

### BILL OF MATERIAL

ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	1	VENDOR	HOFFMAN	A60P48	BACK PANEL, 56"X44"
2	AR	VENDOR	PHOENIX	1201141	DIN RAIL ISOLATOR AB/INS
3	AR	VENDOR	ENTRELEC	173 220.05	DIN RAIL TS 35/F6
4	AR	VENDOR	PANDUIT	HN2X4LG6	WIRE DUCT, 2" X 4", GREY, WITH HINGED COVER
5	AR	VENDOR	PANDUIT	HC2LG6	HINGED WIRE DUCT COVER, 2" WIDE, GREY
6	AR	VENDOR	PANDUIT	HN3X4LG6	WIRE DUCT, 3" X 4", GREY, WITH HINGED COVER
7	AR	VENDOR	PANDUIT	HC3LG6	HINGED WIRE DUCT COVER, 3" WIDE, GREY
8	AR	VENDOR	PANDUIT	SD4EMI	EMI SHIELD, 4" HIGH
9	1	VENDOR	ILSCO	NB-350-24-W/R16	ISOLATED GROUNDING BLOCK, 350KCMIL-#6 AWG PRIMARY CONNECTION WITH 24 #4 - #14 AWG CONNECTIONS
10	1	VENDOR	ILSCO	NB-350-12	GROUNDING BLOCK, 350KCMIL-#6 AWG PRIMARY WITH 12 #4 - #14 AWG CONNECTIONS
11	2	VENDOR	PHOENIX	2938604	POWER SUPPLY, QUINT-PS-100-240AC/24DC/10, 10AMP, 24VDC OUTPUT, 120VAC INPUT
12	AR	VENDOR	PANDUIT	HN4X4LG6	WIRE DUCT, 4" X 4", GREY, WITH HINGED COVER
13	AR	VENDOR	PANDUIT	HC4LG6	HINGED WIRE DUCT COVER, 4" WIDE, GREY
14	AR	VENDOR	PANDUIT	HN1.5X3LG6	WIRE DUCT, 1.75" X 3", GREY, WITH HINGED COVER
15	AR	VENDOR	PANDUIT	HC1.5LG6	HINGED WIRE DUCT COVER, 1.75" WIDE, GREY
16	10	VENDOR	PHOENIX CONTACT	2961105	GENERAL PURPOSE RELAY SPDT 6A 24V
17	10	VENDOR	PHOENIX CONTACT	2966016	RELAY SOCKET

### SUBASSEMBLIES

ITEM	QTY	DESCRIPTION	DRAWING
1	1	ALLEN BRADLEY 1734 REMOTE I/O RACK & SUBASSEMBLY	D-9567-N09-1111
2	1	AC POWER DISTRIBUTION ASSEMBLY	D-9567-N09-1121
3	1	DC POWER DISTRIBUTION CIRCUIT BREAKERS ASSEMBLY	D-9567-N09-1122
4	4	GROUNDING TERMINAL BLOCK ASSEMBLY	D-9567-N09-1122
5	6	DISCRETE INPUT TERMINAL BLOCK ASSEMBLY	D-9567-N09-1131
6	7	DISCRETE OUTPUT TERMINAL BLOCK ASSEMBLY	D-9567-N09-1132
7	4	ANALOG INPUT TERMINAL BLOCK ASSEMBLY	D-9567-N09-1133
8	2	ANALOG OUTPUT TERMINAL BLOCK ASSEMBLY	D-9567-N09-1134
9	1	DISCRETE/ANALOG I/O POWER TERMINAL BLOCK ASSEMBLY	D-9567-N09-1141
10	1	RTD INPUT TERMINAL BLOCK ASSEMBLY	D-9567-N09-1135
11	1	ESD TERMINAL BLOCK AND RELAY ASSEMBLY	D-9567-N09-1124
12	1	ETAPS AND FIBER BREAK OUT BOX ASSEMBLY	D-9567-N09-1112

#### NOTES:

- ALL I/O TERMINALS SHALL BE INSTALLED ON ISOLATED DIN RAIL.
- CONNECT ALL ISOLATED DIN RAIL GROUNDS TO ISOLATED INSTRUMENT GROUNDING BUS WITH #14 GREEN/YELLOW THHN WIRE.
- CONNECT PLC CHASSIS TO ISOLATED GROUND BUS WITH #14 GREEN/YELLOW THHN WIRE.
- INSTALL BLACK WIRE WAY COVER ON WIRE WAYS WITH 120VAC POWER INSTALLED.
- INSTALL EMI SHIELDS BETWEEN 120VAC AND 24VDC POWER AND SIGNALS.

#### LEGEND.

- (X) BILL OF MATERIAL ITEM TAG
- (X) SUBASSEMBLY TAG

#### NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS			ENGINEERING RECORD		
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.
0		04/16/24		ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA

**Sargent & Lundy**  
400 Inverness Parkway, #200  
Englewood, CO 80112  
303.768.9191 Office  
303.768.9292 Fax

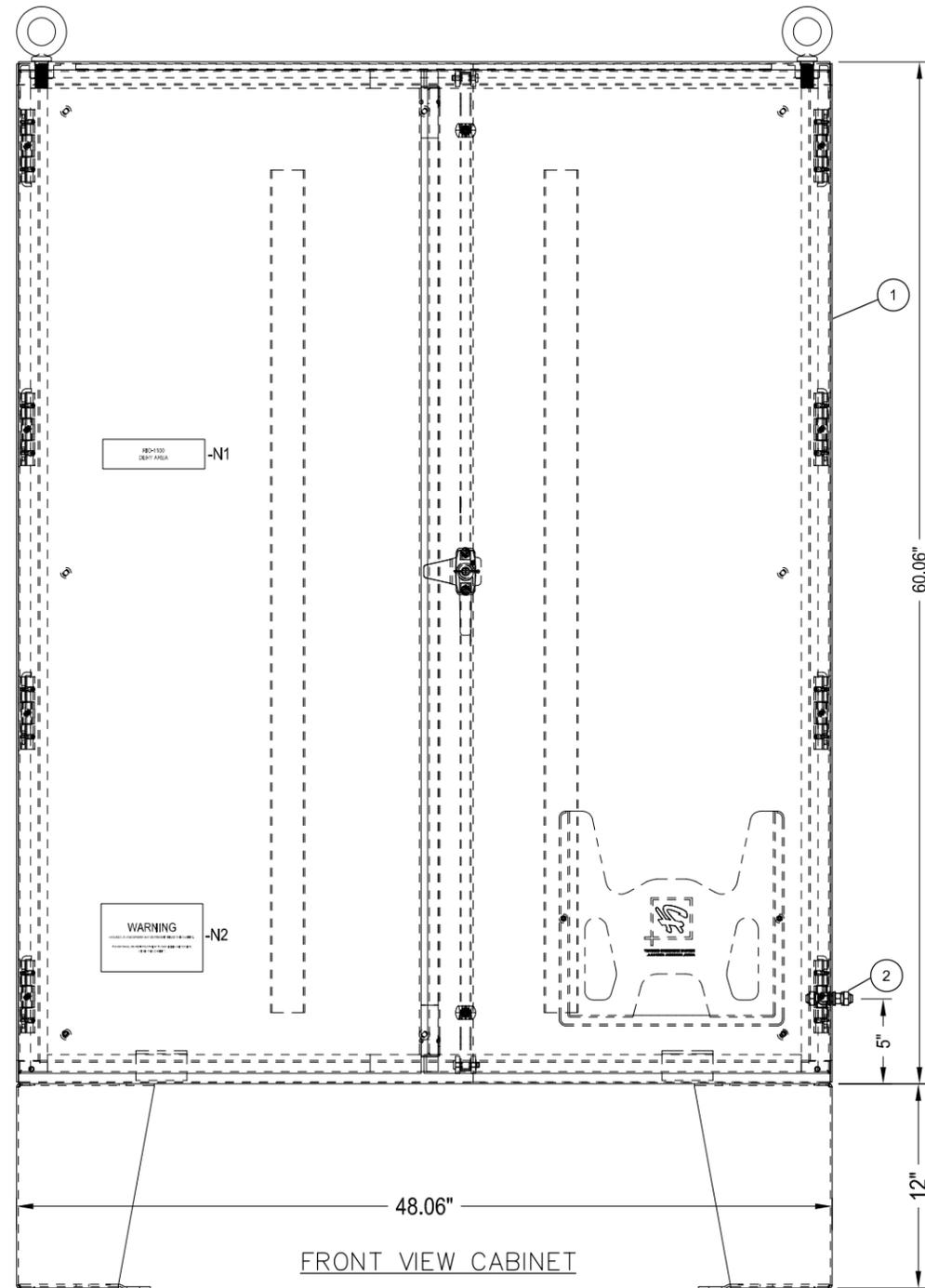
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DES:	ARC	01/02/24
CHK:	AMP	01/03/24
APP:	MSA	01/04/24
AFE No.		
S&L JOB NO.	A15188.001	
PROJ. ENGR:	MSA	
SCALE:	NTS	

**CANES**  
MIDSTREAM  
BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100  
BACK PANEL LAYOUT  
REAGAN COUNTY, TEXAS

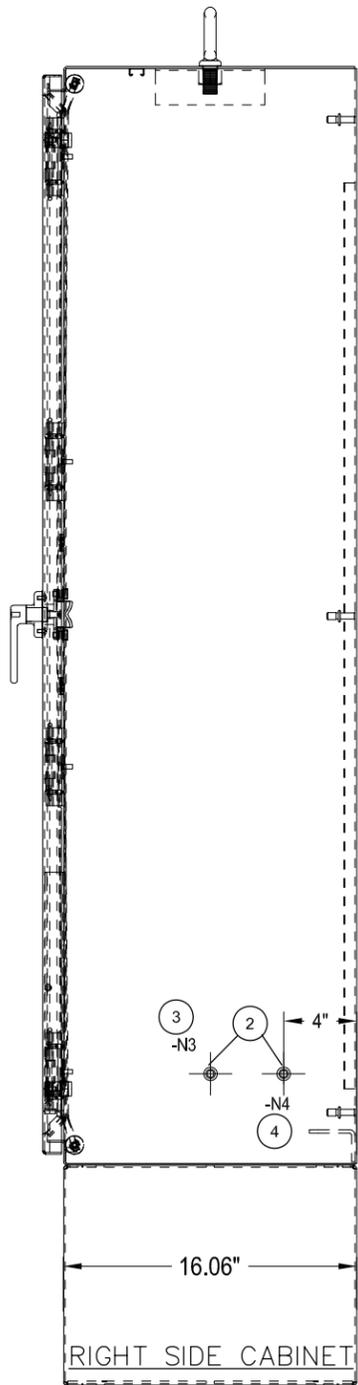
DWG. NO. D-9567-N09-1101  
REV 0

NAME PLATE SCHEDULE									
ITEM	QTY	LINE 1	LINE 2	LINE 3	TEXT HEIGHT			SIZE	TYPE
					1	2	3		
N1	1	RIO-1100	DEHY AREA		1/4"	1/4"	1/4"	6" x 1 3/4"	WHITE W/BLACK LETTERING
N2	1	SEE WARNING LABEL DETAIL BELOW FOR TEXT			1/2"	1/8"	1/8"	6" x 4"	RED W/WHITE LETTERING
N3	1	EQUIPMENT GROUNDING			1/4"			6" x 1 3/4"	WHITE W/BLACK LETTERING
N4	1	INSTRUMENT GROUNDING			1/4"			6" x 1 3/4"	WHITE W/BLACK LETTERING

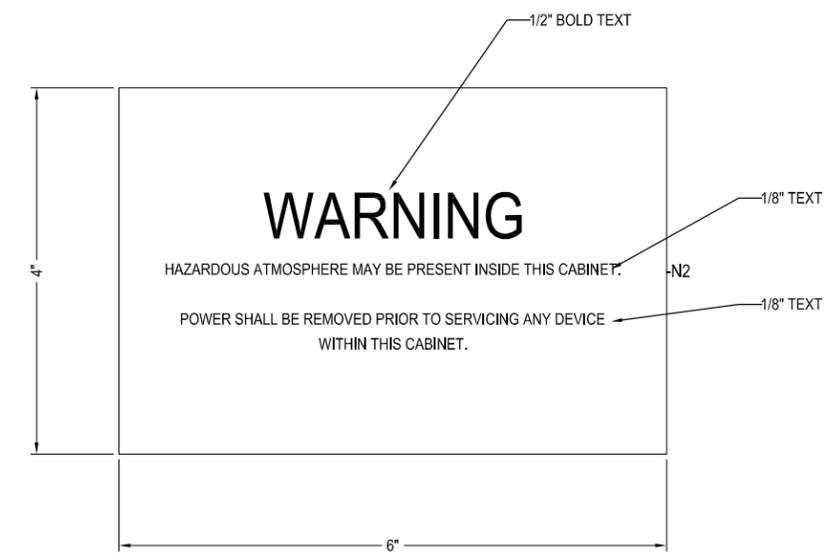
BILL OF MATERIAL					
ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	1	VENDOR	HOFFMAN	A604816LP	PANEL, NEMA 12, 60" x 48" x 16", DOUBLE DOOR, 3 POINT-LATCH
2	2	VENDOR	BURNDY	KCKF23	BURNDY BULK HEAD SERVIC POST



FRONT VIEW CABINET



RIGHT SIDE CABINET



WARNING LABEL DETAIL  
NOTE #2

**NOTES:**  
 1. ALL MATERIALS AND WIRING METHODS USED FOR THE CONSTRUCTION OF THIS PANEL SHALL BE IN COMPLIANCE WITH THE REQUIREMENT FOR INSTALLATION IN A CLASS 1 DIVISION 2 ENVIRONMENT, WITHOUT THE USE OF A PURGE.  
 2. PROVIDE AND INSTALL WARNING LABEL SHOWN BELOW ON OUTSIDE OF PANEL DOOR. LABEL SHALL BE RED WITH WHITE LETTERS.

**REVISED**  
 APRIL 16, 2024  
**FOR CONSTRUCTION**

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**Sargent & Lundy**  
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 Englewood, CO 80112  
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**CANES MIDSTREAM**

BIG LAKE FACILITY  
 200 MMSCFD GAS PROCESSING PLANT  
 RIO-1100  
 ENCLOSURE LAYOUT  
 REAGAN COUNTY, TEXAS

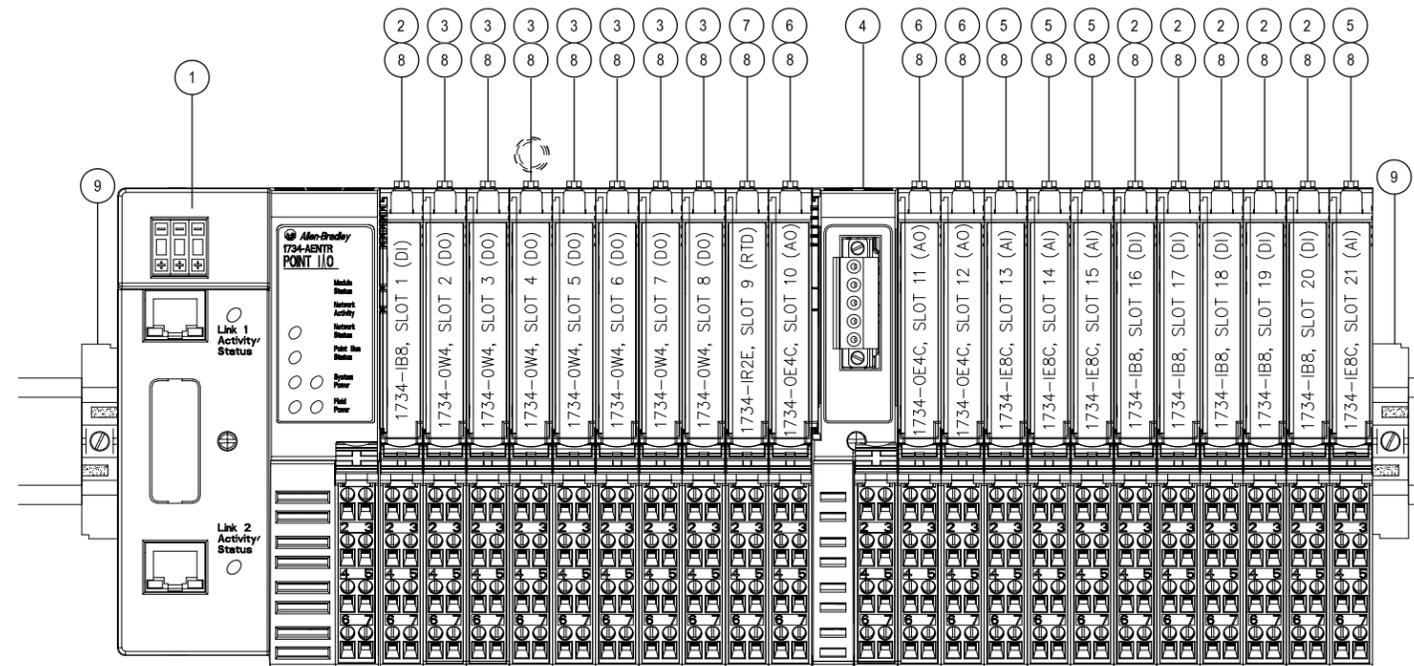
DWG. NO. D-9567-N09-1102  
 REV 0

# SUBASSEMBLY #1 BILL OF MATERIAL

ASSEMBLY TYPE: ALLEN BRADLEY 1734 REMOTE I/O RACK

NUMBER REQUIRED: 1

ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	1	VENDOR	ALLEN BRADLEY	1734-AENT	MEDIA CONVERTER, 24VDC DUAL PORT ETHERNET/IP ADAPTER
2	6	VENDOR	ALLEN BRADLEY	1734-IB8	24VDC 8 DISCRETE INPUT SINKING MODULE (DI)
3	7	VENDOR	ALLEN BRADLEY	1734-OW4	24VDC 4 DISCRETE OUTPUT SOURCE MODULE (DO)
4	1	VENDOR	ALLEN BRADLEY	1734-EP24VDC	24VDC EXPANSION POWER SUPPLY
5	4	VENDOR	ALLEN BRADLEY	1734-IE8C	24VDC 8 CHANNEL HIGH DENSITY ANALOG CURRENT INPUT MODULE (AI)
6	3	VENDOR	ALLEN BRADLEY	1734-OE4C	24VDC 4 POINTS ANALOG CURRENT OUTPUT MODULE (AO)
7	1	VENDOR	ALLEN BRADLEY	1734-IR2E	HIGH RESOLUTION RTD INPUTS
8	21	VENDOR	ALLEN BRADLEY	1734-TOP	1734 MODULE BASE 2/REMOVEABLE IEC SCREW TERMINALS
9	2	VENDOR	ENTRELEC	0206 351.16	END STOP, BAM2 GREY
10	0	VENDOR	ALLEN BRADLEY	1734-EXT1	EXTENSION CABLE, 1 METER LENGTH



**REVISED**  
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NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	BY	DATE
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								CHK: AMP	01/03/24
								APP: MSA	01/04/24
								AFE No.	
								S&L JOB NO.	A15188.001
								PROJ. ENGR:	MSA
								SCALE:	NTS
0		04/16/24		ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA		



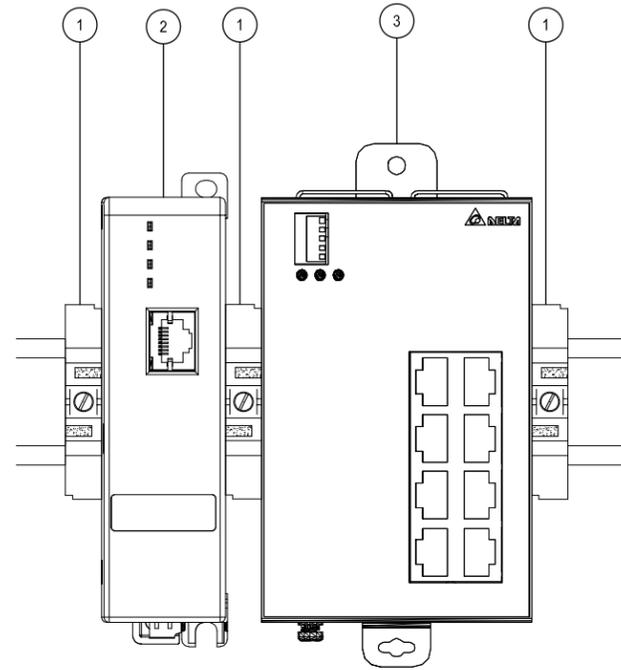
**BIG LAKE FACILITY**  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100 REMOTE I/O RACK # SUBASSEMBLY  
SUBASSEMBLY SHEET 1 OF 11  
REAGAN COUNTY, TEXAS

DWG. NO.	D-9567-N09-1111	REV	0
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**SUBASSEMBLY #11 BILL OF MATERIAL**

NUMBER REQUIRED: 1

ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	4	VENDOR	ENTRELEC	206 351.16	END STOP, BAM2 GREY
2	1	VENDOR	ROCKWELL	1783-ETAP	EMBEDDED EHERNET / IP SWITCH, 3 COPPER
3	1	VENDOR	DELTA	DVS-008W01	8-PORT UNMANAGED EHERNET SWITCH



NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS				ENGINEERING RECORD		
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
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								DES: ARC 01/02/24
								CHK: AMP 01/03/24
								APP: MSA 01/04/24
								AFE No.
								S&L JOB NO. A15188.001
								PROJ. ENGR: MSA
								SCALE: NTS
0		04/16/24		ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA	

**CANES**  
MIDSTREAM

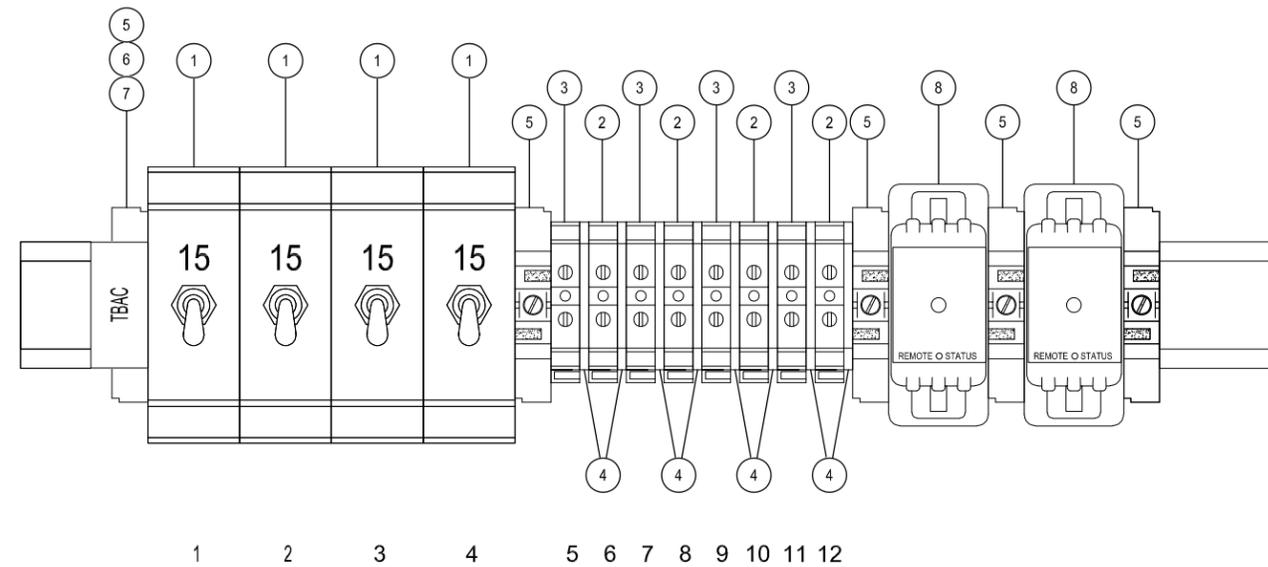
BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100 ETAP1 & FIBER BREAK OUT BOX ASSEMBLY  
SUBASSEMBLY SHEET 2 OF 11  
REAGAN COUNTY, TEXAS

DWG. NO. **D-9567-N09-1112** REV **0**

ENGRAVED MARKER SCHEDULE				
ASSEMBLY	ENGRAVED TEXT LINE 1	ENGRAVED TEXT LINE 2	TEXT HEIGHT	
			LINE 1	LINE 2
1	TBAC		3/16"	1/8"

TERMINAL BLOCK MARKER BOM				
TB STYLE	MARKER LOCATION	MARKER STYLE	ENTRELEC PART #	MARKER IMPRINT
M6/8	SIDE	RC810	234 002.20	#1-10

SUBASSEMBLY #2 BILL OF MATERIAL					
ASSEMBLY TYPE: AC POWER DISTRIBUTION					
NUMBER REQUIRED: 1					
ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	4	VENDOR	CURRIER & ROSER	CRI-APBM-15-AC	CIRCUIT BREAKER, 15 AMP, 120VAC, AIRPAX CLASS 1 DIVISION 2 BREAKER, IN DIN RAIL MOUNTABLE ENTRELEC HOUSING
2	4	VENDOR	ENTRELEC	125 118.13	TERMINAL BLOCK, M6/8.N, BLUE
3	4	VENDOR	ENTRELEC	105 004.22	TERMINAL BLOCK, M6/8, ORANGE
4	8	VENDOR	ENTRELEC	118 368.16	END SECTION, FEM6, GREY
5	5	VENDOR	ENTRELEC	0206 351.16	END STOP, BAM2 GREY
6	1	VENDOR	ENTRELEC	113 077.11	TERMINAL BLOCK MARKER HOLDER, PEB
7	1	VENDOR	ENTRELEC	173 812.13	TERMINAL BLOCK MARKER, ENGRAVABLE, WHITE ON BLACK, PIB
8	2	VENDOR	BUSSMAN	TVS120ACD	SURGE SUPPRESSOR, 120VAC



MARKER AND LABEL SCHEDULE													
POSITION #		1	2	3	4	5	6	7	8	9	10	11	12
TOP SIDE	END STOP W/ MARKER					1	2	3	4	5	6	7	8
CIRCUIT BREAKER LABEL (NOTE 1)		CB-1	CB-2	CB-3	CB-4	END STOP							END STOP
BOTTOM SIDE							1	2	3	4	5	6	7

NOTES:  
 1. PANEL VENDOR SHALL PROVIDE AND INSTALL CUSTOM PRINTED LABELS FOR THE CIRCUIT BREAKERS.

**REVISED**  
 APRIL 16, 2024  
 FOR CONSTRUCTION

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**CANES**  
 MIDSTREAM

BIG LAKE FACILITY  
 200 MMSCFD GAS PROCESSING PLANT  
 RIO-1100 AC POWER SUBASSEMBLY  
 SUBASSEMBLY SHEET 3 OF 11  
 REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N09-1121  
 REV 0

### SUBASSEMBLY #3 BILL OF MATERIAL

ASSEMBLY TYPE: DC POWER BREAKERS AND REDUNDANCY DIODE

NUMBER REQUIRED: 1

ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	25	VENDOR	ENTRELEC	115 647.23	FUSED DUAL DECK TERMINAL BLOCK, M4/8.D2.SFD, 24VDC LED, GREY
2	3	VENDOR	ENTRELEC	105.031.14	TERMINAL BLOCK, M4/6, BLACK
3	2	VENDOR	CURRIER & ROSER	CRI-APBM-10-FM	CIRCUIT BREAKER, 10 AMP, 24VDC, AIRPAX CLASS 1 DIVISION 2 BREAKER, IN DIN RAIL MOUNTABLE ENTRELEC HOUSING
4	1	VENDOR	PHOENIX	2938963	REDUNDANCY DIODE MODULE, QUINT-DIODE/40
5	1	VENDOR	BUSSMAN	TVS24DCD	SURGE SUPPRESSOR, 24VDC, DIN RIAL MOUNT
6	6	VENDOR	ENTRELEC	0206 351.16	END STOP, BAM2 GREY
7	2	VENDOR	ENTRELEC	113 077.11	TERMINAL BLOCK MARKER HOLDER, PEB
8	2	VENDOR	ENTRELEC	173 812.13	TERMINAL BLOCK MARKER, ENGRAVABLE, WHITE ON BLACK, PIB
9	3	VENDOR	ENTRELEC	116 913.07	END SECTION, FEM8D2S, GREY

### ENGRAVED MARKER SCHEDULE

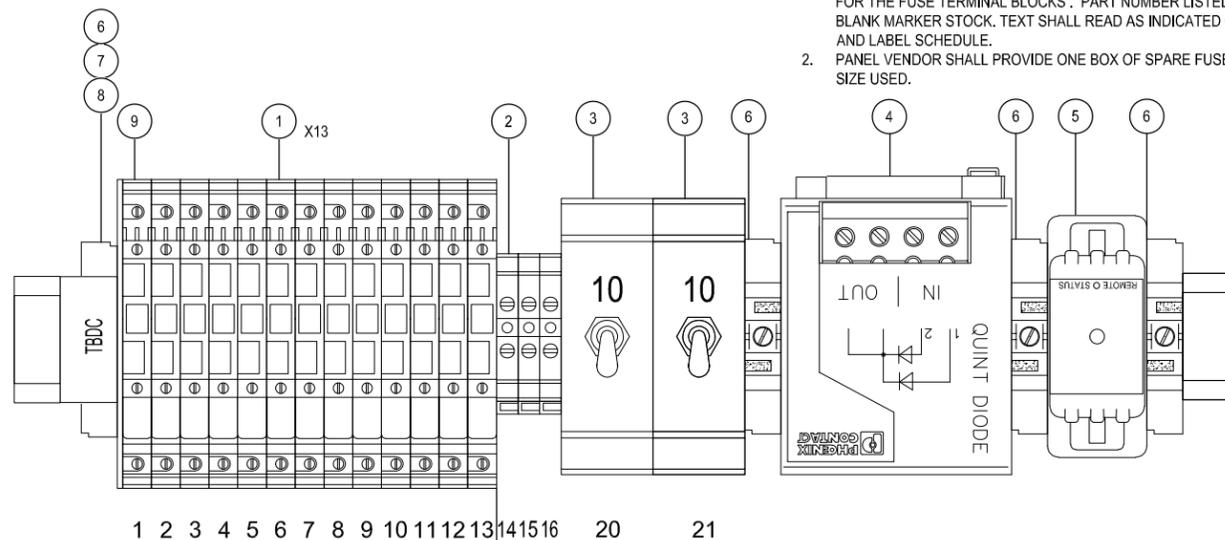
ASSEMBLY	ENGRAVED TEXT LINE 1	ENGRAVED TEXT LINE 2	TEXT HEIGHT	
			LINE 1	LINE 2
1	TBDC		3/16"	1/8"
2	TBDC-2		3/16"	1/8"

### TERMINAL BLOCK MARKER BOM

TB STYLE	MARKER LOCATION	MARKER STYLE	ENTRELEC PART #	MARKER IMPRINT
M4/6	SIDE	RC610	233 030.26	#1-50
M4/6	SIDE	RC610	233 112.11	-
M4/8.SFD	GRIP	RC610	233 000.01	(NOTE 1)
M4/8.SFD	GRIP	RC610	233 111.10	+

NOTES:

- PANEL VENDOR SHALL PROVIDE AND INSTALL CUSTOM PRINTED LABELS FOR THE FUSE TERMINAL BLOCKS. PART NUMBER LISTED IN BOM IS FOR BLANK MARKER STOCK. TEXT SHALL READ AS INDICATED ON THE MARKER AND LABEL SCHEDULE.
- PANEL VENDOR SHALL PROVIDE ONE BOX OF SPARE FUSES FOR EACH SIZE USED.



### (TBDC) MARKER AND LABEL SCHEDULE

POSITION #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	20	21
LEFT SIDE	1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12-	13-	-	-	-	20	21
LEFT GRIP	F1	F2	F3	F4	F5	F5	F7	F8	F8	F10	F11	F12	F13					
CIRCUIT BREAKER LABEL (NOTE 3)																	CB-1	CB-2
RIGHT GRIP																		
RIGHT SIDE	1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12-	13-	-	-	-		

- NOTES:  
3. PANEL VENDOR SHALL PROVIDE AND INSTALL CUSTOM PRINTED LABELS FOR THE CIRCUIT BREAKERS.

### SUBASSEMBLY #4 BILL OF MATERIAL

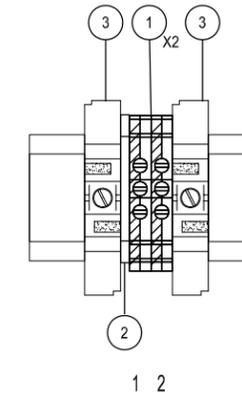
ASSEMBLY TYPE: ISOLATED DIN RAIL GROUNDING TERMINAL BLOCKS

NUMBER REQUIRED: 4

ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	2	VENDOR	ENTRELEC	165 113.16	GROUND TERMINAL, M4/6.P, GREEN/YELLOW, SCREW CLAMP
2	1	VENDOR	ENTRELEC	103 062.21	END SECTION, FEM6, YELLOW
3	2	VENDOR	ENTRELEC	206 351.16	END STOP, BAM2 GREY

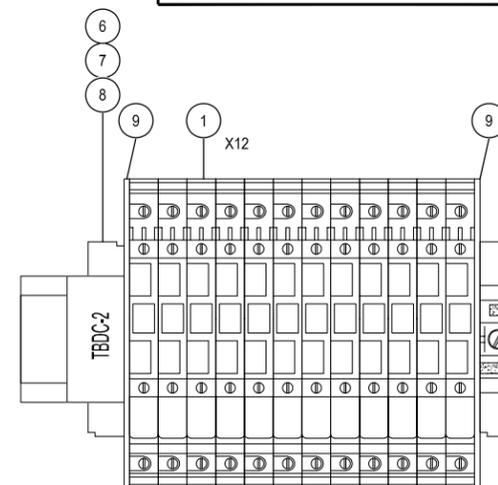
### TERMINAL BLOCK MARKER BOM

TB STYLE	MARKER LOCATION	MARKER STYLE	ENTRELEC PART #	MARKER IMPRINT
M4/6.P	SIDE	RC610	233 115.14	↓



### TERMINAL BLOCK MARKER SCHEDULE

POSITION #	END STOP W/MARKER	1	2	END STOP
RIGHT SIDE		↓	↓	
LEFT SIDE		↓	↓	



### (TBDC-2) MARKER AND LABEL SCHEDULE

POSITION #	17	18	19	20	21	22	23	24	25	26	27	28
LEFT SIDE	17-	18-	19-	20-	21-	22-	23-	24-	25-	26-	27-	28-
LEFT GRIP	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
CIRCUIT BREAKER LABEL (NOTE 3)												
RIGHT GRIP												
RIGHT SIDE	17-	18-	19-	20-	21-	22-	23-	24-	25-	26-	27-	28-

NOTES:

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PROJ. ENGR:	MSA		
SCALE:	NTS		



BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100 DC CIRCUIT BREAKER/PWR. TERM. BLK. SUBASSEMBLY  
SUBASSEMBLY SHEET 4 OF 11  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N09-1122  
REV B

# SUBASSEMBLY #11 BILL OF MATERIAL

ASSEMBLY TYPE: ESD TERMINAL BLOCKS

NUMBER REQUIRED: 1

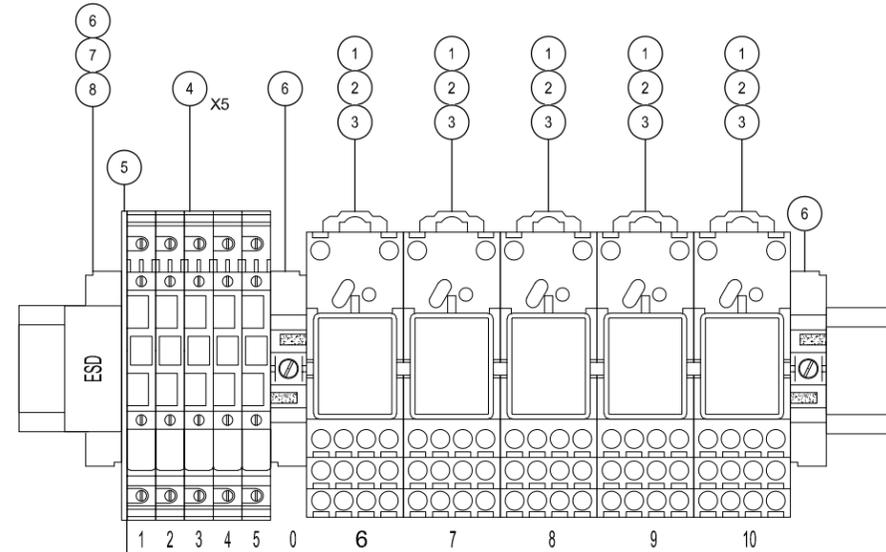
ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	5	VENDOR	MAGNACRAFT	782DXH21-24D	RELAY, 24VDC, 5 AMP, 4PDT, WITH HERMETICALLY SEALED COVER
2	5	VENDOR	MAGNACRAFT	70-782EL14-1	RELAY SOCKET, 14 PIN, 10AMP, 300 VOLT, LOGICAL ARRANGEMENT
3	5	VENDOR	MAGNACRAFT	70-BSMLG-24	RELAY LED STATUS MODULE, 24VDC
4	5	VENDOR	ENTRELEC	115 647.23	FUSED DUAL DECK TERMINAL BLOCK, M4/8.D2.SFD, 24VDC LED, GREY
5	1	VENDOR	ENTRELEC	118 913.07	END SECTION, FEM8D2S, GREY
6	3	VENDOR	ENTRELEC	206 351.16	END STOP, BAM2 GREY
7	1	VENDOR	ENTRELEC	113 077.11	TERMINAL BLOCK MARKER HOLDER, PEB
8	1	VENDOR	ENTRELEC	173 812.13	TERMINAL BLOCK MARKER, ENGRAVABLE, WHITE ON BLACK, PIB

## ENGRAVED MARKER SCHEDULE

ASSEMBLY	ENGRAVED TEXT LINE 1	ENGRAVED TEXT LINE 2	TEXT HEIGHT	
			LINE 1	LINE 2
1	ESD		3/16"	1/8"

## TERMINAL BLOCK MARKER BOM

TB STYLE	MARKER LOCATION	MARKER STYLE	ENTRELEC PART #	MARKER IMPRINT
M4/6	SIDE	RC610	233 030.26	#1-100



## MARKER AND LABEL SCHEDULE

POSITION #	1	2	3	4	5
TOP SIDE	1-	2-	3-	4-	5-
TOP GRIP	F1	F2	F3	F4	F5
BOTTOM GRIP					
BOTTOM SIDE	1-	2-	3-	4-	5-

## RELAY LABEL SCHEDULE

POSITION #	6	7	8	9	10
RELAY LABEL ON BASE	END STOP	86P2R1M	86P2R1S1	86P2R1S2	86P2R1S3
				SPARE	END STOP

NOTES:

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400 Inverness Parkway, #200  
 Englewood, CO 80112  
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S&L JOB NO.	A15188.001	
PROJ. ENGR:	MSA	
SCALE:	NTS	



BIG LAKE FACILITY  
 200 MMSCFD GAS PROCESSING PLANT  
 RIO-1100 ESD TERMINAL BLOCK SUBASSEMBLY  
 SUBASSEMBLY SHEET 5 OF 11  
 REAGAN COUNTY, TEXAS

DWG. NO.	D-9567-N09-1124	REV	A
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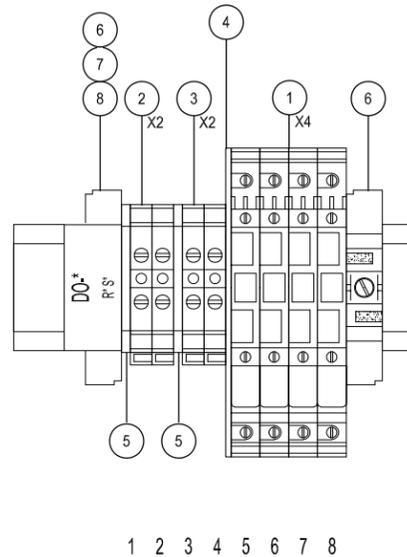


ENGRAVED MARKER SCHEDULE				
ASSEMBLY	ENGRAVED TEXT LINE 1	ENGRAVED TEXT LINE 2	TEXT HEIGHT	
			LINE 1	LINE 2
1	DO-1	R1100 S02	3/16"	1/8"
2	DO-2	R1100 S03	3/16"	1/8"
3	DO-3	R1100 S04	3/16"	1/8"
4	DO-4	R1100 S05	3/16"	1/8"
5	DO-5	R1100 S06	3/16"	1/8"
6	DO-6	R1100 S10	3/16"	1/8"
7	DO-7	R1100 S15	3/16"	1/8"

TERMINAL BLOCK MARKER BOM				
TB STYLE	MARKER LOCATION	MARKER STYLE	ENTRELEC PART #	MARKER IMPRINT
M4/8.D2.SFD	GRIP	RC610	233 060.04	#1-100
M4/8.D2.SFD	GRIP	RC610	233 111.10	+
M4/8.D2.SFD	GRIP	RC610	233 240.15	#0

TERMINAL BLOCK SUBASSEMBLY #6 BILL OF MATERIAL					
ASSEMBLY TYPE: DISCRETE OUTPUT TERMINAL BLOCKS					
NUMBER REQUIRED: 7					
ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	4	VENDOR	ENTRELEC	115 647.23	FUSED DUAL DECK TERMINAL BLOCK, M4/8.D2.SFD, 24VDC LED, GREY
2	2	VENDOR	ENTRELEC	105 032.15	TERMINAL BLOCK, M4/6, RED
3	2	VENDOR	ENTRELEC	105 031.14	TERMINAL BLOCK, M4/6, BLACK
4	1	VENDOR	ENTRELEC	116 913.07	END SECTION, FEM8D2S, GREY
5	2	VENDOR	ENTRELEC	118 368.16	END SECTION, FEM6, GREY
6	2	VENDOR	ENTRELEC	206 351.16	END STOP, BAM2, GREY
7	1	VENDOR	ENTRELEC	113 077.11	TERMINAL BLOCK MARKER HOLDER, PEB
8	1	VENDOR	ENTRELEC	173 812.13	TERMINAL BLOCK MARKER, ENGRAVABLE, WHITE ON BLACK, PIB

NOTE: REPLACE \*\*\* ON TERMINAL BLOCK ASSEMBLY MARKER WITH SEQUENCE NUMBER SHOWN ON THE ENGRAVED MARKER SCHEDULE.



TERMINAL BLOCK MARKERS								
POSITION #	1	2	3	4	5	6	7	8
RIGHT SIDE								
RIGHT GRIP	+	+	-	-	0	1	2	3
LEFT GRIP	+	+	-	-	+	+	+	+
LEFT SIDE								

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE	REVISIONS			ENGINEERING RECORD		
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	BY	DATE	
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								PROJ. ENGR:	MSA	
								SCALE:	NTS	


**CANES MIDSTREAM**

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100 DISCRETE OUTPUT TERM.BLK. SUBASSEMBLY  
SUBASSEMBLY SHEET 7 OF 11  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N09-1132  
REV 0



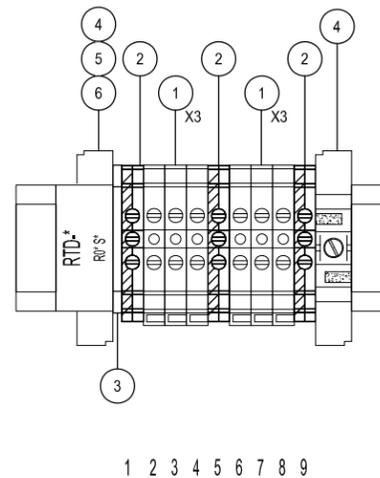


ENGRAVED MARKER SCHEDULE				
ASSEMBLY	ENGRAVED TEXT LINE 1	ENGRAVED TEXT LINE 2	TEXT HEIGHT	
			LINE 1	LINE 2
1	RTD-1	R1100 S07	3/16"	1/8"

NOTE: REPLACE "" ON TERMINAL BLOCK ASSEMBLY MARKER WITH SEQUENCE NUMBER, AND "#" WITH SLOT NUMBER SHOWN ON THE ENGRAVED MARKER SCHEDULE.

TERMINAL BLOCK MARKER BOM				
TB STYLE	MARKER LOCATION	MARKER STYLE	ENTRELEC PART #	MARKER IMPRINT
M4/6	SIDE	RC610	233 030.26	#1-100
M4/6.P	SIDE	RC610	233 115.14	↓
M4/6.P	SIDE	RC610	233 198.20	S

SUBASSEMBLY #10 BILL OF MATERIAL					
ASSEMBLY TYPE: RTD INPUT TERMINAL BLOCKS					
NUMBER REQUIRED: 1					
ITEM	QTY	PROVIDED BY	MFG	CAT/MODEL #	DESCRIPTION
1	6	VENDOR	ENTRELEC	115.116.07	TERMINAL BLOCK, M4/6, GREY
2	3	VENDOR	ENTRELEC	165 113.16	GROUND TERMINAL, M4/6.P, GREEN/YELLOW, SCREW CLAMP
3	1	VENDOR	ENTRELEC	103 062.21	END SECTION, FEM6, YELLOW
4	2	VENDOR	ENTRELEC	0206 351.16	END STOP, BAM2 GREY
5	1	VENDOR	ENTRELEC	113 077.11	TERMINAL BLOCK MARKER HOLDER, PEB
6	1	VENDOR	ENTRELEC	173 812.13	TERMINAL BLOCK MARKER, ENGRAVABLE, WHITE ON BLACK, PIB



MARKER AND LABEL SCHEDULE											
POSITION #		1	2	3	4	5	6	7	8	9	
LEFT SIDE	END STOP W/ MARKER	↓	1	2	3	S	4	5	6	S	END STOP
RIGHT SIDE		↓	1	2	3	S	4	5	6	S	

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS				REVISIONS			ENGINEERING RECORD		
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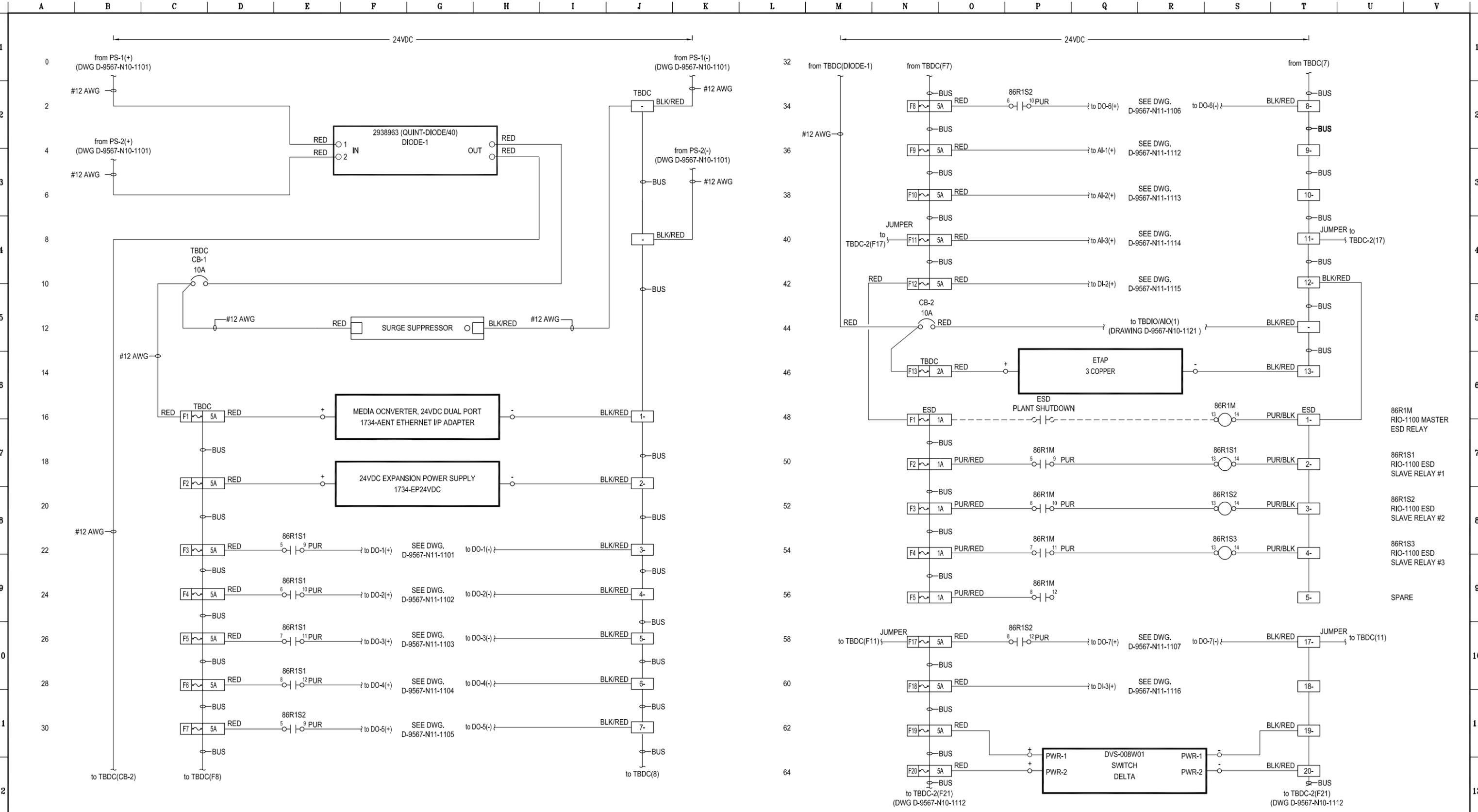
**CANES MIDSTREAM**

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100 RTD INPUT TERMINAL BLOCK SUBASSEMBLY  
SUBASSEMBLY SHEET 10 OF 11  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N09-1135  
REV 0







NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

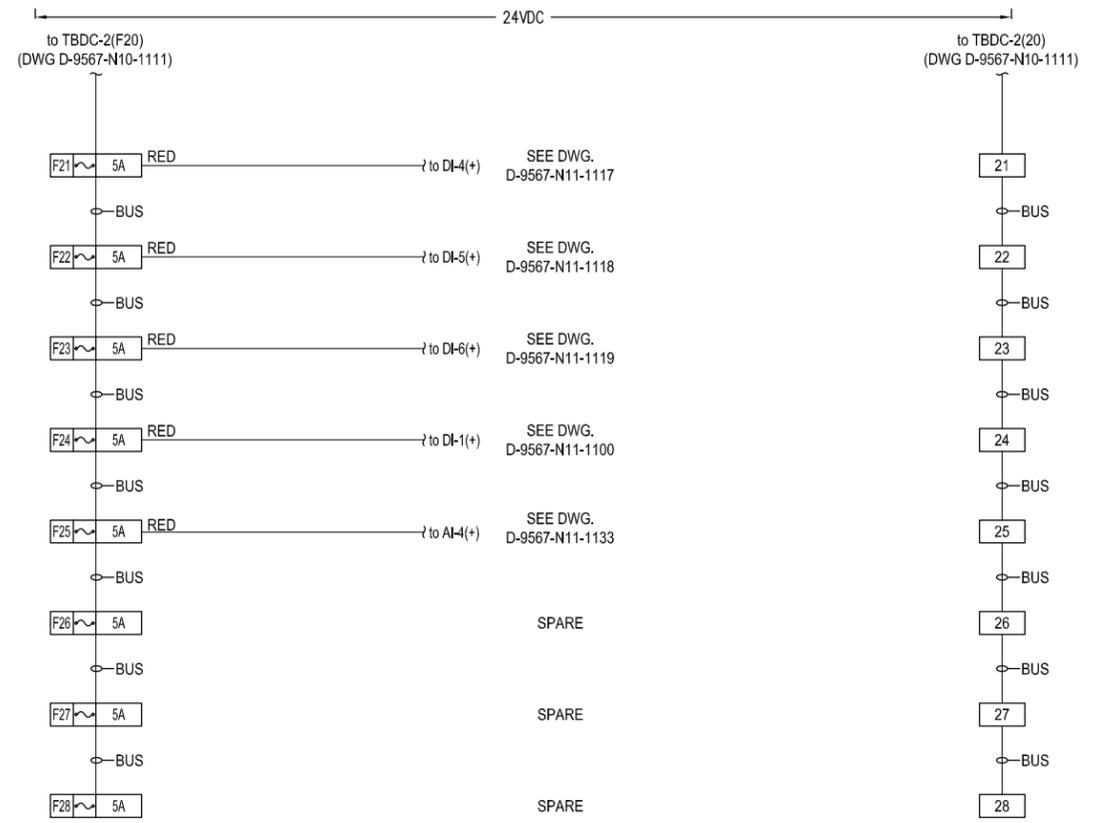
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0	04/16/24	ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA				

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
RIO-1100 DC POWER WIRING SCHEMATIC  
SHEET 2 OF 3  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N10-1111

REV 0



**REVISED**  
 APRIL 16, 2024  
**FOR CONSTRUCTION**

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**BIG LAKE FACILITY**  
 200 MMSCFD GAS PROCESSING PLANT  
 RIO-1100 DC POWER WIRING SCHEMATIC  
 SHEET 3 OF 3  
 REAGAN COUNTY, TEXAS

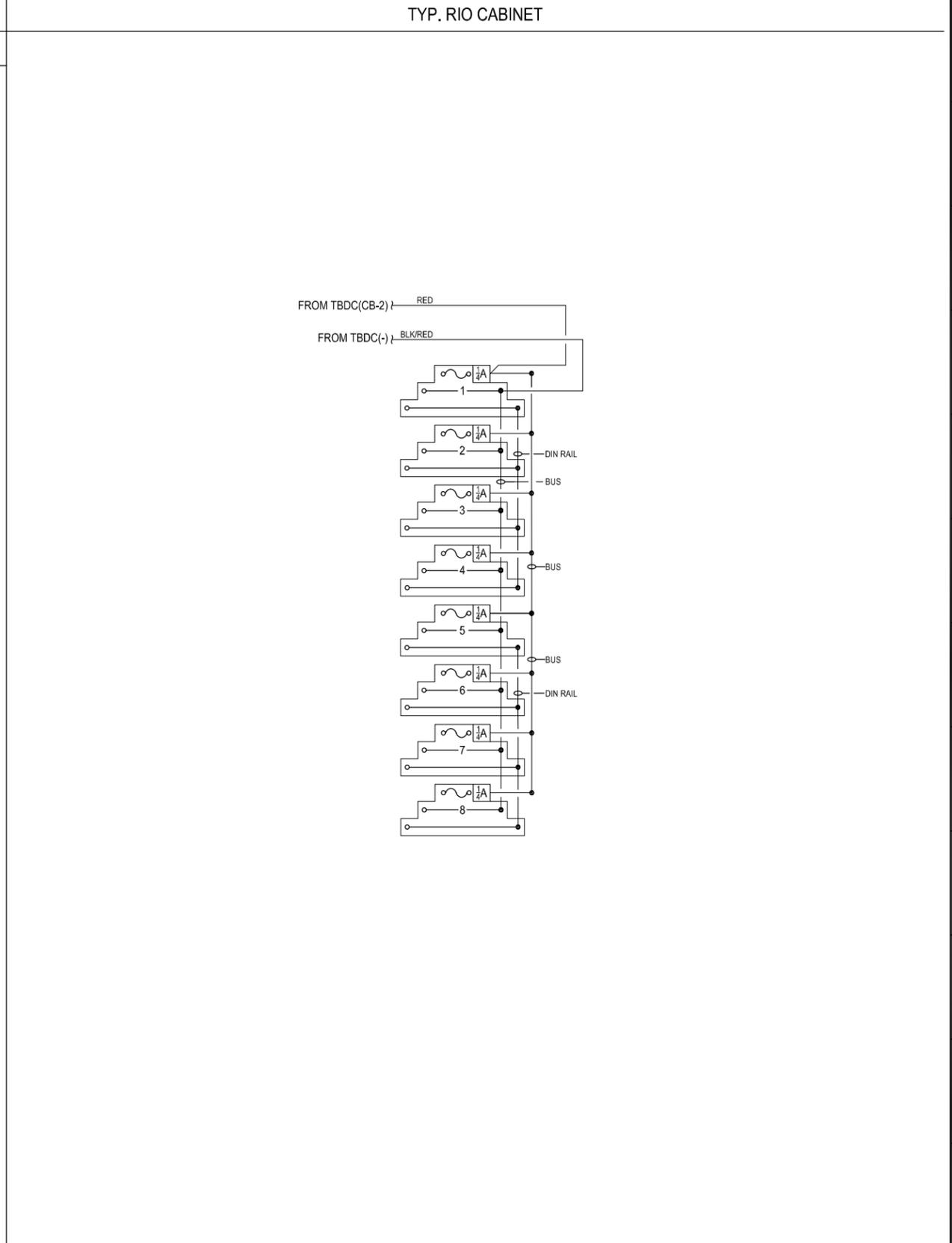
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FIELD DEVICE

FIELD JUNCTION BOX



NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE	
NO.	TITLE				

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APP:	MSA	01/04/24
AFE No.		
S&L JOB NO.	A15188.001	
PROJ. ENGR:	MSA	
SCALE:	NTS	



BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
TYP RIO DISCRETE AND ANALOG INSTRUMENT POWER

REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N10-1121

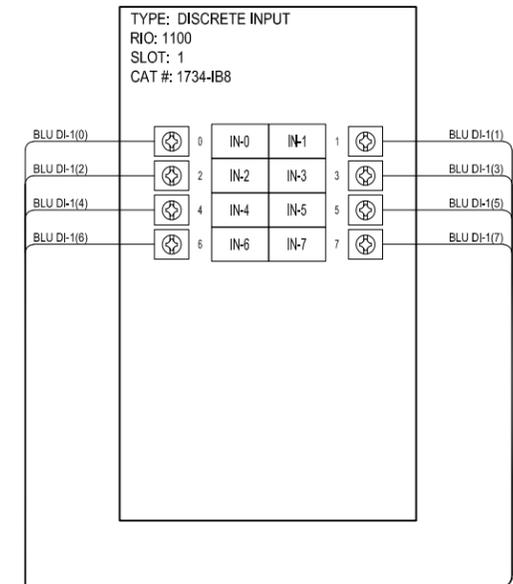
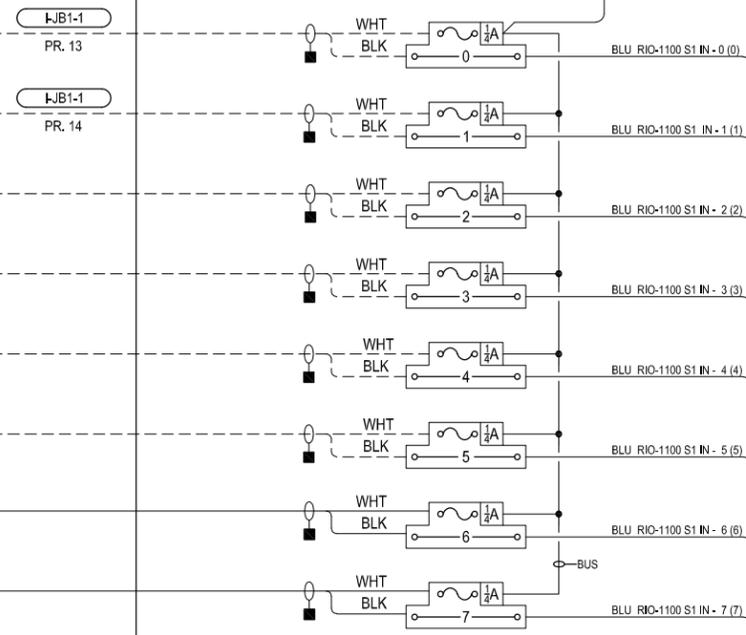
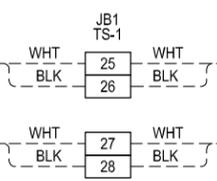
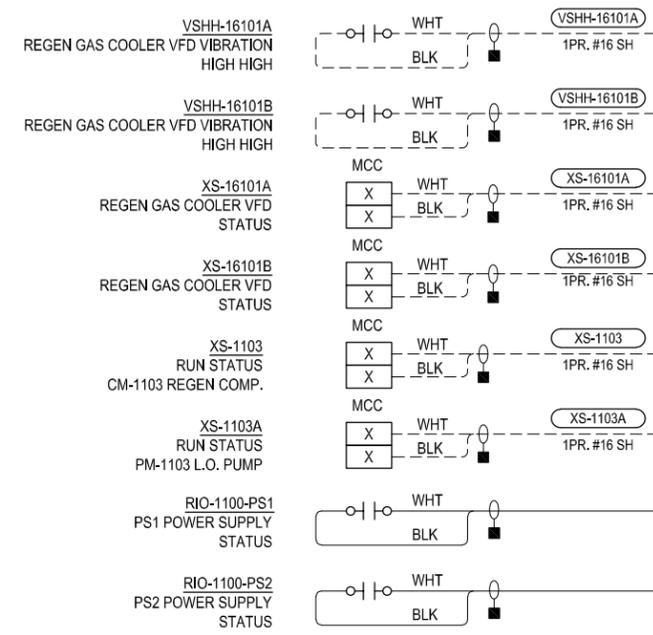
REV 0

FIELD

RIO CABINET

FIELD DEVICE / MCC STARTER

JUNCTION BOX



INPUTS 0-7

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE		DESCRIPTION		BY	CHK.	APP.
NO.	TITLE									

REVISIONS			ENGINEERING RECORD			
NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
0	04/16/24	ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA	

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE INPUT  
RIO-1100 SLOT 1  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1100  
REV 0

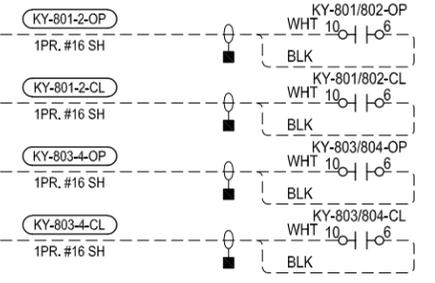
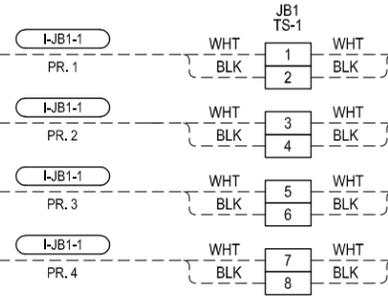
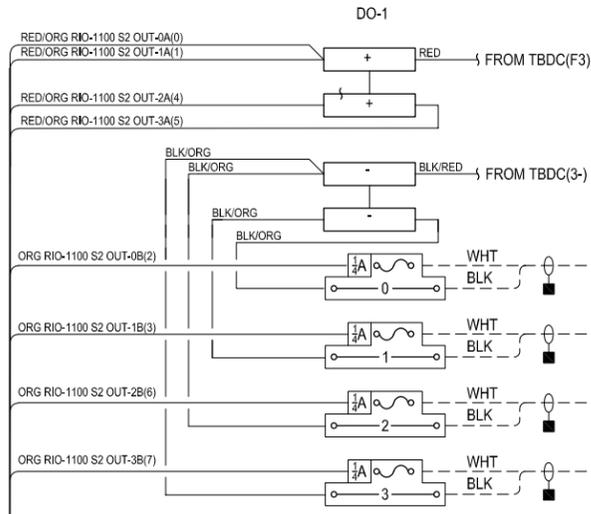
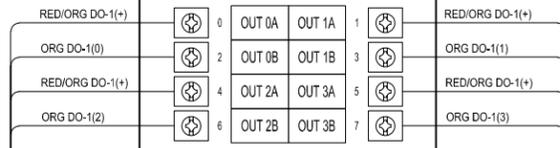
MAIN CABINET

FIELD

JUNCTION BOX

FIELD DEVICE / MCC STARTER

TYPE: DIGITAL OUTPUT  
RIO: 1100  
SLOT: 2  
CAT #: 1734-OB4



KY-801/802-OP  
INLET GAS DEHYDRATION INLET VALVE  
OPEN COMMAND

KY-801/802-CL  
INLET GAS DEHYDRATION INLET VALVE  
CLOSED COMMAND

KY-803/804-OP  
REGEN GAS TO INLET GAS DEHYDRATION  
VALVE OPEN COMMAND

KY-803/804-CL  
REGEN GAS TO INLET GAS DEHYDRATION  
VALVE CLOSED COMMAND

OUTPUTS 0-3

NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE	TITLE

REVISIONS				ENGINEERING RECORD		
NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
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DRN:	ARC	01/02/24
DES:	ARC	01/02/24
CHK:	AMP	01/03/24
APP:	MSA	01/04/24
AFE No.		
S&L JOB NO.	A15188.001	
PROJ. ENGR:	MSA	
SCALE:	NTS	

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE OUTPUT  
RIO-1100 SLOT 2  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1101  
REV 0

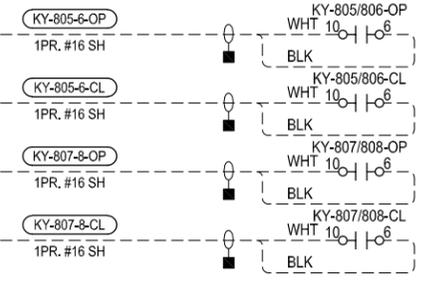
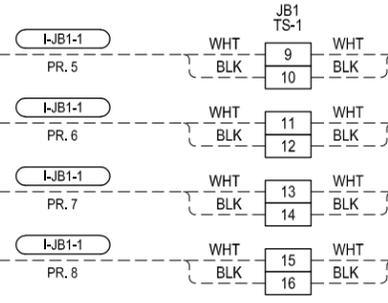
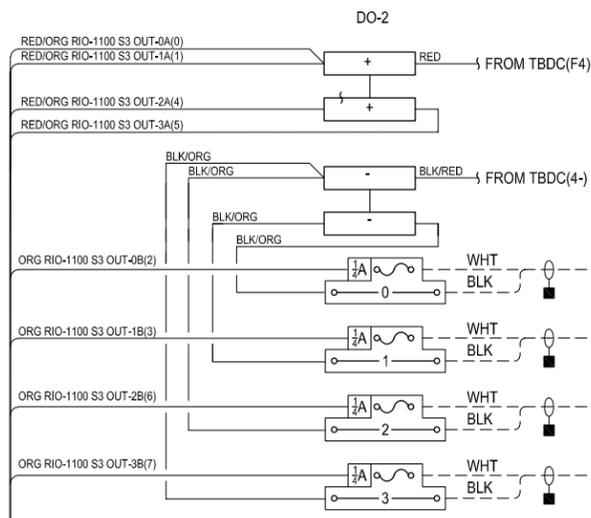
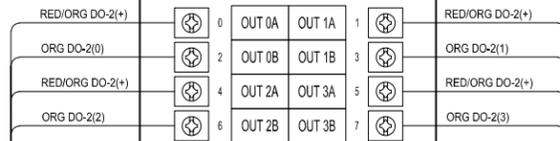
MAIN CABINET

FIELD

JUNCTION BOX

FIELD DEVICE / MCC STARTER

TYPE: DIGITAL OUTPUT  
RIO: 1100  
SLOT: 3  
CAT #: 1734-OB4



KY-805/806-OP  
INLET GAS DEHYDRATION INLET VALVE  
OPEN COMMAND

KY-805/806-CL  
INLET GAS DEHYDRATION INLET VALVE  
CLOSED COMMAND

KY-807/808-OP  
DEHYDRATION GAS DISCHARGE VALVE  
OPEN COMMAND

KY-807/808-CL  
DEHYDRATION GAS DISCHARGE VALVE  
CLOSED COMMAND

OUTPUTS 0-3

NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS			
NO.	TITLE	NO.	DATE	DESCRIPTION	BY
		0	04/16/24	ISSUED FOR CONSTRUCTION	RAJ

**Sargent & Lundy**  
400 Inverness Parkway, #200  
Englewood, CO 80112  
303.768.9191 Office  
303.768.9292 Fax

ENGINEERING RECORD		
BY	DATE	
DRN: ARC	01/02/24	
DES: ARC	01/02/24	
CHK: AMP	01/03/24	
APP: MSA	01/04/24	
AFE No.		
S&L JOB NO.	A15188.001	
PROJ. ENGR:	MSA	
SCALE:	NTS	



BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE OUTPUT  
RIO-1100 SLOT 3  
REAGAN COUNTY, TEXAS

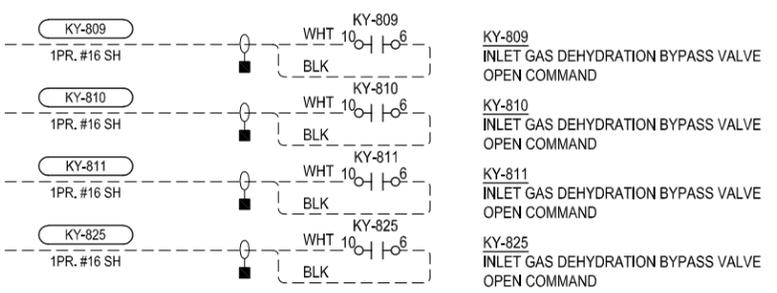
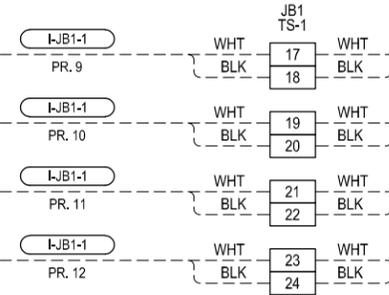
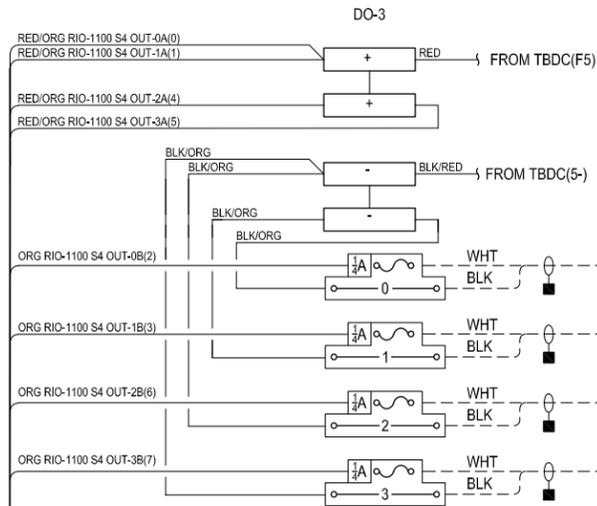
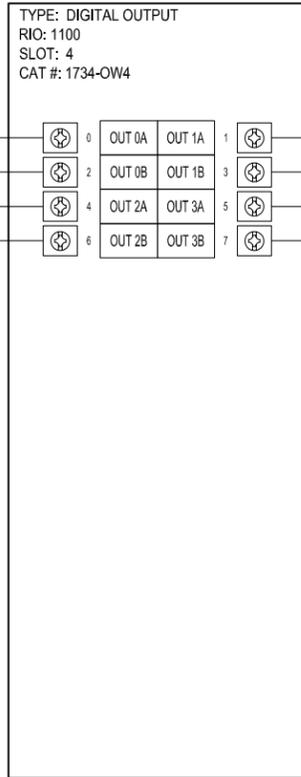
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REV 0

RIO CABINET

FIELD

JUNCTION BOX

FIELD DEVICE / MCC STARTER



OUTPUTS 0-3

NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE	TITLE

**Sargent & Lundy**  
400 Inverness Parkway, #200  
Englewood, CO 80112  
303.768.9191 Office  
303.768.9292 Fax

REVISIONS				ENGINEERING RECORD		
NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
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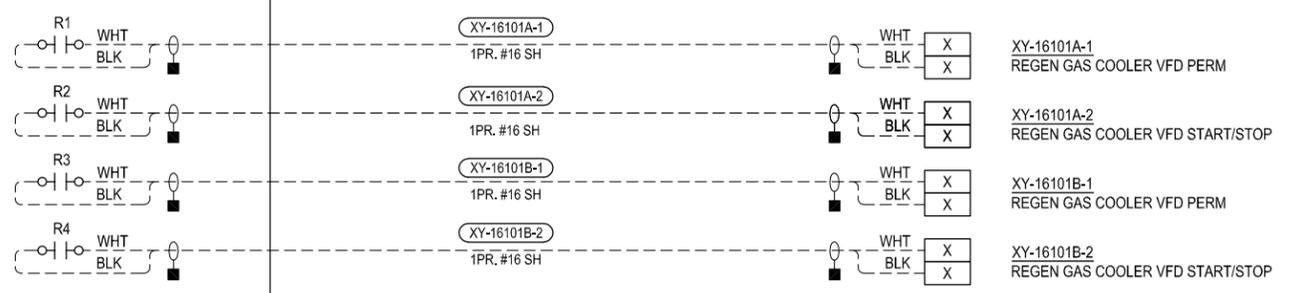
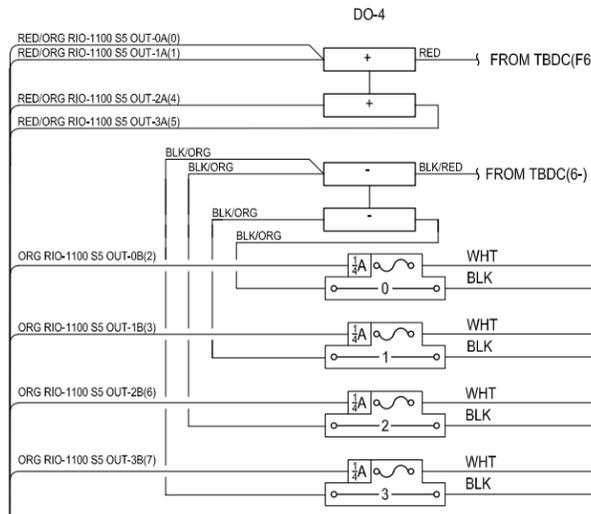
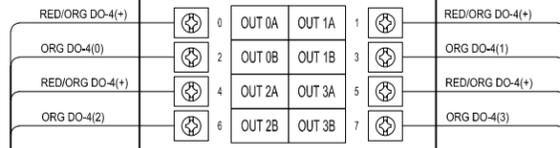
**BIG LAKE FACILITY**  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE OUTPUT  
RIO-1100 SLOT 4  
REAGAN COUNTY, TEXAS

DWG. NO. **D-9567-N11-1103** REV **0**

RIO CABINET

FIELD

TYPE: DIGITAL OUTPUT  
RIO: 1100  
SLOT: 5  
CAT #: 1734-OW4



OUTPUTS 0-3

NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

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NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
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**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE OUTPUT  
RIO-1100 SLOT 5  
REAGAN COUNTY, TEXAS

DWG. NO. **D-9567-N11-1104** REV **0**



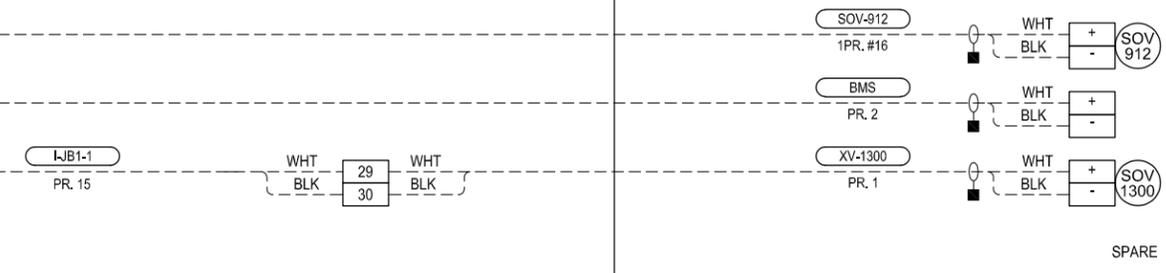
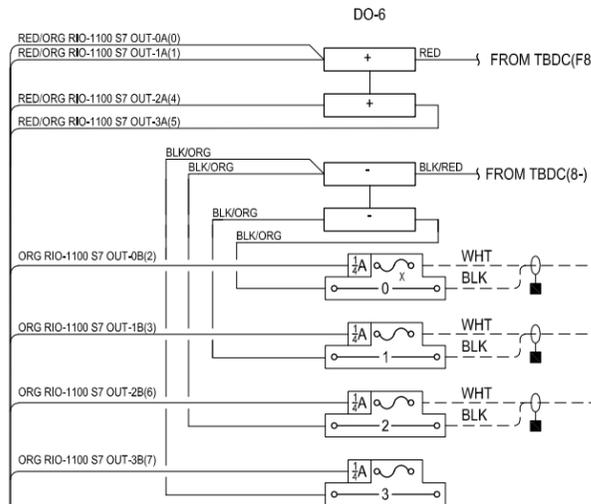
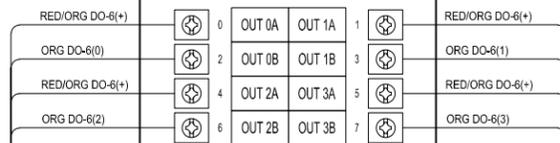
RIO CABINET

FIELD

JUNCTION BOX

FIELD DEVICE / MCC STARTER

TYPE: DIGITAL OUTPUT  
RIO: 1100  
SLOT: 7  
CAT #: 1734-OW4



OUTPUTS 0-3

NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS			
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ENGINEERING RECORD		
BY	DATE	APP.
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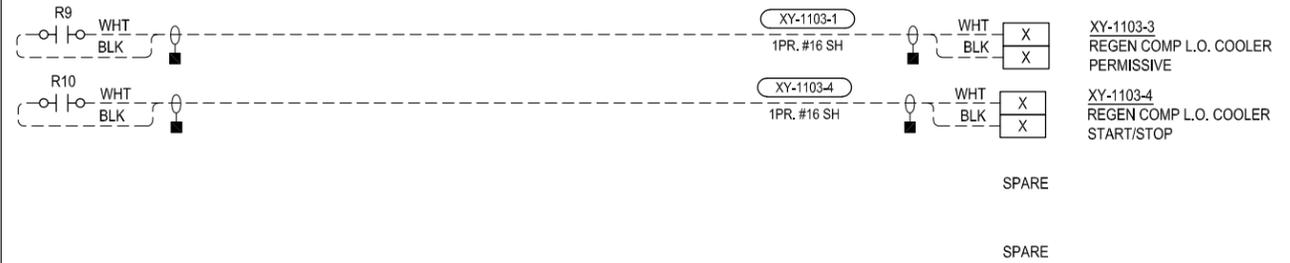
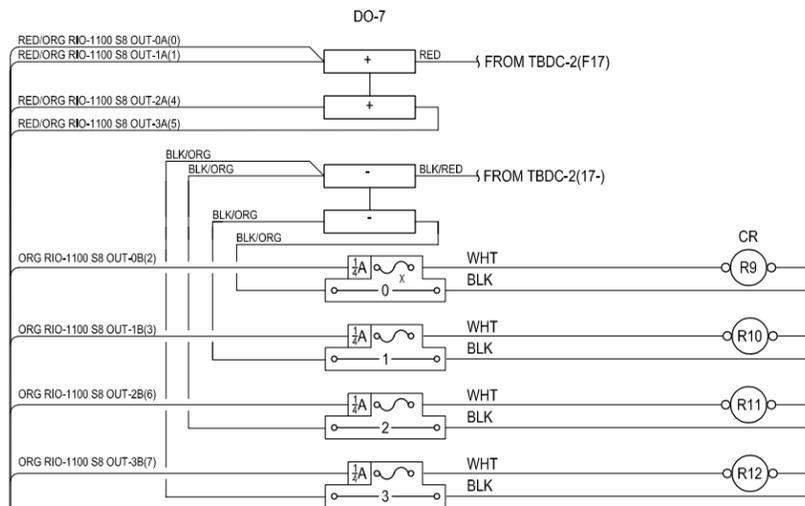
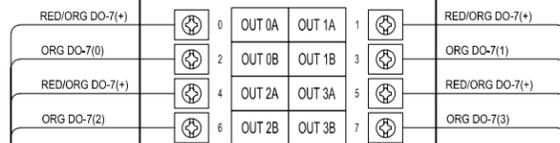
BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC ANALOG OUTPUT  
RIO-1100 SLOT 7  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1106  
REV 0

RIO CABINET

FIELD

TYPE: DIGITAL OUTPUT  
RIO: 1100  
SLOT: 8  
CAT #: 1734-OW4



OUTPUTS 0-3

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

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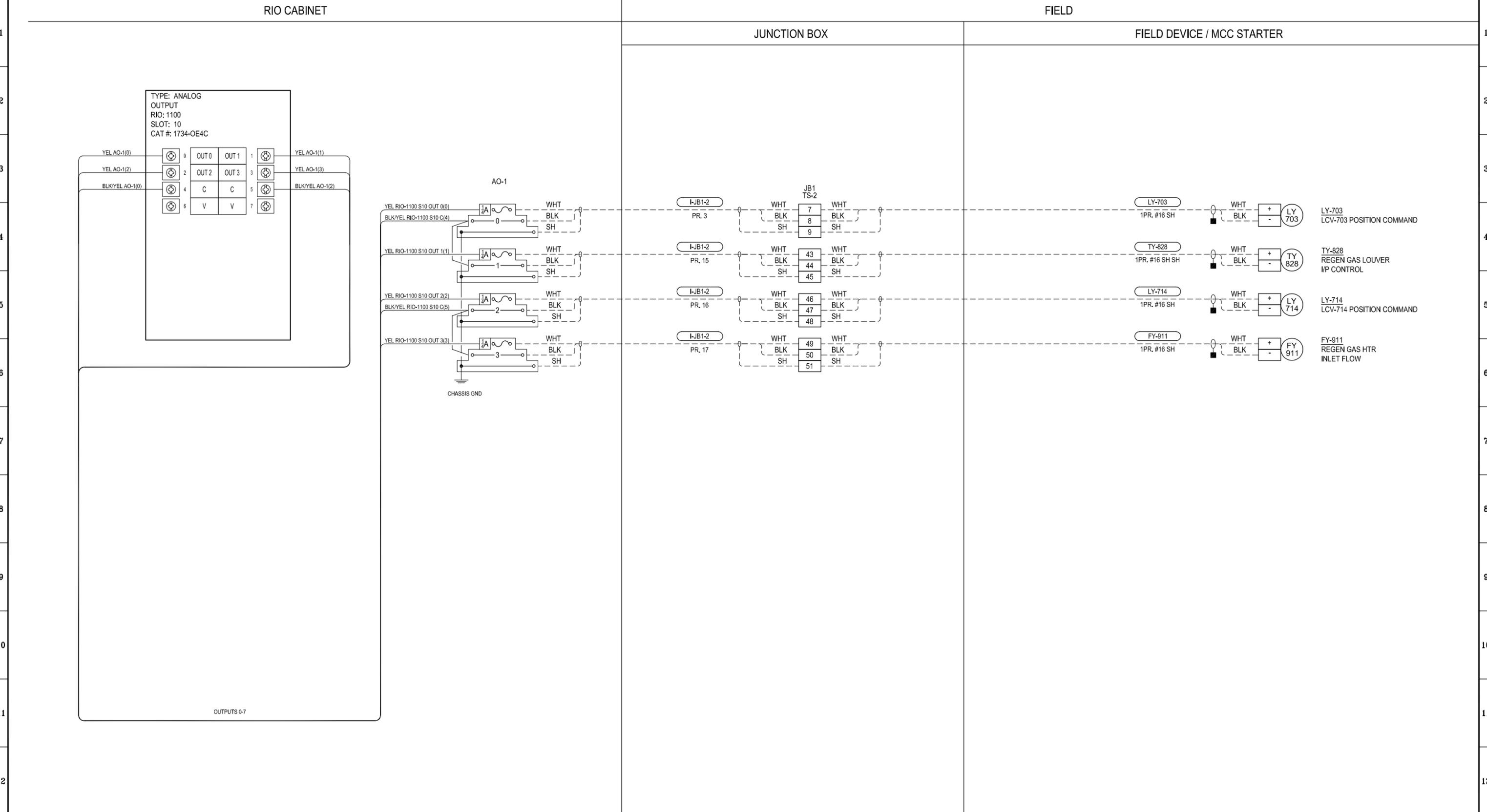
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NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
0	04/16/24	ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA	

ENGINEERING RECORD	
BY	DATE
DRN: ARC	01/02/24
DES: ARC	01/02/24
CHK: AMP	01/03/24
APP: MSA	01/04/24
AFE No.	
S&L JOB NO.	A15188.001
PROJ. ENGR:	MSA
SCALE:	NTS

**BIG LAKE FACILITY**  
200 MMSCFD GAS PROCESSING PLANT  
PLC DIGITAL OUTPUT  
RIO-1100 SLOT 8  
REAGAN COUNTY, TEXAS

DWG. NO. **D-9567-N11-1107** REV **0**





NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS				ENGINEERING RECORD		
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
0		04/16/24		ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA	

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC ANALOG OUTPUT  
RIO-1100 SLOT 10  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1109

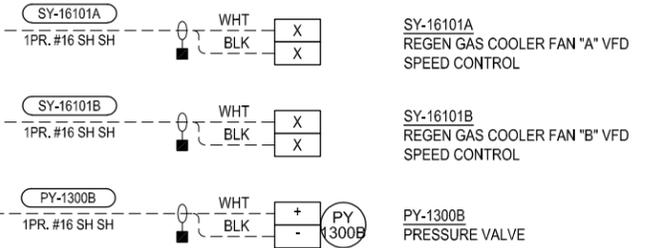
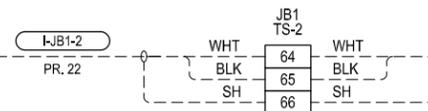
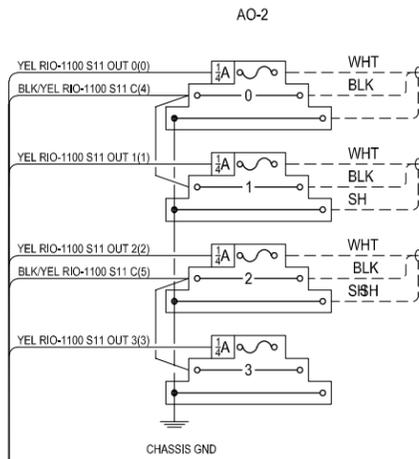
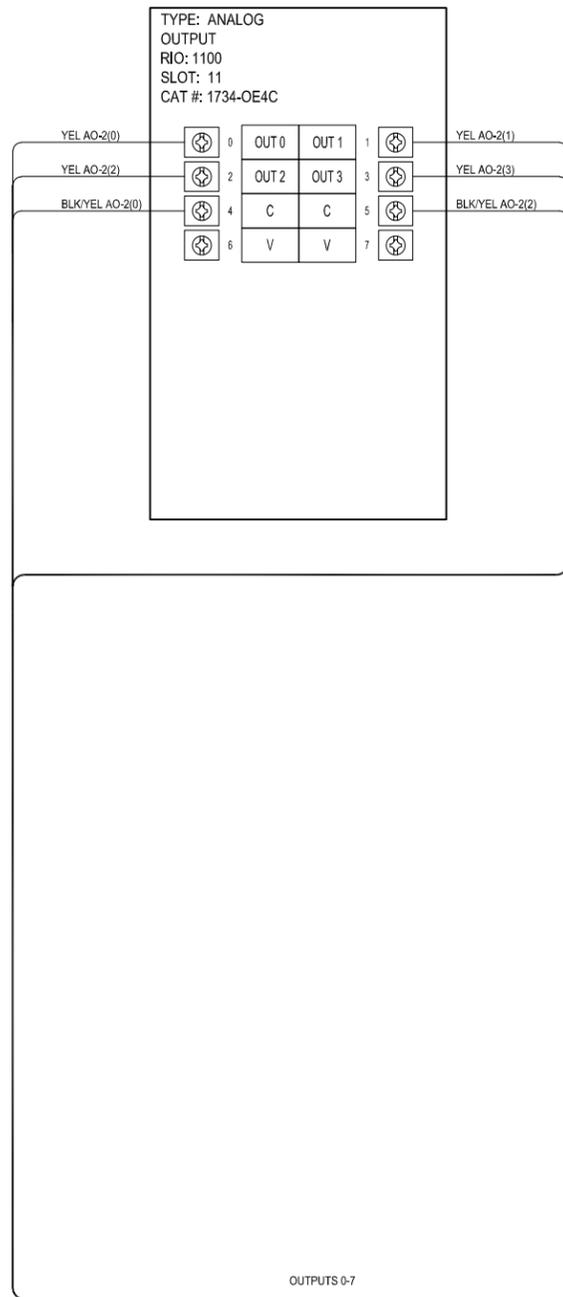
REV 0

RIO CABINET

FIELD

JUNCTION BOX

FIELD DEVICE / MCC STARTER



NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS		
NO.	TITLE	NO.	DATE	DESCRIPTION
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BY	DATE	
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AFE No.		
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PROJ. ENGR:	MSA	
SCALE:	NTS	

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC ANALOG OUTPUT  
RIO-1100 SLOT 11  
REAGAN COUNTY, TEXAS

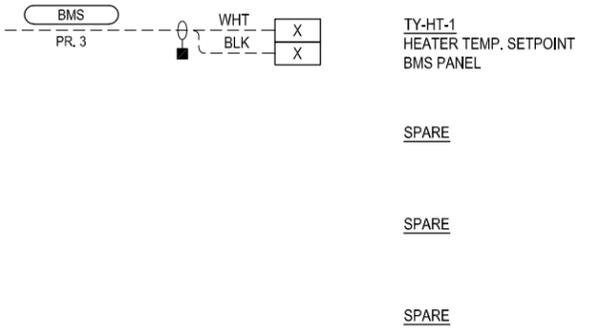
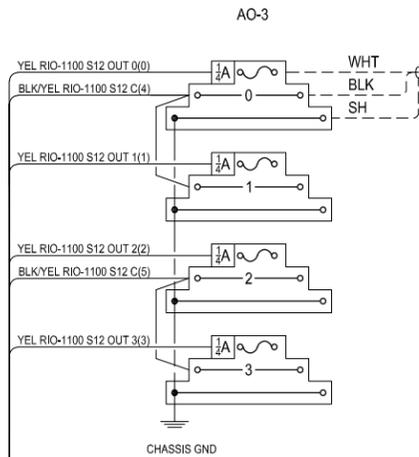
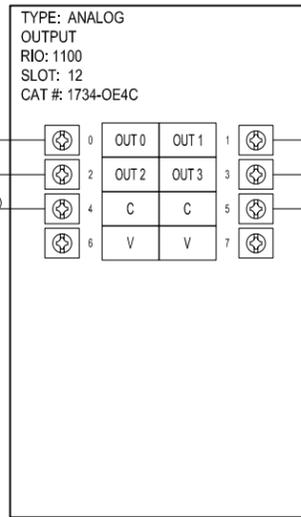
DWG. NO. D-9567-N11-1110  
REV 0

RIO CABINET

FIELD

JUNCTION BOX

FIELD DEVICE / MCC STARTER



OUTPUTS 0-7

NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS		
NO.	TITLE	NO.	DATE	DESCRIPTION
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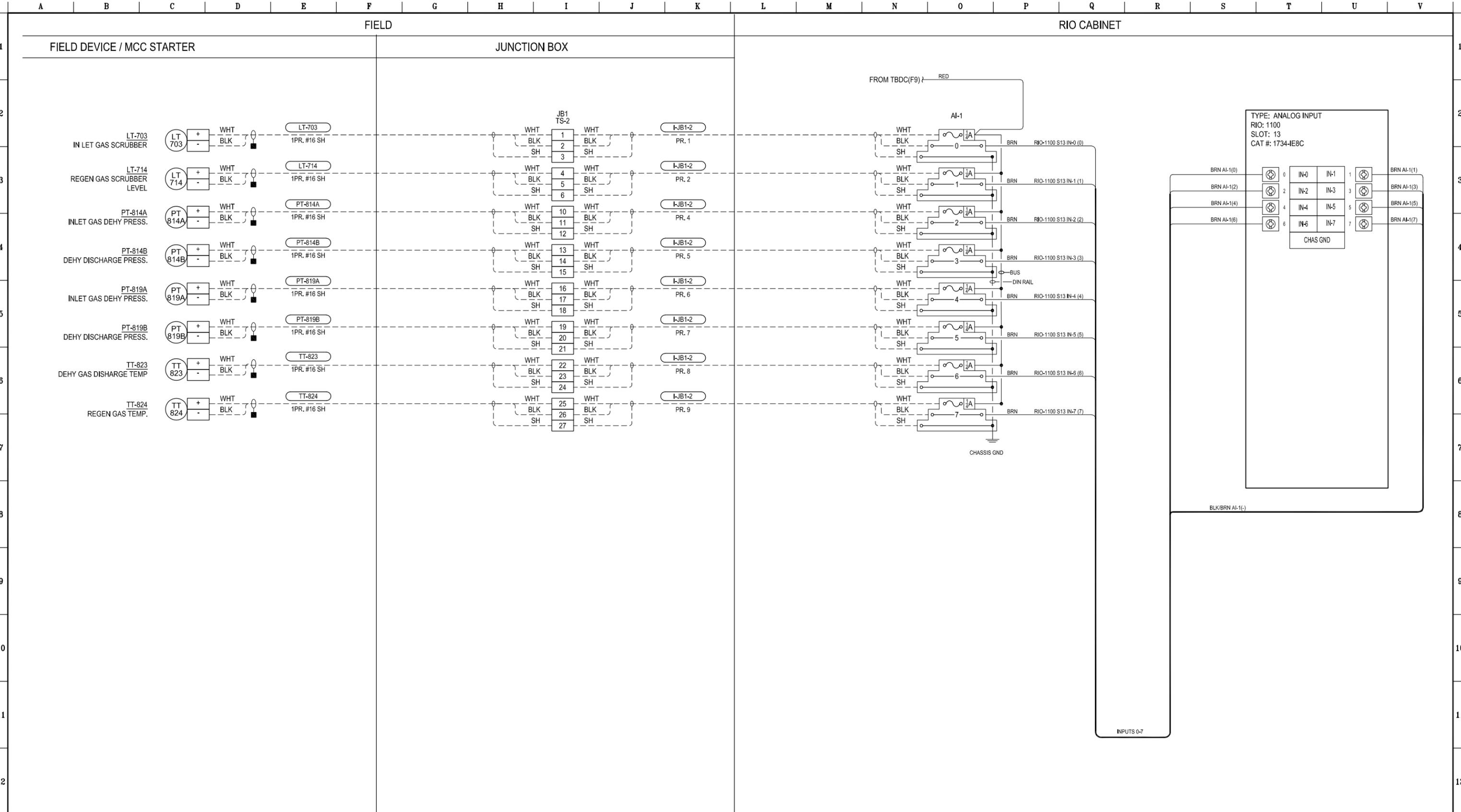
**Sargent & Lundy**  
400 Inverness Parkway, #200  
Englewood, CO 80112  
303.768.9191 Office  
303.768.9292 Fax

ENGINEERING RECORD		
BY	DATE	
DRN: ARC	01/02/24	
DES: ARC	01/02/24	
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APP: MSA	01/04/24	
AFE No.		
S&L JOB NO.	A15188.001	
PROJ. ENGR:	MSA	
SCALE:	NTS	



BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC ANALOG OUTPUT  
RIO-1100 SLOT 12  
REAGAN COUNTY, TEXAS

DWG. NO.	D-9567-N11-1111	REV	0
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NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS	
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REVISIONS			
NO.	DATE	DESCRIPTION	BY
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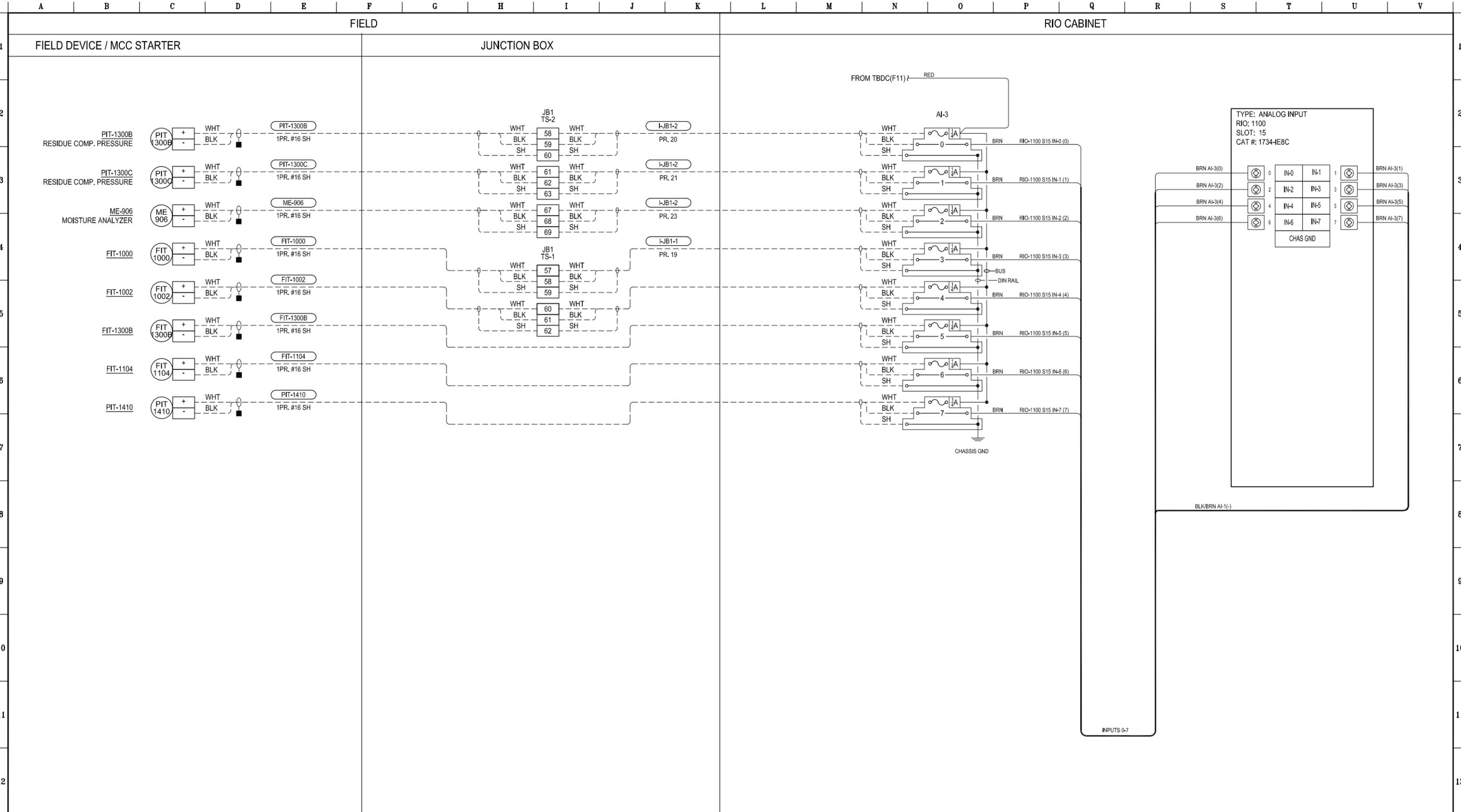
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S&L JOB NO.	A15188.001
PROJ. ENGR:	MSA
SCALE:	NTS

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC ANALOG INPUT  
RIO-1100 SLOT 13  
REAGAN COUNTY, TEXAS

DWG. NO. **D-9567-N11-1112** REV **0**





NOTES:

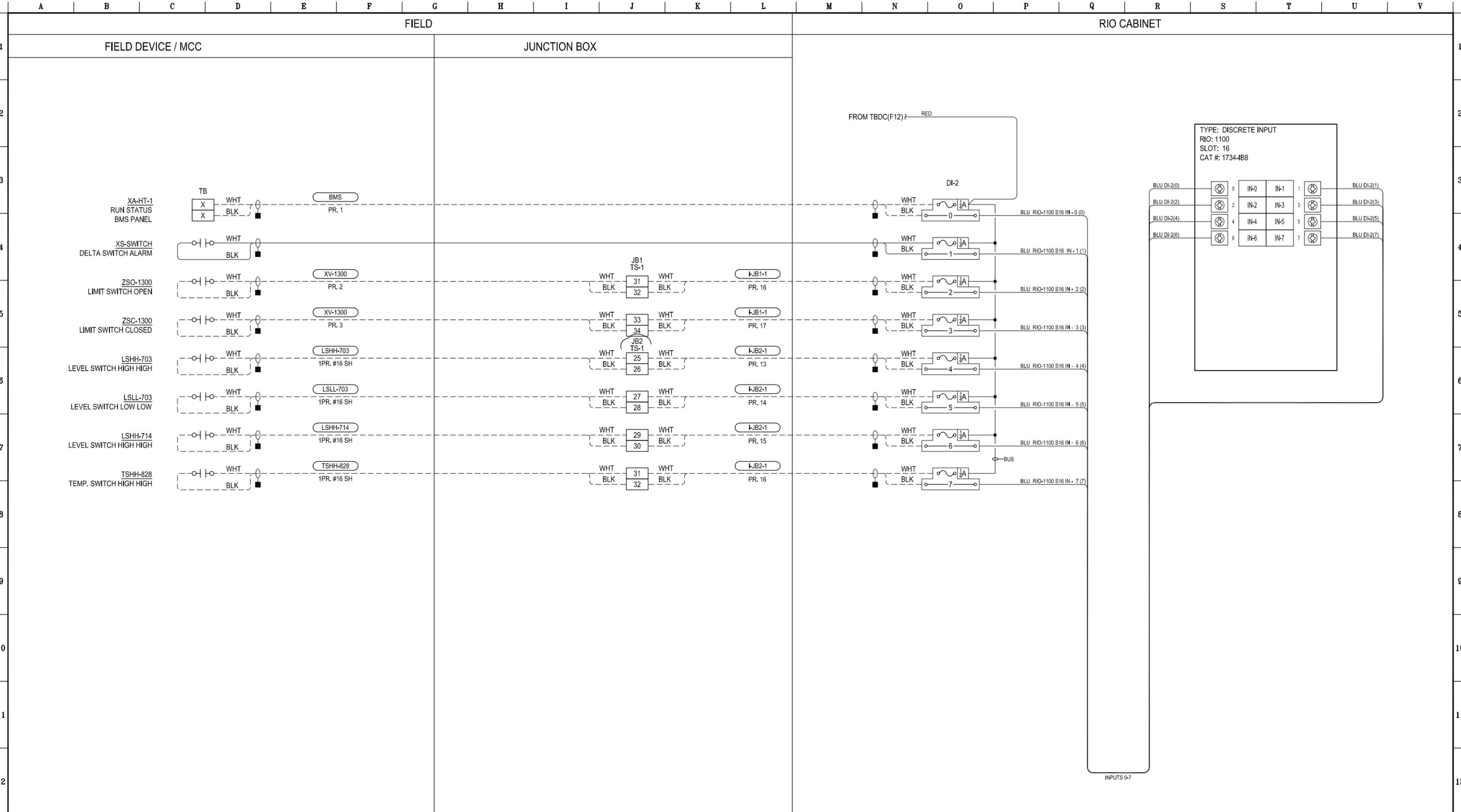
**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

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**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC ANALOG INPUT  
RIO-1100 SLOT 15  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1114  
REV 0



NOTES:

**REVISED**  
MARCH 15, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE		DESCRIPTION		BY	CHK.	APP.
NO.	TITLE									
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ENGINEERING RECORD		BY	DATE
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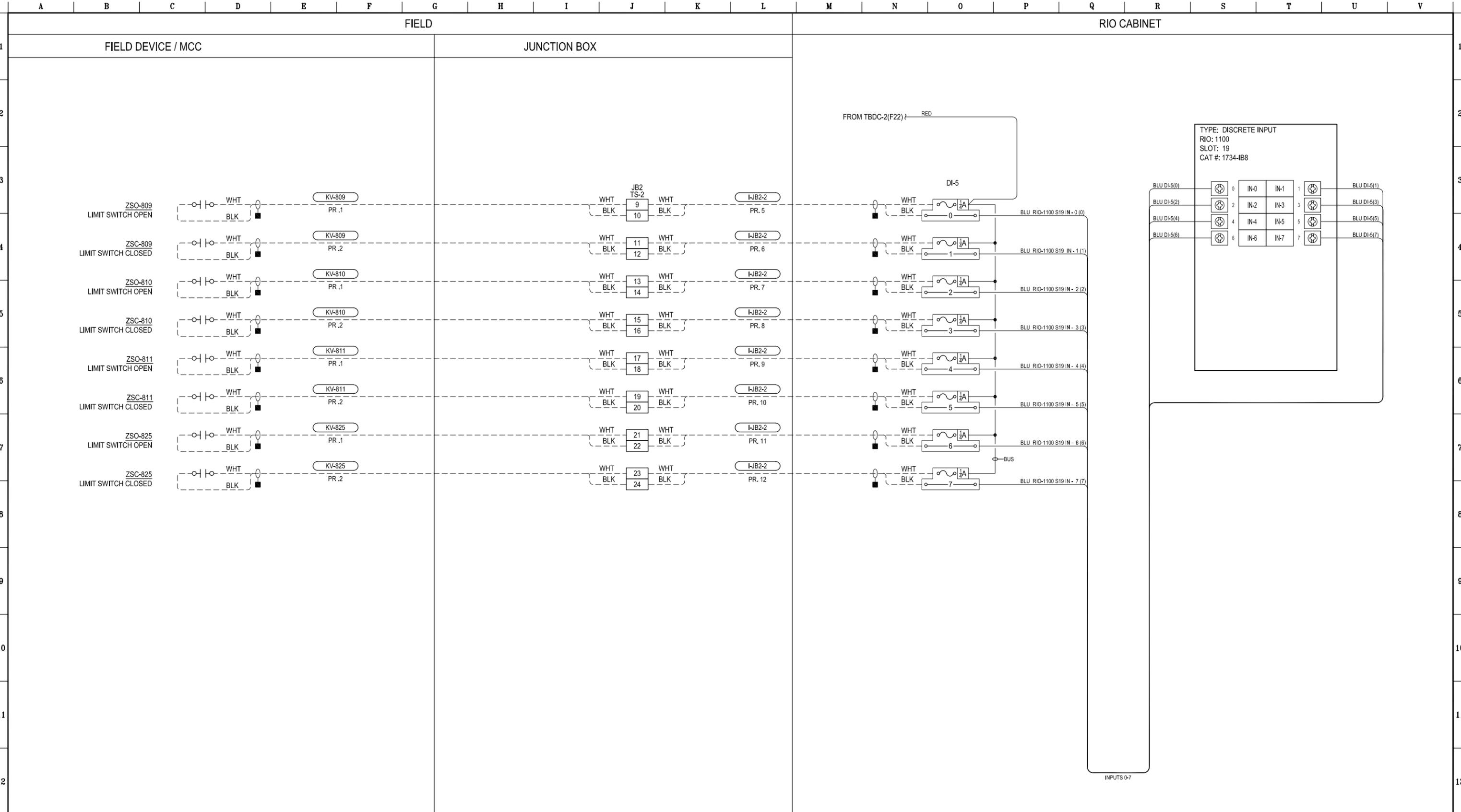
**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE INPUT  
RIO-1100 SLOT 16  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1115      REV 0







NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS				ENGINEERING RECORD			
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	BY	DATE
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								PROJ. ENGR:	MSA
								SCALE:	NTS
0		04/16/24		ISSUED FOR CONSTRUCTION	RAJ	MDM	MSA		

**CANES**  
MIDSTREAM

BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE INPUT  
RIO-1100 SLOT 19  
REAGAN COUNTY, TEXAS

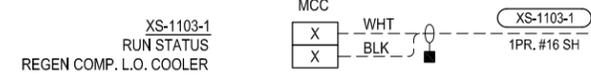
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FIELD

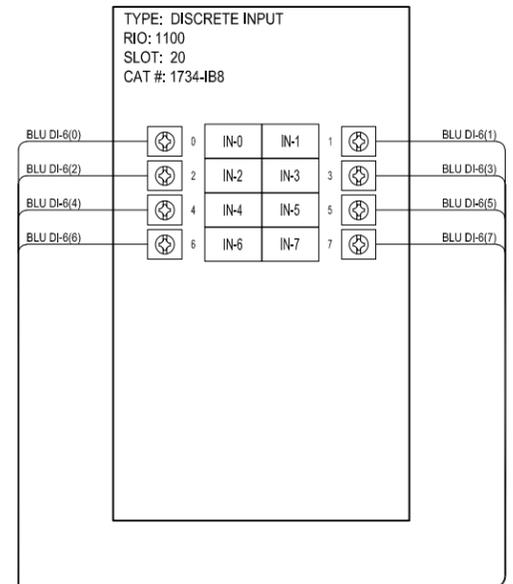
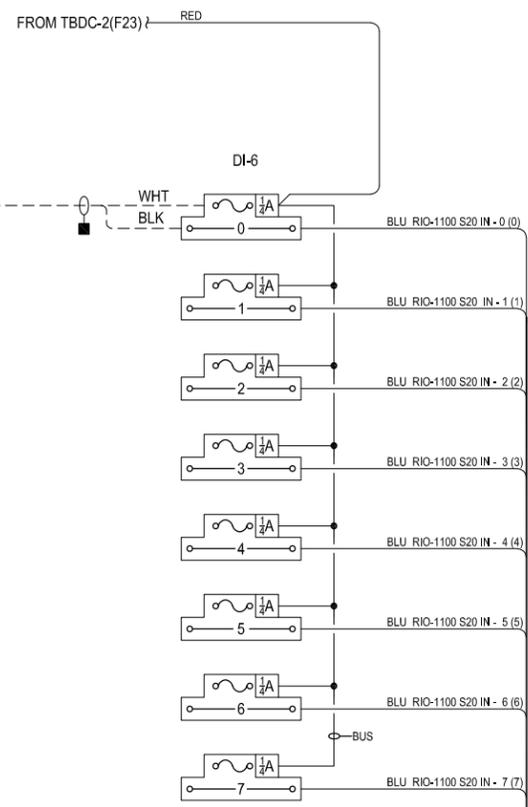
RIO CABINET

FIELD DEVICE / MCC

JUNCTION BOX



- XS-1103-1  
RUN STATUS  
REGEN COMP. L.O. COOLER
- SPARE



TYPE: DISCRETE INPUT  
RIO: 1100  
SLOT: 20  
CAT #: 1734-IB8

INPUTS 0-7

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		REVISIONS				ENGINEERING RECORD		
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
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**CANES**  
MIDSTREAM

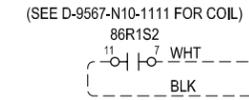
BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
PLC DISCRETE INPUT  
RIO-1100 SLOT 20  
REAGAN COUNTY, TEXAS

DWG. NO. D-9567-N11-1119  
REV 0

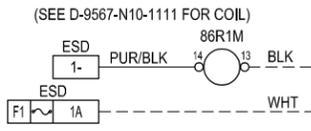
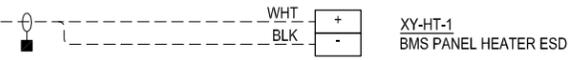


RIO-1100 PANEL

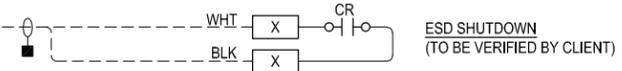
FIELD



BMS  
PR. 4



PLANT-ESD  
1PR. #16 SH



NOTES:

**REVISED**  
APRIL 16, 2024  
**FOR CONSTRUCTION**

REFERENCE DRAWINGS		NO.		DATE		TITLE	

**Sargent & Lundy**  
400 Inverness Parkway, #200  
Englewood, CO 80112  
303.768.9191 Office  
303.768.9292 Fax

REVISIONS			ENGINEERING RECORD			
NO.	DATE	DESCRIPTION	BY	CHK.	APP.	DATE
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ENGINEERING RECORD	
BY	DATE
DRN: ARC	01/02/24
DES: ARC	01/02/24
CHK: AMP	01/03/24
APP: MSA	01/04/24
AFE No.	
S&L JOB NO.	A15188.001
PROJ. ENGR:	MSA
SCALE:	NTS



BIG LAKE FACILITY  
200 MMSCFD GAS PROCESSING PLANT  
ESD RIO1100  
WIRING SCHEMATIC  
REAGAN COUNTY, TEXAS

DWG. NO.	D-9567-N11-1121	REV	0
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