

Reut1Ani T79CLW161FRW047 TMS
 PLOTTED: 6/7/2022 10:22:52 AM
 pw: \\pw81.ad.dot.state.mn.us:cddp\Documents\Projects\DM_R05\Non_Project\FrOps\Detail\Drawings\FIBER\FIBERDETAILS.dtl.dgn

INDEX OF REFRACTION

PROVIDE CABLE MANUFACTURERS INDEX OF REFRACTION USED FOR TESTING ON PROJECT.

⤵ = FURNISHED SPLICE, NO SPLICE OTRD READING REQUIRED AT THIS LOCATION

⊗ X.X POWER METER/OTDR LAUNCH TEST POINT
 ⊗ INSERT OPTICAL LINK LOSS IN dB
 (TEST MULTI MODE FIBER AT 1300)
 (TEST SINGLE MODE FIBER AT 1550)



INSERT OTRD SPLICE LOSS SHOT FROM THIS DIRECTION

⊗ = FO CABLE SPLICE POINT & OTRD TEST SPLICE READING

⊗ = OTRD TEST SPLICE READING ON INPLACE CABLE

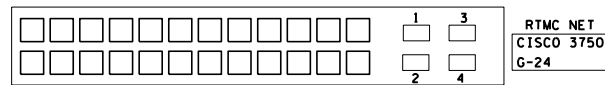
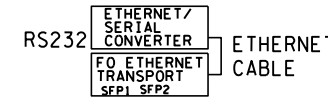
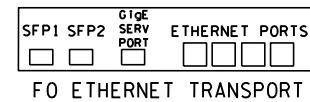
PIGTAIL OTRD LENGTH
 km PROVIDE TRUNK AND PIGTAIL OTRD FIBER LENGTH MEASUREMENTS USING OTRD READINGS FROM CONNECTORS AT SHELTER OR CABINETS TO SPLICE POINTS IN VAULTS

OTDR LENGTH
 km TO SHELTER

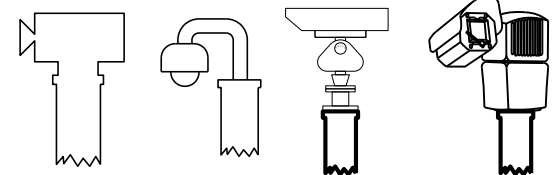
FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____
 VAULT ENTRY _____
 PROVIDE TRUNK CABLE OUTER JACKET LENGTH MARKINGS AT ENTRY TO VAULT AND AT ENTRY TO OUTDOOR FIBER SPLICE ENCLOSURE



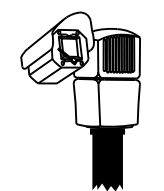
FACTORY PRE-TERMINATED/ARMORED FIBER OPTIC PIGTAIL



ETHERNET SWITCH
 COMMON ETHERNET EQUIPMENT

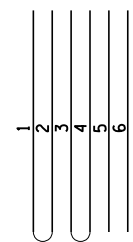
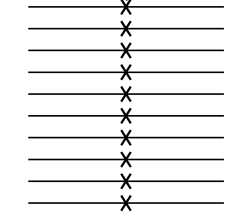


EXISTING CAMERA WITH PAN AND TILT UNIT



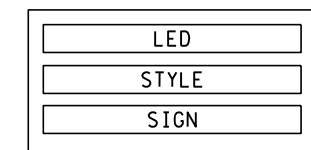
PROPOSED CAMERA WITH PAN AND TILT UNIT (BY OTHERS)

EXISTING FO CABLE SPLICE POINT



FIBER OPTIC PIGTAIL SPLICE DIAGRAM

(SPLICE UNUSED FIBERS TOGETHER IN THE SPLICE VAULT SO THAT THE FIBERS CAN BE TESTED)



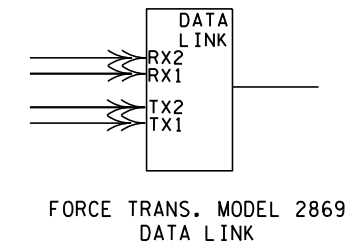
DYNAMIC MESSAGE SIGN



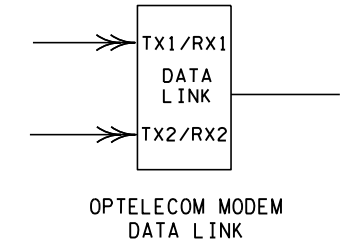
FIBER OPTIC PATCHCORD



TWISTED PAIR INTERCONNECT



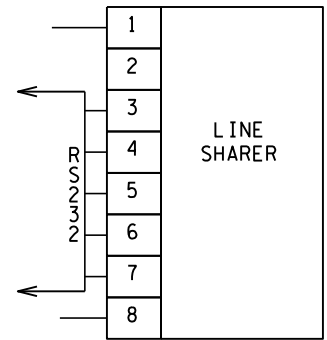
FORCE TRANS. MODEL 2869 DATA LINK



OPTELECOM MODEM DATA LINK

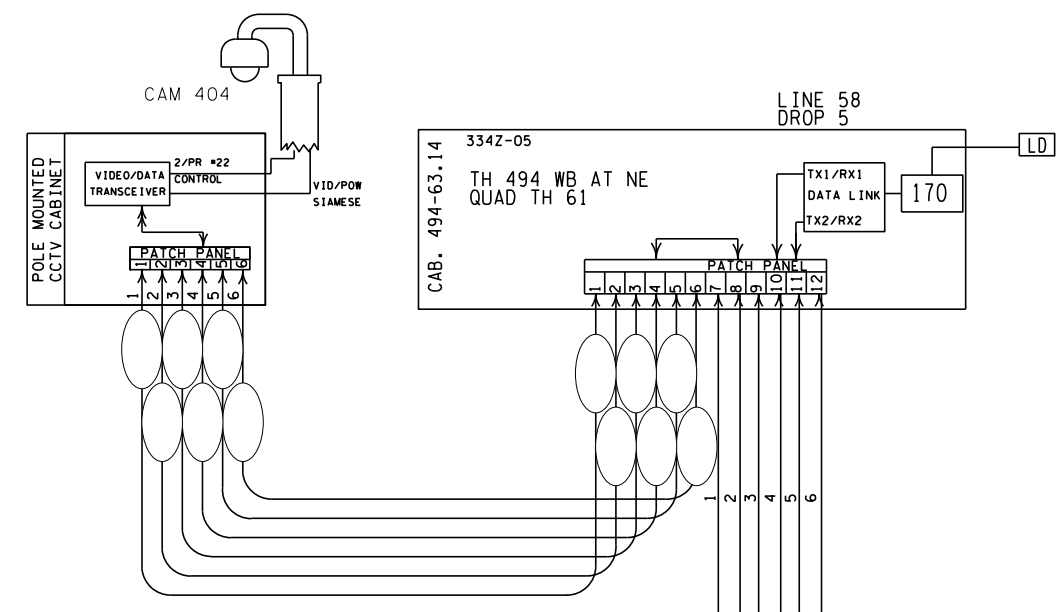


VIDEO & DATA TRANSCEIVER TRANSMITTER



RS 232 LINE SHARER

- 170 170 CONTROLLER
- DMS CHANGEABLE MESSAGE SIGN
- FLS FLASHER
- RCS RAMP CONTROL SIGNAL
- LDS LOOP DETECTOR STATION
- LD LOOP DETECTOR(S)
- ILCS INTELLIGENT LANE CONTROL SIGN



NOTE: CABINET TO CABINET PIGTAILS REQUIRE BOTH POWERMETER AND OTRD TESTING OF CABLE

LEGEND FOR COMMUNICATION SCHEMATICS

REVISED 6/27/18	REV. NO.	DATE: / /
	REV. NO.	DATE: / /

CERTIFIED BY _____ LIC. NO. 12345 DATE 2021
 LICENSED PROFESSIONAL ENGINEER

STATE PROJ. NO. XXXX-XXX (TH XXX) SHEET NO. XXXX? OF XXXXX SHEETS