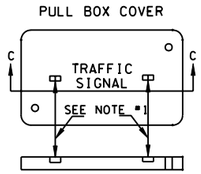


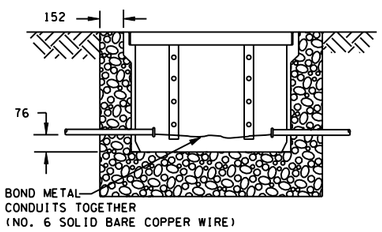
SECTION C-C

FIBER OPTIC PULLBOX MINIMUM DIMENSIONS

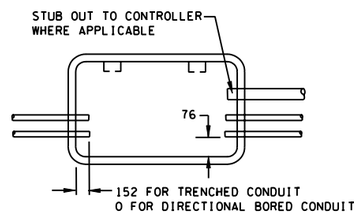
TYPE	LENGTH	WIDTH	DEPTH
A	914 mm	660 mm	813 mm
B	1245 mm	813 mm	914 mm

TYPE "A" FIBER OPTIC PULLBOXES ARE TO BE USED WHEN NO SPLICING IS REQUIRED IN THE PULLBOX.

TYPE "B" FIBER OPTIC PULLBOXES ARE TO BE USED WHEN SPLICING IS REQUIRED IN THE PULLBOX.



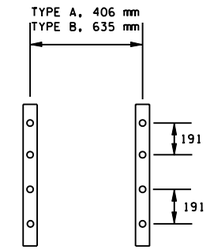
SIDE VIEW



TOP VIEW

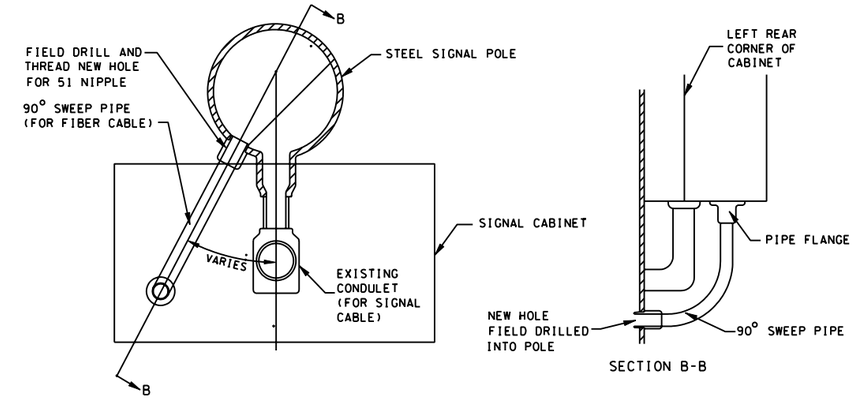
FIBER OPTIC PULLBOX DETAILS (TYPICAL)

NOTES:
1. NOTCHES SHALL BE PROVIDED FOR REMOVING THE COVER.
2. COVER SHALL BOLT DOWN.
3. THE MESSAGE "TRAFFIC SIGNAL" IS TO BE INSCRIBED ON TOP OF THE COVER.
4. ASSEMBLY SHALL BE RATED FOR A MINIMUM STATIC LOAD OF 6804 kg OVER A 254 X 254 AREA AND PASS MINIMUM STATIC TEST LOAD OF 9979 kg.
5. CONDUIT TO USE LARGE RADIUS BENDS.
6. TYPE D COVER TO BE 2 PIECES.
7. INSTALL CONDUIT OPPOSITE OF CHANNEL RACKING.
8. INSTALL INCOMING CONDUIT BOTH VERTICALLY AND HORIZONTALLY PARALLEL TO CORRESPONDING EXITING CONDUIT.
9. GROUT COMPLETELY AROUND ALL CONDUIT ENTRIES TO THE FULL THICKNESS OF THE BOX WALL.
10. ALL CONDUIT SHALL ENTER THE PULL BOX LEVEL, STRAIGHT AND PERPENDICULAR TO THE WALL OF THE PULL BOX.
11. CONDUIT SHALL SLOPE AWAY FROM SIDES OF PULL BOX TO BORE OR TRENCH GRADE.



CHANNEL RACKING DETAILS

NOTES:
1. INSERTS TO BE CENTERED ON ONE WALL OF TYPE A & B BOXES, 142.9 FROM THE TOP OF EACH BOX.
2. TWO PIECE STEEL PIERCED CHANNEL 559 LONG. (UNISTRUT NO. P1000-H3 OR EQUAL) TO BE SUPPLIED WITH EACH BOX. CHANNEL TO BE PIERCED ON THREE SIDES.
3. BOLTS TO BE 12.7 mm x 19.1 mm LONG STAINLESS STEEL. 3.2 mm SPACERS TO BE PLACED BETWEEN CHANNELS AND WALL OF PULL BOX.
4. CHANNEL RACKING TO BE FACTORY INSTALLED.



DETAIL OF NEW CONDUIT SWEEP INTO BOTTOM OF POLE MOUNTED CABINET ON STEEL OR CONCRETE POLE

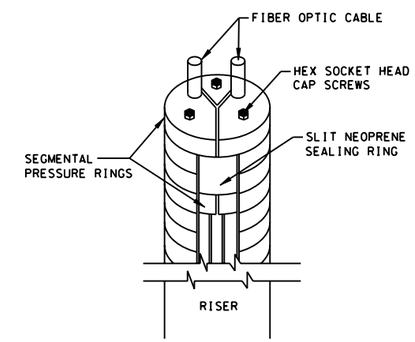
GENERAL NOTES

Ⓐ CONDUIT FOR FIBER OPTIC CABLE REQUIRED TO UTILIZE LARGE RADIUS BENDS (MIN. RADIUS 150 mm). NO ELBOW JOINTS ALLOWED.

Ⓑ FIBER OPTIC CABLE RUNS TO UTILIZE MIN. 38 mm CONDUIT.

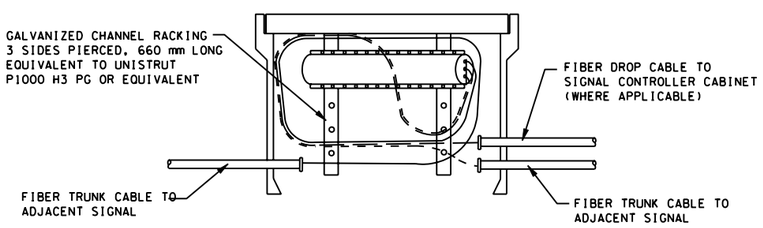
Ⓒ WHEN EXISTING PULLBOXES ARE TO BE REPLACED BY LARGER FIBER OPTIC PULLBOXES, THE COST OF REMOVAL TO BE INCLUDED IN ITEM FOR PULLBOX.

Ⓓ THE COST OF ALL MODIFICATIONS, ADJUSTMENTS, MATERIALS, MOUNTING HARDWARE, ETC. TO BE INCLUDED IN OTHER ITEMS, UNLESS A DIRECT PAY ITEM IS PROVIDED.



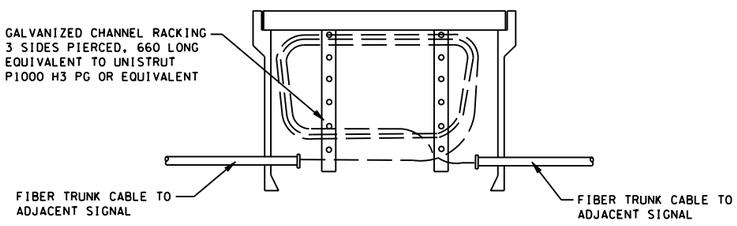
RISER SEALING BUSHING FOR FIBER OPTIC CABLE

NOTE: TOP OF BUSHING SHALL BE APPROXIMATELY 25 mm BELOW MESSENGER ATTACHMENT HEIGHT.



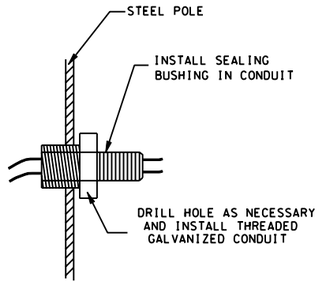
FIBER OPTIC SPLICE CLOSURE TYPE B PULL BOX

NOTES:
1. CABLES SHALL BE DRESSED IN A COMMON BUNDLE EVERY 914 mm WITH UV RESISTANT NYLON CABLE TIES OR ELECTRICAL TAPE.
2. SECURE CABLE SLACK AND CLOSURE TO CHANNEL RACKING VIA UV RESISTANT BLACK NYLON 54 kg (MIN.) TENSILE STRENGTH CABLE TIES.
3. MAINTAIN MINIMUM BEND RADIUS (ACCORDING TO MANUFACTURERS SPECIFICATIONS FOR CABLE AT REST) FOR LARGEST CABLE IN BUNDLE.
4. MAINTAIN 152 mm CLEARANCE BETWEEN TOP OF PULL BOX AND CABLE/ CLOSURE.
5. ROUTE CABLE EXITING CONDUIT AS TO NOT INTERFERE WITH FUTURE USE OF EMPTY CONDUIT.



FIBER OPTIC CLOSURE TYPE A PULL BOX

NOTES:
1. SECURE CABLE SLACK AND CLOSURE TO CHANNEL RACKING VIA UV RESISTANT BLACK NYLON 54 kg (MIN.) TENSILE STRENGTH CABLE TIES.
2. MAINTAIN MINIMUM BEND RADIUS (ACCORDING TO MANUFACTURERS SPECIFICATIONS FOR CABLE AT REST) FOR LARGEST CABLE IN BUNDLE.
3. MAINTAIN 152 mm CLEARANCE BETWEEN TOP OF PULL BOX AND CABLE/ CLOSURE.
4. ROUTE CABLE EXITING CONDUIT AS TO NOT INTERFERE WITH FUTURE USE OF EMPTY CONDUIT.
5. CABLE SLACK SHALL NOT BE STORED ON THE FLOOR OF THE PULL BOX.



FIBER ENTRANCE TO EXISTING STEEL POLES

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

☐ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC PULL BOX, CABINET & POLE DETAILS

7-29-04 | TM-FO-4

11/3/2004
$$$$DGNSPEC$$$$