

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
LIGHTNING PROTECTION HANDHOLE

SIG:HJK

1 of 2

APPR:EMS:NJB:03-25-26
FHWA:APPR:04-06-26

a. Description. This work consists of furnishing necessary hardware and materials for lightning protection handholes for use in traffic signal construction.

b. Materials. Furnish material that meets the following requirements.

1. Furnish a straight-walled handhole box and cover in accordance with subsection 918.06 of the Standard Specifications for Construction, or as supplied from the following list:

A. Oldcastle Duralite 1212-12 handhole with Duralite 1212 cover.

B. Channel BULKU-BC-1212-12 handhole with solid shield cover.

C. Approved Equal. Ensure the approved equal is evaluated, tested and approved per the MDOT New Traffic Signal Device Product Review Guidelines. The review time is not justification to delay the project.

2. Ensure composite straight walled handhole has a length, width and height of 12 inches.

3. Ensure handhole box and cover comply with all test provisions of the *ANSI/SCTE-77, Tier 15* application.

4. Furnish a handhole cover with a co-efficient of friction of at least 0.5. Ensure the cover is fastened with a minimum of two stainless steel bolts, washers and nuts.

5. Ensure the handhole is fully stackable as required for installation depth.

6. Furnish handhole box of a gray or black color. Furnish handhole cover in gray.

7. Ensure the provided cover is imprinted on a 4 inch by 8 inch or 5 inch by 7 inch plate with "MDOT TRAFFIC SIGNAL" for MDOT installations and "TRAFFIC SIGNAL" for non-MDOT or local agency installations. Secure plate onto cover with two stainless steel bolts.

c. Construction. Complete this work in accordance with section 818 of the Standard Specifications for Construction, as shown on the plans and as directed by the Engineer.

1. Warranty. Provide lightning protection handhole with a standard manufacturer's warranty, transferable to MDOT or the local agency responsible for the project, that the supplied materials are free from all defects in materials and workmanship. Furnish the warranty and other applicable documents from the manufacturer, and a copy of the invoice showing the date of shipment, to the Engineer prior to acceptance.

Acceptance for field staff will be based on:

2. Providing shop drawing submittal and approval prior to construction.

3. Passing visual inspection during construction for proper materials and installation in accordance with sections 918 and 921 of the Standard Specifications for Construction, applicable special details, and this special provision.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
Hh, Lightning Protection	Each

Hh, Lightning Protection includes material and construction for lightning protection handhole, cover, necessary hardware, connectors, fittings, and all material necessary to complete the work.