Specifications" and ASTM A48, CLASS 30A, 30B or 35B; or cast ductile iron meeting the requirements of Article 1006.15 of the "Standard Specifications".

The coating system shall consist of a rust inhibiting epoxy primer and a finish coat.

The epoxy primer shall have the following properties:

Property	Test Method	Performance
Humidity	ASTM D1735	1000 Hours Minimum
Water Immersion	ASTM D870	250 Hours Minimum
Corrosion Resistance (Salt Spray)	ASTM B117	1000 Hours Minimum

Cold Rolled Steel Lab Panels

The finish coat shall be a powder coat and shall have the following properties:

Property	Test Method	Performance
Color	---	Federal Yellow
Corrosion Resistance (Salt Spray)	ASTM B117	1000 Hours Minimum

Cold Rolled Steel Lab Panels

➤ **The galvanized steel panels shall meet the following material specification:**

The detectable warning plate shall be constructed of 10 gauge steel with a G-90 grade galvanization.

The galvanized surface shall be chemically etched and sealed for stabilization. The finish coat shall be a powder coat and shall have the following properties:

Property	Test Method	Performance
Color	---	Federal Yellow #33538
Corrosion Resistance (Salt Spray)	ASTM B117	1000 Hours Minimum

General: The installation of detectable warnings shall meet the requirements of Article 424.09 of the “Standard Specifications” and the following:

Contractors shall not mix the panel materials in a single ramp and/or intersection installation.

Method of Measurement: This work will be measured for payment in place installed, in square feet. *The concrete area under the detectable warnings will be measured for payment as PORTLAND CEMENT CONCRETE SIDEWALK of the thickness specified, with no deductions made for the detectable warning panels located within the ramp.*

Basis of Payment: This work will be paid for at the contract unit price per square foot of DETECTABLE WARNINGS. *The unit price shall include all equipment, materials and labor required to install the panels.*