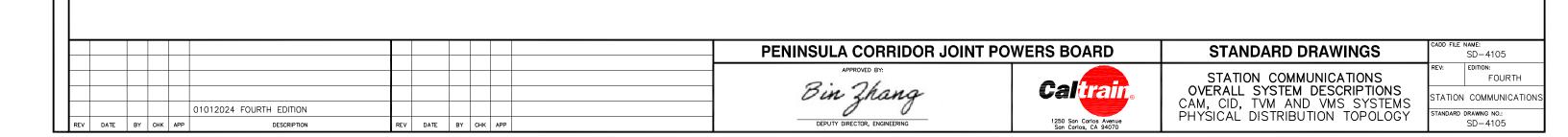


- 1. FOR NEW CONSTRUCTION AND REHABILITATION WORK, JPB OWNED FIBER OPTIC SHALL BE UTILIZED FOR STATION INTERFACE.
- 2. REFER TO DRAWING SD-4834 FOR 24F CABLE TERMINATION.
- SPECIFIC STATION DESIGN WILL DETERMINE THE QUANTITY OF DISTRIBUTION CABINETS. THE BACKBONE FIBER OPTIC CABLE SHALL BE A PHYSICALLY DIVERSE RING TOPOLOGY.
- 4. SEPARATE VIRTUAL LANS OF AT LEAST 100MB SHALL BE PARTITIONED FOR EACH TYPE OF SUBSYSTEM.
- 5. ACTUAL QUANTITY OF SUBSYSTEM DEVICES SHALL BE BASED ON SPECIFIC STATION DESIGN.
- 6. CID NETWORK DEVICES WILL BE SUPPLIED AND PROGRAMMED BY CLIPPER.



NUMBER OF SINGLE-MODE

DISTRIBUTION CABINET

MULTIPLE DEVICES

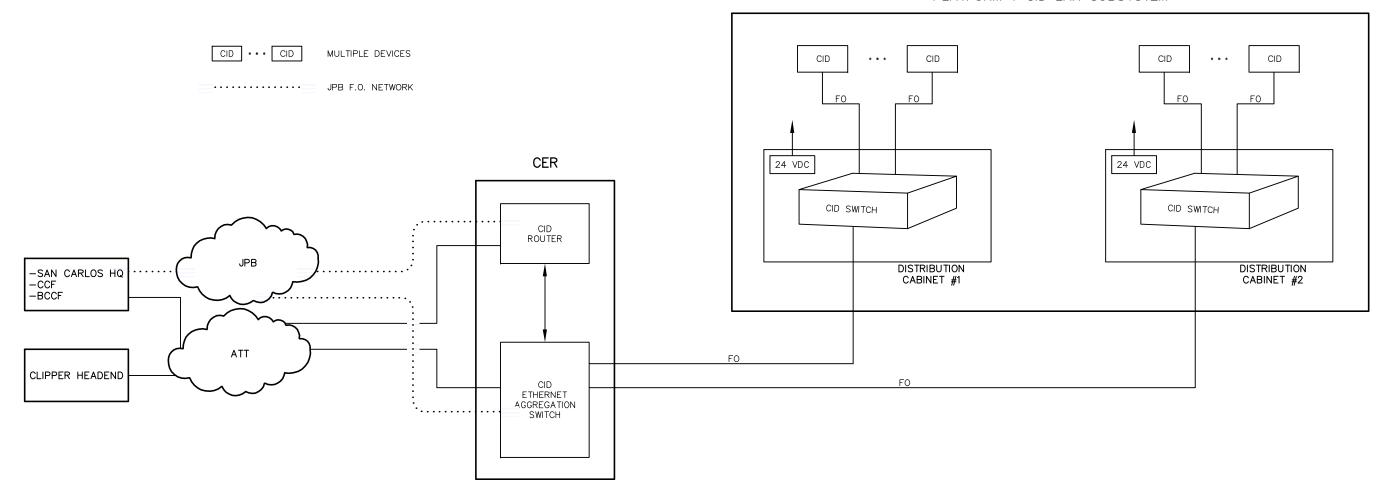
JPB F.O. NETWORK

OPTICAL FIBERS

DEV ••• DEV

_.

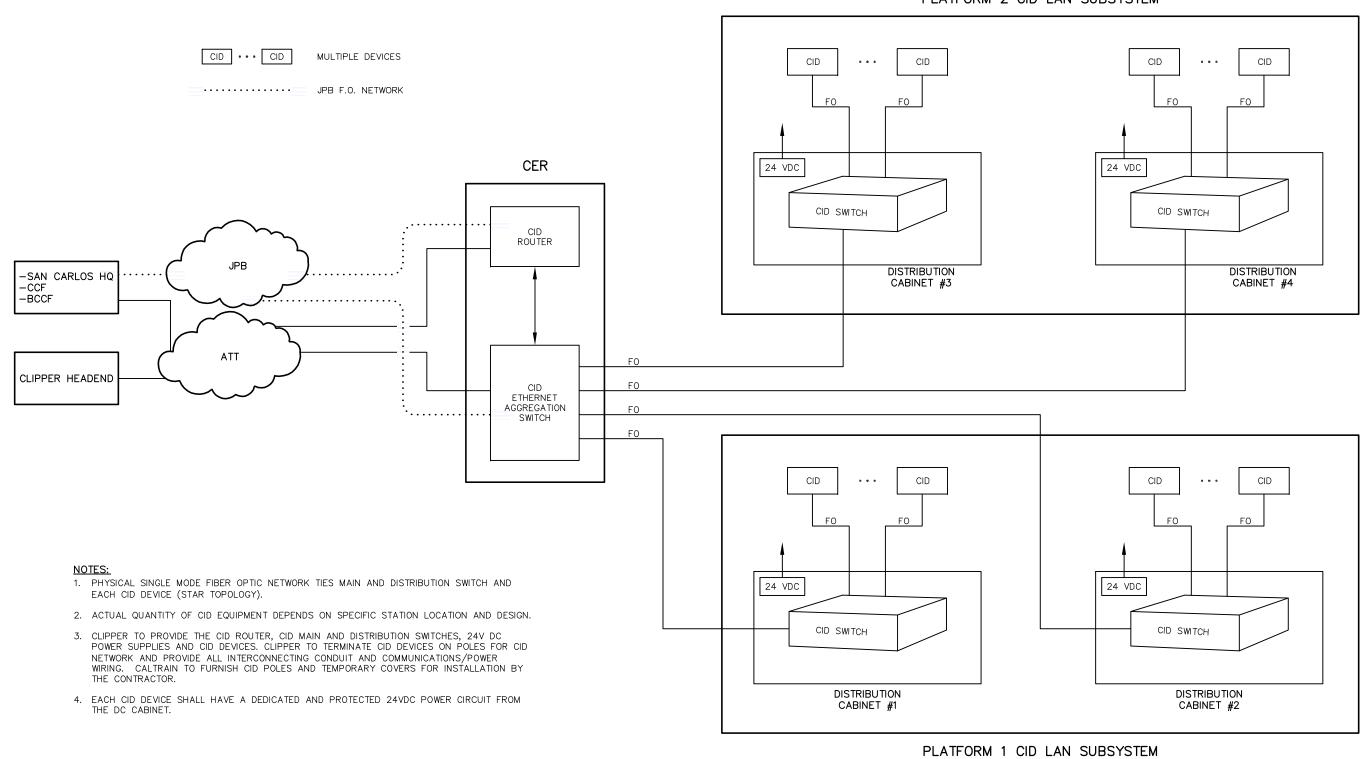
PLATFORM 1 CID LAN SUBSYSTEM



- 1. PHYSICAL SINGLE MODE FIBER OPTIC NETWORK TIES MAIN AND DISTRIBUTION SWITCH AND EACH CID DEVICE (STAR TOPOLOGY).
- 2. ACTUAL QUANTITY OF CID EQUIPMENT DEPENDS ON SPECIFIC STATION LOCATION AND DESIGN.
- 3. CLIPPER TO PROVIDE THE CID ROUTER, CID MAIN AND DISTRIBUTION SWITCHES, 24V DC POWER SUPPLIES AND CID DEVICES. CLIPPER TO TERMINATE CID DEVICES ON POLES FOR CID NETWORK AND PROVIDE ALL INTERCONNECTING CONDUIT AND COMMUNICATIONS/POWER WIRING. CALTRAIN TO FURNISH CID POLES AND TEMPORARY COVERS FOR INSTALLATION BY THE CONTRACTOR.
- 4. EACH CID DEVICE SHALL HAVE A DEDICATED AND PROTECTED 24VDC POWER CIRCUIT FROM THE DC CABINET.

	PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	cadd file name: SD-4106
No. No.	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Caltrail® 1250 Son Corlos Avenue Son Corlos, CA 94070	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS 1-PLATFORM CID LAN SUBSYSTEM LOGICAL TOPOLOGY	REV: EDITION: FOURTH STATION COMMUNICATION STANDARD DRAWING NO.: SD-4106

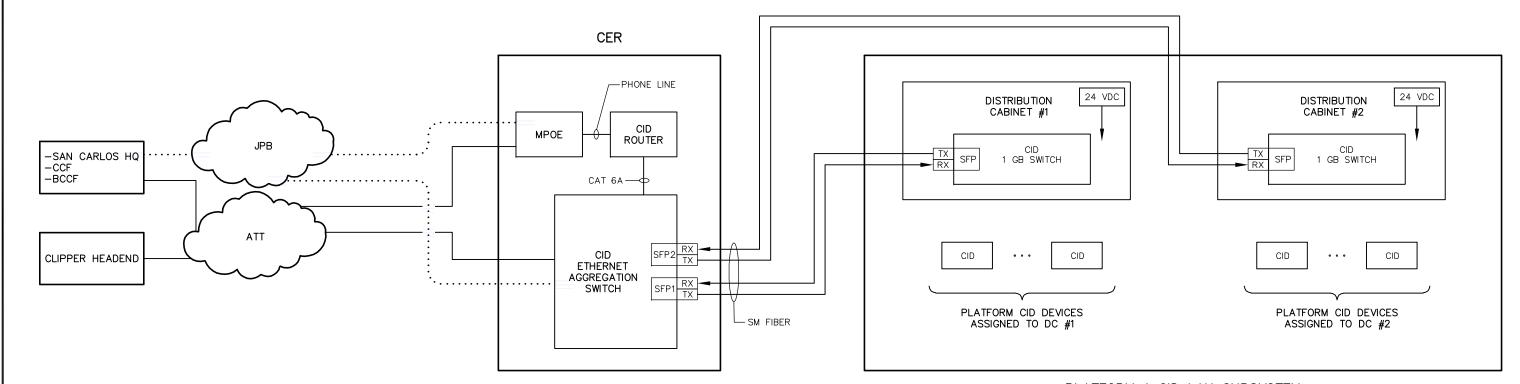
PLATFORM 2 CID LAN SUBSYSTEM



								PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	cadd file name: SD-4107
								APPROVED BY:	Caltrain.	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS	REV: EDITION: FOURTH
			01012024 FOURTH EDITION					Din Zhang		2-PLATFORM CID LAN SUBSYSTEM LOGICAL TOPOLOGY	STATION COMMUNICATIONS STANDARD DRAWING NO.:
REV	DATE	BY CHK	APP DESCRIPTION	REV	DATE	BY CHK	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	LOGICAL TOPOLOGI	SD-4107

CID ••• CID MULTIPLE DEVICES

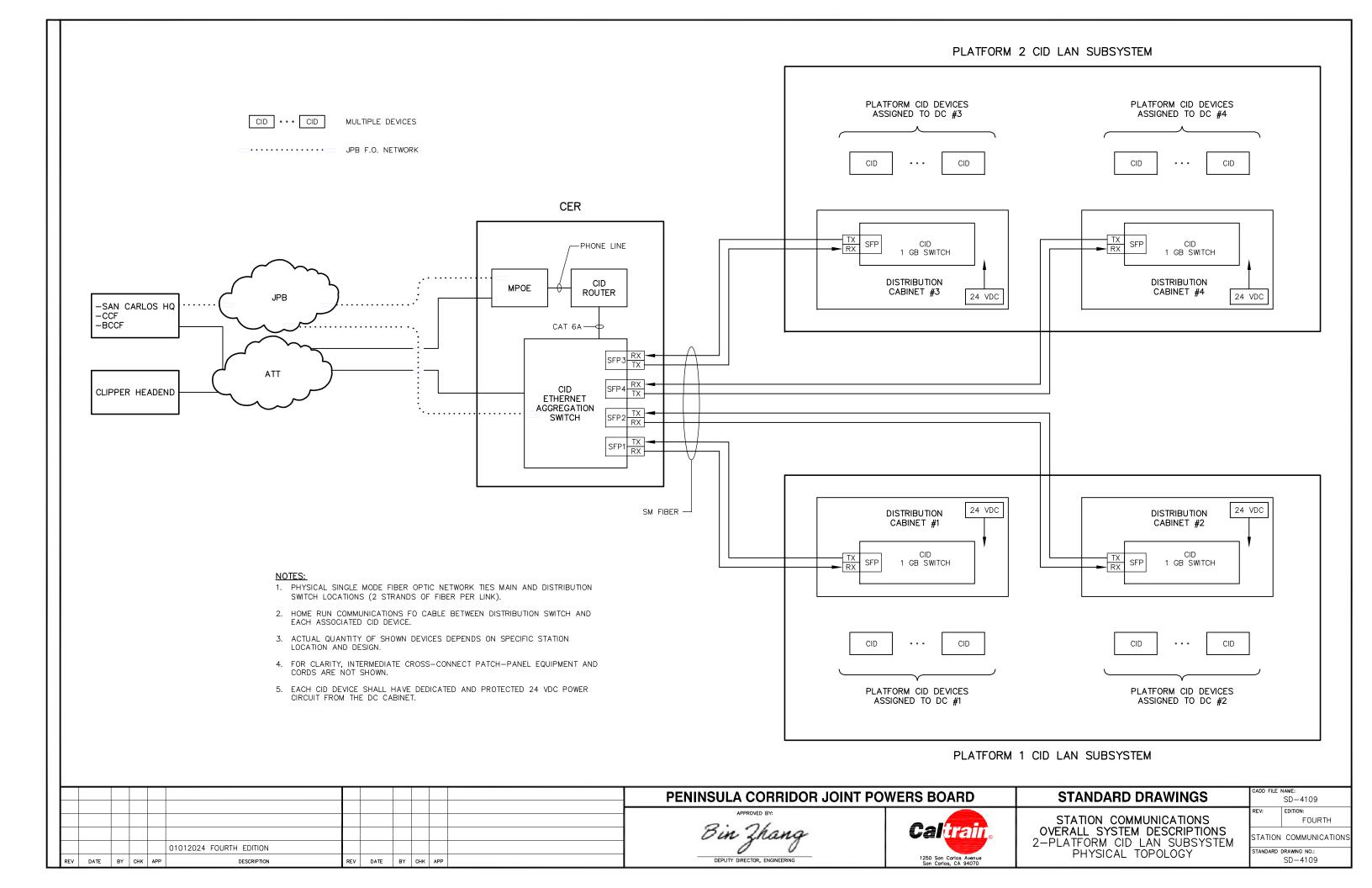
JPB F.O. NETWORK

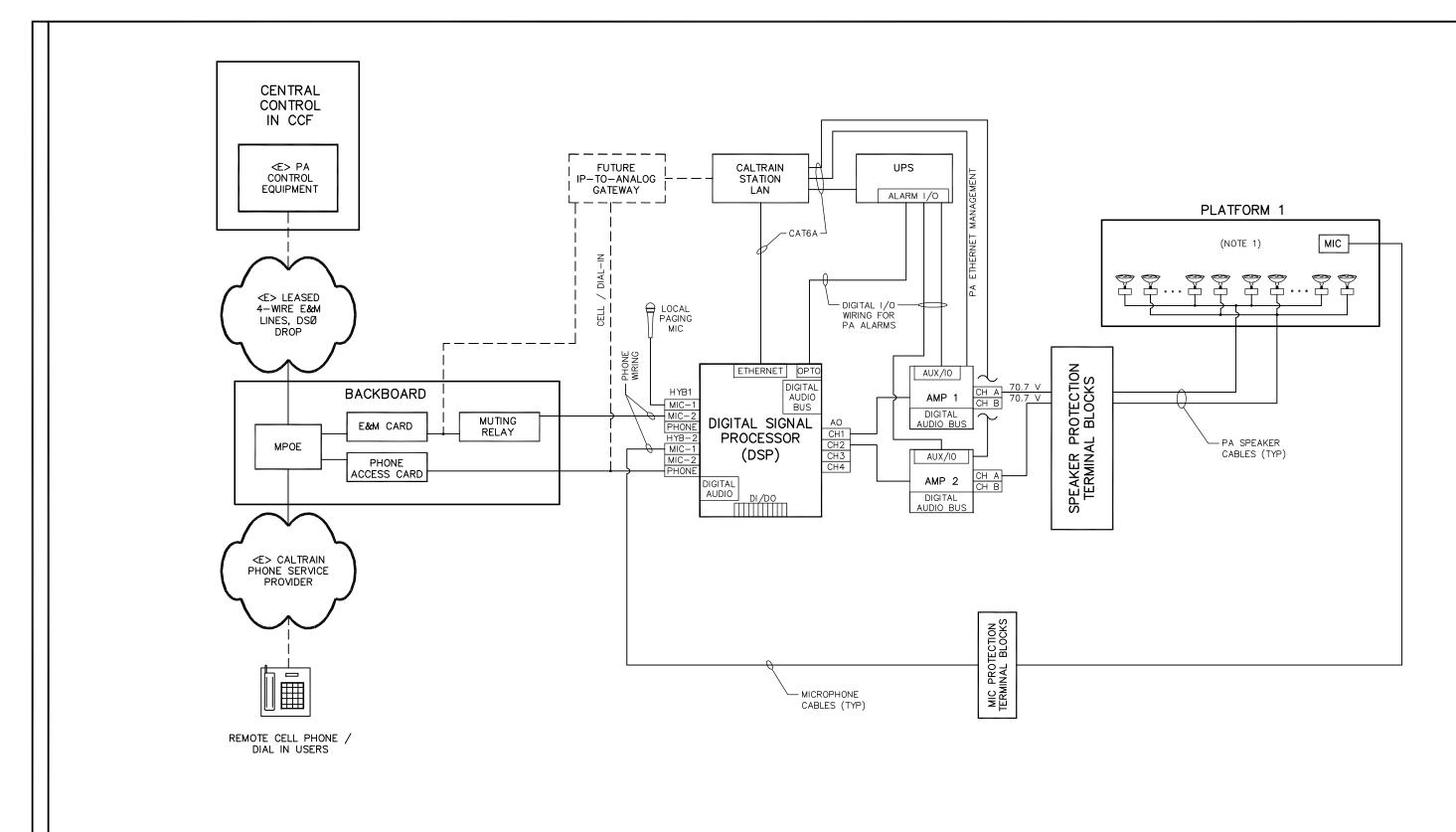


PLATFORM 1 CID LAN SUBSYSTEM

- PHYSICAL SINGLE MODE FIBER OPTIC NETWORK TIES MAIN AND DISTRIBUTION SWITCH LOCATIONS (2 STRANDS OF FIBER PER LINK).
- 2. HOME RUN COMMUNICATIONS FO CABLE BETWEEN DISTRIBUTION SWITCH AND EACH ASSOCIATED CID DEVICE.
- ACTUAL QUANTITY OF SHOWN DEVICES DEPENDS ON SPECIFIC STATION LOCATION AND DESIGN.
- 4. FOR CLARITY, INTERMEDIATE CROSS-CONNECT PATCH-PANEL EQUIPMENT AND CORDS ARE NOT SHOWN.
- 5. EACH CID DEVICE SHALL HAVE DEDICATED AND PROTECTED 24 VDC POWER CIRCUIT FROM THE DC CABINET.

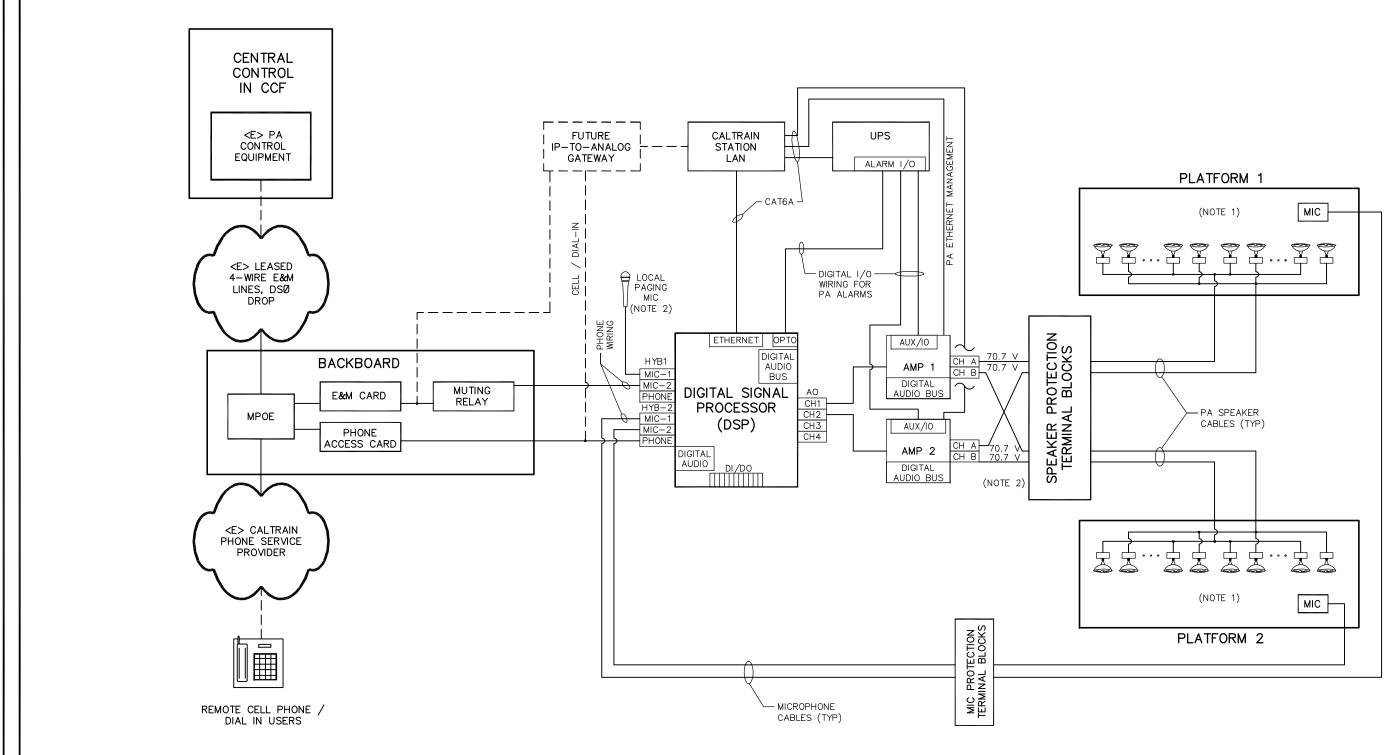
							PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4108
REV DATE	BY CHK	01012024 FOURTH EDITION APP DESCRIPTION	REV D	ATE E	3Y CHK	APP	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Calcrain 1250 San Carlos Avenue San Carlos, CA 94070	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS 1-PLATFORM CID LAN SUBSYSTEM PHYSICAL TOPOLOGY	REV: EDITION: FOURTH STATION COMMUNICATION: STANDARD DRAWING NO.: SD—4108





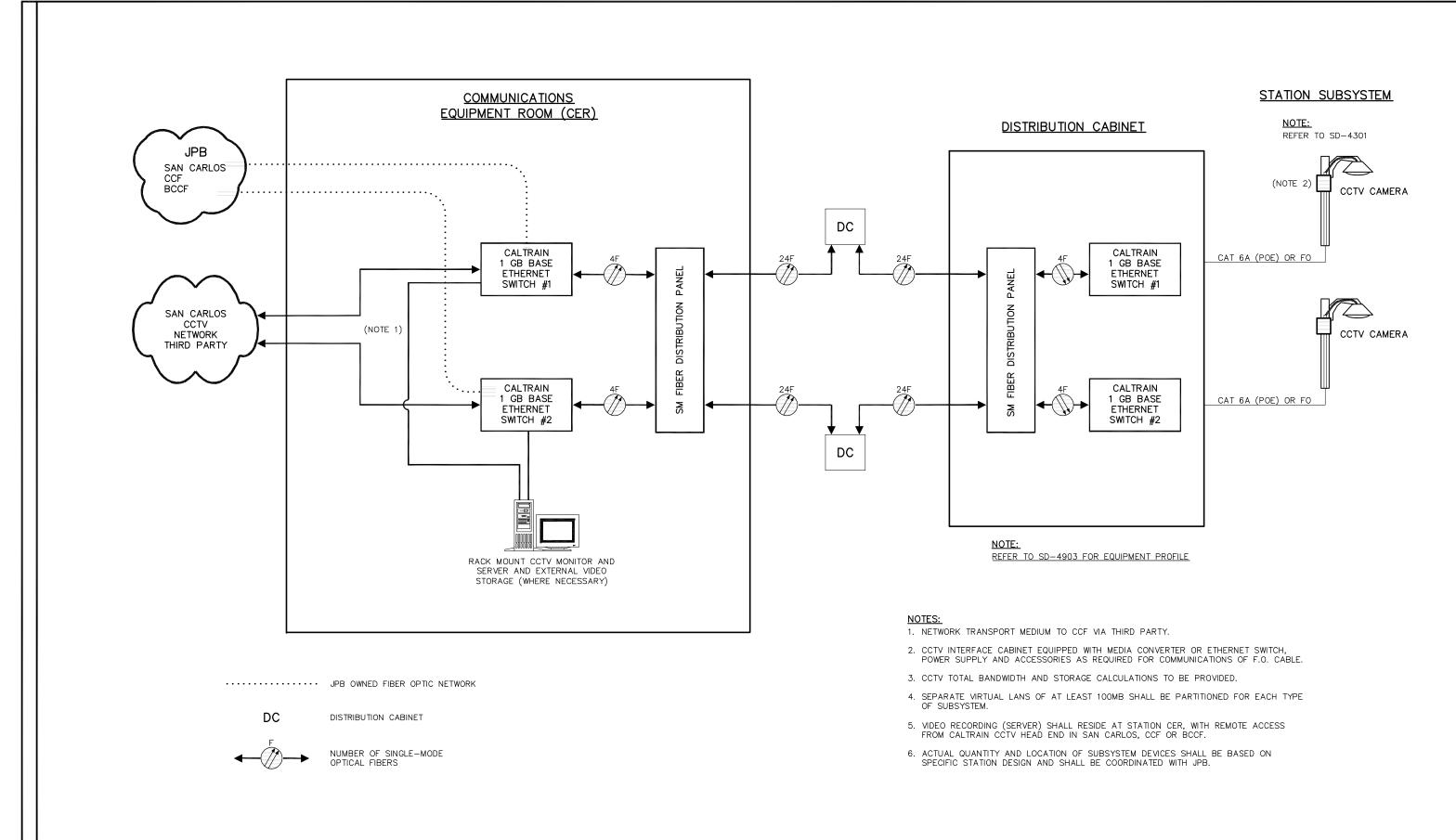
PLATFORM SPEAKERS SHALL BE WIRED IN A MANNER SUCH THAT NO TWO ADJACENT SPEAKERS ARE ASSIGNED THE SAME AMPLIFIER.

			PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4110
REV DATE BY CHK APP DESCRIPTION	REV DATE BY	CHK APP	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Calitrain 1250 San Carlos Avenue San Carlos, CA 94070	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS 1-PLATFORM PA SYSTEM PHYSICAL TOPOLOGY	REV: EDITION: FOURTH STATION COMMUNICATIONS STANDARD DRAWING NO.: SD—4110



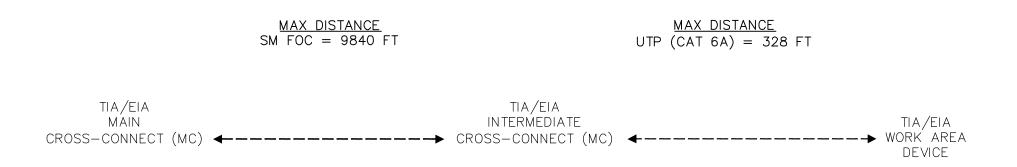
- PLATFORM SPEAKERS SHALL BE WIRED IN A MANNER SUCH THAT NO TWO ADJACENT SPEAKERS ARE ASSIGNED THE SAME AMPLIFIER.
- 2. PLATFORM 1 AND PLATFORM 2 SPEAKERS SHALL BE TERMINATED ON TWO SEPARATE OUTPUTS.

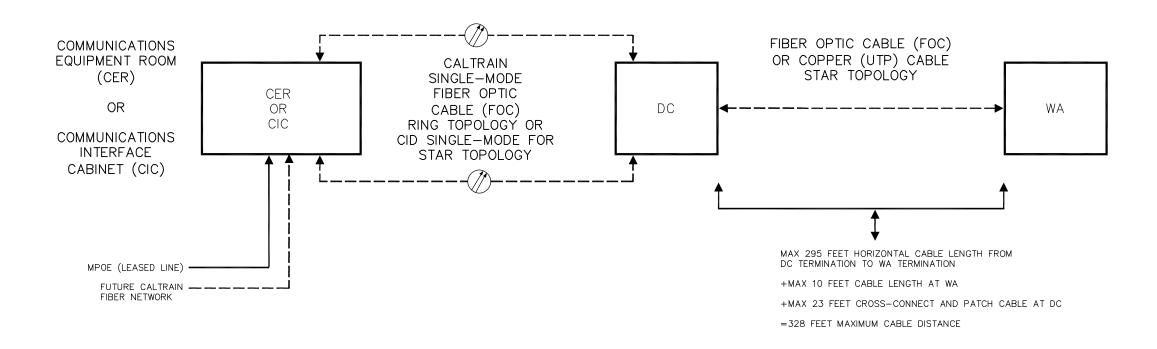
								PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4111
								Bin Zhang	Caltrain.	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS	REV: EDITION: FOURTH STATION COMMUNICATIONS
REV	DATE	BY CHK	01012024 FOURTH EDITION APP DESCRIPTION	REV	DATE	BY CHK	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	2-PLATFORM PA SYSTEM PHYSICAL TOPOLOGY	STANDARD DRAWING NO.: SD-4111



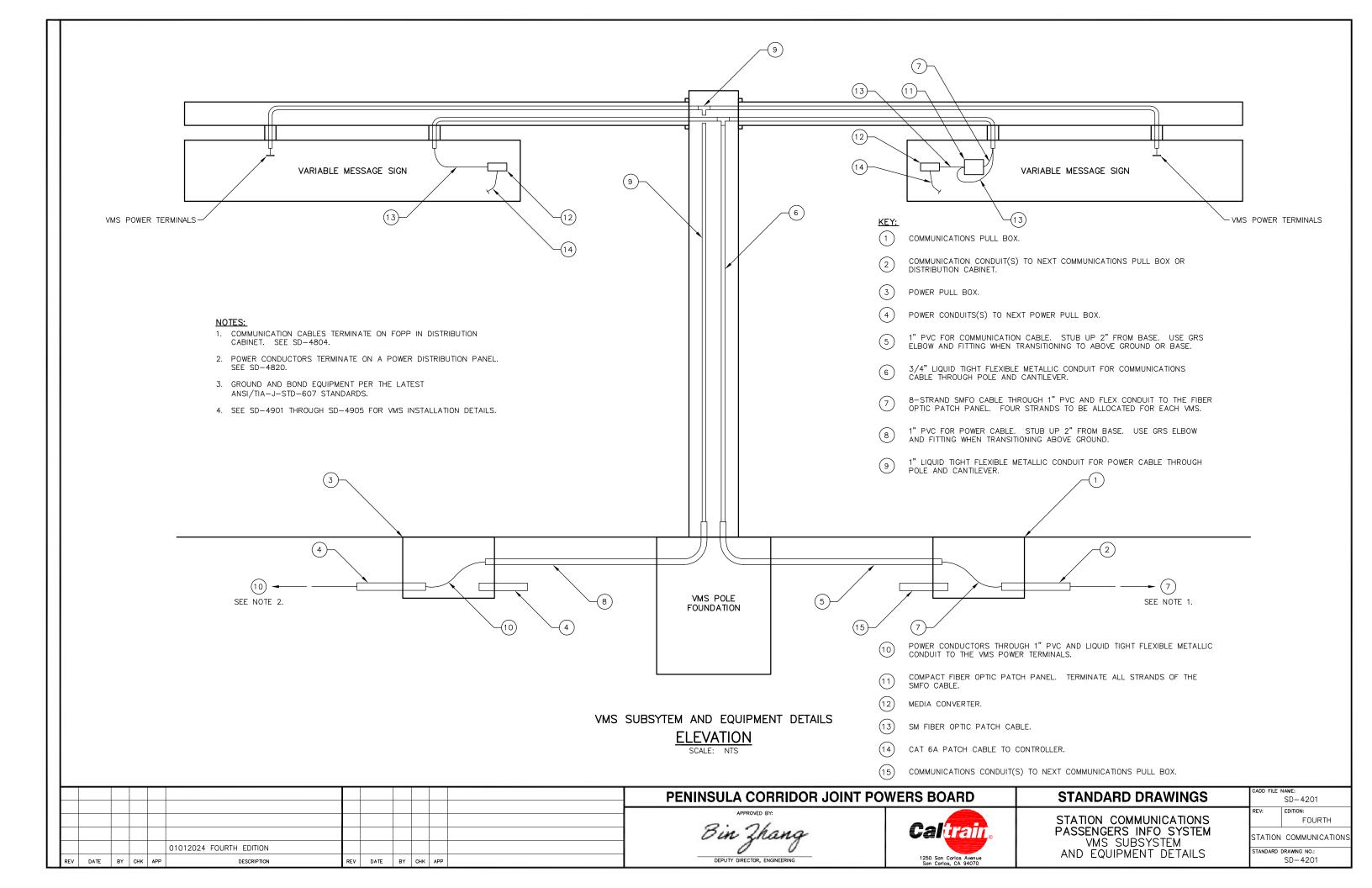
								PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4112
								Bin Zhang	Caltrain.	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS	REV: EDITION: FOURTH STATION COMMUNICATION:
REV	DATE	BY CHK	01012024 FOURTH EDITION APP DESCRIPTION	R	EV DATE	BY CH	(APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	CCTV SYSTEM PHYSICAL DISTRIBUTION TOPOLOGY	STATION COMMONICATION STANDARD DRAWING NO.: SD-4112

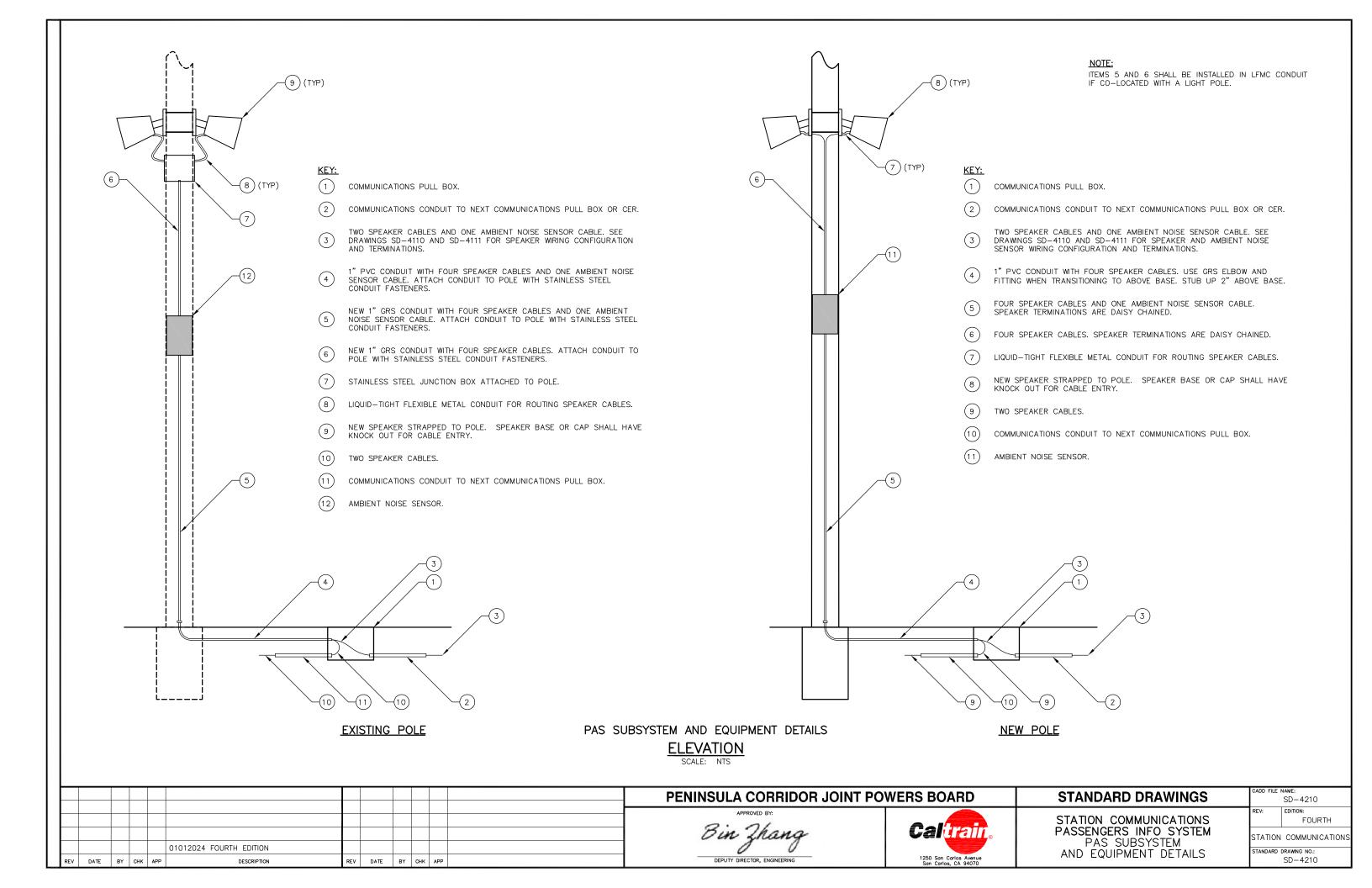
- REFERENCE ANSI/TIA/EIA 568, COMMERCIAL BUILDING TELE—
 COMMUNICATIONS CABLING STANDARD.
- 2. WA (WORK AREA) CAN BE ANY NETWORK DEVICE SUCH AS: VMS, TVM, CCTV, CID OR DATA OUTLET.
- 3. EACH UTP CABLE SHALL BE PROTECTED AT THE ENTRANCE OF THE DC OR CER BY USE OF APPROPRIATE SURGE / LIGHTNING PROTECTOR.

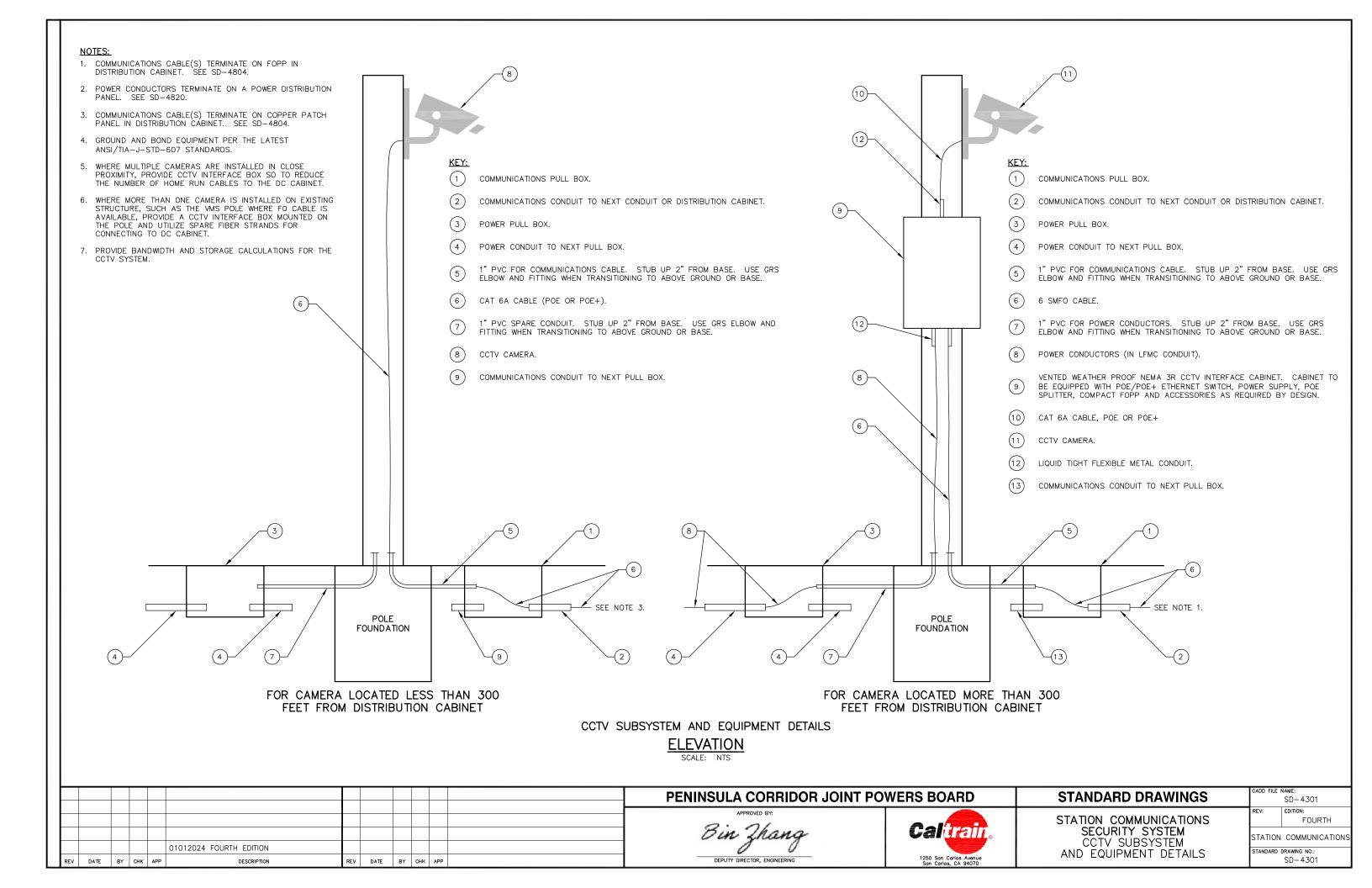


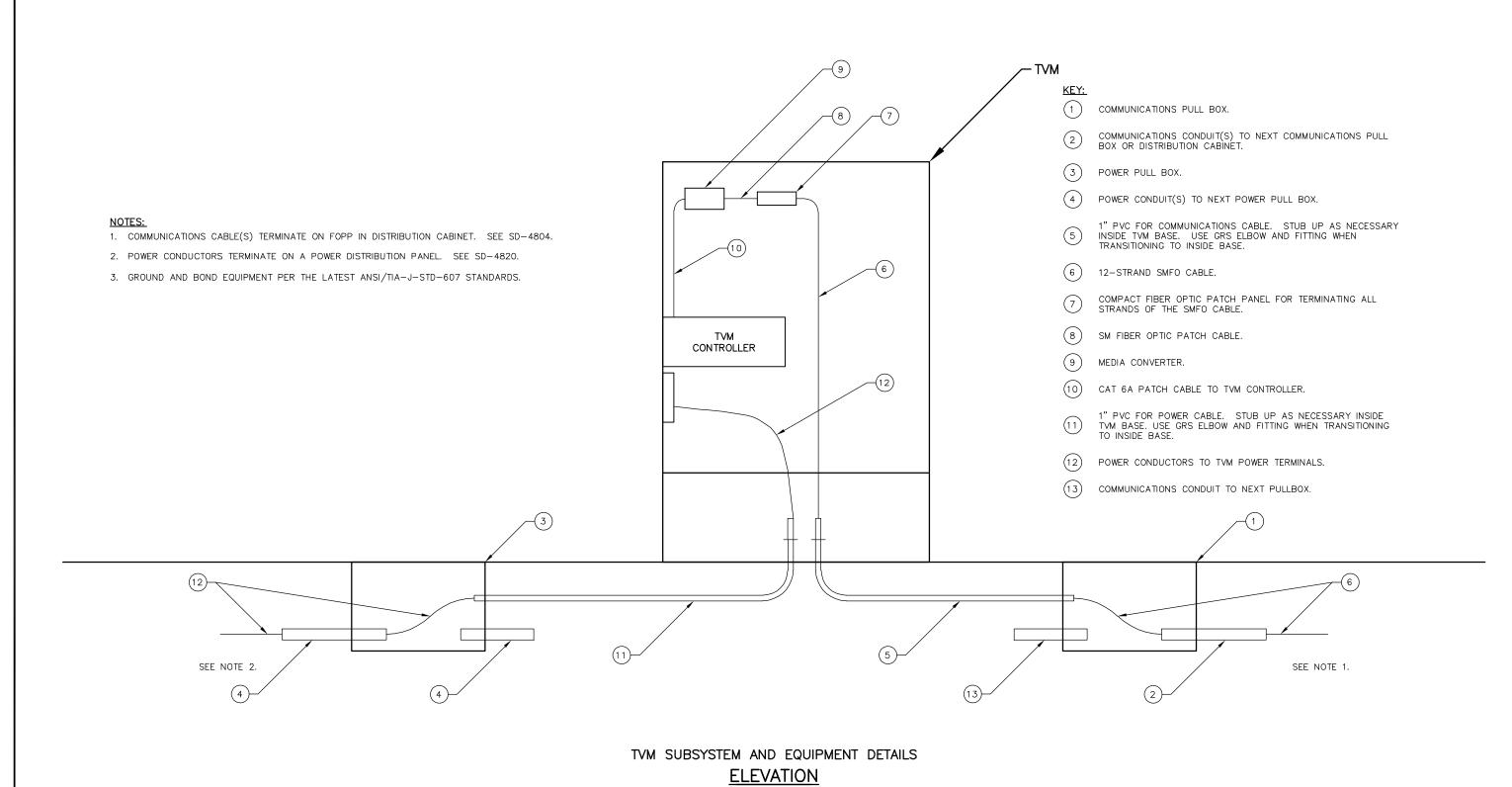


				PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	cadd file name: SD-4113
REV DATE BY CHK APP	01012024 FOURTH EDITION DESCRIPTION	REV DATE BY C	IK APP	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Caltrain 1250 San Carlos Avenue San Carlos, CA 94070	STATION COMMUNICATIONS OVERALL SYSTEM DESCRIPTIONS NETWORK CABLE DISTRIBUTION TIA/EIA STANDARDS	REV: EDITION: FOURTH STATION COMMUNICATIONS STANDARD DRAWING NO.: SD — 4113



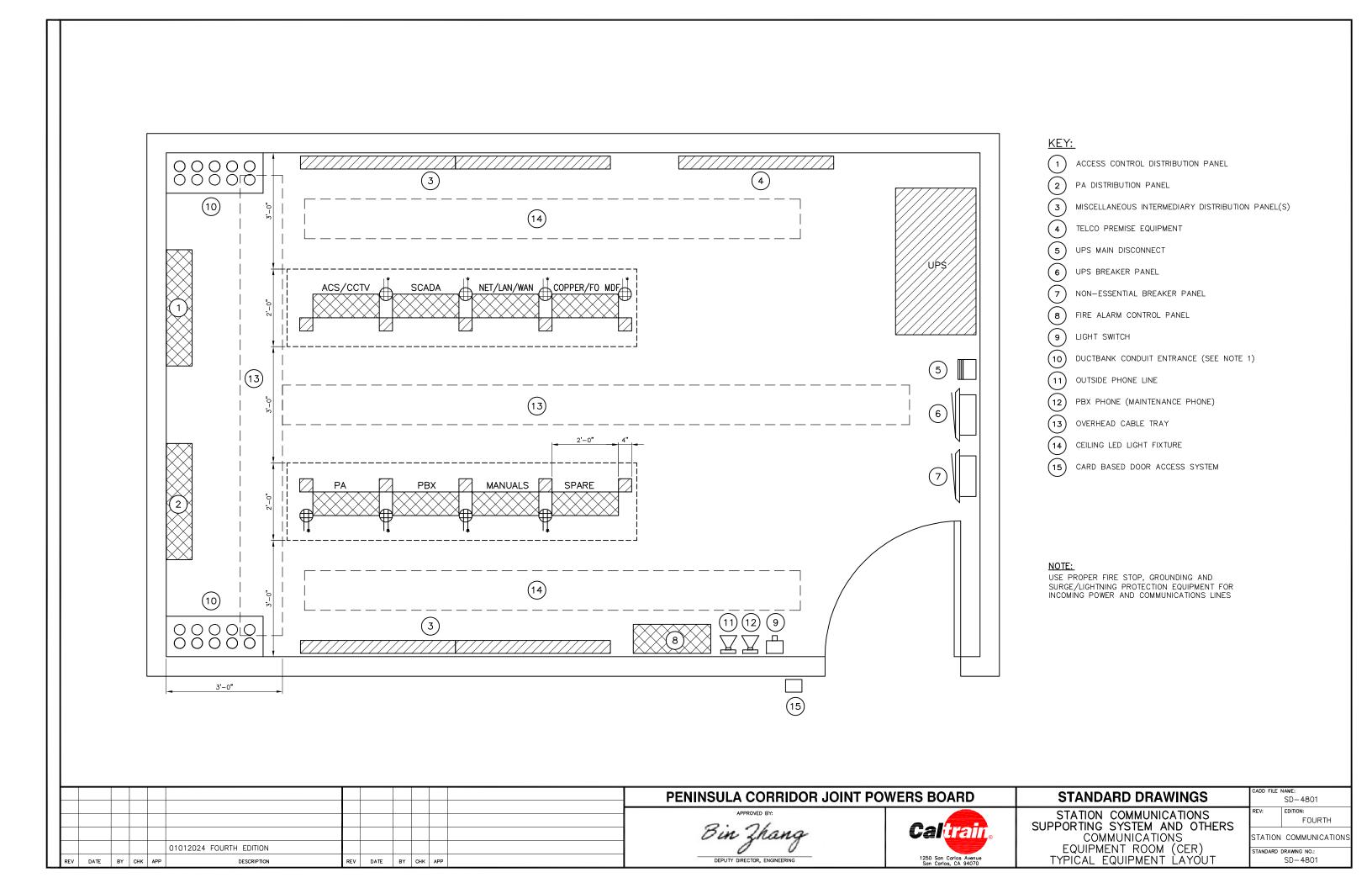






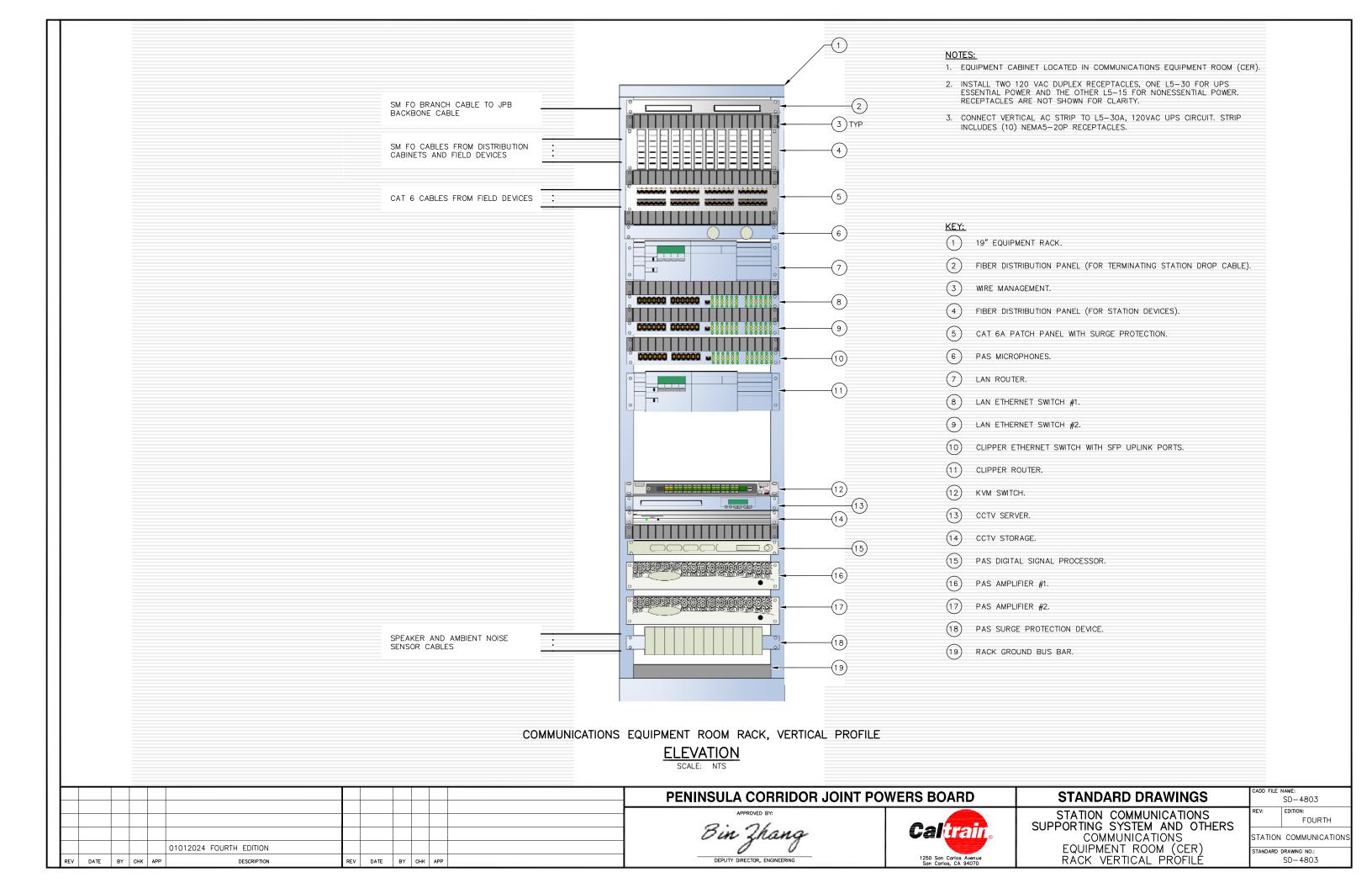
SCALE: NTS

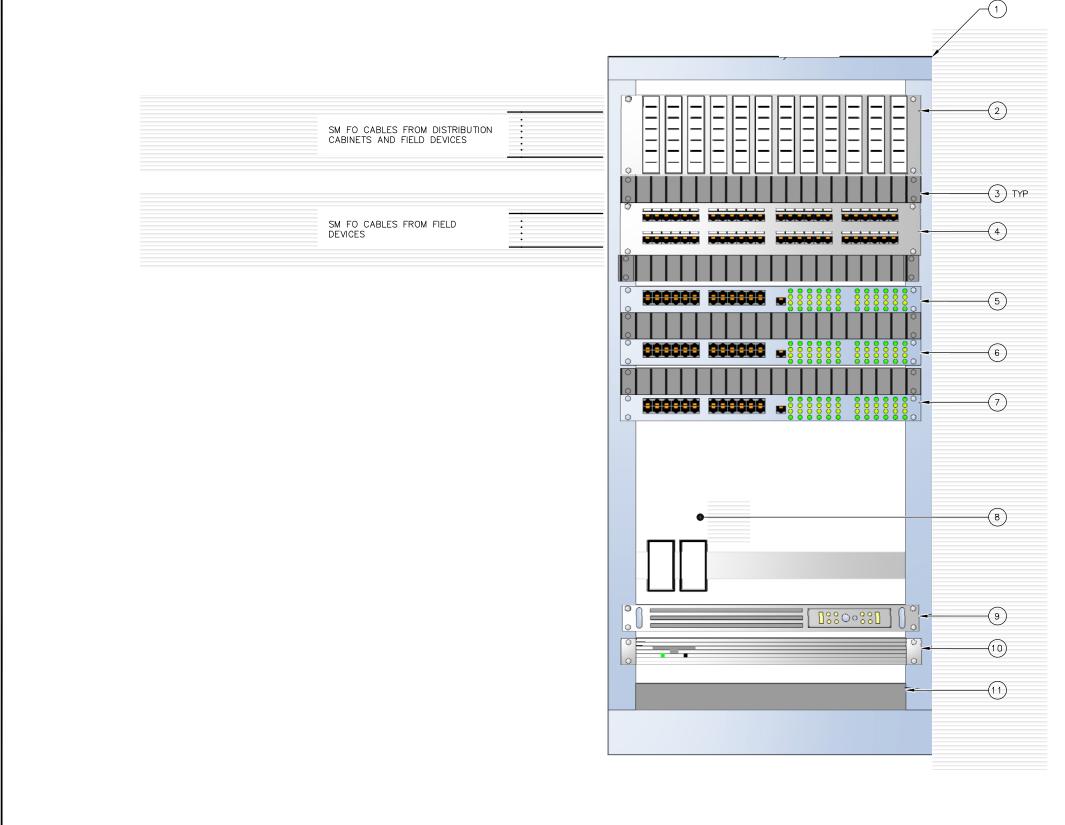
	PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4401
	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Calurain 1250 San Carlos Avenue San Carlos, CA 94070	STATION COMMUNICATIONS FARE COLLECTION SYSTEM TVM SUBSYSTEM AND EQUIPMENT DETAILS	REV: EDITION: FOURTH STATION COMMUNICATION STANDARD DRAWING NO.: SD-4401



NOT USED

					-	-			PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4802
									APPROVED BY:		STATION COMMUNICATIONS	REV: EDITION: FOURTH
									Bin Zhang	Caltrain 。	SUPPORTING SYSTEM AND OTHERS	STATION COMMUNICATIONS
11				01012024 FOURTH EDITION					0			STANDARD DRAWING NO.:
Ш	REV D	ATE	BY CHK	APP DESCRIPTION	REV	DATE	BY CH	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070		SD-4802





- 1. OUTDOOR DISTRIBUTION CABINET SHALL HAVE SIDE MOUNTED AC UNIT. REFER TO DIVISION 17 SPECIFICATIONS FOR STANDARDS.
- INSTALL TWO 120 VAC DUPLEX RECEPTACLES. ONE L5-30 FOR UPS ESSENTIAL POWER AND THE OTHER L5-15 FOR NONESSENTIAL POWER. RECEPTACLES ARE NOT SHOWN FOR CLARITY.
- 3. CONNECT VERTICAL AC STRIP TO L5-30A, 120VAC OPS CIRCUIT. STRIP INCLUDES (10) NEMA5-20P RECEPTACLES.

KEY:

- 1) 19" EQUIPMENT RACK.
- 2) FIBER DISTRIBUTION PANEL.
- 3) WIRE MANAGEMENT.
- (4) CAT 6A SURGE PROTECTION DEVICE.
- (5) LAN ETHERNET SWITCH #1.
- 6 LAN ETHERNET SWITCH #2.
- 7) CLIPPER ETHERNET SWITCH WITH SFP UPLINK PORTS.

SD-4804

STATION COMMUNICATIONS
STANDARD DRAWING NO.:

SD-4804

FOURTH

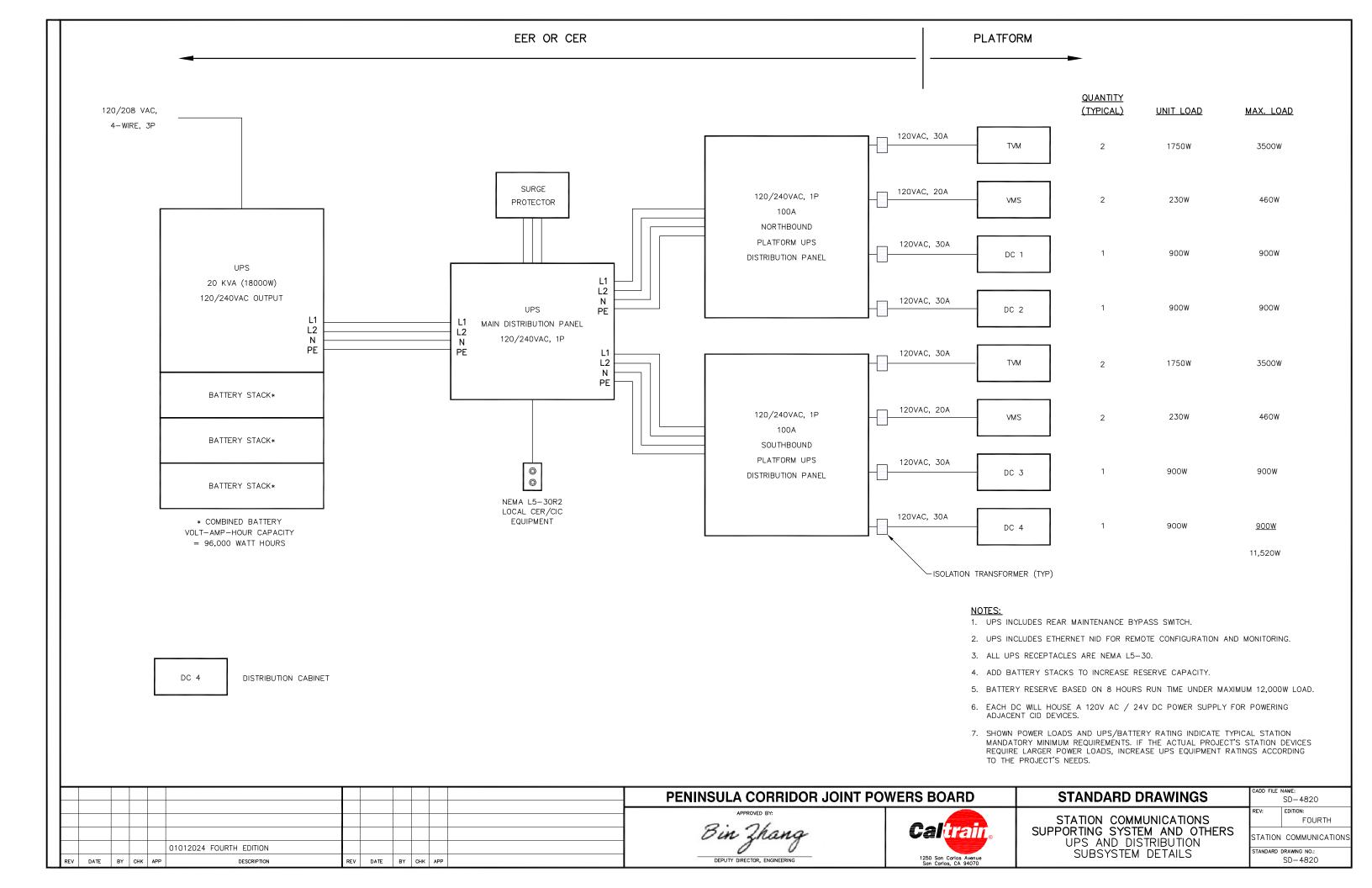
- 8) CLIPPER POWER SUPPLY AND FUSES.
- 9 UPS.
- (10) UPS BATTERIES.
- 11) RACK GROUND BUS BAR.

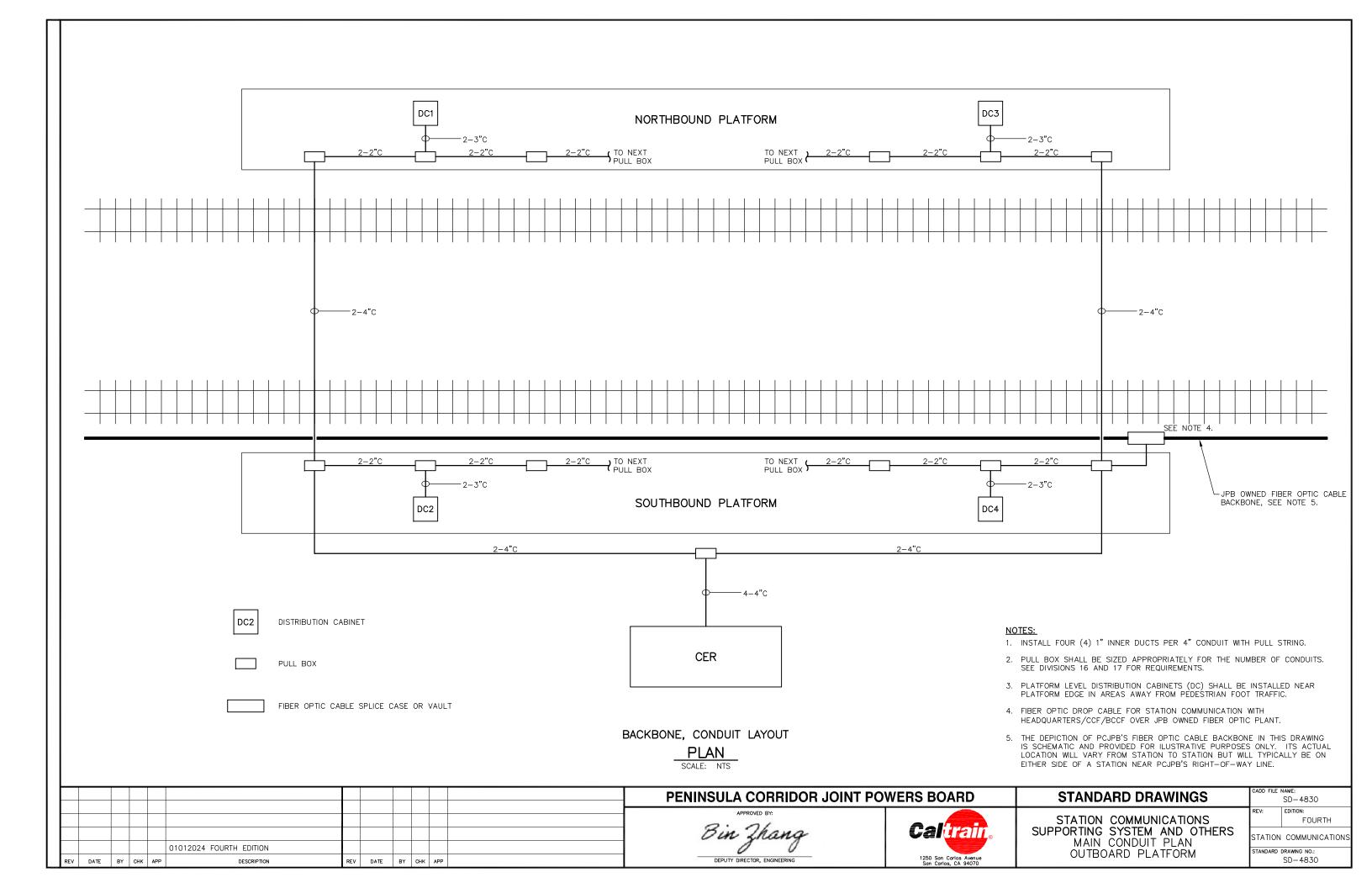
DISTRIBUTION CABINET, VERTICAL PROFILE

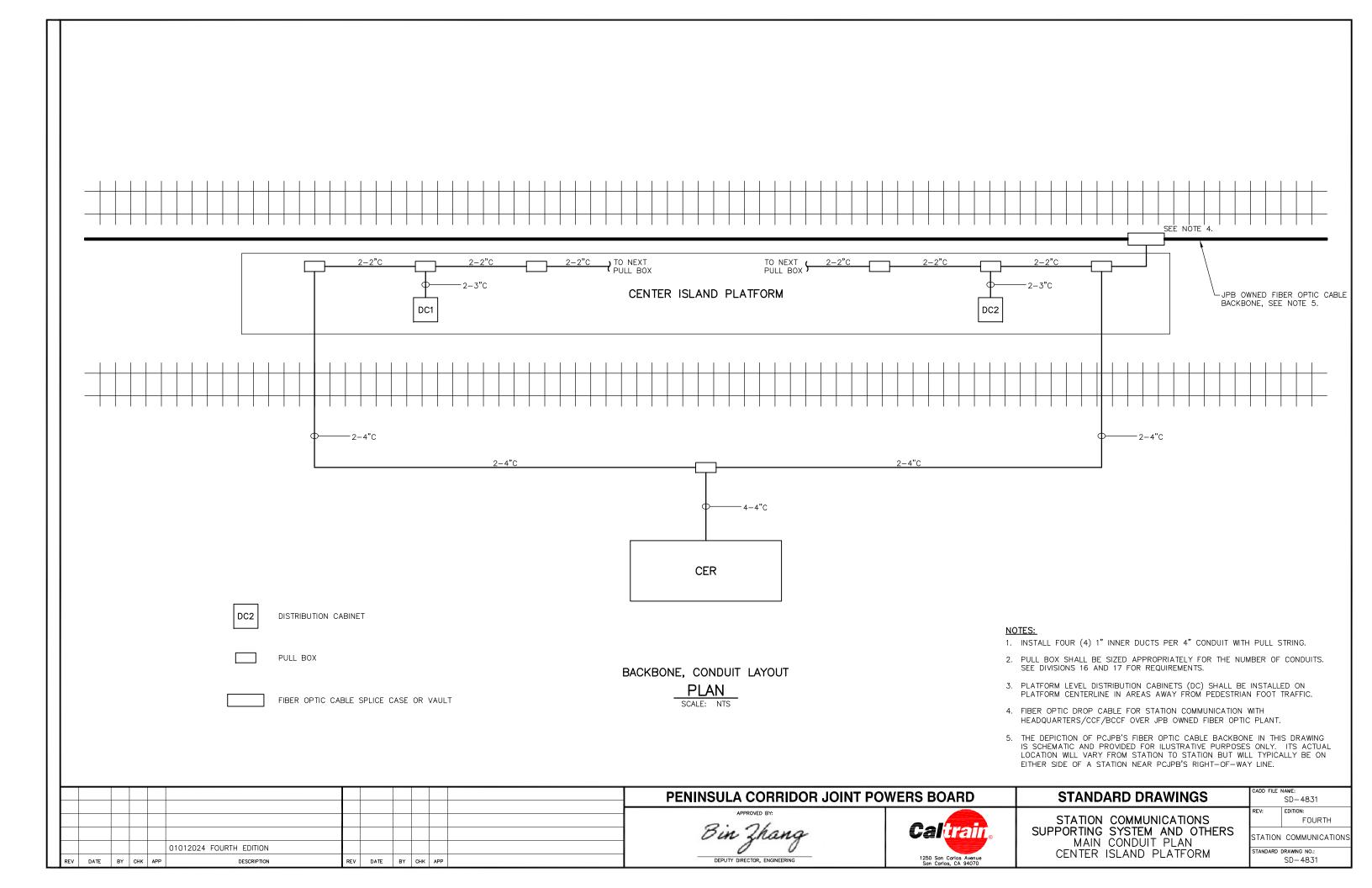
<u>ELEVATION</u>

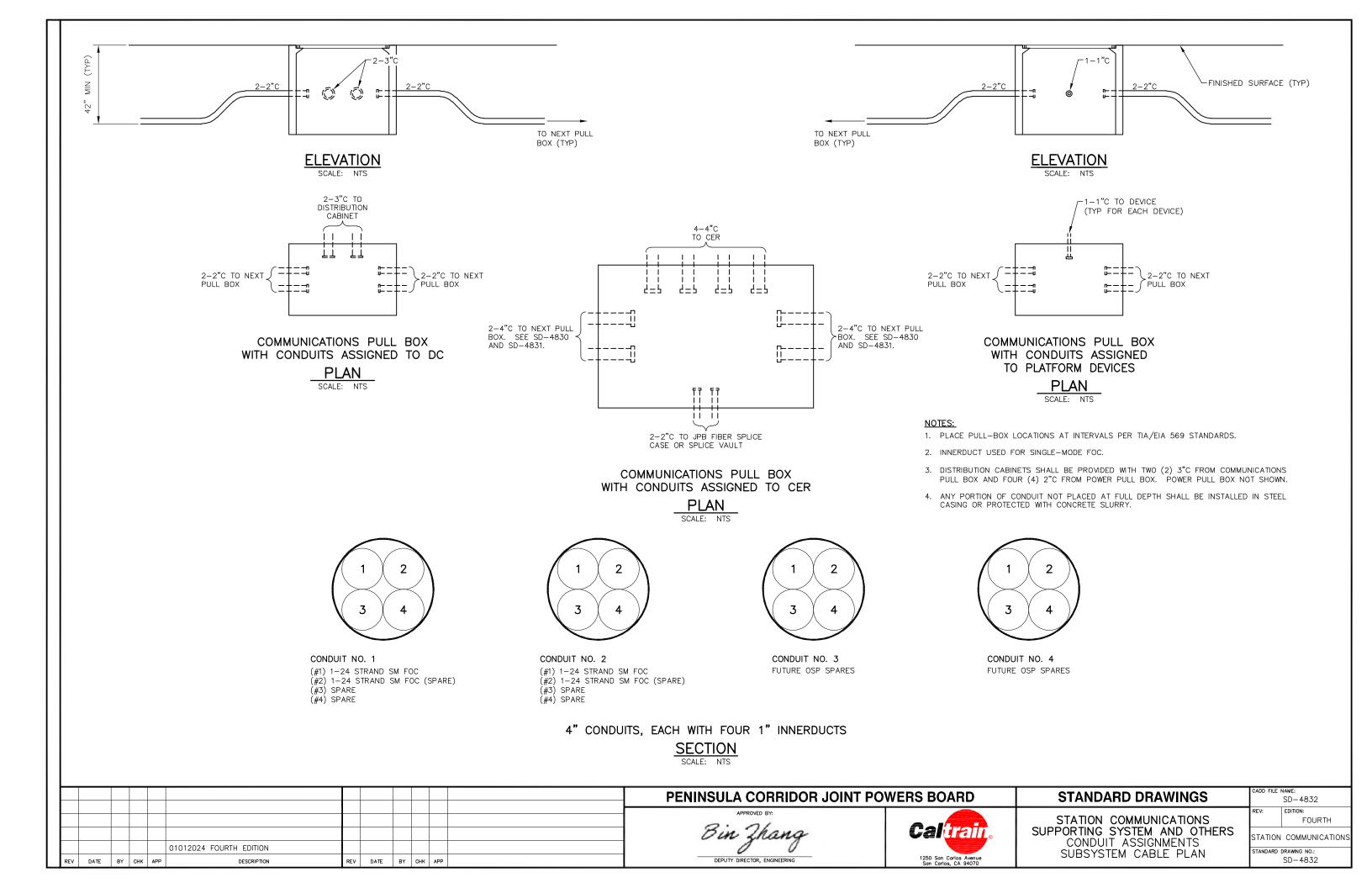
SCALE: NTS

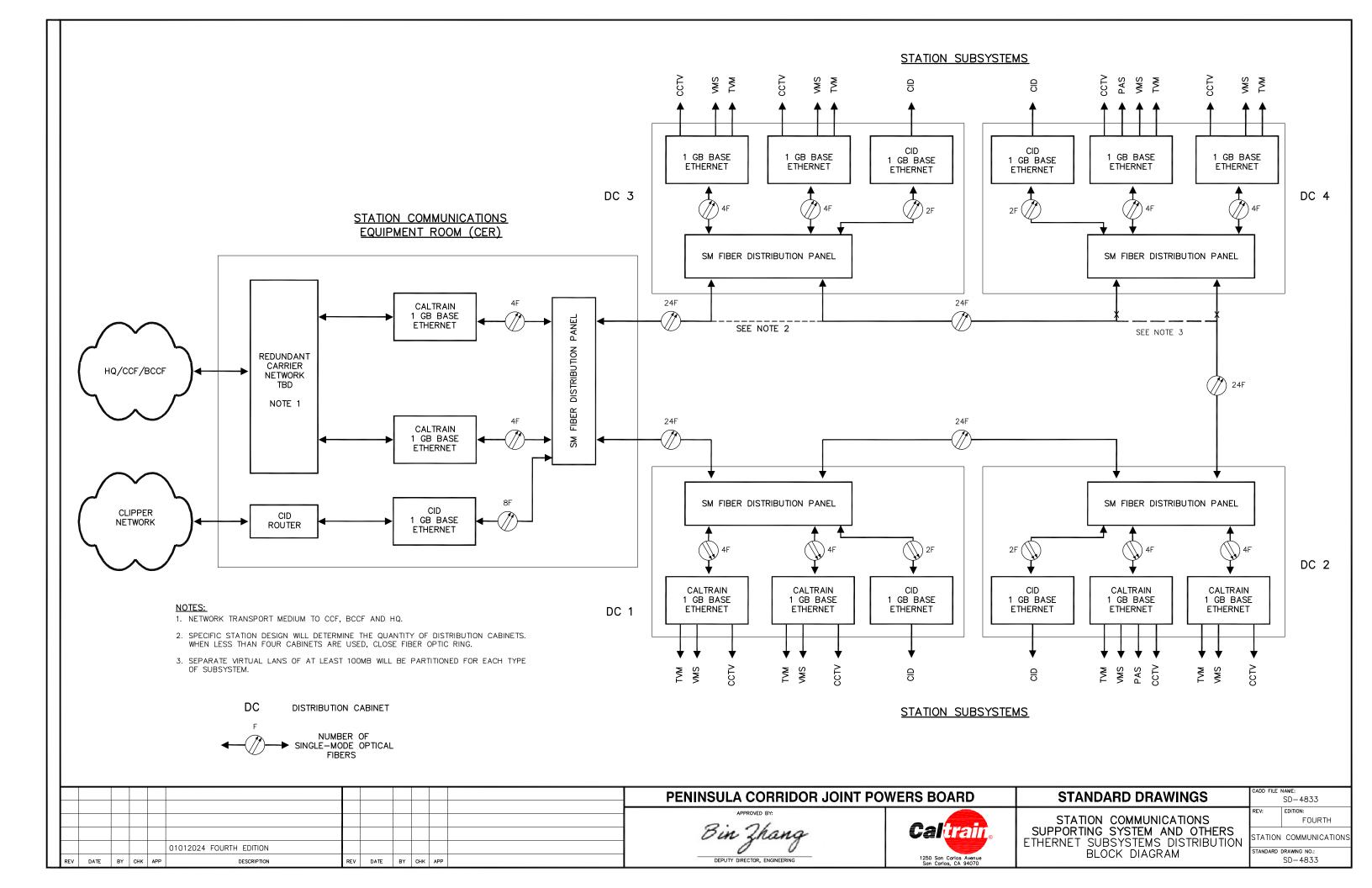
											PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS
REV	DATE	BY	CHK APP	01012024 FOURTH EDITION DESCRIPTION	REV	DATE	В	у снк	(APP	ip.	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Caltrain 1250 Son Carlos Avenue Son Carlos, CA 94070	STATION COMMUNICATIONS SUPPORTING SYSTEM AND OTHERS DISTRIBUTION CABINET VERTICAL PROFILE

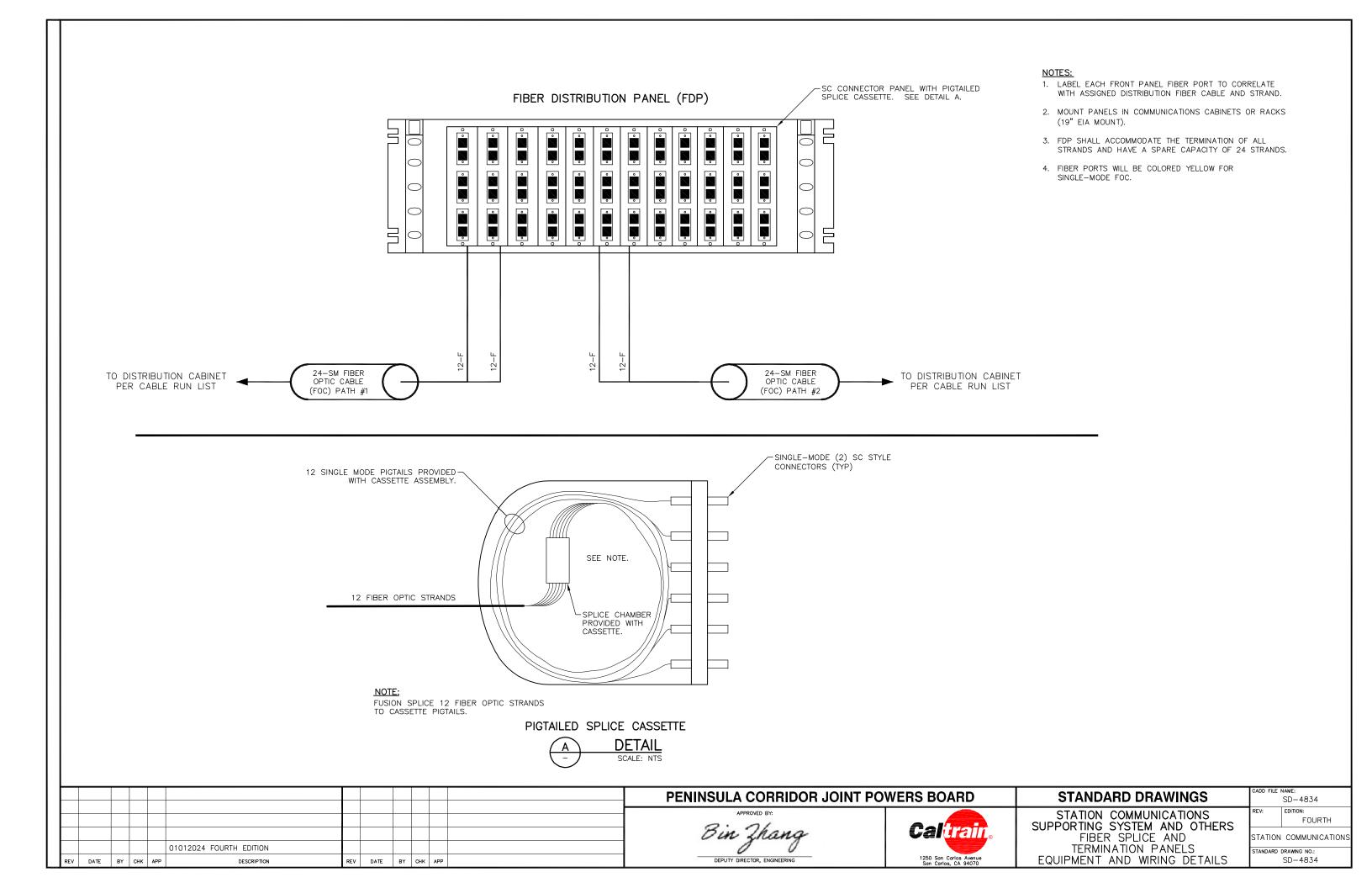


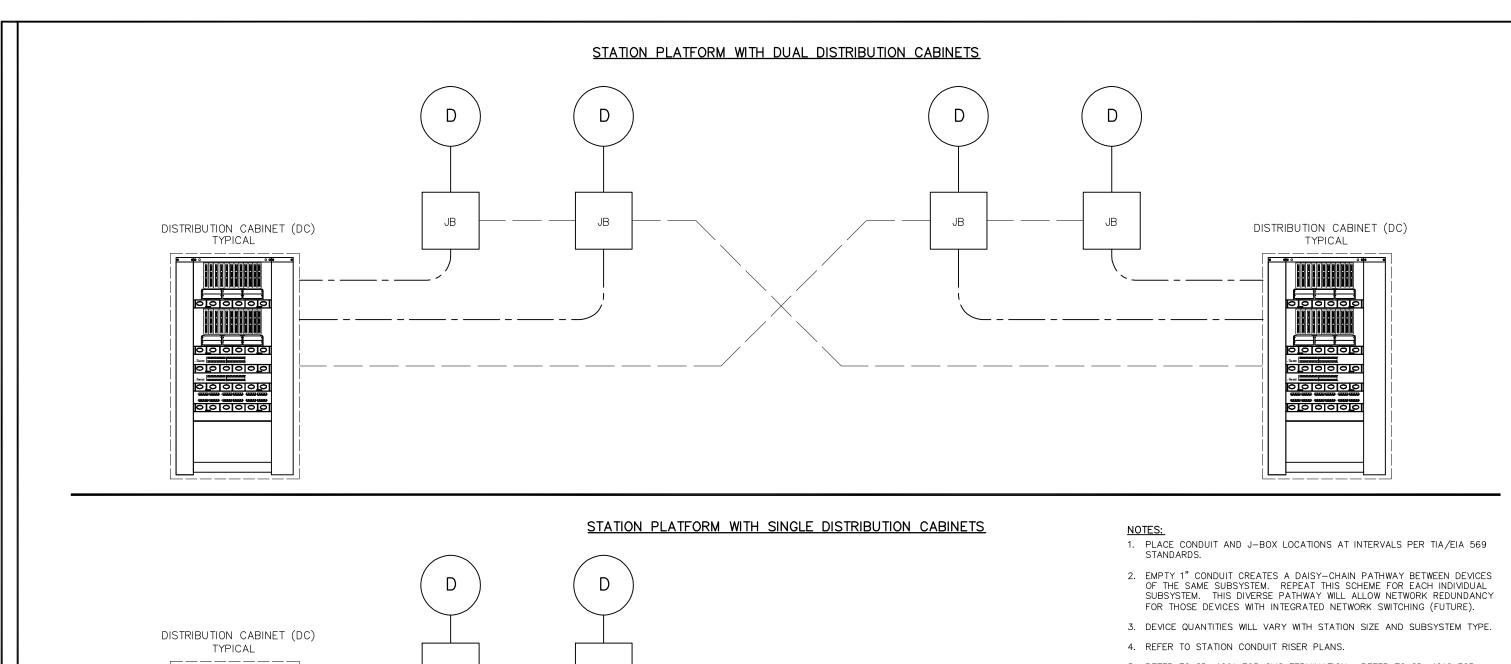












JB

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JB

5. REFER TO SD-4201 FOR CMS TERMINATION. REFER TO SD-4210 FOR SPEAKERS TERMINATION. REFER TO SD-4301 FOR CCTV TERMINATION. REFER TO SD-4401 FOR TVM TERMINATION. REFER TO SD-4109 FOR CID.

____ 1" GRS CONDUIT, FUTURE NETWORK DIVERSITY

_____ 1" GRS CONDUIT, WITH CABLE, HOME RUN FROM DC PER DEVICE

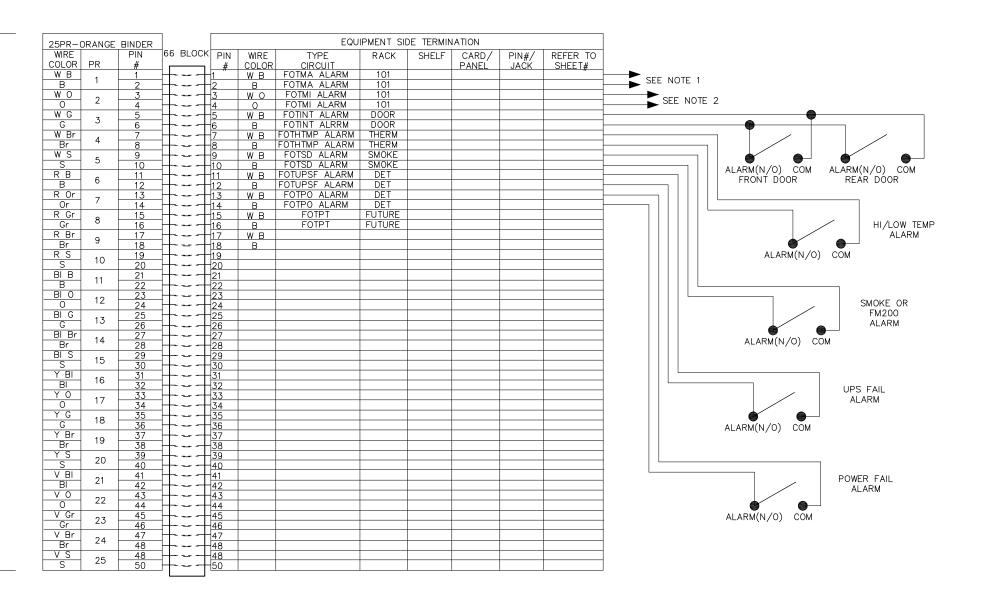
D SUBSYS

SUBSYSTEM DEVICE WITH JUNCTION BOX (TVM, VMS, CCTV)

							PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4835
							APPROVED BY:		STATION COMMUNICATIONS	REV: EDITION: FOURTH
		2424224 524774 524724					Bin Zhang	Caltrain	SUPPORTING SYSTEM AND OTHERS SUBSYSTEM DEVICE	STATION COMMUNICATIONS
REV DATE	BY CHK	01012024 FOURTH EDITION APP DESCRIPTION	REV	DATE	BY CHK	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	CONDUIT SCHEME	STANDARD DRAWING NO.: SD-4835

TO NEXT DEVICE

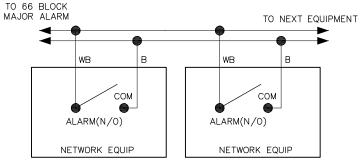
- PROVIDE SOLID STATE SURGE PROTECTOR AT 66-BLOCK WHEN CROSS-CONNECTING ALARMS TO ANOTHER EQUIPMENT OR SIGNAL HOUSE. PROVIDE GROUNDING PER DIVISION 17 SPECIFICATIONS.
- 2. ADDITIONAL ALARM POINTS CAN BE ADDED AS REQUIRED.
- 3. ALARM WIRING SHALL BE 1-PAIR, #22 AWG SOLID CONNECTOR.



NOTE:

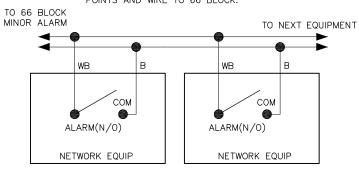
PARALLEL ALL EQUIPMENT MAJOR ALARM
POINTS AND WIRE TO 66 BLOCK.

CK



NOTE:

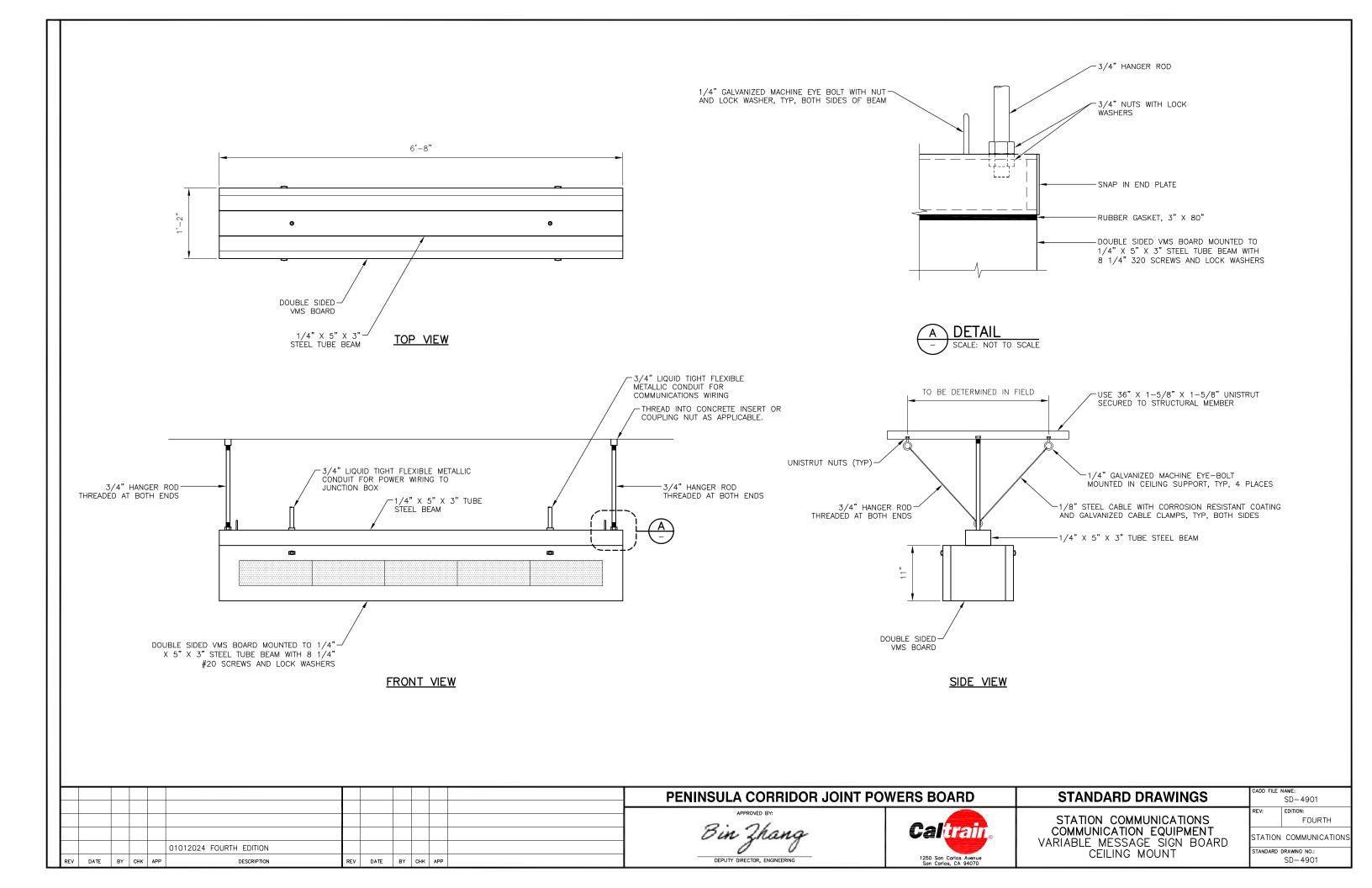
PARALLEL ALL EQUIPMENT MINOR ALARM
POINTS AND WIRE TO 66 BLOCK.



WALL MOUNTED 66-TYPE
BLOCK AT MAIN
DISTRIBUTION FRAME
(MDF)

CROSS-CONNECT TO
ALARM NETWORK ◀
SYSTEM AS REQUIRED

	PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4850
	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Caltrail 1250 San Carlos Avenue San Carlos, CA 94070	STATION COMMUNICATIONS SUPPORTING SYSTEM AND OTHERS EQUIPMENT AND SECURITY ALARMS DEMARCATION	REV: EDITION: FOURTH STATION COMMUNICATIONS STANDARD DRAWING NO.: SD-4850



NOT USED

							PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-4902
							APPROVED BY:		STATION COMMUNICATIONS	REV: EDITION: FOURTH
							Bin Zhang	Caltrain 。	COMMUNICATION EQUIPMENT	STATION COMMUNICATIONS
REV DATI	TE BY	01012024 FOURTH EDITION HK APP DESCRIPTION	REV	DATE	BY CHK	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070		STANDARD DRAWING NO.: SD-4902

