

NOTES

- Equipment shall meet the requirements of and be constructed in accordance with the California Department of Transportation (CalTrans) Transportation Electrical Equipment Specs. (TEES) as currently published, including all errata, with modifications as shown here and described in **Standard Specification section 9-29.13(10)**.
- The Generator Transfer Switch shall be wired into the Service Panel Assembly as shown.
- See **Standard Plan J-80.15** for Detector Test Panel details.
- Output File #1LX shall include a Red Monitor Program Board and OL Monitor Cable terminal. The Red Monitor Program Board shall use the general layout and be labeled as shown here. The field terminal panel shall be modified as shown in **Standard Plan J-80.12**.
- Output File #2LX shall be Model #420 and shall only be provided when specified in the Contract.
- Bus Bars shall be capable of being used without installing lugs on field wires.
- The Detector Termination and Interface Panel shall be located on the Input Panel side of the cabinet and above the controller as shown for accessibility. To accommodate installation, Input Panel #1 may be expanded to 21 inches in width, with clear area maintained as shown, or a separate mounting panel may be installed and bolted to both the cabinet rack and Input Panel #1.
- A 20-wire ribbon cable, 36 inches in length, shall be installed between the Red Interface Connectors on the Red Monitor Program Board and the front of the installed Conflict Monitor. Terminate the cable with compatible 2-row, 20-pin IDC connectors.
- Jumpers may be oriented horizontally or vertically.
- The Red Monitor Program Board shall have the label shown printed on the back of Output File #1LX, directly above the cutout for the board.

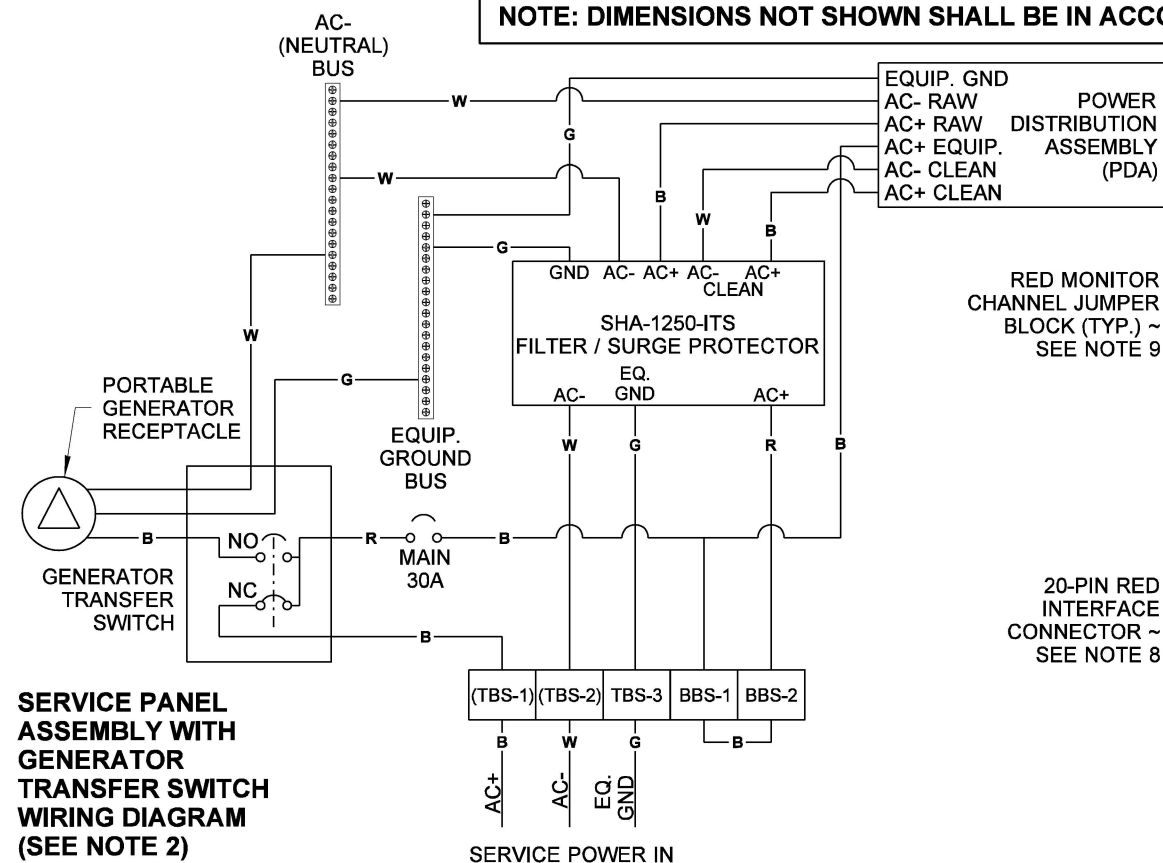
FRONT VIEW

REAR VIEW

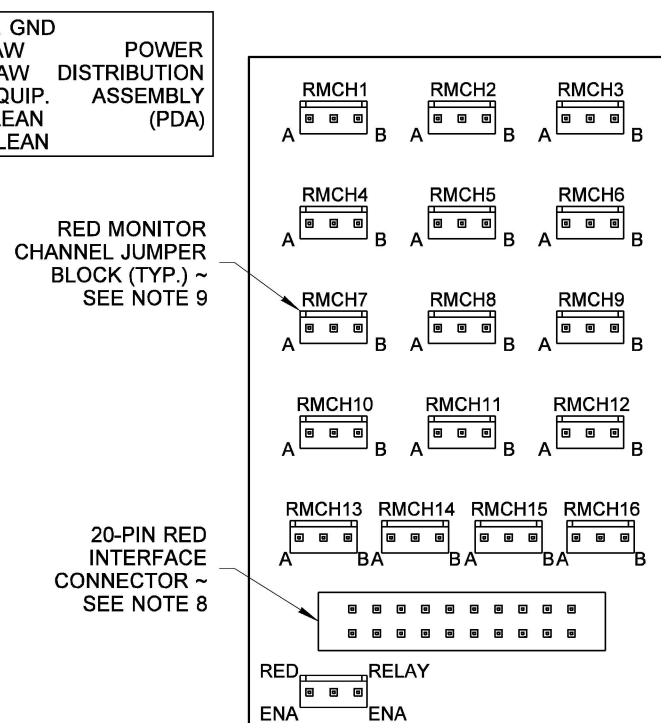
INPUT PANEL #1 LAYOUT

SERVICE PANEL #1 LAYOUT

NOTE: DIMENSIONS NOT SHOWN SHALL BE IN ACCORDANCE WITH THE TEES



SERVICE PANEL ASSEMBLY WITH GENERATOR TRANSFER SWITCH WIRING DIAGRAM (SEE NOTE 2)

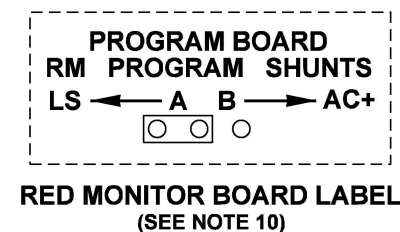


RED MONITOR PROGRAM BOARD LAYOUT (FRONT VIEW)

RED MONITOR CONNECTOR PIN ASSIGNMENTS

P1 CONNECTOR *			RED INTERFACE CONNECTOR (20-PIN)	
PIN	CONNECT TO	FUNCTION	PIN	FUNCTION
1	FT3-125	Ø1 RED	1	CHANNEL 15 RED
2	FT3-128	Ø2 RED	2	CHANNEL 16 RED
3	FT2-116	Ø3 RED	3	CHANNEL 14 RED
4	FT1-101	Ø4 RED	4	N/A
5	FT3-131	Ø5 RED	5	CHANNEL 13 RED
6	FT3-134	Ø6 RED	6	SPECIAL FUNCTION #2
7	FT2-122	Ø7 RED	7	CHANNEL 12 RED
8	FT1-107	Ø8 RED	8	SPECIAL FUNCTION #1
9	FT6-A121	OLA RED	9	CHANNEL 10 RED
10	FT6-A124	OLB RED	10	CHANNEL 11 RED
11	FT5-A114	OLC RED	11	CHANNEL 9 RED
12	FT4-A101	OLD RED	12	CHANNEL 8 RED
13	NC	N/A	13	CHANNEL 7 RED
14	AC+	AC+	14	CHANNEL 6 RED
P2 CONNECTOR *			15	CHANNEL 5 RED
1	FT2-113	PED2 RED	16	CHANNEL 4 RED
2	FT1-104	PED4 RED	17	CHANNEL 3 RED
3	FT2-119	PED6 RED	18	CHANNEL 2 RED
4	FT1-110	PED8 RED	19	CHANNEL 1 RED
P3 CONNECTOR *			20	RED ENABLE
1	02-1	+24V RM COIL		
2	02-6	DC GND		

* NOTE: CONNECTORS P1, P2, AND P3 MOUNTED ON BACK OF BOARD



RED MONITOR BOARD LABEL (SEE NOTE 10)



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TYPE 332 SIGNAL CABINET LAYOUT STANDARD PLAN J-80.10-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

[Signature]

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STATE DESIGN ENGINEER



Washington State Department of Transportation