## ITEM 625 CONDUIT MISC.: 3" CONDUIT, FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE

in addition to the requirements of 625.12,

This conduit is intended for attachment to bridges or structure as indicated in the Plans.

The conduit shall be Iron Pipe Size (IPS) Reinforced Thermosetting Resin Conduit (RTRC), listed by Underwriters Laboratories, UL, Standard UL 1684, and shall comply with NEMA Standard Number TC 14-2002. The conduit shall have a nominal wall thickness of 0.070 inches and shall be gray in color. The conduit installed shall be threaded, twenty (20)-foot sections. Epoxy adhesive shall be applied to the conduit ends when joining sections of conduit. Conduit expansion joints and other conduit fittings shall be installed as per the conduit manufacturer’s recommendations.

The conduit shall be attached beneath the bridge deck, attached to the cross frames, or attached to vertical surfaces behind the walls as shown on the Plans or as directed by the Engineer. Standard clamp type conduit hangers shall be used. Strap hangers are not acceptable. Bridge attachment hardware and support spacing used shall conform to the conduit manufacturer’s recommendations. All hangers and hanger hardware shall be galvanized and on the ODOT QPL. All hanger component surfaces in contact with the conduit shall be made from fiberglass. Holes for expansion anchors shall be drilled as per 510.03. Expansion anchors shall be set with epoxy adhesive. Thread adhesive shall be used on both the anchor bolt machine screw and the conduit clamp screw and nut.

Refer to ODOT SCD HL-30.32 for expansion/deflection fittings at the end of the bridge abutment. Expansion/deflection fittings used shall conform to the conduit manufacturer’s recommendations and shall be approved by the Engineer.

The Contractor shall install non-organic fiberglass pull tape with a minimum 1800 ft./lbs. tension strength in the conduit. The cost for the pull tape and its installation shall be incidental to the cost of this pay item.

Flexible metal conduit and fittings as manufactured by Liquatite, Delikon, or approved equal shall be used when directed by the Engineer to connect the standard fiberglass reinforced conduit to the standard conduit. The flexible metal conduit shall be waterproof and gray in color. The flexible metal conduit and fittings shall be considered incidental to this item.

The work as described will be measured as the number of linear feet of conduit furnished and installed from end to end, and shall include furnishing all materials, equipment, labor and incidentals, including all joints, couplings, fittings, hangers, attachment hardware, and accessories, necessary to complete the work specified. 9/23/15

*Request the following details in CAD format:*



