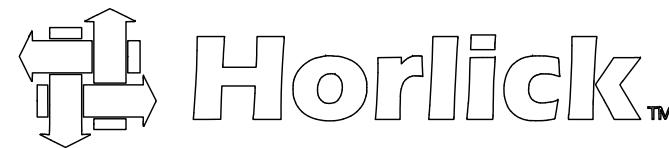




BERKSHIRE GREY
140 SOUTH RD
BEDFORD, MA 01730



Company / customer BERKSHIRE GREY
Project description BG115632
Job number N/A
Created on 11/28/2022
Edit date 02/10/2025
REV. G

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DATE	DESCRIPTION	APPR.	BU	12/01/2022		D-BG-115632	REV-G	
CHK BY							SCALE N/A	
				APPR BY	DATE		JOB NO. N/A	SHEET i OF 42

WIRE COLOR TABLE		
TYPE	FUNCTION	INSULATION COLOR
480VAC	PHASE 1	BROWN
480VAC	PHASE 2	ORANGE
480VAC	PHASE 3	YELLOW
ISOLATED DC GROUND	GROUND	GREEN W/ YELLOW STRIPE
AC GROUND	GROUND	GREEN
DC POWER	DC SOURCE	BLUE
DC POWER	COMMON	WHITE W/ BLUE STRIPE
CONTROL	DRY-CONTACT	ORANGE

FACTORY RECOMMEND PREVENTATIVE MAINTENANCE BEFORE APPLYING POWER TO THIS CONTROL PANEL CHECK AND RE-TORQUE ALL POWER DISTRIBUTION AND CONTROL TERMINAL CONNECTORS	
REPEAT ABOVE PROCEDURE 60-90 DAYS AFTER SYSTEM STARTUP	
NFT SERIES FIELD WIRING TO TERMINAL MUST BE TORQUED TO THE FOLLOWING VALUES	
WIRE SIZE	TORQUE
UP TO #6 AWG	20 LB/INCH
UP TO #4 AWG	35 LB/INCH
UP TO #2/0	50 LB/INCH
NFT SERIES FIELD WIRING TO TERMINAL MUST BE TORQUED TO THE FOLLOWING VALUES	
WIRE SIZE	TORQUE
#14 - 10 AWG	35 LB/INCH
#8 AWG	40 LB/INCH
#6 - 4 AWG	45 LB/INCH
#3 - 2 AWG	50 LB/INCH

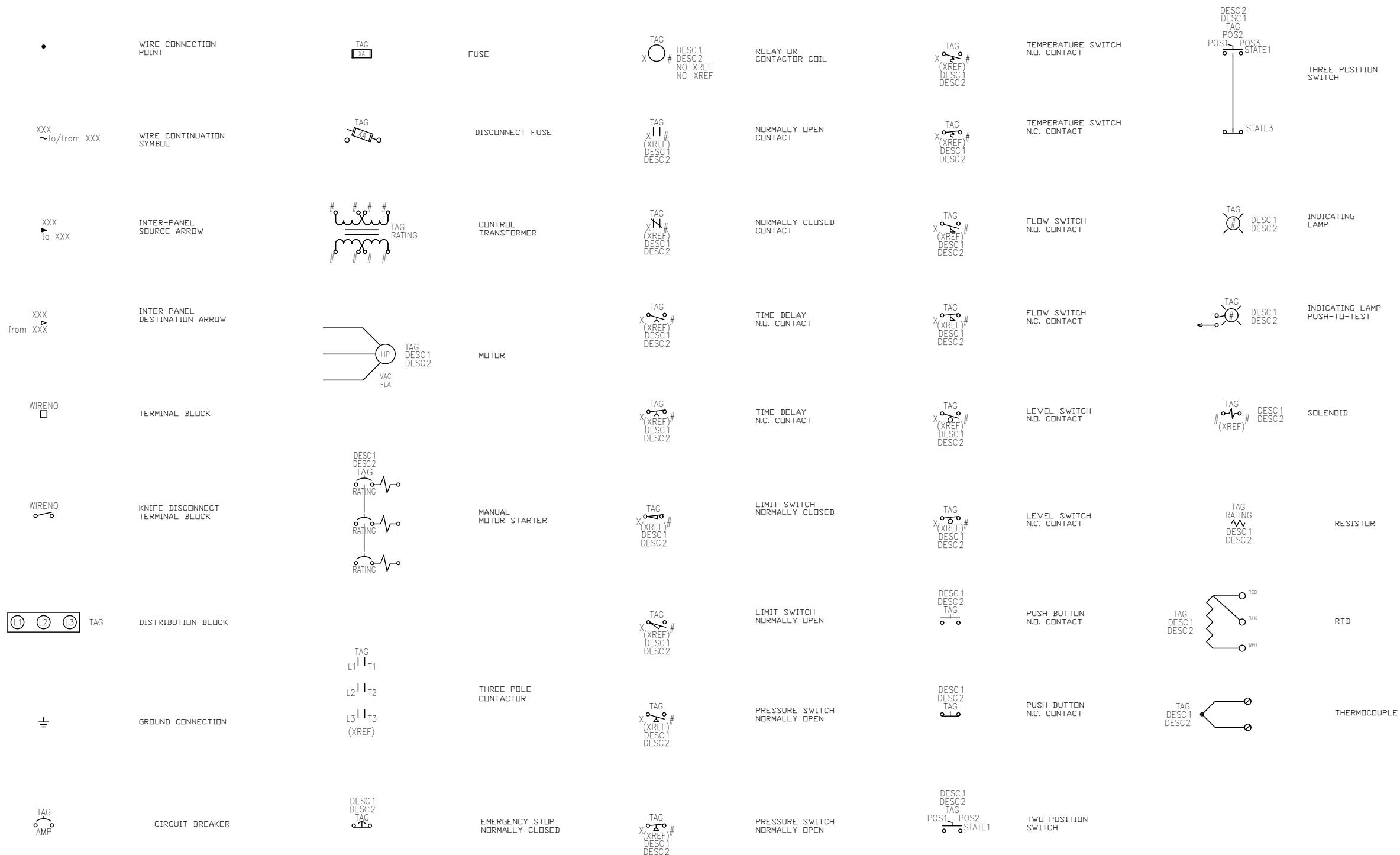
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE	DWG NO.	REV	
DATE	DESCRIPTION	APPR.	BU	12/01/2022				BG115632	D-BG-115632	REV-G
			CHK BY	DATE				WIRING COLORING		SCALE N/A
			APPR BY	DATE		CLIENT	BERKSHIRE GREY	SIZE B		
							N/A	SHEET ii OF 42		

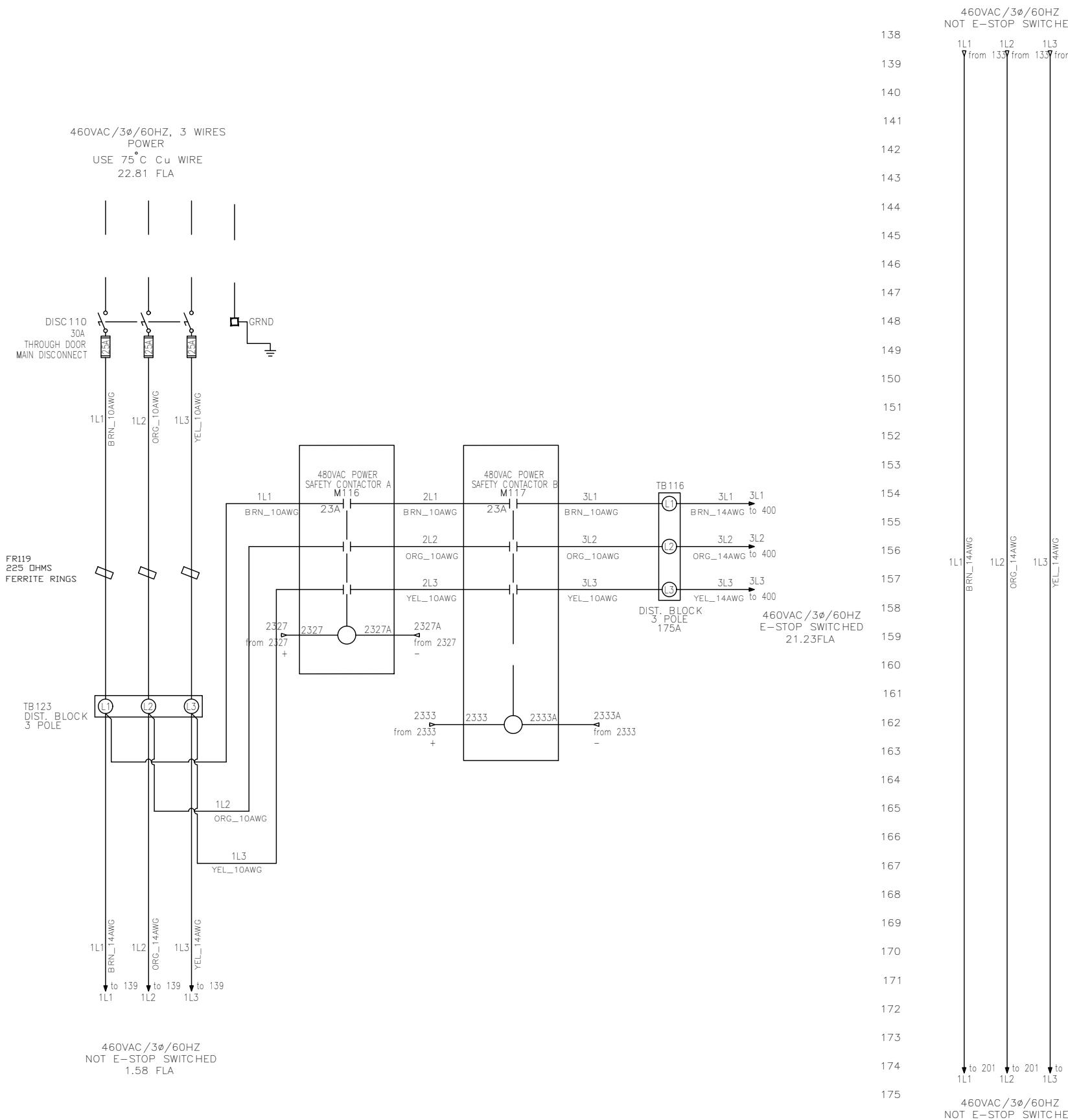
SHEET	SH #
Cover Page	i
Wire Coloring	ii
Index	iii
Symbols & Legend	iv
460VAC Power	1
460VAC Power NOT E-STOP	2
Blank	3
460VAC Power E-STOP switched	4
Blank	5
24VDC Power	6
24VDC Power M12 Inputs	7
24VDC Power M12 Outputs	8
Blank	9
24VDC Logic Power External Devices	10
24VDC Transmitter Power External Devices	11
24VDC Scanner Power External Devices	12
Blank	13
48VDC Power	14
Blank	15
Power Rail	16
Blank	17
PLC Inputs	18
PLC Outputs	19
PLC Analog	20
PLC Safety Inputs	21
PLC Safety Inputs	22
PLC Safety Output	23
PLC I_O Card	24
Safety cable assignment	25

SHEET	SH #
Safety cable assignment	26
Safety cable assignment	27
Blank	28
Network Telemetry	29
Panel layout side views	30
Panel layout enclosure top view	31
Panel layout enclosure Front view	32
Panel layout bottom view	33
External cable list	34
External cable list cont.	35
Backpanel layout	36
Backpanel Top Row	37
PLC layout	38
Backpanel layout PWs	39
Backpanel bottom row	40
Terminal blocks	41
Bill of materials	42

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DATE	DESCRIPTION	APPR.	BU	12/01/2022			CLIENT	D-BG-115632	REV-G
			CHK BY	DATE			BERKSHIRE GREY	BERKSHIRE GREY	SCALE N/A
			APPR BY	DATE			SIZE B		
						JOB NO.			
						N/A	SHEET iii OF 42		

SYMBOLS & LEGEND

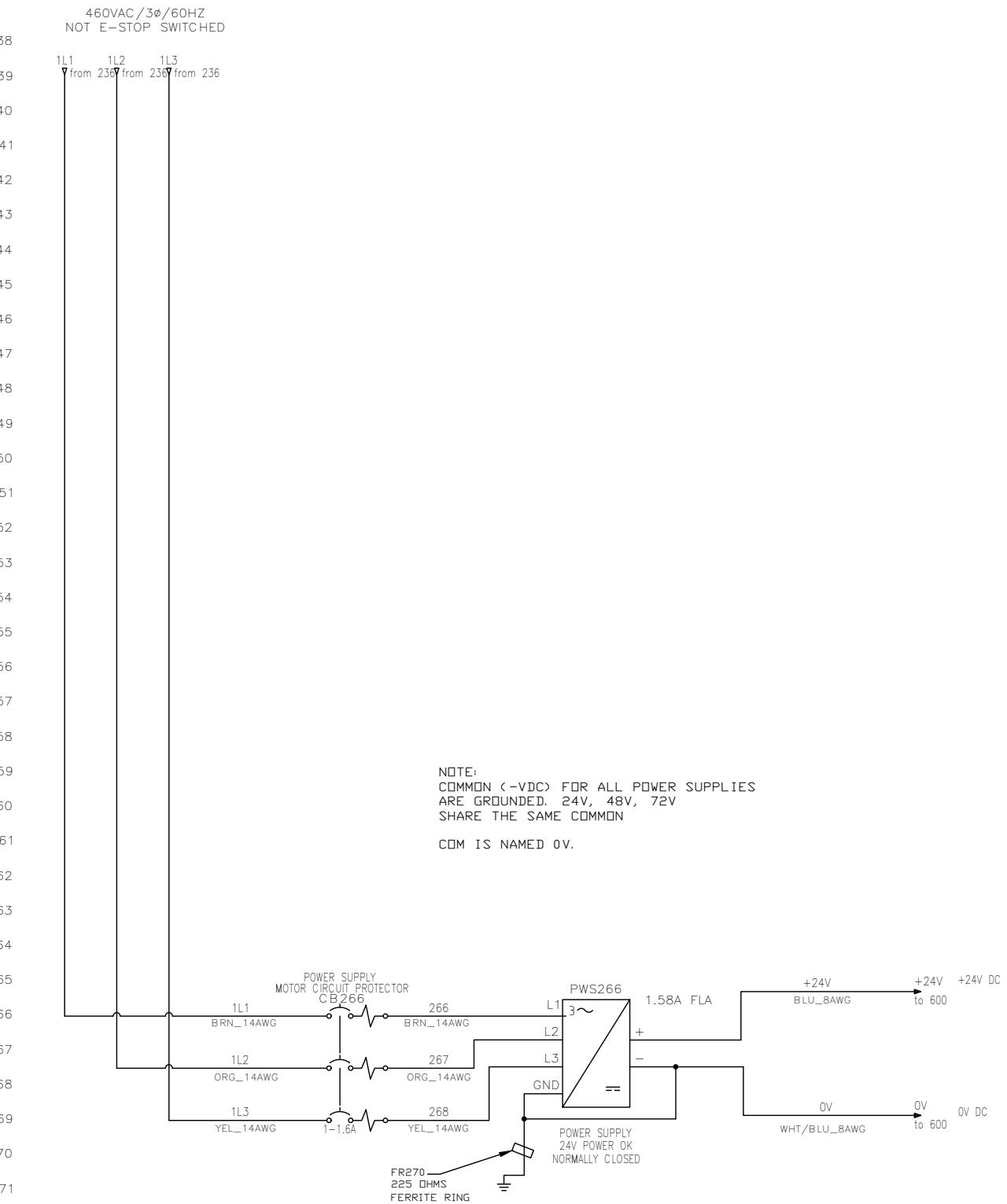
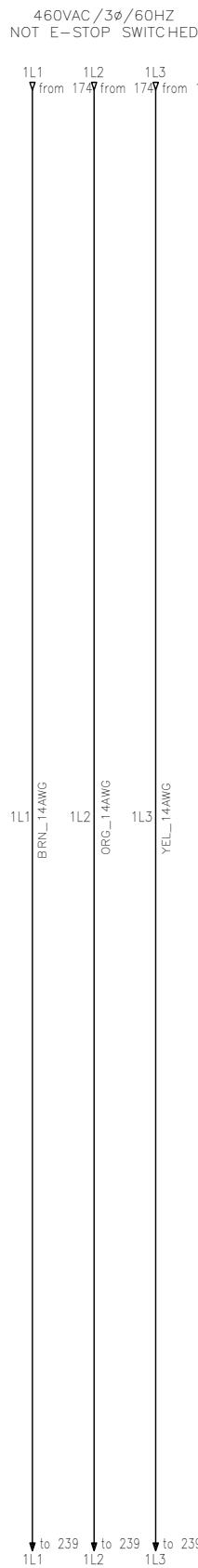




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DATE	DESCRIPTION	APPR.	CHK BY	DATE				SCALE N/A	SIZE B
			APPR BY	DATE			CLIENT BERKSHIRE GREY	JOB NO. N/A	SHEET 1 OF 42

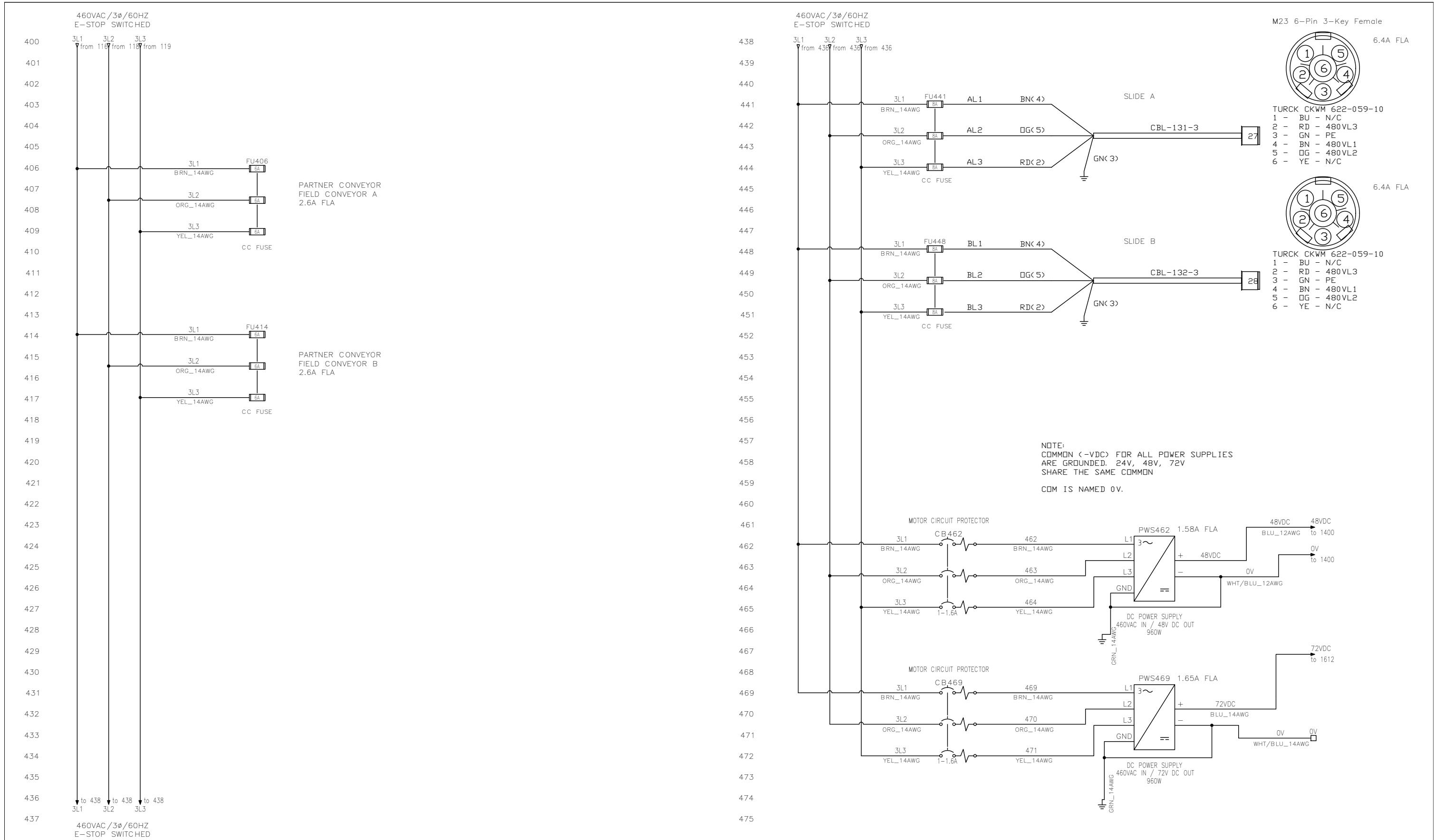
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REVISIONS			DRAWN BY BU	DATE 12/01/2022	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE BG115632 BLANK	DWG NO. D-BG-115632	REV REV-G
DATE	DESCRIPTION	APPR.	CHK BY	DATE	CLIENT	JOB NO.	SCALE N/A		
			APPR BY	DATE	BERKSHIRE GREY	N/A	SIZE B		
						SHEET 3 OF 42			

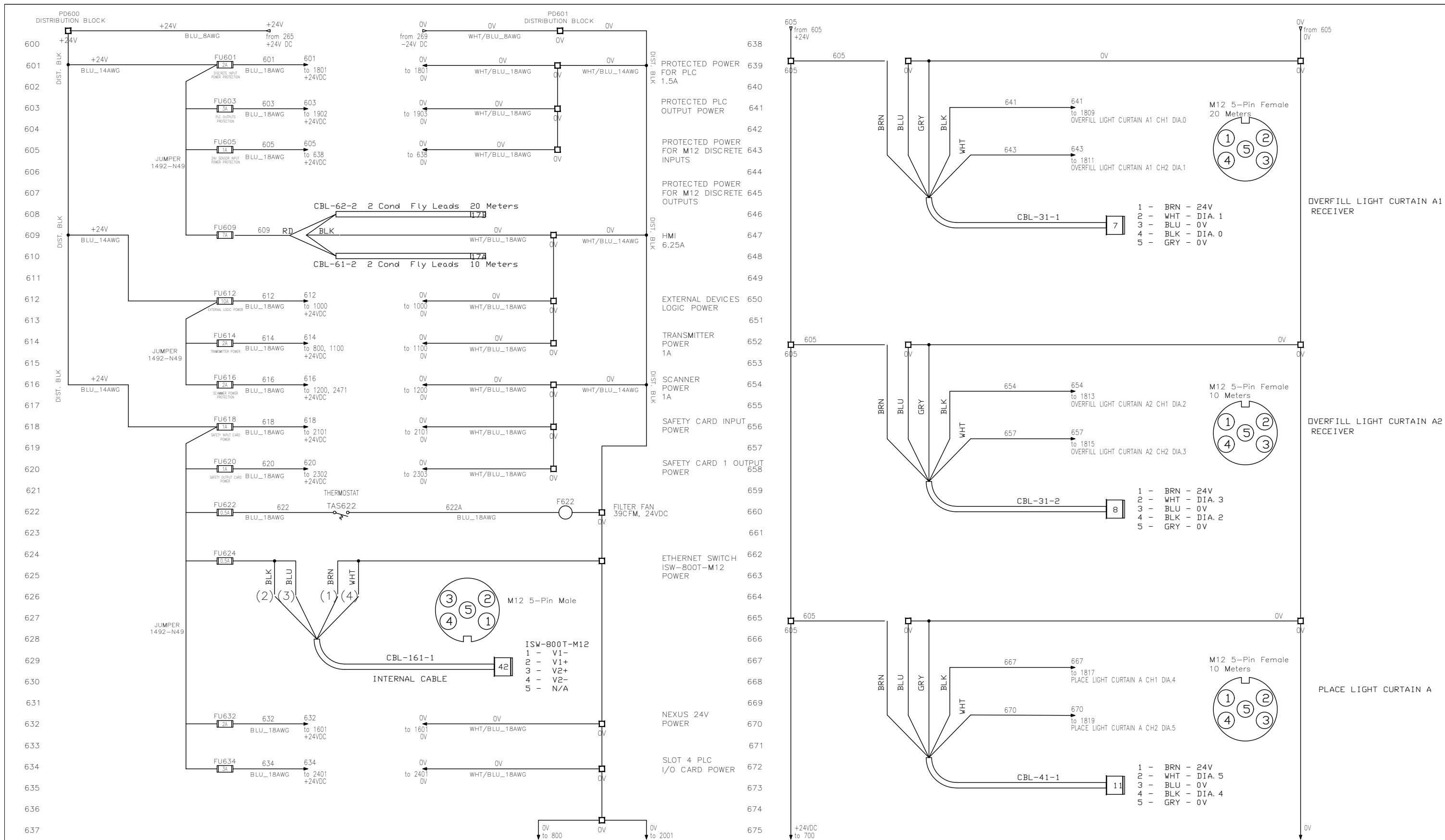


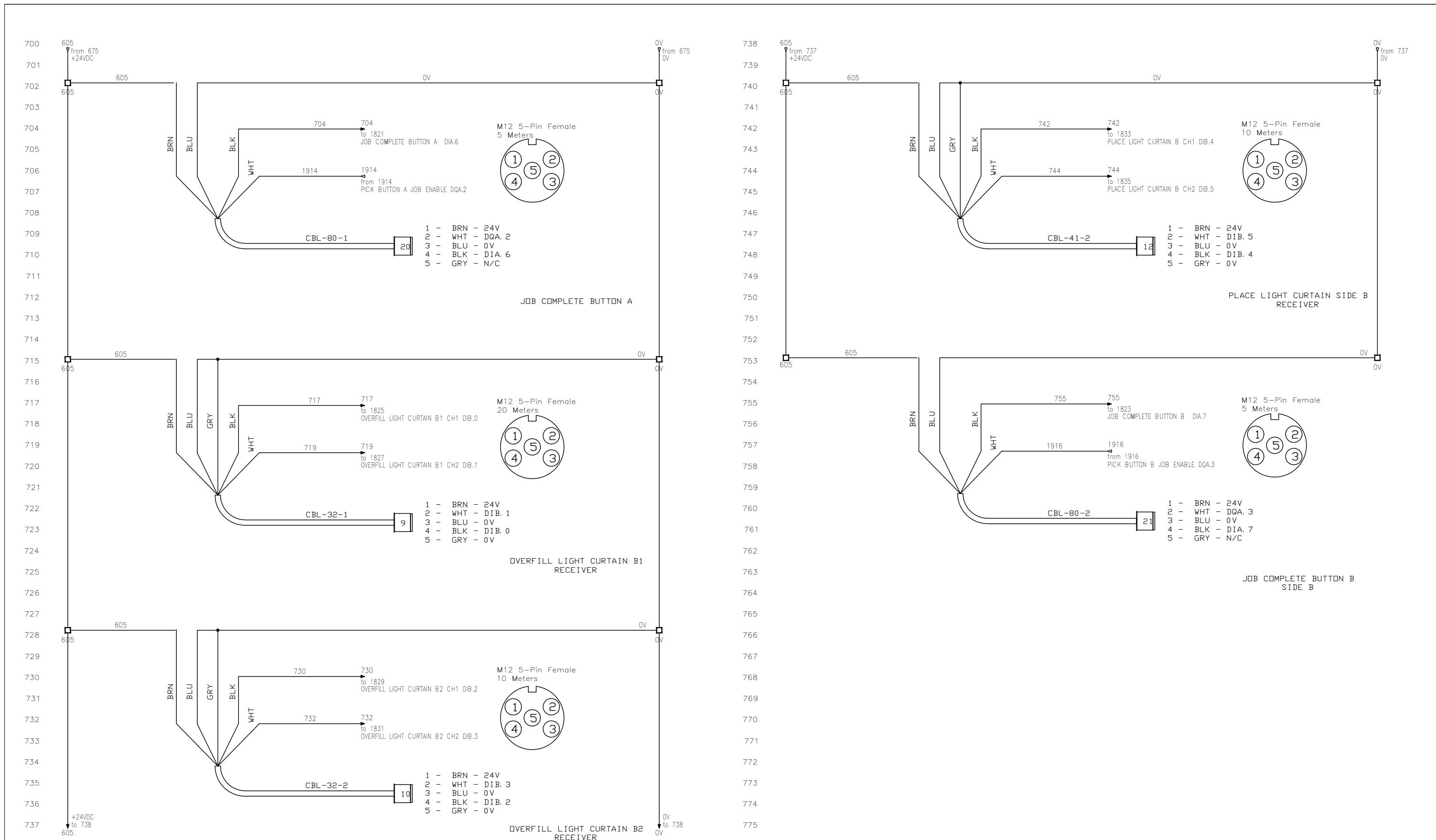
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	BG BERKSHIRE GREY	SJE	TJ Horlick™	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.				BG115632	D-BG-115632	REV-G
			CHK BY	DATE					460V E-STOP SWITCHED		SCALE N/A
			APPR BY	DATE					CLIENT	JOB NO.	SIZE B
									BERKSHIRE GREY	N/A	SHEET 4 OF 42

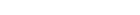
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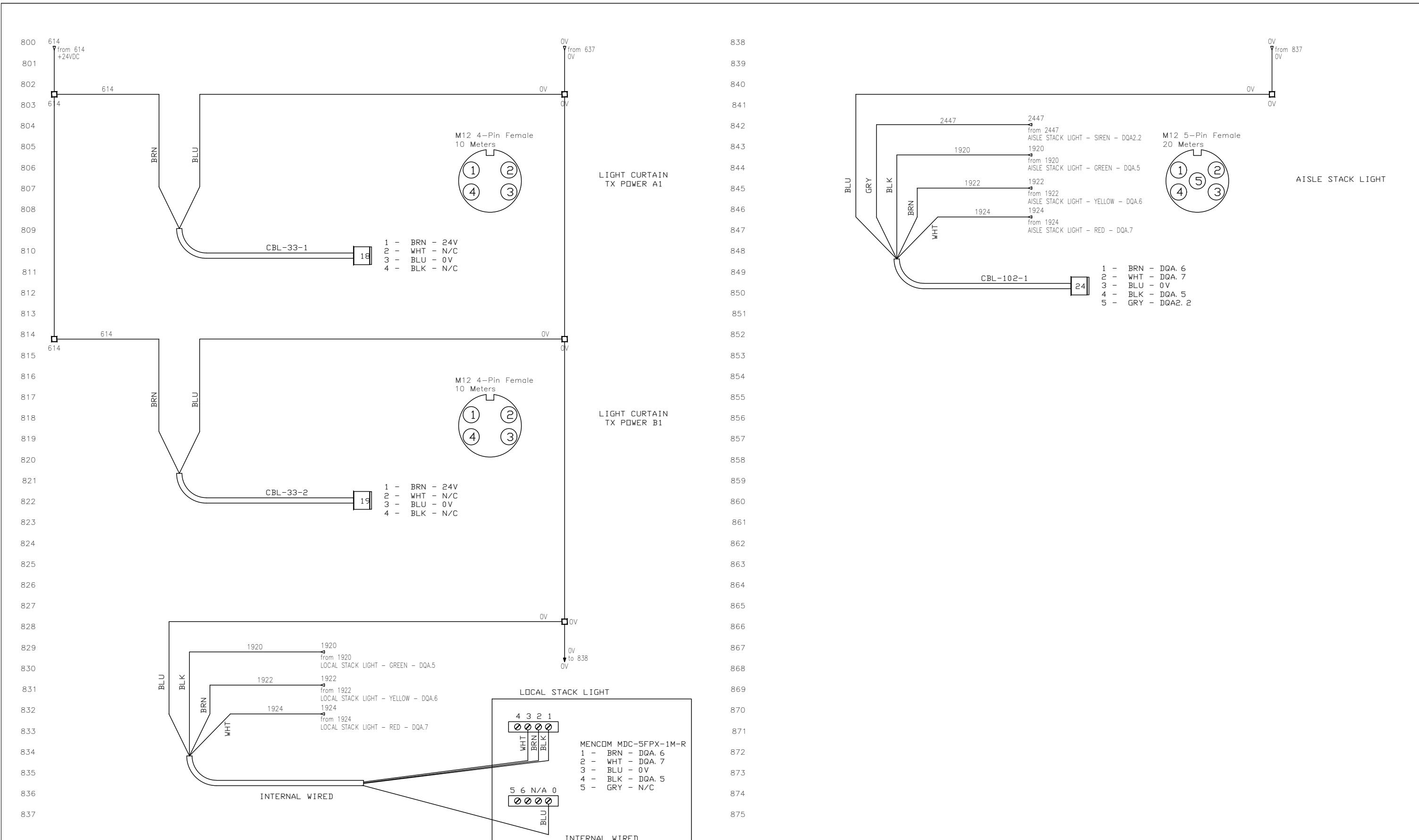
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REVISIONS			DRAWN BY BU	DATE 12/01/2022	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY   Horlick™	TITLE BG115632 BLANK	DWG NO. D-BG-115632	REV REV-G
DATE	DESCRIPTION	APPR.	CHK BY	DATE				SCALE N/A	SIZE B
			APPR BY	DATE			CLIENT BERKSHIRE GREY	JOB NO. N/A	SHEET 5 OF 42





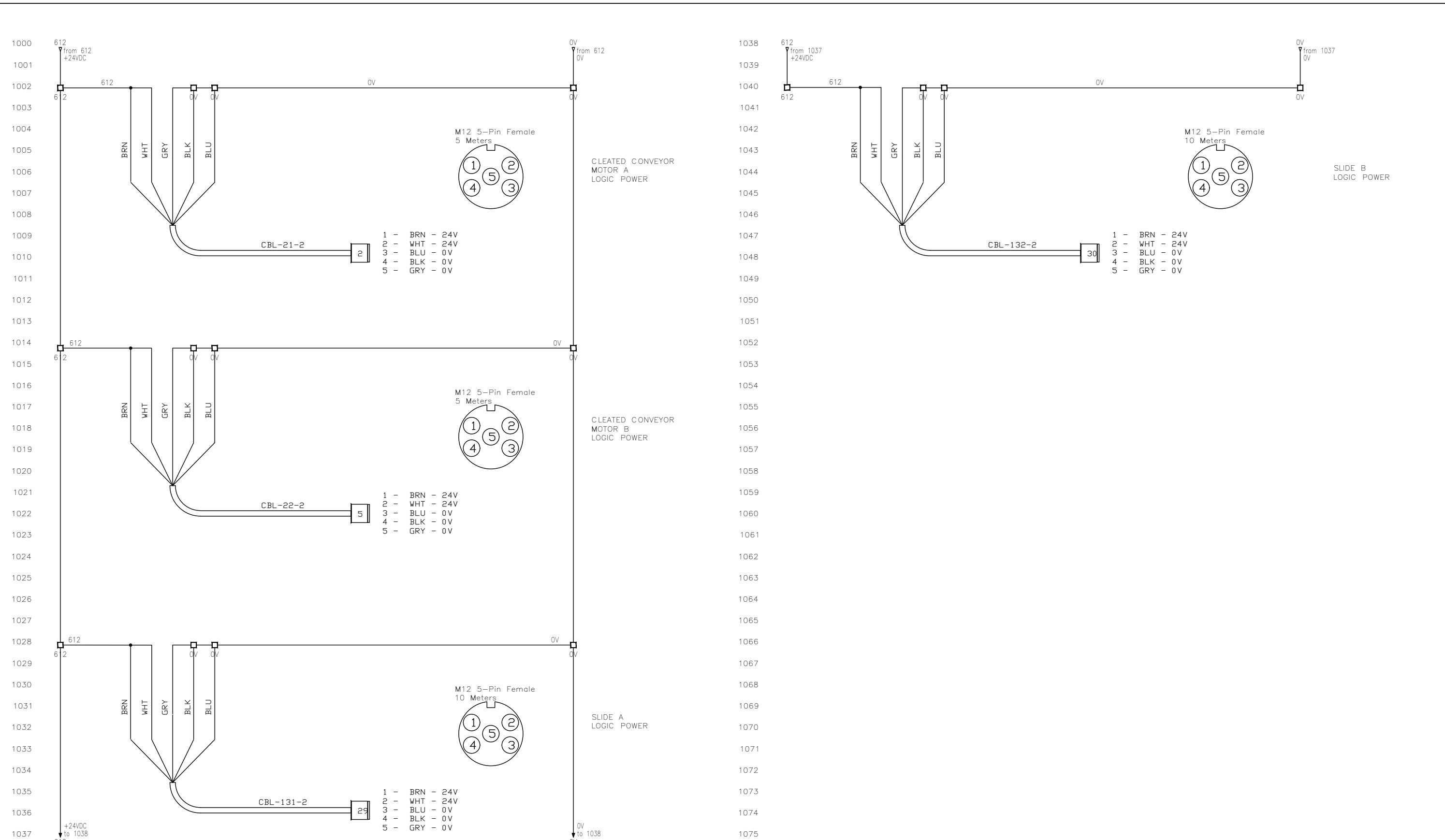
REVISIONS			DRAWN BY BU	DATE 12/01/2022	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE BG115632 M12 INPUTS	DWG NO. D-BG-115632	REV REV-G
DATE	DESCRIPTION	APPR.	CHK BY	DATE	CLIENT	JOB NO.	SCALE N/A		
			APPR BY	DATE	BERKSHIRE GREY	N/A	SIZE B		
							SHEET 7 OF 42		



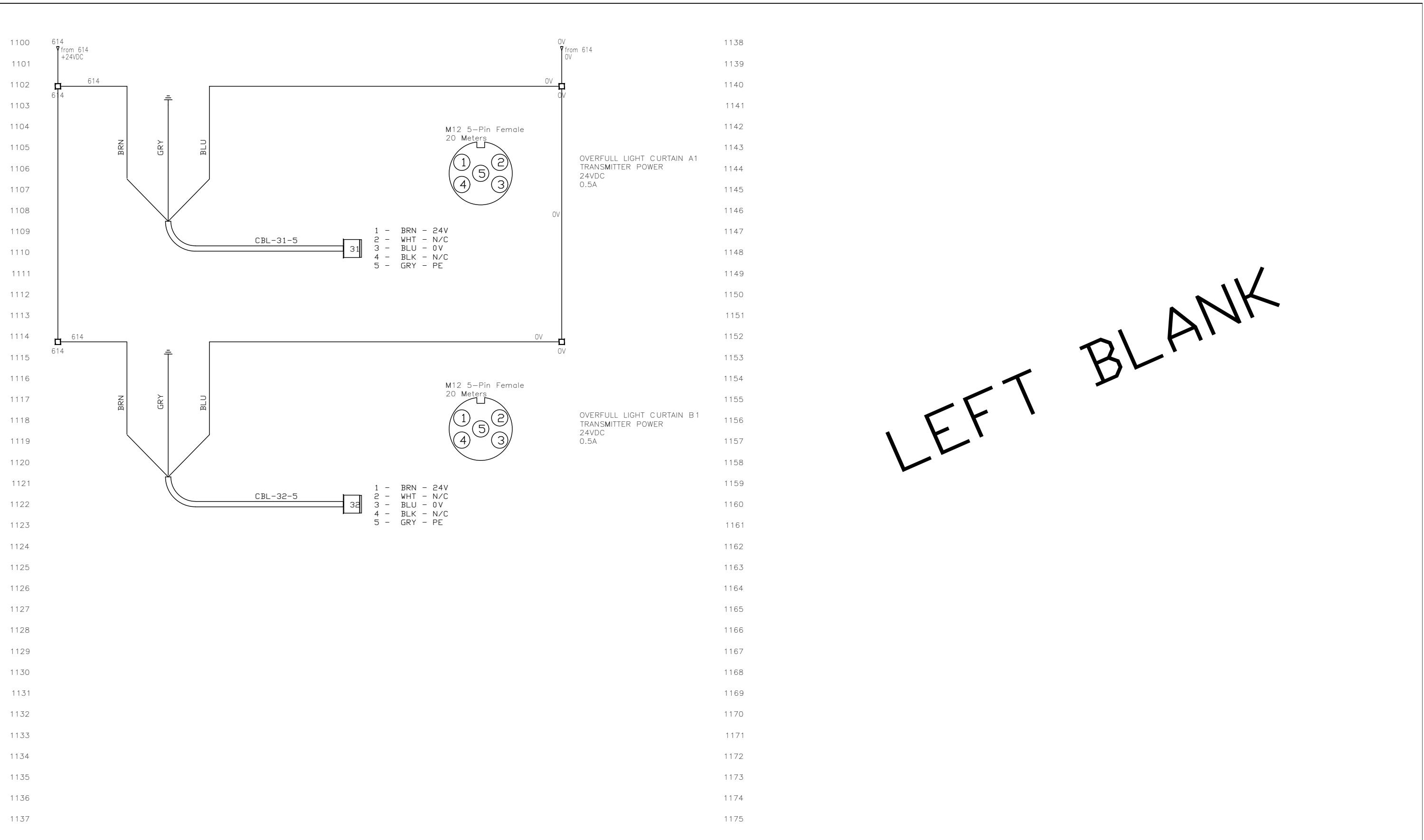
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DATE	DESCRIPTION	APPR.	BU	12/01/2022	SJE		BG115632	D-BG-115632	REV-G
			CHK BY	DATE	BG BERKSHIRE GREY		BLANK		SCALE N/A
			APPR BY	DATE	Horlick		CLIENT	JOB NO.	SIZE B
							BERKSHIRE GREY	N/A	SHEET 9 OF 42

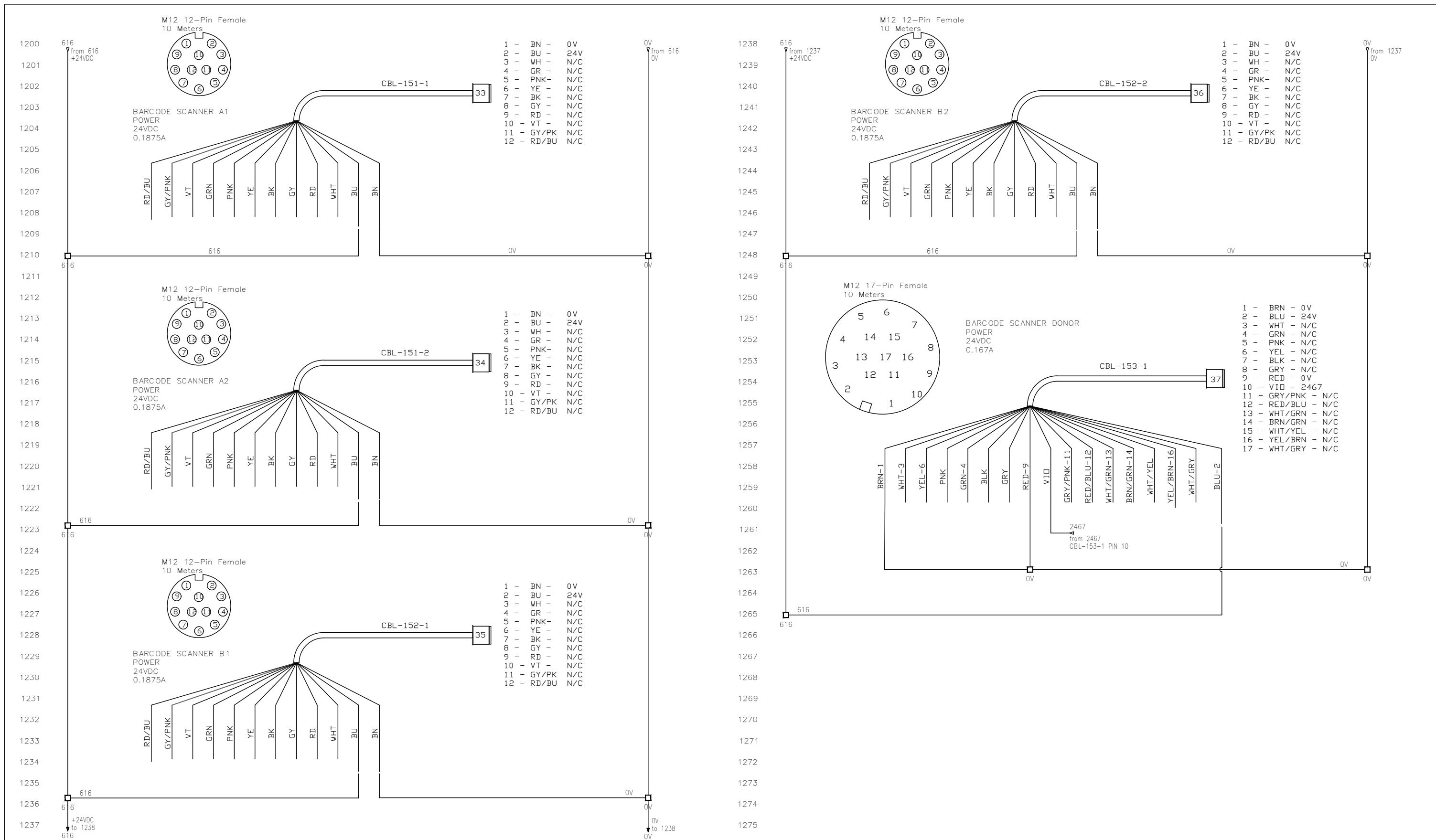


REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022			BG115632	D-BG-115632	REV-G
			CHK BY	DATE			EXTERNAL LOGIC POWER		N/A
			APPR BY	DATE			CLIENT	JOB NO.	SIZE
							BERKSHIRE GREY	N/A	B
									SHEET 10 OF 42



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DATE	DESCRIPTION	APPR.	BU	12/01/2022				REV-G
CHK BY								SCALE
						BERKSHIRE EXTERNAL TRANSMITTER POWER	D-BG-115632	N/A
						CLIENT	JOB NO.	B
						BERKSHIRE GREY	N/A	SHEET 11 OF 42



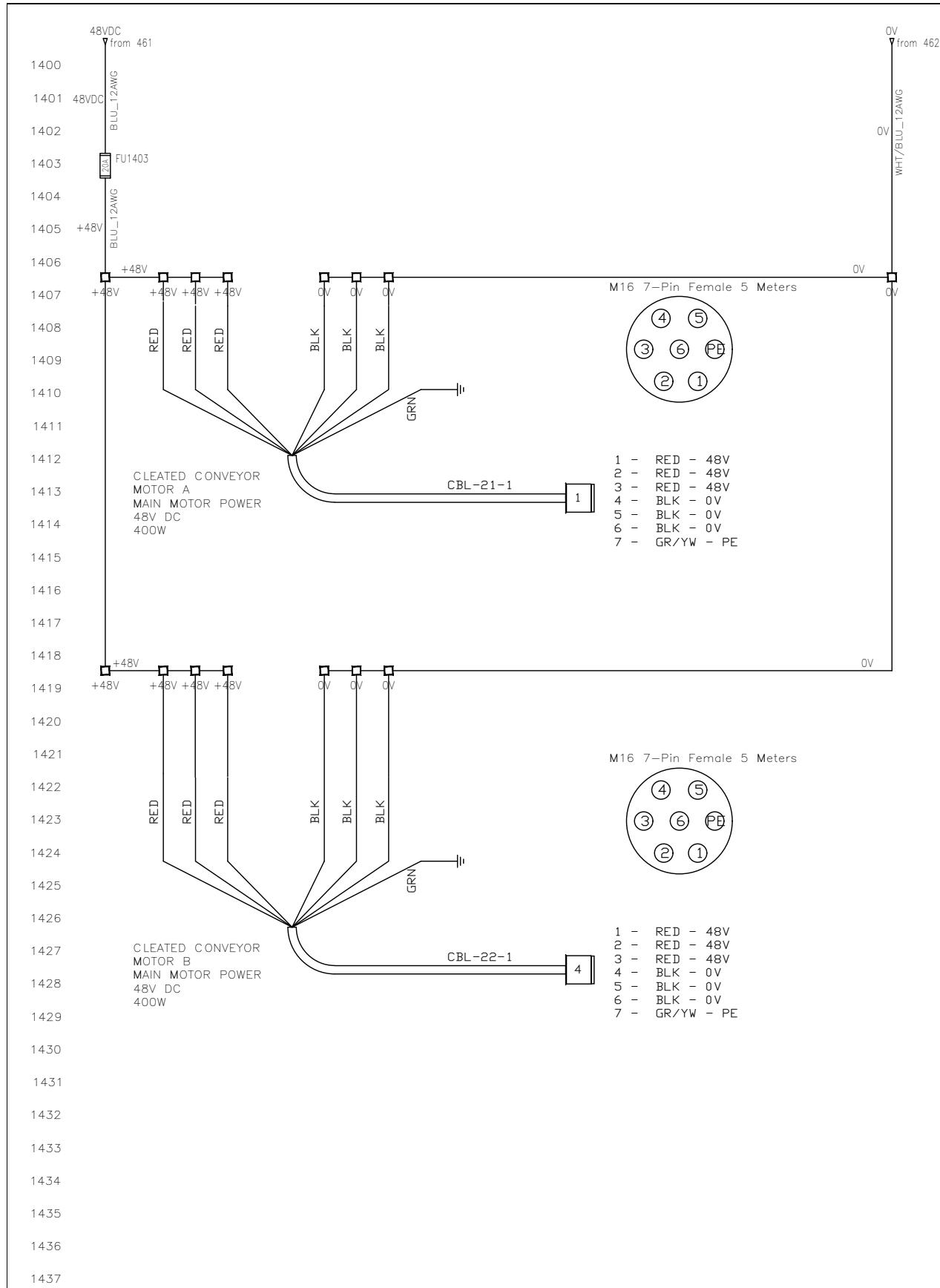


REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	BG115632 EXTERNAL SCANNER POWER	D-BG-115632	REV-G
CHK BY				DATE				SCALE N/A
APPR BY				DATE				SIZE B
						BERKSHIRE GREY		SHEET 12 OF 42
						Horlick		

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REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	BG BERKSHIRE GREY  Horlick™	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.		BG115632 BLANK	D-BG-115632	REV-G
CHK BY	DATE							SCALE	
APPR BY	DATE							N/A	
CLIENT			BERKSHIRE GREY				JOB NO.	SIZE	
							N/A	B	
								SHEET 13 OF 42	



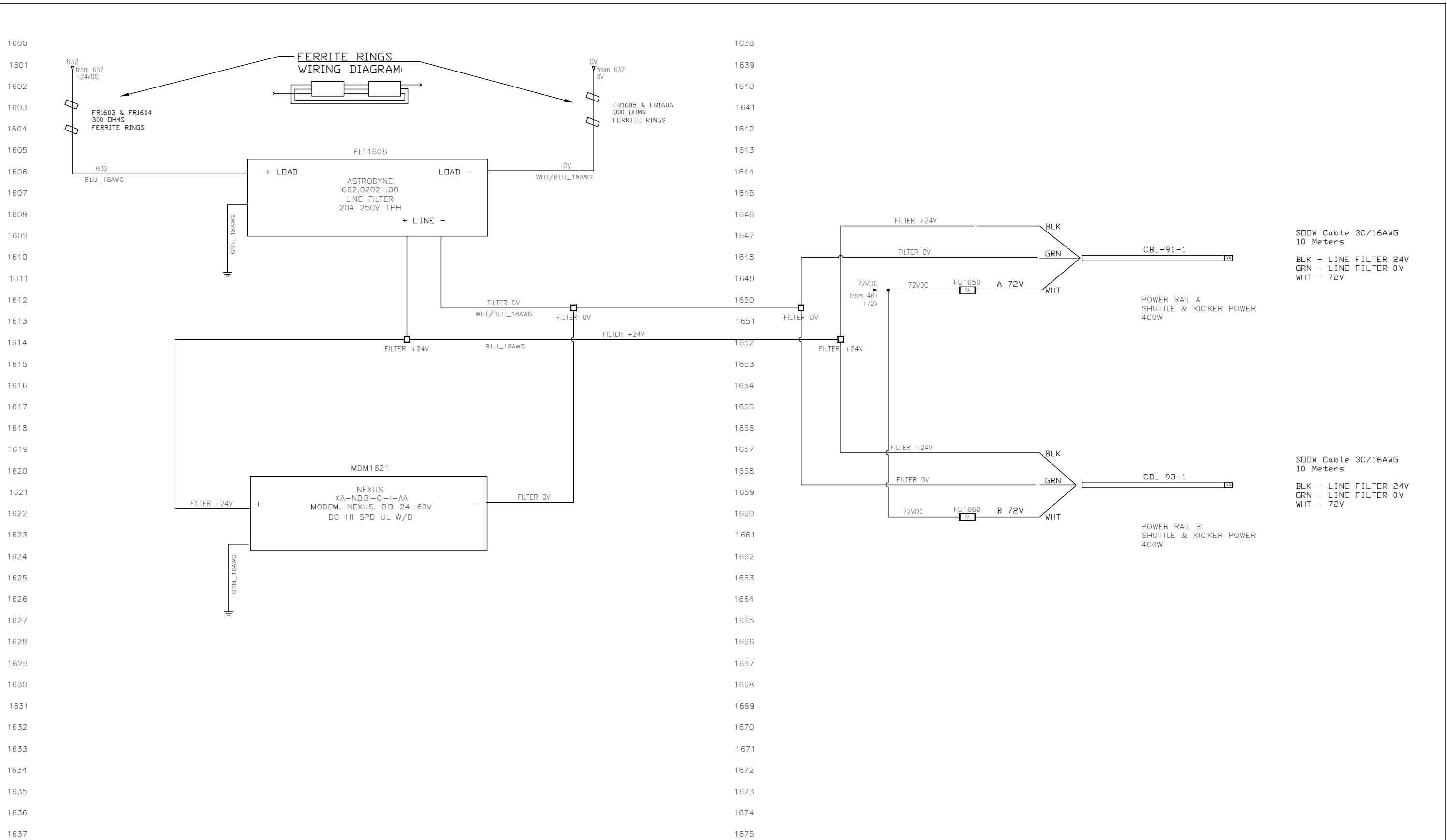
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DATE	DESCRIPTION	APPR.	BU	12/01/2022		BLANK	D-BG-115632	REV-G	
CHK BY		DATE				CLIENT	BERKSHIRE GREY	N/A	
APPR BY		DATE				CLIENT	BERKSHIRE GREY	N/A	SHEET 15 OF 42

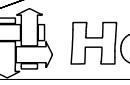


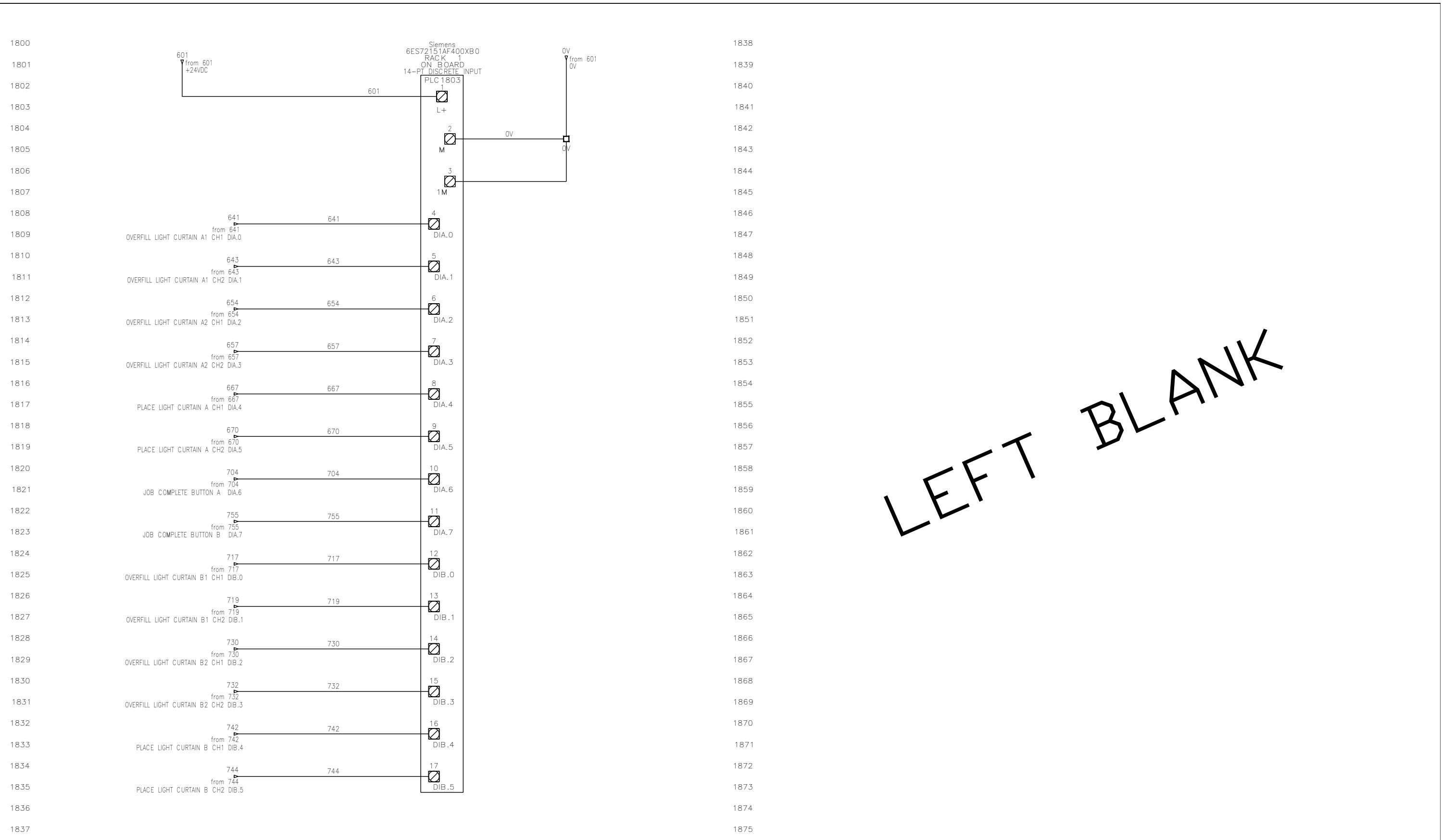
REVISIONS			DRAWN BY BU	DATE 12/01/2022	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY   Horlick™	TITLE BG115632 POWER RAIL	DWG NO. D-BG-115632	REV REV-G
DATE	DESCRIPTION	APPR.	CHK BY	DATE	CLIENT BERKSHIRE GREY				SCALE N/A
			APPR BY	DATE					JOB NO. N/A

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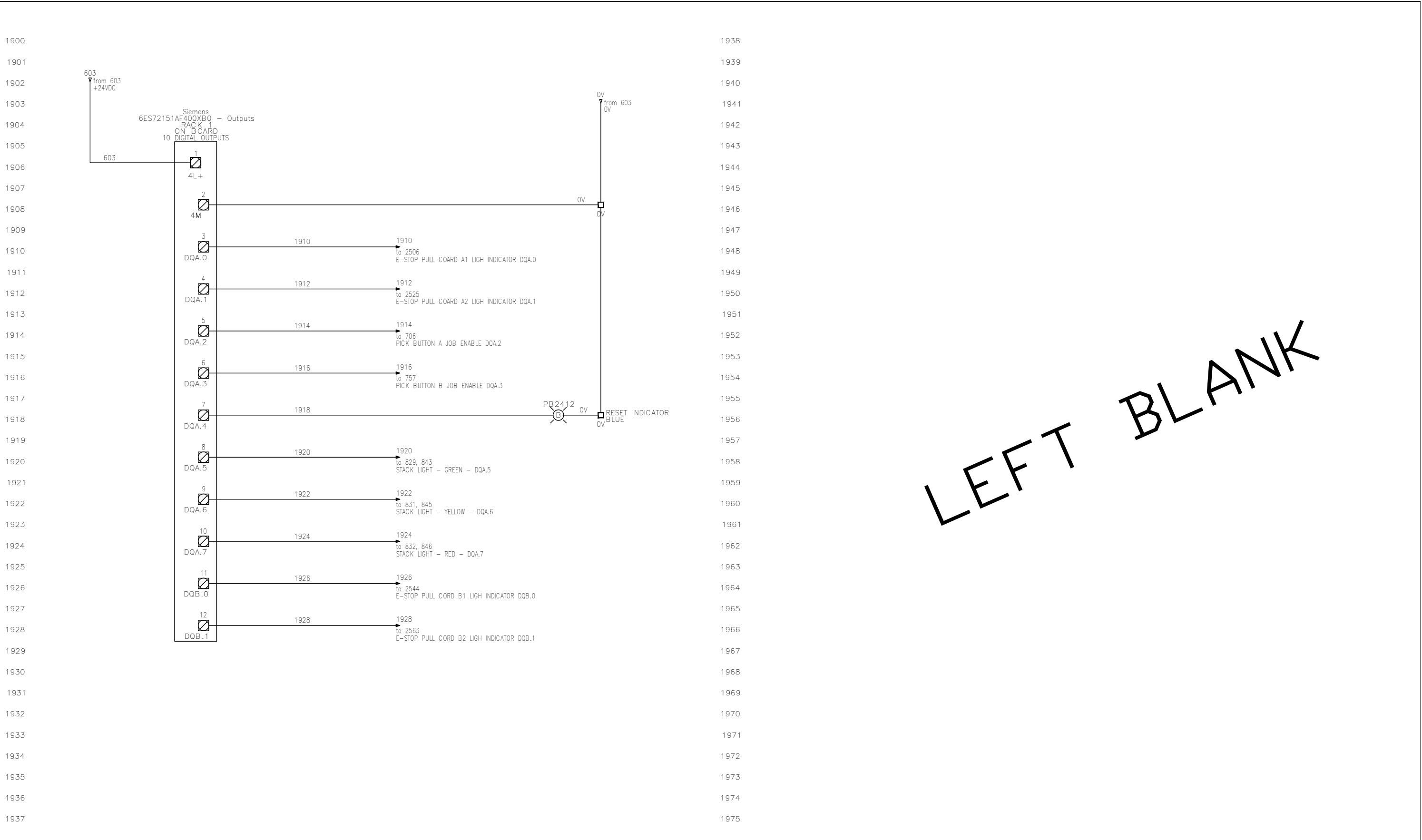
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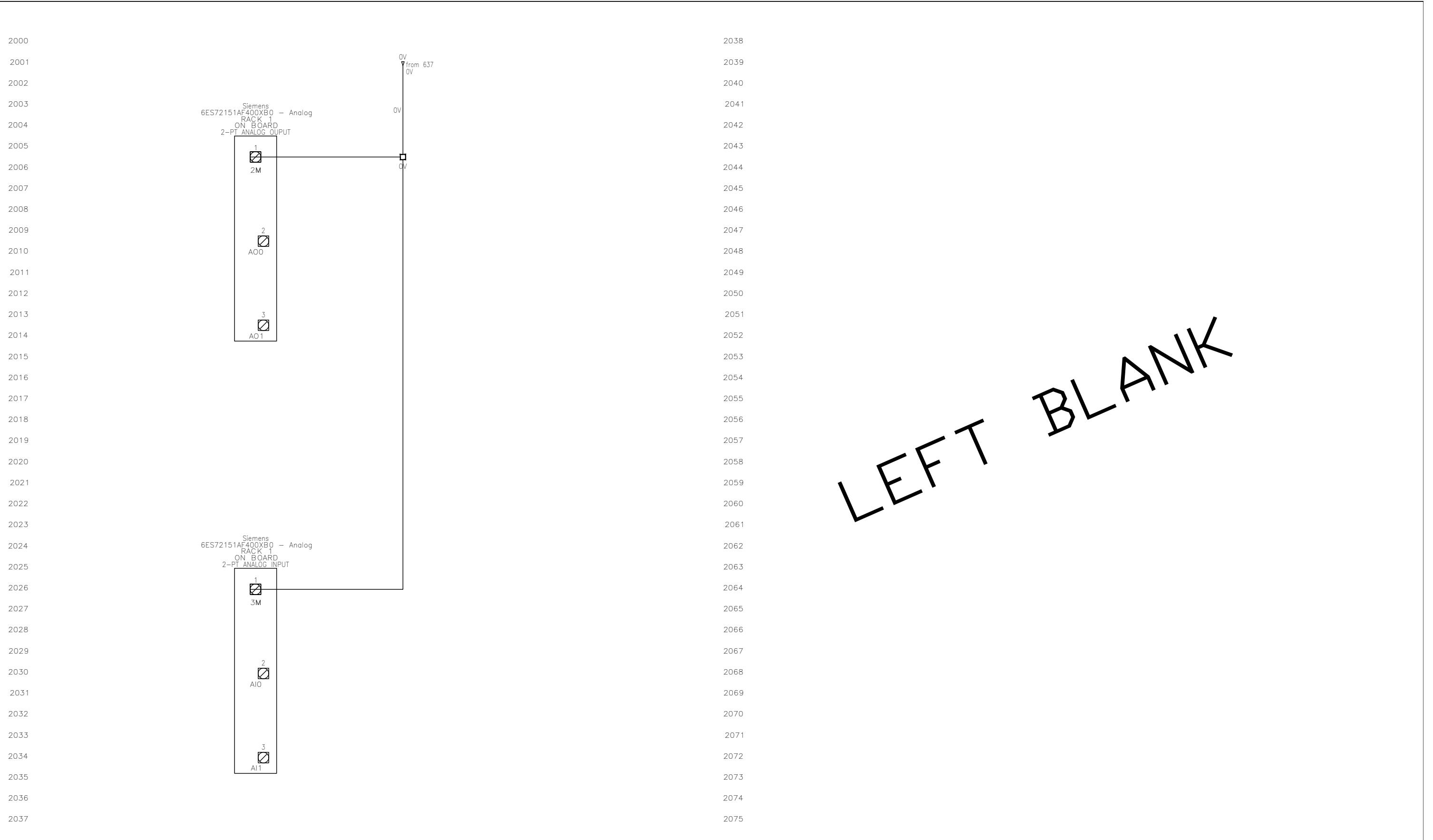
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY   Horlick ™	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022		18/01/2022	D-BG-115632	REV-G	
			CHK BY	DATE			N/A		
			APPR BY	DATE		BERKSHIRE GREY	N/A	SCALE N/A	
								SIZE B	
								SHEET 17 OF 42	



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DATE	DESCRIPTION	APPR.	BU	12/01/2022			PLC INPUTS	D-BG-115632	REV-G
CHK BY				DATE					SCALE N/A
				APPR BY	DATE				SIZE B
							BERKSHIRE GREY	N/A	SHEET 18 OF 42

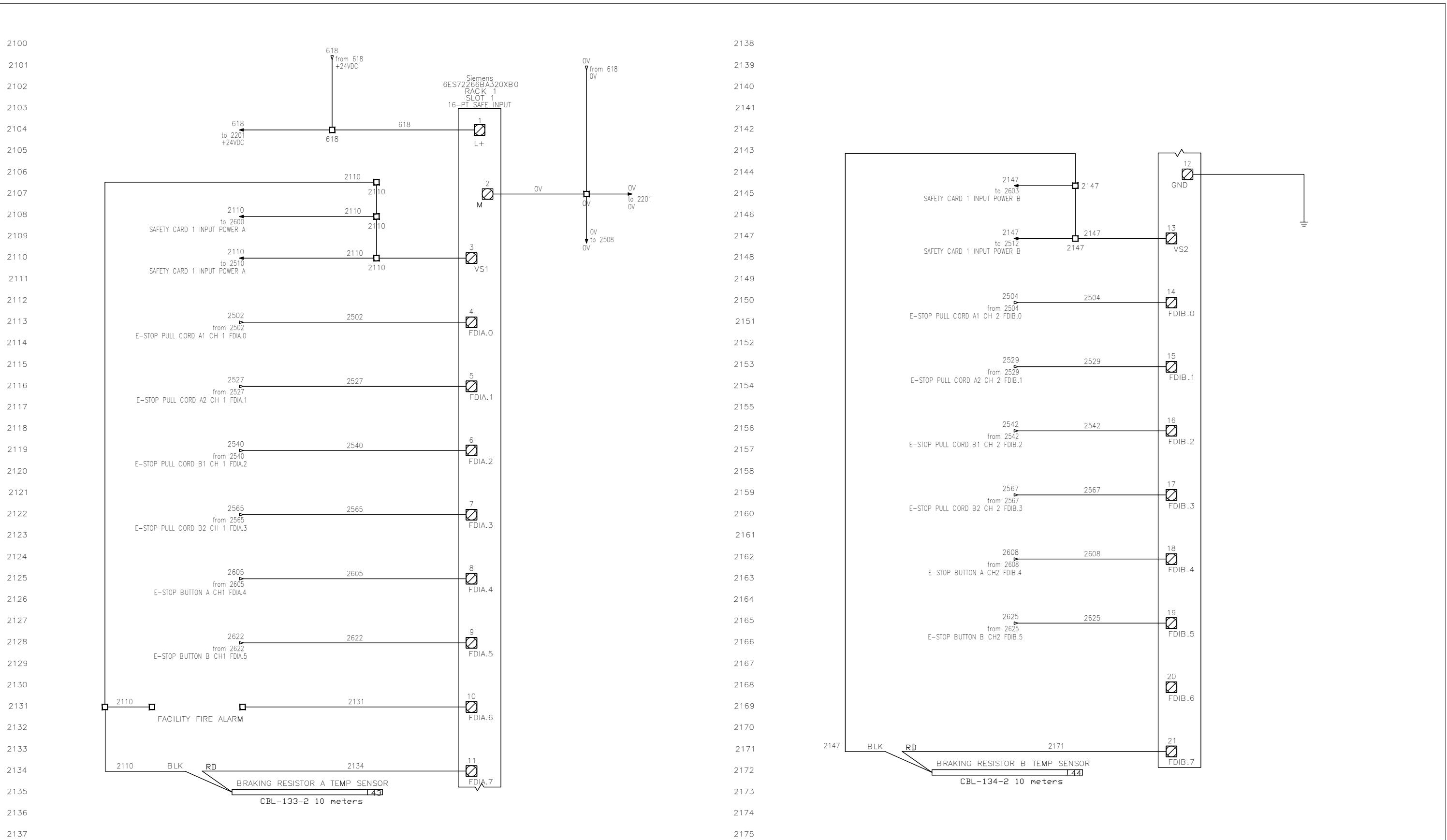


REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	BG115632		D-BG-115632	REV-G	
CHK BY				DATE	PLC OUTPUTS			SCALE N/A	
				APPR BY	CLIENT		JOB NO.	SIZE B	
				DATE	BERKSHIRE GREY		N/A	SHEET 19 OF 42	

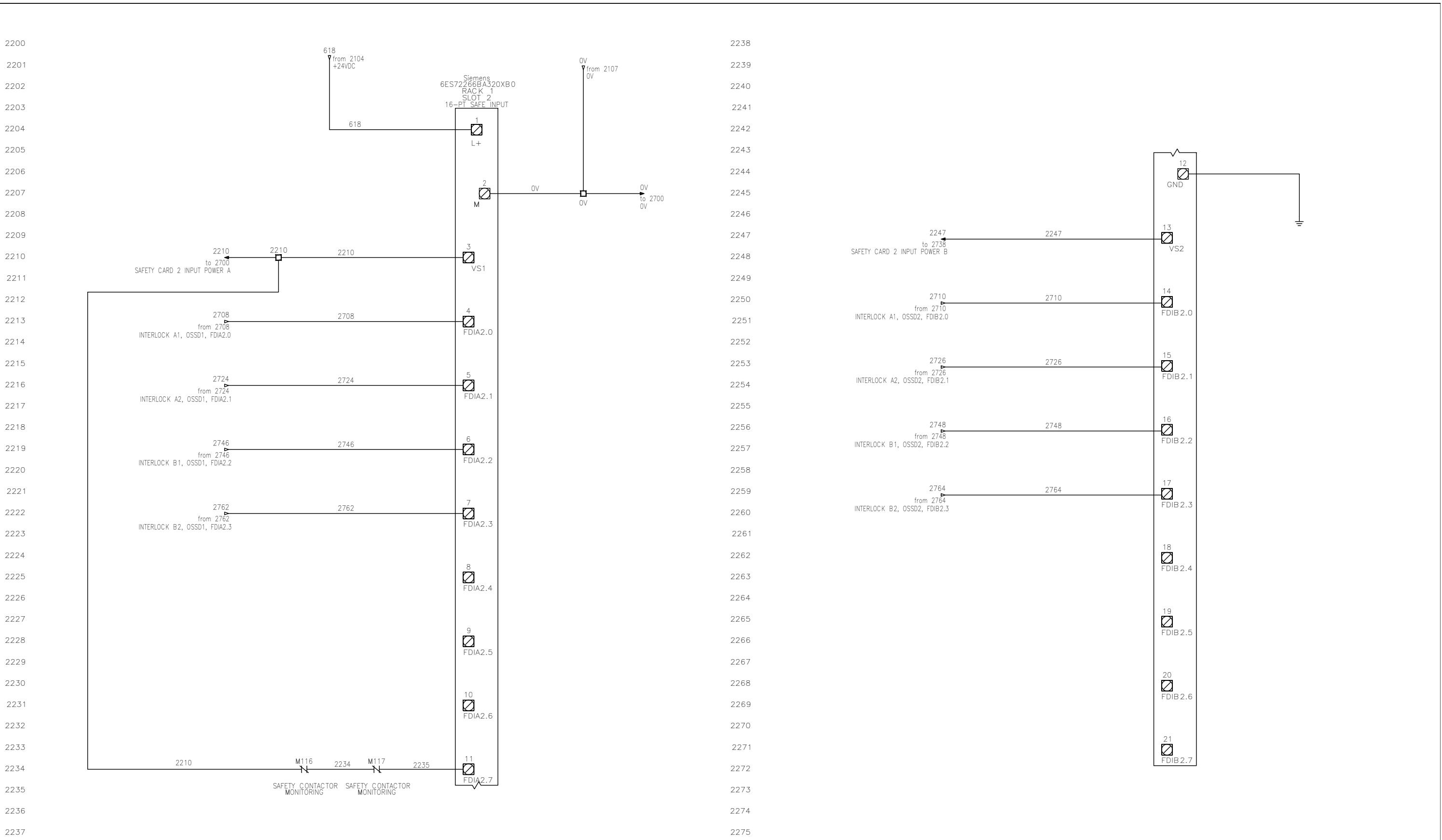


REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	BG115632		D-BG-115632	REV-G	
CHK BY					PLC ANALOG ONBOARD			N/A	
APPR BY					CLIENT	BERKSHIRE GREY	JOB NO.	B	
								N/A	SHEET 20 OF 42

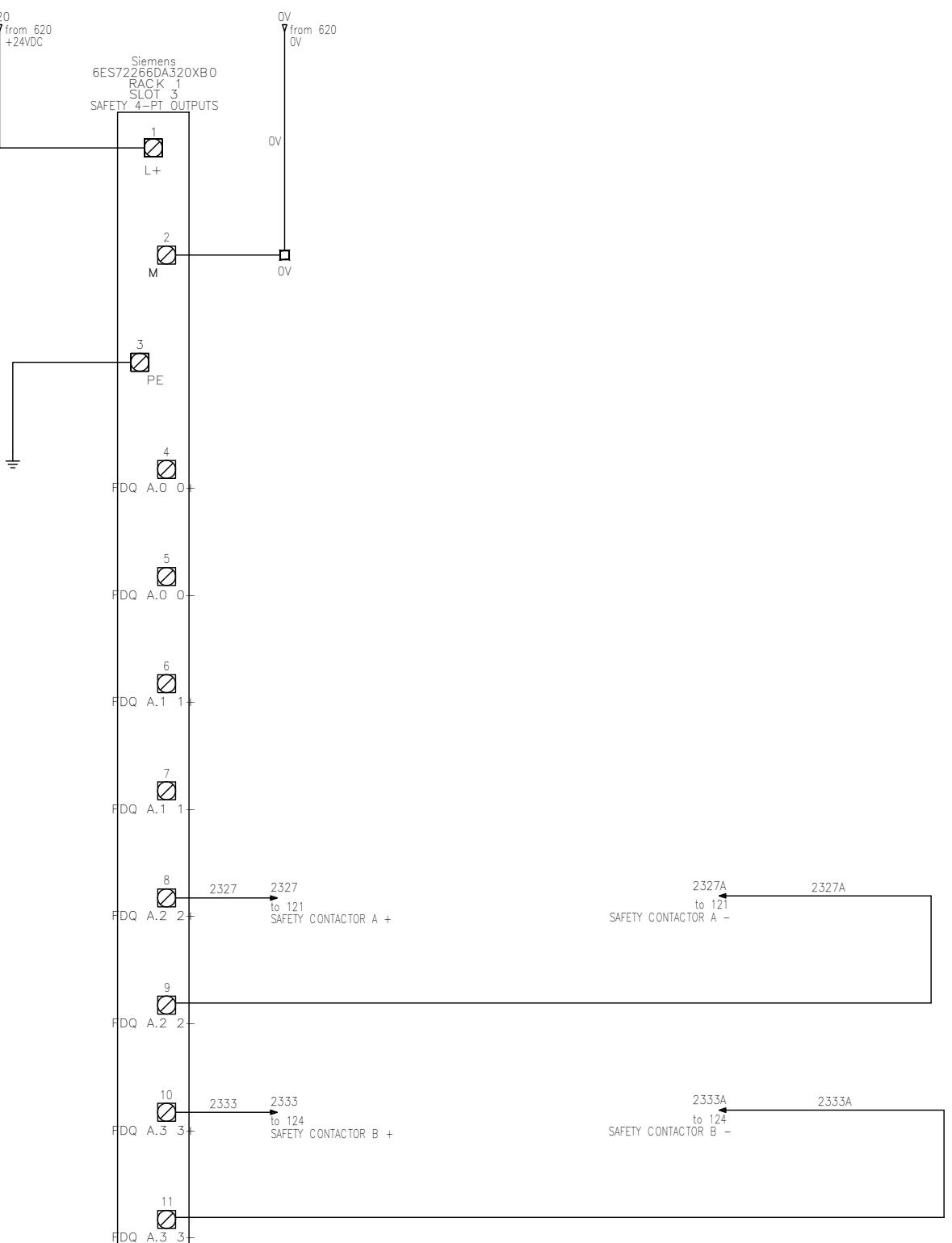




REVISIONS			DRAWN BY BU	DATE 12/01/2022	CONFIDENTIALITY NOTE:	 BERKSHIRE GREY  	TITLE BG115632 SAFETY INPUTS	DWG NO. D-BG-115632	REV REV-G
DATE	DESCRIPTION	APPR.	CHK BY	DATE	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.			SCALE N/A	SHEET 21 OF 42
			APPR BY	DATE				CLIENT BERKSHIRE GREY	
								JOB NO. N/A	



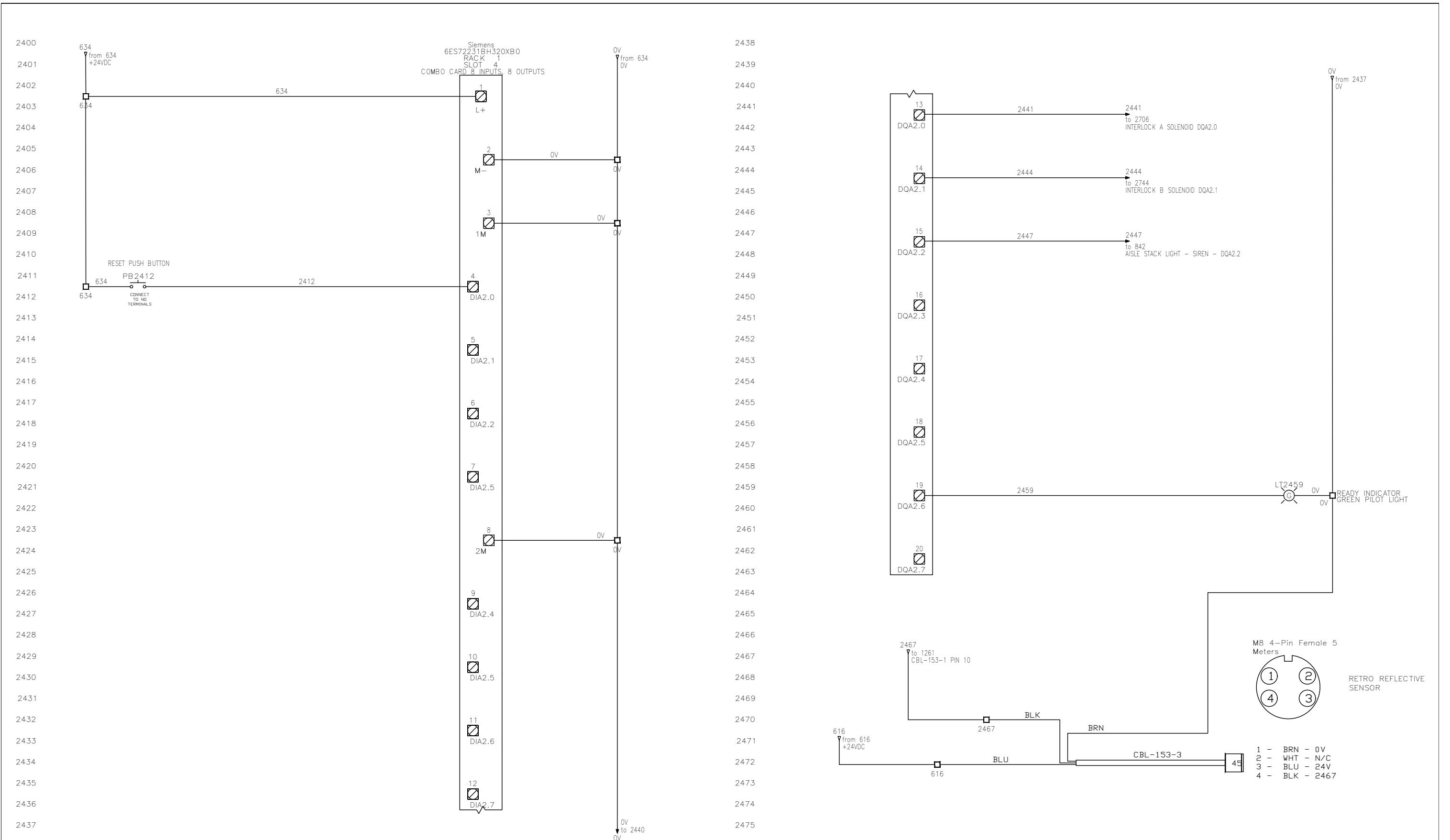
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	BG BERKSHIRE GREY	SJE	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.			BG115632 SAFETY INPUTS	D-BG-115632	REV-G
			CHK BY	DATE				CLIENT	JOB NO.	SCALE N/A
			APPR BY	DATE				BERKSHIRE GREY	N/A	SIZE B

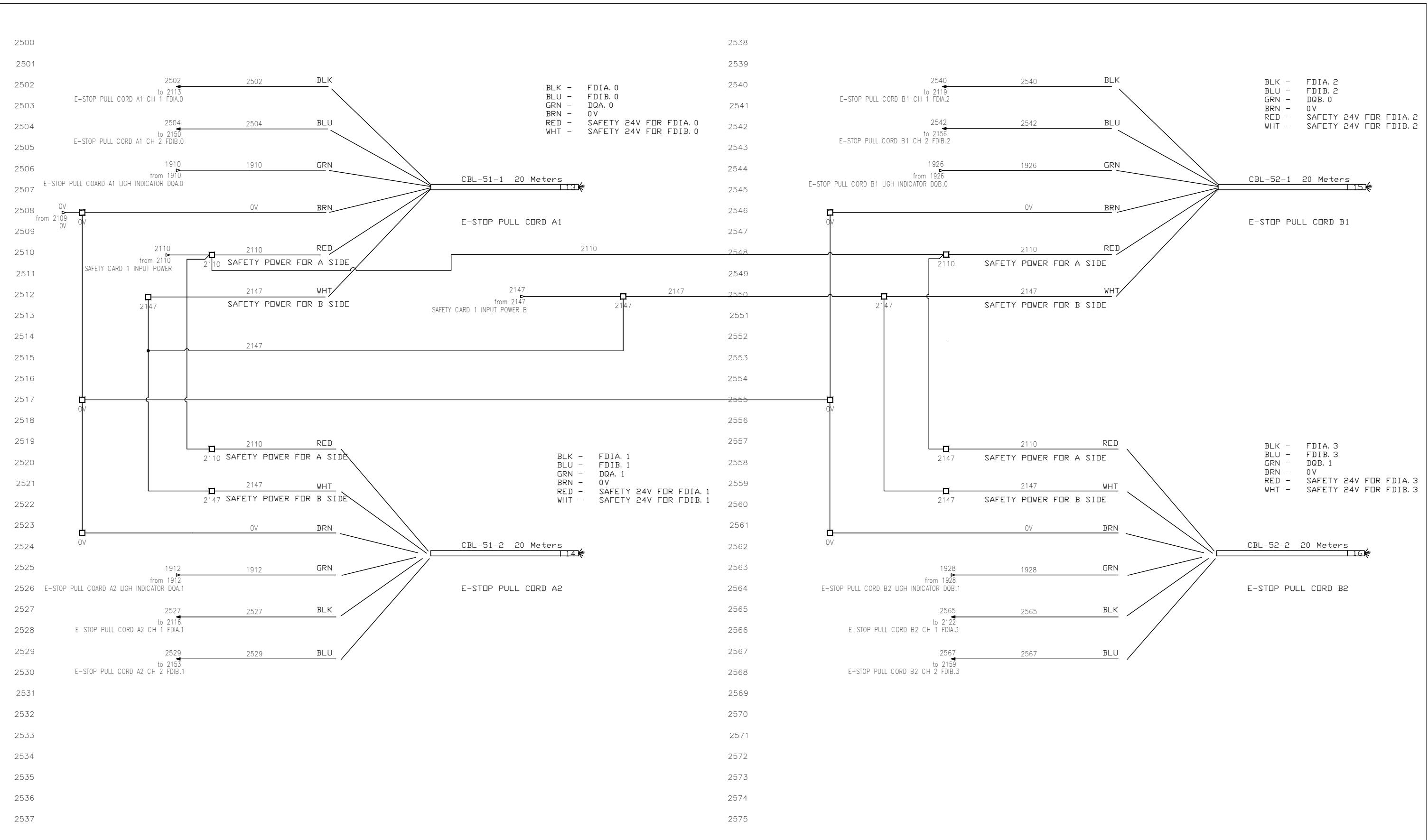


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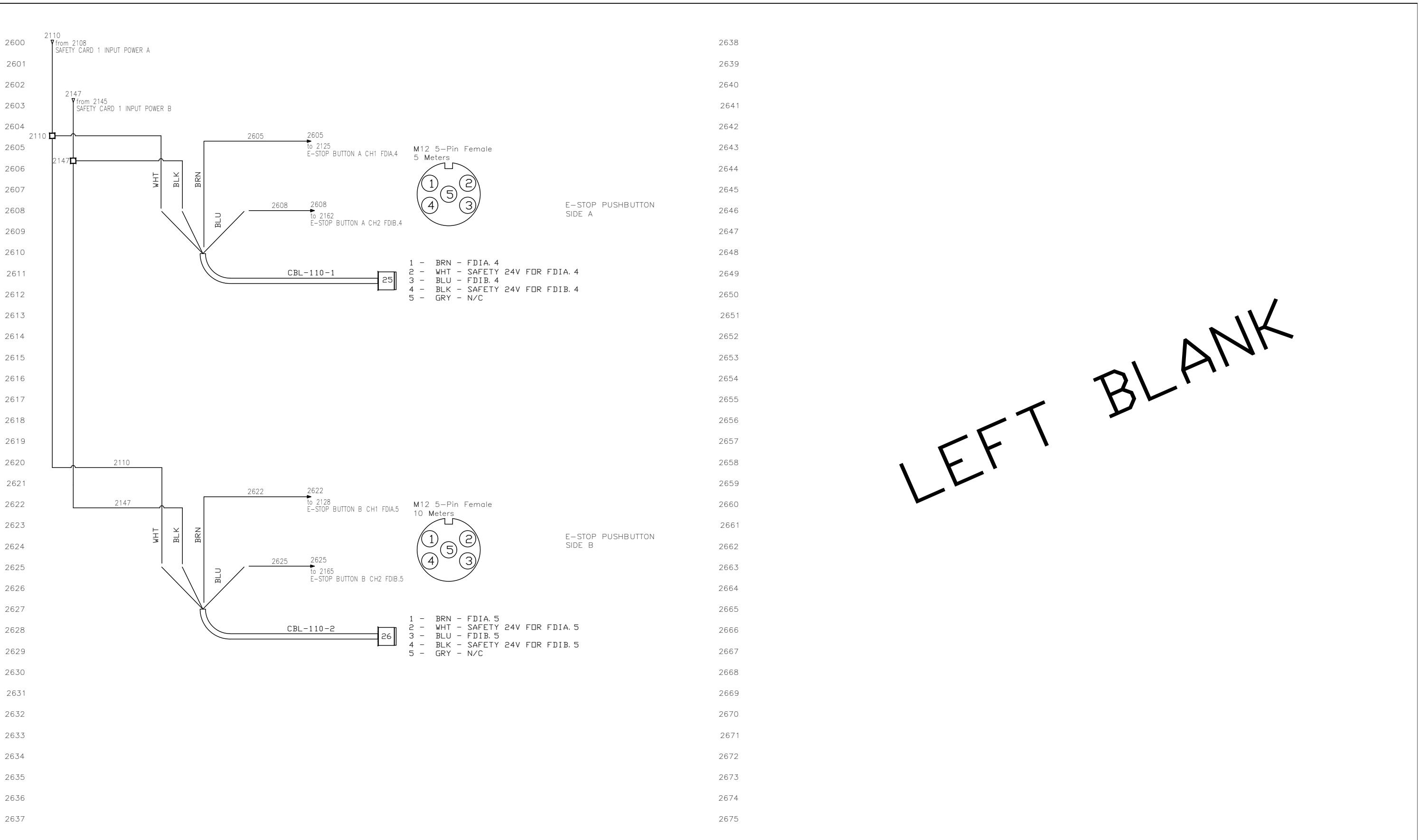
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022				SCALE
CHK BY								SIZE
						BG115632 SAFETY OUTPUTS	D-BG-115632	REV-G
						CLIENT	BERKSHIRE GREY	N/A
							JOB NO.	
							N/A	
								SHEET 23 OF 42





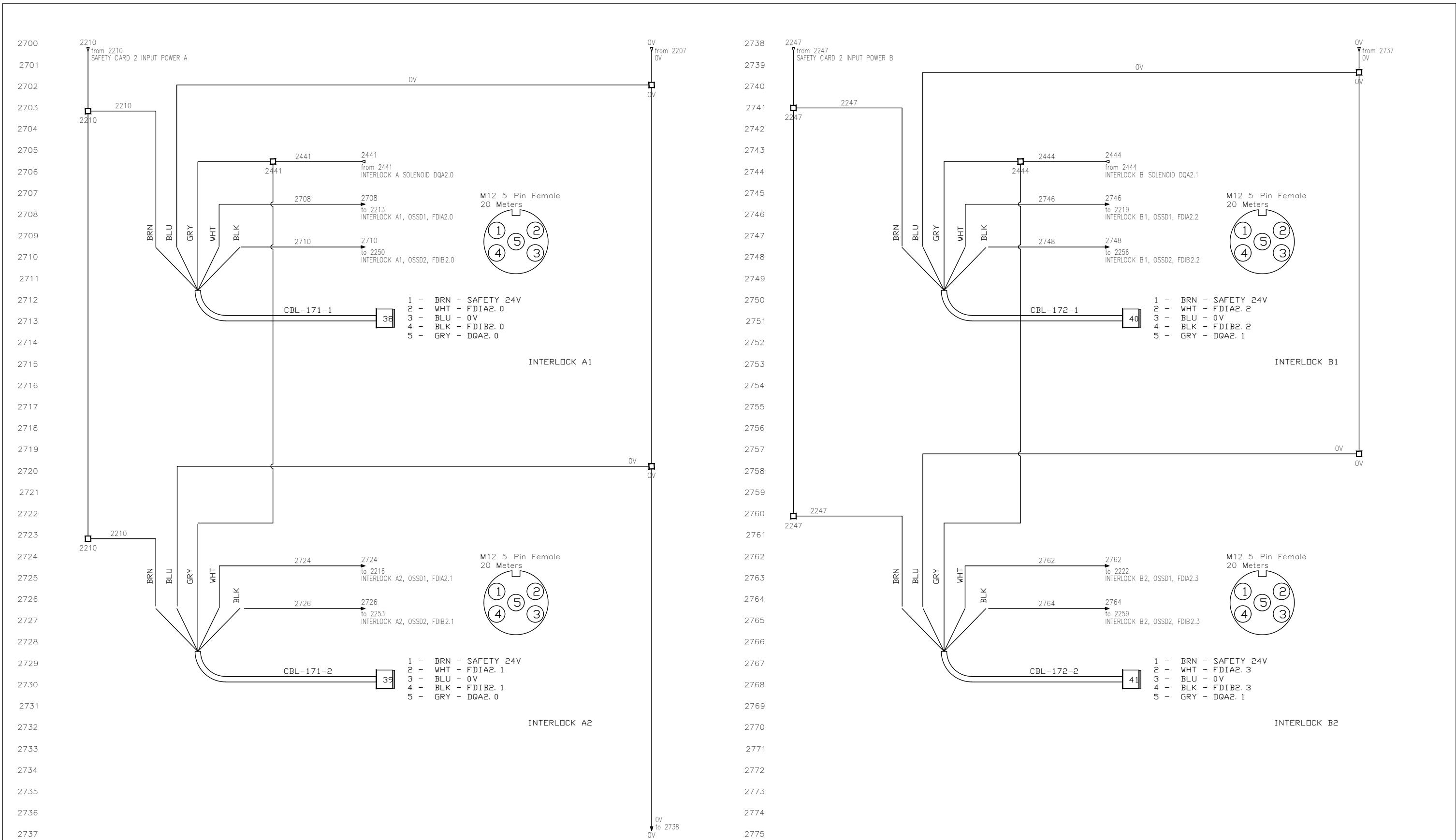


REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	BG115632	D-BG-115632	REV-G
CHK BY				DATE		Safety Wiring Assignment		SCALE N/A
APPR BY				DATE		CLIENT	JOB NO.	SIZE B
						BERKSHIRE GREY	N/A	SHEET 25 OF 42



REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	BG115632 SAFETY WIRING ASSIGNMENT	D-BG-115632	REV-G
CHK BY				DATE				SCALE N/A
APPR BY				DATE				SIZE B
						CLIENT	BERKSHIRE GREY	SHEET 26 OF 42





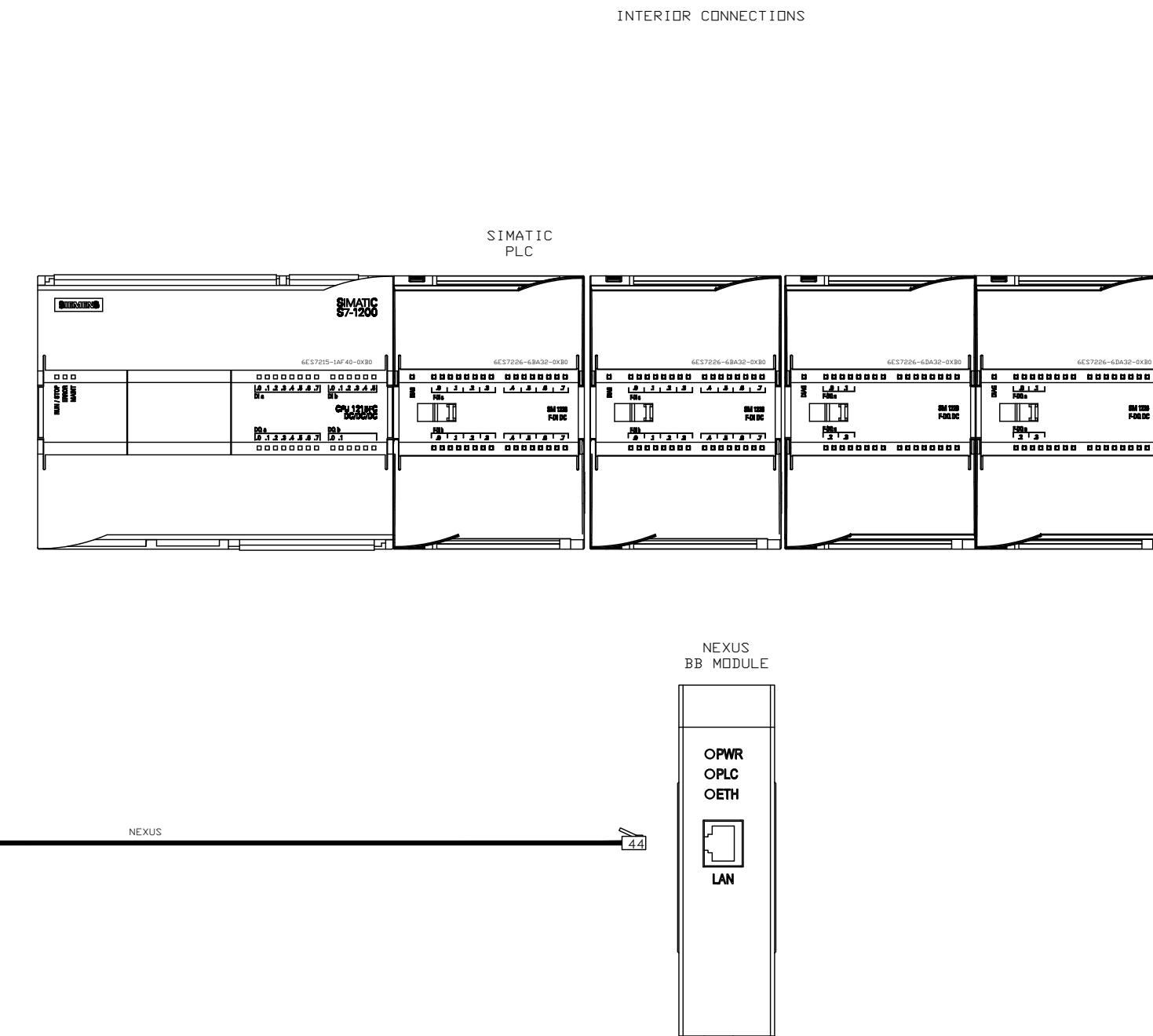
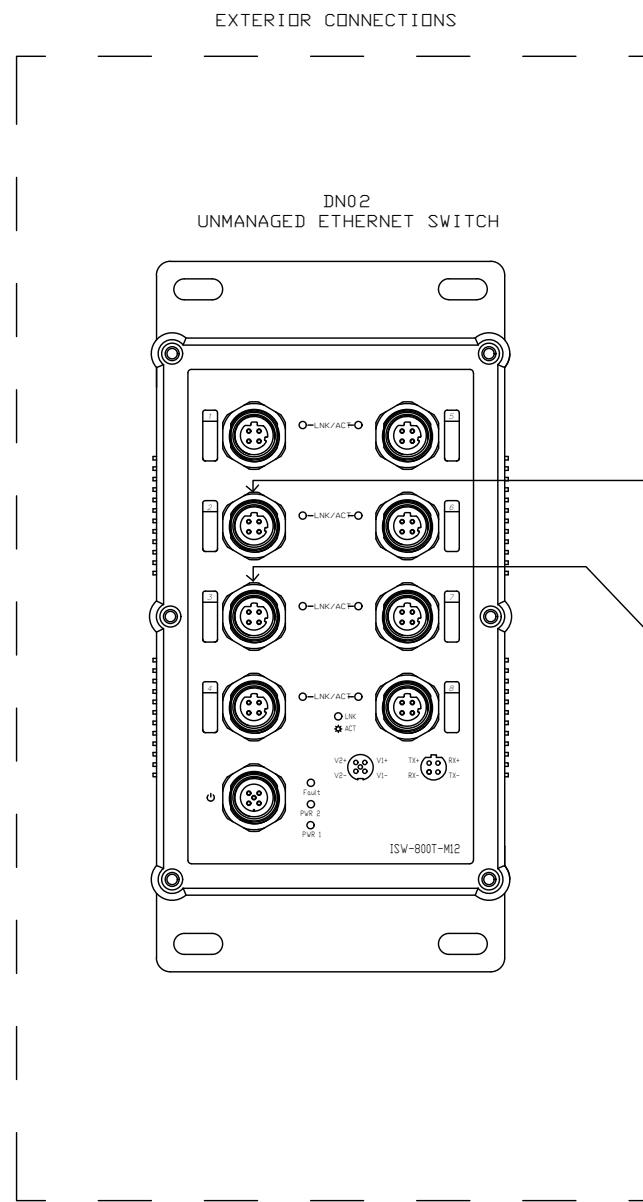
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	BG115632 SAFETY WIRING ASSIGNMENT	D-BG-115632	REV-G
CHK BY				DATE				SCALE N/A
APPR BY				DATE				SIZE B
						CLIENT	BERKSHIRE GREY	SHEET 27 OF 42

2800	2838
2801	2839
2802	2840
2803	2841
2804	2842
2805	2843
2806	2844
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2837	2875

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DATE	DESCRIPTION	APPR.	BU	12/01/2022				SCALE	N/A
								SIZE	B
						CLIENT	BERKSHIRE GREY	JOB NO.	N/A
									SHEET 28 OF 42

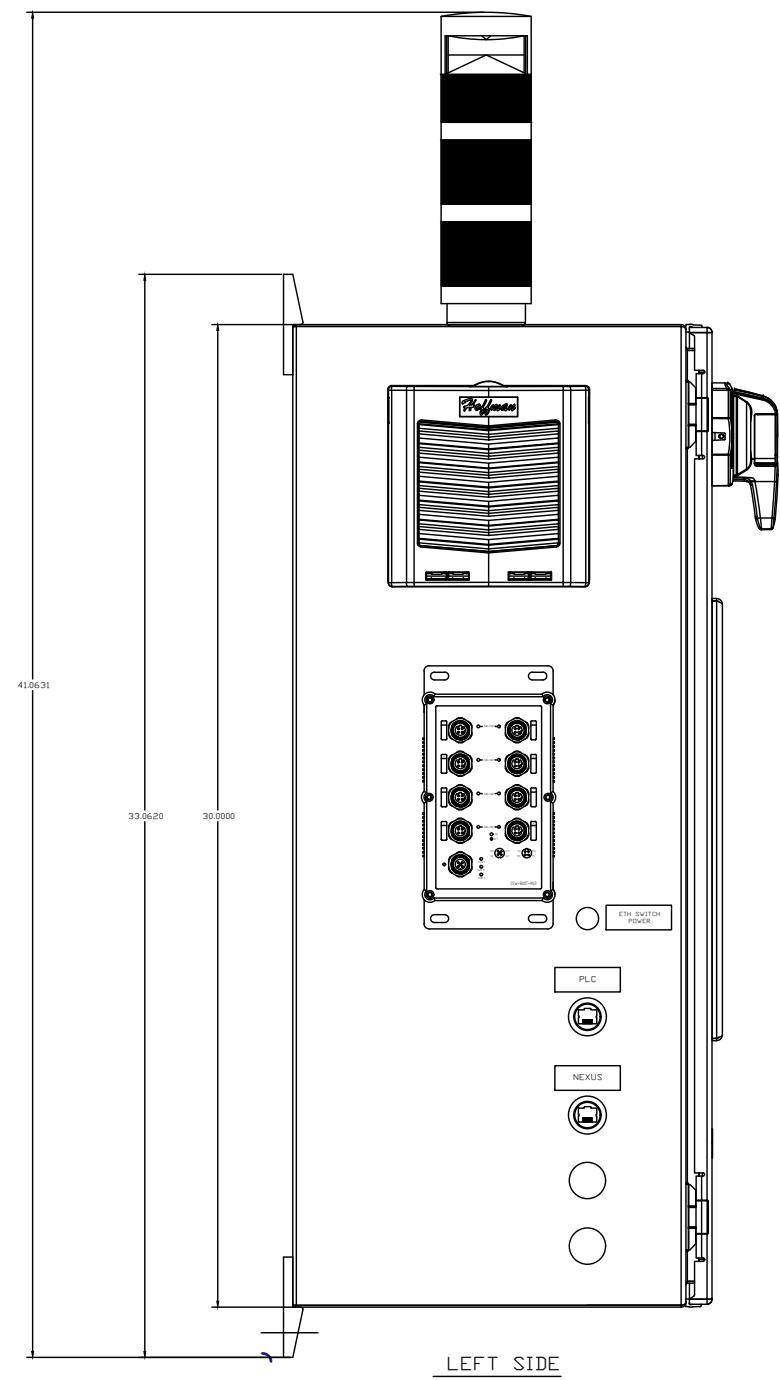




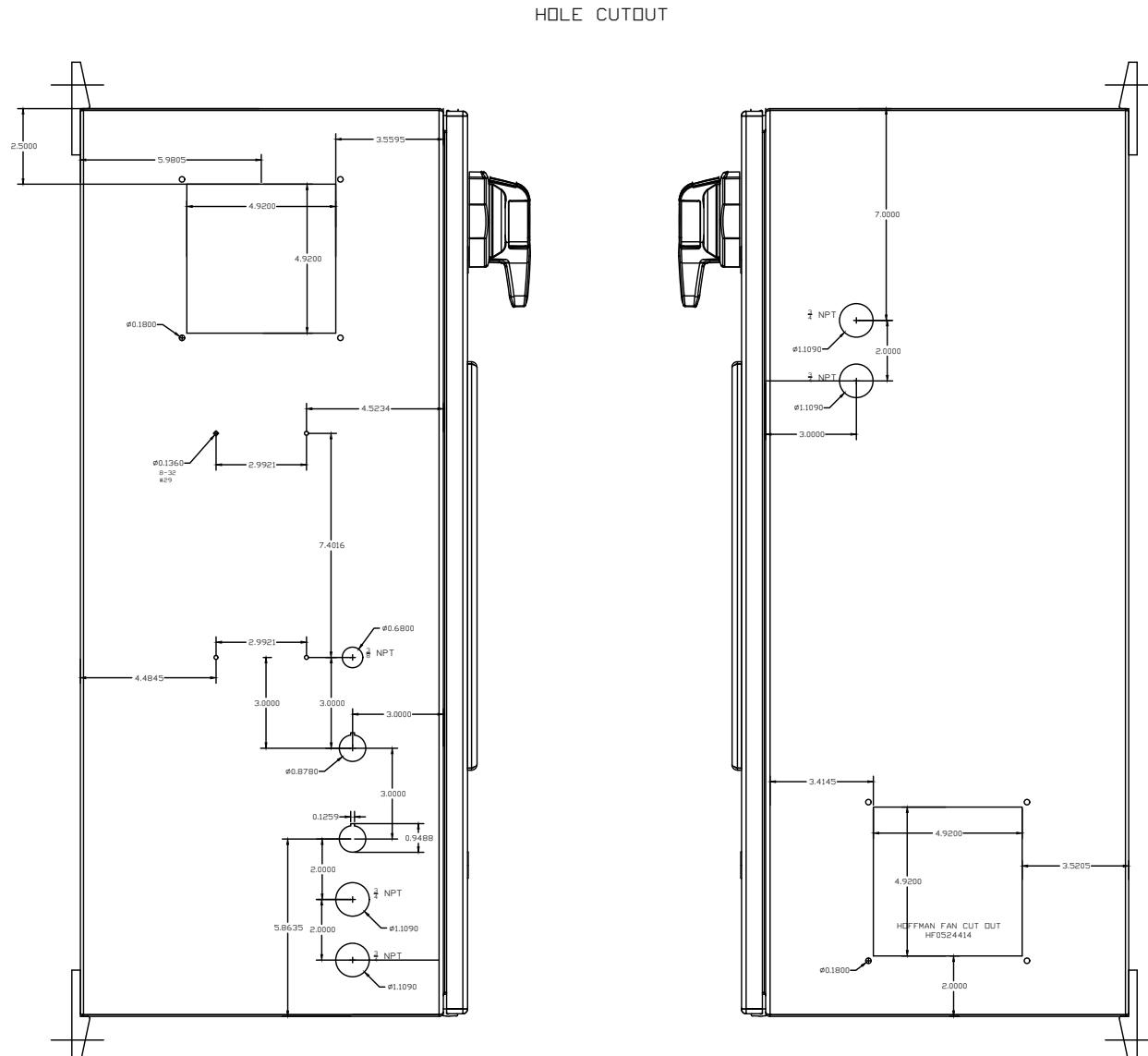
NOTES:

1. ALL CABLES SHOWN TO BE ETHERNET CAT-5E SHIELDED OR BETTER, TAGGED AT BOTH ENDS WITH END DEVICE TAG AS INDICATED.
2. SPECIFIC PORT NUMBERS SHOWN FOR ALL DEVICES TO BE USED AS INDICATED. DO NOT USE ALTERNATE PORT NUMBERS.
3. CUSTOMER RUN ETHERNET CABLE _____
4. INTERNAL ETHERNET CABLE (BY PANEL BUILDER)_____

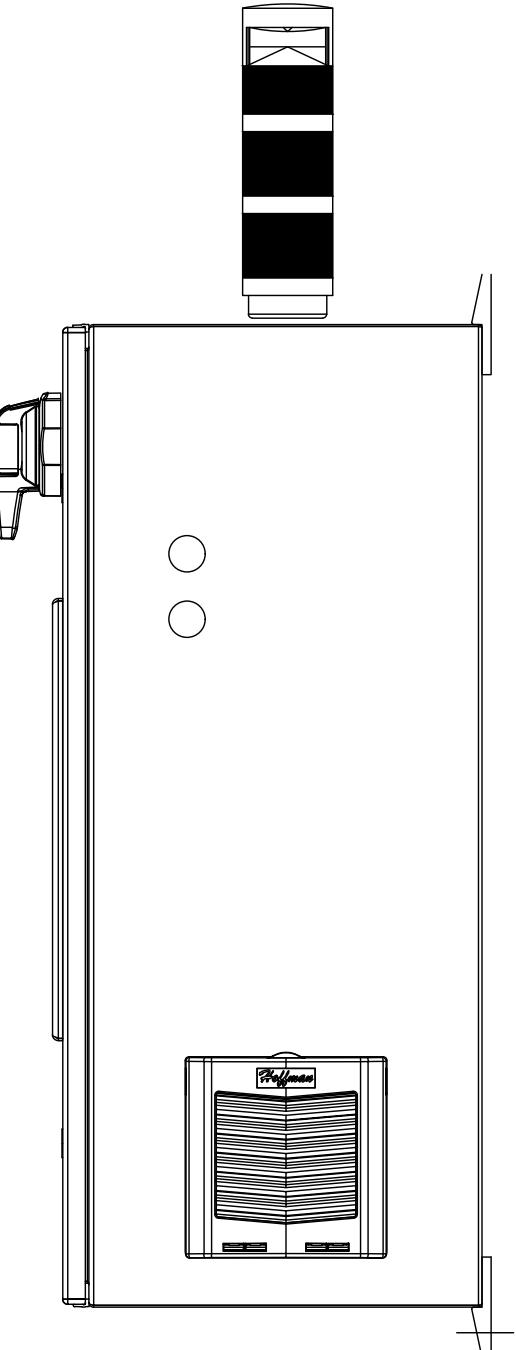
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	TITLE BG115632 NETWORK TELEMETRY CLIENT BERKSHIRE GREY	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022				REV-G
CHK BY								SCALE N/A
APPR BY								SIZE B
								SHEET 29 OF 42



LEFT SIDE

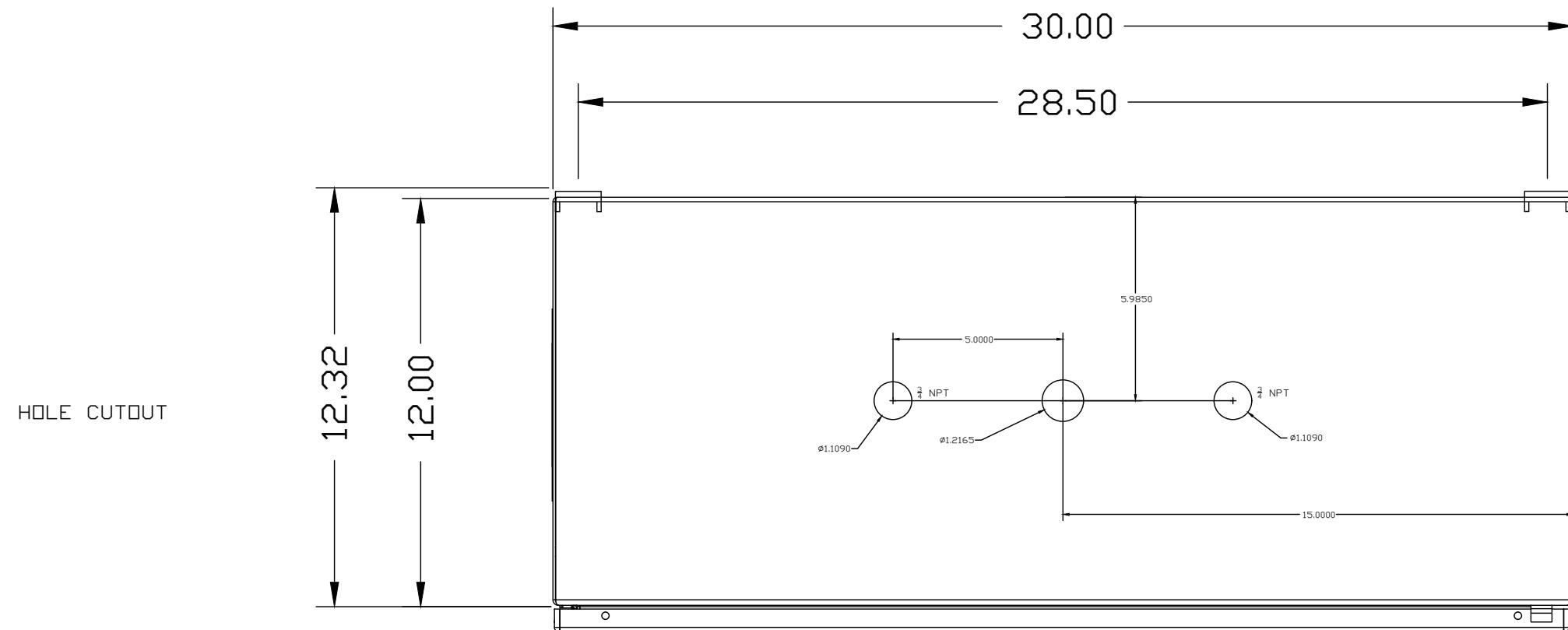
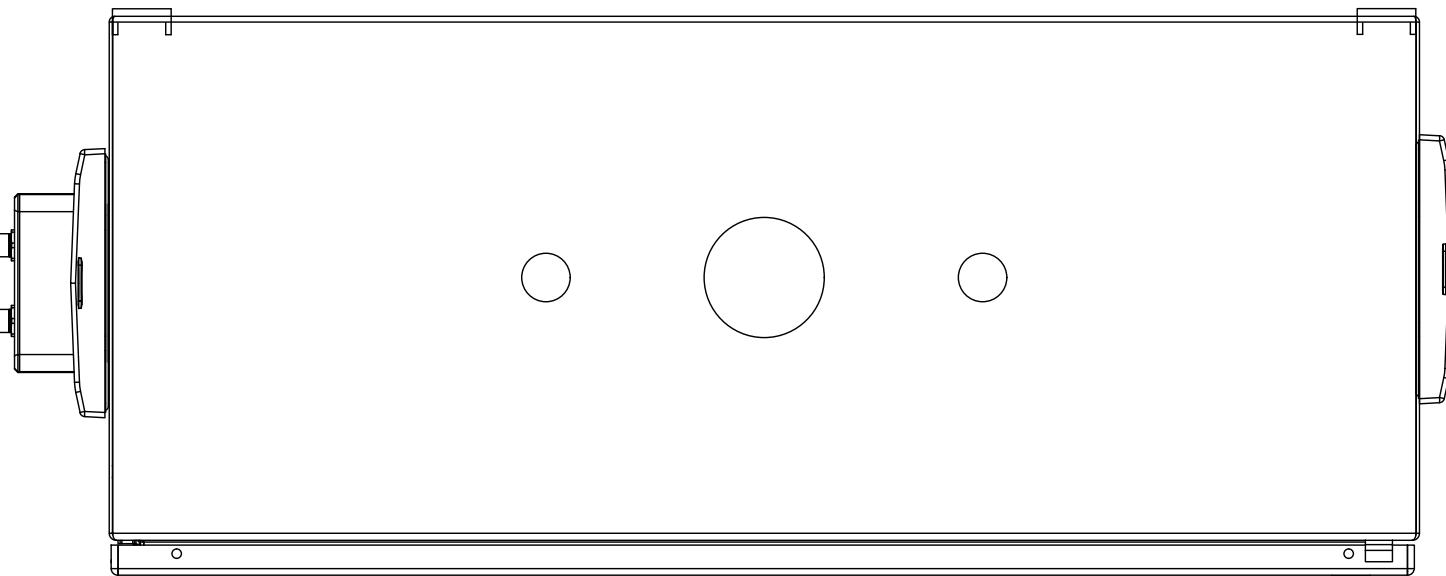


HOFFMAN CSD303012

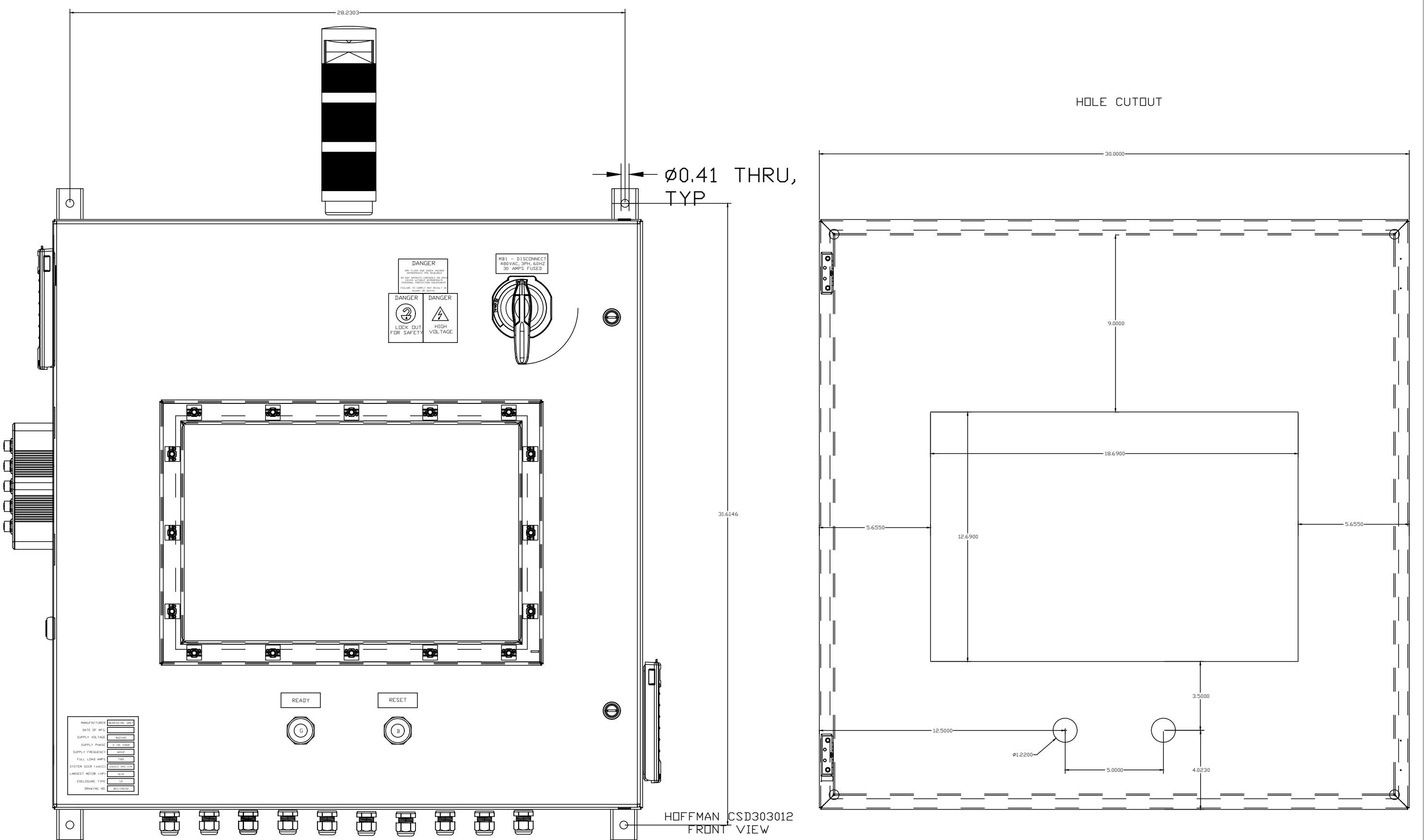


RIGHT SIDE

REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:		TITLE			DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022			BG115632 PANEL LAYOUT SIDE VIEWS			D-BG-115632	REV-G
			CHK BY	DATE						SCALE N/A	
			APPR BY	DATE						SIZE B	
							CLIENT			JOB NO.	
							BERKSHIRE GREY			N/A	
										SHEET 30 OF 42	

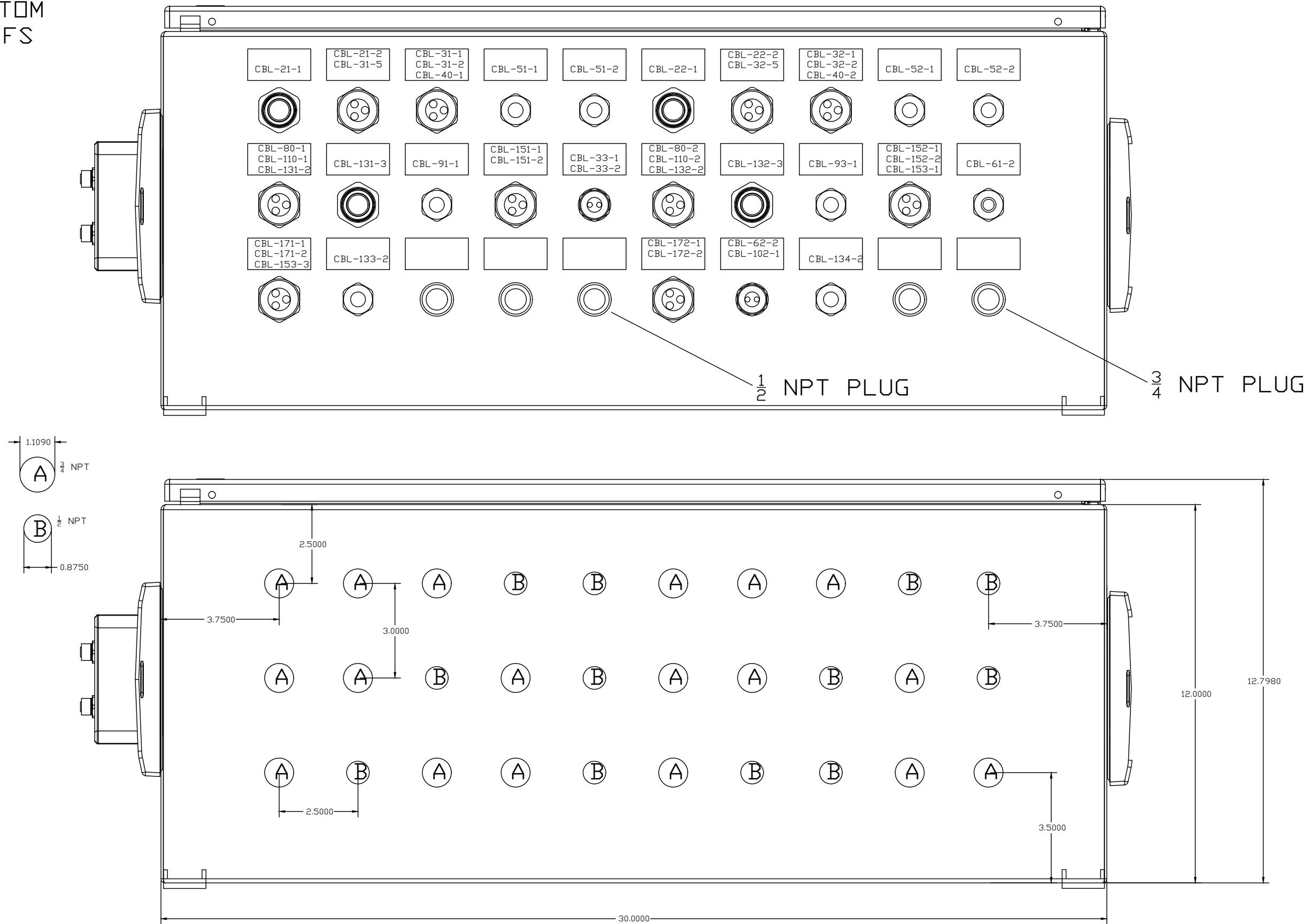


HOFFMAN CSD303012
TOP VIEW



REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	BG BERKSHIRE GREY SJE	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	BG BERKSHIRE GREY SJE	BG115632 PANEL LAYOUT FRONT VIEW	D-BG-115632	REV-G
			CHK BY	DATE			CLIENT	JOB NO.	SCALE
			APPR BY	DATE			BERKSHIRE GREY	N/A	N/A

CABINET BOTTOM CABLE CUTOFFS

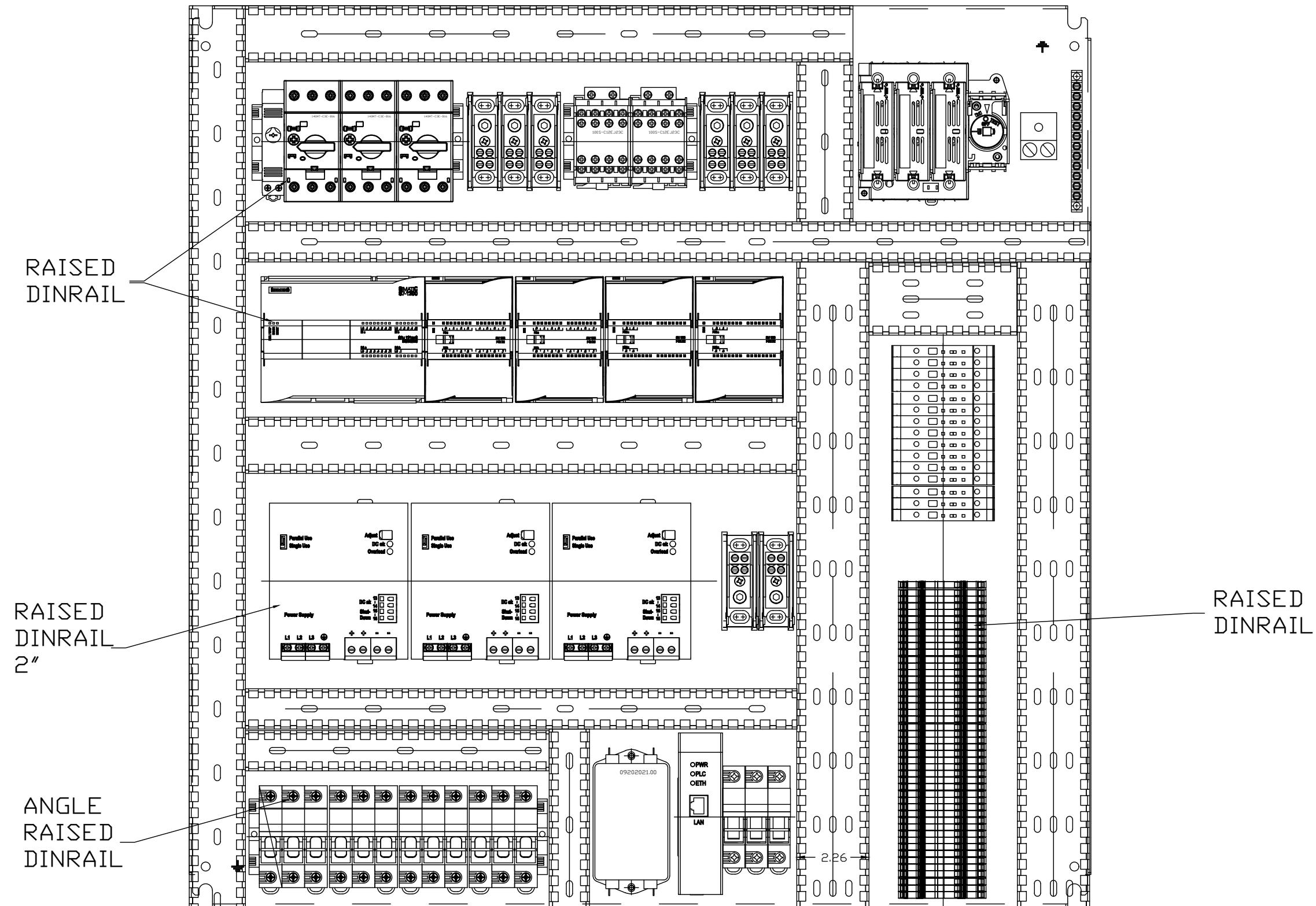


Cable #	Module Name	Cable Description	Connector 1 (External to Cabinet)	Connector 2 (Inside Cabinet)	Cable Reference (ID#)	Length	Manufacturer	Man. Part Number	Description
1	Cleated Conveyor Motor A	Main Motor Power	M16 7 -Pin Female	Flying Leads	CBL-21-1	5 Meters	JVL (Scott Equipment)	WP0505	115/230VAC Power Cable for MAC402 Servo Motor
2	Cleated Conveyor Motor A	Logic Power	M12 5-Pin Female	Flying Leads	CBL-21-2	5 Meters	Murr	7000-12241-0150500	M12 Yellow PVC Straight 5 pin 5 meters
4	Cleated Conveyor Motor B	Main Motor Power	M16 7-Pin Female	Flying Leads	CBL-22-1	5 Meters	JVL (Scott Equipment)	WP0505	115/230VAC Power Cable for MAC402 Servo Motor
5	Cleated Conveyor Motor B	Logic Power	M12 5-Pin Female	Flying Leads	CBL-22-2	5 Meters	Murr	7000-12241-0150500	M12 Yellow PVC Straight 5 pin 5 meters
7	Overfill Light Curtain A1	Receiver	M12 5-Pin Female	Flying Leads	CBL-31-1	20 Meters	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
8	Overfill Light Curtain A2	Receiver	M12 5-Pin Female	Flying Leads	CBL-31-2	10 Meters	Murr	7000-12241-0151000	M12 Yellow PVC Straight 5 pin 10 meters
9	Overfill Light Curtain B1	Receiver	M12 5-Pin Female	Flying Leads	CBL-32-1	20 Meters	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
10	Overfill Light Curtain B2	Receiver	M12 5-Pin Female	Flying Leads	CBL-32-2	10 Meters	Murr	7000-12241-0151000	M12 Yellow PVC Straight 5 pin 10 meters
11	Place Light Curtain Side A	Receiver	M12 5-Pin Female	Flying Leads	CBL-41-1	10 Meters	Murr	7000-12241-0151000	M12 Yellow PVC Straight 5 pin 10 meters
12	Place Light Curtain Side B	Receiver	M12 5-Pin Female	Flying Leads	CBL-41-2	10 Meters	Murr	7000-12241-0151000	M12 Yellow PVC Straight 5 pin 10 meters
13	E-Stop Pull Cord 1	Pull Cord 1	6-Conductor Flying Leads 26 AWG	Flying Leads	CBL-51-1	20 Meters	General	C2466A	6C 26AWG Multiconductor cable
14	E-Stop Pull Cord 2	Pull Cord 2	6-Conductor Flying Leads 26 AWG	Flying Leads	CBL-51-2	20 Meters	General	C2466A	6C 26AWG Multiconductor cable
15	E-Stop Pull Cord 3	Pull Cord 3	6-Conductor Flying Leads 26 AWG	Flying Leads	CBL-52-1	20 Meters	General	C2466A	6C 26AWG Multiconductor cable
16	E-Stop Pull Cord 4	Pull Cord 4	6-Conductor Flying Leads 26 AWG	Flying Leads	CBL-52-2	20 Meters	General	C2466A	6C 26AWG Multiconductor cable
17A	Pick Station HMI	HMI	2-Conductor Flying Leads	Flying Leads	CBL-61-2	10 Meters	Anixter	2A-1802	18/2 AWG Unshielded Black PVC Cable
17B	Aisle HMI	HMI	2-Conductor Flying Leads	Flying Leads	CBL-62-2	20 Meters	Anixter	2A-1802	18/2 AWG Unshielded Black PVC Cable
18	Light Curtain TX Power A	Light Curtain TX Power A	M12 4-Pin Female	Flying Leads	CBL-33-1	10 Meters	Murr	7000-12221-6141000	M12 Black PVC Straight 4 pin 10 meters
19	Light Curtain TX Power B	Light Curtain TX Power B	M12 4-Pin Female	Flying Leads	CBL-33-2	10 Meters	Murr	7000-12221-6141000	M12 Black PVC Straight 4 pin 10 meters
20	Job Compete Button A	Side A	M12 5-Pin Female	Flying Leads	CBL-80-1	5 Meters	Murr	7000-12241-2150500	M12 Grey PVC Straight 5 pin 5 meters
21	Job Compete Button B	Side B	M12 5-Pin Female	Flying Leads	CBL-80-2	5 Meters	Murr	7000-12241-2150500	M12 Grey PVC Straight 5 pin 5 meters
22	Power Rail A	Shuttle & Kicker Power	3 Conductor SOOW Flying Leads	Flying Leads	CBL-91-1	10 Meters	Anixter	4A-1603	Cable, SOOW, Black Outer Insulation, 16/3 AWG
23	Power Rail B	Shuttle & Kicker Power	3 Conductor SOOW Flying Leads	Flying Leads	CBL-93-1	10 Meters	Anixter	4A-1603	Cable, SOOW, Black Outer Insulation, 16/3 AWG

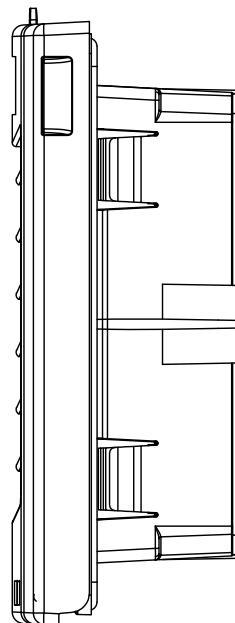
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	12/01/2022	BG115632 & BG116111 CABLE LIST			N/A		
		CHK BY	DATE	CLIENT			JOB NO.	SCALE	
		APPR BY	DATE					SIZE	
				BERKSHIRE GREY		SHEET 34 OF 42			

Cable #	Module Name	Cable Description	Connector 1 (External to Cabinet)	Connector 2 (Inside Cabinet)	Cable Reference (ID#)	Length	Manufacturer	Man. Part Number	Description
24	Aisle Stack Light		M12 5-Pin Female	Flying Leads	CBL-102-1	20 Meter	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
25	E-Stop EPB01	Pushbutton Side A	M12 5-Pin Female	Flying Leads	CBL-110-1	5 Meter	Murr	7000-12241-0150500	M12 Yellow PVC Straight 5 pin 5 meters
26	E-Stop EPB02	Pushbutton Side B	M12 5-Pin Female	Flying Leads	CBL-110-2	10 Meter	Murr	7000-12241-6151000	M12 Black PVC Straight 5 pin 10 meters
27	Slide A	Power Cable	M23 6-Pin Female	Flying	CBL-131-3	10 Meter	Turck	CKWM 622-059-10M	Yellow PVC Right Angle 6/12AWG 600V Modified to Flying
28	Slide B	Power Cable	M23 6-Pin Female	Flying	CBL-132-3	10 Meter	Turck	CKWM 622-059-10M	Yellow PVC Right Angle 6/12AWG 600V Modified to Flying
29	Slide A	Logic Power	M12 5-Pin Female	Flying Leads	CBL-131-2	10 Meter	Murr	7000-12241-0151000	M12 Yellow PVC Straight 5 pin 10 meters
30	Slide B	Logic Power	M12 5-Pin Female	Flying Leads	CBL-132-2	10 Meter	Murr	7000-12241-0151000	M12 Yellow PVC Straight 5 pin 10 meters
31	Overfull Light Curtain A1	Transmitter Power	M12 5-Pin Female	Flying Leads	CBL-31-5	20 Meter	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
32	Overfull Light Curtain B1	Transmitter Power	M12 5-Pin Female	Flying Leads	CBL-32-5	20 Meter	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
33	Barcode Scanner A1	Scanner Power	M12 12-Pin Female	Flying Leads	CBL-151-1	10 Meter	Murr	7000-19041-7021000	M12 Black PVC Straight 12 pin 10 meters
34	Barcode Scanner A2	Scanner Power	M12 12-Pin Female	Flying Leads	CBL-151-2	10 Meter	Murr	7000-19041-7021000	M12 Black PVC Straight 12 pin 10 meters
35	Barcode Scanner B1	Scanner Power	M12 12-Pin Female	Flying Leads	CBL-152-1	10 Meter	Murr	7000-19041-7021000	M12 Black PVC Straight 12 pin 10 meters
36	Barcode Scanner B2	Scanner Power	M12 12-Pin Female	Flying Leads	CBL-152-2	10 Meter	Murr	7000-19041-7021000	M12 Black PVC Straight 12 pin 10 meters
37	Barcode Scanner Donor	Scanner Power	M12 17-Pin Female	Flying Leads	CBL-153-1	10 Meter	Phoenix	1555376	Black, M12 Cordset Female Straight 17-Pin 10 Meters Long
38	Interlock A1	Power Signal	M12 5-Pin Female	Flying Leads	CBL-171-1	20 Meters	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
39	Interlock A2	Power Signal	M12 5-Pin Female	Flying Leads	CBL-171-2	20 Meters	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
40	Interlock B1	Power Signal	M12 5-Pin Female	Flying Leads	CBL-172-1	20 Meters	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
41	Interlock B2	Power Signal	M12 5-Pin Female	Flying Leads	CBL-172-2	20 Meters	Murr	7000-12241-0152000	M12 Yellow PVC Straight 5 pin 20 meters
42	Unmanaged Switch	Power	M12 5-Pin Female	Flying Leads	CBL-161-1		Planet		Provided with Ethernet Switch
43	Braking Resistor A Temp Sensor	Temp Sensor	2C/18AWG	Flying Leads	CBL-133-2	10 Meters	Anixter	ALPHA-1897C	Cable, Gray Outer Insulation, 18/2 AWG
44	Braking Resistor B Temp Sensor	Temp Sensor	2C/18AWG	Flying Leads	CBL-134-2	10 Meters	Anixter	ALPHA-1897C	Cable, Gray Outer Insulation, 18/2 AWG
45	Retro-Reflective Sensor	Sensor	M8 4-Pin Female	Flying Leads	CBL-153-3	5 Meters	Murr	7000-08061-6110500	M8 Black PVC Straight 4 pin 20 meters

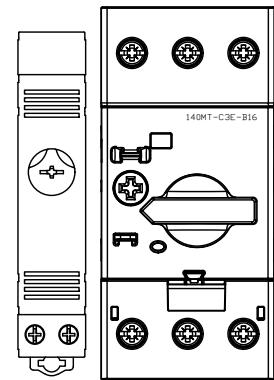
REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE	BG115632 & BG116111 CABLE LIST	DWG NO.	REV G
DATE	DESCRIPTION	APPR.	BU	12/01/2022					D-BG-115632	
			CHK BY	DATE			CLIENT		JOB NO.	N/A
			APPR BY	DATE			BERKSHIRE GREY			B



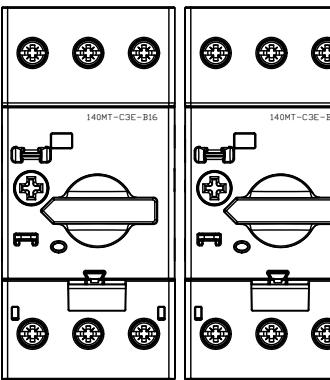
DISC110



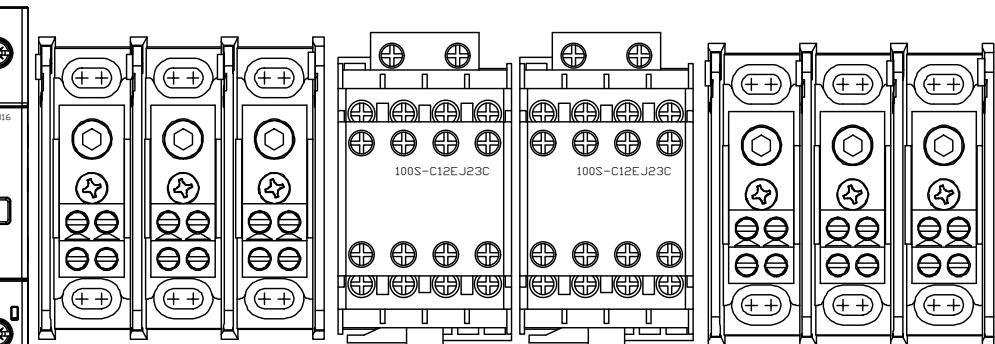
CB266



CB469 TB116

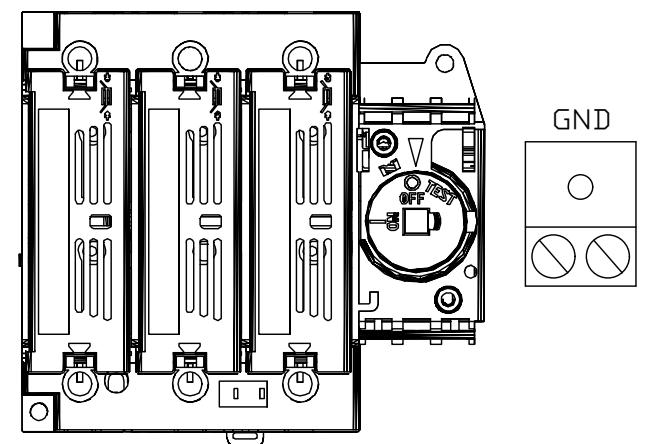


M116 M117 TB123

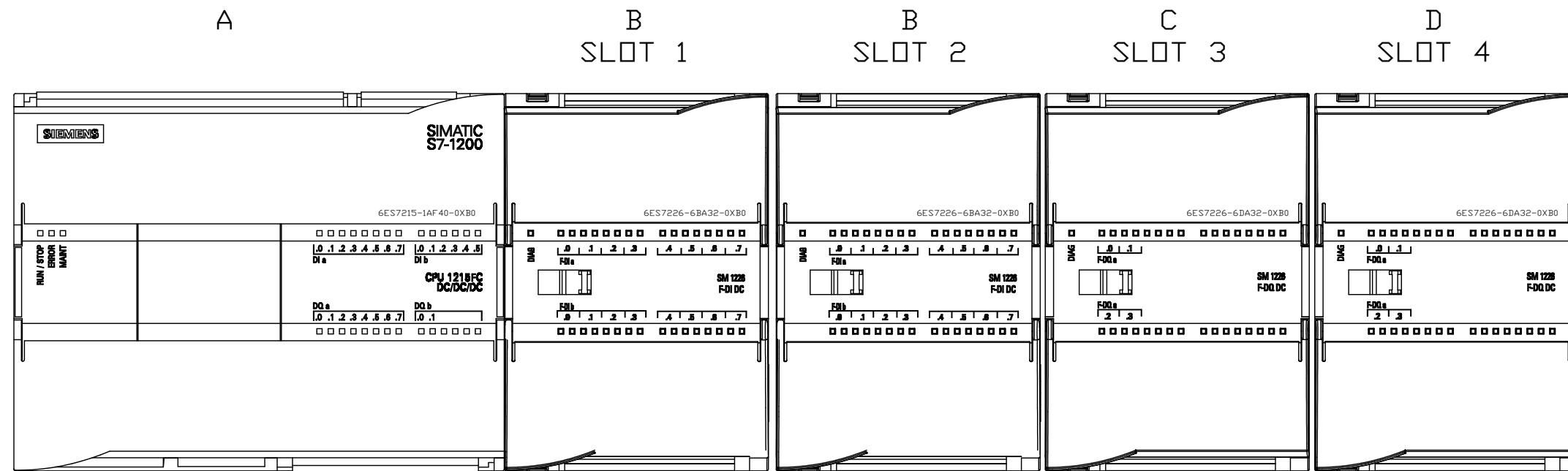


TAS622

CB462



REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	TITLE		DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	BG115632 BACKPANEL TOP ROW	D-BG-115632	REV-G	
			CHK BY	DATE		SJE		N/A	SCALE
			APPR BY	DATE		Horlick	BERKSHIRE GREY	N/A	SIZE

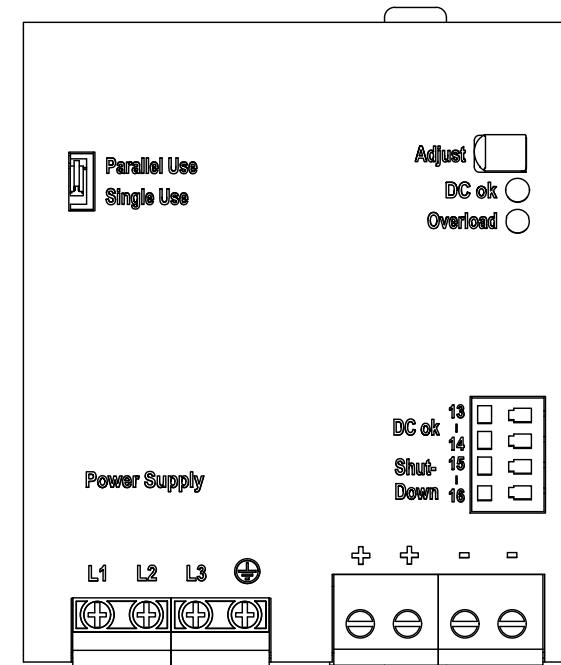


A SIEMENS 6ES72151AF400XB
B SIEMENS 6ES72266BA320X
C SIEMENS 6ES72266DA320X
D SIEMENS 6ES72231BH320X

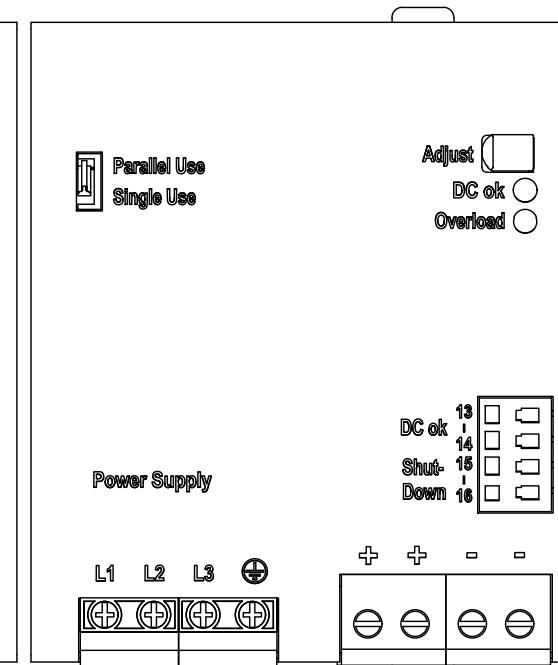
PLC
SAFETY INPUT CARD
SAFETY OUTPUT CARD
DIGITAL I/O MODULE

REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	 SJE Horlick™	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.		BG115632	D-BG-115632	REV-G
			CHK BY	DATE			PLC LAYOUT		SCALE N/A
			APPR BY	DATE			CLIENT	JOB NO.	SIZE B
						BERKSHIRE GREY		N/A	SHEET 38 OF 42

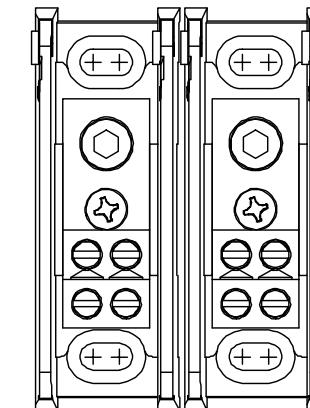
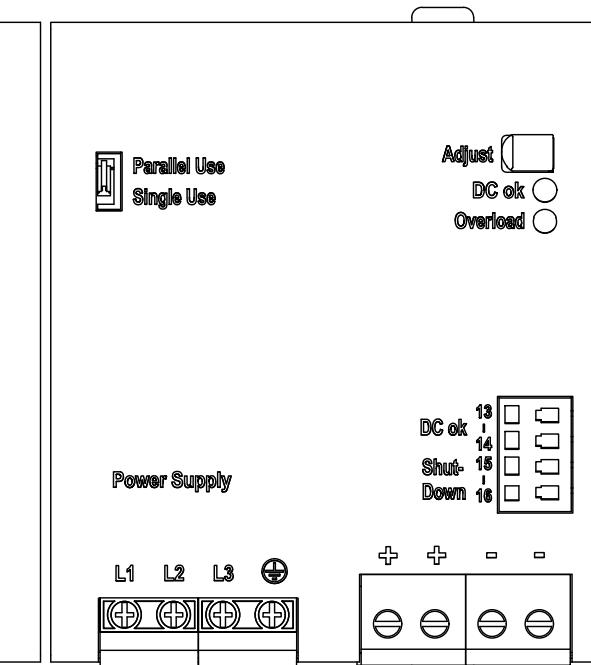
PWS469
72V DC



PWS462
48V DC



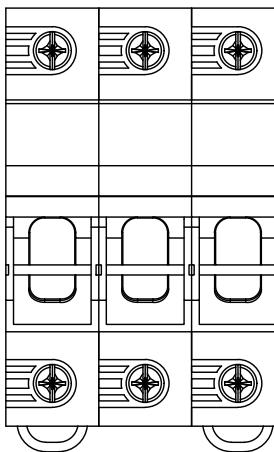
PWS266
24V DC



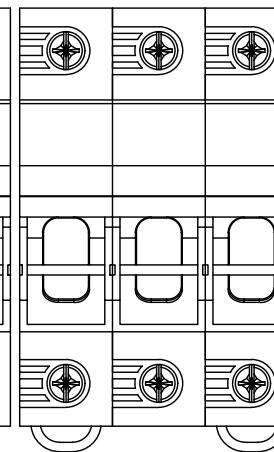
DISTRIBUTION
BLOCK
+24V 0V

REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:		The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	TITLE	DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	CHK BY	DATE		BG115632	D-BG-115632	REV-G
					APPR BY	DATE		BACKPANEL LAYOUT PWS	BERKSHIRE GREY	N/A
										SCALE N/A
										SIZE B
										SHEET 39 OF 42

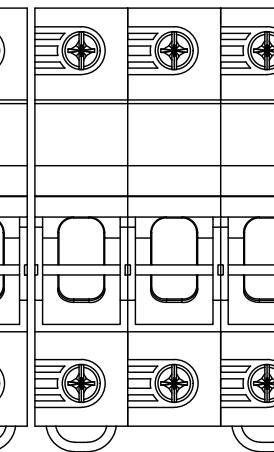
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6A(x3)



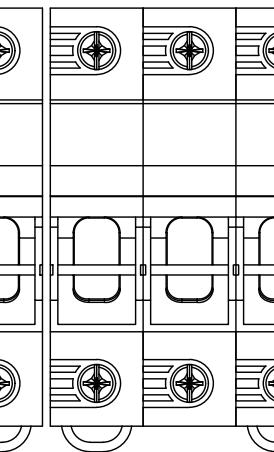
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6A(×3)



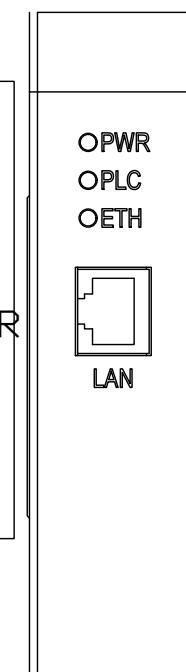
FU44
8A(×3)



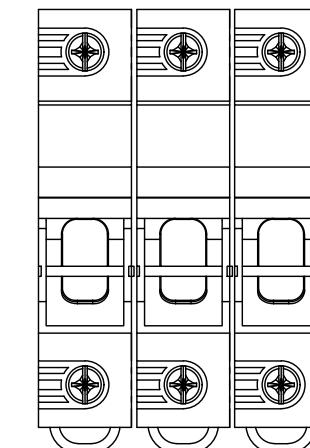
FU44
8A(×3)



LINE FILTER

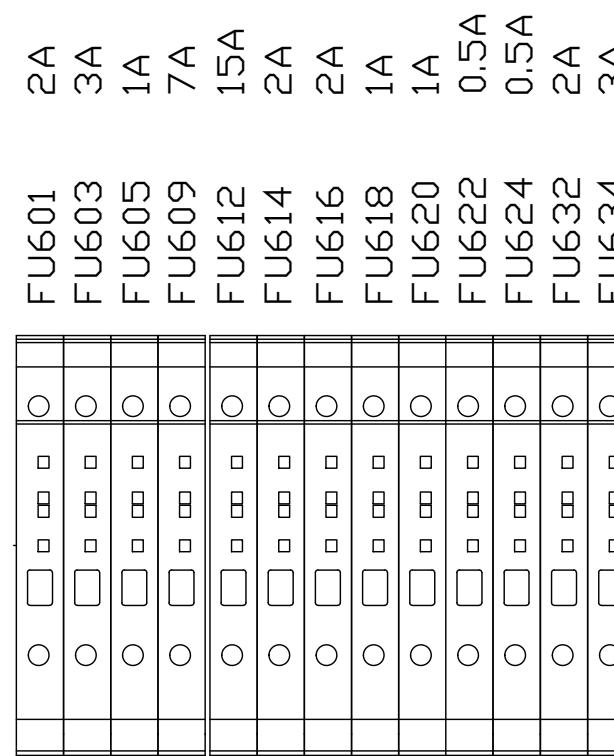


FU1650
FU1660



NEXUS
XA-NBB-C-I-AA
MODEM, NEXUS

REVISIONS			DRAWN BY	DATE	CONFIDENTIALITY NOTE:	BG BERKSHIRE GREY	SJE	TJ Horlick™	TITLE		DWG NO.	REV
DATE	DESCRIPTION	APPR.	BU	12/01/2022	The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.				BG115632 BACKPANEL LAYOUT BOTTOM		D-BG-115632	REV-G
			CHK BY	DATE					CLIENT			SCALE
			APPR BY	DATE					BERKSHIRE GREY		N/A	SIZE

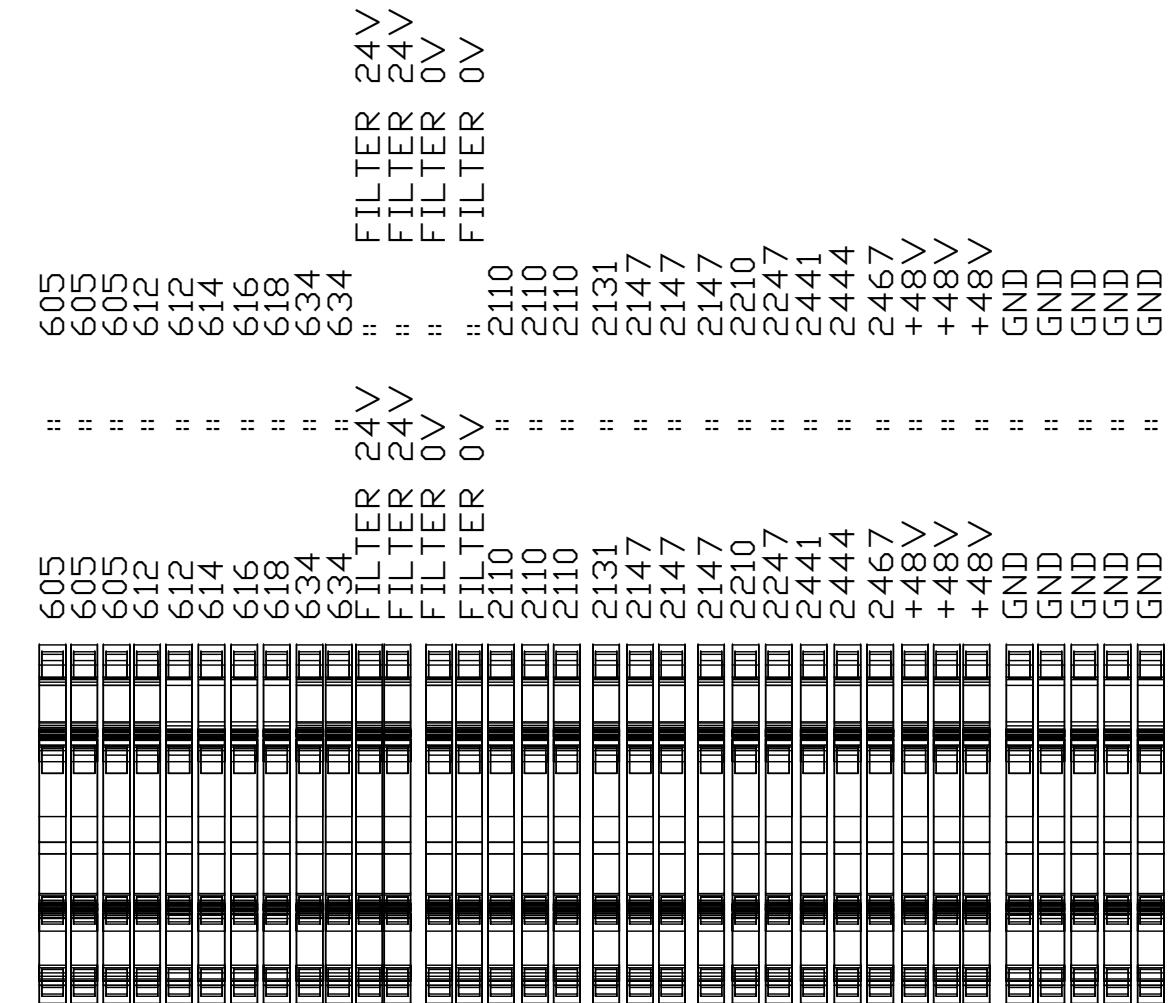
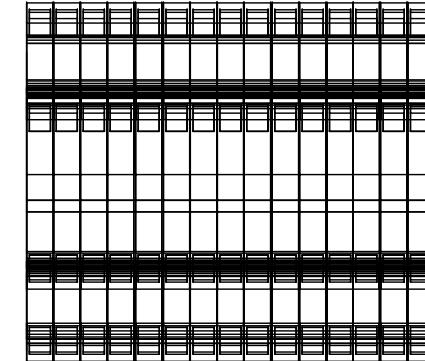


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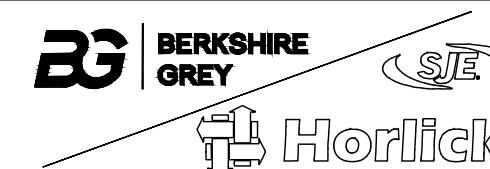


1492-JD3C (x44)

1492-JD3G (5)

REVISIONS			DRAWN BY	DATE
DATE	DESCRIPTION	APPR.	BU	12/01/2022
			CHK BY	DATE
			APPR BY	DATE

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TITLE	BG115632 TERMINAL BLOCKS	DWG NO.	D-BG-115632
CLIENT	BERKSHIRE GREY	JOB NO.	N/A

REV REV-G
SCALE N/A
SIZE B
SHEET 41 OF 42

ITEM	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	DEVICE
1	1	HOFFMAN	CSD303012	ENCLOSURE, 30"H X 30"W X 12"D, TYPE 4/12	ENCL
2	1	HOFFMAN	CP3030G	GALVANIZED STEEL ENCLOSURE PANEL 18.2 X 14.2	ENCL
3	1	HOFFMAN	CMFK	MOUNTING FOOT KIT FOR ABOVE ENCLOSURE	ENCL
4	1	HOFFMAN	APWK1711NF	WINDOW KIT	ENCL
5	1	ALLEN BRADLEY	194R-C30-1753	DISCONNECT SWITCH, 30A, 3-POLE, FUSED	DISC110
6	1	ALLEN BRADLEY	194R-S1	SHAFT	DISC110
7	1	ALLEN BRADLEY	194R-PY	THRU-DOOR HANDLE	DISC110
8	3	BUSSMANN OR EQUAL	LPCC-25	FUSE, 25A, CLASS CC, 600VAC	DISC110
9	2	MERSEN	MPDB63133	DISTRIBUTION BLOCK, 175A, 3-POLE	TB123,116
10	8	MERSEN	MPDBC6263	SAFETY COVERS FOR ABOVE DISTRIBUTION BLOCK	TB123,116
11	2	PENN UNION	NA-412	GROUND BAR	GND
12	2	ALLEN BRADLEY	100S-E26EJ22C	SAFETY CONTACTOR, 26A, 24VDC	M116,117
13	4	ALLEN BRADLEY	1492-FB3C30	FUSE HOLDER, 30A, 3-POLE, CLASS CC	FU406,414,441,448
14	3	ALLEN BRADLEY	1492-FB1C30	FUSE HOLDER, 30A, 1-POLE, CLASS CC	FU1650,1660,1403
15	6	BUSSMANN	LPCC-6	FUSE, 6A, CLASS CC, 600VAC	FU406,414
16	6	BUSSMANN	LPCC-8	FUSE, 20A, CLASS CC	FU441,448
17	2	BUSSMANN	LPCC-7	FUSE, 7A, CLASS CC	FU1650,1660
18	1	BUSSMANN	LPCC-20	FUSE, 20A, CLASS CC	FU1403
19	1	PULS	XT40.722	POWER SUPPLY, 72VDC, 20A, 380-480VAC, 3-PHASE INPUT	PWS469
20	1	PULS	QT40.481	POWER SUPPLY, 48VDC, 20A, 380-480VAC, 3-PHASE INPUT	PWS462
21	1	PULS	QT40.241	POWER SUPPLY, 24VDC, 20A, 380-480VAC, 3-PHASE INPUT	PWS266
22	3	ALLEN BRADLEY	140MT-C3E-B16	MPCB, 1-1.6A, C-FRAME, CLASS10	CB266,462,469
23	2	MERSEN	MPDB63131	DISTRIBUTION BLOCK, 175A, 1-POLE	PD600,601
24	13	ALLEN BRADLEY	1492-H5	FUSEBLOCK, 1-POLE, BLOWN FUSE INDICATOR	FU601-634
25	2	ALLEN BRADLEY	1492-N49	10-POLE JUMPER, FUSED TERMINAL BLOCK	FU601-634
26	2	ALLEN BRADLEY	1492-N37	END BARRIER FOR ABOVE	
27	2	BUSSMANN	AGC-1/2-R	FUSE, 0.5A, FAST-ACTING GLASS TUBE FUSE	FU622, FU624
28	2	BUSSMANN	AGC-3-R	FUSE, 3A, FAST-ACTING GLASS TUBE FUSE	FU603, FU634
29	3	BUSSMANN	AGC-1-R	FUSE, 1A, FAST-ACTING GLASS TUBE FUSE	FU605, FU618, FU620
30	1	BUSSMANN	AGC-7-R	FUSE, 7A, FAST-ACTING GLASS TUBE FUSE	FU609
31	4	BUSSMANN	AGC-2-R	FUSE, 2A, FAST-ACTING GLASS TUBE FUSE	FU601, FU614, FU616, FU632
32	1	BUSSMANN	AGC-10-R	FUSE, 10A, FAST-ACTING GLASS TUBE FUSE	FU612
33	1	ALLEN BRADLEY	800T-QBH2B	PUSHBUTTON, BLUE, ILLUMINATED UNIVOLTAGE, LED	PB2412
34	1	ALLEN BRADLEY	800T-QH2G	PILOT LIGHT, GREEN, UNIVOLTAGE, 12-130VAC/VDC	LT2459
35	1	SIEMENS	6ES7215-1AF40-0XB0	PLC	PLC1803
36	2	SIEMENS	6ES7226-6BA32-0XB0	SAFE INPUT CARD	SLOT 1, SLOT 2
37	1	SIEMENS	6ES7226-6DA32-0XB0	SAFE OUTPUT CARD	SLOT 3
38	1	SIEMENS	6ES7223-1BH32-0XB0	DIGITAL I/O MODULE	SLOT 4
39	1	SIEMENS	6ES7954-8LF03-0AA0	MEMORY CARD	
40	1	BANNER	TL70RYGALQ	STACKLIGHT, 24VDC, TL70RYGALQ (BLACK)	STACKLIGHT/BUZZER
41	1	FINDER/FACTORYMATION	7T.81.0.000.2303	THERMOSTAT	TAS622
42	1	HOFFMAN	HF0524414	FILTER FAN, 39CFM, 24VDC, (6.15"H x 6.15"W)	F622
43	1	HOFFMAN	HG0500404	EXHAUST GRILLE (6.15"H x 6.15"W)	F622
44	1	PLANET TECHNOLOGY	ISW-800T-M12	8-PORT GIGABIT UNMANAGED ETHERNET SWITCH	DN02
45	2	WAGO/GALCO	8000-099/000-1764	BULKHEAD RJ45 SOCKET	
46	44	ALLEN BRADLEY	1492-JD3C	2-TIER TERMINAL BLOCK, 22-12 AWG, WIRE RANGE, 20A W/COMMONING BAR	
47	5	ALLEN BRADLEY	1492-JDG3C	2-TIER TERMINAL BLOCK, 22-12 AWG, WIRE RANGE, 20A, GROUND W/COM. BAR	
48	5	ALLEN BRADLEY	1492-EBJD3	END BARRIER, JD3	
49	5	ALLEN BRADLEY	1492-CJJ5-10	CENTER JUMPER, 10-POLE, JD3	
50	4	ALLEN BRADLEY	1492-EAJ35	END ANCHORS	
51	13	HOFFMAN	AS075	3/4" HOLE SEAL	ENCL
52	4	FAIR-RITE	2631626402	FERRITE 225OHM SOLID 10.16MM	FR119, FR270
53	4	FAIR-RITE	2631540002	FERRITE CORE 300OHM SOLID 6.35MM	FR1603-1606
54	1	NEXUS	XA-NBB-C-I-AA	MODEM, NEXUS, BB 24-60V DC HI SPD UL W/D	MDM1621
55	1	ASTRODYNE TDI	092.02021.00	LINE FILTER 250VAC 20A	FLT1606

REVISIONS		DRAWN BY BU	DATE 12/01/2022	CONFIDENTIALITY NOTE: The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 BERKSHIRE GREY  	TITLE BG115632 BOM	DWG NO. D-BG-115632	REV REV-G
DATE	DESCRIPTION							APPR.
							CLIENT BERKSHIRE GREY	JOB NO. N/A
							SHEET 42 OF 42	