

- NOTES:
1. ALL WIRES TO BE xxxV, xx\*, xxx.
  2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.
  3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)
  4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.
  5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.
  6. ALL GROUND WIRES ARE #xx AWG xxxxxx, UNLESS OTHERWISE NOTED.

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XXXXX_XXXX XXXXX	CONNECTED COMPONENTS BI-DIR MUTING W/3RD ENABLE POWER DISTRIBUTION	DWG: XX DATE: 11-02-09
	DWT: 1 OF: XX	DWT: 1 OF: XX

8 7 6 5 4 3 2 1

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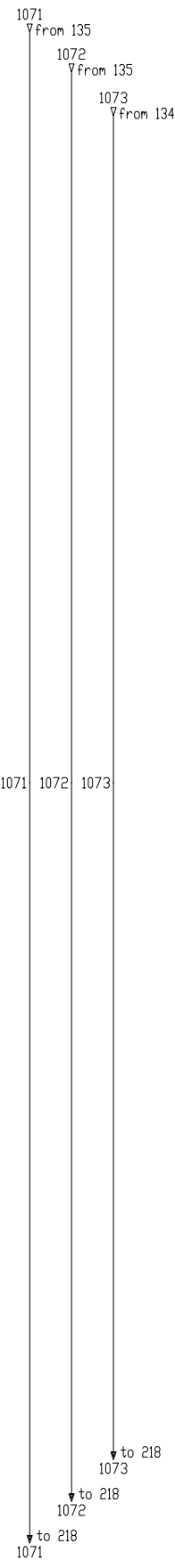
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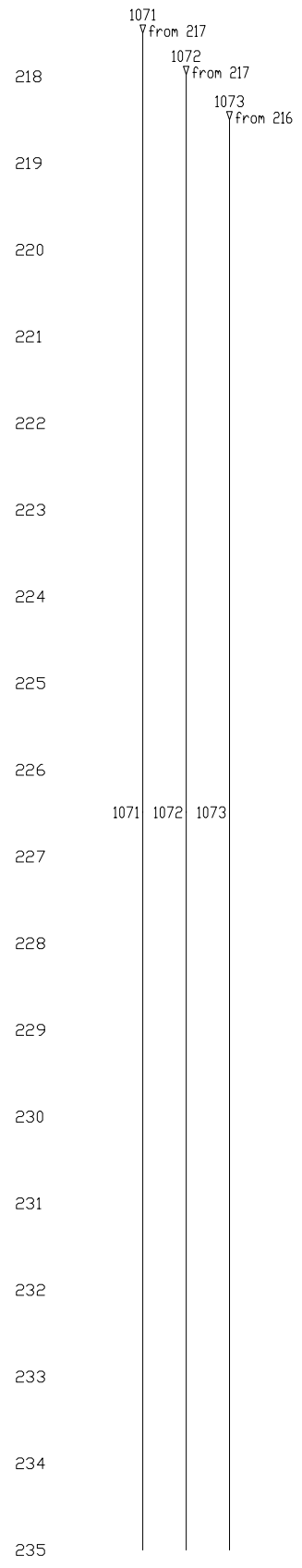
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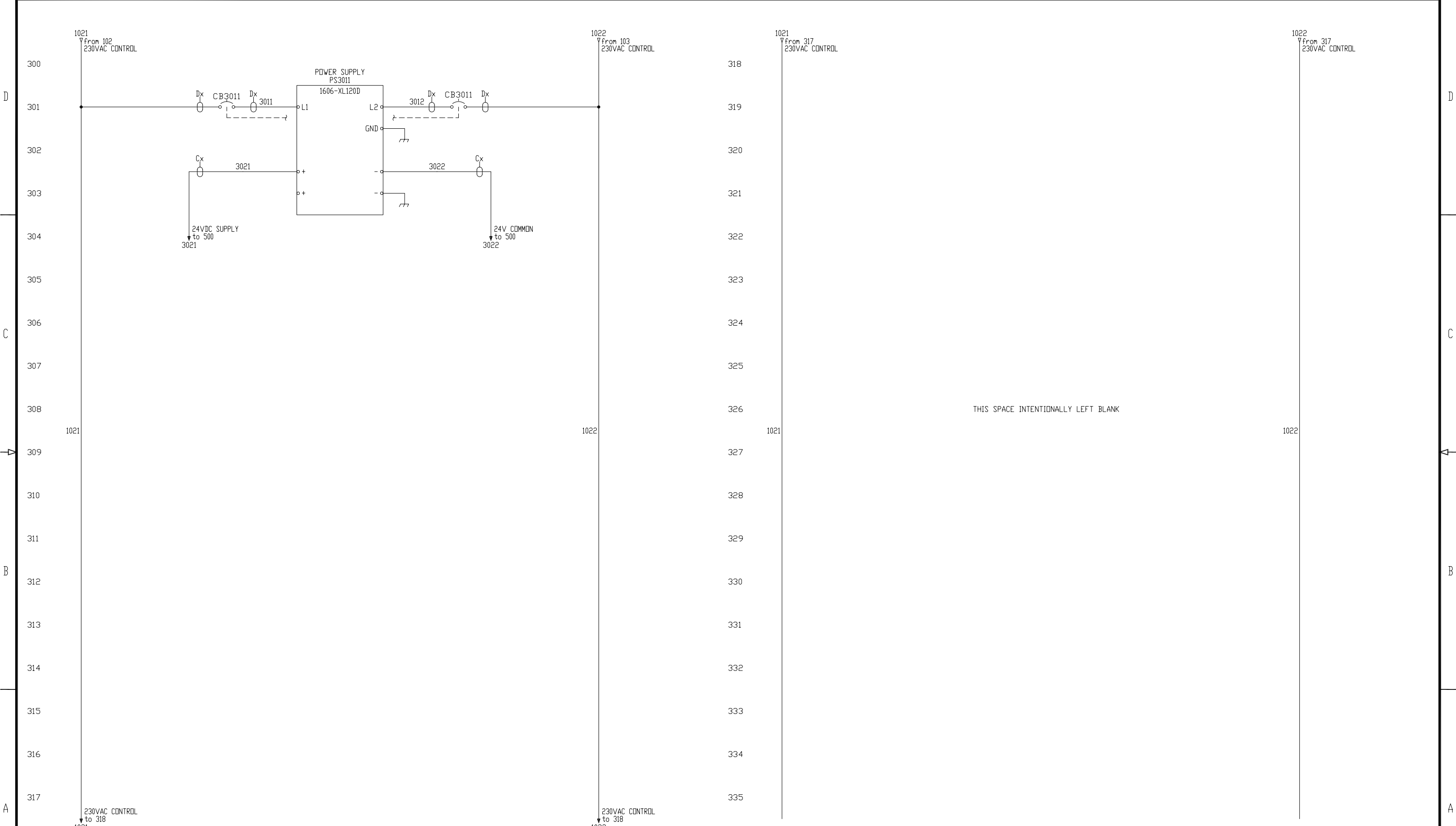


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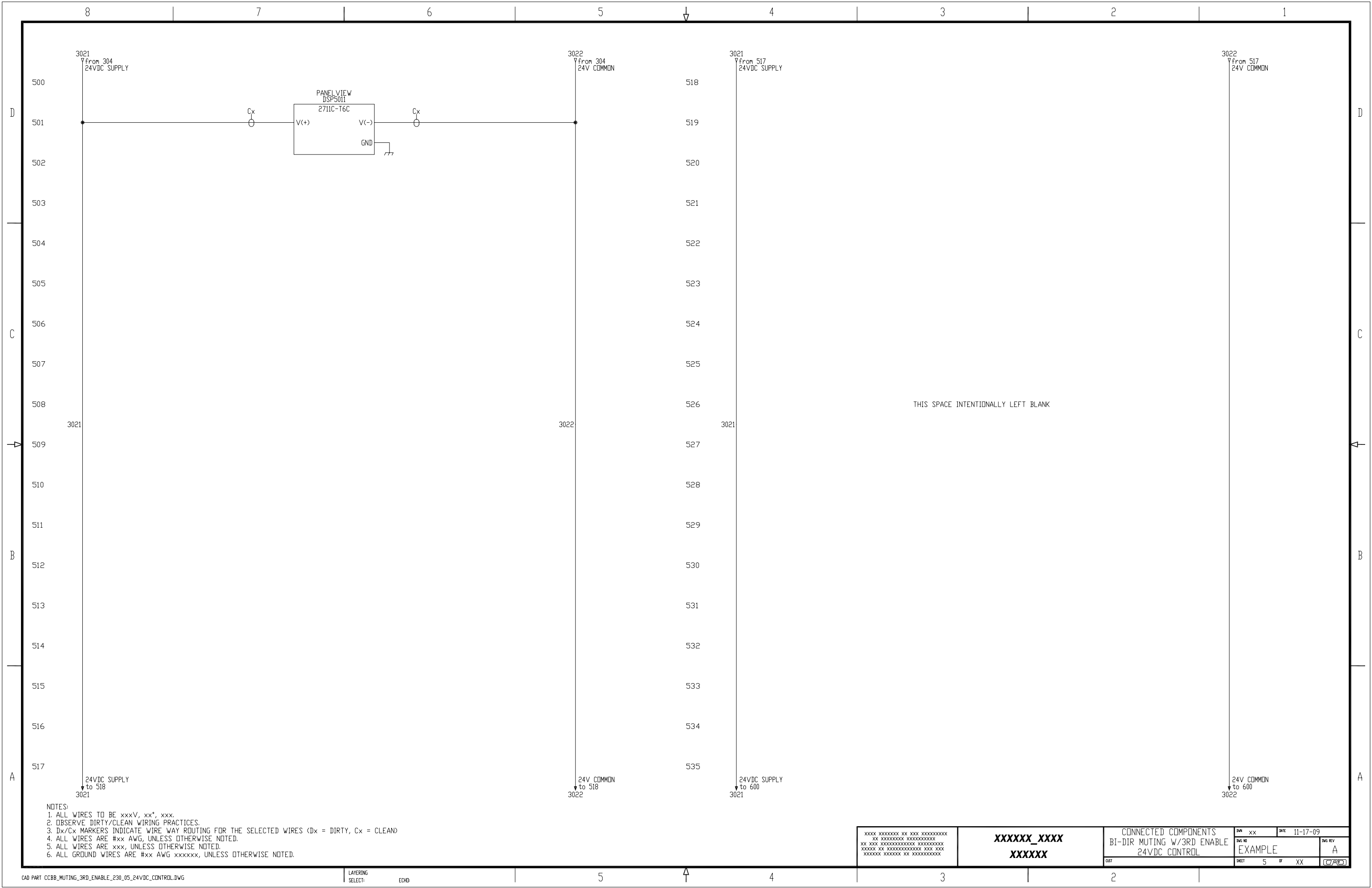
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		SHEET 2 OF XX	(C)	



- NOTES:
1. ALL WIRES TO BE xxxV, xx\*, xxx.
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XXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BI-DIR MUTING W/3RD ENABLE 230VAC CONTROL	DWG XX DATE 11-17-09 Dwg ID EXAMPLE Dwg REV A
	SHEET 3 OF XX	(C/R)



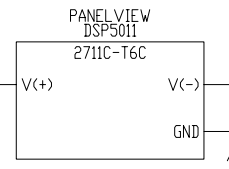


3021 from 304 24VDC SUPPLY

3022 from 304 24V COMMON

3021 from 517 24VDC SUPPLY

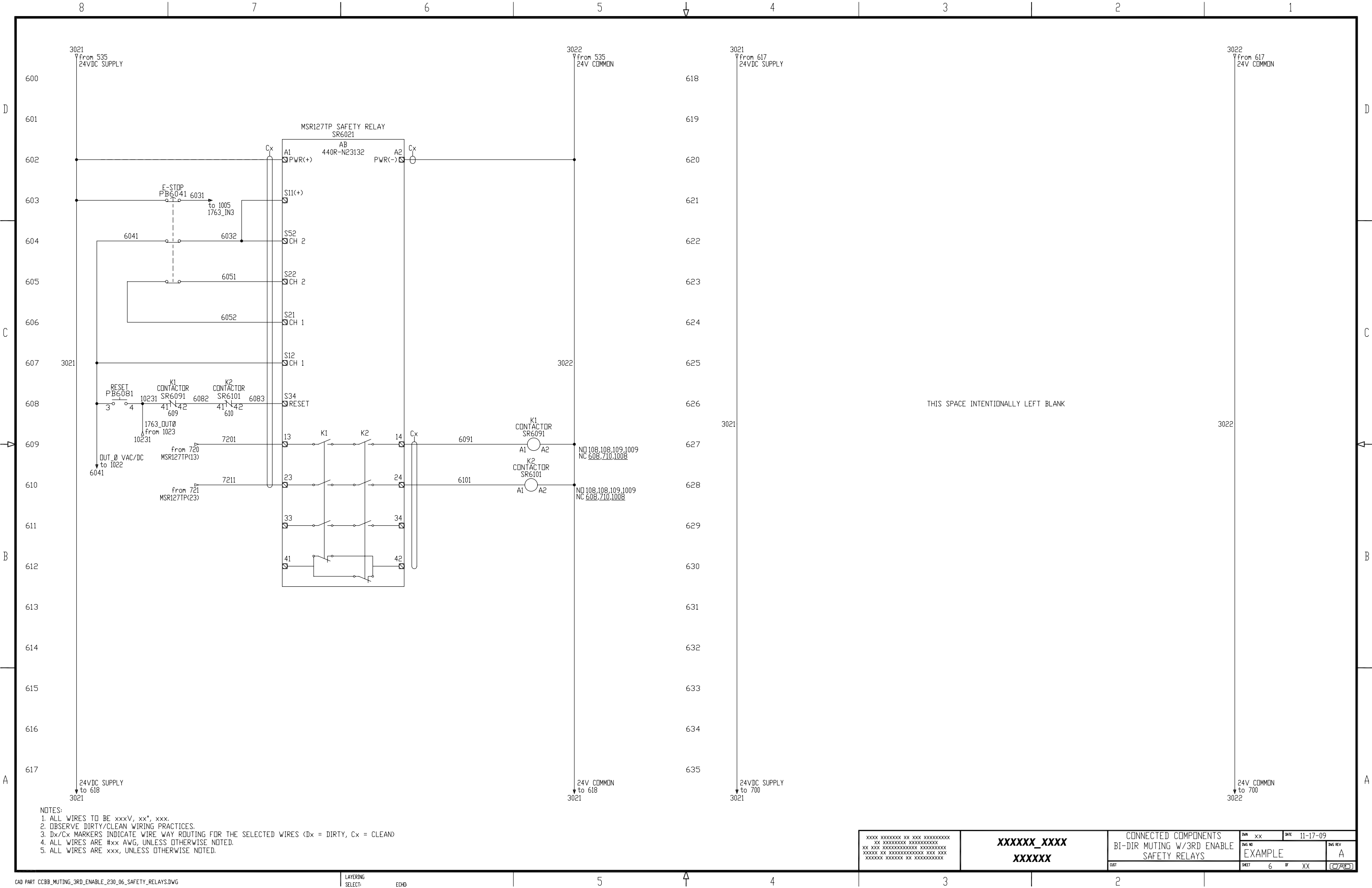
3022 from 517 24V COMMON



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- NOTES:
1. ALL WIRES TO BE xxxV, xx\*, xxx.
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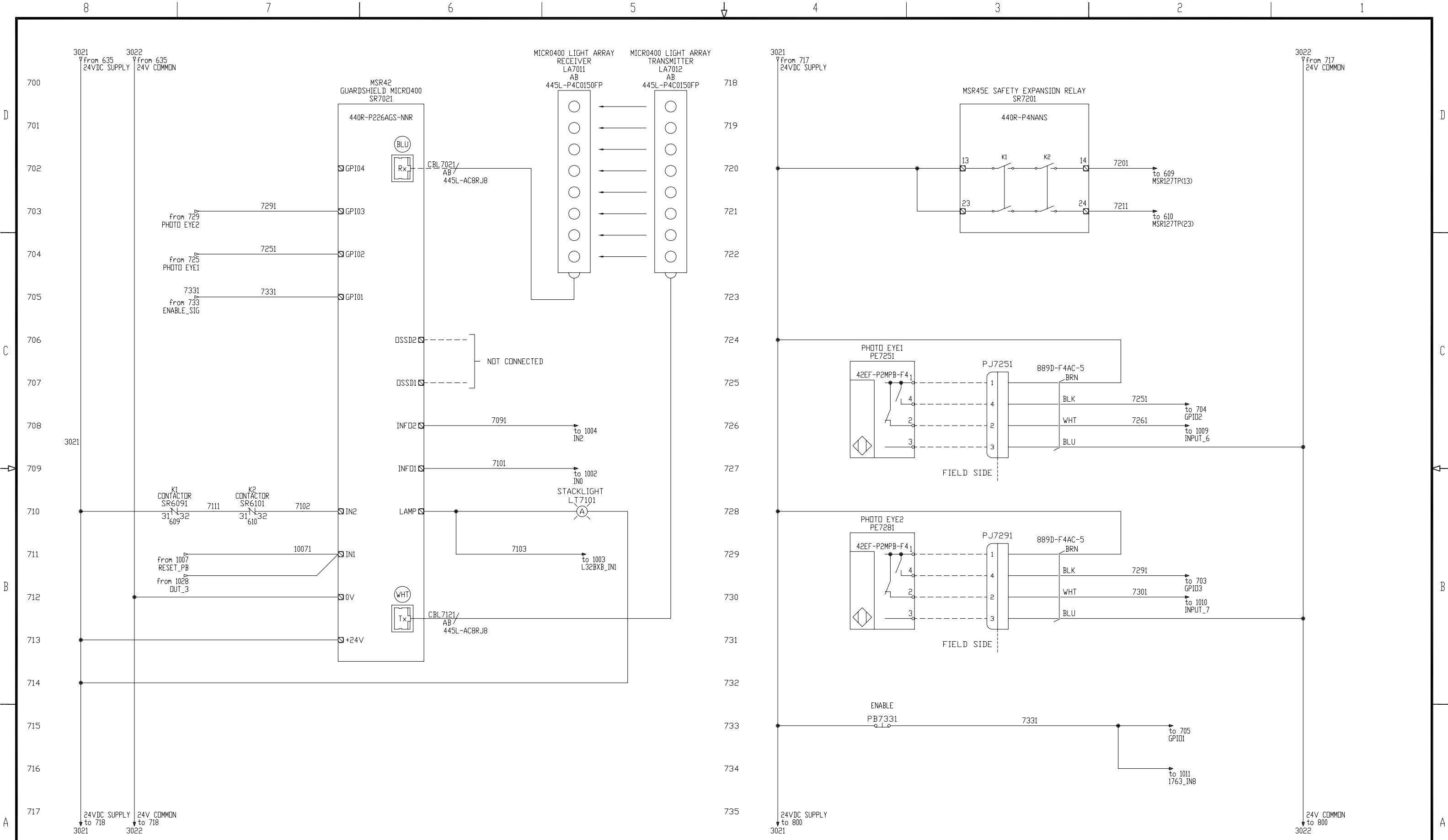
XXXXX_XXXX XXXXXX	CONNECTED COMPONENTS		DWG	XX	DATE	11-17-09
	BI-DIR MUTING W/3RD ENABLE		DWG NO	EXAMPLE		DWG REV
		24VDC CONTROL		SHEET	5	OF XX



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- NOTES:
1. ALL WIRES TO BE xxxV, xx\*, xxx.
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			SHEET 6	OF XX	



- NOTES:
1. ALL WIRES TO BE xxxV, xx\*, xxx.
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XXXX XXXXXXXX XX XXX XXXXXXXXXXXX XX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XX XXXXXXXXXXXXXXXXXXXX XXXXXXXX XXXXXX XX XXXXXXXXXXXX	<b>XXXXXX_XXXX</b> <b>XXXXXX</b>	CONNECTED COMPONENTS BI-DIR MUTING W/3RD ENABLE SAFETY RELAYS	DWG NO <b>EXAMPLE</b>	DATE 11-17-09	DWG REV <b>A</b>
			SHEET 7	OF XX	

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3021  
from 735  
24VDC SUPPLY

3022  
from 735  
24V COMMON

3021  
from 817  
24VDC SUPPLY

3022  
from 817  
24V COMMON

800  
801  
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24VDC SUPPLY  
to 818  
3021

24V COMMON  
to 818  
3022

24VDC SUPPLY  
900  
3021

24V COMMON  
900  
3022

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CONNECTED COMPONENTS  
BI-DIR MUTING W/3RD ENABLE  
DRIVES I/O

DWG NO  
EXAMPLE

DATE 11-17-09  
DWG REV  
A

SHEET 8 OF XX

CPA

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3021  
from 835  
24VDC SUPPLY

3022  
from 835  
24V COMMON

3021  
from 917  
24VDC SUPPLY

3022  
from 917  
24V COMMON

900

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24VDC SUPPLY  
to 918  
3021

24V COMMON  
to 918  
3022

24VDC SUPPLY  
to 1000  
3021

24V COMMON  
to 1000  
3022

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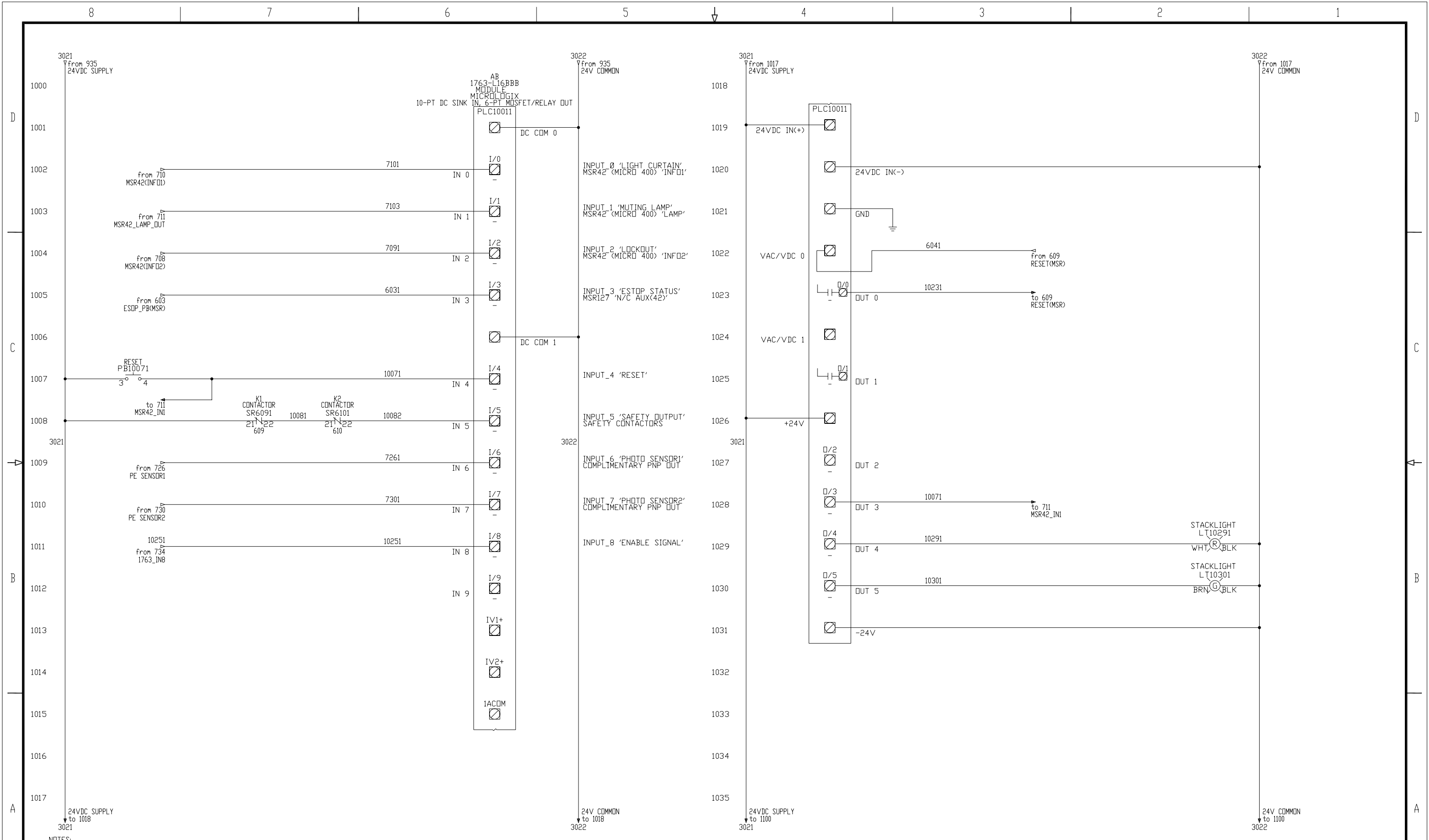
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CONNECTED COMPONENTS  
BI-DIR MUTING W/3RD ENABLE  
SPARE

DWG NO  
EXAMPLE

DWG REV  
A

DATE 11-17-09  
SHEET 9 OF XX



- NOTES:
1. ALL WIRES TO BE xxxV, xx\*, xxx.
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			SHEET 10 OF XX	

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3021  
from 1035  
24VDC SUPPLY

3022  
from 1035  
24V COMMON

3021  
from 1117  
24VDC SUPPLY

3022  
from 1117  
24V COMMON

1100  
1101  
1102  
1103  
1104  
1105  
1106  
1107  
1108  
1109  
1110  
1111  
1112  
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1120  
1121  
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24VDC SUPPLY  
to 1118  
3021

24V COMMON  
to 1118  
3022

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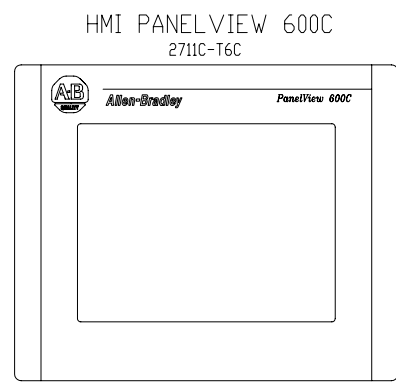
CONNECTED COMPONENTS  
BI-DIR MUTING W/3RD ENABLE  
SPARE

DWG NO  
EXAMPLE

DWG REV  
A

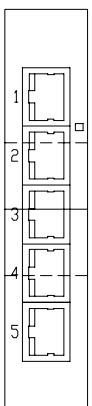
DATE 11-17-09  
SHEET 11 OF XX

CPA

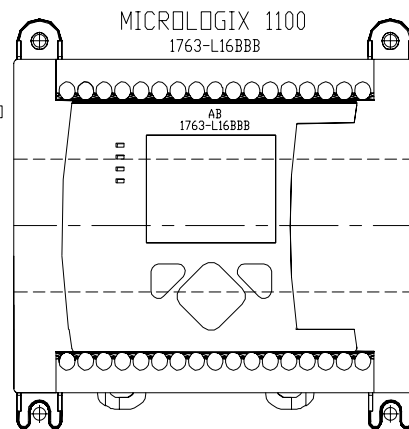


2711P-CBL-EX04

ETHERNET SWITCH  
1783-US05T



1585J-M8PBJM-2

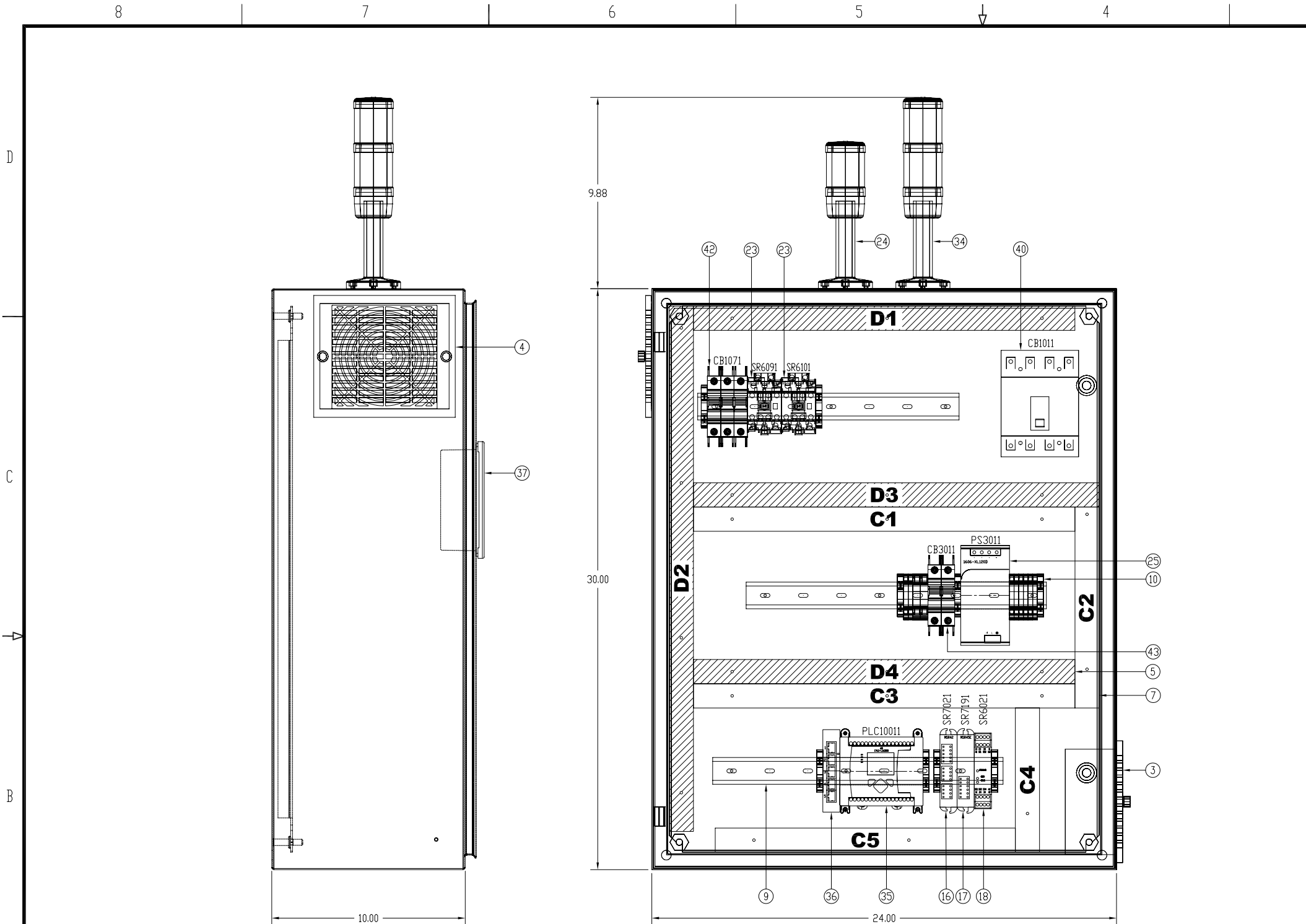


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CONNECTED COMPONENTS  
BI-DIR MUTING W/3RD ENABLE  
COMMUNICATION INTERCONNECT

DWG XX	DATE 11-17-09	DWG REV A
EXAMPLE		
SHEET 12	OF XX	(PAC)



ITEM	QTY	DESCRIPTION	MFG	CATALOG
1	1	NEMA1 ENCLOSURE 30"X24"X10"	HOFFMAN	CSD302410
2	1	PANEL FOR ENCLOSURE 21"X22.5"	HOFFMAN	CP3024
3	1	FAN KIT 115VAC WITH FILTER	HOFFMAN	TFP41
4	1	EXHAUST GRILL WITH FILTER	HOFFMAN	TEP4
5	-	PANDUIT WIRE DUCT, 1"X4" GRAY	PANDUIT	FIX4LG6
6	-	PANDUIT WIRE DUCT COVER, 1" GRAY	PANDUIT	C1LG6
7	-	PANDUIT WIRE DUCT, 1"X4" WHITE	PANDUIT	FIX4WH6
8	-	PANDUIT WIRE DUCT COVER, 1" WHITE	PANDUIT	C1WH6
9	-	35MM DIN RAIL	AB	199-DR1
10	9	END ANCHOR USED W/STANDARD 35MM DIN	AB	1492-EAJ35
SAFETY SYSTEM COMPONENTS				
11	1	MICRO 400 SAFETY LIGHT CURTAIN, RES 30mm	AB	445L-P4E1200FP
12	1	M12 TO RJ45, 8 METER	AB	445L-AC8RJ8
13	1	OPTICAL INTERFACE TOOL	AB	445L-AF6150
14	1	OPTICAL INTERFACE FASTENER	AB	445L-AF6152
15	1	MICRO 400 ADJUSTABLE MOUNTING KIT	AB	445L-AF6143
16	1	MSR42 MULTI FUNCTION CONTROLLER	AB	440R-P226AGS-NNR
17	1	MSR45E RELAY EXTENSION	AB	440R-P4NANS
18	1	MINDTAUR MSR127TP 24VAC/DC 3NO. & 1 N.C.	AB	440R-N23132
19	1	800F STANDARD PUSHBUTTON, 1NC CONTACT	AB	800F-X01
20	1	800F NON-ILLUM MUSHROOM OPERATOR	AB	800FP-MT44
21	3	22.5mm PB NO LATCH CONTACT BLOCK 1NO.	AB	800F-X01
22	1	PLASTIC LATCH	AB	800F-ALP
23	2	MCS100S-C SAFETY CONTACTOR 30A 24V	AB	100S-C30EJ14BC
24	1	STACKLIGHT 24V AMBER STEADY	AB	855EP-B24D5
25	1	POWER SUPPLY 24VDC 120W 120/240V INPUT	AB	1606-XL120D
MUTING SENSOR COMPONENTS				
26	2	PHOTDSWITCH 4-PIN DC MICRO SOURCE PNP	AB	42EF-P2MPB-F4
27	2	CORSET DC MICRO(M12) FEMALE STRAIGHT	AB	889D-F4AC-5
28	2	BRACKET RIGHT ANGLE MINI/RIGHT SIGHT	AB	60-2657
29	2	REFLECTOR 50.8mm(2IN.) HEX	AB	92-90
30	1	800F PUSHBUTTON FLUSH GREEN	AB	800FP-F3
31	1	800F LEGEND PLATE "START"	AB	800F-11BE208
32	1	PLASTIC LATCH	AB	800F-ALP
33	3	22.5mm PB NO LATCH CONTACT BLOCK 1NO.	AB	800F-X10
34	1	STACKLIGHT 24V GRN STEADY RED FLASHING	AB	855EP-B24Y3L4
CONTROL AND VISUALIZATION EQUIPMENT				
35	1	MICROLOGIX 1100, 24VDC POWER	AB	1763-L16BBB
36	1	STRATIX 2000 SW., UNMANAGED 5 COPPER PORTS	AB	1783-US05T
37	1	6" COLOR (TRANSMISSIVE CSTN) TOUCHSCREEN	AB	2711C-T6C
38	1	1585 ETHERNET CABLE, TEAL RISER PVC, 2 METER	AB	1585J-M8PBJM-2
39	1	ETHERNET CAT5 CROSSOVER CABLE 4.3m(14FT)	AB	2711P-CBL-EX04
POWER CIRCUIT COMPONENTS				
380VAC-480VAC, 4POLE CB. DISCONNECT OPTION				
40	1	IEC MOLDED CASE C.B., 160A, H-FRAME, RATED 32A	AB	140UE-H2E4-C32
41	1	ROTARY, VARIABLE-DEPTH OPERATING MECHANISM	AB	140U-H-RVM12R
42	1	UL489/CSA 22.2 NO 5.1 BREAKER, 3POLE, 7AMP	AB	1489-A3C070
43	1	UL489/CSA 22.2 NO 5.1 BREAKER, 2POLE, 10 AMP	AB	1489-A2D100
PROGRAMMING SOFTWARE				
44	1	RSLOGIX MICRO STARTER (ENGLISH) CD-ROM	AB	9324-RLM0100ENE
POWER OPTION 380/400VAC, 3POLE FUSED DISCONNECT				
45	1	194R DISCONNECT, OPEN STYLE, DIN, 32A, 3POLE	AB	194R-D32-1753
46	1	OPERATING HANDLE, WITH DEFEATER, RED/YELLOW	AB	194R-HS4E
47	1	OPERATING SHAFT, STD. LENGTH, 263mm(10.3 IN.)	AB	194R-R1
48	1	UL489/CSA 22.2 NO 5.1 BREAKER, 3POLE, 7AMP	AB	1489-A3C070
49	1	UL489/CSA 22.2 NO 5.1 BREAKER, 2POLE, 10AMP	AB	1489-A2D100
POWER CIRCUIT OPTION 480VAC, 3 POLE FUSED DISCONNECT				
50	1	194R DISCONNECT, OPEN STYLE, 30A, 3POLE	AB	194R-C30-1753
51	1	OPERATING HANDLE, WITH DEFEATER, RED/YELLOW	AB	194R-HS4E
52	1	OPERATING SHAFT, STD LENGTH, 263MM(10.3 IN.)	AB	194R-R1
53	1	UL489/CSA 22.2 NO 5.1 BREAKER, 3POLE, 7AMP	AB	1489-A3C070
54	1	UL489/CSA 22.2 NO 5.1 BREAKER, 2POLE, 10AMP	AB	1489-A2D100

NOTES:  
 1. WIREWAYS MARKED Cx/Dx INDICATE CLEAN/DIRTY SIGNAL/POWER  
 2. FOR FURTHER INFORMATION ON SYSTEM DESIGN FOR CONTROL OF ELECTRICAL NOISE SEE ROCKWELL PUBLICATION #GMC RM001-EN-P

XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XX XXXXXXXXXXXXXXXX XXX XXX XXXXXXXX XXXXXXX XXX XXXXXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BI-DIR MUTING W/3RD ENABLE PANEL LAYOUT	DWG NO XX DATE 11-17-09 REV A EXAMPLE	DWG REV A
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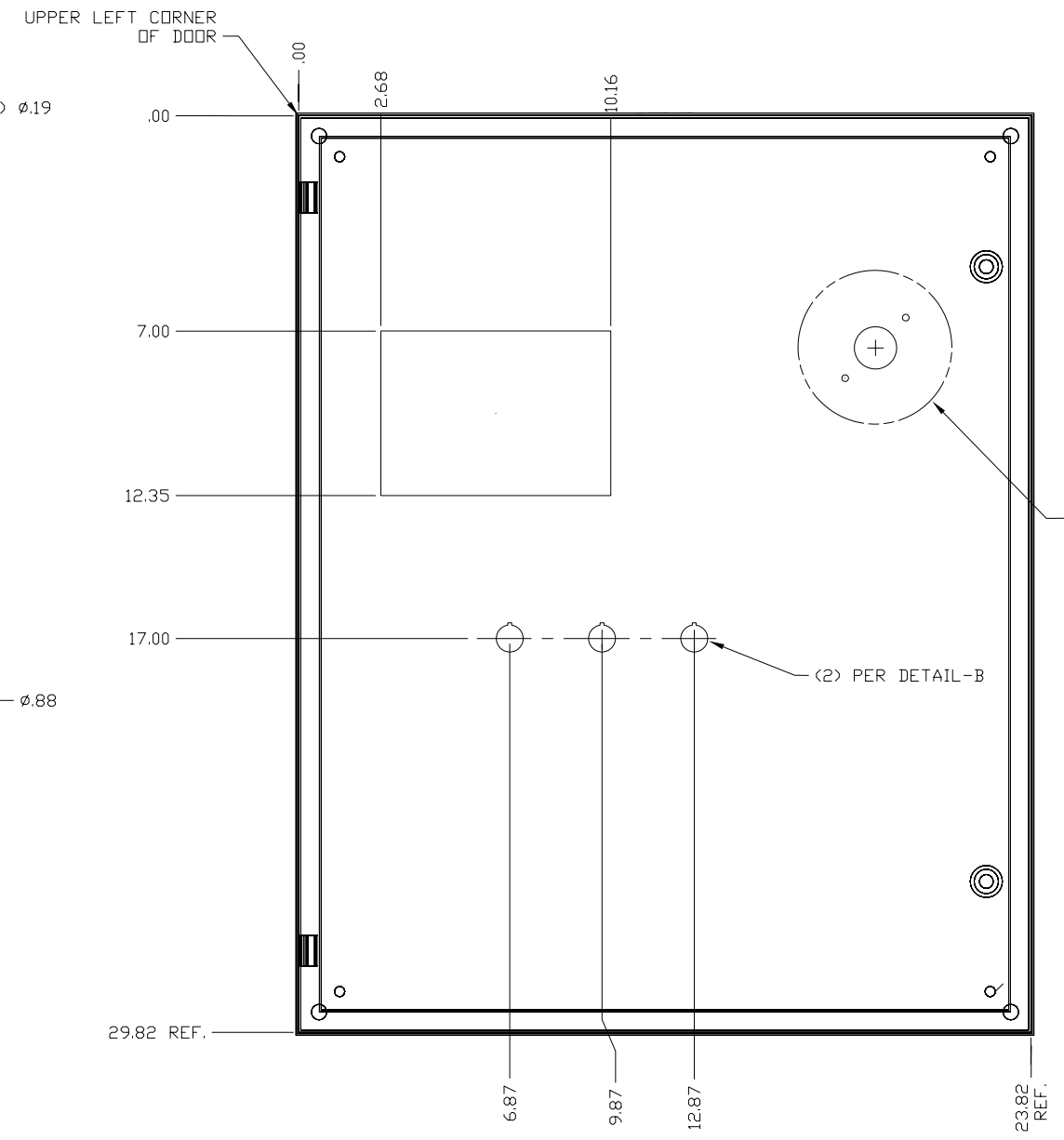
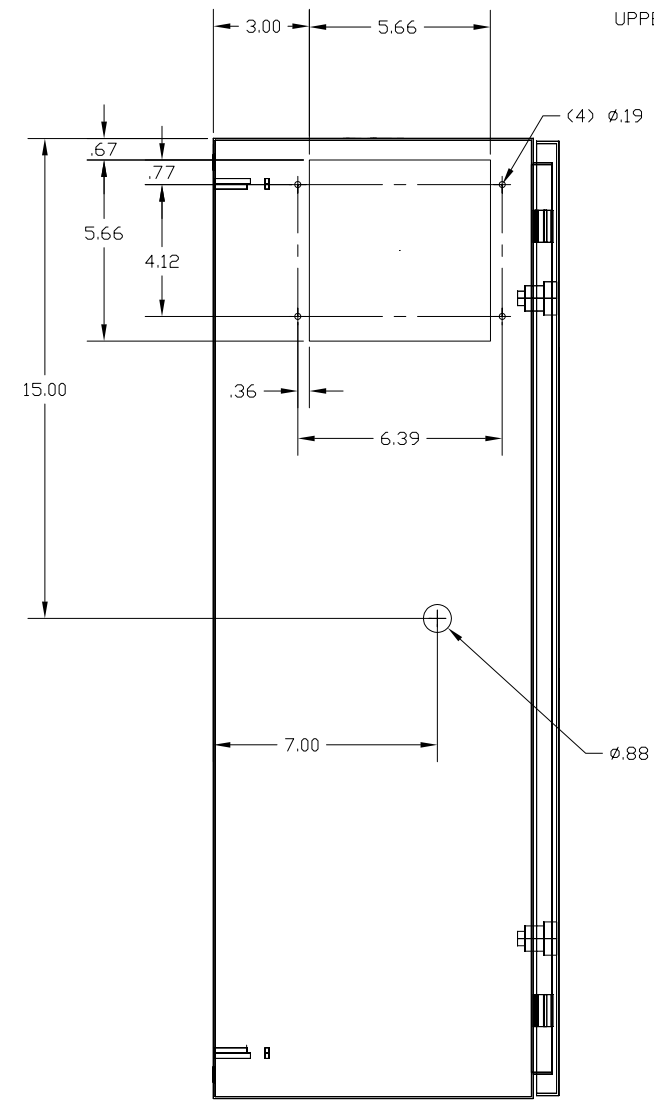
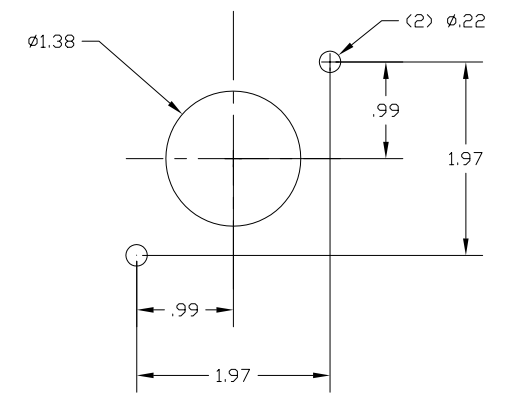
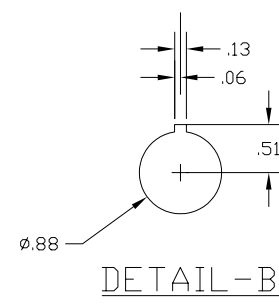
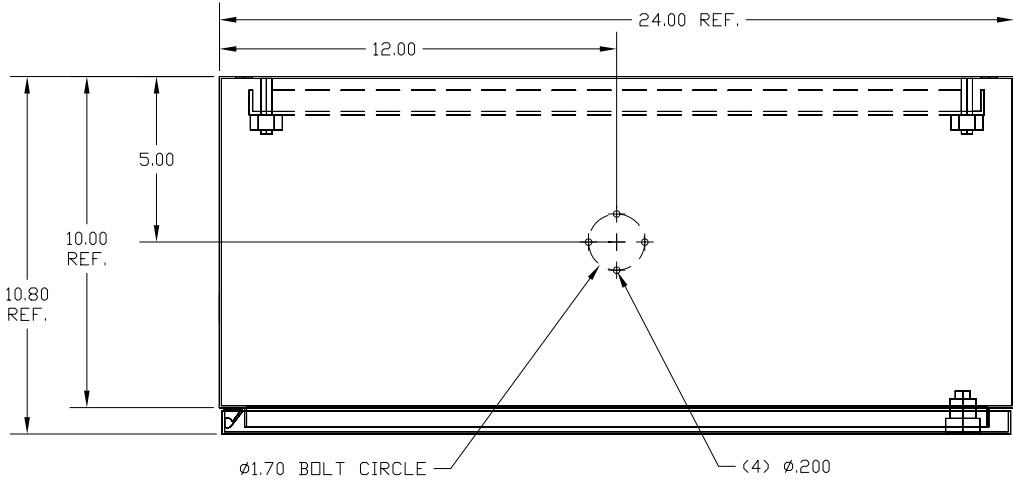
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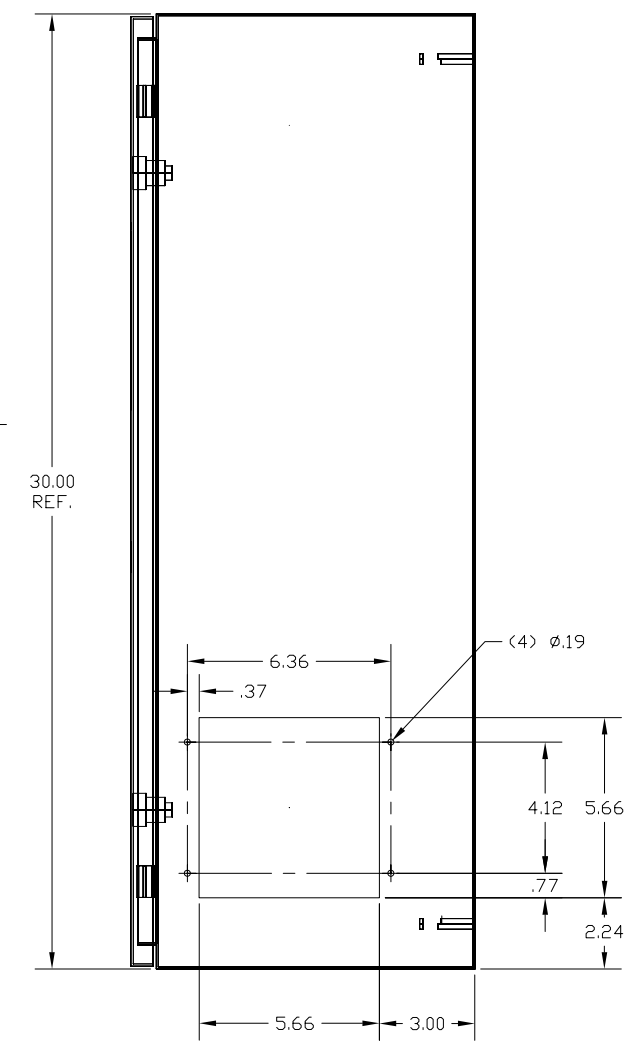
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PER DETAIL-A,  
(SEE SHEET 2 FOR ALL  
OPERATOR OPTION  
LOCATIONS)



DOOR MODIFICATION

-01	1	HOFFMAN PART CSD302410	ANSI 61 GRAY
PART NO.	CHG. CHAR.	MATERIAL	SURFACE TREATMENT

CAD PART CCBB\_MUTING\_3RD\_ENABLE\_230\_14\_ENCLOSURE\_DOOR\_LAYOUT.DWG

LAYERING SELECT: ECHD

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CONNECTED COMPONENTS  
BI-DIR MUTING W/3RD ENABLE  
ENCLOSURE DOOR LAYOUT

DWG NO	DATE	DWG REV
EXAMPLE	11-17-09	A
SHEET	OF	XX

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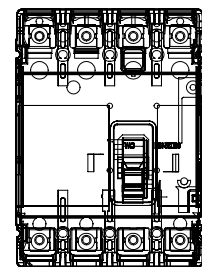
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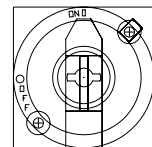
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ADDITIONAL PARTS LIST

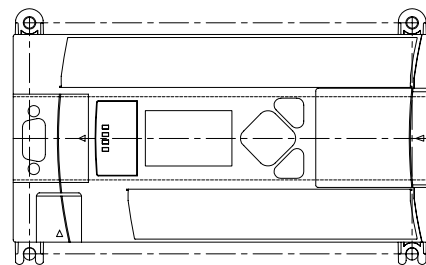
ITEM	DESCRIPTION	MFG	CATALOG
55	ROTARY VARIABLE DEPTH MECHANISM	AB	140U-RVM12R
56	"F" FRAME CIRCUIT BREAKER	AB	140UE-H2EA-C32
57	30A FUSED DISCONNECT	AB	194R-C30-1753
58	60A FUSED DISCONNECT	AB	194R-D32/D63-1753
59	MICROLOGIX 1400, 24VDC POWER	AB	1766-L32BXBA
60	STRATIX 6000, 8 PORT ETHERNET SWITCH	AB	9300-8EDM
61	REMOTE ACCESS ETHERNET SWITCH	AB	9300-RADES
62	STRATIX 6000 SWITCH, ENTRY-LEVEL MANAGED, 8-PORT	AB	1783-EMS08T
63	STRATIX 2000 SWITCH, UNMANAGED, 5-COPPER PORTS	AB	1783-US05T



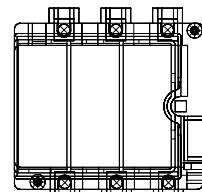
56 "F" FRAME CIRCUIT BREAKER



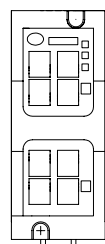
55 ROTARY VARIABLE DEPTH MECHANISM



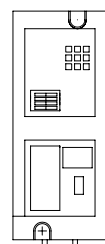
59 MICROLOGIX 1400



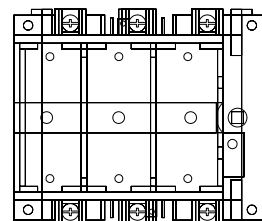
57 30A FUSED DISCONNECT



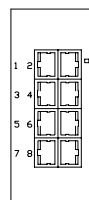
60 ETHERNET SWITCH



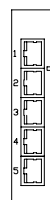
61 REMOTE ACCESS ETHERNET SWITCH



58 60A FUSED DISCONNECT



62 ETHERNET SWITCH



63 ETHERNET SWITCH

XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX	<b>XXXXXX_XXXX</b> <b>XXXXXX</b>	CONNECTED COMPONENTS		DWG XX	DATE 11-17-09
		BI-DIR MUTING W/3RD ENABLE		DWG REV	DWG REV
ADDITIONAL PARTS		EXAMPLE	A	SHEET 14 OF XX	

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