

Any finish on the signal structures and mounting hardware damaged during transportation and erection shall be repaired to match the original finish by the Contractor as approved by the Engineer at no additional cost to the Administration.

818.04 MEASUREMENT AND PAYMENT.

818.04.01 Installation of Administration furnished signal structures will be measured and paid for at the Contract unit price per each for the type of structure erected in place. The payment will be full compensation for the transportation and installation of all steel poles, mast arms, twin mast arms, triple mast arms, strain poles, pedestal poles, breakaway base support systems, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

818.04.02 Concrete foundations will be measured and paid for as specified in 801.04.

SECTION 819 — STEEL SPAN WIRE

819.01 DESCRIPTION. This work shall consist of furnishing and installing steel span wire for signal head or sign mountings, interconnect runs, or for tethering purposes when specified in the Contract Documents or as directed by the Engineer.

819.02 MATERIALS.

Steel Span Wire	950.09
Galvanizing	A153

Steel messenger rings shall be sized as specified in the Contract Documents and shall be mechanically or hot dip galvanized after fabrication.

819.03 CONSTRUCTION. The span wire shall be attached to poles by wrapping two full turns of the span wire around the pole at the specified height.

The free end of the wrapped span wire shall be 2 ft in length and shall be secured to the traversing span wire by a three bolt clamp and serving sleeve as specified in the Contract Documents.

All messenger rings shall be spaced 8 in. apart.

819.04 MEASUREMENT AND PAYMENT. Steel Span Wire of the size specified in the Contract Documents will be measured and paid for at the Contract unit price per linear foot for the wire installed. The payment will be full compensation for all hardware, material, labor, equipment, tools, and incidentals necessary to complete the work.

SECTION 820 — GENERAL ELECTRICAL WORK AND TESTING

820.01 DESCRIPTION. This work shall consist of furnishing, installing, and testing of all applicable electrical items referred to in Category 800.

820.02 MATERIALS. All materials and equipment installed as part of the permanent installation shall be new, UL listed, or labeled, and shall conform to NEC, NESC, NEMA, IES, and local codes applicable to the area of installation.

820.03 CONSTRUCTION.

820.03.01 General. All installations shall conform to NEC, NESC, local utility company requirements, and State and local laws and ordinances governing the work. All electrical work shall be accomplished under the direct supervision of a master electrician licensed in the State of Maryland, or in the county where the work is being performed. All work performed under Sections 804, 805, 806, 807, 810 (except loop wire), 811, 814, 816, 817, and 820 shall be performed by a journeyman electrician. The Contractor shall obtain and pay for all permits, licenses and inspection fees.

820.03.02 Testing. The Contractor shall supply all personnel and equipment required to successfully perform the following tests and shall furnish four certified copies of the complete test reports to the Engineer.

Not less than 30 days prior to the commencement of each required test, the Contractor shall submit to the Engineer the types, styles or catalog numbers of all testing equipment to be used for the tests. A written certification shall be included stating when the testing equipment was last calibrated by an Administration approved testing agency. The calibration date shall be within 180 days of the date when the tests are to be performed. All tests shall be performed in the presence of the Engineer.