

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
**SPAN WIRE TETHER**

SIG:EMS

1 of 1

APPR:NJB:HLO:03-27-23  
FHWA:APPR:03-31-23

**a. Description.** This work consists of furnishing and installing hardware, connector hangers, fittings, tether plate, span wire clamps, associated stainless steel fasteners and a span wire tether.

Bottom tether or top tether traffic signal heads as shown on plans or as directed by the Engineer.

**b. Materials.** Furnish material meeting the requirements of sections 818, 820, and 921 of the Standard Specifications for Construction.

1. Furnish tether span wire that is 5/16 inch nominal diameter for spans without tie-offs and 1/2 inch nominal diameter for spans with tie-offs, extra high-strength grade, 7-strand, galvanized, Class A, zinc-coated steel meeting the requirements of *ASTM A475*. Maintain clearance of 17 feet over roadway.

2. Ensure pole clamps, turnbuckle, tether wire to breakaway link connection, and all other components in the load path from the wire to the pole are galvanized steel, capable of resisting a load of 6,950 pounds minimum for 5/16 inch nominal diameter tether wire and 15,970 pounds minimum for 1/2 inch nominal diameter tether wire without permanent distortion.

3. Ensure three-way pull-off clamp or bull ring, galvanized or stainless, is capable of resisting a single pull load of 15,970 pounds minimum. Ensure breakaway link breaks at 6,950 pounds for 5/16 inch nominal diameter tether wire and 8,620 for 1/2 inch nominal diameter tether wire.

4. Materials will be accepted based on certification and visual inspection.

**c. Construction.** Complete this work in accordance with sections 818, 820 and 921 of the Standard Specification for Construction, as shown on the plans, and as directed by the Engineer.

Where installation is specified, install the span wire tether on existing or new signal head(s) at location(s) shown on the plans. Furnish, install, remove, or install on the project, a span wire tether, as shown on the plans or as directed by the Engineer.

**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
Span Wire Tether .....	Each