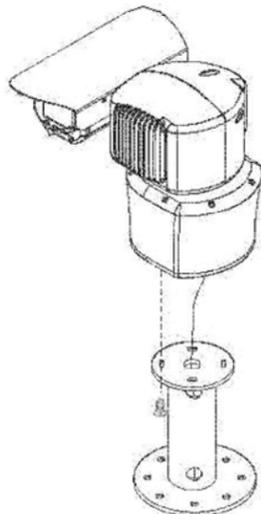


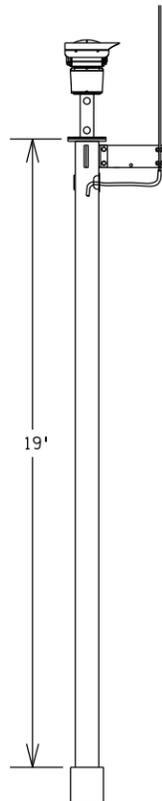
ISOMETRIC VIEW- CAMERA & MOUNT

(STATE FURNISHED)

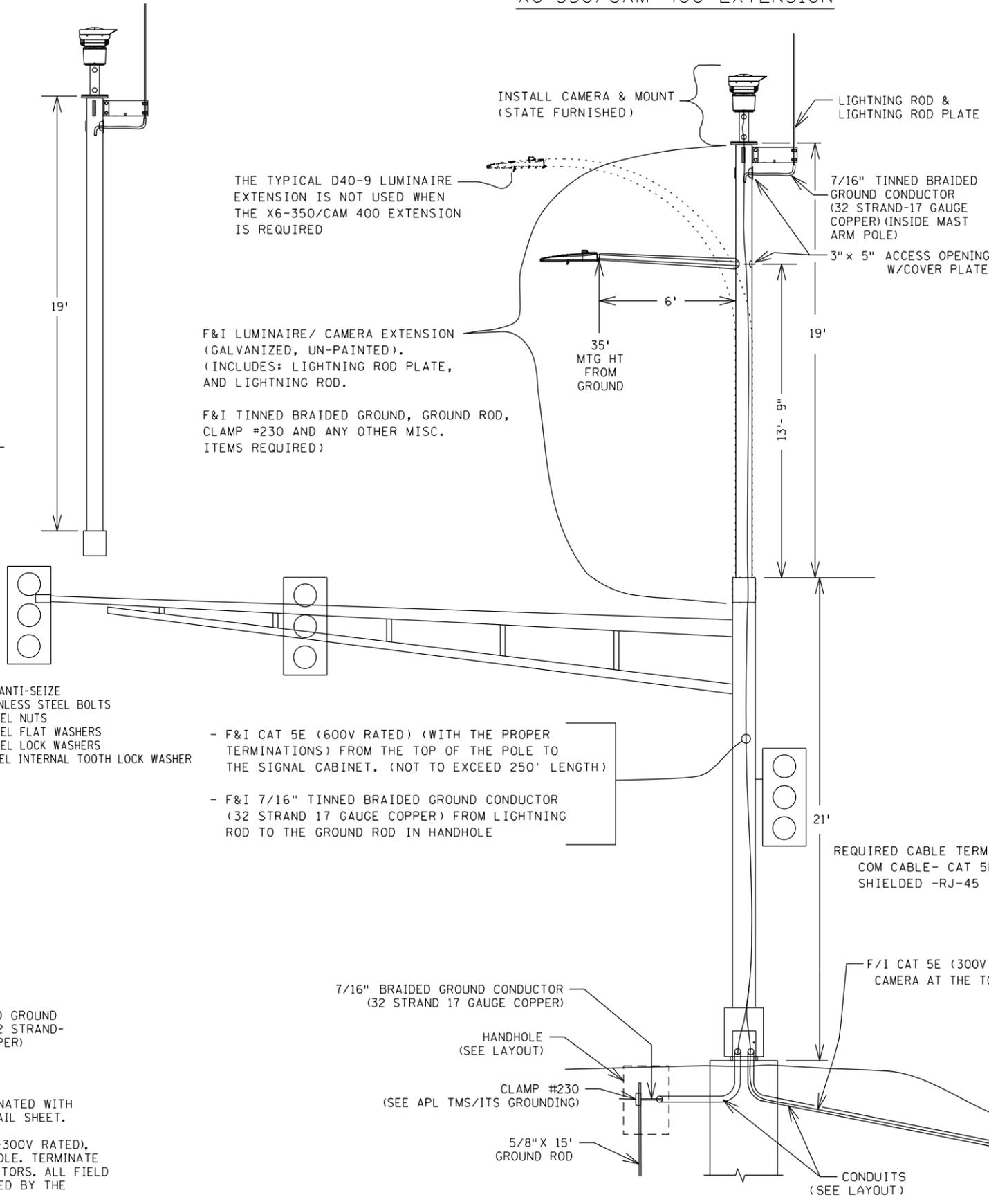


X-400 CAMERA EXTENSION

(USED WHEN A LUMINAIRE IS NOT REQUIRED)



X6-350/CAM 400 EXTENSION



THE TYPICAL D40-9 LUMINAIRE EXTENSION IS NOT USED WHEN THE X6-350/CAM 400 EXTENSION IS REQUIRED

F&I LUMINAIRE/ CAMERA EXTENSION (GALVANIZED, UN-PAINTED). (INCLUDES: LIGHTNING ROD PLATE, AND LIGHTNING ROD.

F&I TINNED BRAIDED GROUND, GROUND ROD, CLAMP #230 AND ANY OTHER MISC. ITEMS REQUIRED)

- F&I CAT 5E (600V RATED) (WITH THE PROPER TERMINATIONS) FROM THE TOP OF THE POLE TO THE SIGNAL CABINET. (NOT TO EXCEED 250' LENGTH)

- F&I 7/16" TINNED BRAIDED GROUND CONDUCTOR (32 STRAND 17 GAUGE COPPER) FROM LIGHTNING ROD TO THE GROUND ROD IN HANDHOLE

7/16" BRAIDED GROUND CONDUCTOR (32 STRAND 17 GAUGE COPPER)

HANDHOLE (SEE LAYOUT)

CLAMP #230 (SEE APL TMS/ITS GROUNDING)

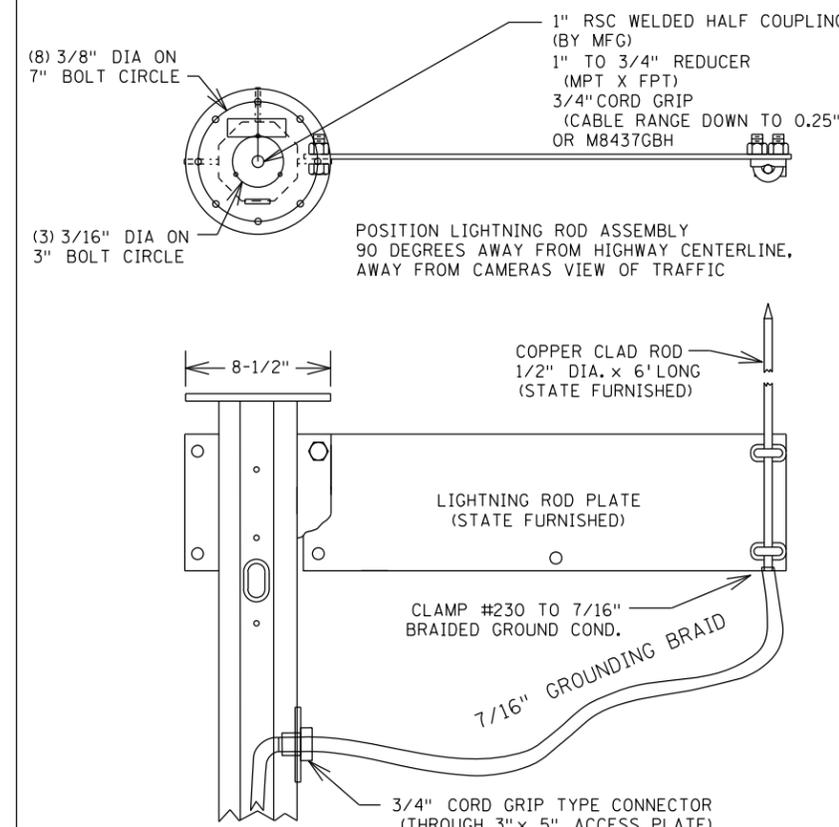
5/8" X 15' GROUND ROD

CONDUITS (SEE LAYOUT)

HANDHOLE

CORE DRILL FOR CONDUIT WHERE REQUIRED

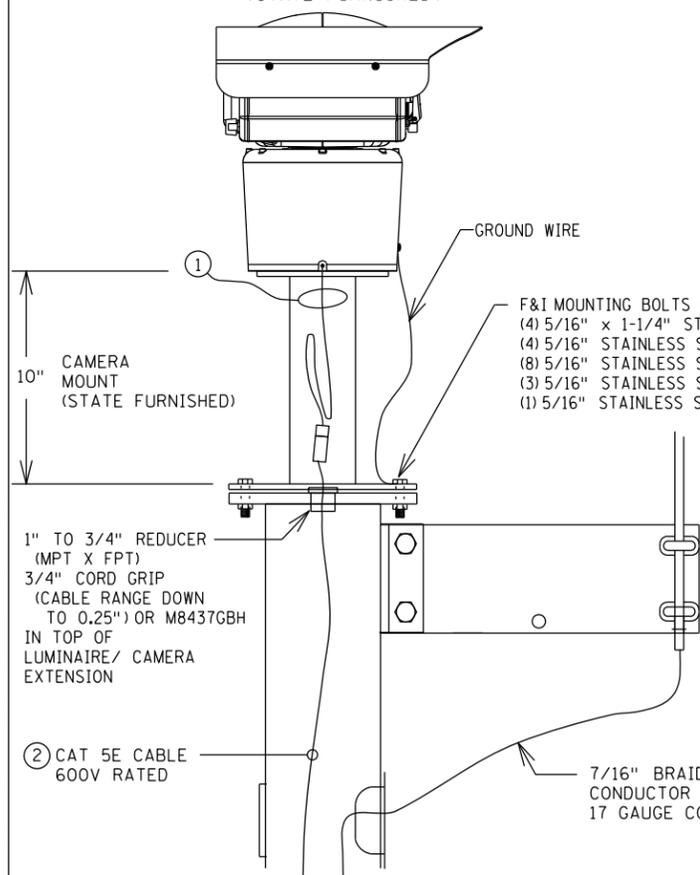
EXTENSION TOP & LIGHTNING PROTECTION DETAIL



- NOTES:
- 1) FURNISH & INSTALL 7/16" TINNED BRAIDED GROUND CONDUCTOR INSIDE MAST ARM POLE AND THROUGH INPLACE CONDUIT TO CLOSEST HANDHOLE (SEE LAYOUT).
 - 2) CONTRACTOR SHALL CLAMP #230 7/16" BRAIDED GROUND WIRE TO GROUND ROD IN HANDHOLE.
 - 3) NO SPLICES ALLOWED IN 7/16" TINNED BRAIDED GROUND WIRE.
 - 4) CONTRACTOR SHALL CUT A 3/4 INCH KNOCK OUT HOLE IN THE INSPECTION PLATE NEAR THE CAMERA AND PLACE A 3/4 INCH CORD GRIP TYPE FITTING TO RUN THE 7/16 INCH TINNED BRAIDED GROUND CONDUCTOR INTO THE POLE.

CAMERA & MOUNT AT TOP OF EXTENSION

IP CAMERA (STATE FURNISHED)



F&I MOUNTING BOLTS W/ANTI-SEIZE
 (4) 5/16" x 1-1/4" STAINLESS STEEL BOLTS
 (4) 5/16" STAINLESS STEEL NUTS
 (8) 5/16" STAINLESS STEEL FLAT WASHERS
 (3) 5/16" STAINLESS STEEL LOCK WASHERS
 (1) 5/16" STAINLESS STEEL INTERNAL TOOTH LOCK WASHER

1" TO 3/4" REDUCER (MPT X FPT)
 3/4" CORD GRIP (CABLE RANGE DOWN TO 0.25") OR M8437GBH
 IN TOP OF LUMINAIRE/ CAMERA EXTENSION

2) CAT 5E CABLE 600V RATED

7/16" BRAIDED GROUND CONDUCTOR (32 STRAND-17 GAUGE COPPER)

1) THE CAMERA IS SUPPLIED WITH 20" CABLE PIGTAIL. IT IS TERMINATED WITH A RJ45 PLUG AS INDICATED ON THE IP CAMERA CONNECTOR DETAIL SHEET.

2) F&I ETHERNET CABLE IN ACCORDANCE WITH 3815.2C.6.d (CAT 5E -300V RATED), BETWEEN THE SIGNAL CONTROL CABINET AND THE TOP OF THE POLE. TERMINATE THE END OF THE CABLE WITH UNSHIELDED RJ-45 (T-568B) CONNECTORS. ALL FIELD TERMINATIONS/CONNECTORS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER USING THE SPECIFIED INSTALLATION TOOL(S).

REQUIRED CABLE TERMINATION:
 COM CABLE- CAT 5E (600V RATED)
 SHIELDED -RJ-45 (T-568B)

PROPOSED SIGNAL CONTROL CABINET (STATE FURNISHED OR INPLACE)

STATE FURNISHED & INSTALLED:
 CAMERA POWER OVER ETHERNET (POE) INJECTOR
 PATCH CORDS
 SIGNAL CONTROLLER
 MMU
 ETHERNET SWITCH

CONDUIT W/6-SM F/O

BY	DATE	REVISIONS

SYSTEM ID: _____ T.E. _____
 METER ADDRESS: _____
 OLD SYSTEM ID: _____

LUMINAIRE/CAMERA EXTENSION DETAIL
 TYPE X6-350/CAM400 LUMINAIRE EXTENSION
 AND X-400 CAMERA EXTENSION

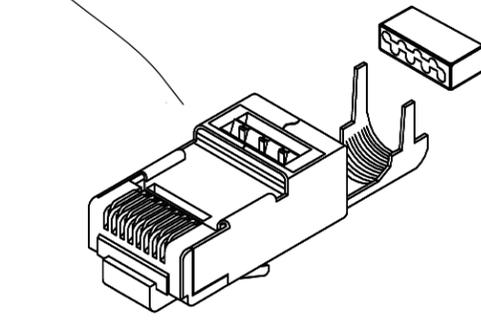
S.A.P. NO. _____ DRAWN BY: _____ CKD BY: _____ DATE: 09-22-20
 CERTIFIED BY: _____ LIC. NO. _____ DATE: _____
 STATE PROJ. NO. _____ (T.H. _____ SHEET NO. _____ OF _____ SHEETS

DISTRICT #: @DISTRICT@
 PLOT NAME: @PLOT\$NAME@
 PATH & FILENAME: @PATH\$FILENAME@
 PLOTTED/REVISED: @DATE@

PLOTTED/REVISED: \$\$\$@DATE@\$\$\$

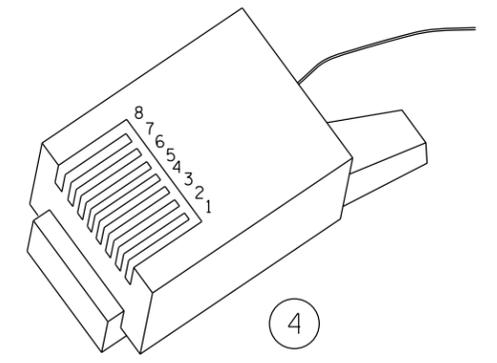
② CAT 5E (600V RATED) CABLE TERMINATION

F&I RJ45 CABLE TERMINATION - FOR HIGH SPEED APPLICATION. CAT 6 UNSHIELDED MODULAR PLUG, RJ45 (8 CONDUCTOR), GOLD PLATED CONTACTS, ACCEPTS CABLES WITH DIAMETERS UP TO 0.310 INCHES. MEETS CATERGORY 6 ANSI/EIA 568-C.2



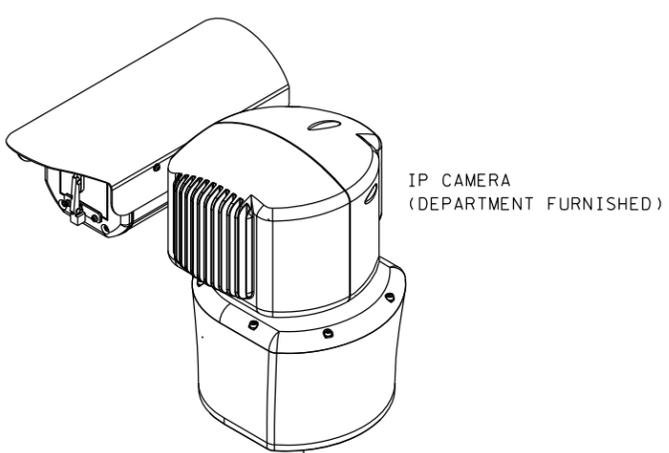
③ CAT 5E (600V RATED)

F&I ETHERNET CABLE CAT 5E IN ACCORDANCE WITH 3815.2C.6d. "ETHERNET CABLE (OUTSIDE PLANT)" L-COM PART NO. TFDL5089 MEETS THE REQUIREMENTS. QUABBIN PART NO. 5089 MEETS THE REQUIREMENTS.



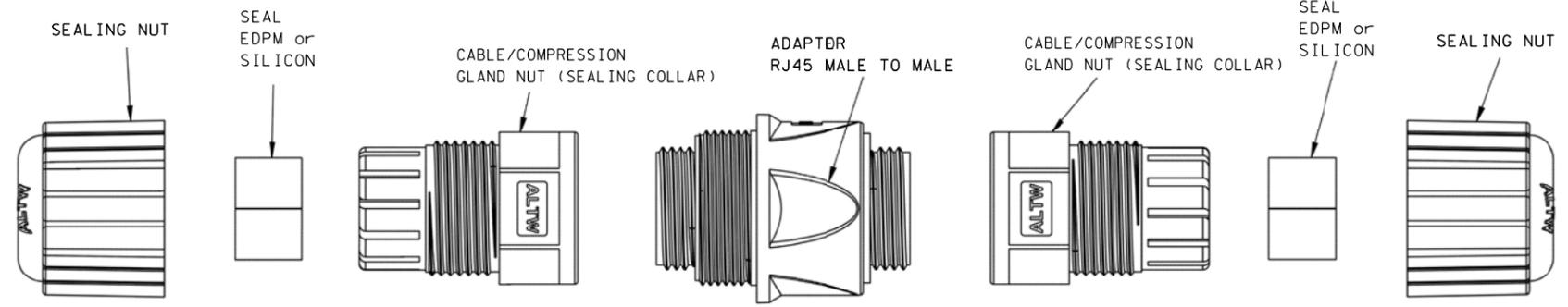
① WATERPROOF SHIELDED RJ-45 (MALE TO MALE) INLINE COUPLER/ADAPTER

IP67
COPPER ALLOY CONTACT MATERIAL
GOLD CONTACT PLATING
NYLON HOUSING
AMPHENOL PART NO. RDP-00BFFA-SLM7001 &
VPI PART NO. CAT5E-WTP-FF MEETS REQUIREMENTS



IP CAMERA (DEPARTMENT FURNISHED)

FACTORY INSTALLED 20" PIGTAIL WITH CONNECTOR (RJ-45 PLUG)



1	2	3	4	5	6	7	8
WHITE/ORANGE	ORANGE	WHITE/GREEN	BLUE	WHITE/BLUE	GREEN	WHITE/BROWN	BROWN
CAT 6 RJ-45 PLUG							
T-568B							

DISTRICT #: \$\$\$@DISTRICT@\$\$
PLOT NAME: \$\$\$@PLOT\$NAME@\$\$
PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$

ETHERNET CABLE 4/PR

RJ-45 PLUG (T-568B) (SUPPLIED WITH CAMERA)

CONNECTORS LOCATED AT THE TOP OF THE SIGNAL POLE (IN CAMERA MOUNT)

④ F&I SHIELDED RJ45 CABLE TERMINATION (CONNECTOR)

CONNECTOR LOCATED IN THE SIGNAL CABINET

③ INSTALL BETWEEN THE SIGNAL CONTROL CABINET AND THE TOP OF THE SIGNAL POLE. TERMINATE THE ENDS OF THE CABLE WITH RJ-45 (T-568B) CONNECTORS. INSTALL FIELD TERMINATIONS/CONNECTORS AS RECOMMENDED BY THE MANUFACTURER, AND USE THE SPECIFIED INSTALLATION TOOL(S).

BY	DATE	REVISIONS	SYSTEM ID: _____ T.E. _____	S.A.P. NO. _____	DRAWN BY: _____	CKD BY: _____	DATE: 09-22-20
			METER ADDRESS: _____	CERTIFIED BY: _____	LIC. NO. _____	DATE: _____	
			OLD SYSTEM ID: _____	STATE PROJ. NO. _____ (T.H. _____)	SHEET NO. _____	OF _____	SHEETS

IP CAMERA CONNECTORS DETAIL