

- NOTES:**
- BEFORE WORKING ON ANY EQUIPMENT ON THIS DRAWING, CONTACT NOC X73333
  - CGS2520 PORTS 1 THRU 16 ARE FIBER PORTS (LC), PORTS 17 THRU 24 ARE COPPER PORTS (RJ45). ALL SWITCH PORTS ARE FAST ETHERNET (FA).
  - ASA5512 PORTS 0 THRU 5 ARE COPPER GIGABIT ETHERNET (GI) PORTS (RJ45).
  - TERMINATE CAT 5E STP W/ RJ45 USING T568A STANDARD.
  - COMMUNICATIONS CABINET AND JUNGLEMUX ARE MANAGED BY CABLE TRANSPORT ENGINEERING GROUP.
  - CISCO FIREWALL AND SWITCH DEVICES LOCATED IN THE COMM CABINET ARE MANAGED BY THE CONTROL SYSTEM NETWORK ENGINEERING GROUP.
  - END DEVICES CONNECTED TO THE NETWORK SUCH AS RELAYS, RTAC, AXION, HMI, AND SERVERS ARE NOT MANAGED BY ITS.

**SENSITIVE  
DO NOT DISTRIBUTE**

**REVISIONS**

NO	DATE	DESCRIPTION	BY
1	M/D/Y	ENTER DESC HERE	AB

DESIGN BY	DATE
Matthew Guzman	08/30/23
APPROVED BY	DATE
-	-/-

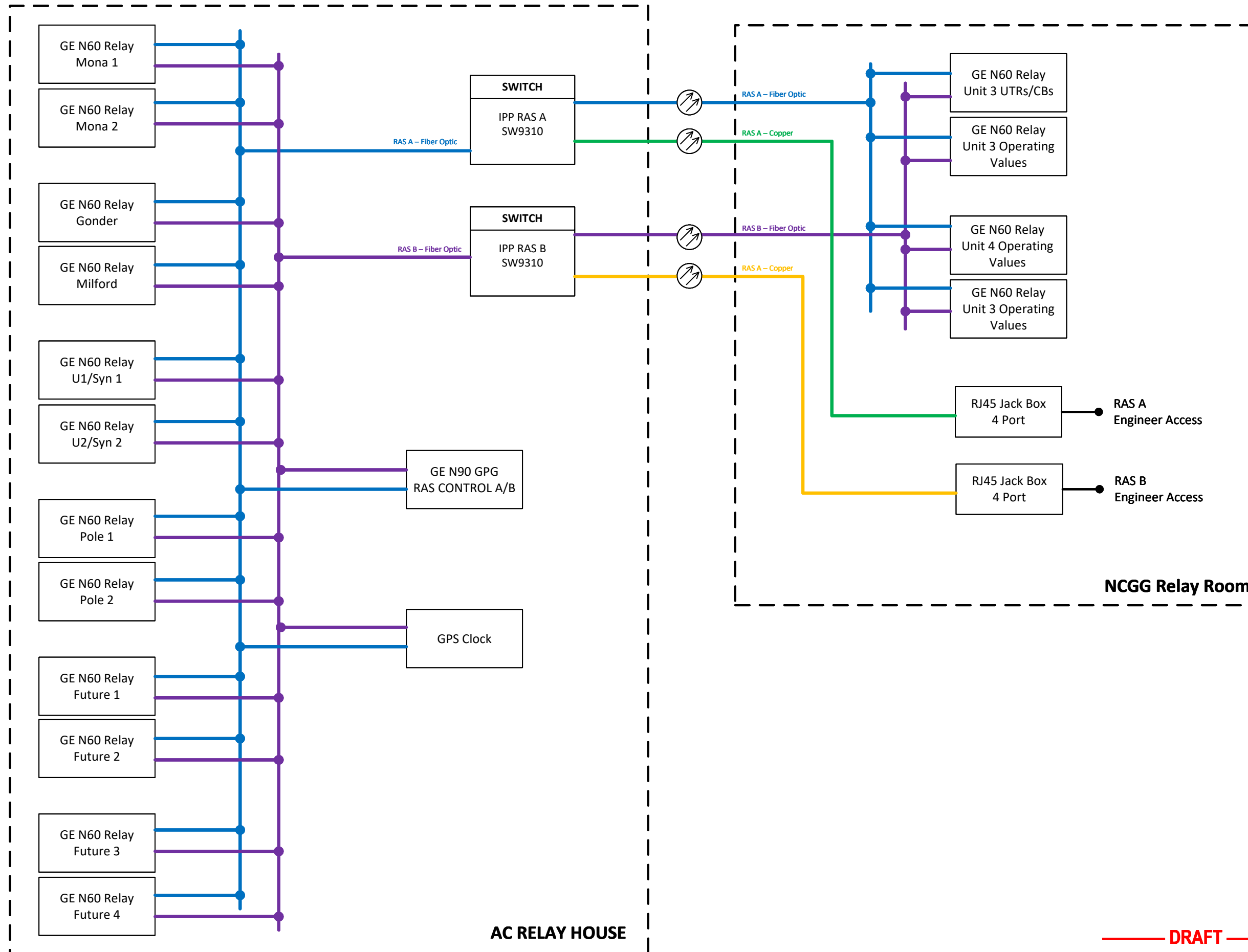
TITLE SITE BLOCK DIAGRAM

**Intermountain Power Plant RAS**  
FACILITY ADDRESS  
SCADA – ENERGY CONTROL SYSTEM

DRAWING NUMBER

**CSDR-XXXX**

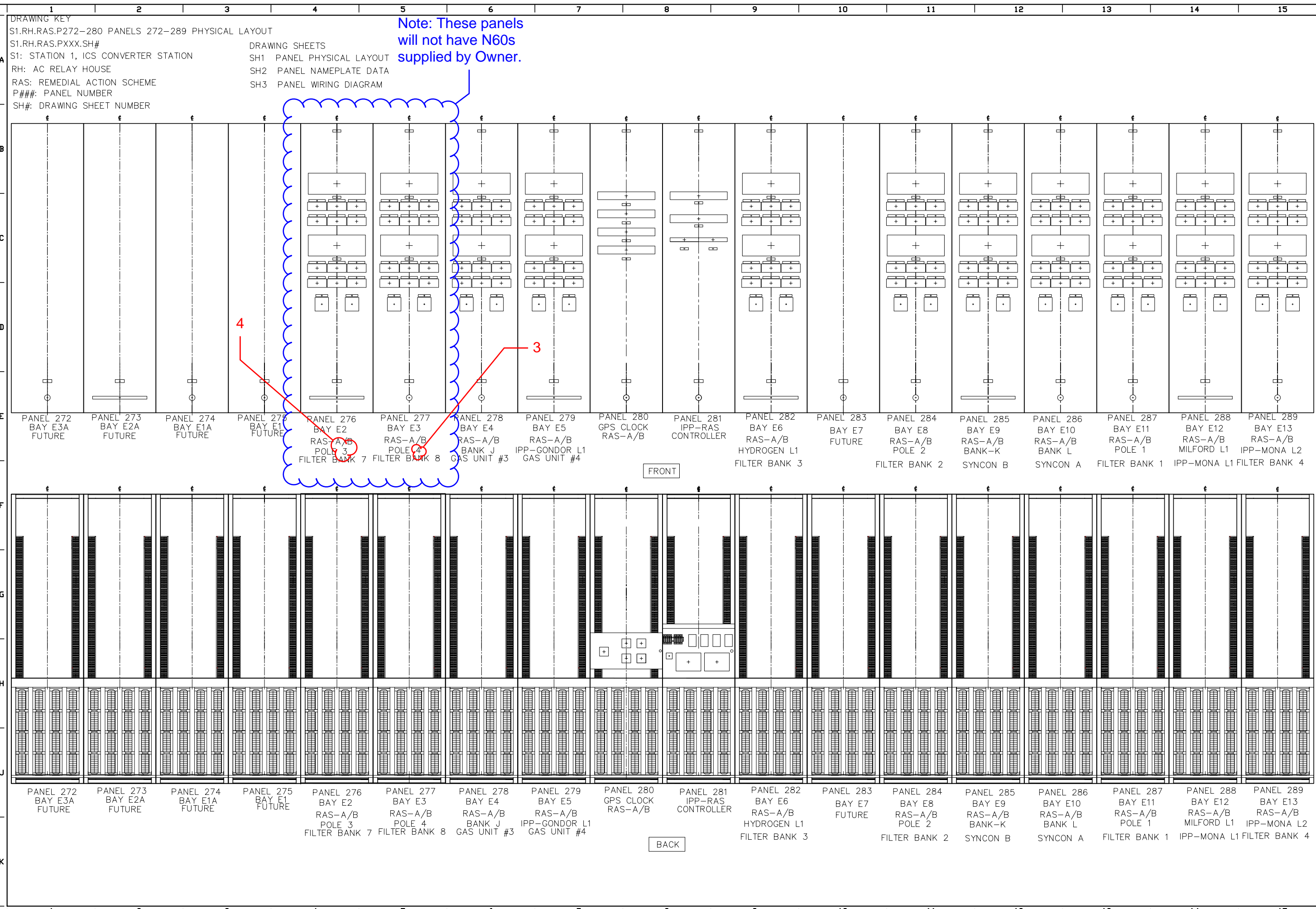
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**AC RELAY HOUSE**

**NCGG Relay Room**

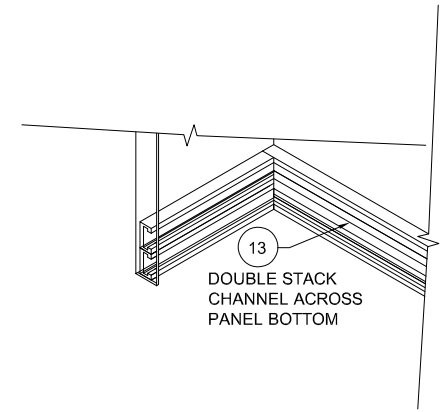
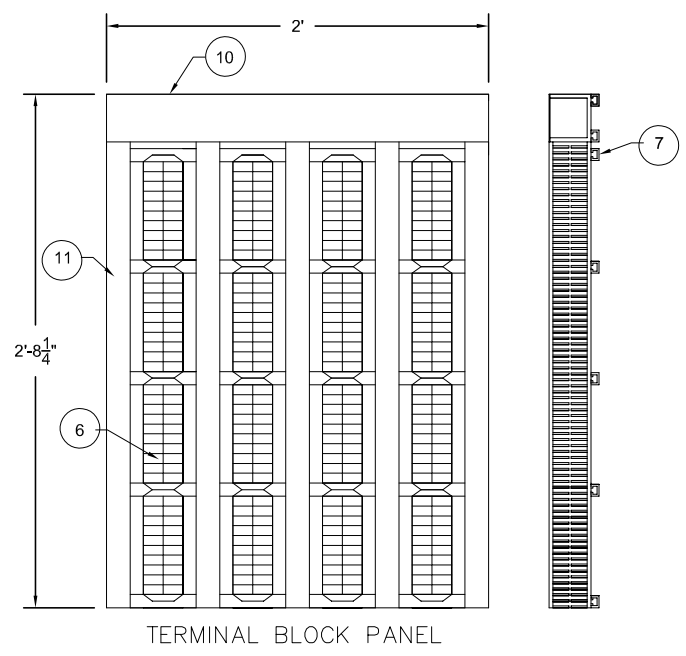
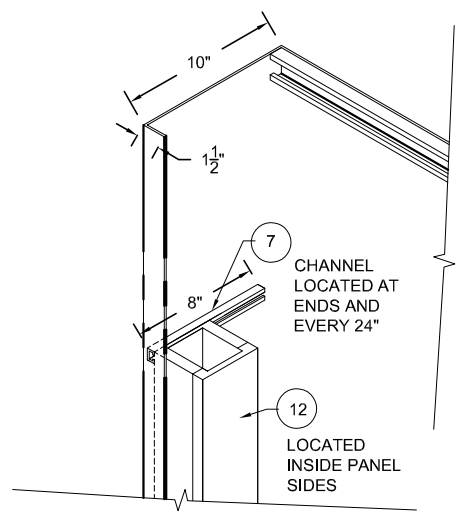
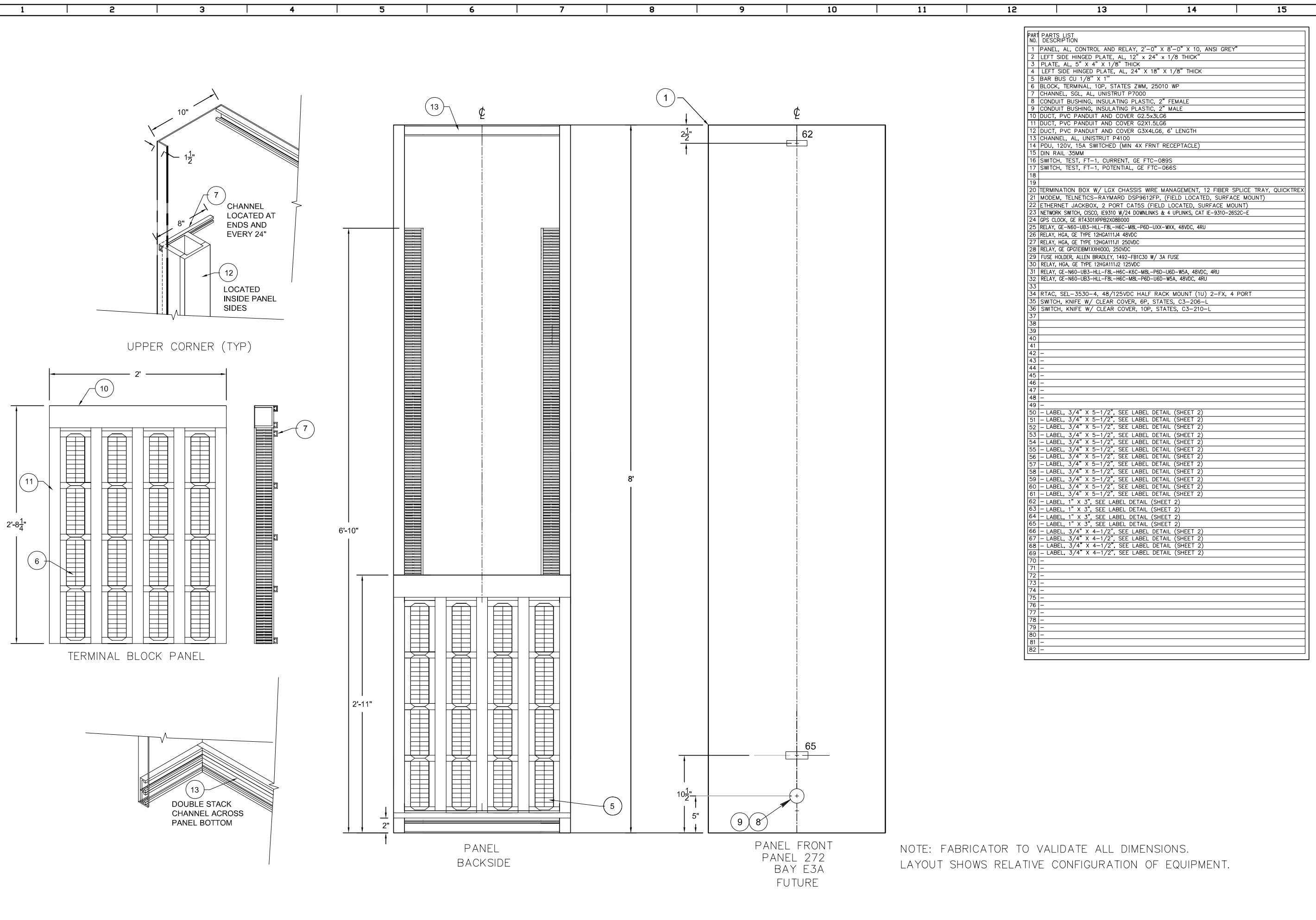
**DRAFT  
ENGINEERING SKETCH**



DGN	CHK	APP	
TBS	TBS	SMB	
DESCRIPTION OF REVISIONS			
NO.	DATE	ISSUED FOR APPROVAL	
0	9-20-23		

RELAY BOARD PANELS 272-289  
 REDIAL ACTION SCHEME PANEL LAYOUT  
 INTERMOUNTAIN AC RELAY HOUSE

DRAWING NUMBER:  
 S1.RH.RAS.P272-289



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	CPS CLOCK, GE RT430VPR2X088000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

DRAWING TITLE:  
**RAS PANEL 272  
(FUTURE BAY E3A)  
LAYOUT**

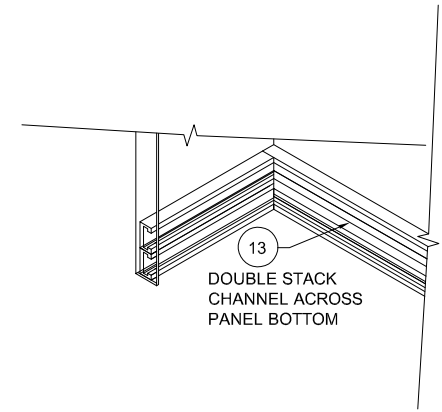
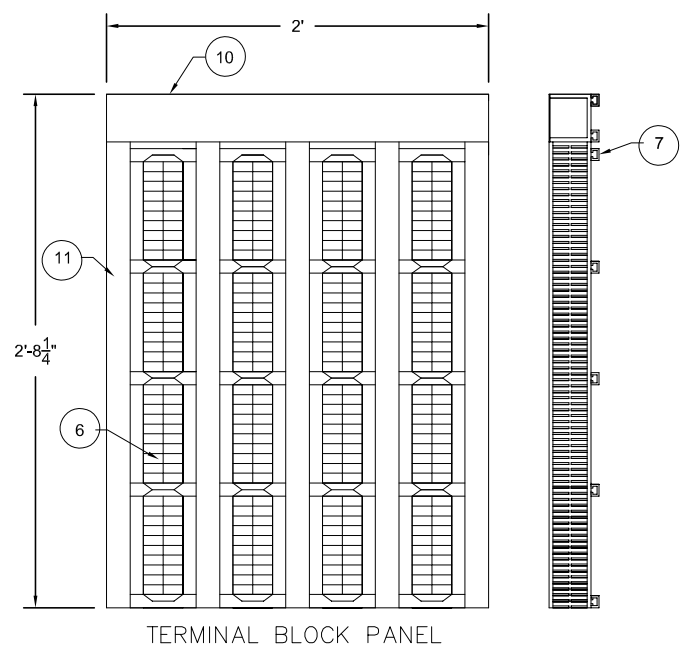
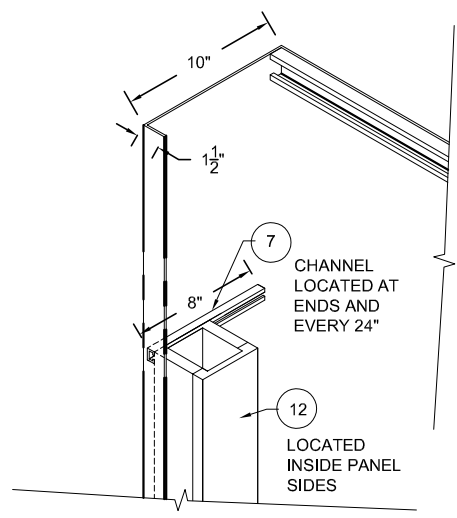
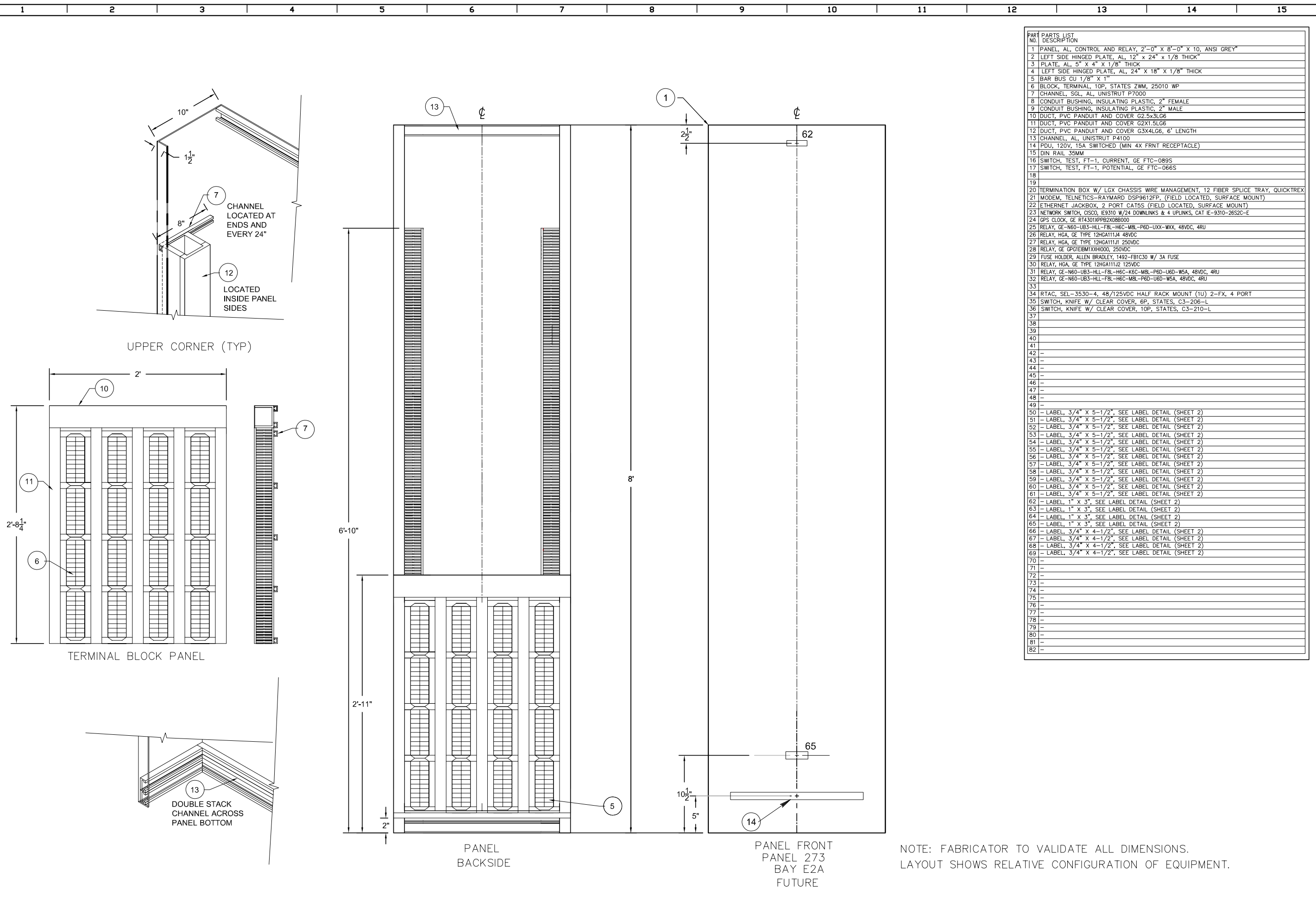
DRAWING NUMBER:  
**S1.RH.RAS.P272.SH1**

**IPP**  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY"
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK"
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
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20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	CPS CLOCK, GE RT430VPRP2X088000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGE1BMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FB1C30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.

NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

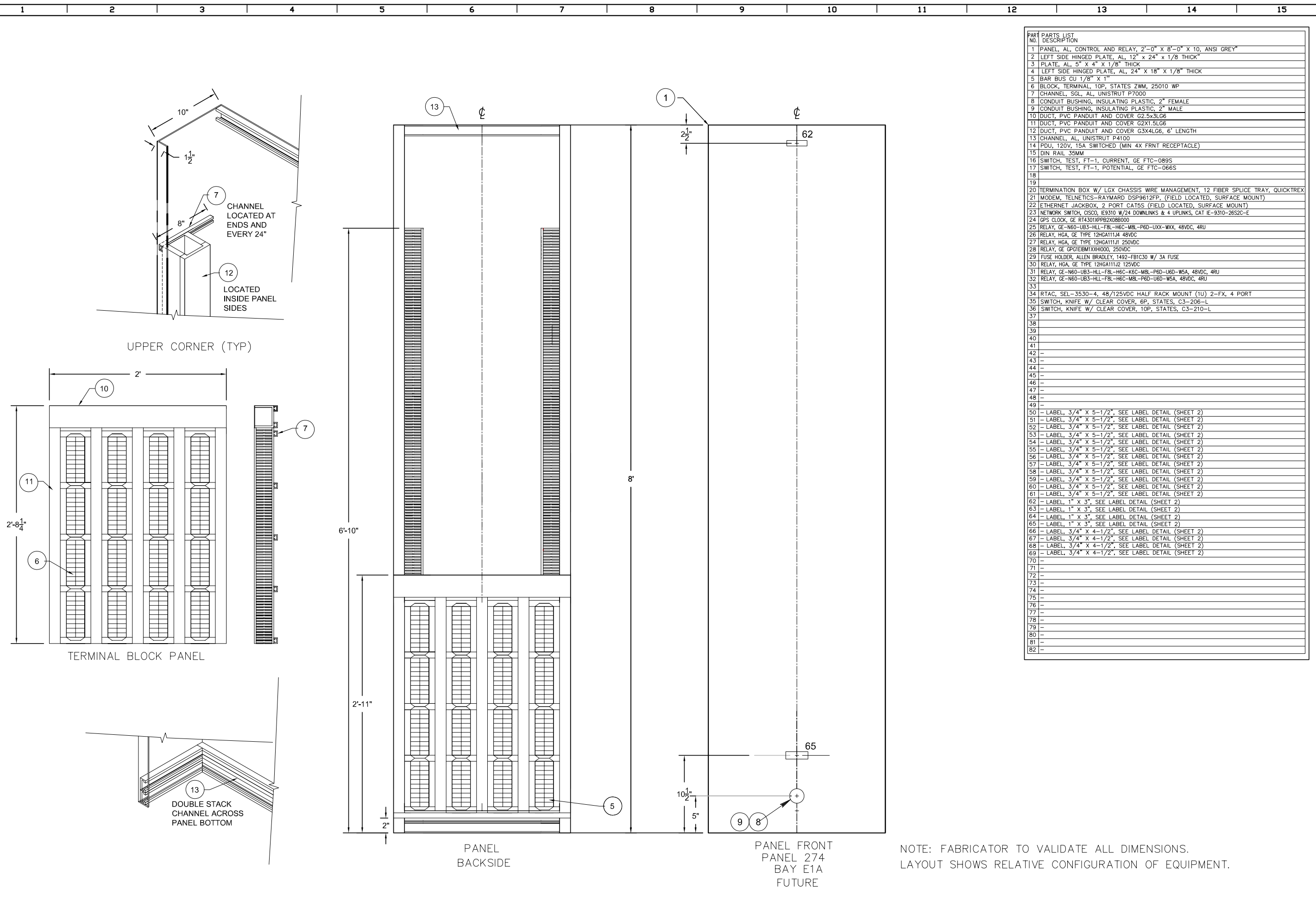
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**RAS PANEL 273  
(FUTURE BAY E2A)  
LAYOUT**

DRAWING NUMBER:  
**S1.RH.RAS.P273.SH1**

**IPP**  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

REV. 0



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	CPS CLOCK, GE RT430VPR2X088000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

DRAWING TITLE:  
**RAS PANEL 274  
(FUTURE BAY E1A)  
LAYOUT**

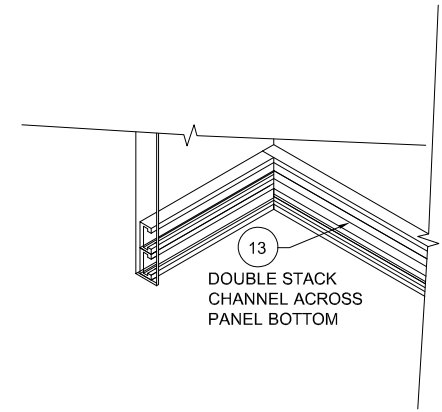
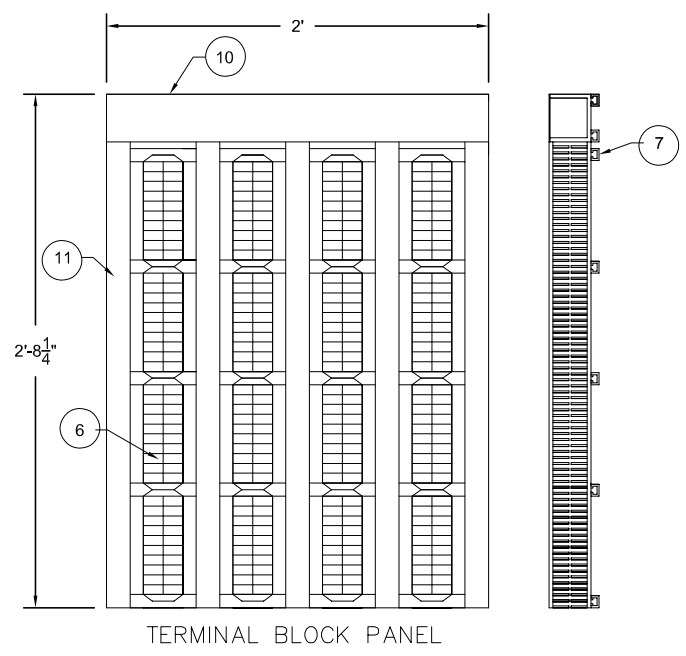
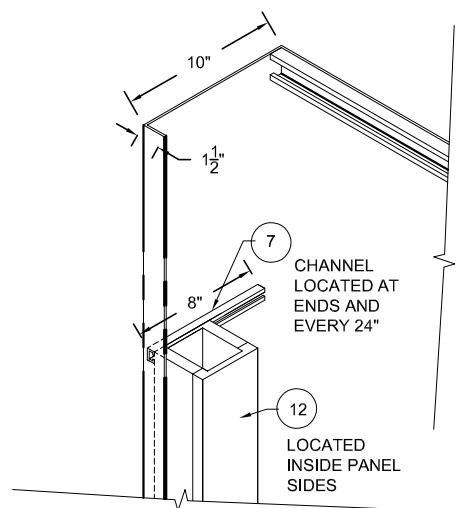
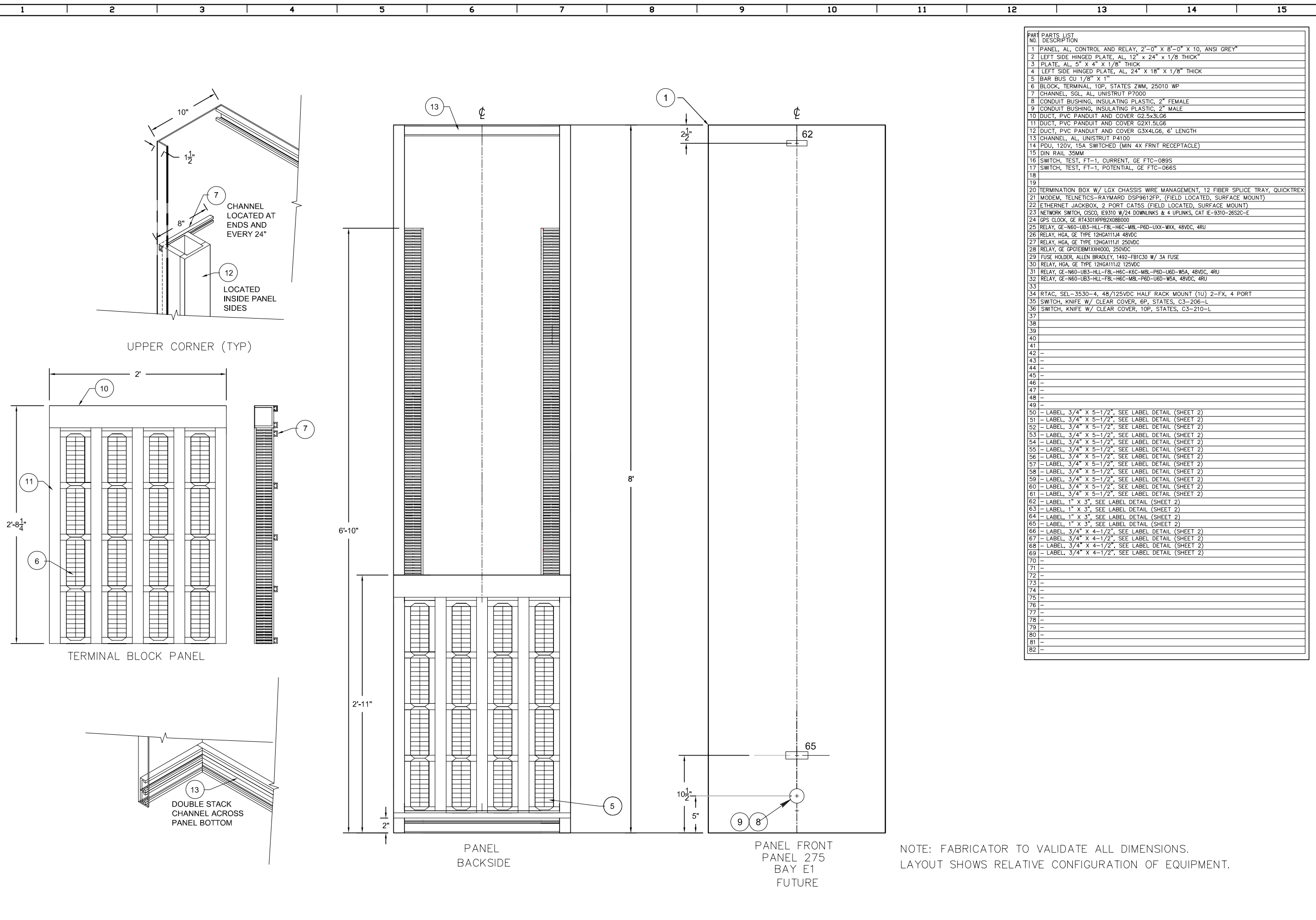
DRAWING NUMBER:  
**S1.RH.RAS.P274.SH1**

**IPP**  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



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14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
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29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
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53	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
54	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
55	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
56	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
57	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
58	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
59	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
60	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
61	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
62	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
63	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
64	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
65	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
66	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
67	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
68	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

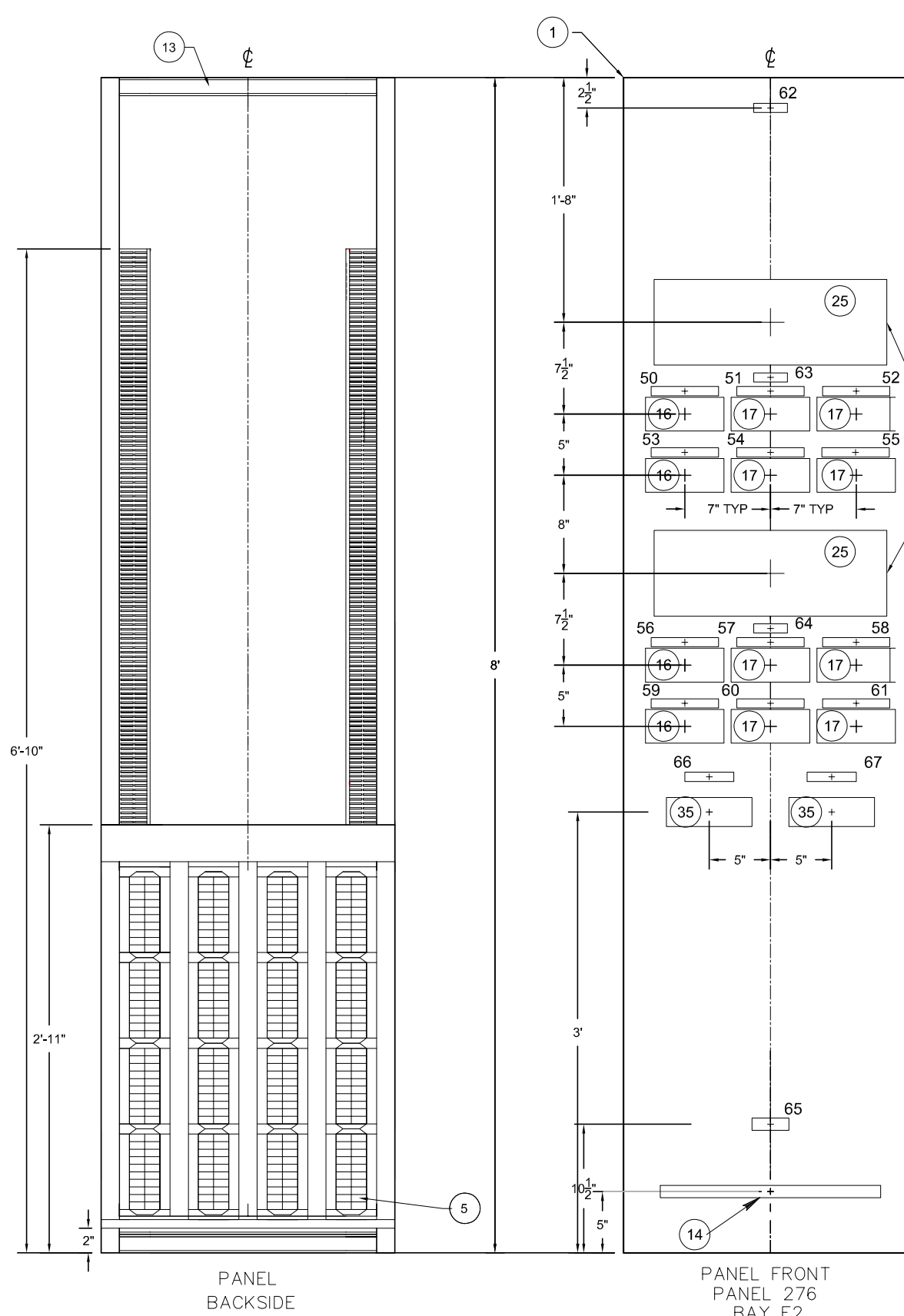
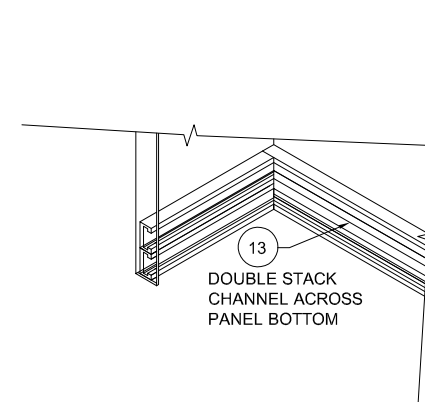
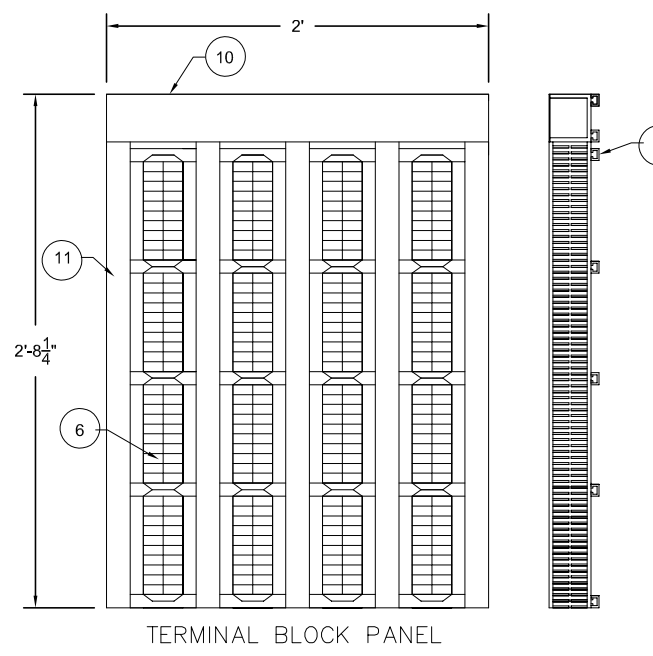
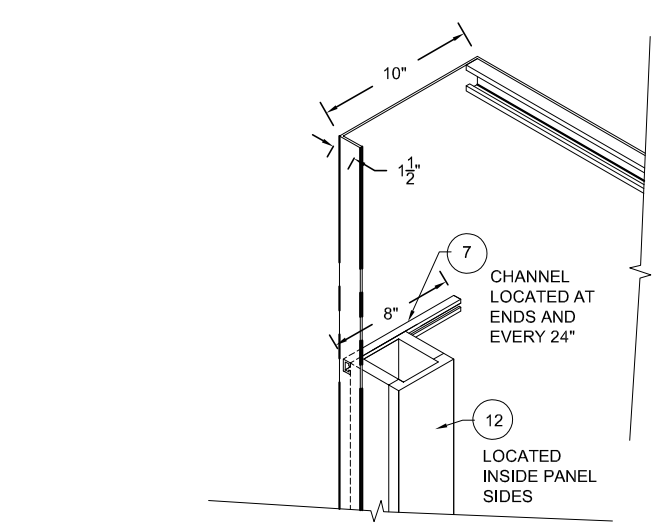
DRAWING TITLE: RAS PANEL 275 (FUTURE BAY E1) LAYOUT

DRAWING NUMBER: S1.RH.RAS.P274.SH1

IPPP  
INTERMOUNTAIN POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



FUTURE N60.  
CUT AND ADD  
BLANKING PLATE

PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMAR DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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DGN	CHK	APP	SMB	NO.	DATE	DESCRIPTION OF REVISIONS	ISSUED FOR APPROVAL
				0	9-21-23		

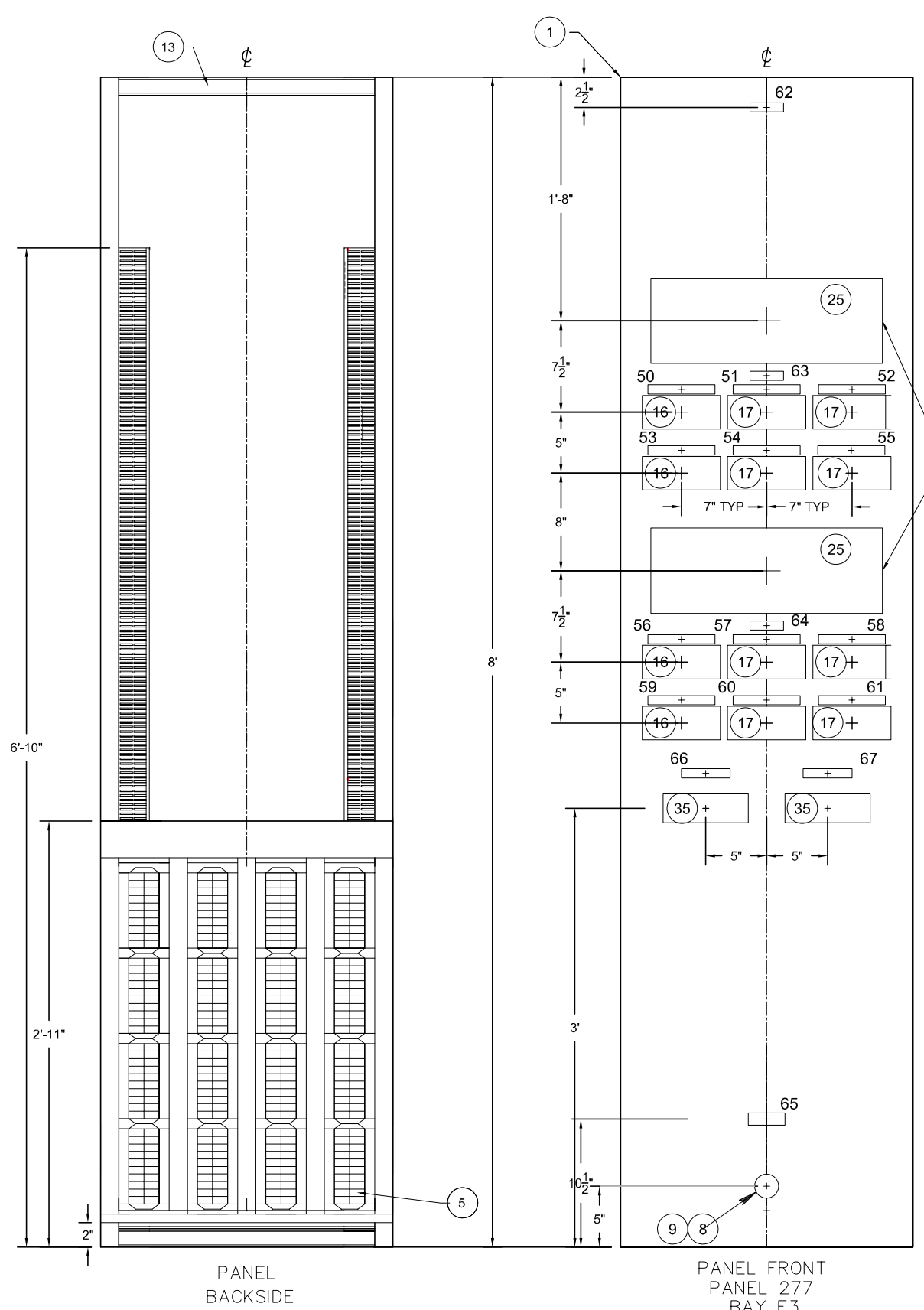
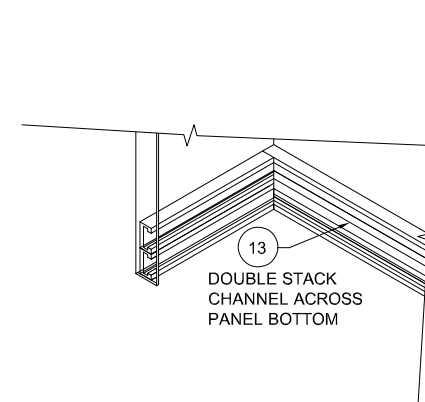
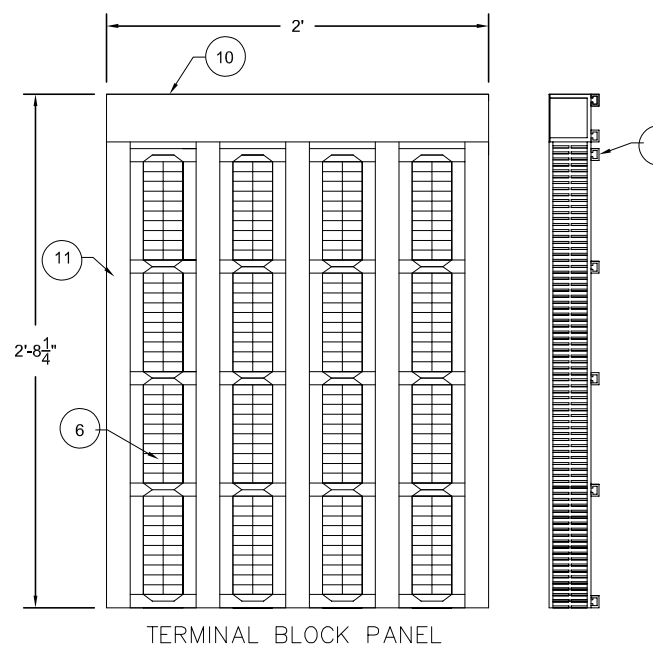
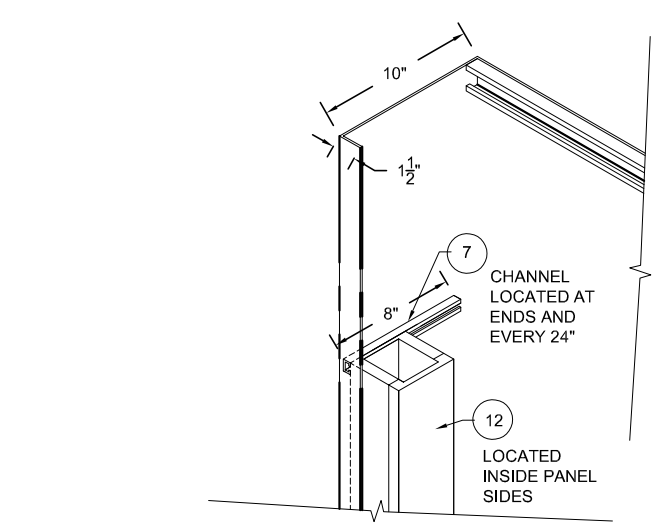
DRAWING TITLE:  
**RAS PANEL 276  
POLE 3 AND FILTER BANK 7  
LAYOUT**

DRAWING NUMBER:  
S1.RH.RAS.P276.SH1

IPP  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



FUTURE N60.  
CUT AND ADD  
BLANKING PLATE

PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMAR DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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DGN	CHK	APP	SMB	NO.	DATE	DESCRIPTION OF REVISIONS	ISSUED FOR APPROVAL
				0	9-21-23		

DRAWING TITLE:  
**RAS PANEL 277  
POLE 4 AND FILTER BANK 8  
LAYOUT**

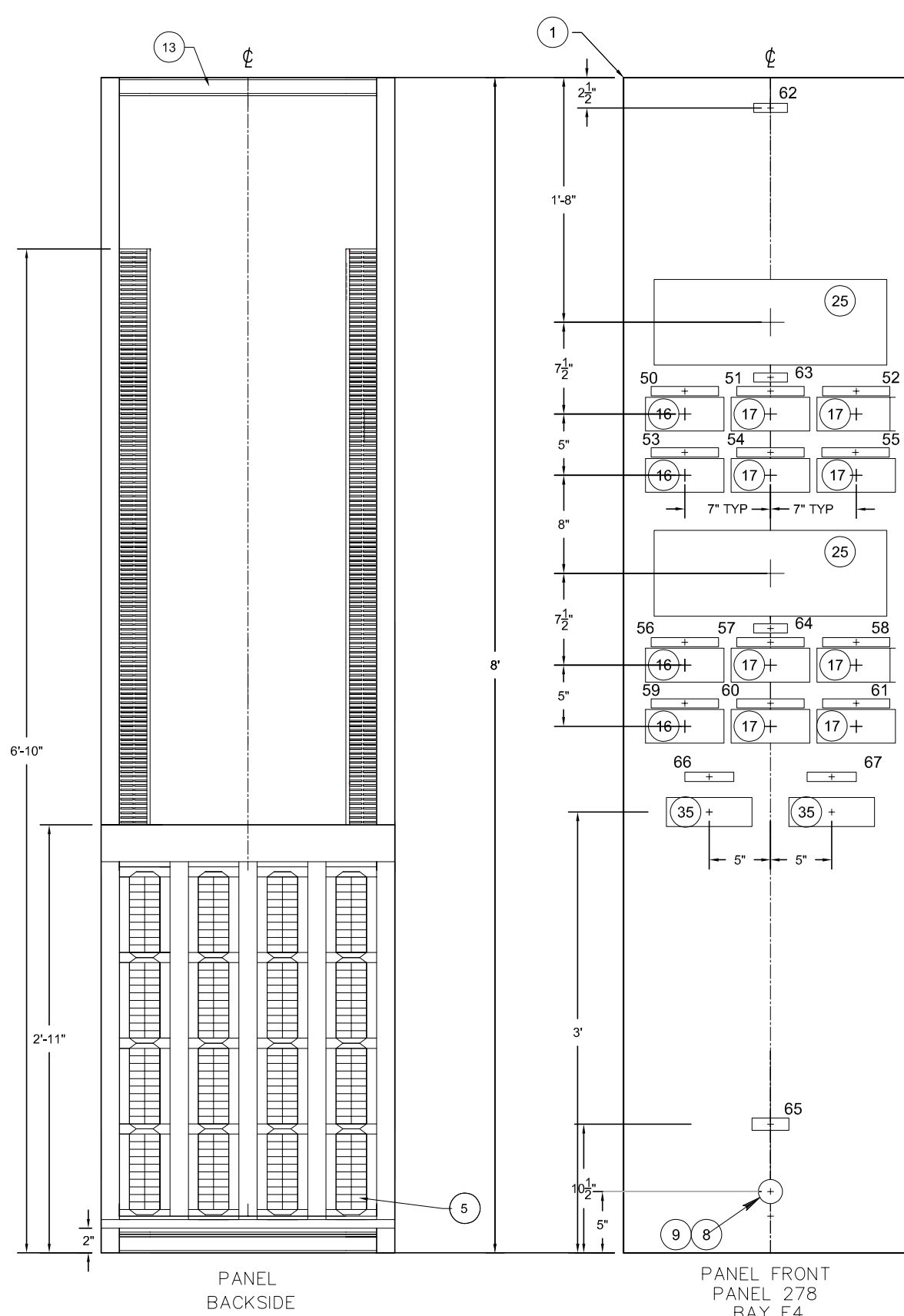
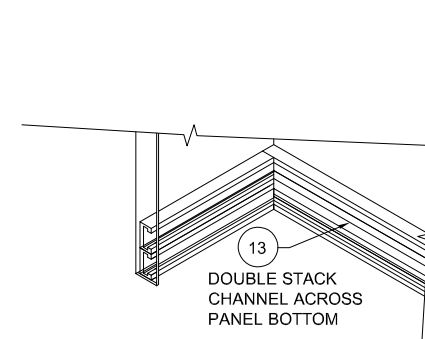
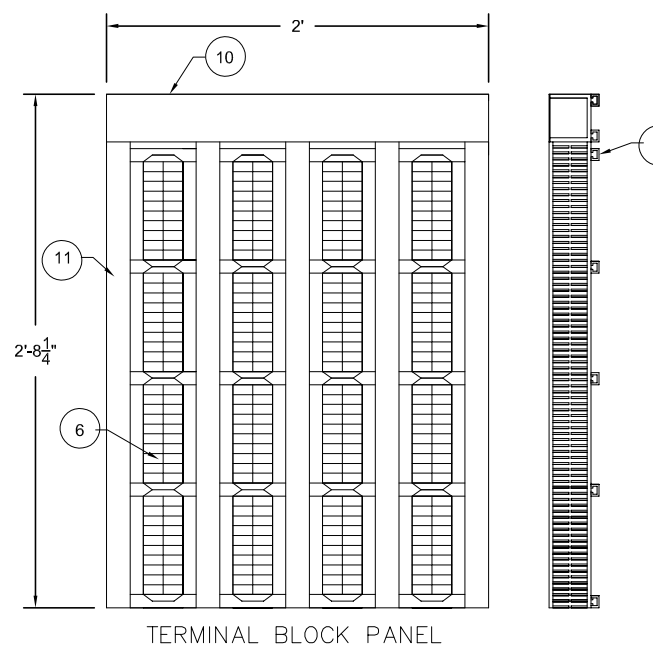
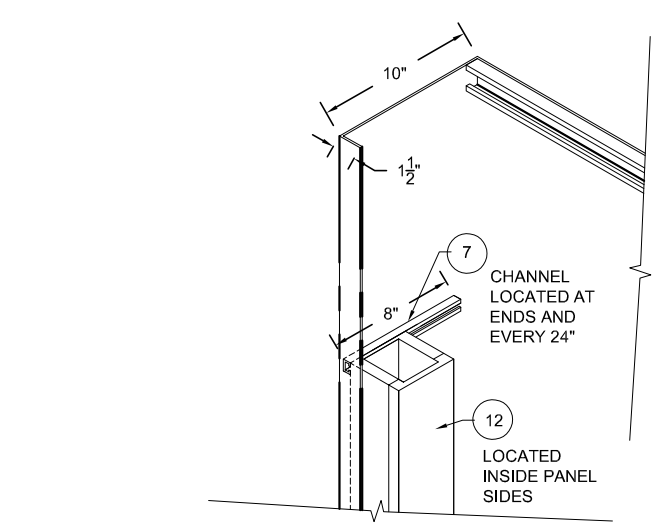
DRAWING NUMBER:  
S1.RH.RAS.P277.SH1

IPP  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.





PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY"
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK"
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGE1BM1XXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FB1C30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	SMB
0	9-21-23	ISSUED FOR APPROVAL				

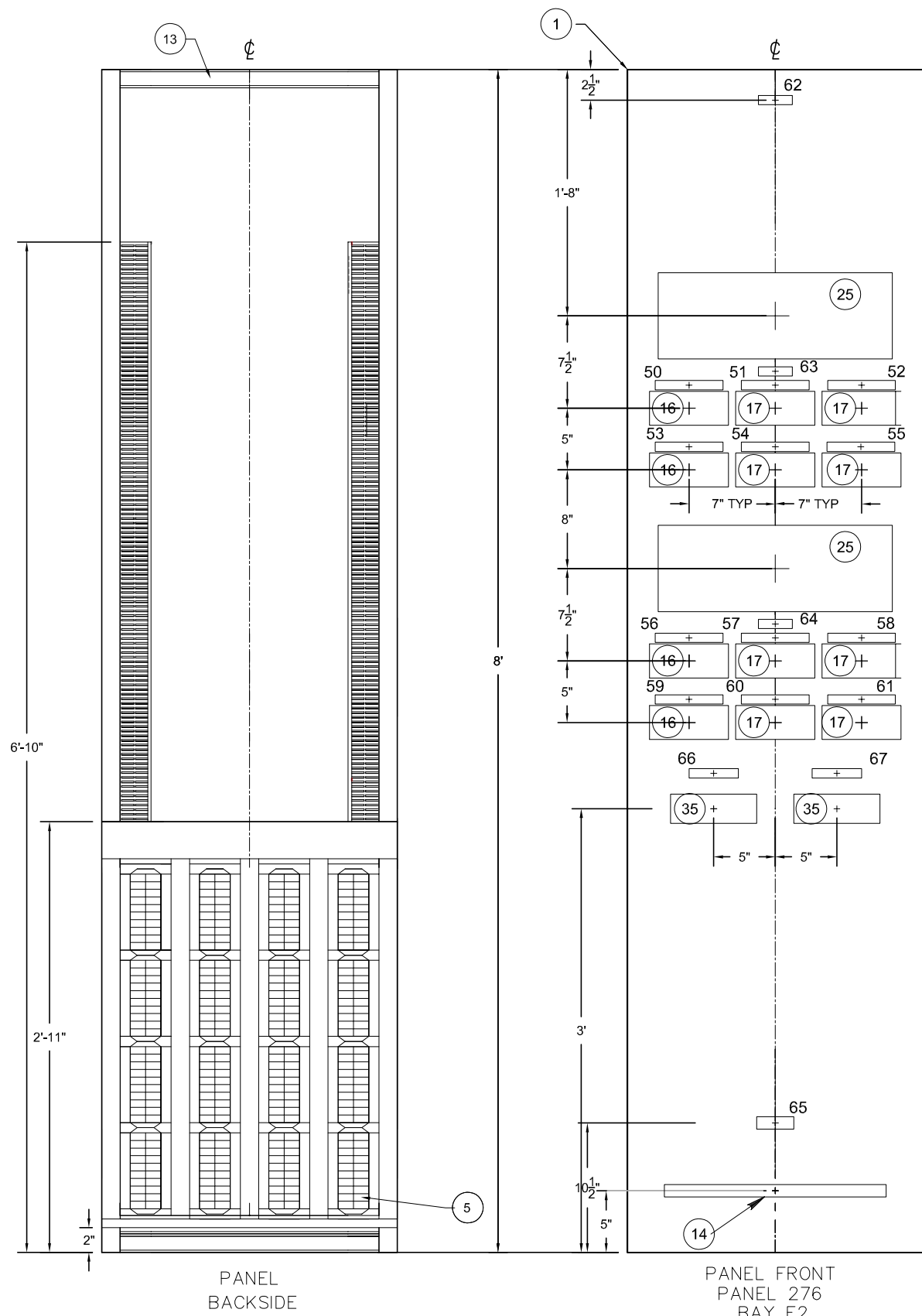
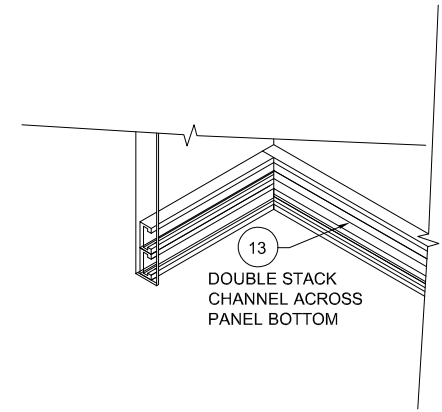
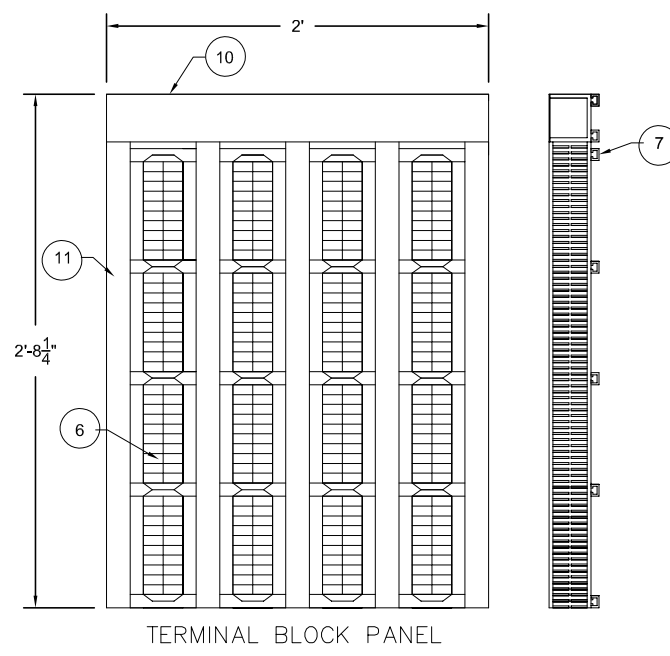
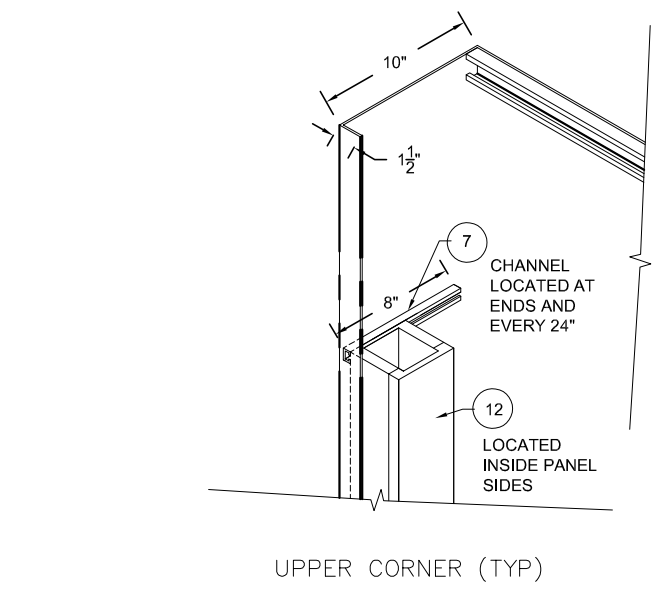
DRAWING TITLE:  
**RAS PANEL 278  
 BANK J AND GAS GENERATION UNIT #3  
 LAYOUT**

DRAWING NUMBER:  
 S1.RH.RAS.P278.SH1

IPP  
 INTERMOUNTAIN  
 POWER PROJECT

DRAWN BY: TBS  
 DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
 LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY"
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK"
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGE1BM1XXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FB1C30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
51	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
52	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
53	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
54	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
55	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
56	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
57	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
58	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
59	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
60	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
61	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
62	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
63	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
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68	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

DRAWING TITLE:  
**RAS PANEL 276  
 POLE 3 AND FILTER BANK 7  
 LAYOUT**

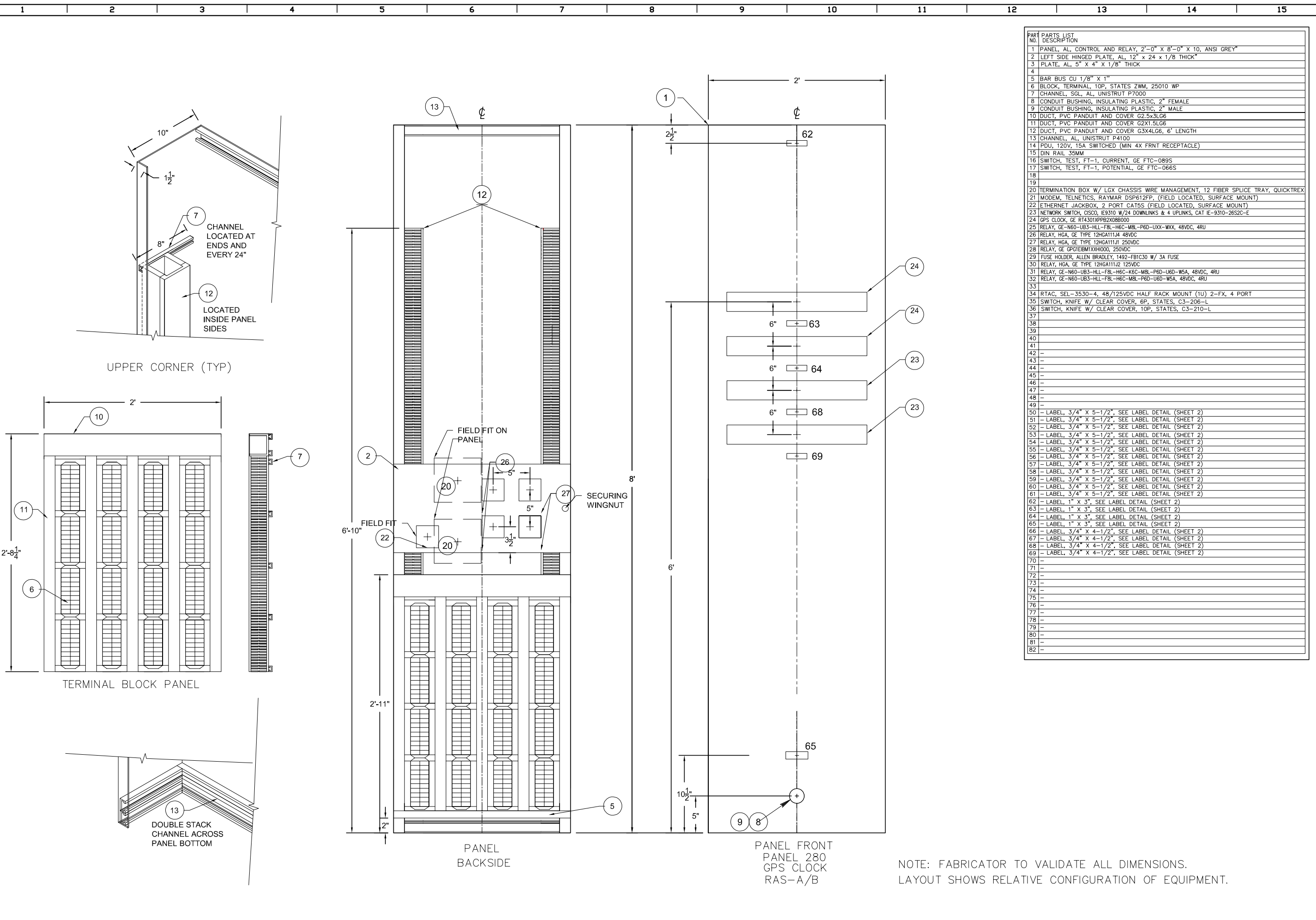
DRAWING NUMBER:  
 S1.RH.RAS.P276.SH1

IPPP  
 INTERMOUNTAIN  
 POWER PROJECT

DRAWN BY: TBS  
 DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
 LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY"
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK"
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS, RAYMAR DSP612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT4301PBP2X088000
25	RELAY, GE-N60-UB3-HLL-F8L-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HG1114 48VDC
27	RELAY, HGA, GE TYPE 12HG111J1 250VDC
28	RELAY, GE GPGE1BM1XXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FB1C30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HG111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-F8L-H6C-K6C-M8L-P6D-U6D-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-F8L-H6C-M8L-P6D-U6D-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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DGN	CHK	APP	SMB	NO.	DATE	DESCRIPTION OF REVISIONS	
						TBS	ISSUED FOR APPROVAL
				0	9-21-23		

DRAWING TITLE:  
**RAS PANEL 280  
GPS CONTROLLER  
LAYOUT**

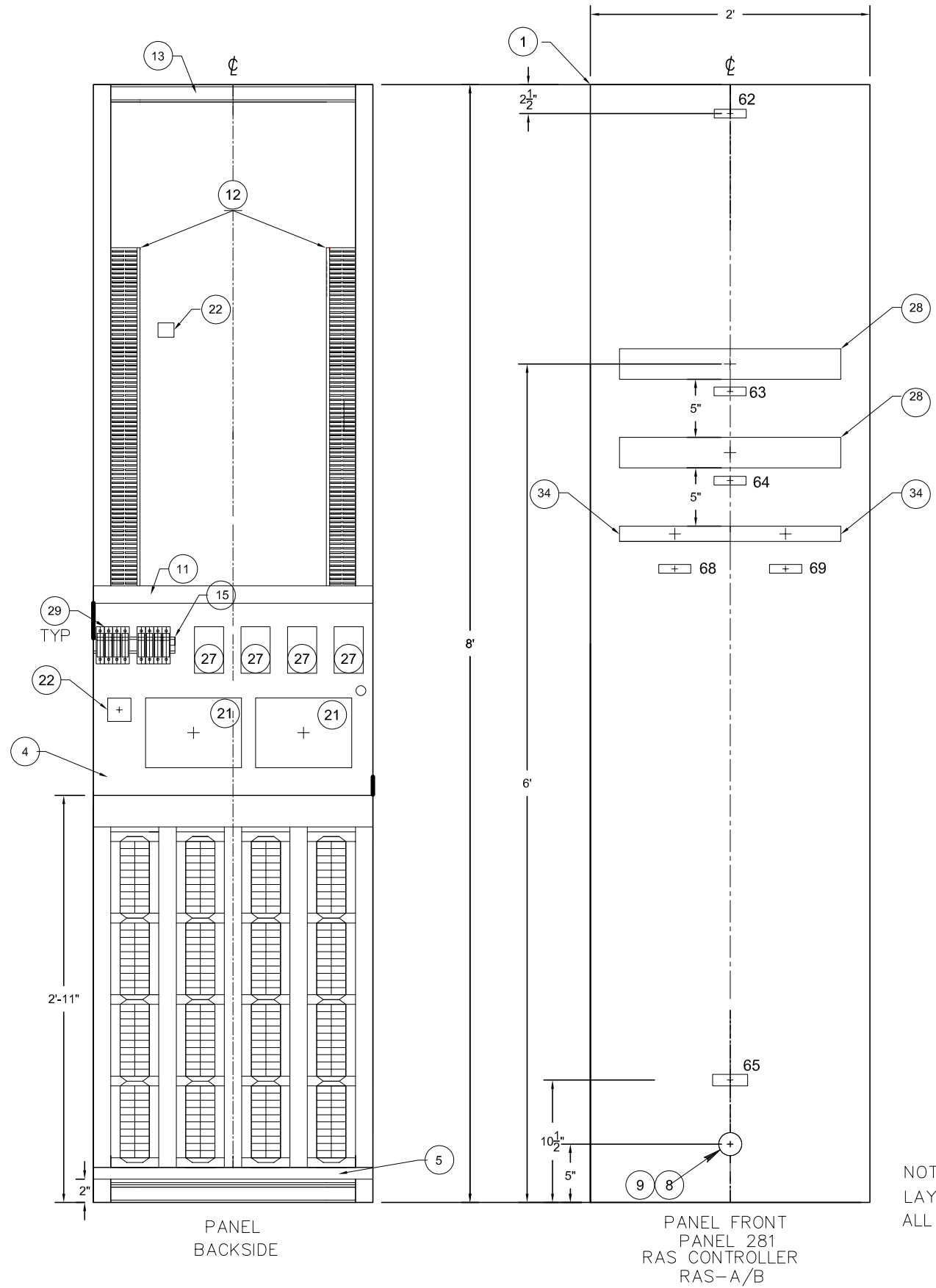
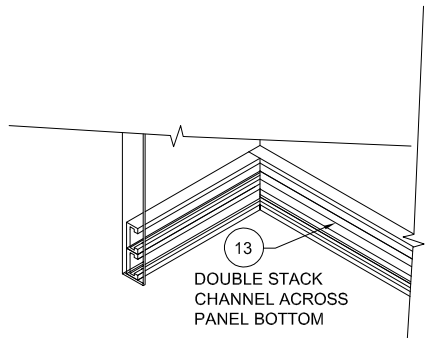
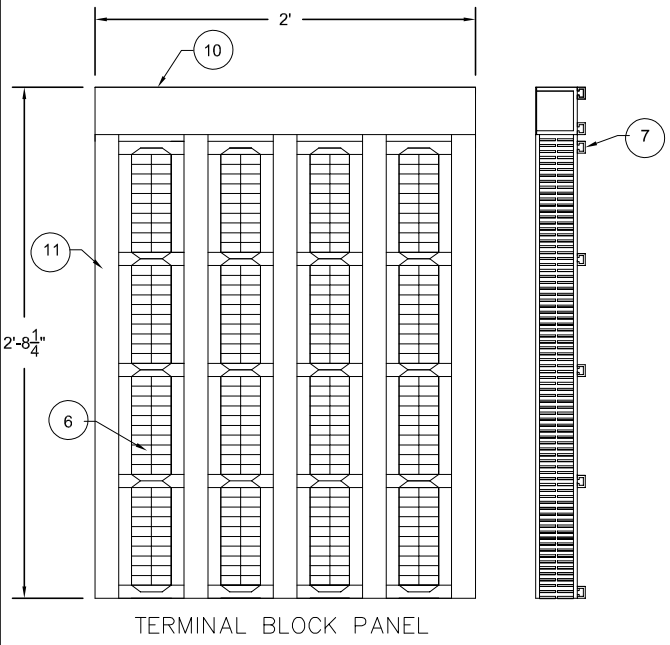
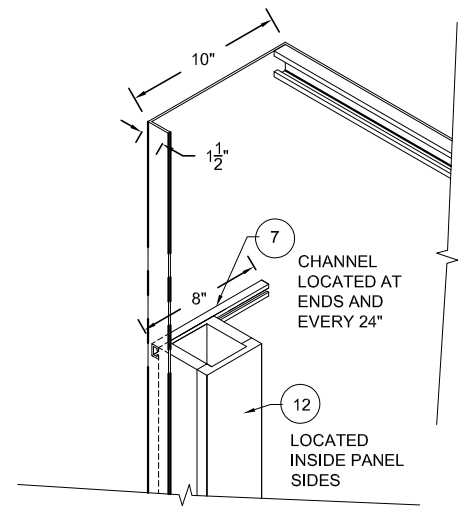
DRAWING NUMBER:  
S1.RH.RAS.P280.SH1

IPPP  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

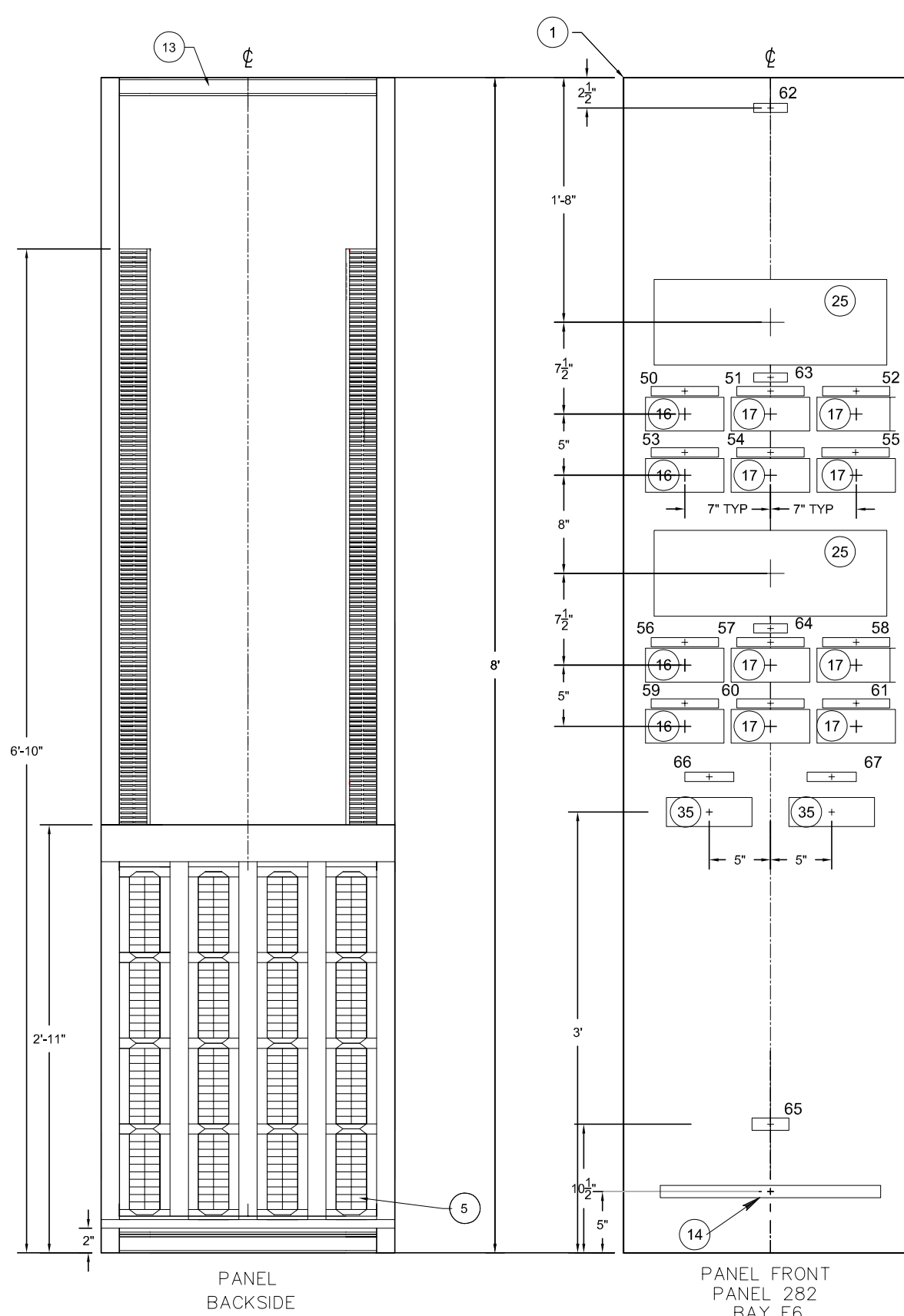
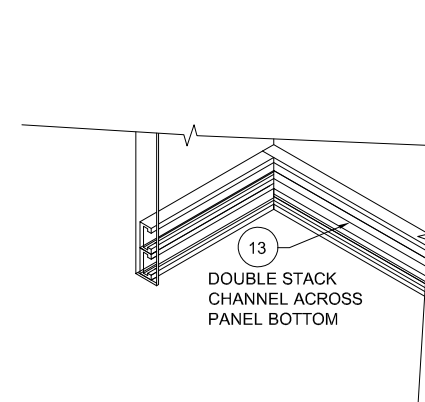
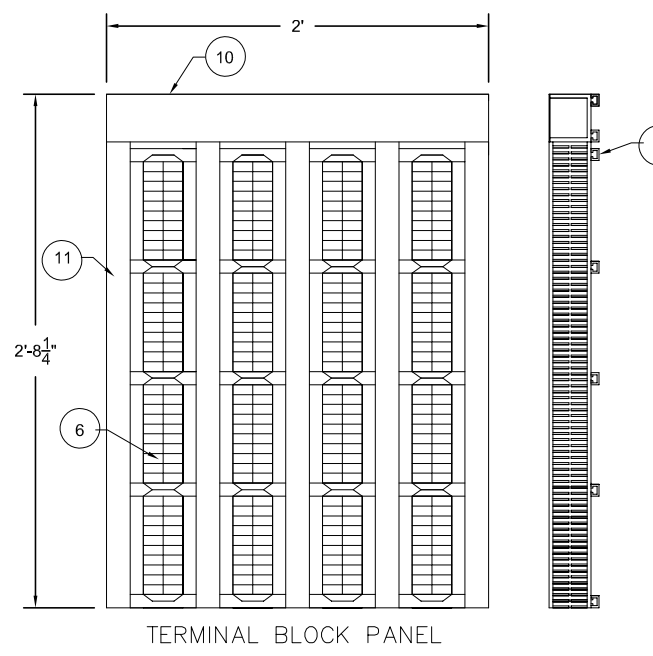
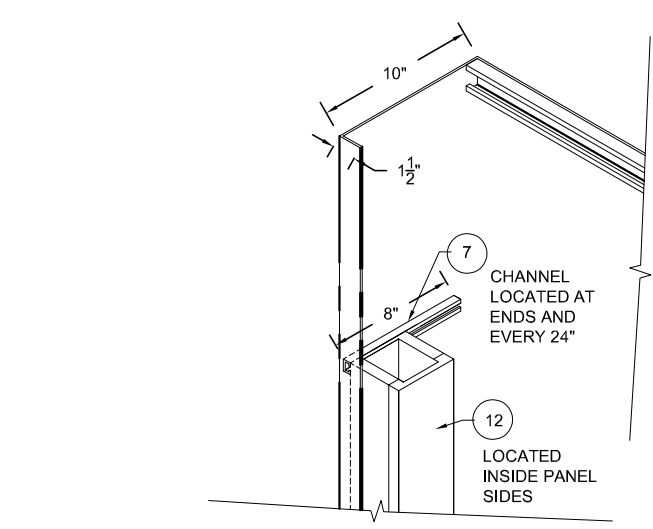
NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.

PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY"
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK"
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
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19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT4301PFB2X088000
25	RELAY, GE-N60-UB3-HLL-F8L-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGE1BMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FB1C30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-F8L-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-F8L-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.  
ALL EQUIPMENT ON HINGED PLATE TO BE FIELD MOUNTED

DGN	CHK	APP	SMB	REV.
DESCRIPTION OF REVISIONS				
ISSUED FOR APPROVAL				
DATE				
NO. 9-21-23				
DRAWING TITLE:				
RAS PANEL 281 RAS CONTROLLER LAYOUT				
DRAWING NUMBER:				
S1.RH.RAS.P281.SH1				
IPPP				
INTERMOUNTAIN POWER PROJECT				
DRAWN BY: TBS				
DATE: 9-21-2023				



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
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19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	SMB
0	9-21-23	ISSUED FOR APPROVAL				

DRAWING TITLE:  
**RAS PANEL 282  
 HYDROGEN L1 & FILTER BANK #3  
 LAYOUT**

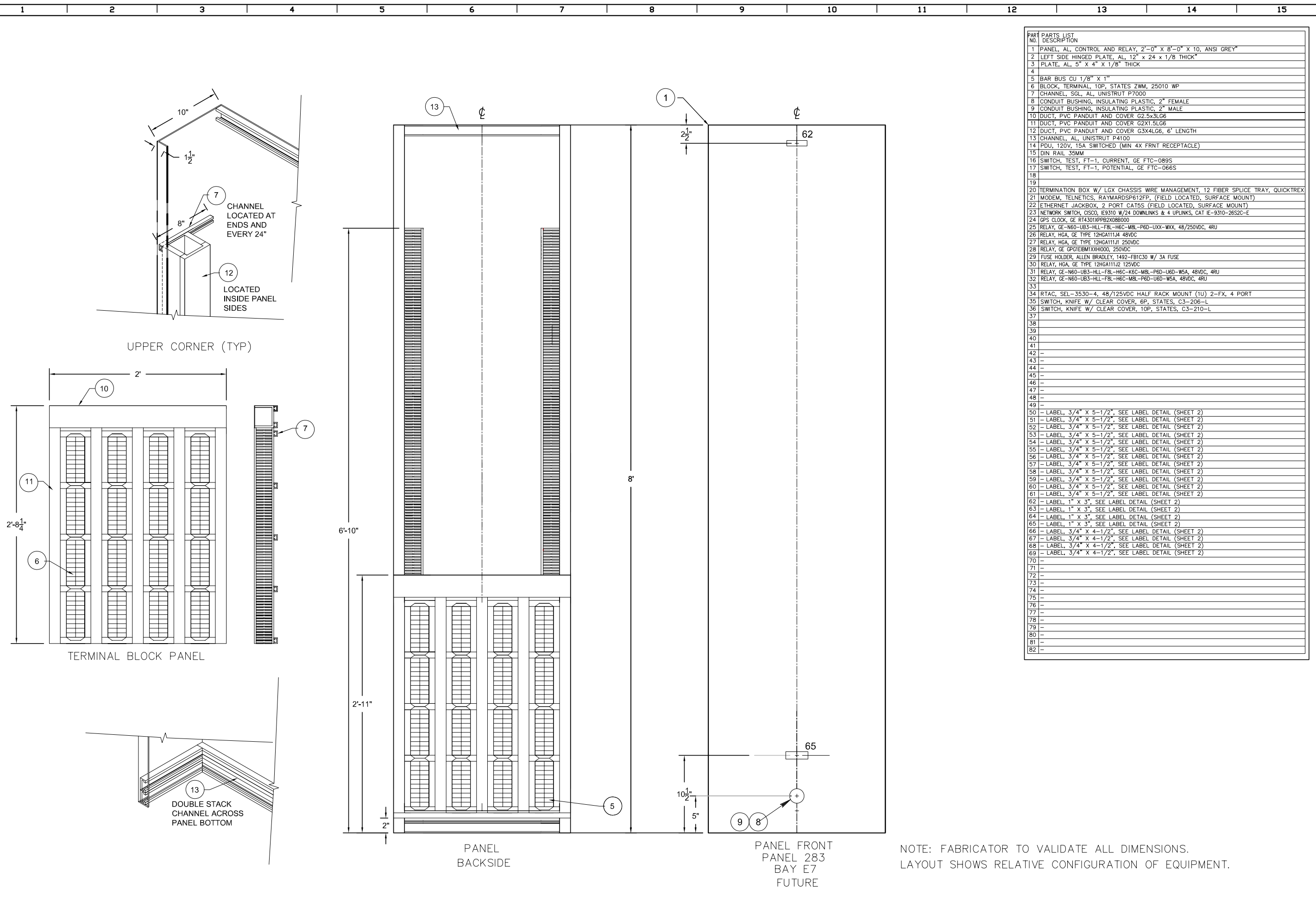
DRAWING NUMBER:  
 S1.RH.RAS.P279.SH1

IPM  
 INTERMOUNTAIN  
 POWER PROJECT

DRAWN BY: TBS  
 DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
 LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24 x 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTRX
21	MODEM, TELNETICS, RAYMARDSP612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48/250VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UGD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
51	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
52	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
53	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
54	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
55	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
56	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
57	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
58	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
59	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
60	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
61	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
62	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
63	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
64	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
65	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
66	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
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68	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

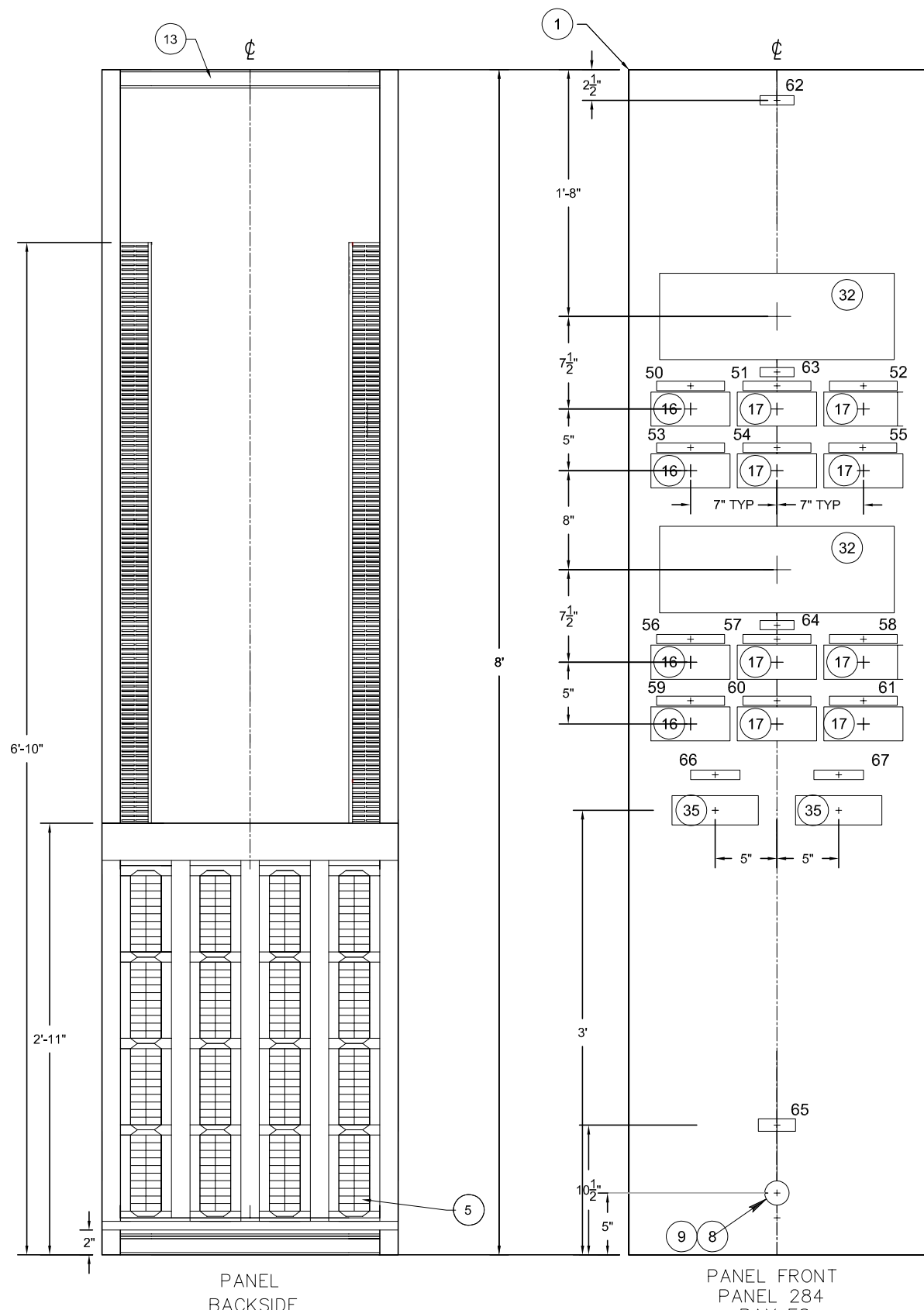
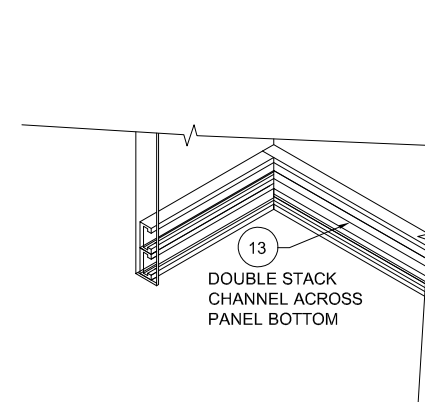
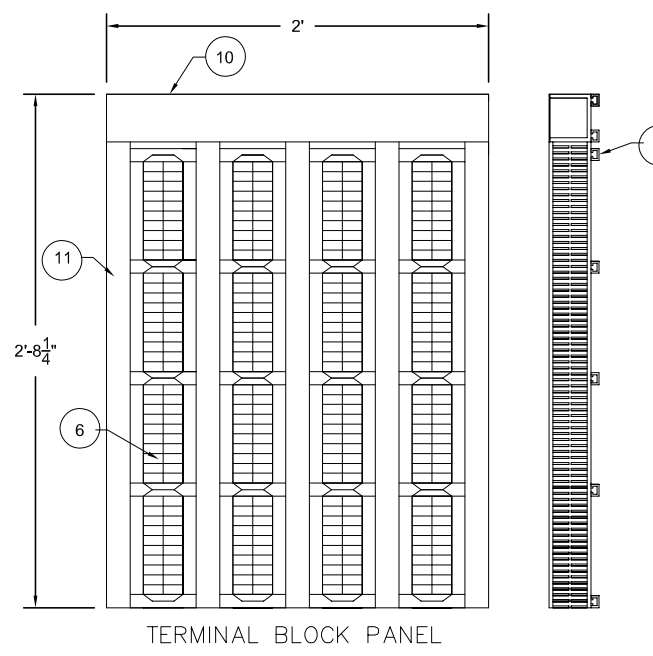
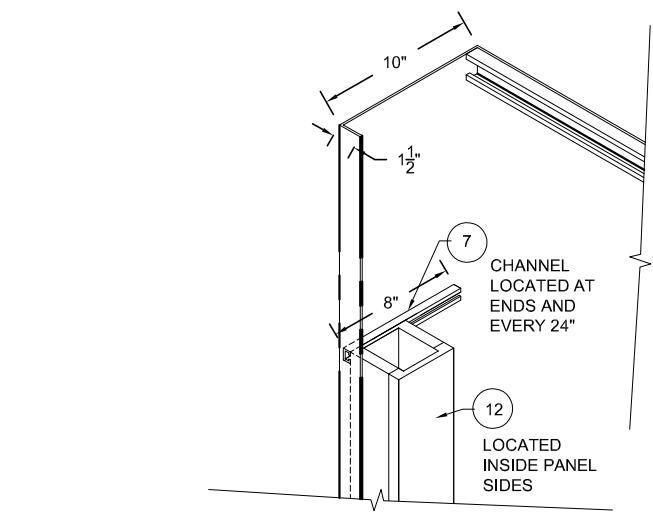
DRAWING TITLE: RAS PANEL 283 (FUTURE BAY E7) LAYOUT

DRAWING NUMBER: S1.RH.RAS.P283.SH1

IPP  
INTERMOUNTAIN POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK
3	PLATE, AL, 5" X 4" X 1/8 THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8 THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTRX
21	MODEM, TELNETICS-RAYMAR DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT55 (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
51	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

DRAWING TITLE:  
**RAS PANEL 284  
POLE 2 AND FILTER BANK #2  
LAYOUT**

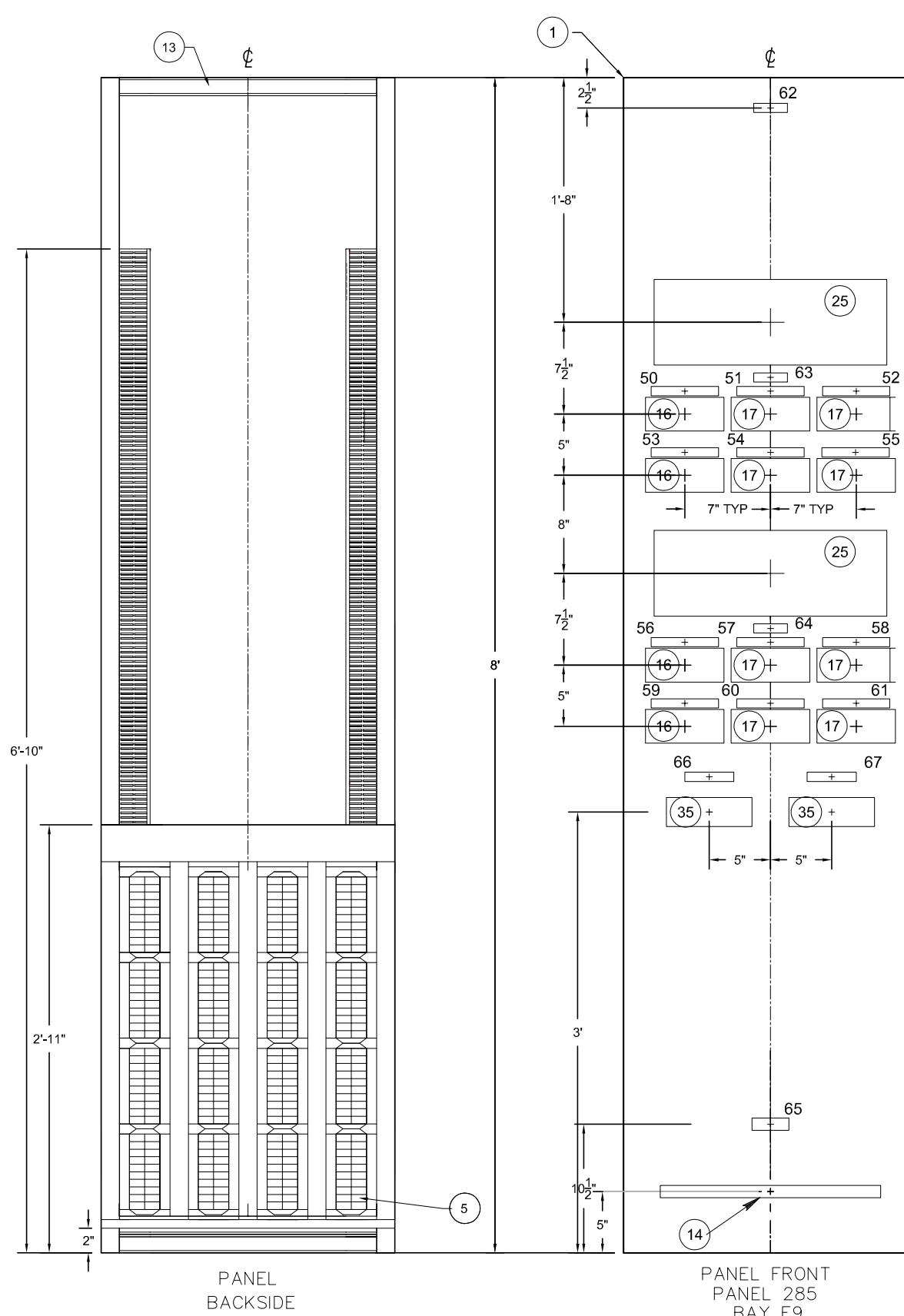
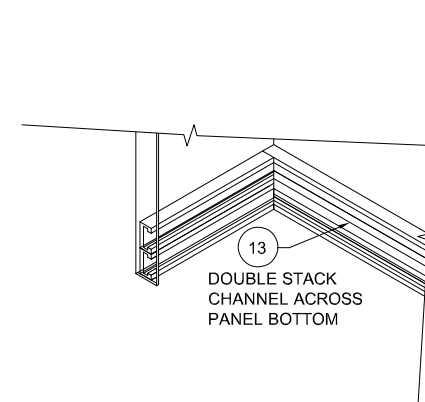
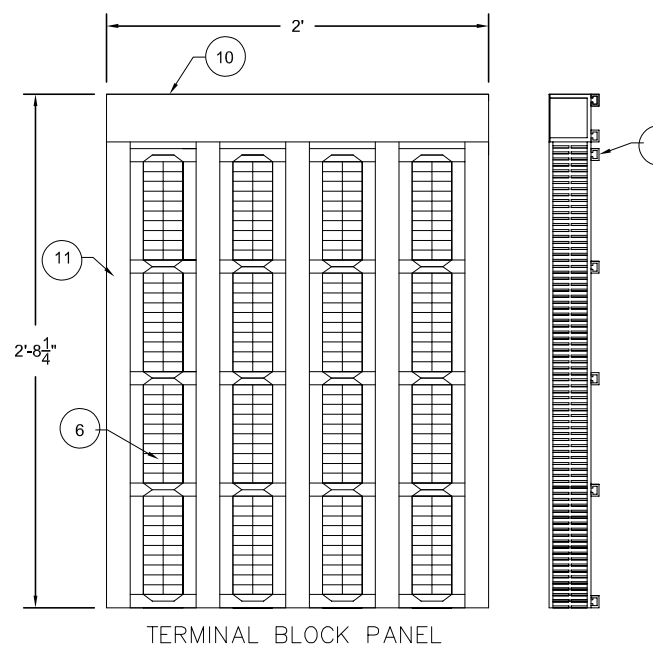
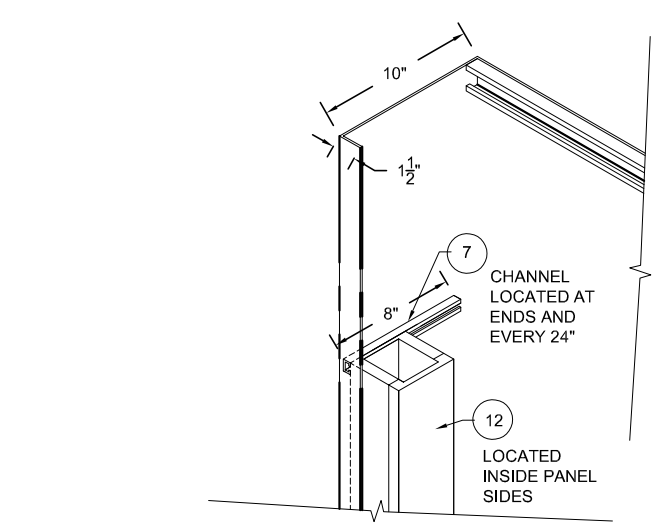
DRAWING NUMBER:  
S1.RH.RAS.P284.SH1

IPP  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
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20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HGA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

DRAWING TITLE:  
**RAS PANEL 285  
 BANK-K AND SYNCON B  
 LAYOUT**

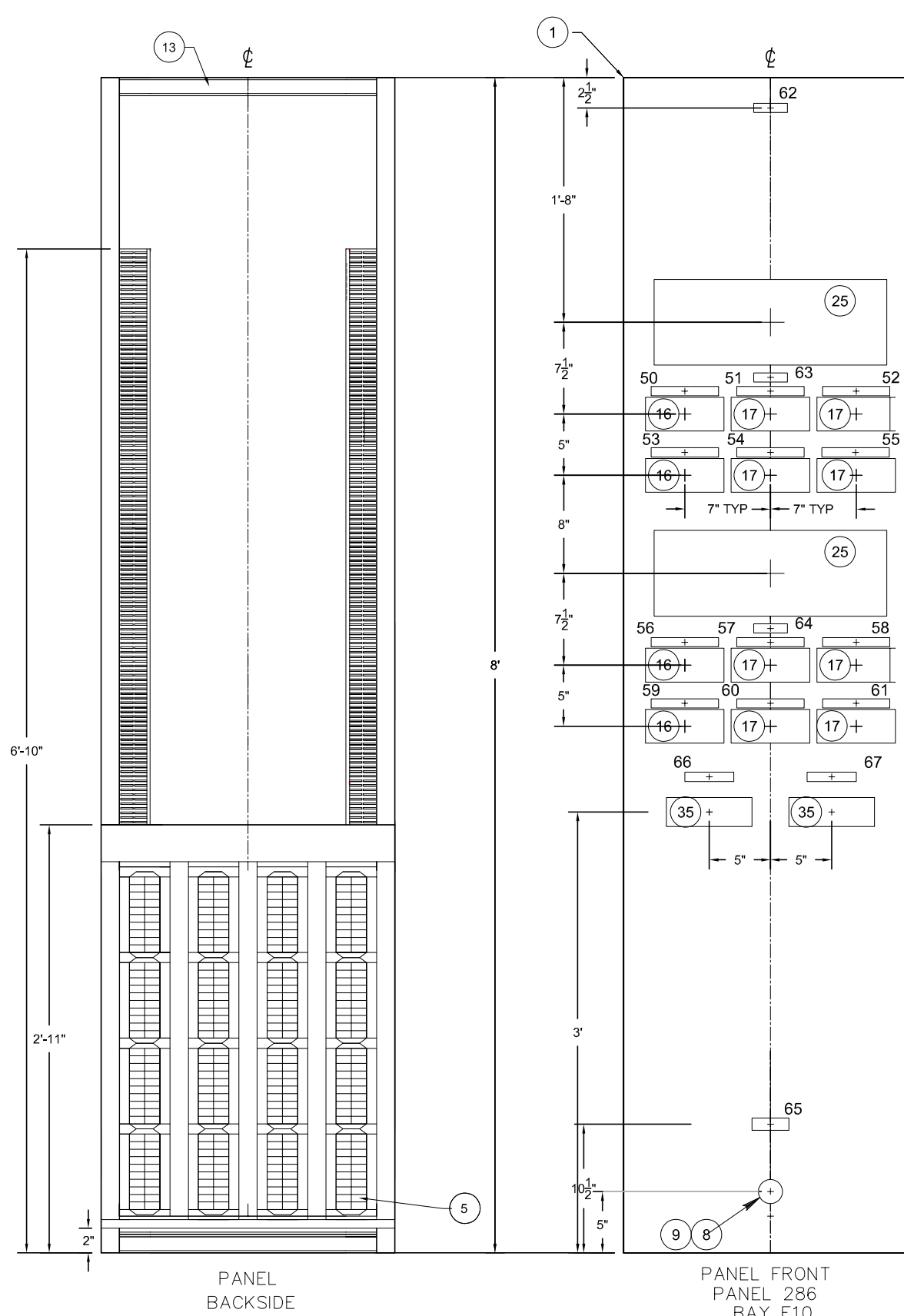
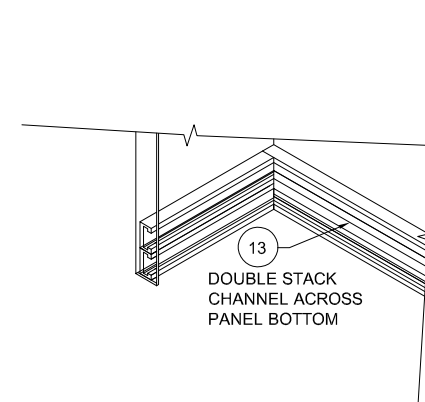
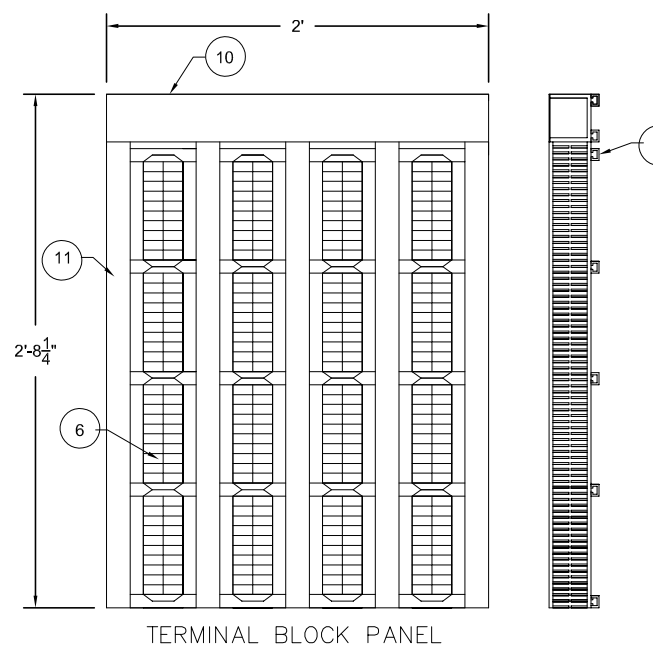
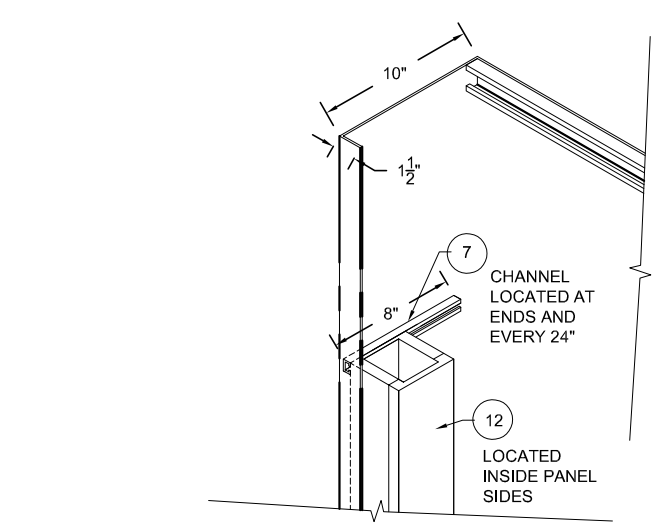
DRAWING NUMBER:  
 S1.RH.RAS.P285.SH1

IP  
 INTERMOUNTAIN  
 POWER PROJECT

DRAWN BY: TBS  
 DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
 LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.





PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	SMB
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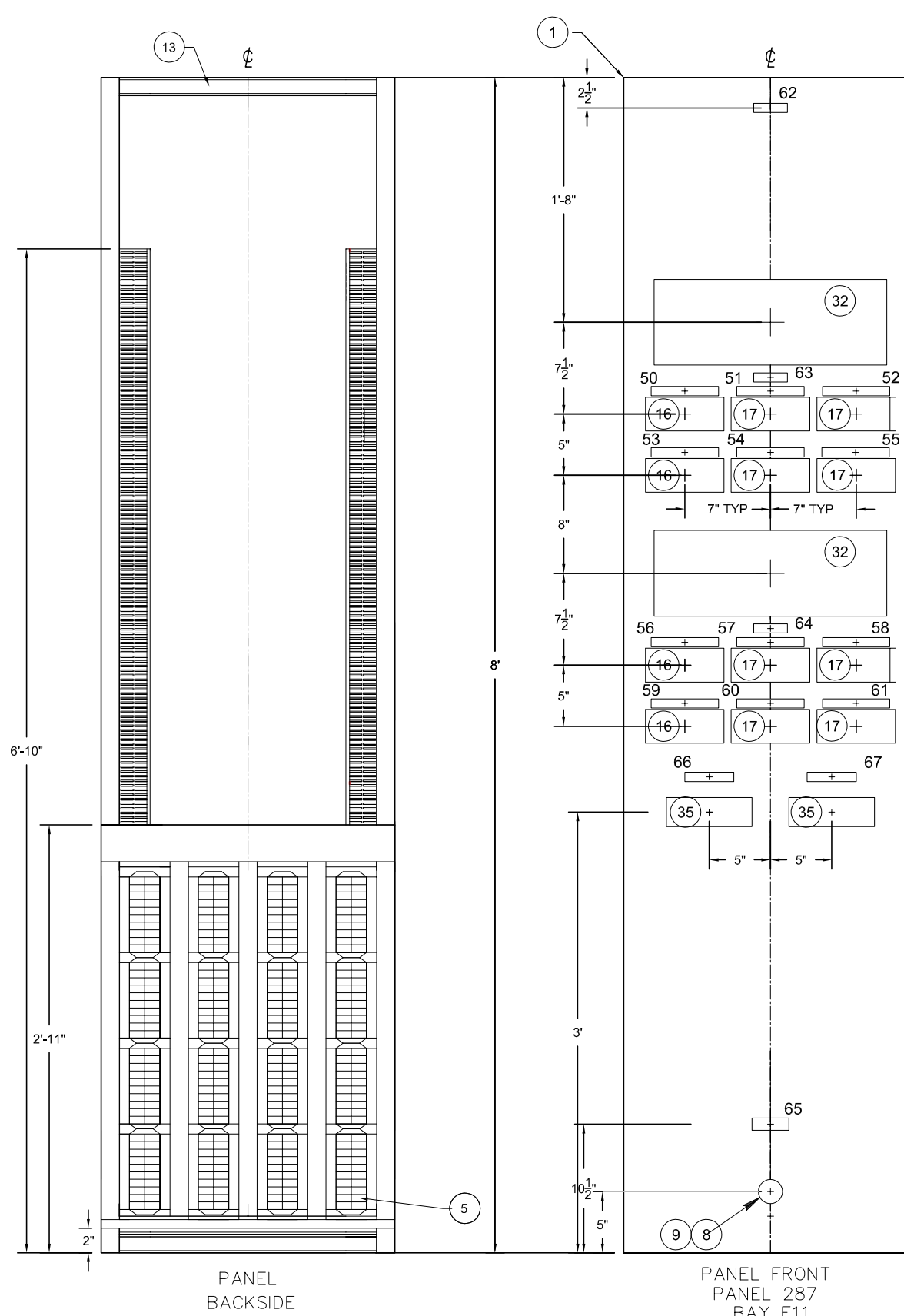
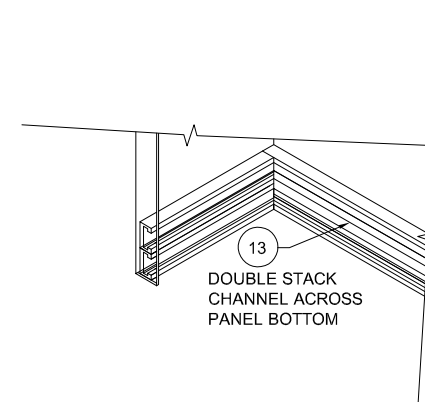
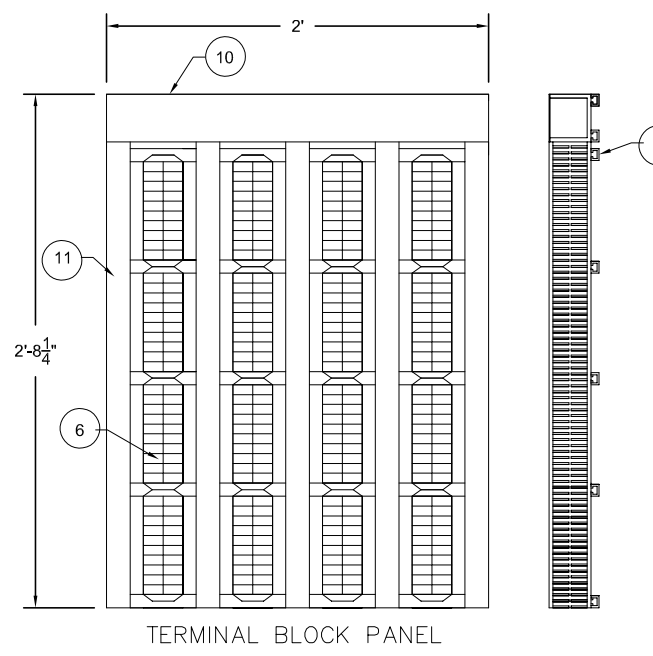
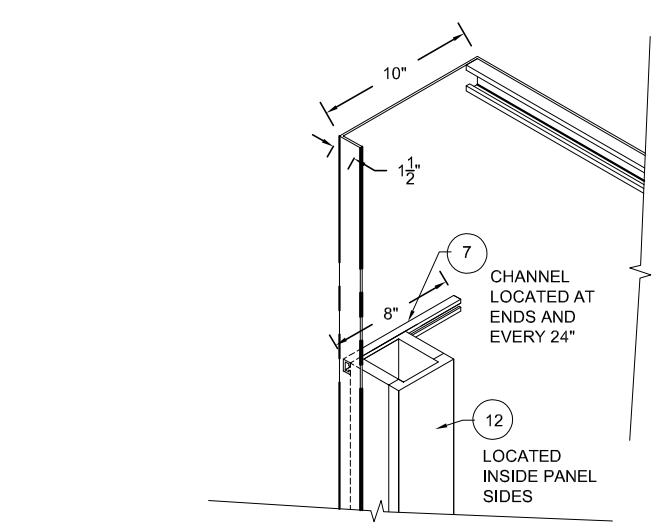
DRAWING TITLE:  
**RAS PANEL 286  
 BANK-L AND SYNCON A  
 LAYOUT**

DRAWING NUMBER:  
 S1.RH.RAS.P286.SH1

IPPP  
 INTERMOUNTAIN  
 POWER PROJECT

DRAWN BY: TBS  
 DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
 LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK
3	PLATE, AL, 5" X 4" X 1/8 THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8 THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-089S
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-066S
18	
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20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTRX
21	MODEM, TELNETICS-RAYMAR DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	9-21-23						

DRAWING TITLE:  
**RAS PANEL 287  
POLE 1 AND FILTER BANK #1  
LAYOUT**

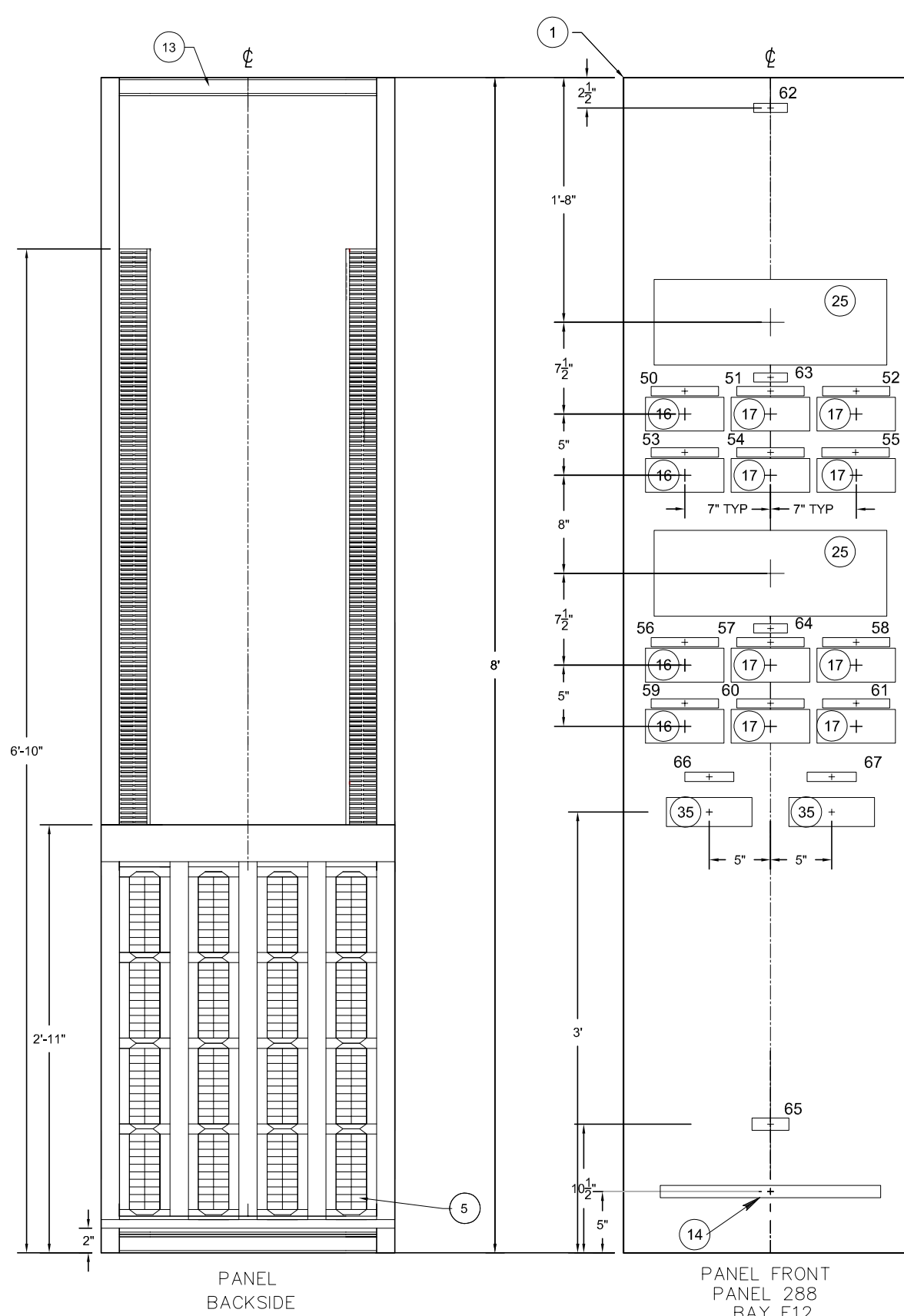
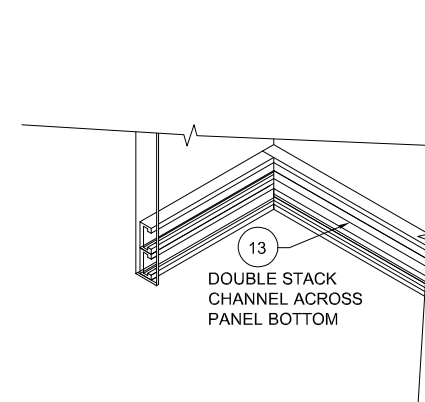
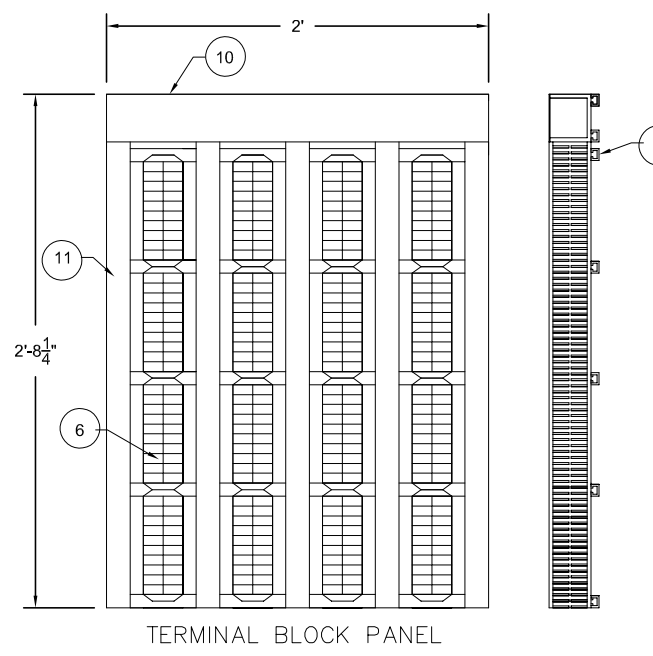
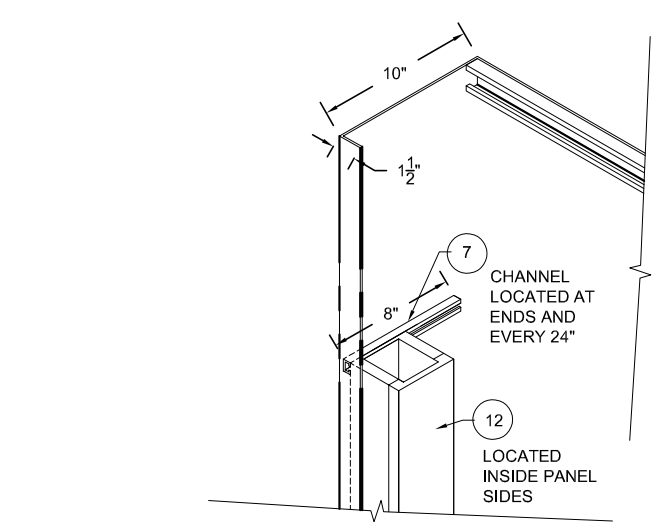
DRAWING NUMBER:  
S1.RH.RAS.P287.SH1

IPM  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGE1BM1XXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FB1C30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	SMB
0	9-21-23	ISSUED FOR APPROVAL				

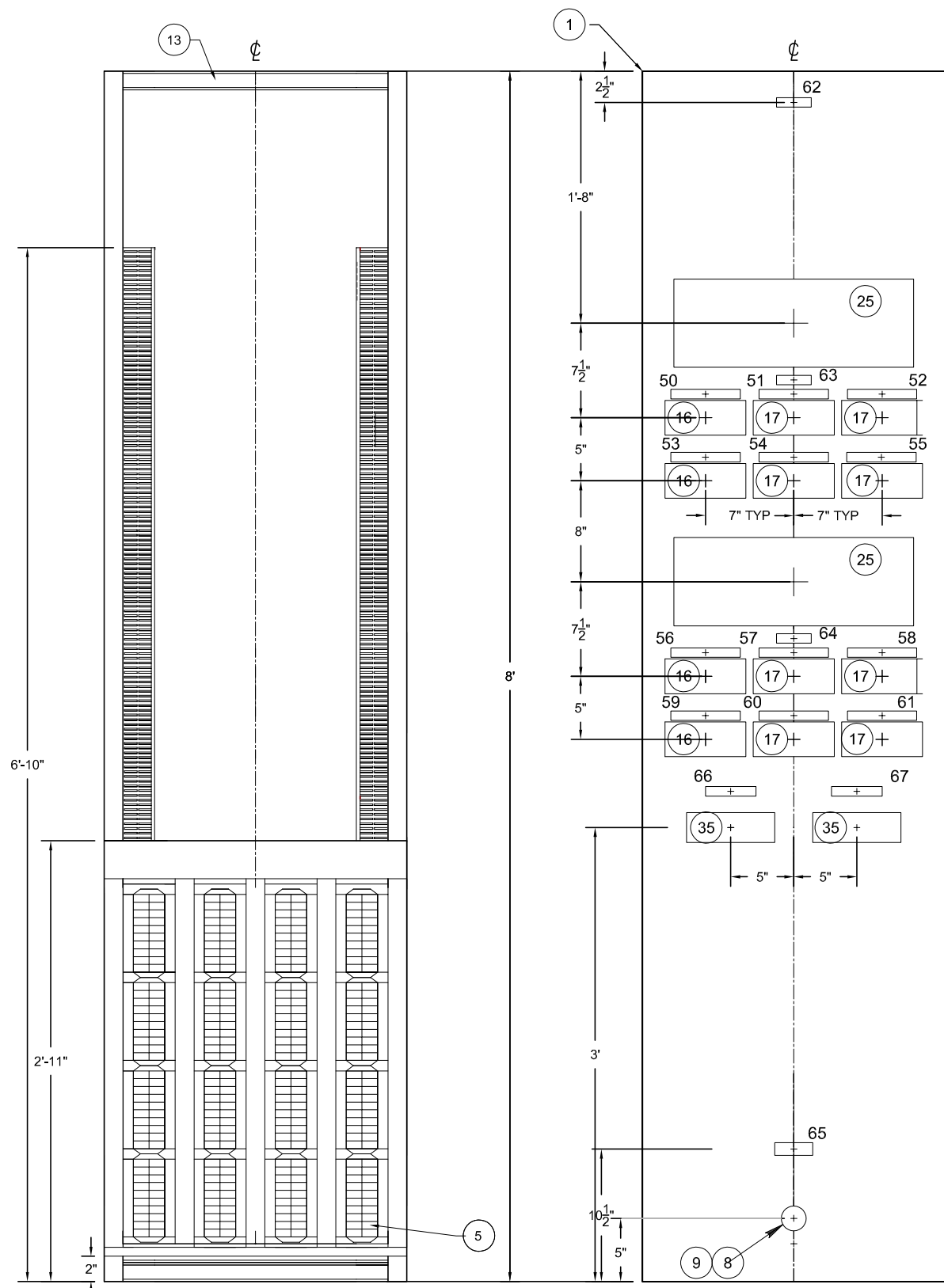
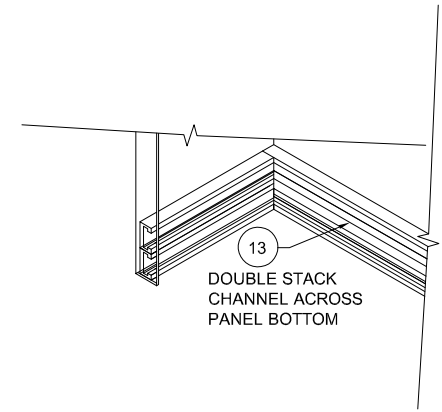
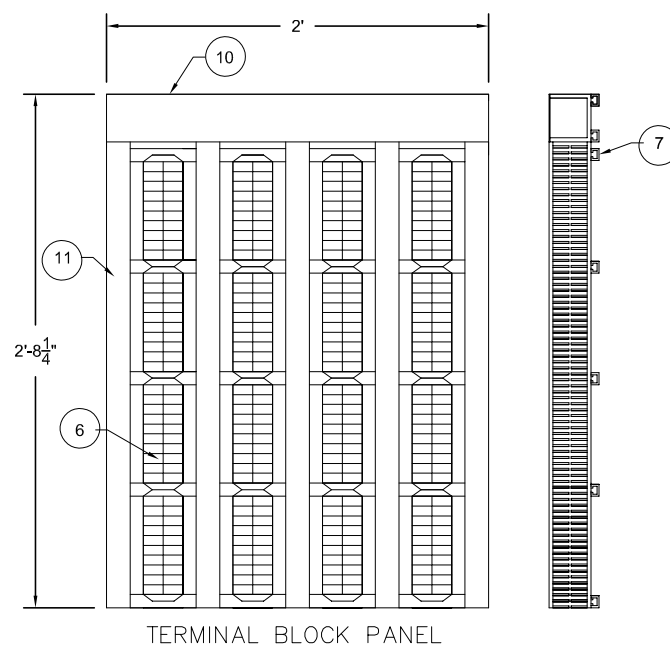
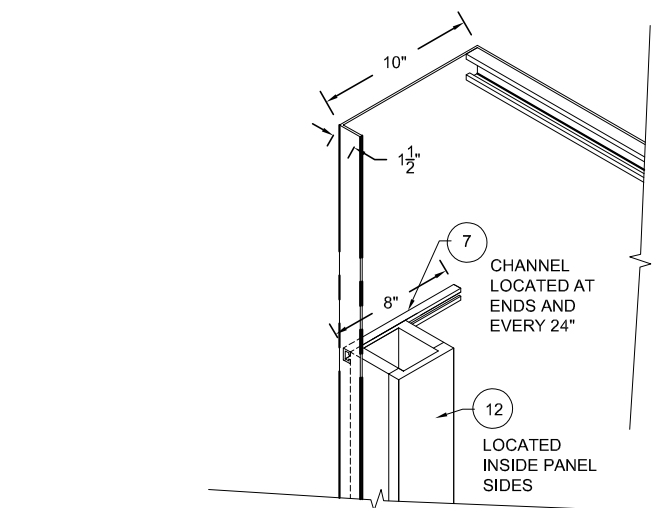
DRAWING TITLE:  
**RAS PANEL 288  
 MILFORD L1 AND IPP-MONA L1  
 LAYOUT**

DRAWING NUMBER:  
 S1.RH.RAS.P288.SH1

IPP  
 INTERMOUNTAIN  
 POWER PROJECT

DRAWN BY: TBS  
 DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
 LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" x 24" x 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMARD DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT430VPR2X08000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA11J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-UD-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UD-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	SMB
0	9-21-23	ISSUED FOR APPROVAL				

DRAWING TITLE:  
**RAS PANEL 289  
IPP-MONA L2 AND FILTER BANK #4  
LAYOUT**

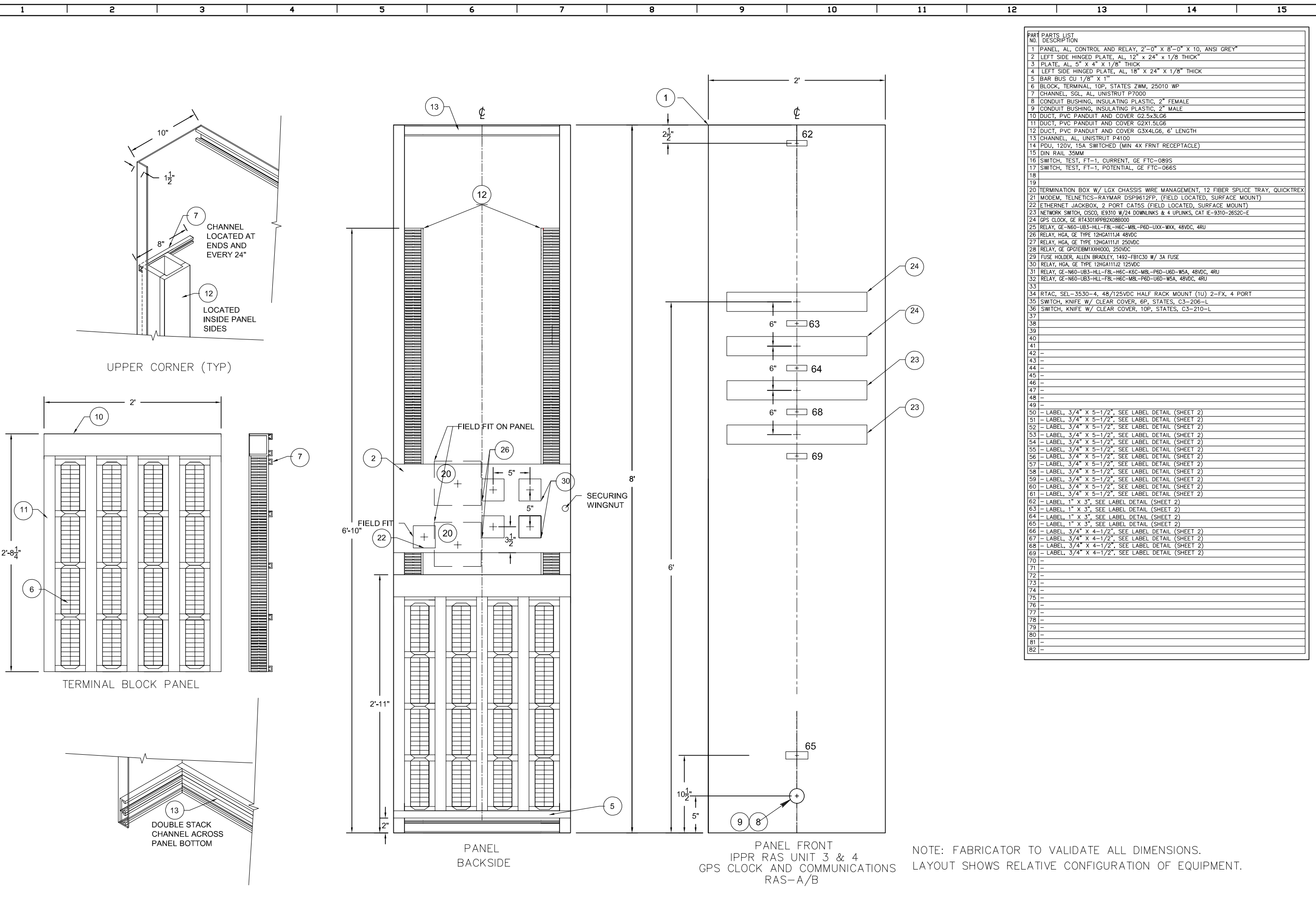
DRAWING NUMBER:  
S1.RH.RAS.P289.SH1

IPP  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

REV. 0

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.



PART NO.	DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY"
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK"
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 18" X 24" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6" LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
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20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMAR DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-26S2C-E
24	GPS CLOCK, GE RT4301PBP2X088000
25	RELAY, GE-N60-UB3-HLL-F8L-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HG1114 48VDC
27	RELAY, HGA, GE TYPE 12HG111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HG111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-F8L-H6C-K6C-M8L-P6D-U6D-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-F8L-H6C-M8L-P6D-U6D-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
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DGN	CHK	APP	SMB	NO.	DATE	DESCRIPTION OF REVISIONS	ISSUED FOR APPROVAL
				0	9-21-23		

DRAWING TITLE:  
**RAS PANEL U3&U4  
GPS CLOCK AND ETHERNET SWITCH  
LAYOUT**

DRAWING NUMBER:  
U3.GER.IPPR.RAS.COM.SH1

**IPP**  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 9-21-2023

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.

PANEL FRONT  
IPPR RAS UNIT 3 & 4  
GPS CLOCK AND COMMUNICATIONS  
RAS-A/B

PANEL  
BACKSIDE

TERMINAL BLOCK PANEL

UPPER CORNER (TYP)

DOUBLE STACK  
CHANNEL ACROSS  
PANEL BOTTOM

CHANNEL  
LOCATED AT  
ENDS AND  
EVERY 24"

LOCATED  
INSIDE PANEL  
SIDES

FIELD FIT ON PANEL

FIELD FIT

SECURING  
WINGNUT

DRAWING KEY

U3.CER.IPPR.RAS.LAYOUT IPPR RAS UNIT 3 & 4 PANEL LAYOUT

U3: INTERMOUNTAIN GENERATING STATION UNIT 3

CER: CONTROL EQUIPMENT ROOM

IPPR: IPP RENEWED

RAS: REMEDIAL ACTION SCHEME

COM: COMMUNICATIONS PANEL

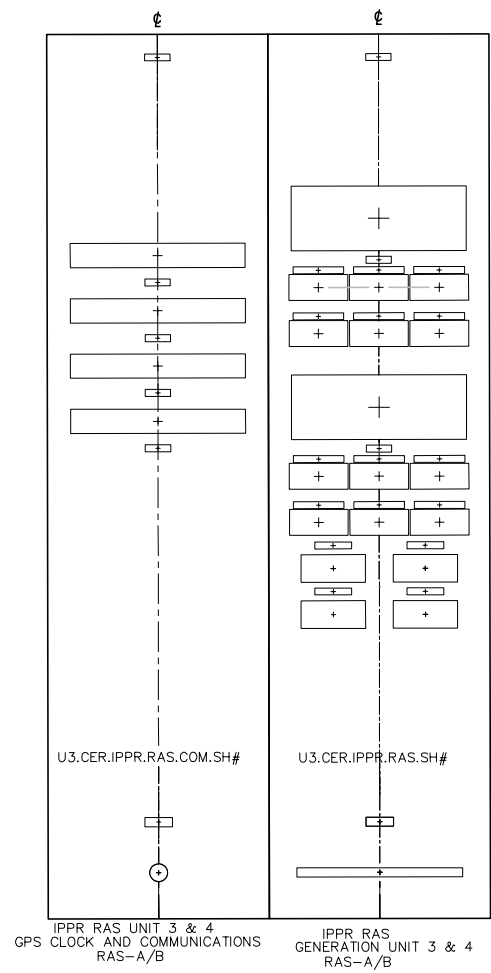
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DRAWING SHEETS

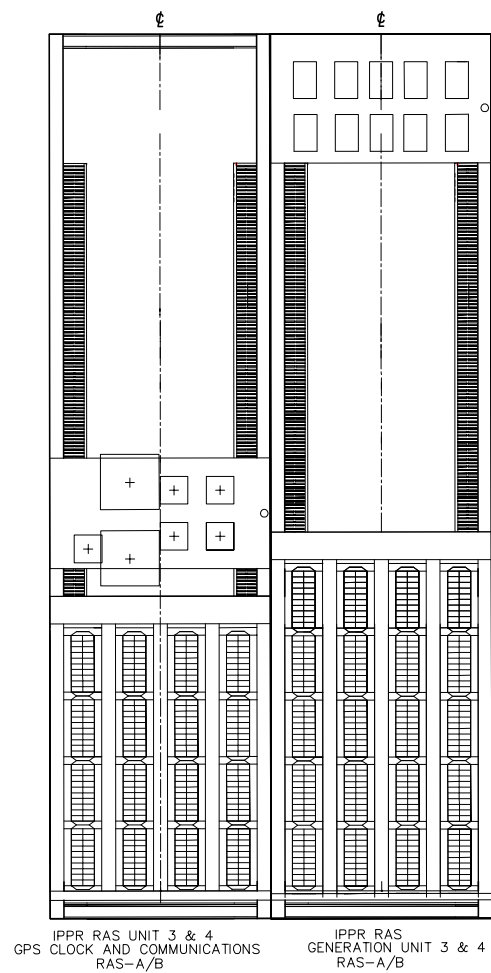
SH1 PANEL PHYSICAL LAYOUT

SH2 PANEL NAMEPLATE DATA


SH3 PANEL WIRING DIAGRAM

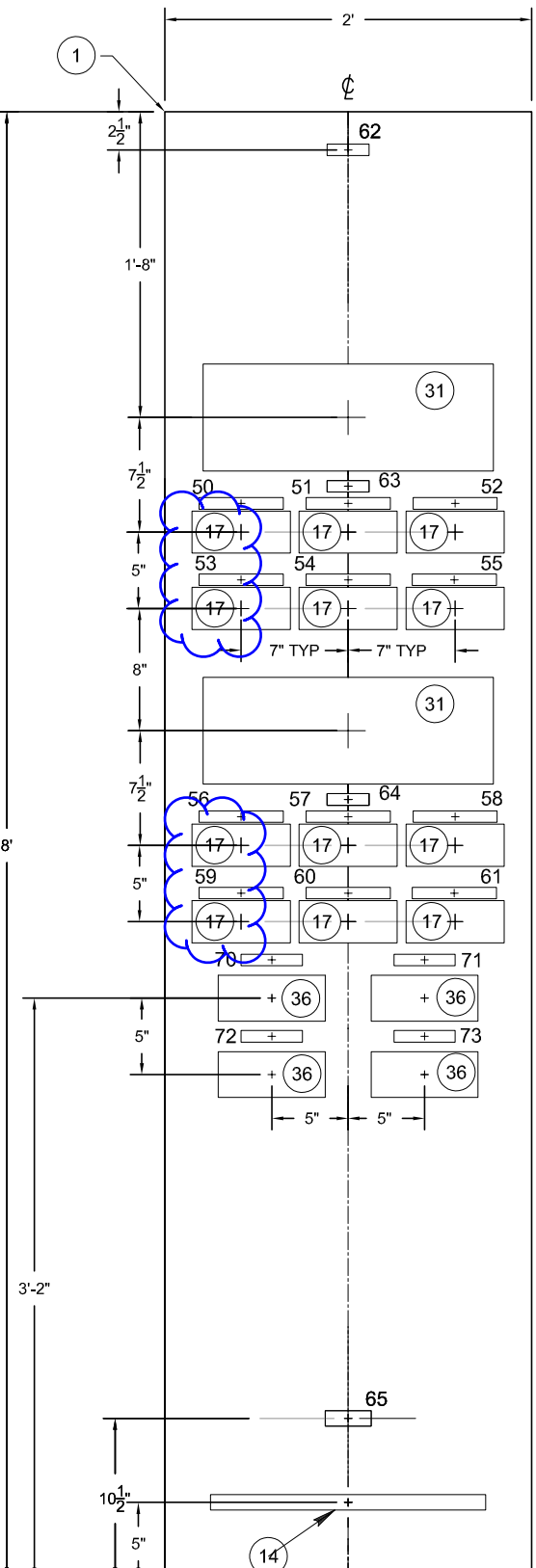
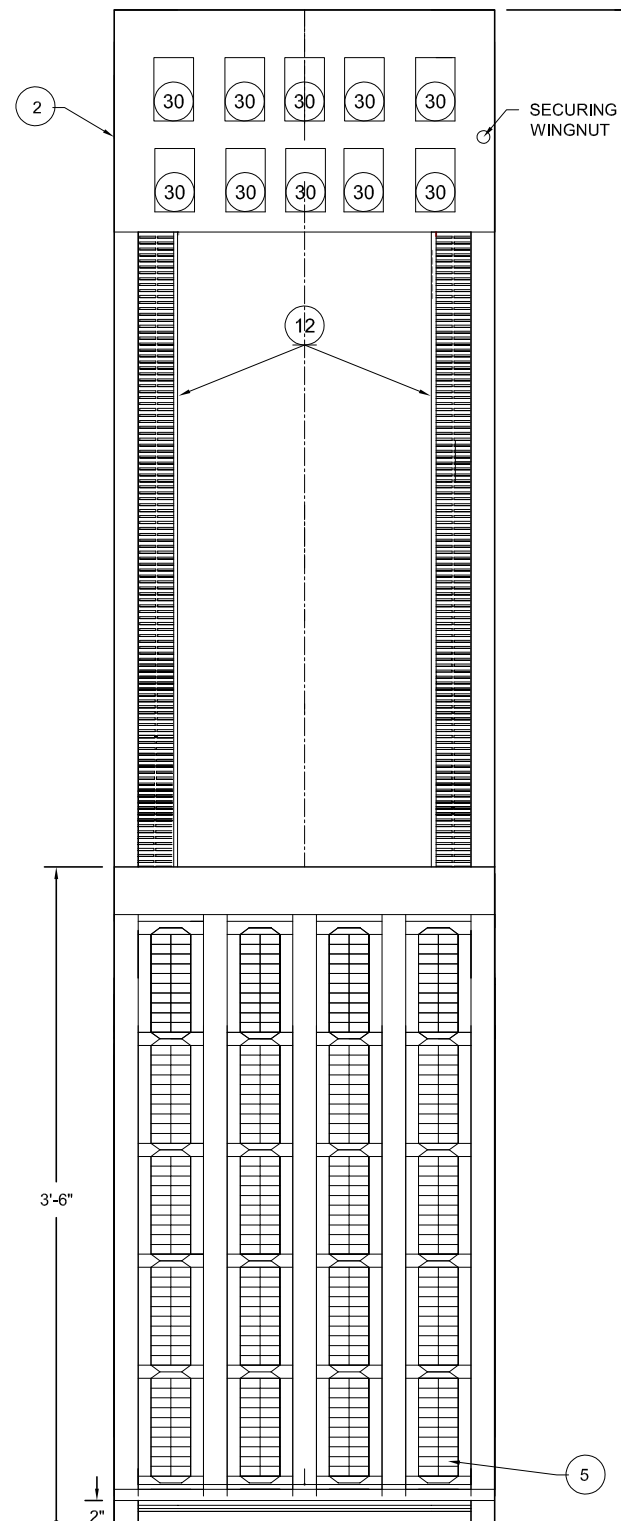
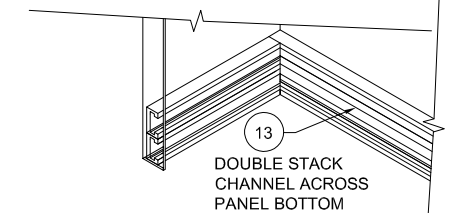
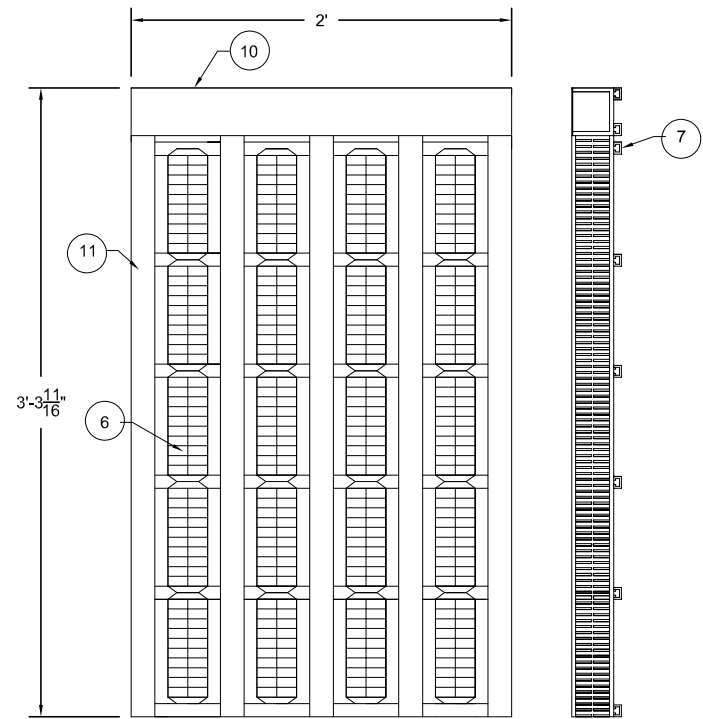
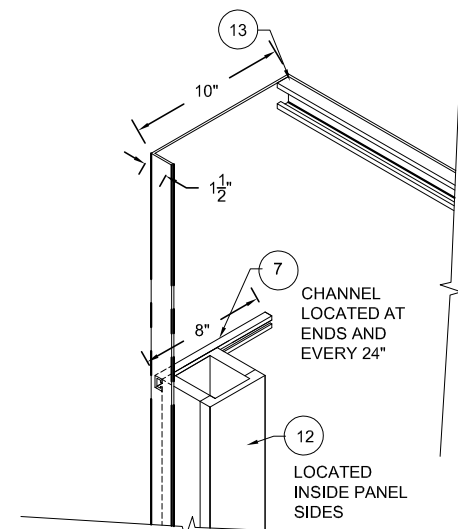


FRONT



BACK

 <p>IPPR INTERMOUNTAIN POWER PROJECT</p>	DRAWING NUMBER:	DRAWING TITLE:	NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP
	U3.CER.IPPR.RAS.LAYOUT	IPPR RENEWED U3 & U4 RAS REDIAL ACTION SCHEME PANEL LAYOUT UNIT 3 CONTROL EQUIPMENT ROOM	0	9-21-23	ISSUED FOR APPROVAL	TBS	TBS	SMB
DATE: 9-21-2023								



PART NO.	PARTS LIST DESCRIPTION
1	PANEL, AL, CONTROL AND RELAY, 2'-0" X 8'-0" X 10, ANSI GREY*
2	LEFT SIDE HINGED PLATE, AL, 12" X 24" X 1/8 THICK*
3	PLATE, AL, 5" X 4" X 1/8" THICK
4	LEFT SIDE HINGED PLATE, AL, 24" X 18" X 1/8" THICK
5	BAR BUS CU 1/8" X 1"
6	BLOCK, TERMINAL, 10P, STATES ZWM, 25010 WP
7	CHANNEL, SGL, AL, UNISTRUT P7000
8	CONDUIT BUSHING, INSULATING PLASTIC, 2" FEMALE
9	CONDUIT BUSHING, INSULATING PLASTIC, 2" MALE
10	DUCT, PVC PANDUIT AND COVER G2.5X3LG6
11	DUCT, PVC PANDUIT AND COVER G2X1.5LG6
12	DUCT, PVC PANDUIT AND COVER G3X4LG6, 6' LENGTH
13	CHANNEL, AL, UNISTRUT P4100
14	PDU, 120V, 15A SWITCHED (MIN 4X FRNT RECEPTACLE)
15	DIN RAIL 35MM
16	SWITCH, TEST, FT-1, CURRENT, GE FTC-0895
17	SWITCH, TEST, FT-1, POTENTIAL, GE FTC-0665
18	
19	
20	TERMINATION BOX W/ LGX CHASSIS WIRE MANAGEMENT, 12 FIBER SPLICE TRAY, QUICKTREX
21	MODEM, TELNETICS-RAYMAR DSP9612FP, (FIELD LOCATED, SURFACE MOUNT)
22	ETHERNET JACKBOX, 2 PORT CAT5S (FIELD LOCATED, SURFACE MOUNT)
23	NETWORK SWITCH, CISCO, IE9310 W/24 DOWNLINKS & 4 UPLINKS, CAT IE-9310-2652C-E
24	GPS CLOCK, GE RT4301XPB2X088000
25	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-UXX-WXX, 48VDC, 4RU
26	RELAY, HGA, GE TYPE 12HCA1114 48VDC
27	RELAY, HGA, GE TYPE 12HCA111J1 250VDC
28	RELAY, GE GPGFEBMXXH000, 250VDC
29	FUSE HOLDER, ALLEN BRADLEY, 1492-FBIC30 W/ 3A FUSE
30	RELAY, HGA, GE TYPE 12HCA111J2 125VDC
31	RELAY, GE-N60-UB3-HLL-FBL-H6C-K6C-M8L-P6D-U6D-W5A, 48VDC, 4RU
32	RELAY, GE-N60-UB3-HLL-FBL-H6C-M8L-P6D-U6D-W5A, 48VDC, 4RU
33	
34	RTAC, SEL-3530-4, 48/125VDC HALF RACK MOUNT (1U) 2-FX, 4 PORT
35	SWITCH, KNIFE W/ CLEAR COVER, 6P, STATES, C3-206-L
36	SWITCH, KNIFE W/ CLEAR COVER, 10P, STATES, C3-210-L
37	
38	
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46	
47	
48	
49	
50	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
51	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
52	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
53	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
54	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
55	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
56	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
57	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
58	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
59	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
60	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
61	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
62	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
63	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
64	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
65	- LABEL, 1" X 3", SEE LABEL DETAIL (SHEET 2)
66	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
67	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
68	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
69	- LABEL, 3/4" X 4-1/2", SEE LABEL DETAIL (SHEET 2)
70	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
71	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
72	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
73	- LABEL, 3/4" X 5-1/2", SEE LABEL DETAIL (SHEET 2)
74	
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81	
82	

NOTE: FABRICATOR TO VALIDATE ALL DIMENSIONS.  
LAYOUT SHOWS RELATIVE CONFIGURATION OF EQUIPMENT.  
ALL EQUIPMENT ON HINGED PLATE TO BE FIELD MOUNTED

NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	ISSUED FOR APPROVAL	
						TBS	SMB
0	12-10-23						

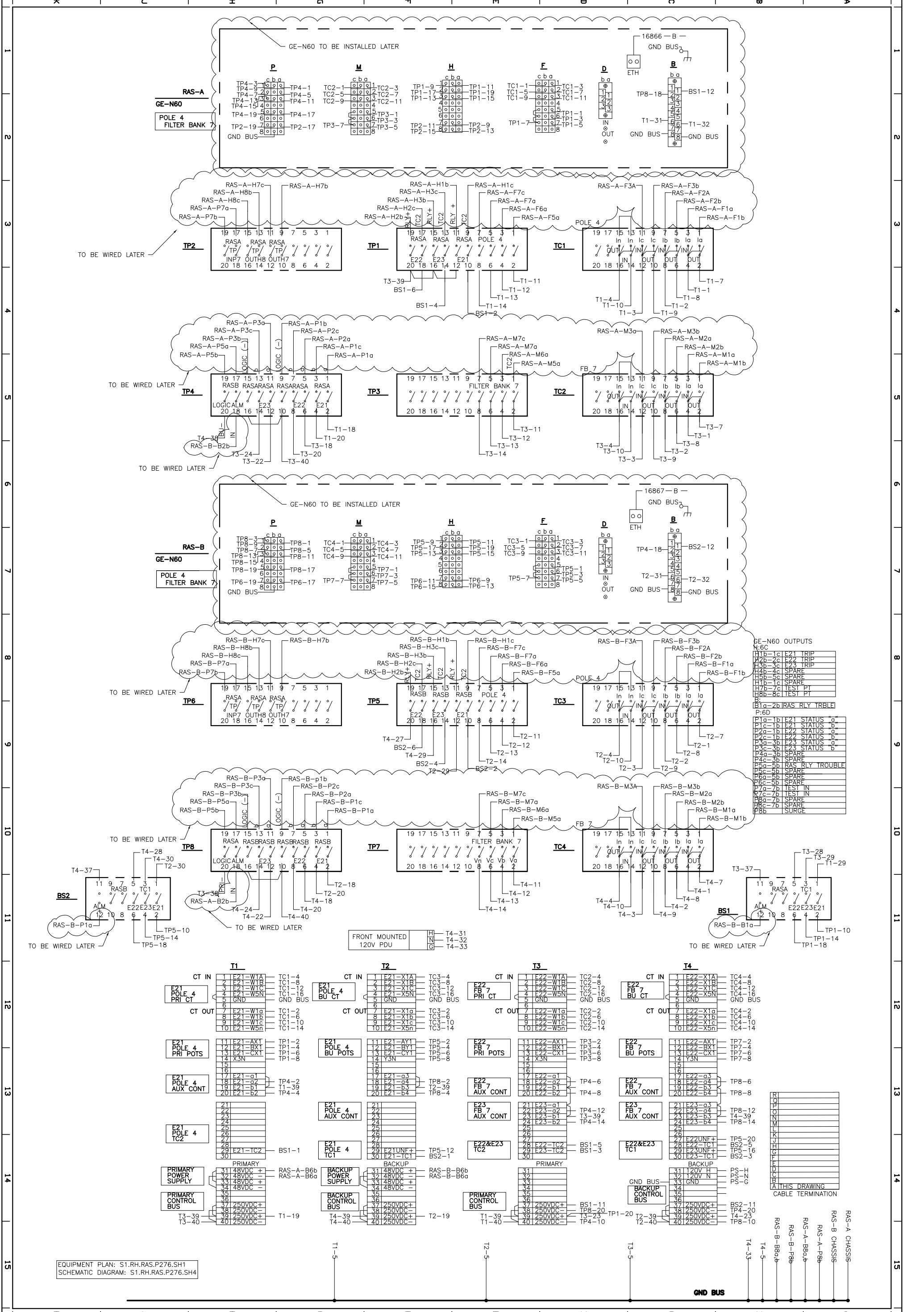
DRAWING TITLE:  
**IPP RENEWED RAS  
GENERATION UNIT 3 & UNIT 4 RAS PANEL  
LAYOUT**

DRAWING NUMBER:  
U3.CER.IPP.RAS.SH1

IPP  
INTERMOUNTAIN  
POWER PROJECT

DRAWN BY: TBS  
DATE: 12-10-2023

REV. 0



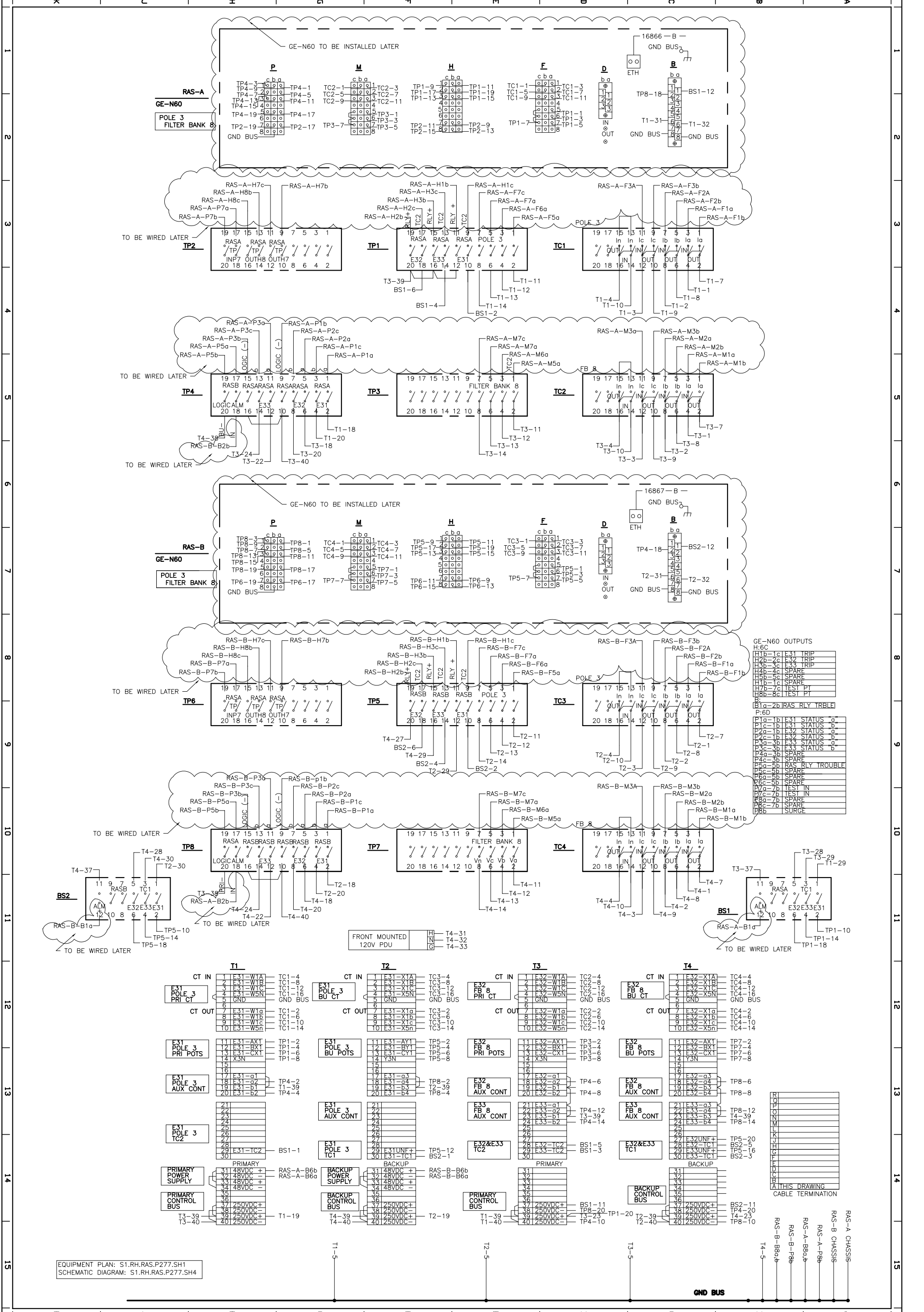
GE-N60 OUTPUTS

N16C-1c	E21 TRIP
N2b-2c	E22 TRIP
N3b-3c	E23 TRIP
N4b-4c	SPARE
N5b-5c	SPARE
N7b-7c	TEST PT
N8b-8c	TEST PT
B1a-2b	RAS RLY TRBLE
P:6D	
P1a-1b	E21 STATUS 'a'
P1c-1b	E21 STATUS 'b'
P2a-1b	E22 STATUS 'a'
P2c-1b	E22 STATUS 'b'
P3a-3b	E23 STATUS 'a'
P3c-3b	E23 STATUS 'b'
P4c-3b	SPARE
P5a-5b	RAS RLY TROUBLE
P5c-5b	SPARE
P6a-5b	SPARE
P6c-5b	SPARE
N7c-7b	TEST IN
P8a-7b	SPARE
P8c-7b	SPARE
P8b-7b	SURGE

CABLE TERMINATION

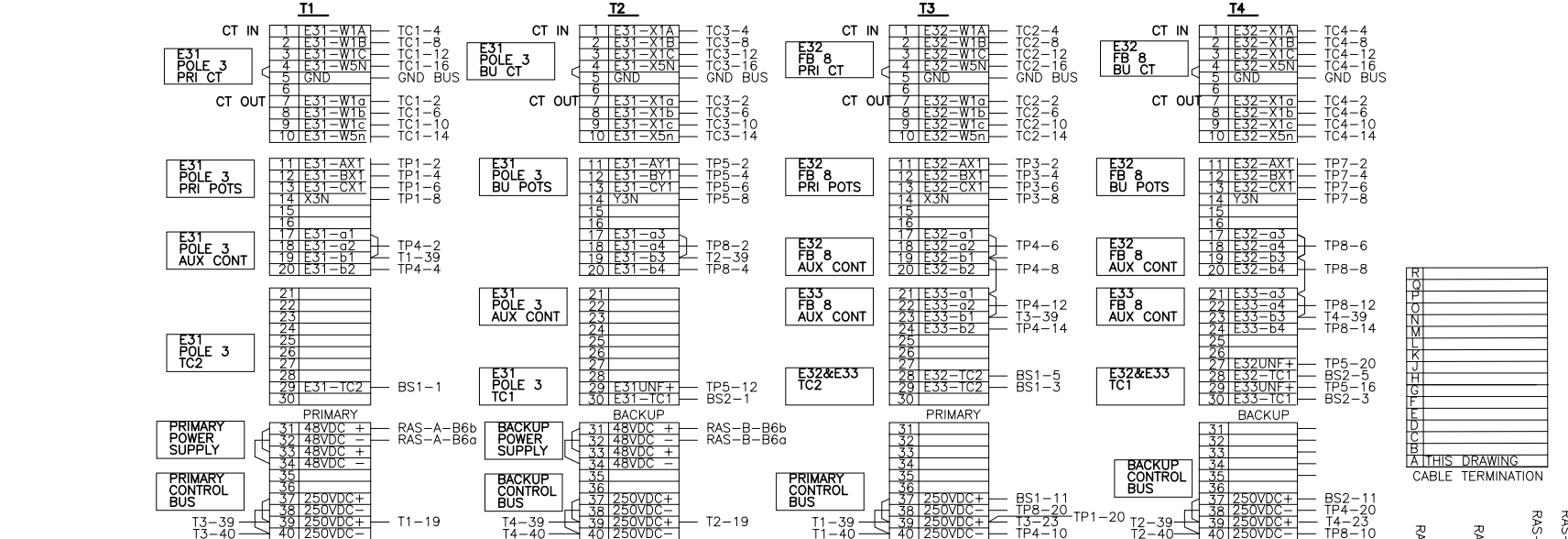
RAS-A	CHASSIS
RAS-B	CHASSIS
RAS-A-P8a	
RAS-A-P8b	
RAS-B-P8a	
RAS-B-P8b	
RAS-B-B8a	
RAS-B-B8b	
RAS-B-B8c	
RAS-B-B8d	

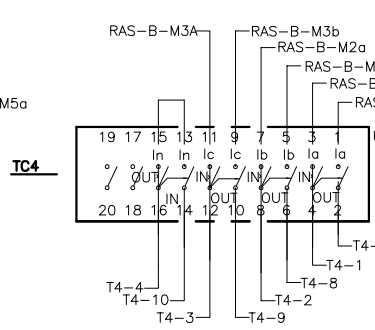
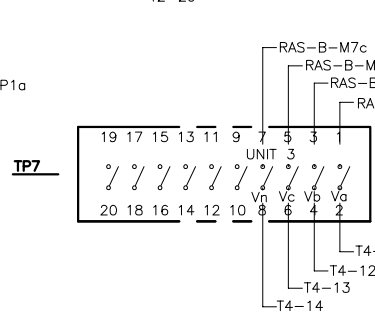
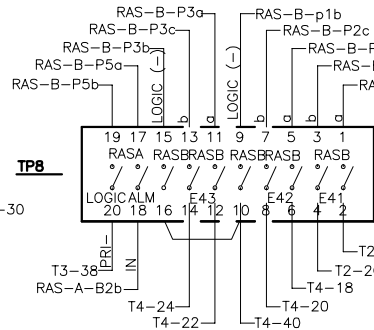
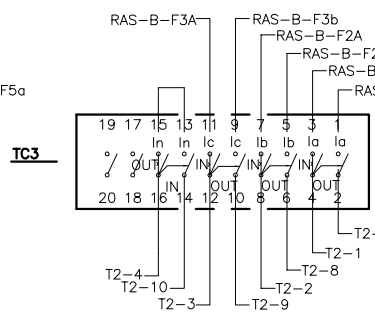
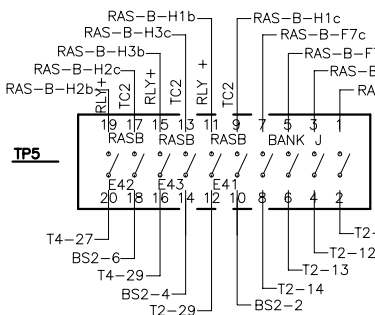
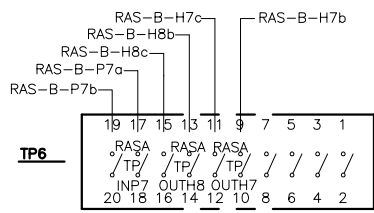
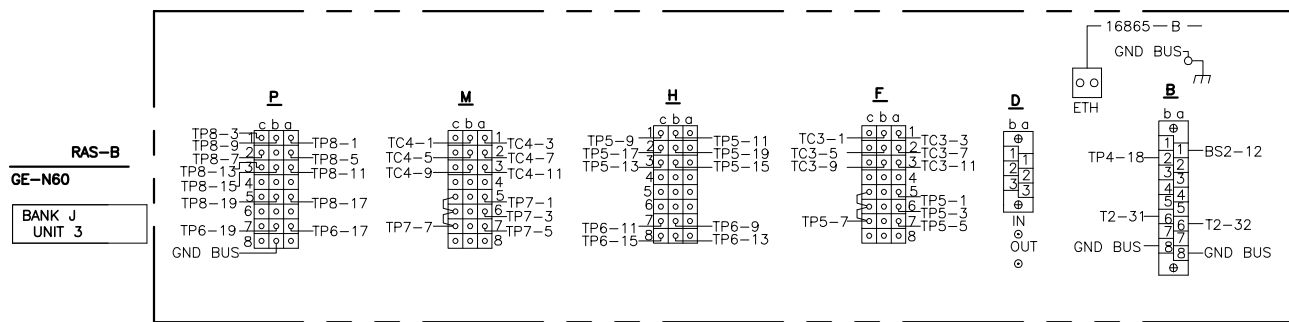
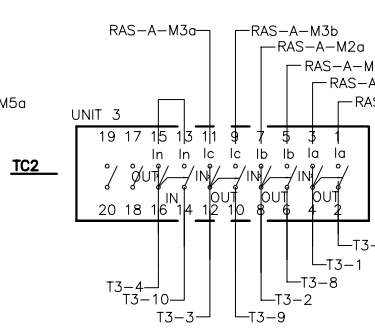
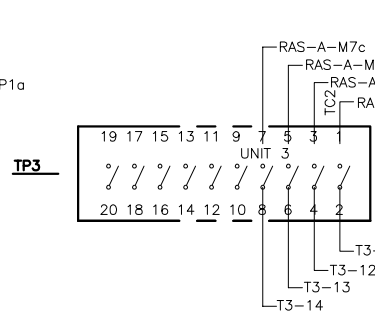
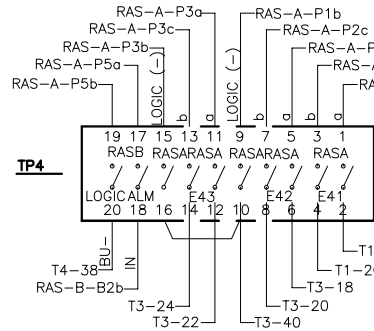
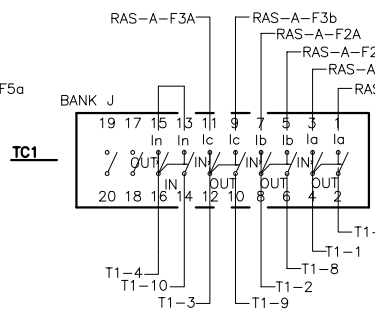
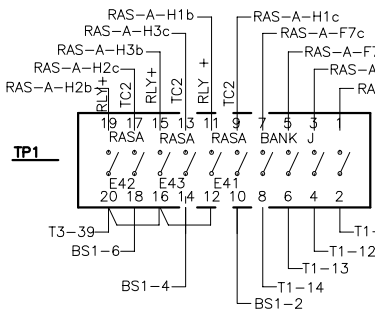
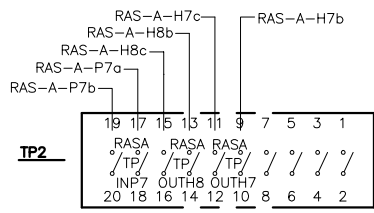
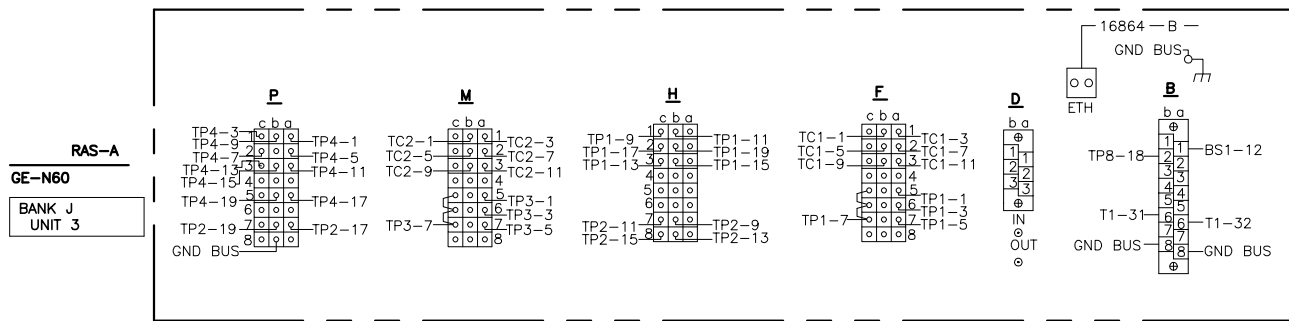




**GE-N60 OUTPUTS**

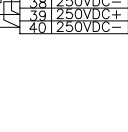
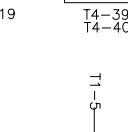
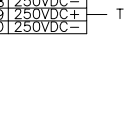
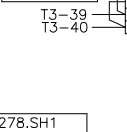
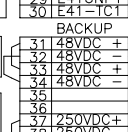
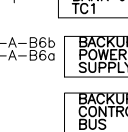
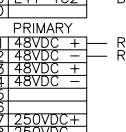
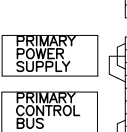
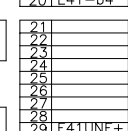
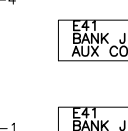
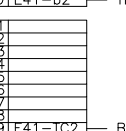
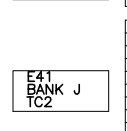
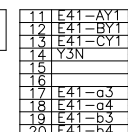
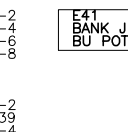
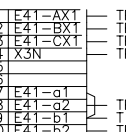
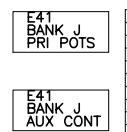
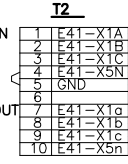
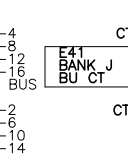
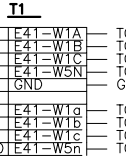
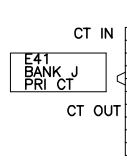
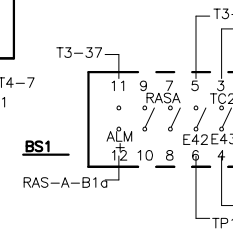
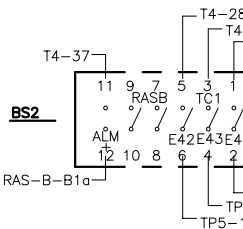
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H7c-2c	E32 TRIP
H7c-3c	E33 TRIP
H7c-4c	SPARE
H7c-5c	SPARE
H7c-6c	SPARE
H7c-7c	TEST PT
H7c-8c	TEST PT
B1a-2b	RAS RLY TRBLE
P:6d	
P1a-1b	E31 STATUS a
P1c-1b	E31 STATUS b
P2a-1b	E32 STATUS a
P2c-1b	E32 STATUS b
P3a-3b	E33 STATUS a
P3c-3b	E33 STATUS b
P4c-3b	SPARE
P5a-5b	RAS RLY TROUBLE
P5c-5b	SPARE
P6a-5b	SPARE
P6c-5b	SPARE
P7c-7b	TEST IN
P8a-7b	SPARE
P8c-7b	SPARE
P8b-7b	SURGE





**GE-N60 OUTPUTS**

H:6C	H1B-1c	E41 TRIP
H2B-2c	E42 TRIP	
H3B-3c	E43 TRIP	
H4B-4c	SPARE	
H5B-5c	SPARE	
H6B-6c	SPARE	
H7B-7c	TEST PT	
H8B-8c	TEST PT	
P:6D	B1a-2b	RAS RLY TRBLE
P:6D	P1a-1b	E41 STATUS a
P:6D	P1c-1b	E41 STATUS b
P:6D	P2a-1b	E42 STATUS a
P:6D	P2c-1b	E42 STATUS b
P:6D	P3a-3b	E43 STATUS a
P:6D	P3c-3b	E43 STATUS b
P:6D	P4a-3b	SPARE
P:6D	P4c-3b	SPARE
P:6D	P5a-5b	RAS RLY TROUBLE
P:6D	P5c-5b	SPARE
P:6D	P6a-5b	SPARE
P:6D	P6c-5b	SPARE
P:6D	P7a-7b	TEST IN
P:6D	P7c-7b	TEST IN
P:6D	P8a-7b	SPARE
P:6D	P8c-7b	SPARE
P:6D	P8b	SURGE



**CABLE TERMINATION**

RAS-A	CHASSIS
RAS-B	CHASSIS
RAS-A-B8a	
RAS-A-B8b	
RAS-A-B8c	
RAS-A-B8d	
RAS-B-B8a	
RAS-B-B8b	
RAS-B-B8c	
RAS-B-B8d	

EQUIPMENT PLAN: S1.RH.RAS.P278.SH1  
SCHEMATIC DIAGRAM: S1.RH.RAS.P278.SH4

GND BUS

DRAWING NUMBER:

U1.RH.RAS.P278.SH3

DRAWING TITLE:

RAS PANEL 278  
BANK J AND GAS UNIT 3  
PANEL WIRING DIAGRAM

NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP
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DATE: 11-30-23

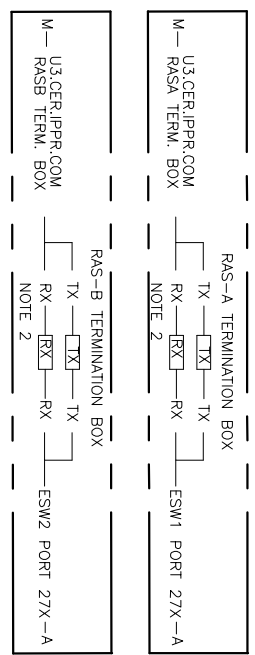
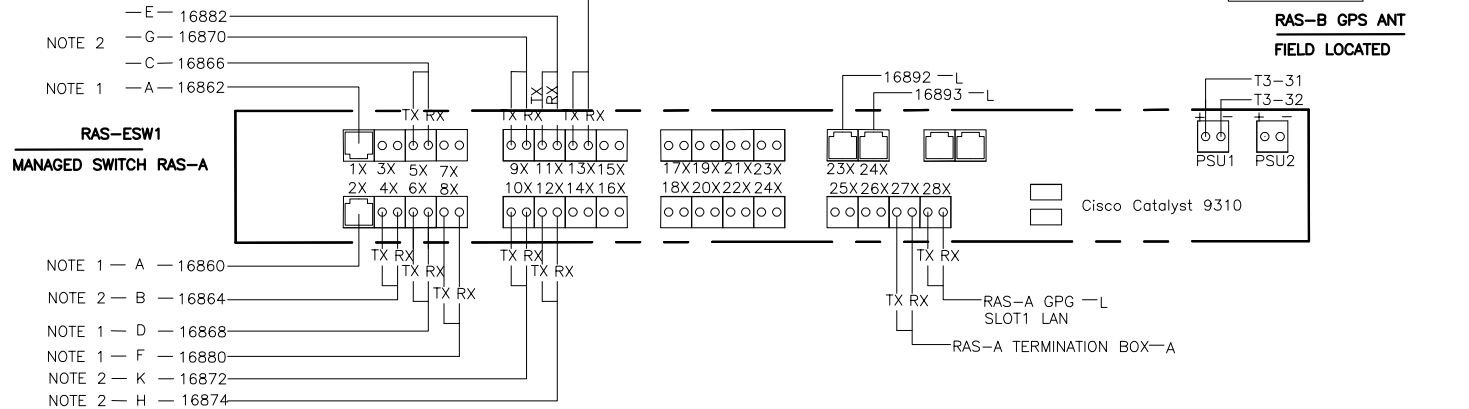
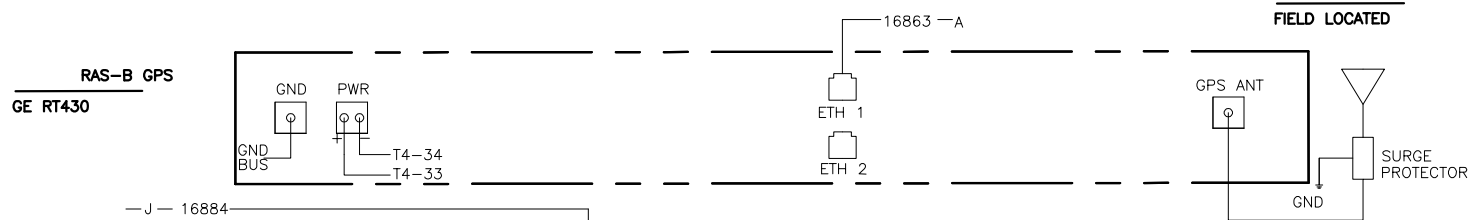
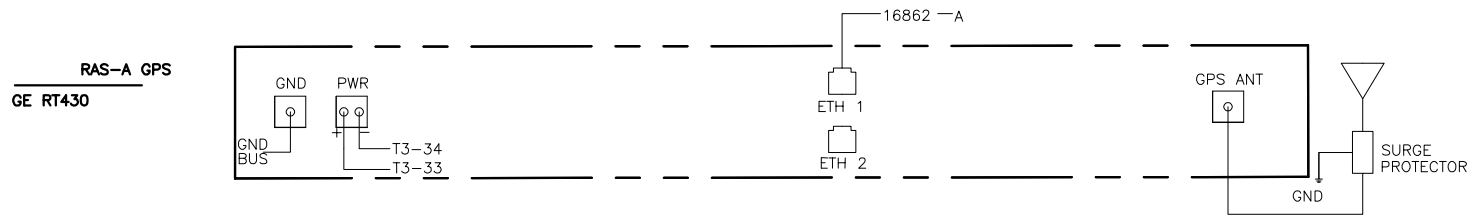
DRAWN BY: TBS

REV: 0

IPP

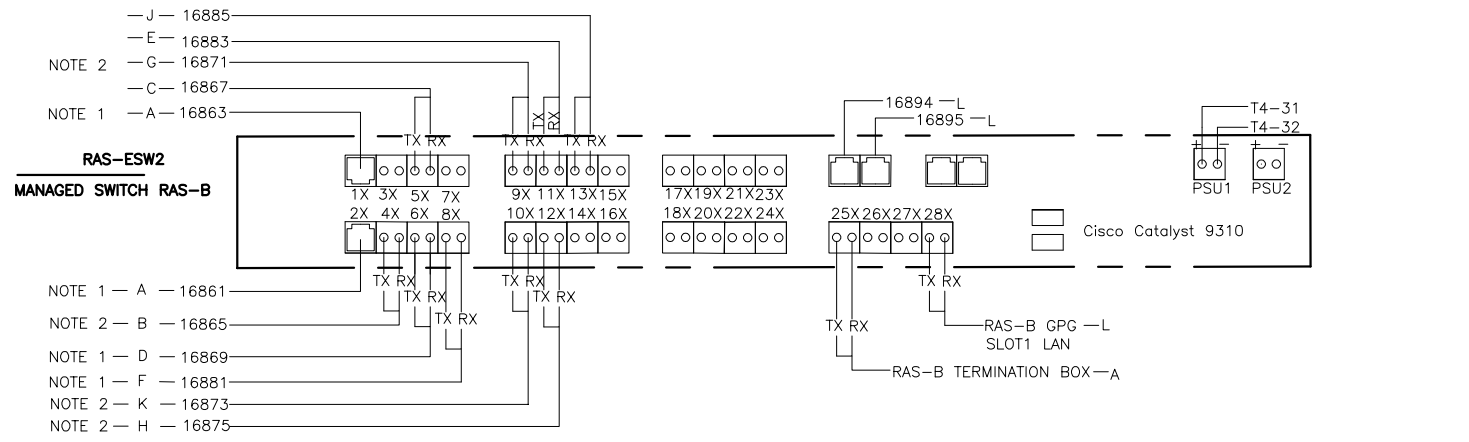
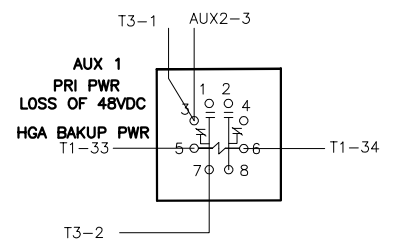
INTERMOUNTAIN POWER PROJECT





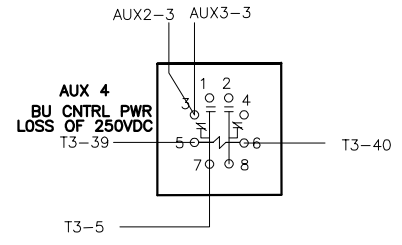
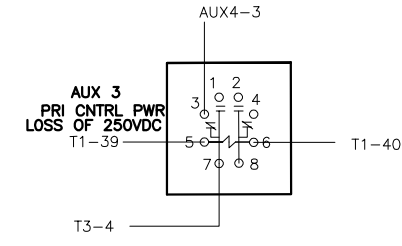
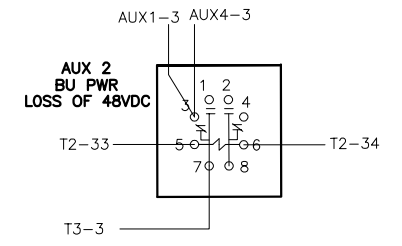
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 — E — 16882  
 — G — 16870  
 — C — 16866  
 NOTE 1 — A — 16862
- NOTE 1 — A — 16860  
 NOTE 2 — B — 16864  
 NOTE 1 — D — 16868  
 NOTE 1 — F — 16880  
 NOTE 2 — K — 16872  
 NOTE 2 — H — 16874

PORT 1: RAS-A GPS	PORT 9: BAY E9 RAS-A S1.RH.RAS.P285.SH3	PORT 17:	PORT 25:
PORT 2: RAS-A TEST PORT	PORT 10: BAY E10 RAS-A S1.RH.RAS.P286.SH3	PORT 18:	PORT 26:
PORT 3:	PORT 11: BAY E11 RAS-A S1.RH.RAS.P287.SH3	PORT 19:	PORT 27: UNIT 3&4 RAS-A ESW1 U3.CER.IPPR.RAS.COM.SH3
PORT 4: BAY E4 RAS-A S1.RH.RAS.P278.SH3	PORT 12: BAY E12 RAS-A S1.RH.RAS.P288.SH3	PORT 20:	PORT 28: RAS-A GPG CONTROLLER S1.RH.RAS.P280.SH3
PORT 5: BAY E5 RAS-A S1.RH.RAS.P279.SH3	PORT 13: BAY E13 RAS-A S1.RH.RAS.P289.SH3	PORT 21:	
PORT 6: BAY E6 RAS-A S1.RH.RAS.P282.SH3	PORT 14:	PORT 22:	
PORT 7:	PORT 15:	PORT 23:	
PORT 8: BAY E8 RAS-A S1.RH.RAS.P284.SH3	PORT 16:	PORT 24:	

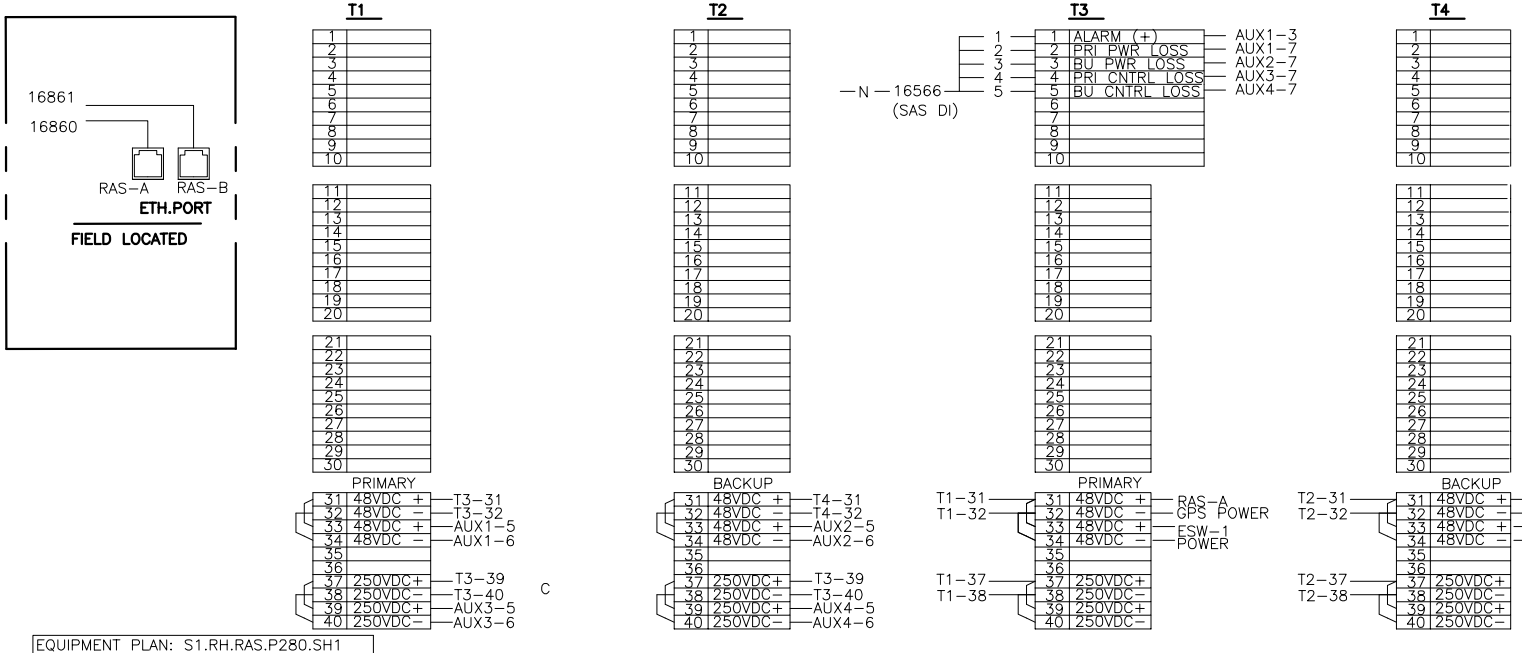


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 — E — 16883  
 NOTE 2 — G — 16871  
 — C — 16867  
 NOTE 1 — A — 16863
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 NOTE 2 — B — 16865  
 NOTE 1 — D — 16869  
 NOTE 1 — F — 16881  
 NOTE 2 — K — 16873  
 NOTE 2 — H — 16875

PORT 1: RAS-B GPS	PORT 9: BAY E9 RAS-B S1.RH.RAS.P285.SH3	PORT 17:	PORT 25:
PORT 2: RAS-B TEST PORT	PORT 10: BAY E10 RAS-B S1.RH.RAS.P286.SH3	PORT 18:	PORT 26:
PORT 3:	PORT 11: BAY E11 RAS-B S1.RH.RAS.P287.SH3	PORT 19:	PORT 27: UNIT 3&4 RAS-B ESW2 U3.CER.IPPR.RAS.COM.SH3
PORT 4: BAY E4 RAS-B S1.RH.RAS.P278.SH3	PORT 12: BAY E12 RAS-B S1.RH.RAS.P288.SH3	PORT 20:	PORT 28: RAS-B GPG CONTROLLER S1.RH.RAS.P280.SH3
PORT 5: BAY E5 RAS-B S1.RH.RAS.P279.SH3	PORT 13: BAY E13 RAS-B S1.RH.RAS.P289.SH3	PORT 21:	
PORT 6: BAY E6 RAS-B S1.RH.RAS.P282.SH3	PORT 14:	PORT 22:	
PORT 7:	PORT 15:	PORT 23:	
PORT 8: BAY E8 RAS-B S1.RH.RAS.P284.SH3	PORT 16:	PORT 24:	

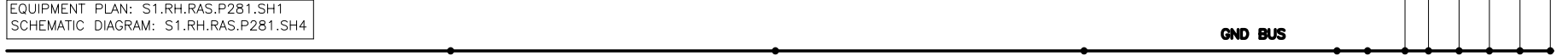
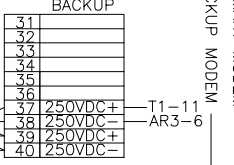
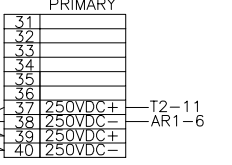
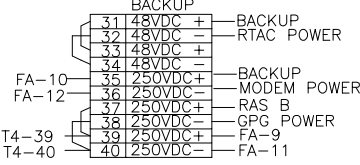
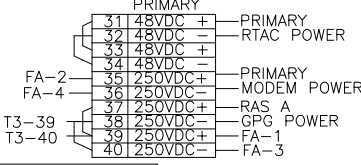
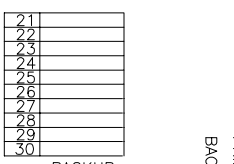
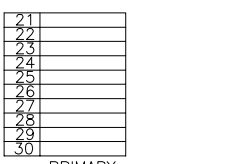
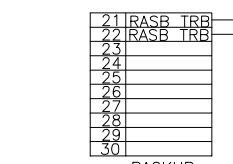
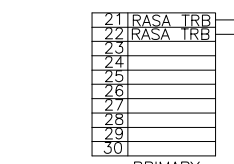
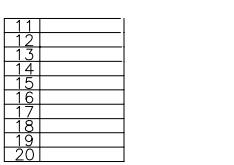
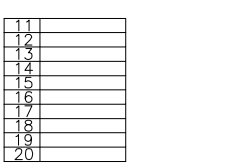
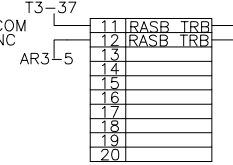
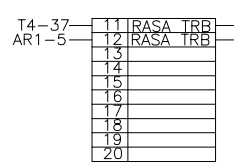
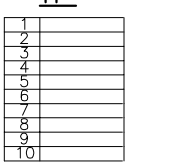
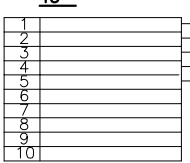
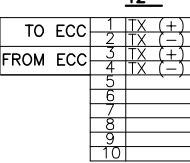
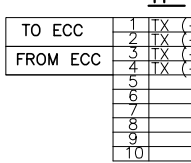
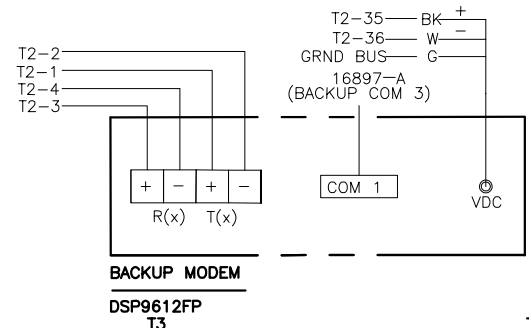
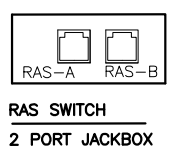
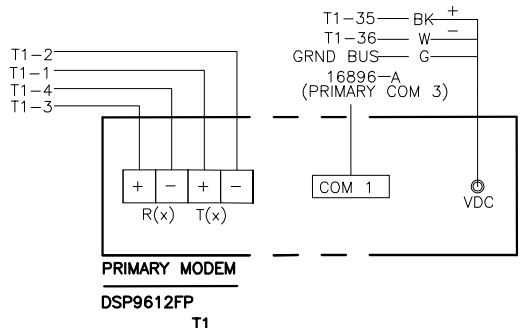
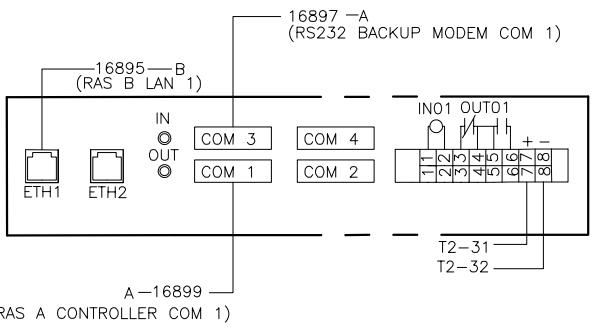
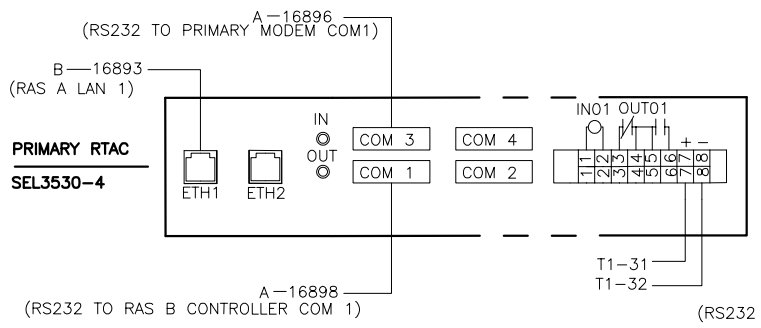
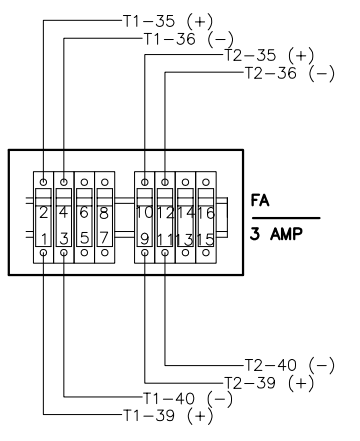
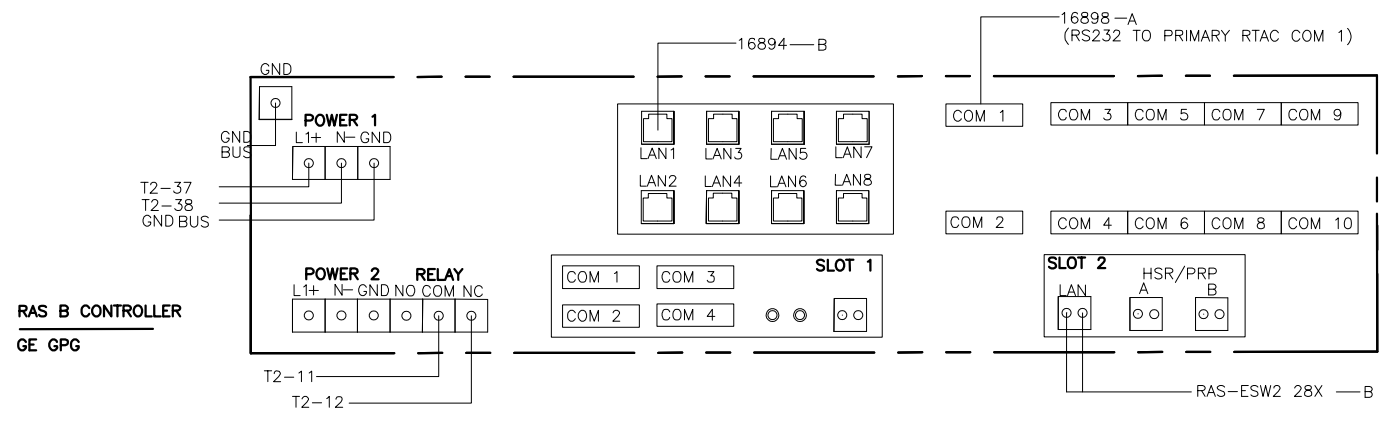
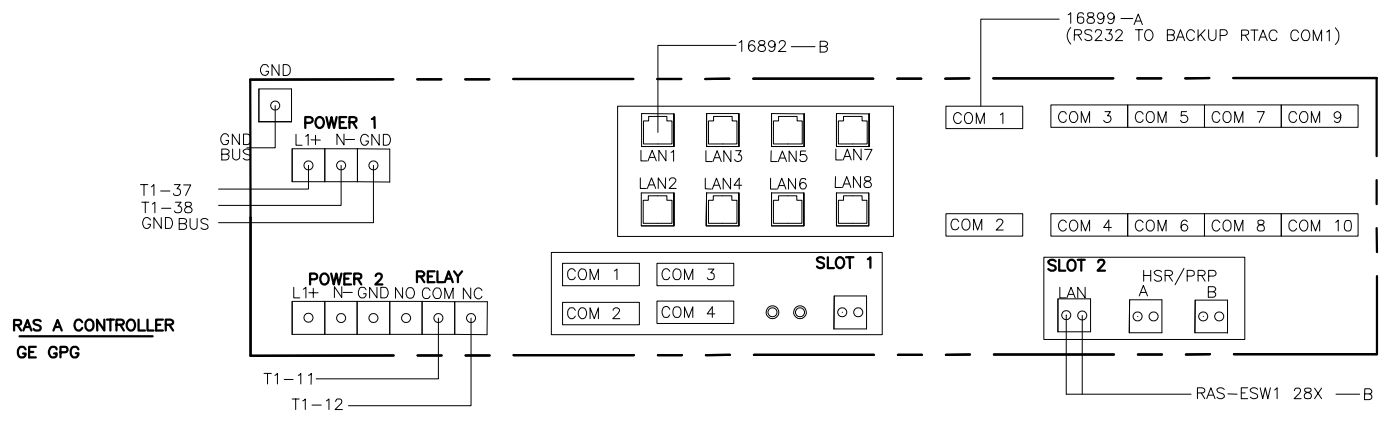
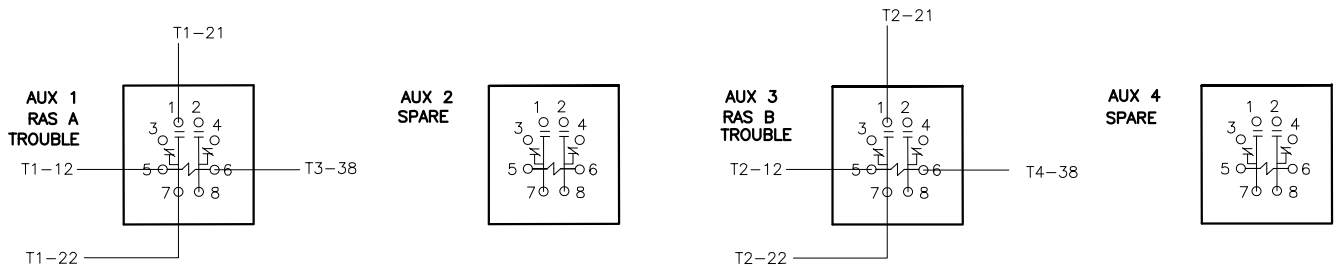


NOTE 1: ETHERNET COPPER, RJ45  
 NOTE 2: FIBER OPTIC CABLE, GLC-FE-100FX-LC  
 NOTE 3: FIELD LOCATE PHOENIX BLOCKS WITHIN COMMUNICATION CABINET



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

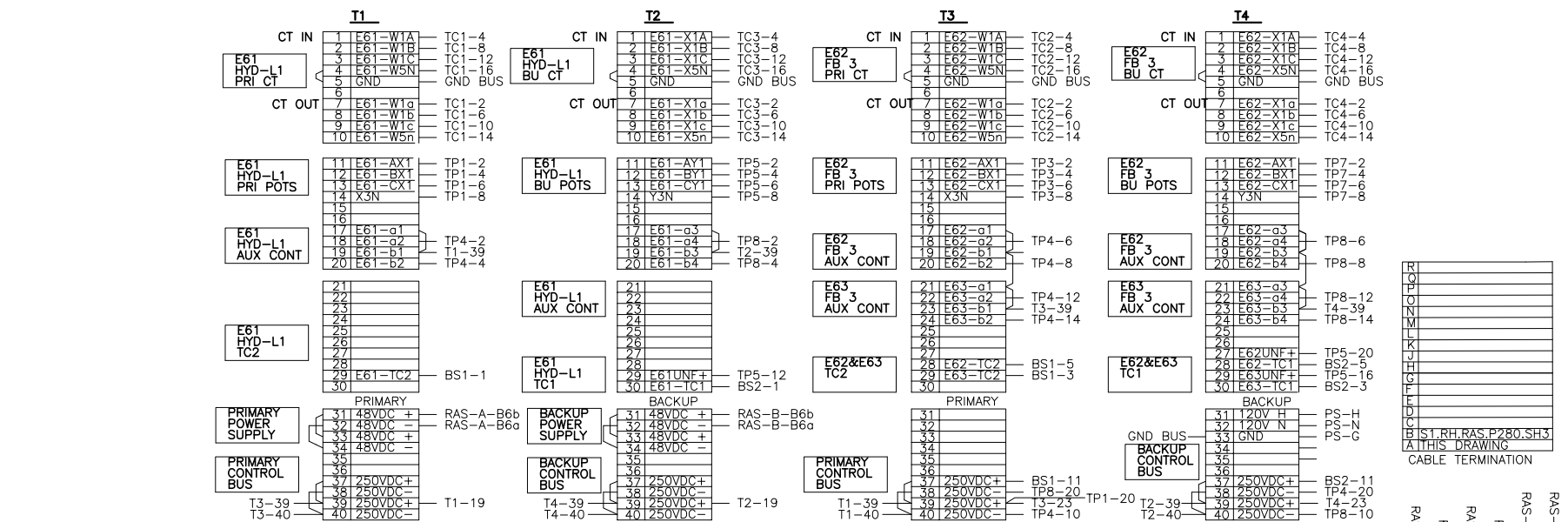
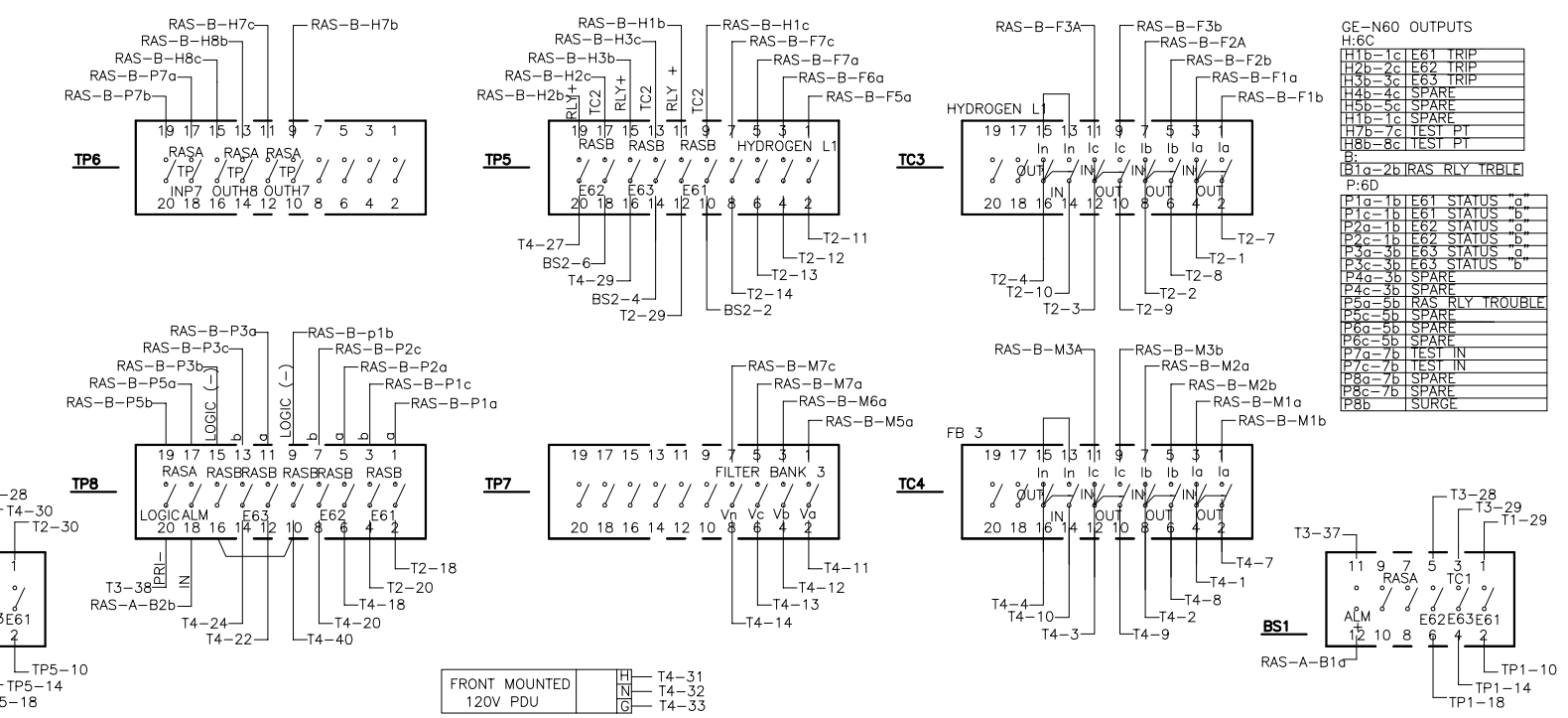
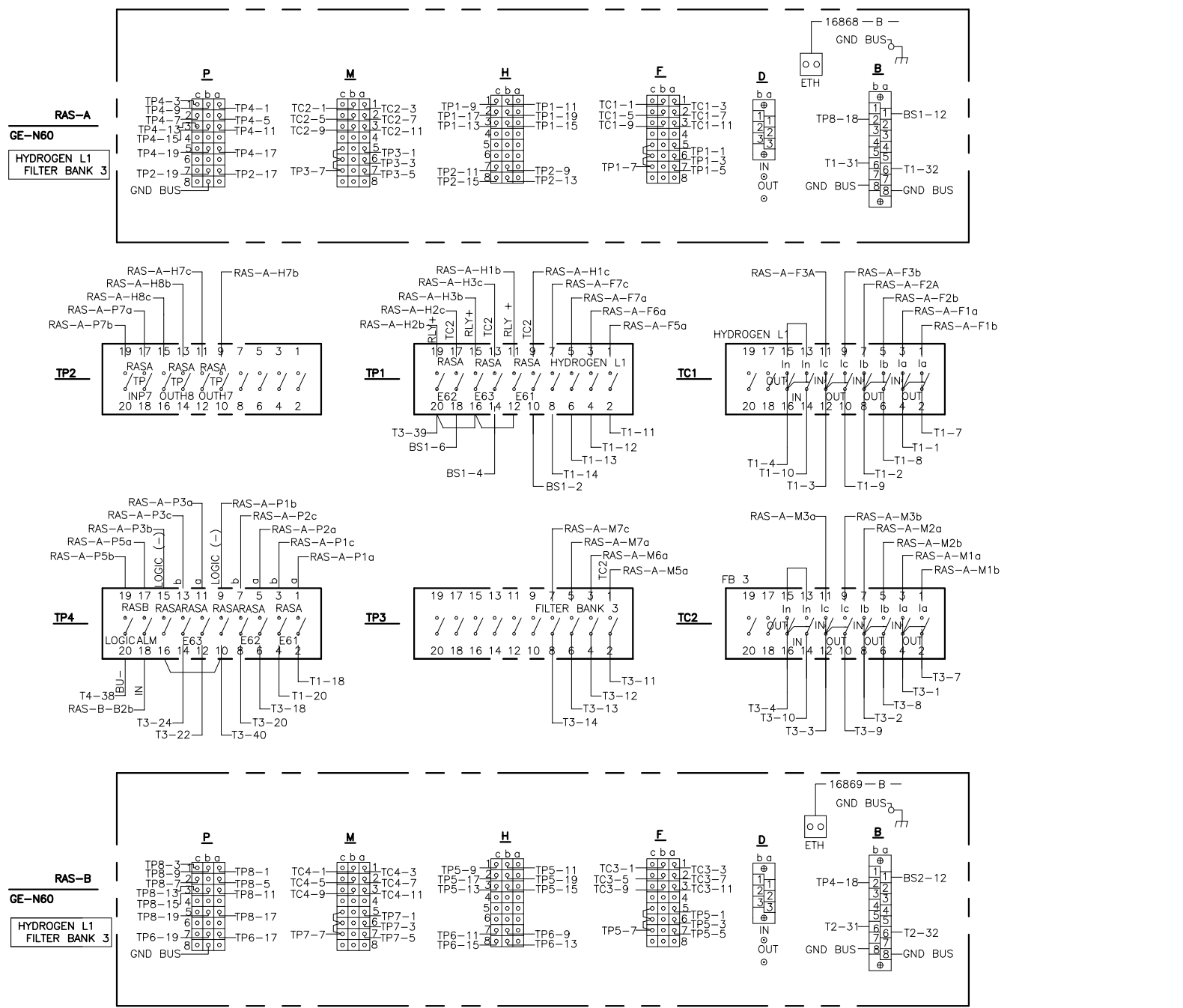
EQUIPMENT PLAN: S1.RH.RAS.P280.SH1  
 SCHEMATIC DIAGRAM: S1.RH.RAS.P280.SH4



EQUIPMENT PLAN: S1.RH.RAS.P281.SH1  
SCHEMATIC DIAGRAM: S1.RH.RAS.P281.SH4

DRAWING NUMBER: S1.RH.RAS.P281.SH3	DRAWING TITLE: RAS PANEL 281 RAS CONTROLLER WIRING DIAGRAM	NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	
		0	11-30-23	TEMPLATE CREATED	TBS	TBS	TBS	

IPP  
INTERMOUNTAIN  
POWER PROJECT  
DRAWN BY: TBS  
DATE: 11-30-23



EQUIPMENT PLAN: S1.RH.RAS.P282.SH1  
SCHEMATIC DIAGRAM: S1.RH.RAS.P282.SH4

DRAWING NUMBER:  
**U1.RH.RAS.P282.SH3**

DRAWING TITLE:  
**RAS PANEL 282  
HYDROGEN L1 AND FILTER BANK 3  
PANEL WIRING DIAGRAM**

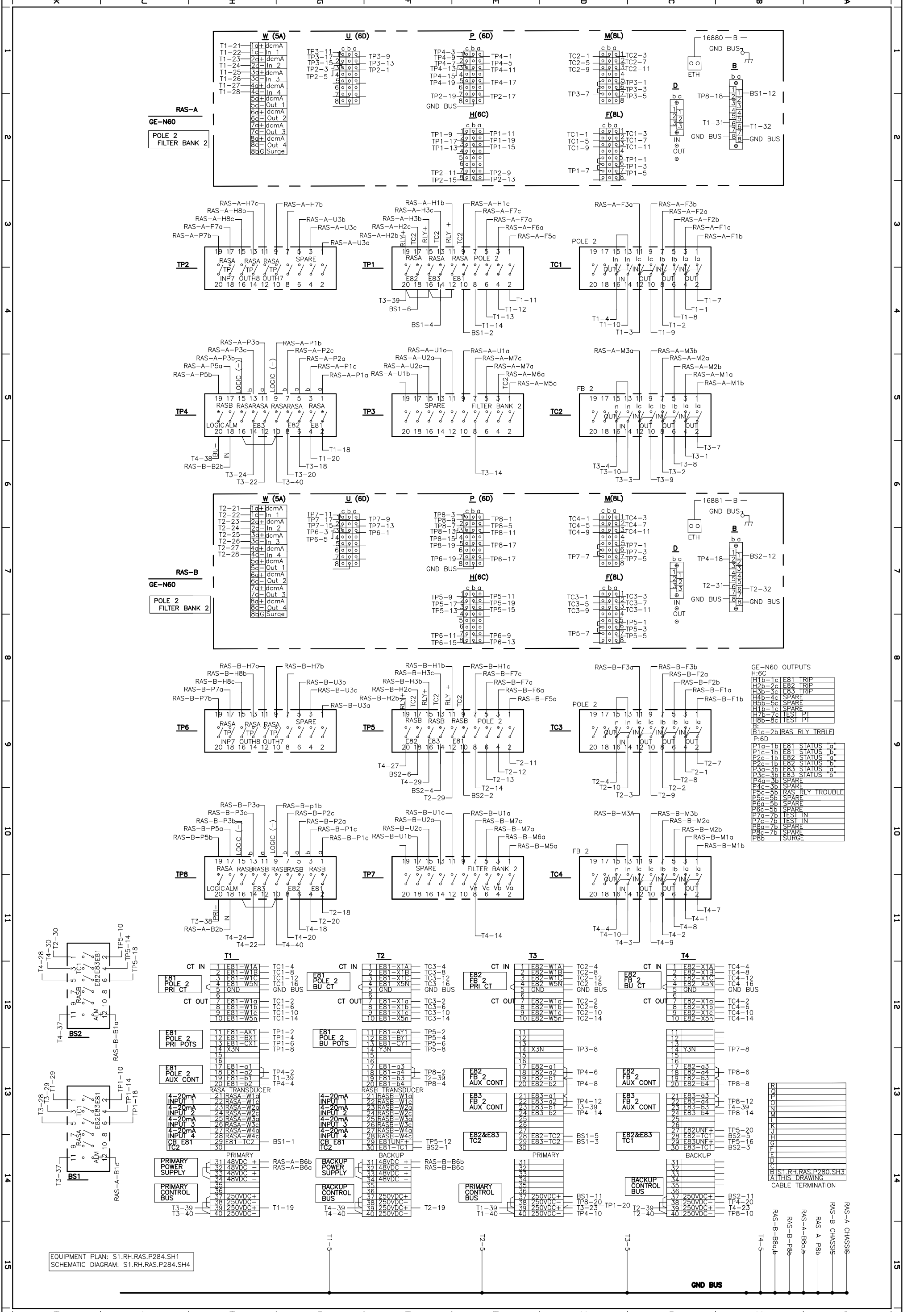
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					TBS
0	11-30-23	TEMPLATE CREATED	JSW	TBS	TBS

DGN APP

DATE: 11-30-23



INTERMOUNTAIN  
POWER PROJECT  
DRAWN BY: TBS

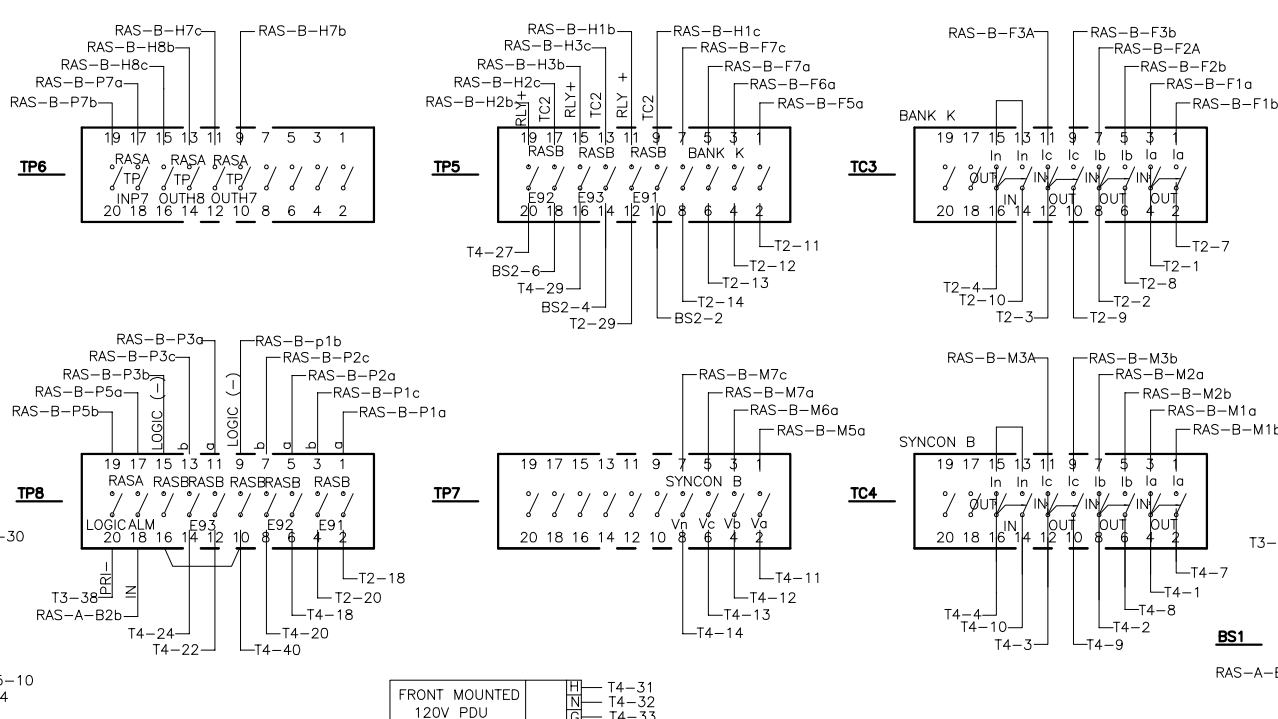
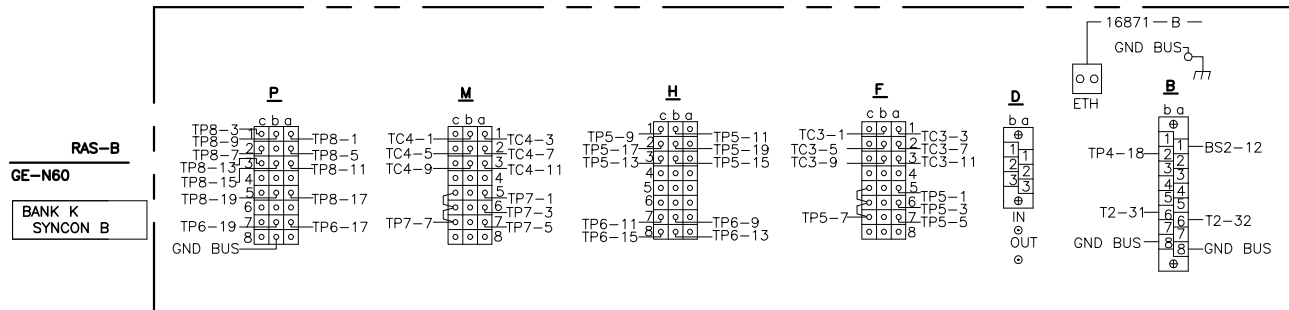
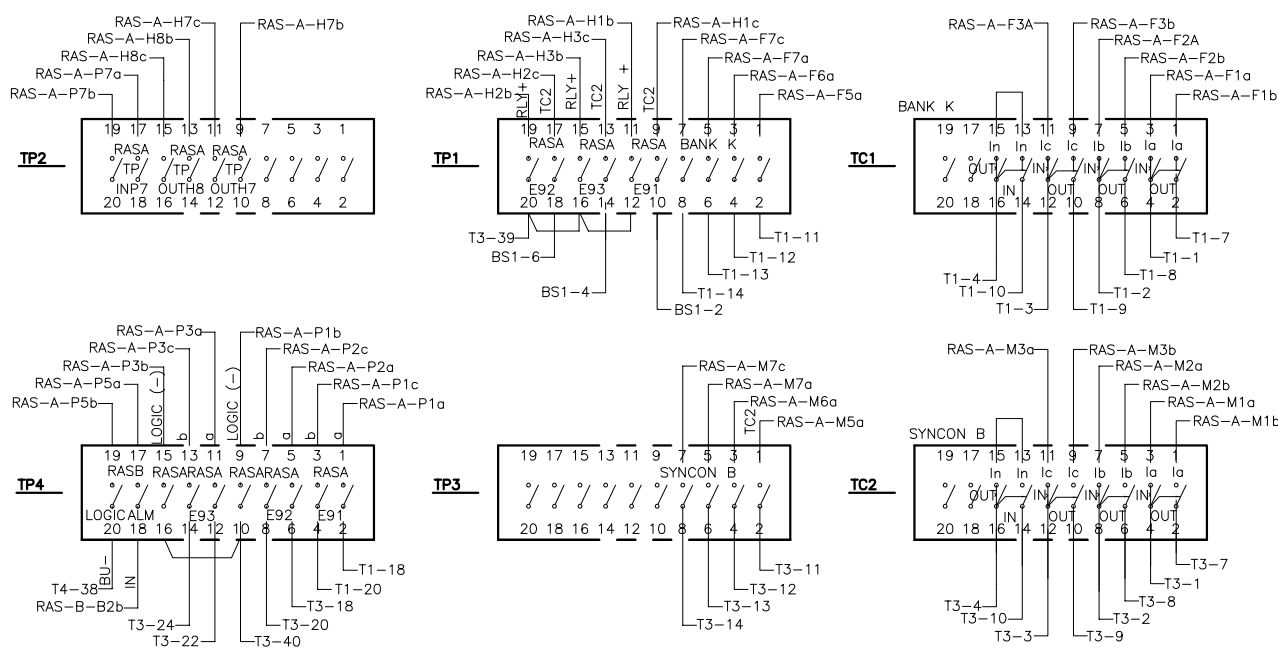
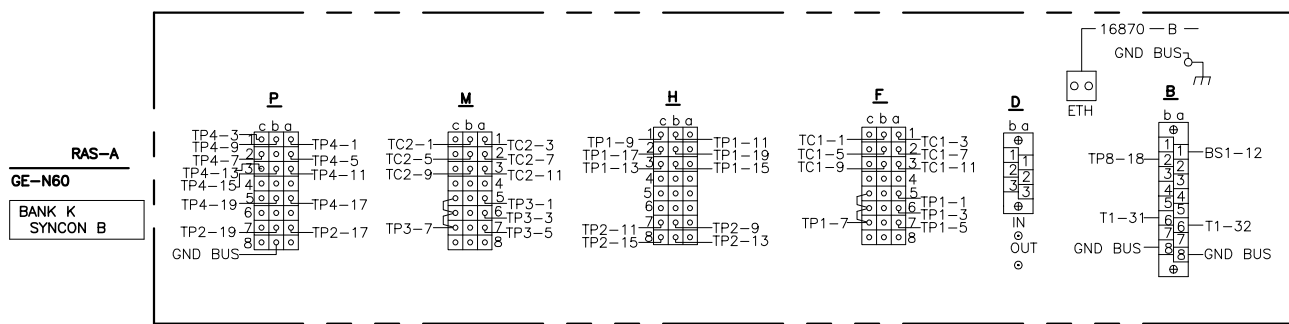


**GE-N60 OUTPUTS**

H:6C	Output	Function
H1b-1c	E81	TRIP
H2b-2c	E82	TRIP
H3b-3c	E83	TRIP
H4b-4c	SPARE	
H5b-5c	SPARE	
H1b-1c	E81	STATUS 'a'
H7b-7c	TEST PT	
H8b-8c	TEST PT	
B:		
B1a-2b	RAS RLY TRBLE	
P:6D		
P1a-1b	E81	STATUS 'a'
P1c-1d	E81	STATUS 'b'
P2a-1b	E82	STATUS 'a'
P2c-1b	E82	STATUS 'b'
P3a-3b	E83	STATUS 'a'
P3c-3b	E83	STATUS 'b'
P4a-3b	SPARE	
P4c-3b	SPARE	
P5a-5b	RAS RLY TROUBLE	
P6a-5b	SPARE	
P6c-5b	SPARE	
P7a-7b	TEST IN	
P7c-7b	TEST IN	
P8a-7b	SPARE	
P8b-7b	SPARE	
P8b	SURGE	

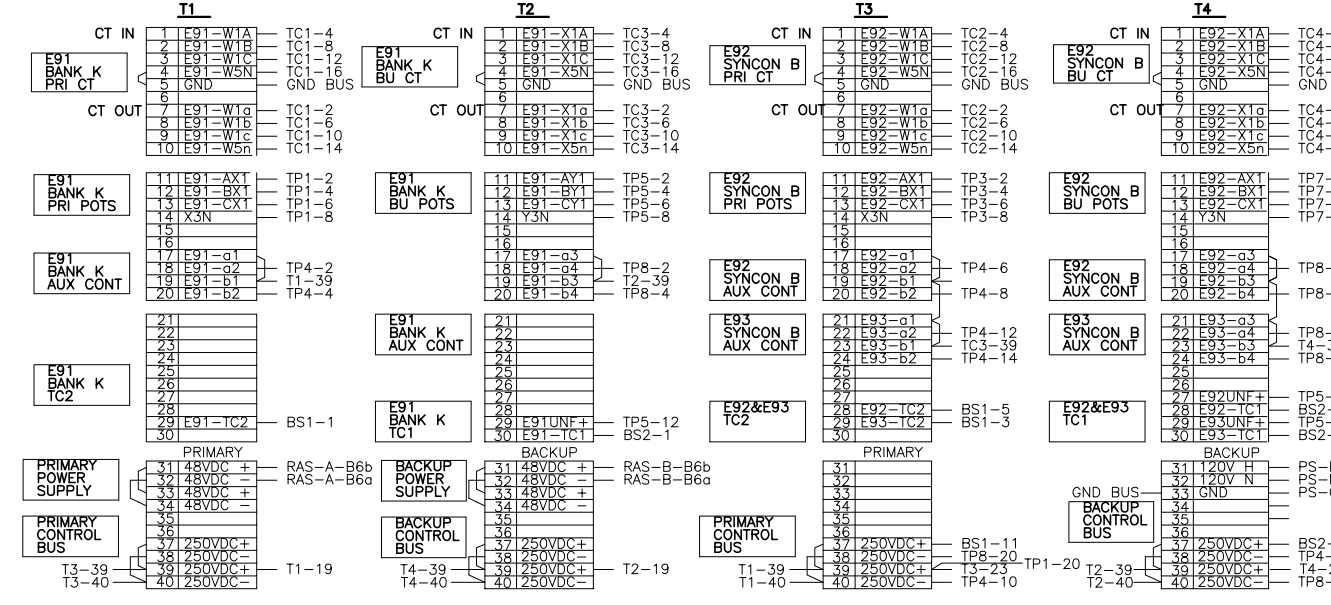
**CABLE TERMINATION**

Terminal	Wiring
BS1-11	RAS-A-CHASSIS
BS1-20	RAS-B-CHASSIS
BS1-21	RAS-A-P8a
BS1-22	RAS-A-P8b
BS1-23	RAS-B-P8a
BS1-24	RAS-B-P8b
BS2-11	RAS-A-CHASSIS
BS2-20	RAS-B-CHASSIS
BS2-21	RAS-A-P8a
BS2-22	RAS-A-P8b
BS2-23	RAS-B-P8a
BS2-24	RAS-B-P8b



GE-N60 OUTPUTS

H1b-1c	E91 TRIP
H2b-2c	E92 TRIP
H3b-3c	E93 TRIP
H4b-4c	SPARE
H5b-5c	SPARE
H6b-6c	SPARE
H7b-7c	TEST PT
H8b-8c	TEST PT
P1a-2b	RAS RLY TRBLE
P6D	
P1a-1b	E91 STATUS a
P1c-1b	E91 STATUS b
P2a-1b	E92 STATUS a
P2c-1b	E92 STATUS b
P3a-3b	E93 STATUS a
P3c-3b	E93 STATUS b
P4c-3b	SPARE
P5a-5b	RAS RLY TROUBLE
P5c-5b	SPARE
P6a-5b	SPARE
P6c-5b	SPARE
P7a-7b	TEST IN
P7c-7b	TEST IN
P8a-7b	SPARE
P8c-7b	SPARE
P8b-7b	SPARE
P8b	SURGE

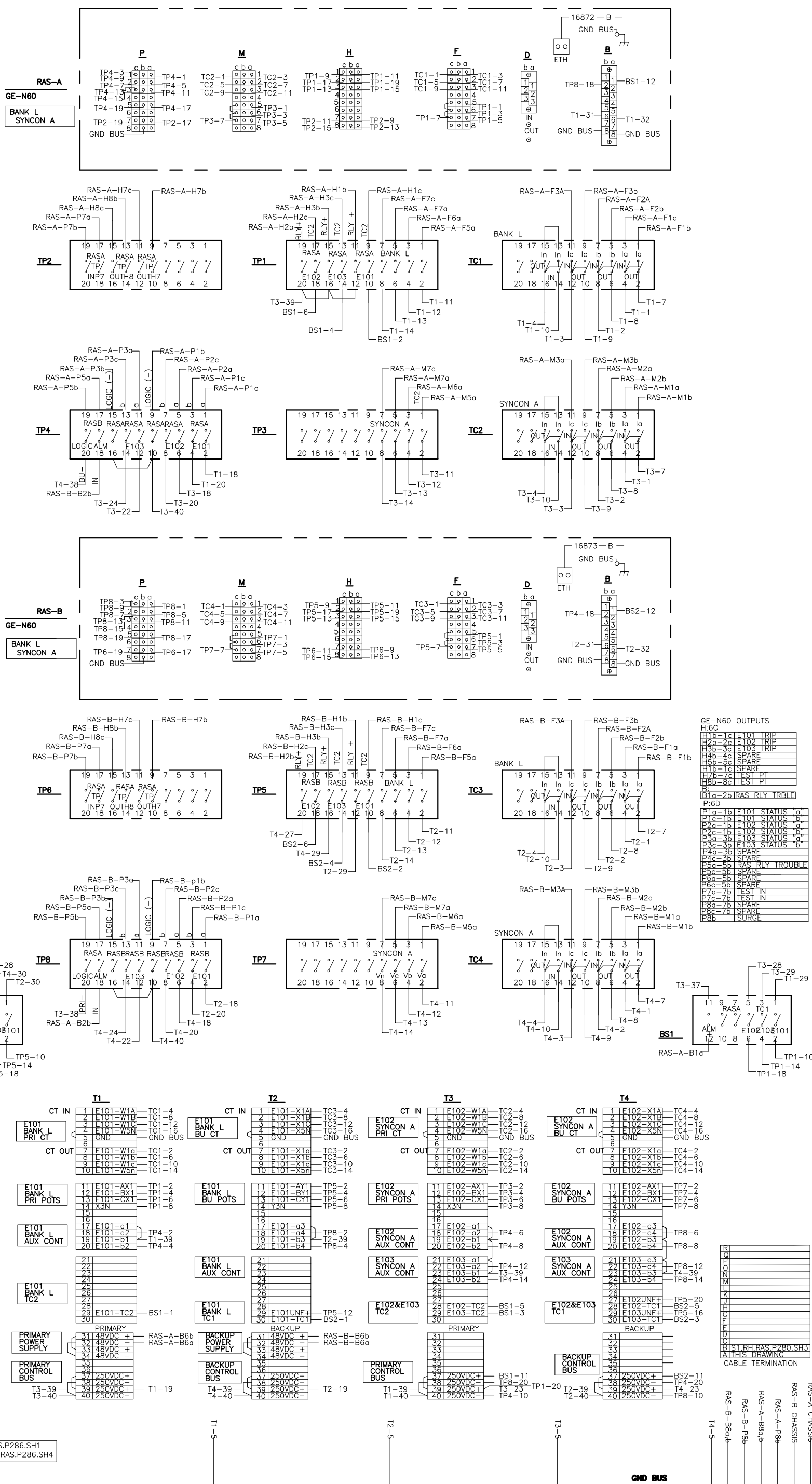


CABLE TERMINATION

RAS-A	CHASSIS
RAS-B	CHASSIS
RAS-A-P8a	
RAS-A-P8b	
RAS-B-P8a	
RAS-B-P8b	
RAS-B-B8a	
RAS-B-B8b	
RAS-B-B8c	
RAS-B-B8d	
RAS-B-B8e	
RAS-B-B8f	
RAS-B-B8g	
RAS-B-B8h	
RAS-B-B8i	
RAS-B-B8j	
RAS-B-B8k	
RAS-B-B8l	
RAS-B-B8m	
RAS-B-B8n	
RAS-B-B8o	
RAS-B-B8p	
RAS-B-B8q	
RAS-B-B8r	
RAS-B-B8s	
RAS-B-B8t	
RAS-B-B8u	
RAS-B-B8v	
RAS-B-B8w	
RAS-B-B8x	
RAS-B-B8y	
RAS-B-B8z	

EQUIPMENT PLAN: S1.RH.RAS.P285.SH1  
SCHEMATIC DIAGRAM: S1.RH.RAS.P285.SH4





**GE-N60 OUTPUTS**

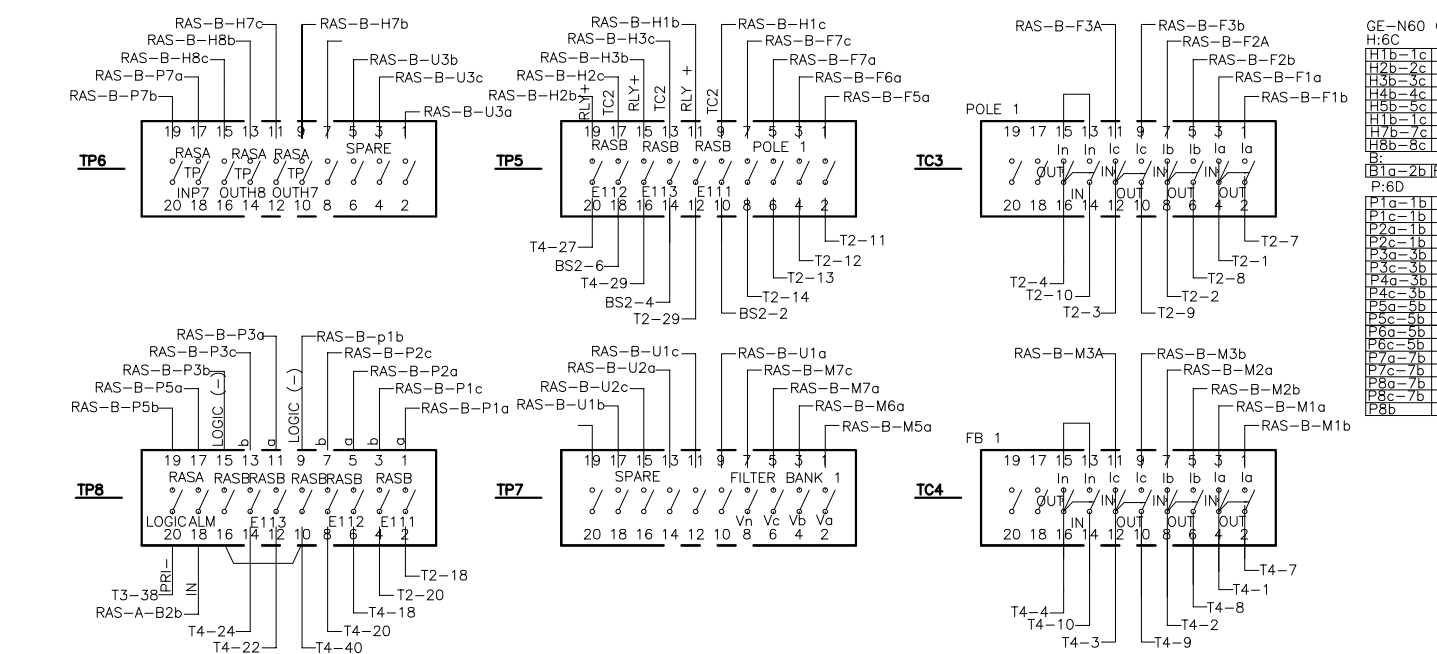
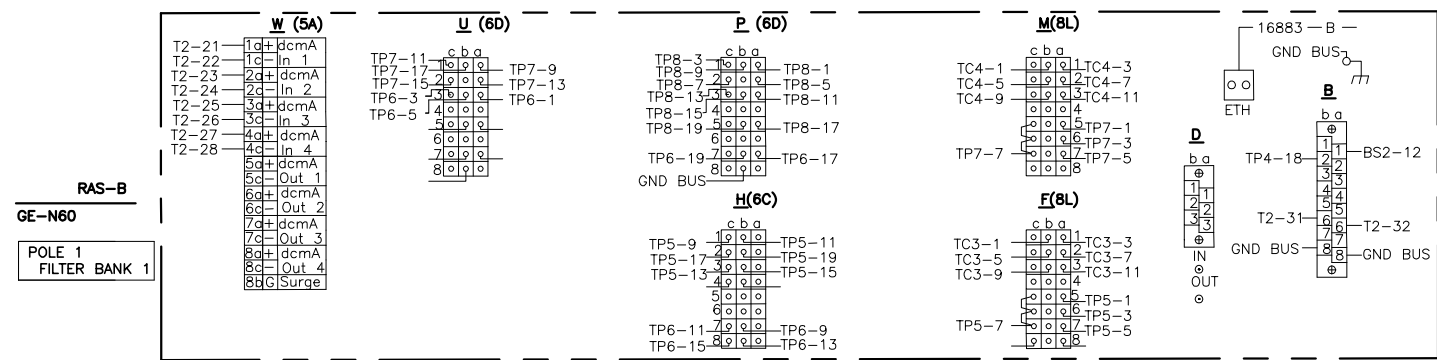
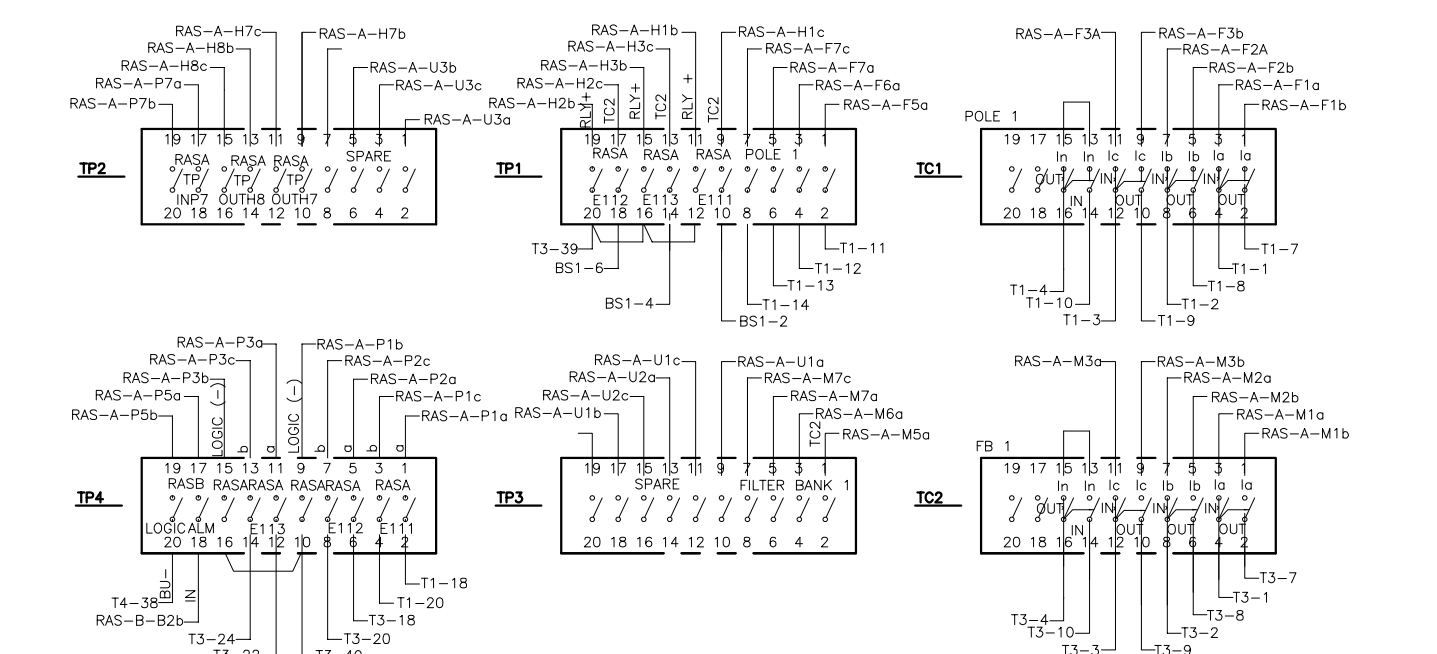
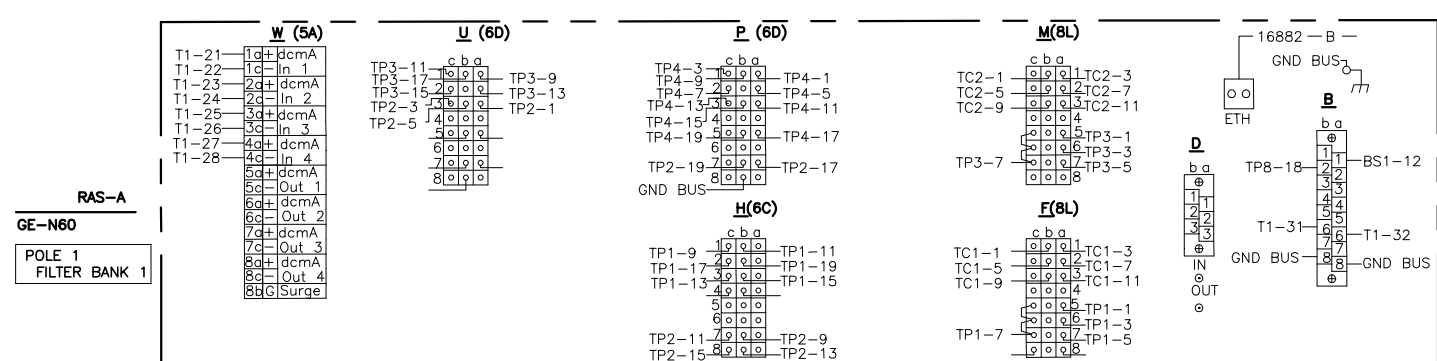
H7c-1c	E101 TRIP
H2b-2c	E102 TRIP
H3b-3c	E103 TRIP
H4b-4c	SPARE
H5b-5c	SPARE
H1b-6c	SPARE
H7b-7c	TEST PT
H8b-8c	TEST PT
B1a-2b	RAS RLY TRBLE
P1a-1b	E101 STATUS 'a'
P1c-1b	E101 STATUS 'b'
P2a-1b	E102 STATUS 'a'
P2c-1b	E102 STATUS 'b'
P3a-3b	E103 STATUS 'a'
P3c-3b	E103 STATUS 'b'
P4c-3b	SPARE
P5a-5b	RAS RLY TROUBLE
P5c-5b	SPARE
P6a-5b	SPARE
P6c-5b	SPARE
P7a-7b	TEST IN
P7c-7b	TEST IN
P8a-7b	SPARE
P8c-7b	SPARE
P8b	SURGE

**CABLE TERMINATION**

RAS-A	CHASSIS
RAS-B	CHASSIS
RAS-A-P8a	
RAS-A-P8b	
RAS-B-P8a	
RAS-B-P8b	
T1-5	
T2-5	
T3-5	
T4-5	

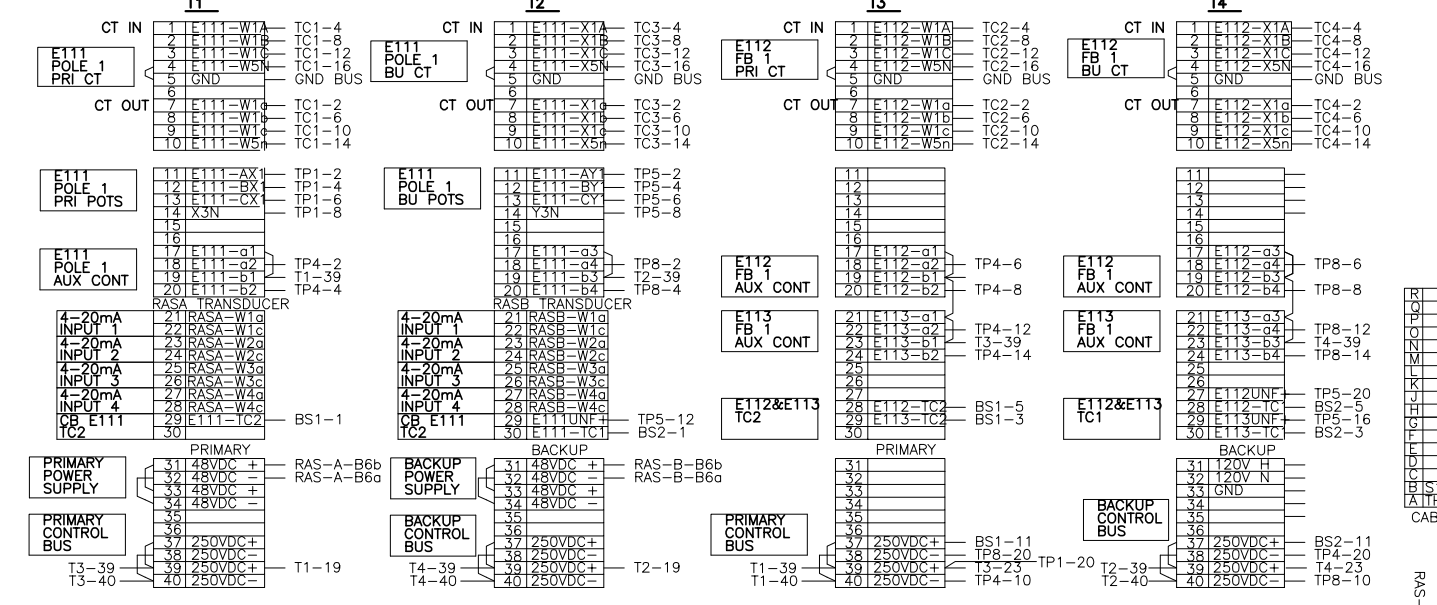
EQUIPMENT PLAN: S1.RH.RAS.P286.SH1  
SCHEMATIC DIAGRAM: S1.RH.RAS.P286.SH4

<p>INTERMOUNTAIN POWER PROJECT DRAWN BY: TBS DATE: 11-30-23</p>	DRAWING NUMBER: <b>U1.RH.RAS.P286.SH3</b>	DRAWING TITLE: <b>RAS PANEL 286 BANK L AND SYNCON A PANEL WIRING DIAGRAM</b>	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> <th>DGN</th> <th>CHK</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>11-30-23</td> <td>TEMPLATE CREATED</td> <td>JSW</td> <td>TBS</td> <td>TBS</td> </tr> </tbody> </table>			NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP	0	11-30-23	TEMPLATE CREATED	JSW	TBS	TBS
	NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP											
0	11-30-23	TEMPLATE CREATED	JSW	TBS	TBS												
			DGN	CHK	APP												



GE-N60 OUTPUTS

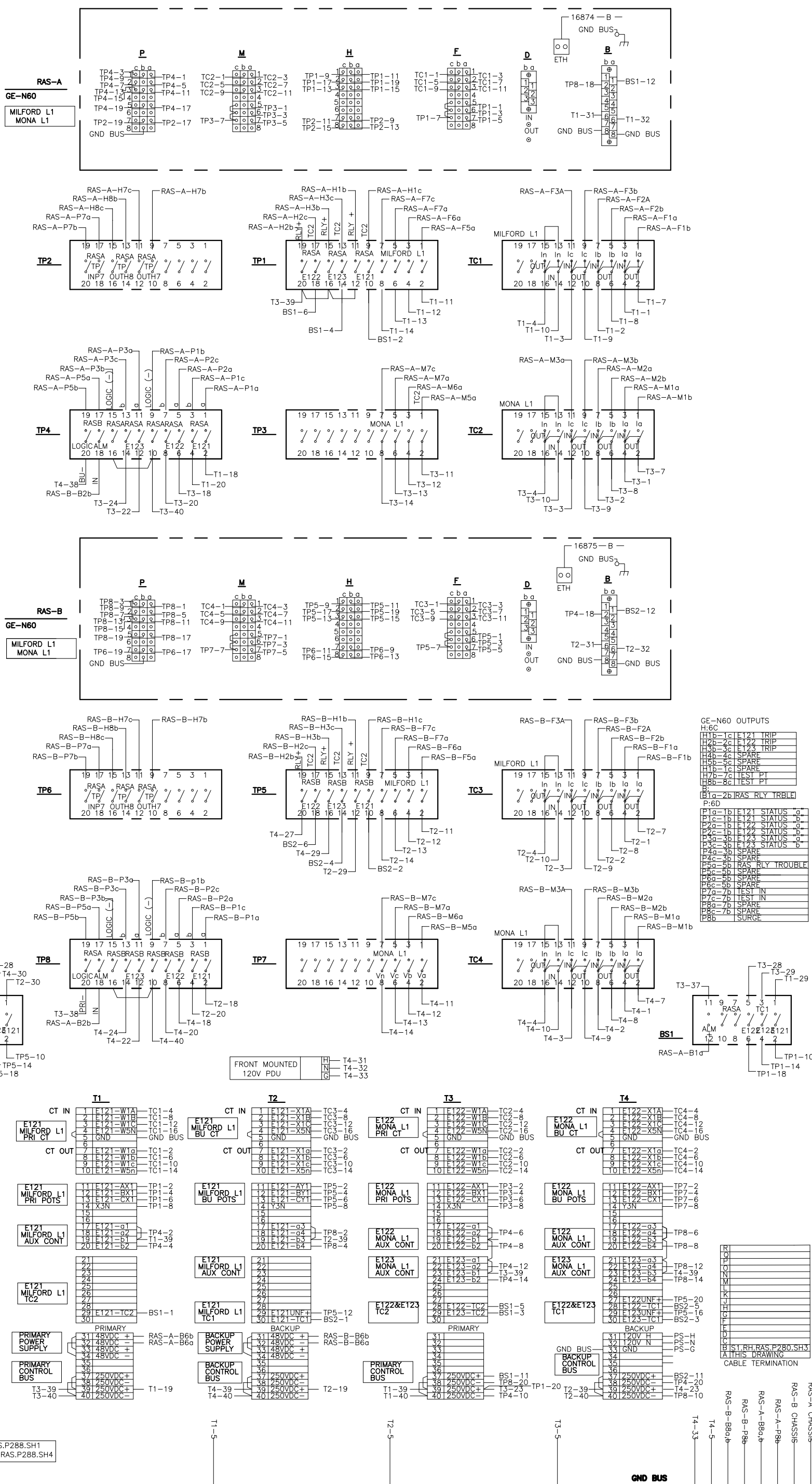
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H:6C	H2b-2c	E112 TRIP
H:6C	H3b-3c	E113 TRIP
H:6C	H4b-4c	SPARE
H:6C	H5b-5c	SPARE
H:6C	H1b-1c	SPARE
H:6C	H7b-7c	TEST PT
H:6C	H8b-8c	TEST PT
B:	B1a-2b	RAS RLY TRBLE
P:6D	P1a-1b	E111 STATUS
P:6D	P2a-1b	E111 STATUS
P:6D	P2a-1b	E112 STATUS
P:6D	P2c-1b	E112 STATUS
P:6D	P3a-3b	E113 STATUS
P:6D	P3a-3b	E113 STATUS
P:6D	P4a-3b	SPARE
P:6D	P4c-3b	SPARE
P:6D	P5a-5b	RAS RLY TROUBLE
P:6D	P6a-5b	SPARE
P:6D	P6c-5b	SPARE
P:6D	P7a-7b	TEST IN
P:6D	P7c-7b	TEST IN
P:6D	P8a-7b	SPARE
P:6D	P8b-7b	SPARE
P:6D	P8b	SURGE



EQUIPMENT PLAN: S1.RH.RAS.P287.SH1  
SCHEMATIC DIAGRAM: S1.RH.RAS.P287.SH4

CABLE TERMINATION

R	RAS-A	CHASSIS
O	RAS-B	CHASSIS
I	RAS-A-P8a	
N	RAS-A-P8b	
M	RAS-A-P8c	
K	RAS-B-P8a	
J	RAS-B-P8b	
H	RAS-B-P8c	
G	RAS-B-P8d	
F	RAS-B-P8e	
E	RAS-B-P8f	
D	RAS-B-P8g	
C	RAS-B-P8h	
B	RAS-B-P8i	
A	RAS-B-P8j	



**GE-N60 OUTPUTS**

H16C-1c	E121	TRIP
H2b-2c	E122	TRIP
H3b-3c	E123	TRIP
H4b-4c	SPARE	
H5b-5c	SPARE	
H7b-7c	TEST PT	
H8b-8c	TEST PT	
B1a-2b	RAS RLY TRBLE	
P:6D		
P1a-1b	E121	STATUS 'a'
P1c-1b	E121	STATUS 'b'
P2a-1b	E122	STATUS 'a'
P2c-1b	E122	STATUS 'b'
P3a-3b	E123	STATUS 'a'
P3c-3b	E123	STATUS 'b'
P4c-3b	SPARE	
P5a-5b	RAS RLY TROUBLE	
P5c-5b	SPARE	
P6c-5b	SPARE	
P7c-7b	TEST IN	
P8c-7b	SPARE	
P8c-7b	SPARE	
P8b	SURGE	

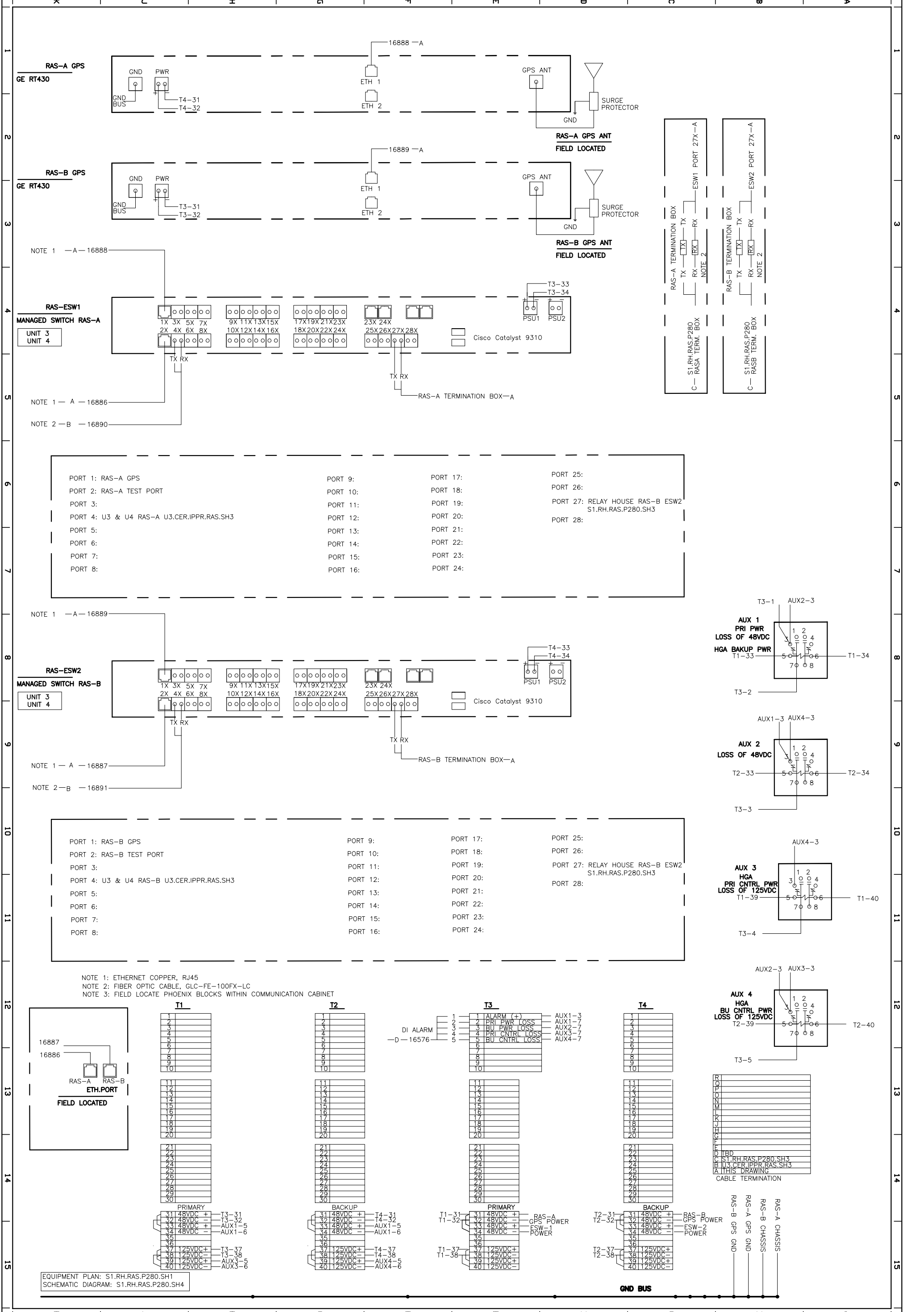
**CABLE TERMINATION**

RAS-A	CHASSIS
RAS-B	CHASSIS
RAS-A-P8b	
RAS-A-P8a	
RAS-B-P8b	
RAS-B-P8a	
RAS-B-B8a	
RAS-B-B8b	
RAS-B-B8c	
RAS-B-B8d	
RAS-B-B8e	
RAS-B-B8f	
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RAS-B-B8l	
RAS-B-B8m	
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RAS-B-B8p	
RAS-B-B8q	
RAS-B-B8r	
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RAS-B-B8t	
RAS-B-B8u	
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RAS-B-B8w	
RAS-B-B8x	
RAS-B-B8y	
RAS-B-B8z	

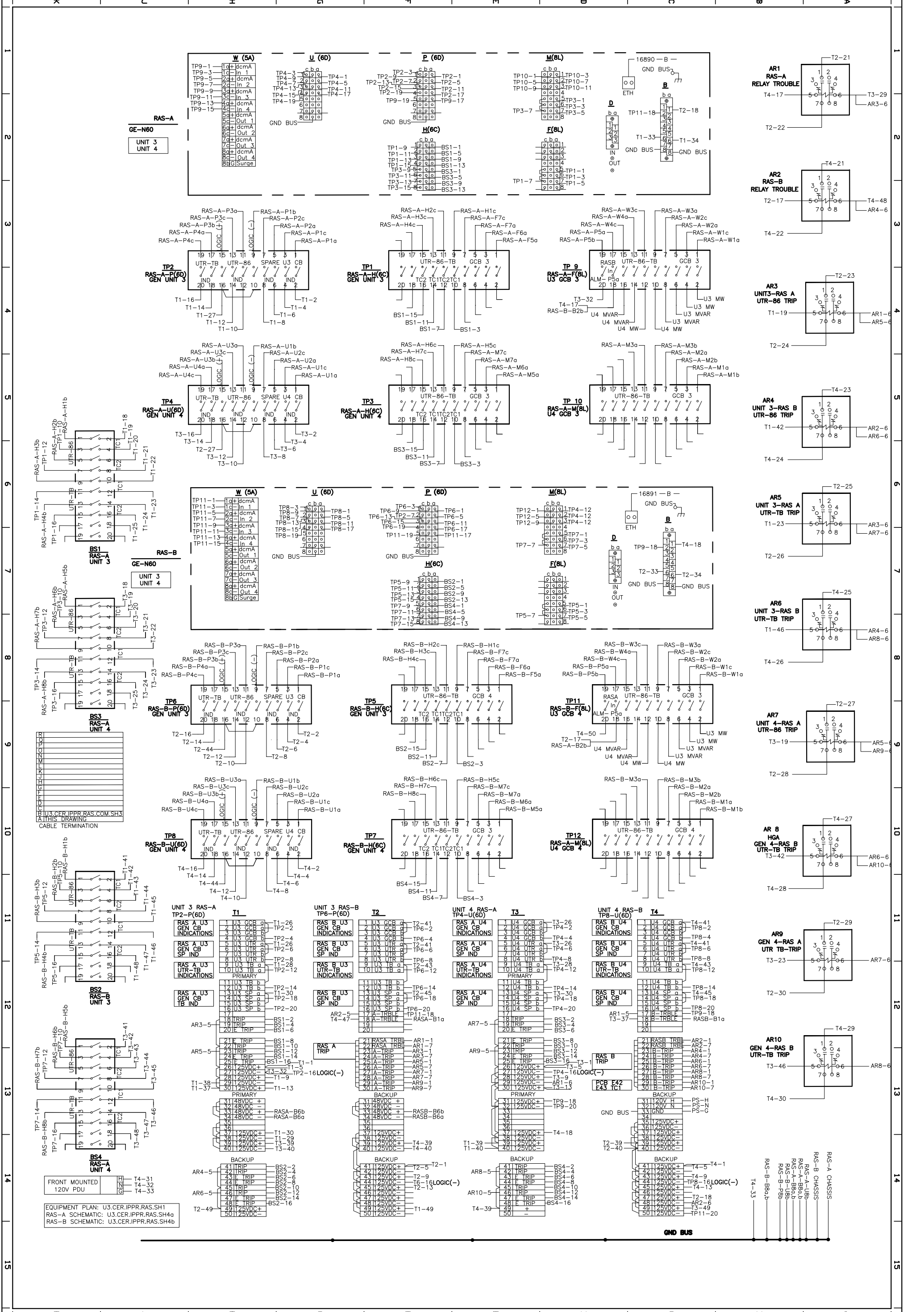
EQUIPMENT PLAN: S1.RH.RAS.P288.SH1  
 SCHEMATIC DIAGRAM: S1.RH.RAS.P288.SH4

<p>INTERMOUNTAIN POWER PROJECT DRAWN BY: TBS DATE: 11-30-23</p>	DRAWING NUMBER:	DRAWING TITLE:	NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP
	U1.RH.RAS.P288.SH3	RAS PANEL 288 MILFORD L1 AND MONA L1 PANEL WIRING DIAGRAM	0	11-30-23	TEMPLATE CREATED	JSW	TBS	TBS
			0	---	ISSUED FOR APPROVAL	DGN	CHK	APP





NO.	DATE	DESCRIPTION OF REVISIONS	DGN	CHK	APP
0	11-30-23	TEMPLATE CREATED	TBS	TBS	TBS



DRAWING NUMBER: <b>U3.CER.IPPR.RAS.SH3</b>	DRAWING TITLE: <b>IPPR RAS PANEL          GAS UNIT 3 &amp; GAS UNIT 4          PANEL WIRING DIAGRAM</b>	NO. DATE DESCRIPTION OF REVISIONS				DGN	CHK	APP
		0	11-30-23	TEMPLATE CREATED		TBS	TBS	TBS
		DESCRIPTION OF REVISIONS				DGN	CHK	APP