

- DIRECTION OF FIBER OPTIC CABLE RUN (BACKBONE AND LATERAL CABLES)
- DEVICE ATTACHED (LATERAL CABLE)
- FOOTAGE MEASUREMENT AT PULL BOX OR ITS MANHOLE LOCATION (BACKBONE AND LATERAL CABLES)
- TYPE OF CABLE (BACKBONE AND LATERAL CABLES)
- FIBER MANUFACTURER (BACKBONE AND LATERAL CABLES)
- NUMBER OF FIBERS IN CABLE (BACKBONE AND LATERAL CABLES)
- DATE OF INSTALLATION (BACKBONE AND LATERAL CABLES)

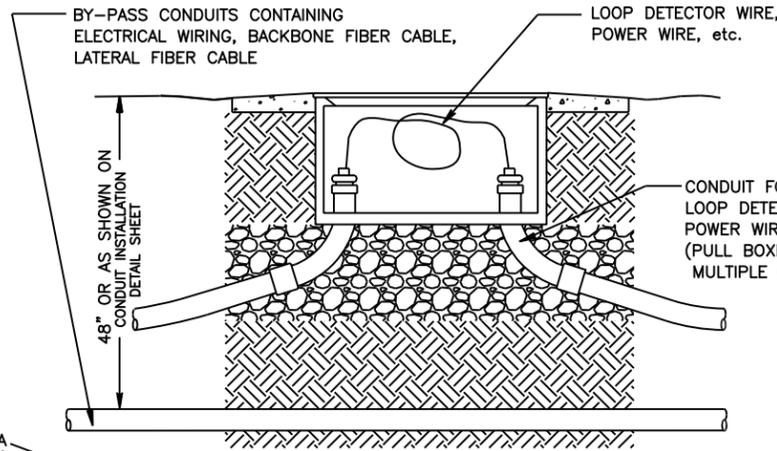
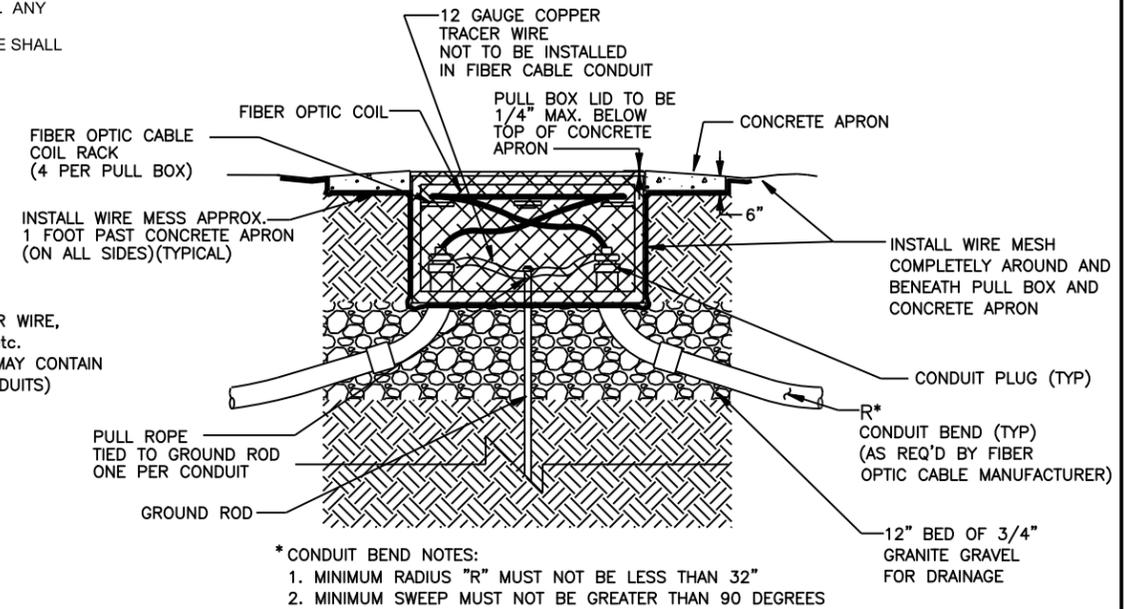
### FIBER CABLE LABEL

TO BE ATTACHED TO EACH FIBER OPTIC CABLE LOCATED IN ALL PULL BOX AND ITS MANHOLES

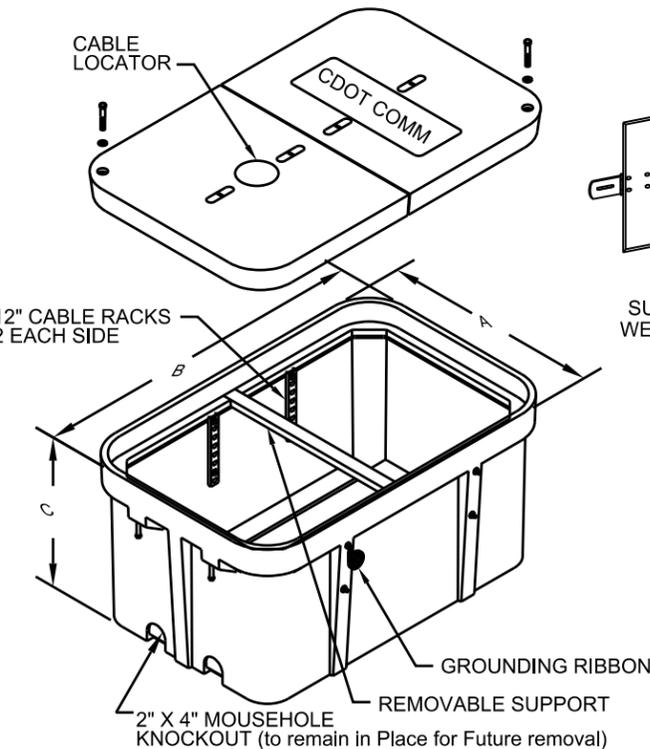
ITS PULL BOX TYPE	MINIMUM DIMENSIONS (Inches)			Knockout Mouse Hole Type
	A	B	C	
PULL BOX - (13" x 24" x 18")	13	24	18	2
PULL BOX - (24" x 36" x 24")	24	36	24	4
PULL BOX - (36" x 40" x 24")	36	40	24	4
PULL BOX - (SURFACE MOUNTED)	24	24	8	NA

### PULL BOX NOTES:

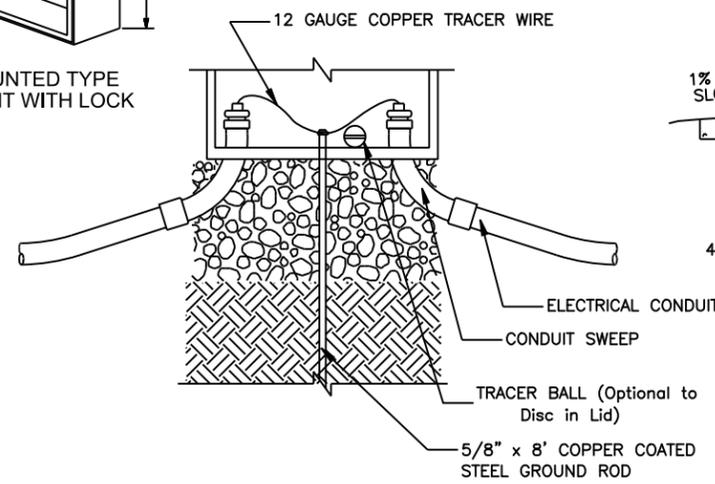
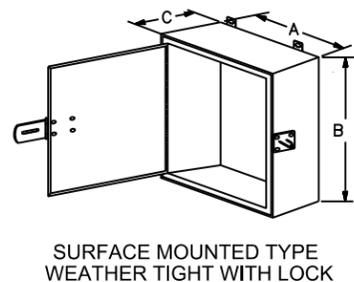
- CONDUITS DEPICTED ON THIS SHEET ARE REPRESENTATIVE ONLY. EXACT NUMBER OF CONDUITS INSTALLED AND CONDUIT SIZE SHALL BE AS TABULATED AND SHOWN ON THE PLANS.
- DESIGNATION FOR THE INSTALLTION OF ELECTRICAL WIRING AND FIBER OPTIC CABLE IN THE BACKBONE CONDUIT SYSTEM IS DESCRIBED IN THE PROJECT SPECIFICATIONS.
- CONDUIT CENTERLINE SHALL BE ALIGNED WITHIN THE PULL BOX TO FACILITATE FIBER OPTIC CABLE PULLING.
- CONDUIT PLUGS SHALL BE INSTALLED IN ALL CONDUITS, BOTH WITH AND WITHOUT WIRE OR CABLE AND SHALL BE INCLUDED IN THE COST OF ELECTRICAL CONDUIT ITEM.
- WEATHERPROOF TAGS SHALL BE INSTALLED ON ALL FIBER CABLES AND SHALL BE INCLUDED IN THE COST OF ELECTRICAL CONDUIT ITEM.
- TRACER WIRE AND PULL ROPE SHALL BE INCLUDED IN THE COST OF ELECTRICAL CONDUIT ITEM.
  - MAIN BACKBONE AND LATERAL FIBER CABLE CONDUIT -
  - IF INSTALLATION INCLUDES MULTIPLE RUNS OF CONDUIT, PULL ROPE SHALL BE INSTALLED IN EACH INDIVIDUAL CONDUIT. TRACER WIRE SHALL BE INSTALLED IN ONLY ONE CONDUIT. ANY CONDUIT CONTAINING FIBER OPTIC CABLE SHALL NOT HAVE TRACER WIRE INSTALLED.
  - IF INSTALLATION INCLUDES ONLY ONE RUN OF CONDUIT, PULL ROPE AND TRACER WIRE SHALL BE INSTALLED IN SAME CONDUIT AS FIBER CABLE.
- SEE 612 - MARKER SPECIFICATION FOR TRACER BALL REQUIREMENTS
- ALL PULL BOX TYPES SHALL BE PAID FOR UNDER THE CORRESPONDING PULL BOX ITEM, AND SHALL BE SIZED AS TABULATED AND SHOWN IN THE PLANS.
- PULL BOXES SHALL HAVE A CONCRETE APRON SLOPED AWAY FROM PULL BOX OPENING. THE COST OF THE CONCRETE APRON SHALL BE PAID FOR AS PART OF PULL BOX ITEM.
- SEE PROJECT SPECIFICATIONS FOR THE QUANTITY OF BOTH FIBER OPTIC BACKBONE AND LATERAL CABLE TO BE COILED IN EACH PUL BOX.
- FIBER OPTIC CABLE COILS WITHIN PULL BOXES SHALL BE TIED TO EACH CABLE RACK. PLASTIC WIRE TIES SHALL NOT BE ALLOWED. CAUTION SHALL BE TAKEN TO COIL THE FIBER CABLE PER MANUFACTURER'S RECOMMENDATIONS.
- ALL WORK TO INSTALL PULL BOX SHALL INCLUDE BUT NOT BE LIMITED TO SAW CUTTING OF PAVEMENT, REMOVAL OF PAVEMENT, CONCRETE, EARTHWORK, ALL LANDSCAPE RESTORATION AND SHALL BE PAID FOR AS PART OF PULL BOX. ALL MATERIAL SHALL BE CONTAINED AND NOT ALLOWED TO RUN OFF SITE.
- PULL BOX TYPES AS DEPICTED ON THIS PROJECT DETAIL SHEET SHALL NOT BE INSTALLED IN THE ASPHALT OR CONCRETE SHOULDER OF THE ROADWAY.



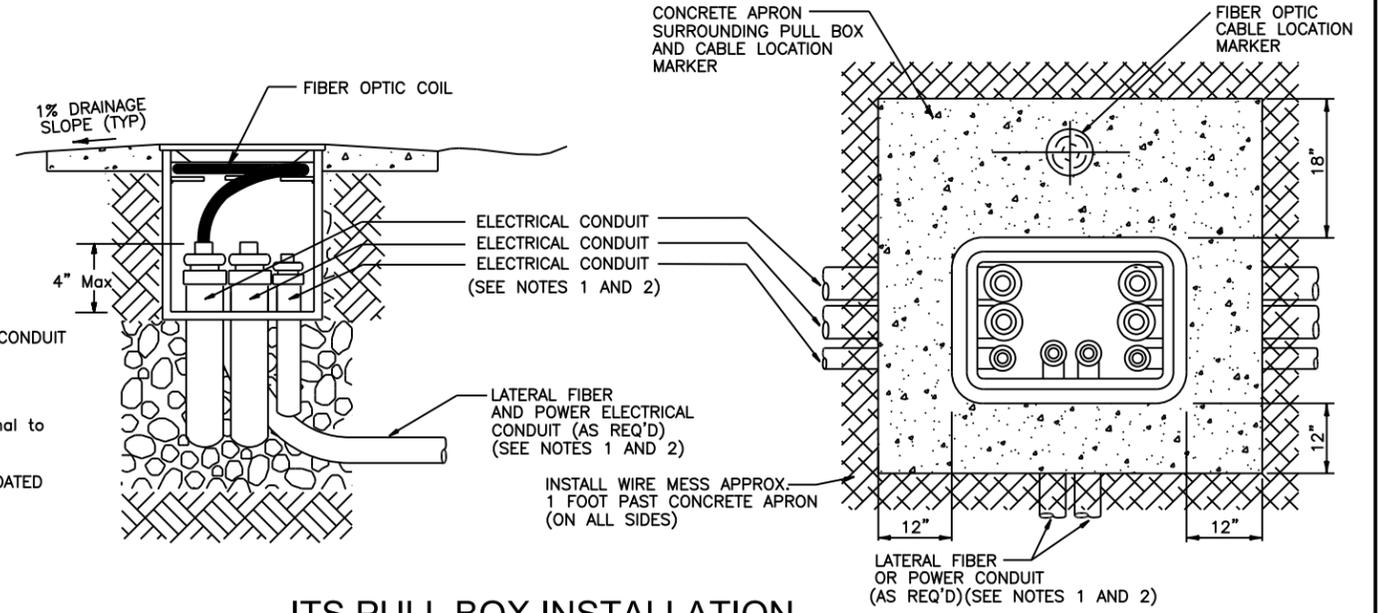
### CONDUIT BYPASS DETAIL



### 2' X 3' BOX (or LARGER)



### GROUNDING DETAIL



### ITS PULL BOX INSTALLATION

Print Date: 10/5/2012	<b>Sheet Revisions</b>			Colorado Department of Transportation		As Constructed		PULL BOX Project Standard		Project No./Code	
File Name: Pull Box Standard.dgn	Date:	Comments	Init.	425 C Corporate Circle Golden, CO 80401 Phone: 303-512-5801 FAX: 303-512-5878		No Revisions:		Designer: Wjkjr		BR 0061-083	
Horiz. Scale: 1:200				HQ ITS Branch		Revised:		Detailer: JKS		18838	
Unit Information				JKS		Void:		Sheet Subset: ITS		Sheet Number	
								Structure Numbers: X-XX-XX			
								Subset Sheets: 1 of 1			