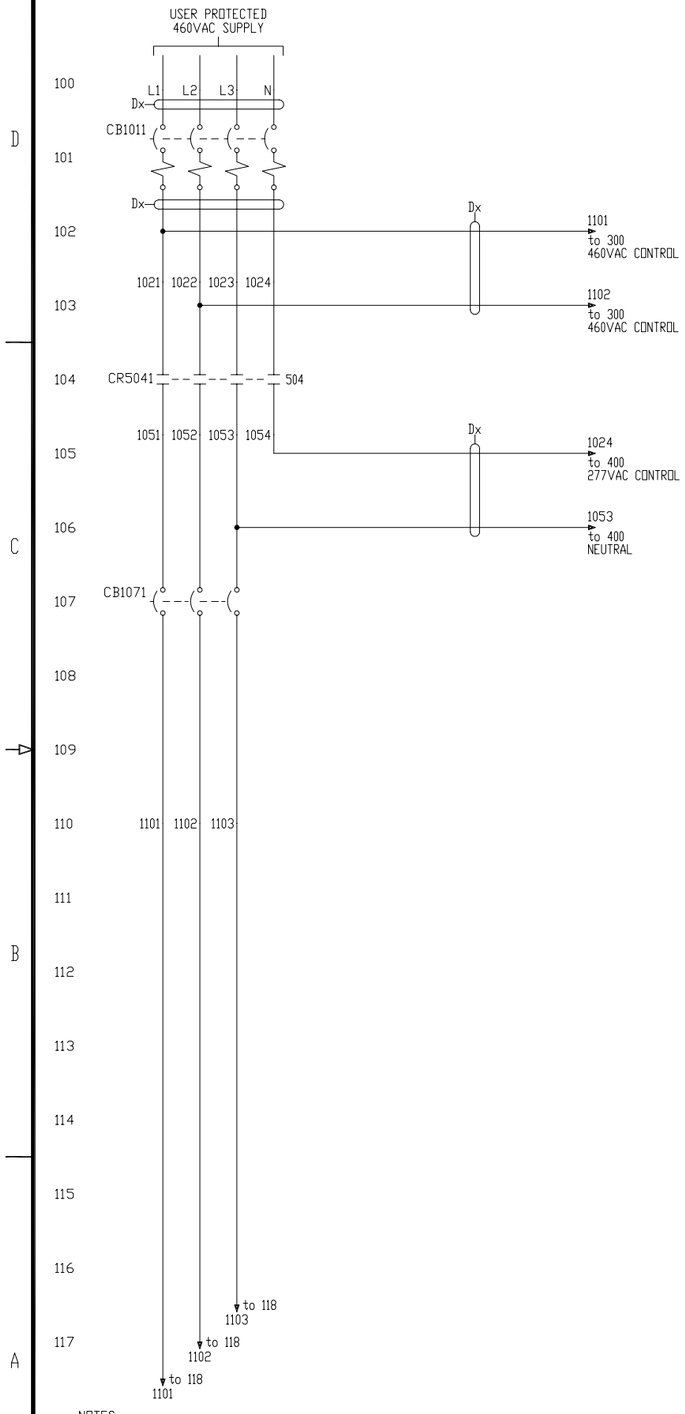

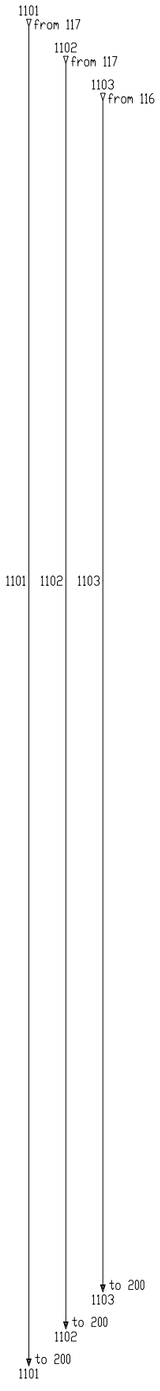

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NOTES:
1. ALL WIRES TO BE xxxV, xx*, xxx.
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.
5. ALL WIRES ARE xxx, UNLESS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

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxxx xx xxx xxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS DRIVE POWER DISTRIBUTION	DWN xx DWG NO EXAMPLE SHEET 1 OF XX	DATE 10-17-08 DWG REV XX

CAD PART CCBB_460_1_POWER_DISTRIBUTION.DWG

LAYERING SELECT: ECHO

1101 from 135
1102 from 135
1103 from 134

200
201
202
203
204
205
206
207
208

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1101 1102 1103

209
210
211
212
213
214
215
216
217

to 218 1103
to 218 1102
to 218 1101

1101 from 217
1102 from 217
1103 from 216

218
219
220
221
222
223
224
225
226

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1101 1102 1103

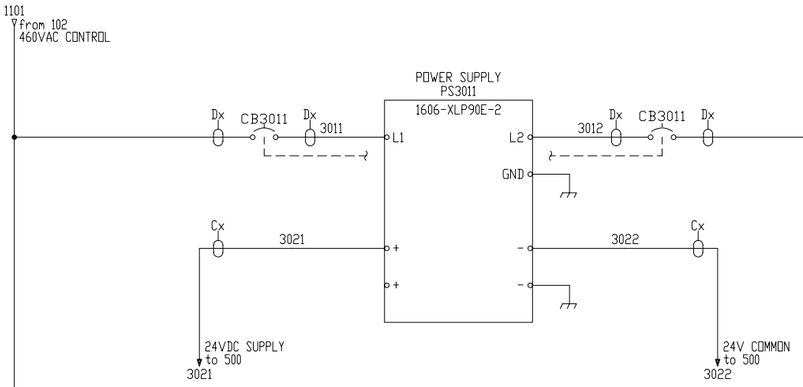
227
228
229
230
231
232
233
234
235

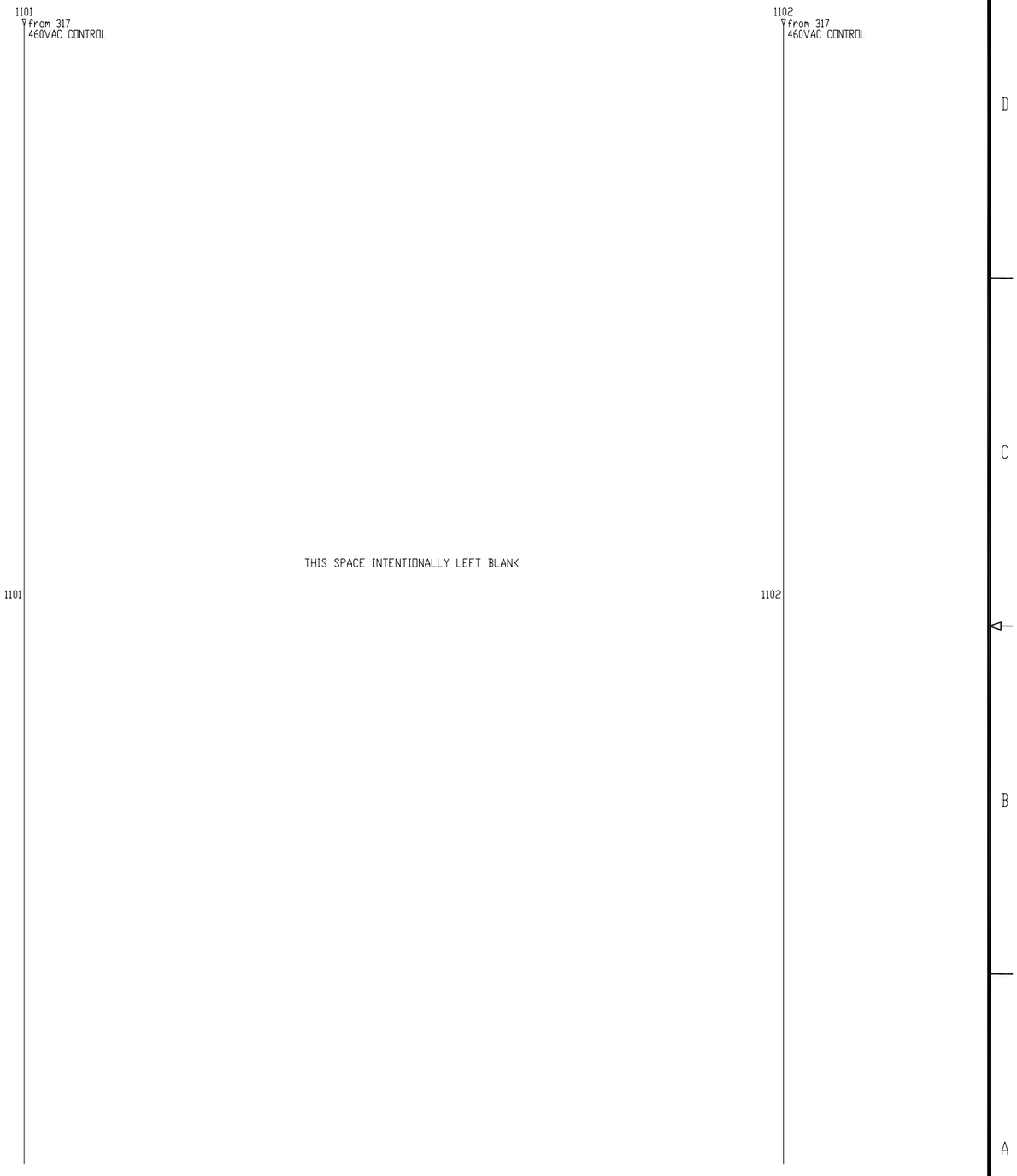
D C B A

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxx xx xxx xxxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL POWER DISTRIBUTION	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX SHEET 2 OF XX CUST

CAD PART CCBB_TC_460_2_POWER_DISTRIBUTION.DWG

LAYERING SELECT: ECHO



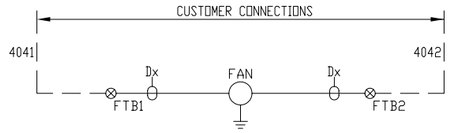


NOTES:
1. ALL WIRES TO BE xxxV, xx*, xxx.
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.
5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.
6. ALL GROUND WIRES ARE #xx AWG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

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxx xx xxx xxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL 460VAC CONTROL	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 3 OF XX

CAD PART CCBB_TC_460_3_460VAC_CONTROL.DWG

LAYERING SELECT: ECHO



277VAC CONTROL
to 418
1024

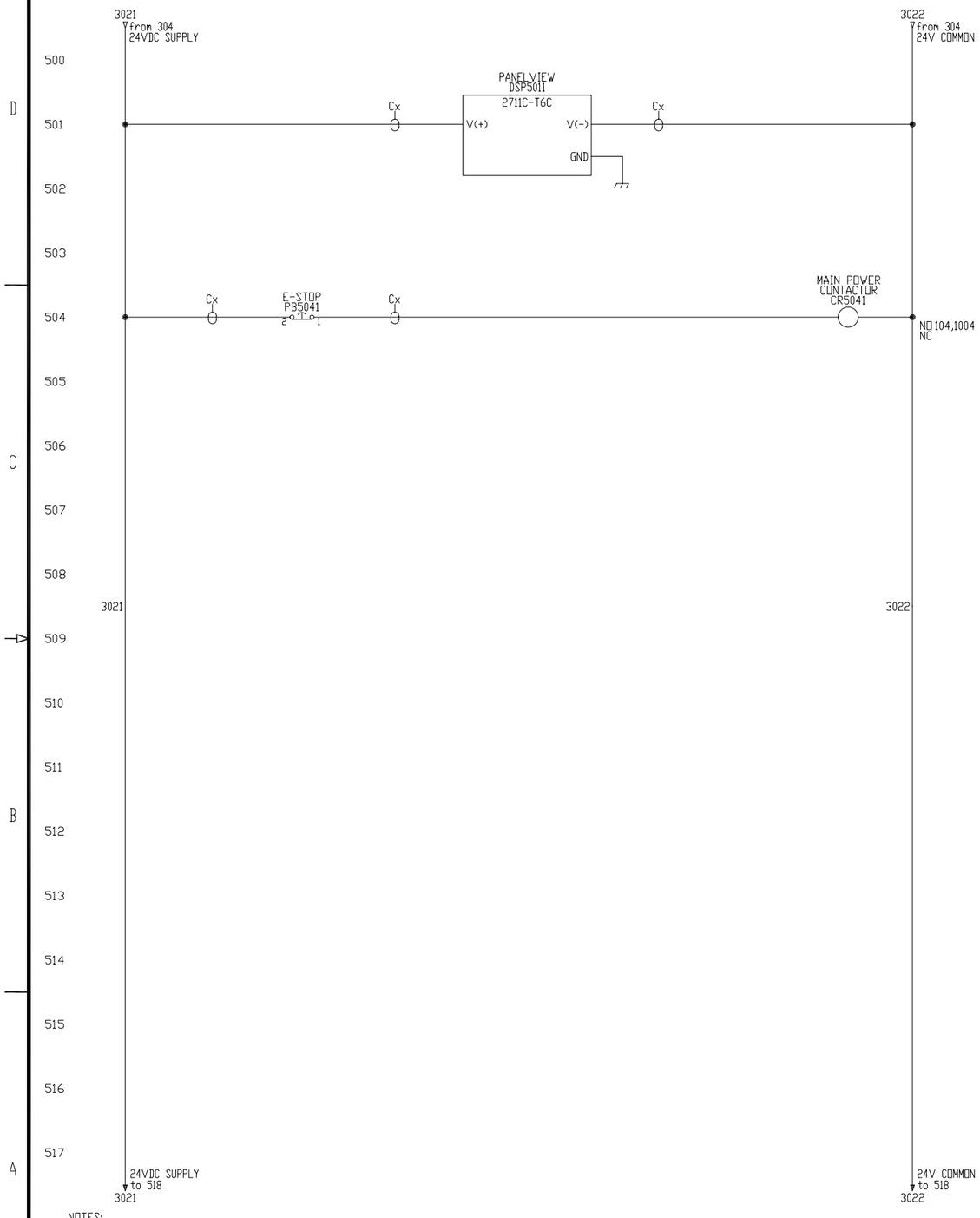
NEUTRAL
to 418
1053

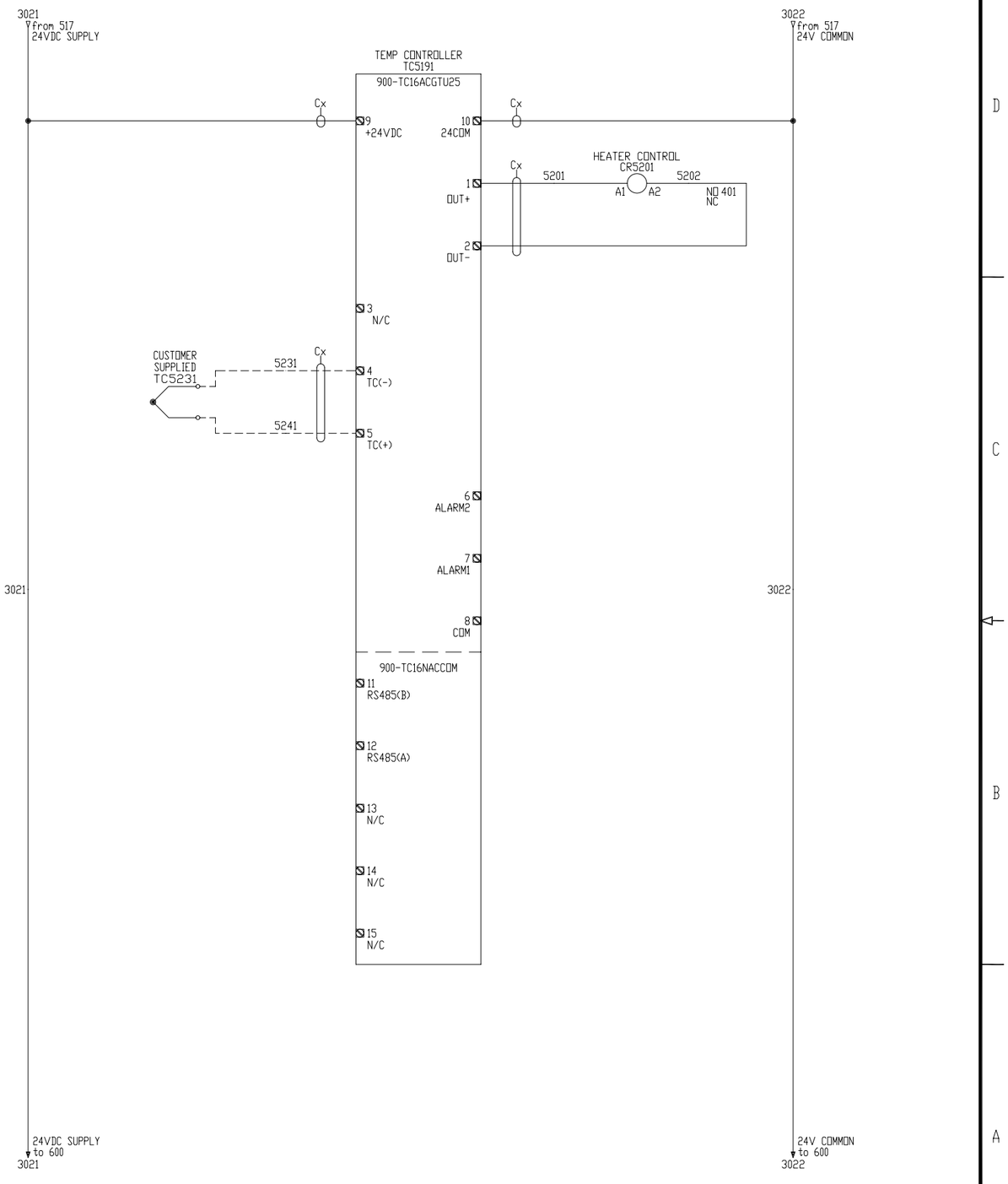
NOTES:
1. ALL WIRES TO BE xxxV, xx*, xxx.
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.
5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.
6. ALL GROUND WIRES ARE #xx AWG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

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxxx xx xxx xxxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL 277VAC CONTROL	DWN xx	DATE 10-17-08
			DWG NO EXAMPLE	DWG REV XX
			CUST	SHEET 4 OF XX

CAD PART CCBB_TC_460_4_277VAC_CONTROL.DWG

LAYERING SELECT: ECHO





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.

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxxx xx xxx xxxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL 24VDC CONTROL
DWN xx	DATE 10-17-08	
DWG NO EXAMPLE	DWG REV XX	
CUST	SHEET 5 OF XX	

3021
from 535
24VDC SUPPLY

3022
from 535
24V COMMON

3021
from 617
24VDC SUPPLY

3022
from 617
24V COMMON

600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617

618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635

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3021

3022

3021

3022

24VDC SUPPLY
to 618
3021

24V COMMON
to 618
3022

24VDC SUPPLY
to 700
3021

24V COMMON
to 700
3022

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxx xx xxx xxxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL SAFETY RELAYS	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 6 OF XX

CAD PART CCBB_TC_460_6_SAFETY_RELAYS.DWG

LAYERING SELECT: ECHO

3021
from 635
24VDC SUPPLY

3022
from 635
24V COMMON

3021
from 717
24VDC SUPPLY

3022
from 717
24V COMMON

700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717

718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735

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3021 3022 3021 3022

24VDC SUPPLY
to 718,718
3021

24V COMMON
to 718,718
3022

24VDC SUPPLY
to 800
3021

24V COMMON
to 800
3022

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxx xx xxx xxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL 24VDC CONTROL	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 7 OF XX

CAD PART CCBB_TC_460_7_24VDC_CONTROL.DWG

LAYERING SELECT: ECHO

3021
from 735
24VDC SUPPLY

3022
from 735
24V COMMON

3021
from 817
24VDC SUPPLY

3022
from 817
24V COMMON

800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817

818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835

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3021

3022

3021

3022

24VDC SUPPLY
to 818
3021

24V COMMON
to 818
3022

24VDC SUPPLY
??
3021

24V COMMON
??
3022

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxx xx xxx xxxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL DRIVES I/O	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX SHEET 8 OF XX CUST	

CAD PART CCBB_TC_460_8_POWERFLEX_4M_IO.DWG

LAYERING SELECT: ECHO

3021
from 835
24VDC SUPPLY

3022
from 835
24V COMMON

3021
from 917
24VDC SUPPLY

3022
from 917
24V COMMON

900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917

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3021 3022

24VDC SUPPLY
to 918
3021

24V COMMON
to 918
3022

918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935

3021 3022

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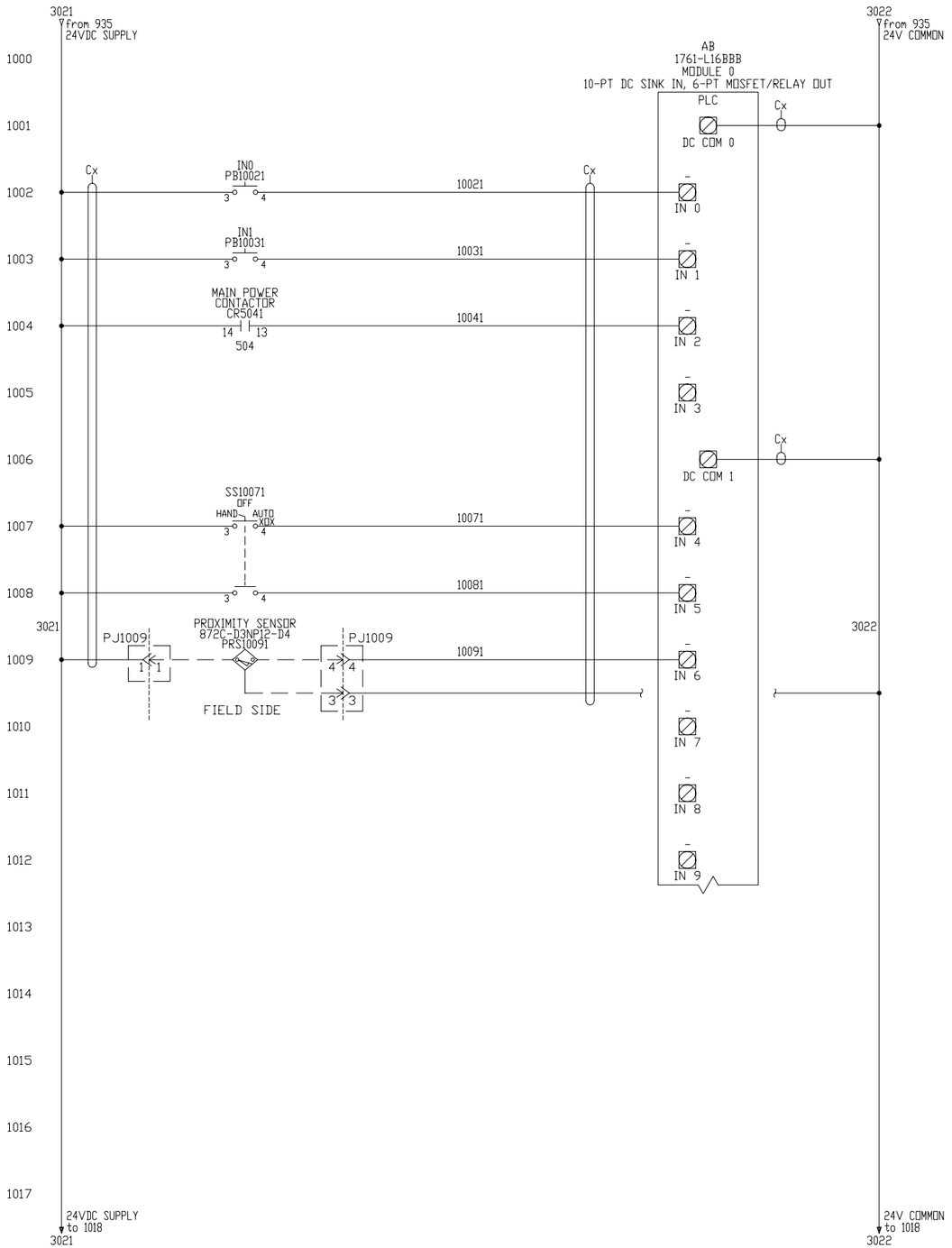
24VDC SUPPLY
to 1000
3021

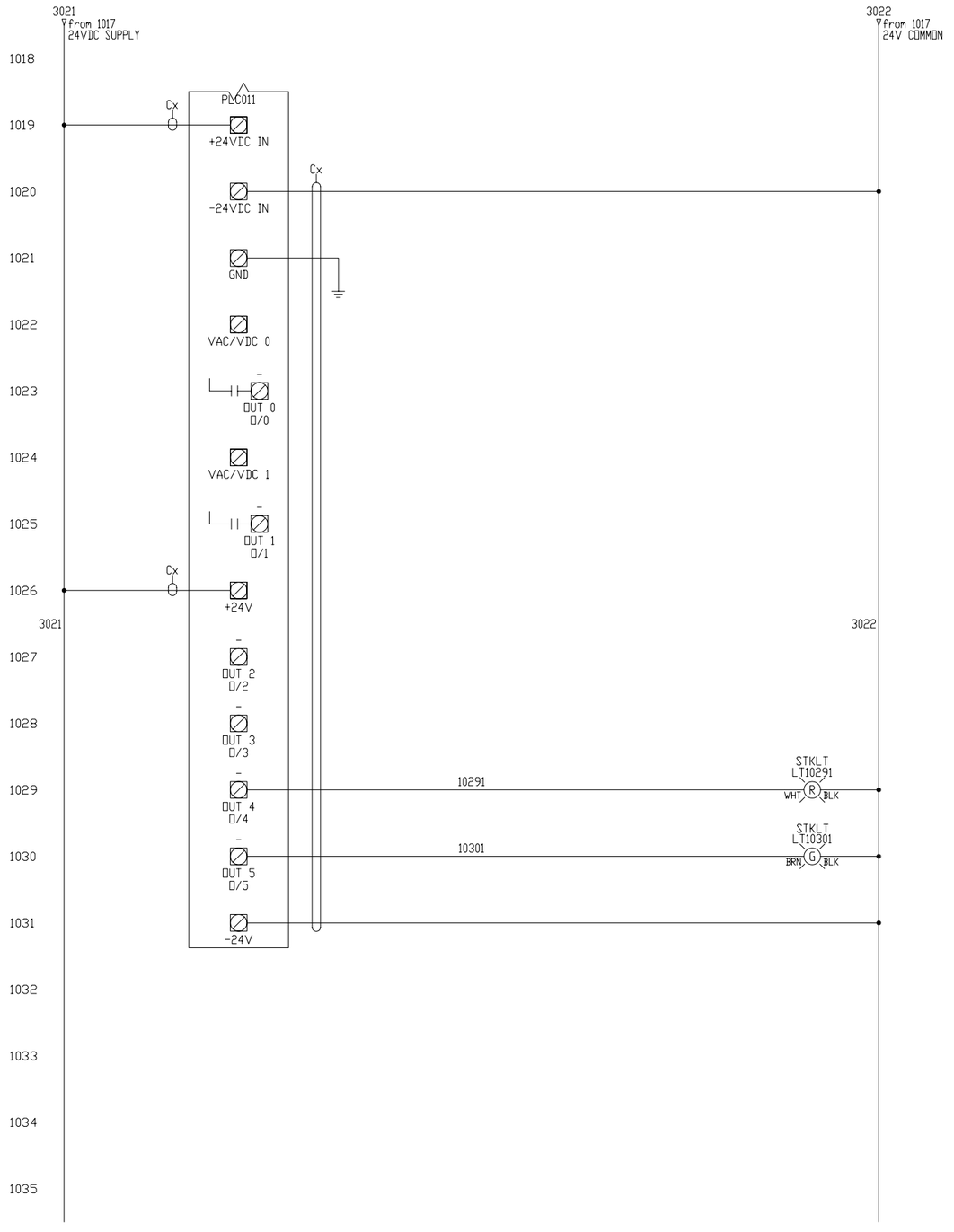
24V COMMON
to 1000
3022

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxx xx xxx xxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL DRIVES I/O	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 9 OF XX

CAD PART CCBB_TC_460_9_POWERFLEX_40P_IO.DWG

LAYERING
SELECT: ECHO





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.

xxxx xxxxxxx xx xxx xxxxxxxxx xx xxxxxxxx xxxxxxxxxx xx xxx xxxxxxxxxxxx xxxxxxxxx xxxxx xx xxxxxxxxxxxx xxx xxx xxxxxx xxxxxx xx xxxxxxxxx	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL PLC I/O	DWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 10 OF XX

CAD PART CCBB_TC_460_10_PLC_IO.DWG

LAYERING SELECT: ECHO

1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117

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1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135

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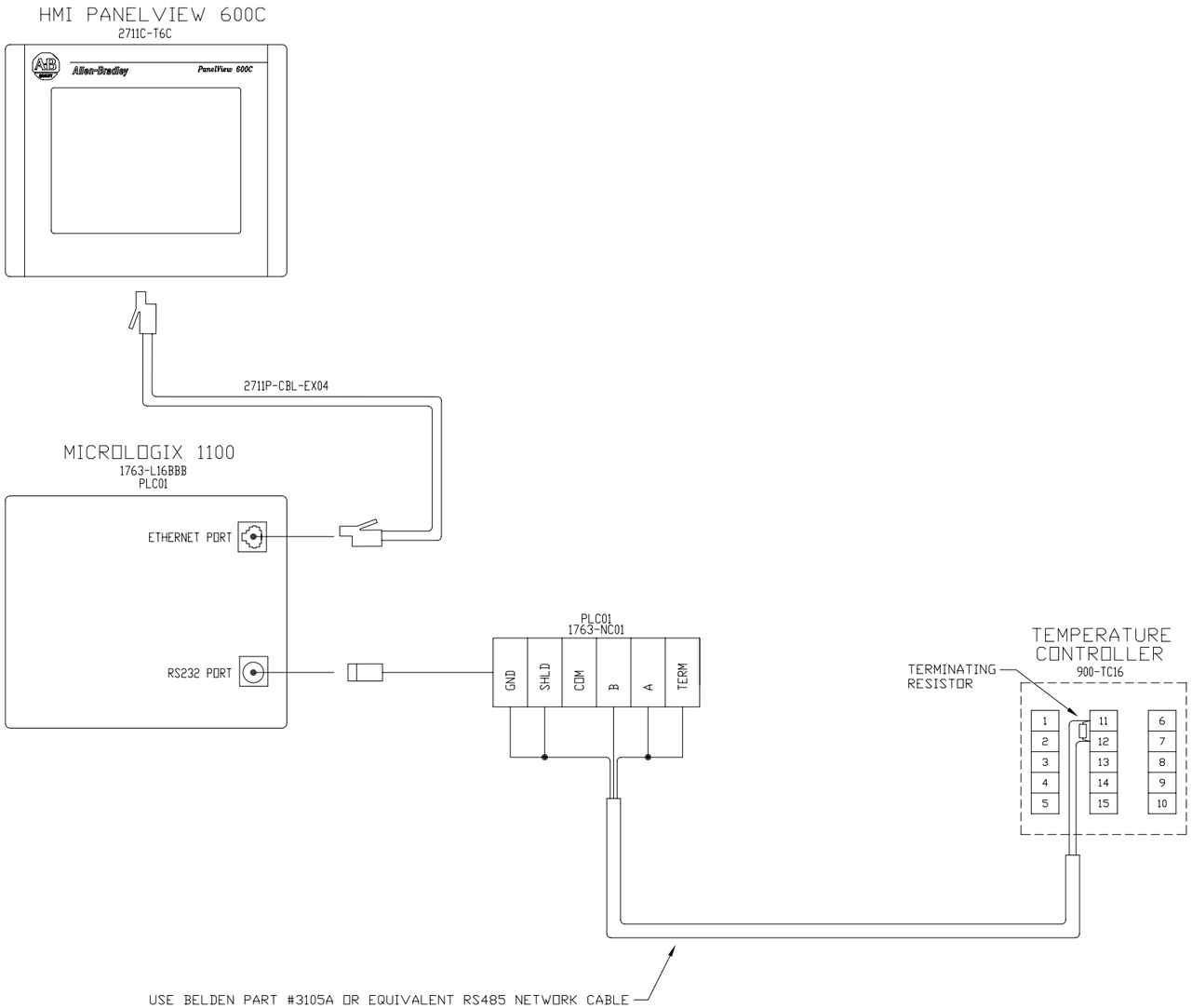
D C B A

XXXX XXXXXXX XX XXX XXXXXXXXX XX XXXXXXX XXXXXXXXX XX XXX XXXXXXXXXXX XXXXXXXXX XXXXX XX XXXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXX	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL PLC I/O	DWN XX DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 11 OF XX

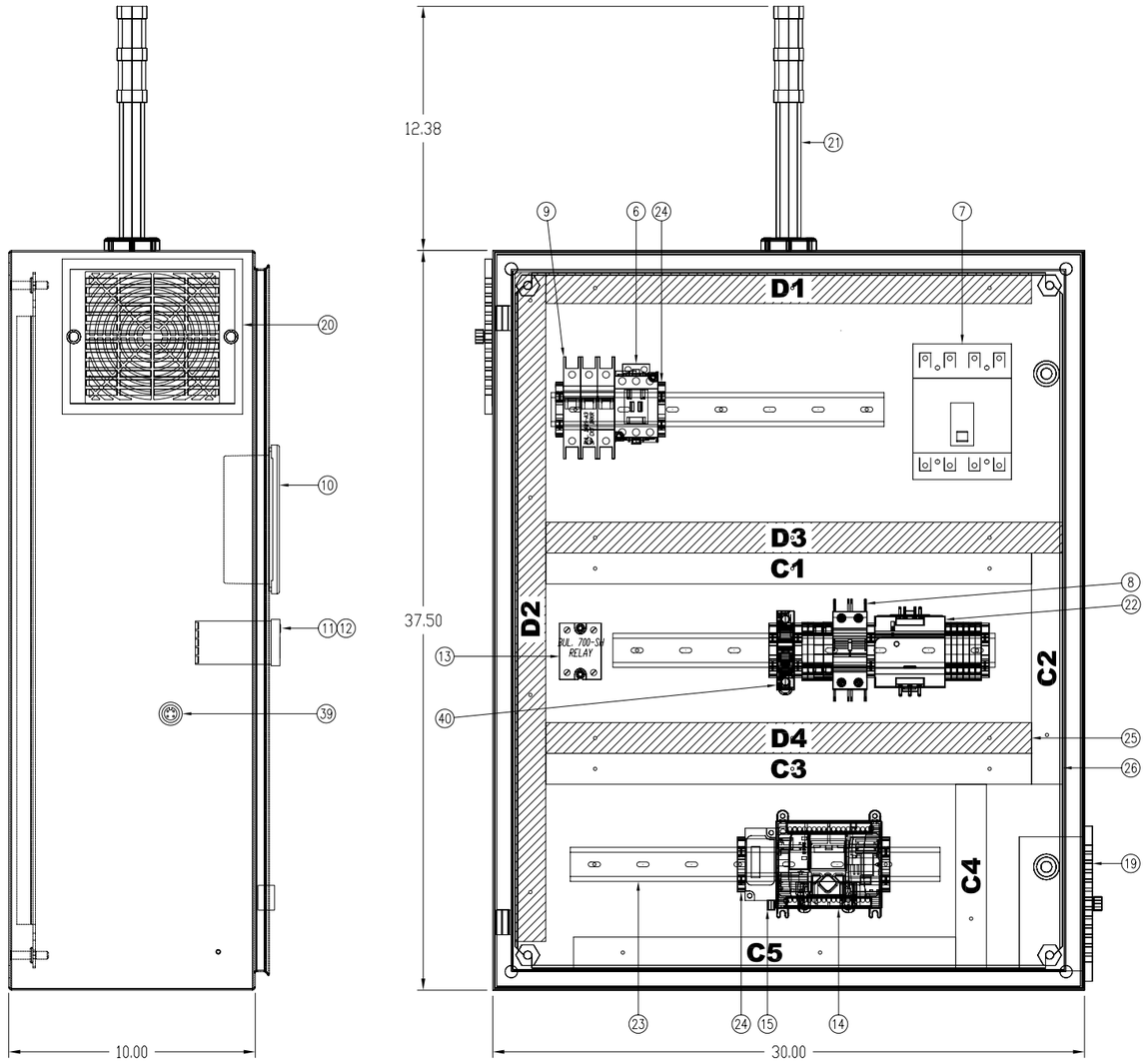
CAD PART CCBB_TC_460_11_PLC_IO.DWG LAYERING SELECT: ECHO



XXXX XXXXXXX XX XXX XXXXXXXXX XX XXXXXXXX XXXXXXXXXX XX XXX XXXXXXXXXXX XXXXXXXXX XXXXX XX XXXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXX	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL COMMUNICATION DIAGRAM	DWN XX DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 12 OF XX

CAD PART CCBB_TC_460_12_COMM_DIAGRAM.DWG

LAYERING SELECT: ECHO



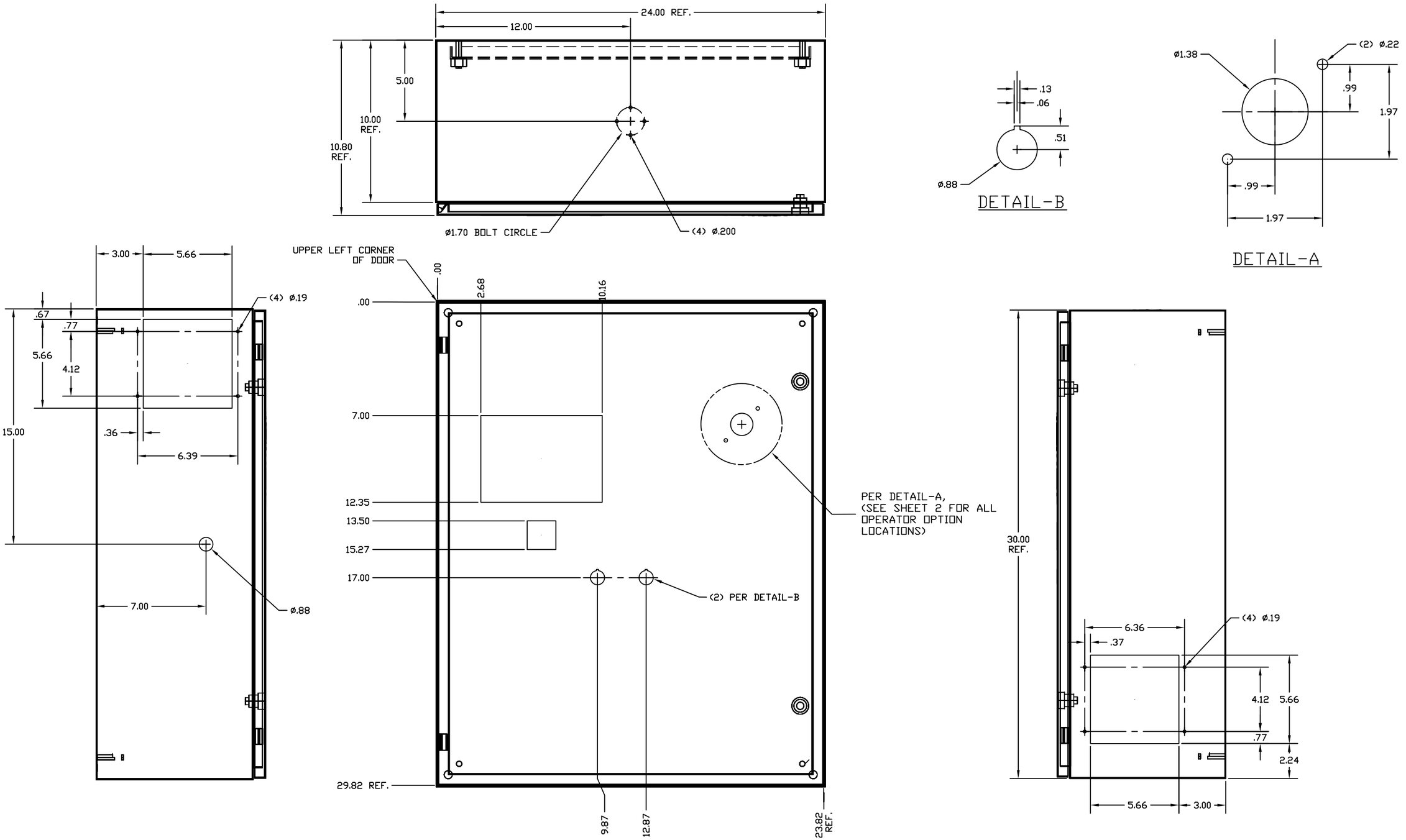
ITEM	QTY	DESCRIPTION	MFG	CATALOG
1	1	NEMA1 ENCLOSURE 30"x24"x10"	HOF	CSD302410
2	1	PANEL FOR ENCLOSURE 21"x22.5"	HOF	CP3024
3				
4				
5				
6	1	CONTACTOR MCS-C, IEC,37A, 24V DC, SINGLE PACK	AB	100-C40ZJ200
7	1	CIRCUIT BREAKER IEC, H-FRAME T/M 32 AMP	AB	140UE-H2E4-C32
8	1	CIRCUIT BREAKER 2 POLE 10 AMP 480/277VAC	AB	1489-A2D100
9	1	CIRCUIT BREAKER 3 POLE 7 AMP 480/277VAC	AB	1489-A3C070
10	1	6" COLOR (TRANSMISSIVE CSTN) TOUCHSCREEN	AB	2711C-T6C
11	1	TEMPERATURE CONTROLLER 24VDC, 1/16DIN, 1ALG OUT	AB	900-TC16ACGTU25
12	1	TEMPERATURE CONTROLLER COMM OPTION RS485	AB	900-TC16NACCOM
13	1	SOLID STATE RELAY	AB	700-SH25WA25
14	1	MICROLOGIX 1100, 24VDC POWER	AB	1763-L16BBB
15	1	CABLE MLX 1100 CH. 0(8-pin DIN) TO RS485(6-pin PHOENIX)	AB	1763-NC01
16				
17				
18	1	STRATIX 6000 8 PORT ETHERNET SWITCH(1783-EMS08T)	AB	9300-8EDM
19	1	FAN KIT 115V WITH FILTER	HOFFMAN	TFP41
20	1	EXHAUST GRILL WITH FILTER	HOFFMAN	TEP4
21	1	STACKLIGHT 30mm S.M. 24VAC/DC GRN, RED LED	AB	885D-P00SC20G24Y3Y4
22	1	COMPACT POWER SUPPLY, 24VDC OUTPUT, 120/240VAC INPUT	AB	1606-XLP95E
23	3	35mm DIN RAIL	AB	199-DR1
24	8	END ANCHOR USED w/STANDARD 35mm DIN	AB	1492-EAJ35
25	–	PANDUIT WIRE DUCT, 1"x4" GRAY	PANDUIT	F1X4LG6
26	–	PANDUIT WIRE DUCT COVER, 1" GRAY	PANDUIT	C1LG6
27	–	PANDUIT WIRE DUCT, 1" x4" WHITE	PANDUIT	F1X4WH6
28	–	PANDUIT WIRE DUCT COVER, 1" WHITE	PANDUIT	C1WH6
29	1	3 POS. SELECTOR SWITCH, MAINTAINED, BLACK	AB	800FP-SM32
30	1	MUSHROOM HEAD PUSHBUTTON, TWIST TO RELEASE	AB	800FP-MT44
31	1	E-STOP LEGEND PLATE	AB	800F-15YE112
32	1	SELECTOR SWITCH LEGEND PLATE, AUTO-OFF-HAND	AB	800F-11WE104
33	1	PUSHBUTTON, EXTENDED HEAD, RED	AB	800FP-E405
34	1	PUSHBUTTON, FLUSH HEAD, GREEN	AB	800FP-F306
35	4	CONTACT BLOCK, N.O.	AB	800F-X10
36	2	CONTACT BLOCK, N.C.	AB	800F-X01
37	4	PLASTIC MOUNTING LATCH	AB	800F-ALP
38	1	CIRCUIT BREAKER OPERATOR W/ROD	AB	140U-H-RVM12R
39	1	RECEPTACLE (M12), FEMALE, STRAIGHT, 4 PIN, 22AWG	AB	888D-F4AC1-1
40	1	UFUSE HOLDER W/1 POLE CLASS CC TYPE 30A FUSE	AB	1492-FB1C30

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 XXXXXXX XX XXX XXXXXXXXX XX XXXXXXX XXXXXXXXX XX XXX XXXXXXXXXXX XXXXXXXXX XXXXX XX XXXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXX	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL PANEL LAYOUT	DWN XX DATE 10-17-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 13 OF XX

CAD PART CCBB_TC_460_13_PANEL_LAYOUT.DWG

LAYERING SELECT: ECHO



DOOR MODIFICATION

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

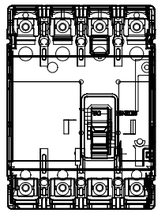
XXXX XXXXXXX XX XXX XXXXXXXXX XX XXXXXXX XXXXXXXXX XX XXX XXXXXXXXXXX XXXXXXXX XXXXX XX XXXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL ENCLOSURE DOOR LAYOUT	DRAWN xx DATE 10-17-08 DWG NO EXAMPLE DWG REV XX SHEET 14 OF XX

CAD PART CCBB_TC_460_14_ENCLOSURE_DOOR_LAYOUT.DWG

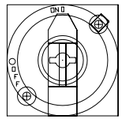
LAYERING SELECT: ECHO

ADDITIONAL PARTS LIST

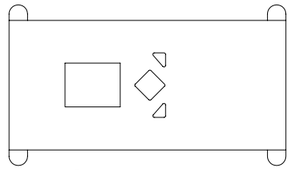
ITEM	DESCRIPTION	MFG	CATALOG
50	ROTARY VARIABLE DEPTH MECHANISM	AB	140U-RVM12R
51	"F" FRAME CIRCUIT BREAKER	AB	140UE-H2EA-C32
52	30A FUSED DISCONNECT	AB	194R-C30-1753
53	60A FUSED DISCONNECT	AB	194R-D32/D63-1753
54	MICROLOGIX 1400, 24VDC, DIGITAL I/O, ANALOG I/O, ETHERNET	AB	1766-L32BXBA
55	STRATIX 6000, 8 PORT ETHERNET SWITCH	AB	9300-8EDM
56	REMOTE ACCESS ETHERNET SWITCH	AB	9300-RADES
57	STRATIX 6000 SWITCH, ENTRY-LEVEL MANAGED, 8-PORT	AB	1783-EMS08T
58	STRATIX 2000 SWITCH, UNMANAGED, 5-COPPER PORTS	AB	1783-US05T



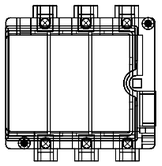
(51) 'F' FRAME CIRCUIT BREAKER



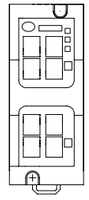
(50) ROTARY VARIABLE DEPTH MECHANISM



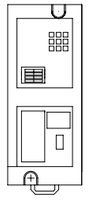
(54) MICROLOGIX 1400



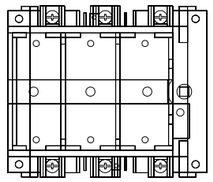
(52) 30A FUSED DISCONNECT



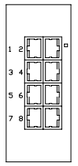
(55) ETHERNET SWITCH



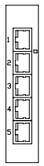
(56) REMOTE ACCESS ETHERNET SWITCH



(53) 60A FUSED DISCONNECT



(57) ETHERNET SWITCH



(58) ETHERNET SWITCH

XXXX XXXXXXX XX XXX XXXXXXXXX XX XXXXXXXX XXXXXXXXX XX XXX XXXXXXXXXXXX XXXXXXXXX XXXXX XX XXXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXX	***XXXXXX_XXXX*** ***XXXXXX***	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL ADDITIONAL PARTS	DWN XX DATE 11-07-08 DWG NO EXAMPLE DWG REV XX CUST SHEET 15 OF XX

CAD PART CCBB_TC_460_15_ADDITIONAL_PARTS.DWG

LAYERING SELECT: ECHO