

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
SPAN WIRE JUNCTION BOX

SIG:EMS

1 of 2

APPR:HLO:NJB:04-29-20

FHWA:APPR:05-06-20

a. Description. This work consists of furnishing, installing or removing a span wire junction box as indicated on the plans or as directed by the Engineer. As applicable, this work includes installation or removal of the enclosure, hardware, connectors, fittings and any associated material required to complete the work.

b. Materials. Provide material in accordance with sections 918 and 921 of the Standard Specifications for Construction and meeting the following:

1. Design an enclosure manufactured from 13 gauge sheet aluminum that has nominal dimensions of 4.5 inches high, 7 inches wide, and 16 inches long;
2. Provide mounting brackets that are manufactured from 13 gauge sheet aluminum;
3. Provide an enclosure that is weather tight to seal out moisture from entering;
4. Ensure the bushing for cable entrance is liquid tight and sized properly based on manufacturer's recommendations and cable used;
5. Provide a door manufactured of 13 gauge sheet aluminum with a 6 inch strap hinge attached using 8, 0.125 inch aluminum rivets and is weather tight when closed;
6. Provide a 17 position terminal block that is a cinch type 17-142 or approved equal that can accommodate #14 American Wire Gauge (AWG) wires for signal termination. Also provide permanent labels adjacent to both sides of the terminal blocks identifying the terminal block connections;
7. Provide one 13-position neutral buss bar; and
8. Provide one 13-position chassis ground buss bar designed to accommodate a #6 AWG ground wire. Permanently identify all components on the back-panel.

c. Construction. Complete the work in accordance with sections 819 and 820 of the Standard Specifications for Construction, as shown on the plans, and as directed by the Engineer. Remove and dispose of material in accordance with section 204 of the Standard Specifications for Construction.

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

Pay Item**Pay Unit**

Junction Box, Span Wire Each
Junction Box, Rem.....Each

1. **Junction Box, Span Wire** includes furnishing and installing a new span wire junction box at locations shown on the plans.
2. **Junction Box, Rem** includes removing and disposing of an existing junction box at a locations shown on the plans.