**ITEM 632 INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE, DOME, 800 SPLICE**

Fiber optic cable splices shall be performed in splice enclosures as shown on the Plans. The splice enclosures shall be corrosion resistant, rodent proof, re-enterable, and manufacturer certified for underground AND AERIAL installation.

the 800-Splice dome enclosure shall be A 9.5”x28” PLP coyote dome enclosure, catalog number 80061057 with *choose one:* 36 COUNT PLP COYOTE SPLICE TRAYS, CATALOG NUMBER 80810086 *(use only when 540 splices or fewer are required), or* 72 COUNT PLP COYOTE SPLICE TRAYS, CATALOG NUMBER LGSTS72 *(use only when greater than 540 splices are required),* AND SHALL be installed in 32” OR 48” pull boxes or mounted aerially as directed in the Plans. UP TO TEN FUSION SPLICE TRAYS ACCOMMODATING UP TO SEVENTY-TWO (72) SINGLE FIBER FUSION SPLICES PER TRAY MAY BE INSTALLED PER DOME ENCLOSURE FOR A TOTAL CAPACITY OF 720 SINGLE FUSION SPLICES.

THE Contractor shall advise the Engineer in the event that cables cannot enter THE splice enclosure perpendicularly to THE cable port entry plate, or if cable bends exceed minimum installation bend radius rating at the enclosure entry due to existing field conditions such as inadequate space in pull box or other obstructions. Additionally, THE Contractor shall advise the Engineer prior to splicing if IT IS ANTICIPATED THAT THE number of FUSION splices, SPARE FIBERS, AND BUFFER TUBES AS SHOWN IN THE PLANS cannot be neatly and securely contained in the splice enclosure called out in the Plans.

For underground installation, splice enclosure and slack cable must fit within pull box to avoid damage to the enclosure or cable upon closing the pull box lid.

For aerial installation, an extended strength member BRACKET, PLP catalog number 80808651, SHALL be installed with the splice enclosure to ensure cable entries remain perpendicular and securely fastened to the port entry plate. Aerial mounted slack storage racks are to be used for all installations where cables are looped or bent 180o. The cost of the strain relief hardware, extended strength member brackets, ties, or other installation hardware is considered incidental to this pay item.

all buffer tubes not shown as being spliced in the Plans are to be securely coiled within the splice enclosure.

each cable entering the enclosure shall be sealed with the APPROPRIATELY sized grommet. grommets, Plug kits, and brackets shall be incidental to pay item. Any proposed equivalent must be approved by the Engineer prior to installation. Fiber optic cable splice enclosures must meet the requirements listed under Bellcore Testing Requirement GR-771-CORE and UL 1863.

The work as described will be measured as one unit for each of the installations specified, and shall include all materials, equipment and incidentals, complete in place. Terminations, connections, and other miscellaneous items and materials shall be incidental to this work and no separate payment will be made. *1/12/24*