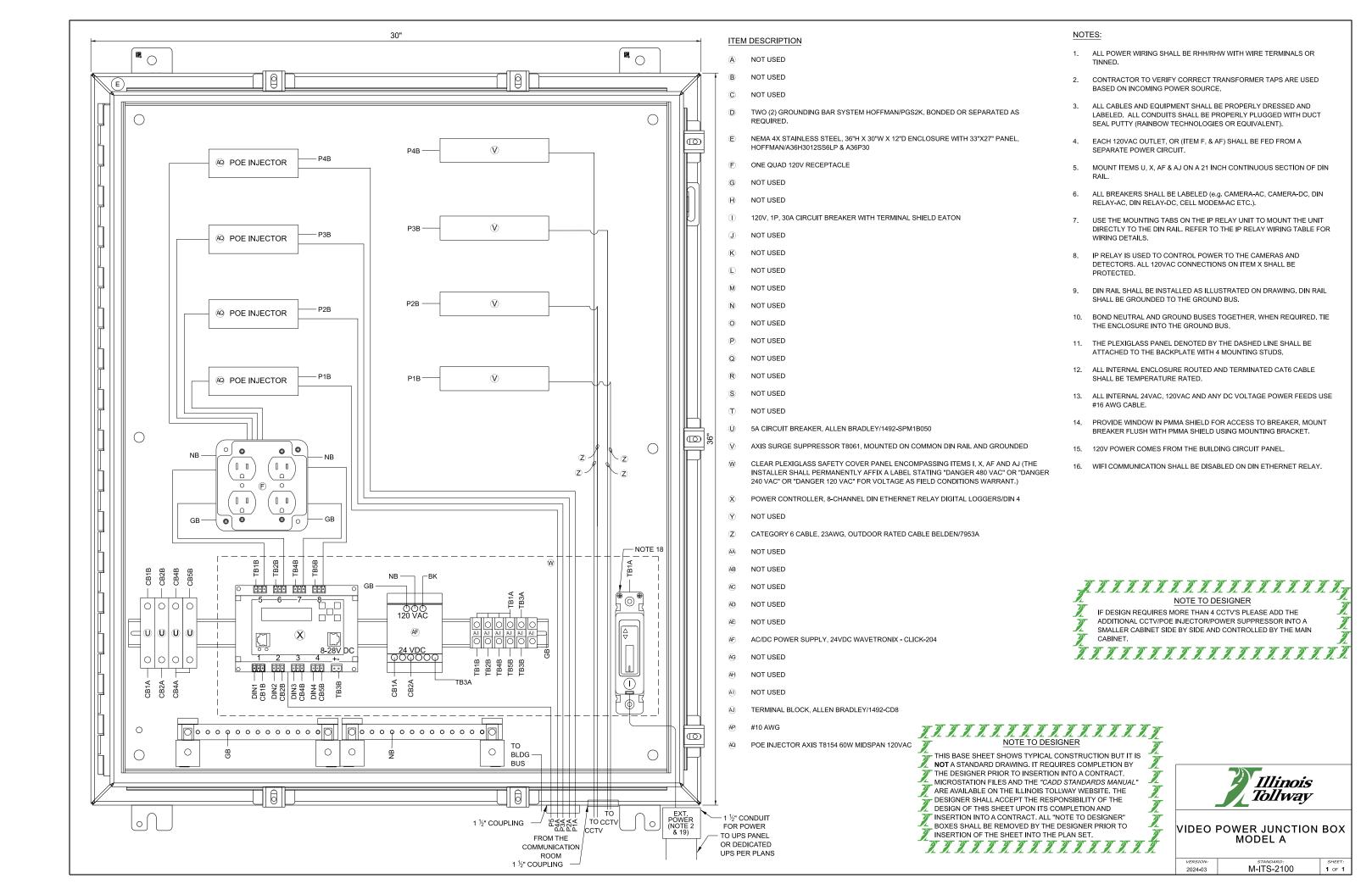
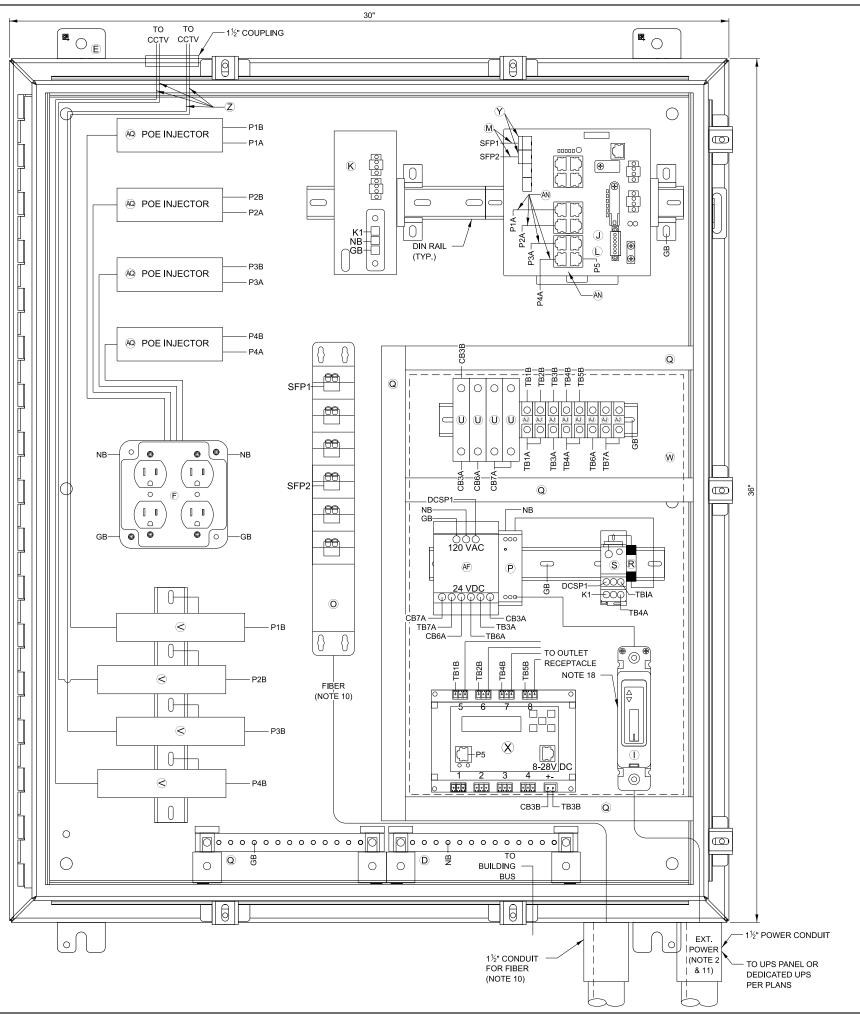
Illinois Tollway Base Sheet Revisions

Section M	Base Sheet Drawings			
	Drawing	Modification Summary	Effective: 03-01-2024	
	VIDEO POWER JUNCTION BOX - Series 2100			
	M-ITS-2100	M-ITS-2100 Video Power Junction Box Model A		
		Added a solid line to shop the cutout of the main breaker through	n the Plexiglass protective cover	
		Removed empty box shown near 120VAC to 24VDC transforme	r	
		Added missing line on terminal board near TB1A		
	M-ITS-2101	ITS-2101 Video Power Junction Box Model B		
		Added a solid line to shop the cutout of the main breaker through	n the Plexiglass protective cover	
		Connect SFP1 to port 1 and port 2 on Gator Patch		
		Connect SFP2 to port 7 and port 8 on Gator Patch		
		Relocate cable P5 to port on Cisco switch		
		Reverse SFP1 and SFP2 port on cisco switch		

New Sheet

Retired Standard





ITEM DESCRIPTION

- A NOT USED
- B NOT USED
- C NOT USED
- TWO (2) GROUNDING BAR SYSTEM HOFFMAN/PGS2K. BONDED OR SEPARATED AS REQUIRED.
- NEMA 4X STAINLESS STEEL, 36"H X 30"W X 12"D ENCLOSURE WITH 33"X27" PANEL, HOFFMANIA36H3012SS6LP & A36P30. IF VPJB IS INSTALLED INSIDE A BUILDING (ABOVE GROUND) THEN USE NEMA 1 CABINET, IF THE VPJB IS INSTALLED OUTDOOR OR IN A TUNNEL WHERE THERE IS A RISK OF WATER DRIPPING ONTO THE VPJB THEN USE NEMA 4X GRADE FOR VPJB.
- ONE QUAD 120V RECEPTACLE
- G NOT USED
- H) NOT USED
- 120V,1P, 30A CIRCUIT BREAKER WITH TERMINAL SHIELD
- EATON/HFD2030L & 625B229G07
- D NETWORK SWITCH CISCO IE-4000-8T4G-E
- K CISCO POWER SUPPLY, PWR-IE70W-PC-AC=
- IP SERVICES LICENSE: L-IE4000-RTU=
- METER SMFO LC-LC DUPLEX JUMPERS,
- CORNING/040402R5Z20002M
- NOT USED
- SMF PATCH PANEL WITH LC CONNECTORS FIBER CONNECTIONS G620U012LAN-100-0
- 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL
- PANDUIT WIRING DUCT (OR EQUIVALENT) PANDUIT/FIX1LG6 WITH COVER-C1LG6
- R 10 AMP FUSE, GOULD (MERSEN)/ATM-10
- S SPLICE BLOCK, ALTECH/38041
- ① NOT USED
- (I) 5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050
- (V) AXIS SURGE SUPPRESSOR T8061, MOUNTED ON COMMON DIN RAIL AND GROUNDED
- CLEAR PLEXIGLASS SAFETY COVER PANEL ENCOMPASSING ITEMS I, R, S, P, X & AF. (THE INSTALLER SHALL PERMANENTLY AFFIX A LABEL STATING "DANGER 480 VAC" OR "DANGER 240 VAC" OR "DANGER 120 VAC" FOR VOLTAGE AS FIELD CONDITIONS WARRANT.)
- POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4
- (2) CISCO GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES
- Z CATEGORY 6 CABLE, 23AWG, OUTDOOR RATED CABLE BELDEN/7953A
- NOT USED
- AB NOT USED
- NOT USED
- NOT USED
- ® NOT USED
- AC/DC POWER SUPPLY, 24VDC WAVETRONIX CLICK-204
- AG NOT USED
- AH NOT USED
- Al NOT USED
- (A) TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8
- NDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET
- MOT USED
- ® #10 AWG
- POE INJECTOR AXIS
- T8154 60W MIDSPAN
- 120VAC

NOTES:

- ALL POWER WIRING SHALL BE RHH/RHW WITH WIRE TERMINALS OR TINNED.
- CONTRACTOR TO VERIFY CORRECT TRANSFORMER TAPS ARE USED BASED ON INCOMING POWER SOURCE.
- ALL CABLES AND EQUIPMENT SHALL BE PROPERLY DRESSED AND LABELED. ALL CONDUITS SHALL BE PROPERLY PLUGGED WITH DUCT SEAL PUTTY (RAINBOW TECHNOLOGIES OR EQUIVALENT).
- EACH 120VAC OUTLET, OR (ITEM F, K, & AF) SHALL BE FED FROM A SEPARATE INPUT LINE.
- MOUNT ITEMS J & K ON A 15 INCH CONTINUOUS SECTION OF DIN RAIL. THE DIN RAIL SHALL BE INSTALLED WITH THE CENTER LINE NO LESS THAN 5 INCHES FROM ANY OBSTACLE ABOVE AND NO LESS THAN 4 INCHES FROM ANY OBSTACLE BELOW. ALL DIN RAIL SHALL BE GROUNDED.
- MOUNT ITEMS AJ & U ON A 9 INCH CONTINUOUS SECTION OF DIN RAIL.
- MOUNT ITEMS AF, P & S ON A 10 INCH CONTINUOUS SECTION OF DIN RAII
- ALL BREAKERS SHALL BE LABELED (e.g. CAMERA-AC, CAMERA-DC, DIN RELAY-AC, DIN RELAY-DC, CELL MODEM-AC ETC.).
- USE THE MOUNTING TABS ON THE IP RELAY UNIT TO MOUNT
 THE UNIT DIRECTLY TO THE BACK PLATE. REFER TO THE IP
 RELAY WIRING TABLE FOR WIRING DETAILS.
- 10. THE FIBER CABLE SHALL ENDURE MINOR BENDING AS IT RUNS FROM THE GATOR PATCH UP THROUGH THE LEFT MOST CONDUIT.
- 11. POWER FEED TO THE CISCO IE4000 SWITCH SHALL BE FROM THE 120VAC INPUT WHEN THE ENCLOSURE IS AC POWERED.
- 12. IP RELAY IS USED TO CONTROL POWER TO THE CAMERAS. ALL 120VAC CONNECTIONS ON ITEM X SHALL BE PROTECTED.
- DIN RAIL SHALL BE INSTALLED AS ILLUSTRATED ON DRAWING. DIN RAIL SHALL BE GROUNDED TO THE GROUND BUS.
- 14. BOND NEUTRAL AND GROUND BUSES TOGETHER, WHEN
- REQUIRED. TIE THE ENCLOSURE INTO THE GROUND BUS.

 15. THE PLEXIGLASS PANEL DENOTED BY THE DASHED LINE SHALL
- BE ATTACHED TO THE BACKPLATE WITH 4 MOUNTING STUDS.

 16. ALL INTERNAL ENCLOSURE ROUTED AND TERMINATED CAT6
 CABLE SHALL BE TEMPERATURE RATED.
- 17. ALL INTERNAL 24VAC, 120VAC AND ANY DC VOLTAGE POWER FEEDS USE #16 AWG CABLE
- PROVIDE WINDOW IN PMMA SHIELD FOR ACCESS TO BREAKER, MOUNT BREAKER FLUSH WITH PMMA SHIELD USING MOUNTING BRACKET.
- 19. NOT USED
- WIFI COMMUNICATION SHALL BE DISABLED ON DIN ETHERNET RELAY.







VIDEO POWER JUNCTION BOX MODEL B

VERSION: 2024-03

M-ITS-2101

SHEET: 1 OF 1