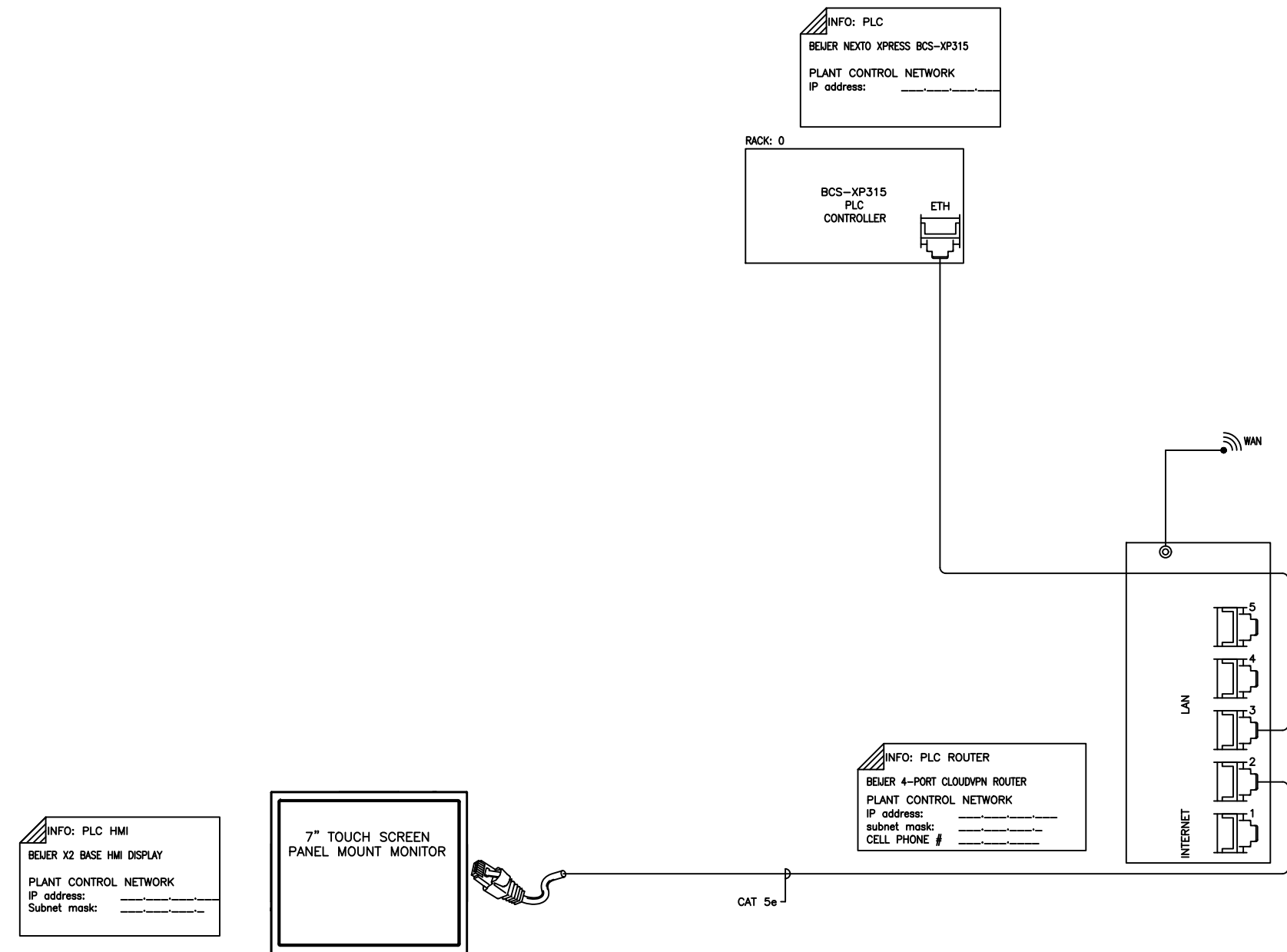




NETWORK DETAILS	
MASK	
GATEWAY	
CONNECTION	IP ADDRESS
HMI	
PLC CONTROLLER	
CLOUDVPN ROUTER	

REV	DESCRIPTION	BY	MM/DD/YYYY	CHKD	APPD	JOB No.	PERMIT	STAMP

MICA CONTROLS LTD.
CALGARY, ALBERTA, CANADA



ENGINEERING RECORD		XXXX XXXX XXXX SYSTEM ARCHITECTURE
DRAWN:	DATE:	
CHECKED:	DATE:	
APPROVED:	DATE:	
ENGINEER:	DATE:	

SCALE (= D Size)	NTS	DWG EW-09305-EWD-001	REV. 1
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1. CONTROL PANEL TO BE FITTED WITH REMOVABLE LIFTING LUGS.
2. TERMINAL STRIPS TO BE RAISED UP OFF BACKPAN BY STEEL SECTION TO ALLOW FOR EASE OF ACCESS TO TERMINALS.
3. DOOR TO BE PROVIDED WITH ALL AROUND NEOPRENE GASKET.
4. LOUVRE TO BE PROVIDED WITH SNUG & SECURELY FITTED DUST COVER.
5. TOUCHSCREEN TO BE MOUNTED ON BACK OF DOOR.
6. SEE TERMINAL STRIP CROSS REFERENCE FOR TERMINAL BLOCK QUANTITIES.
7. VENDOR TO SUPPLY SPARE FUSES FOR ITEM 63.
8. VENDOR TO USE BRAIDED SLEEVES IN LIEU OF WIREWAY FOR 120VAC LIGHTING WIRING.
9. SEE CARD SCHEMATICS FOR EXACT LAYOUT.
10. GFCI PROTECTION WILL BE APPLIED TO CIRCUIT BY CLIENT ON THE 120VAC POWER SOURCE.

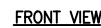
- AC HOT: BLACK
- AC NEUTRAL: WHITE
- AC GROUND: GREEN/YELLOW TRACE
- AC LOGIC: BROWN

- DC POSITIVE: RED
- DC NEGATIVE: BLACK
- DC LOGIC: **SEE BELOW**

- AC INVERTER: BLACK
- IS (INTRINSICALLY SAFE): LIGHT BLUE

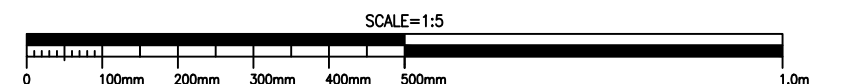
- ANALOG INPUT: PURPLE
- ANALOG OUTPUT: GREY
- DIGITAL INPUT: YELLOW
- DIGITAL OUTPUT: ORANGE

- POWER CONDUCTORS: 14 AWG TINNED TEW STRANDED COPPER RATED 105° C, 600V
- DISCRETE LOGIC: 16 AWG TINNED TEW STRANDED COPPER RATED 105° C, 600V
- ANALOG LOGIC: 18 AWG TINNED TEW STRANDED COPPER RATED 105° C, 600V

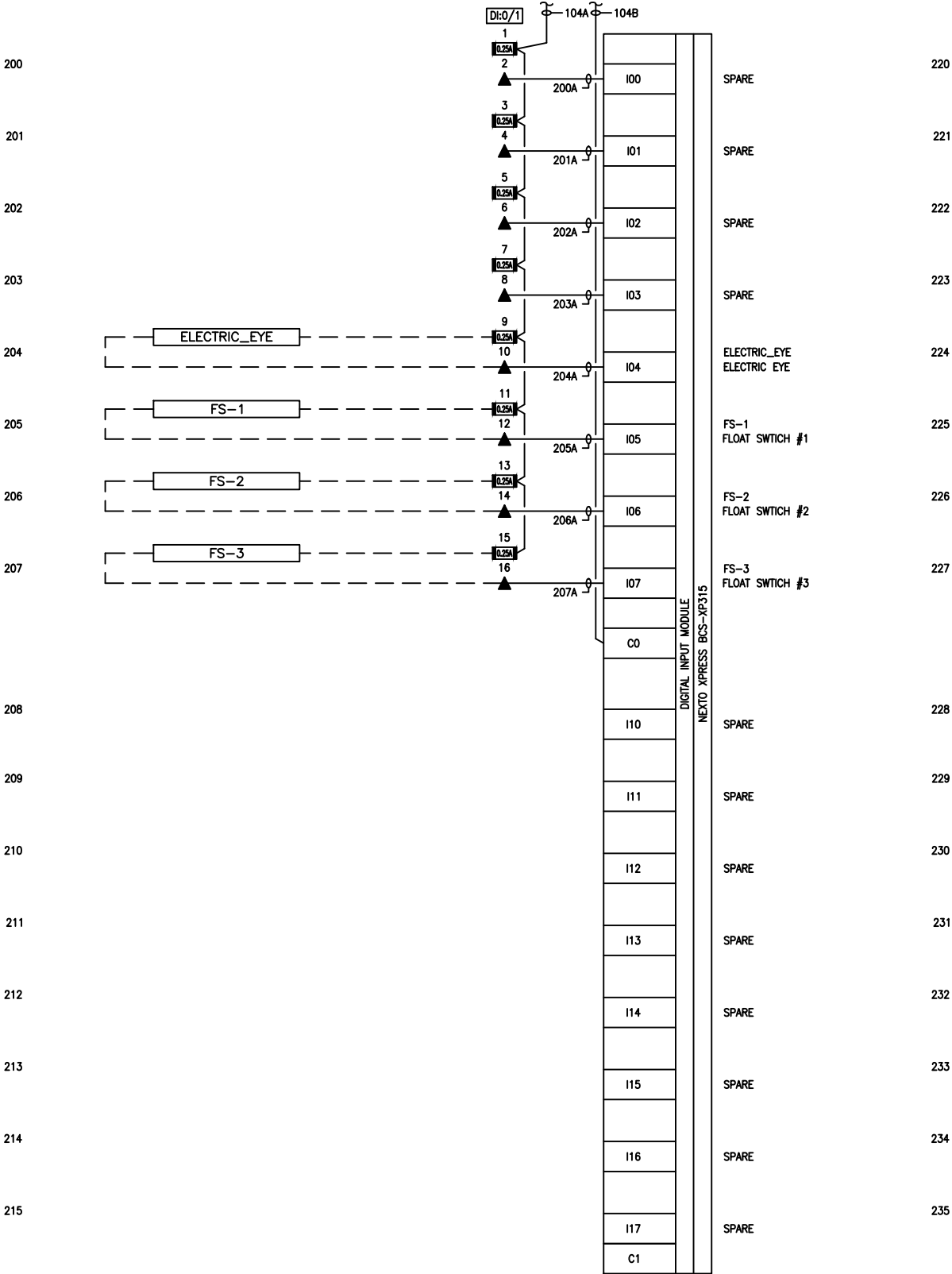


X		MATERIAL LIST				
ITEM	QTY.	DESCRIPTION	MANUFACTURER	CATALOG NO.	SIZE	SUPPLIER
1	1	MILD STEEL ENCLOSURE (CSA)		-	610x914x305	VENDOR TO ADVISE
2	1	PANEL BACK PAN		-	-	VENDOR TO ADVISE
3						
4						
5	1	QUINT4-PS/1AC/24DC/10	PHOENIX	2904601	240W,10A	PANEL VENDOR
6	1	NEXT0 XPPRESS PLC	BEJER ELECTRONICS	BCS-XP315	-	MICA CONTROLS
7						
8						
9						
10						
11						
12						
13						
14						
15	AS REQ'D	MOUNTING RAIL	WEIDMULLER	0383400000	TS 35	PANEL VENDOR
16	NOTE 6	LABEL HOLDER	WEIDMULLER	1631930000	SchT 5e	PANEL VENDOR
17	NOTE 6	END BRACKET	WEIDMULLER	0383560000	EW 35	PANEL VENDOR
18	NOTE 6	END PLATE	WEIDMULLER	1050000000	WAP	PANEL VENDOR
19	NOTE 6	TERMINAL	WEIDMULLER	102020	WDU 6	PANEL VENDOR
20	NOTE 6	TERMINAL	WEIDMULLER	102010	WDU 4	PANEL VENDOR
21	NOTE 6	TERMINAL	WEIDMULLER	102000	WDU 2.5	PANEL VENDOR
22	NOTE 6	FUSED DISCONNECT TERMINAL	WEIDMULLER	101130	WSI 6LD	PANEL VENDOR
23						
24						
25						
26	NOTE 6	DC CIRCUIT BREAKER	WEIDMULLER	-	15A	VENDOR TO ADVISE
27						
28						
29						
30	AS REQ'D	WIREWAY & COVER (WHITE)	PANDUIT	-	50Wx100H	PANEL VENDOR
31						
32						
33	1	BEJER X2 BASE HMI DISPLAY c/w COMM. CABLE	BEJER ELECTRONICS	640013905	7"	MICA CONTROLS
34						
35	1	CLOUD VPN ROUTER	BEJER ELECTRONICS	600-0002	-	MICA CONTROLS
36	3	HIGH CURRENT RELAY MODULE (HCRM)	EMPHATEC DEPRO	330218	-	MICA CONTROLS
37	3	110 VAC RECEPTACLE			-	VENDOR TO ADVISE
38						
39	1	GROUND LUG	BLACKBURN	ADR2		PANEL VENDOR
40	1	GROUND BUS	OPEN			PANEL VENDOR
41						
42						
43						
44						
45						

TERMINAL STRIP CROSS REFERENCE																	
DESCRIPTION	ITEM	(16)	(17)	(18)	(19)	(20)	(21)	(22)					(26)				
120VAC	(C)	1	2	1	4								4				
24VDC	(D)	1	2	1		7		7									
DISCRETE INPUTS	(E)	1	2	1			8	8									
DISCRETE OUTPUTS	(F)	1	2	1			16	16									
	TOTAL	4	8	4	4	7	24	31					4				

[illegible]

NEXTO XPRESS BCS-XP315 - DIGITAL INPUT MODULE
CONTINUED FROM LINE 124



- LEGEND:
- PLC CONTROL PANEL FUSED DISCONNECT
 - PLC CONTROL PANEL DISCONNECT TERMINAL
 - PLC CONTROL PANEL TERMINAL (24VDC)
 - PLC CONTROL PANEL TERMINAL (120VAC)
 - VENDOR PANEL TERMINAL (24VDC)
 - VENDOR PANEL TERMINAL (120VAC)
 - MCC/STARTER/VFD TERMINAL
 - CONTACTOR PANEL TERMINAL (24VDC)
 - CONTACTOR PANEL TERMINAL (120VAC)
 - JB TS
 - FIELD JUNCTION BOX TERMINAL

REV	DESCRIPTION	BY	MM/DD/YYYY	CHKD	APPD	JOB No.

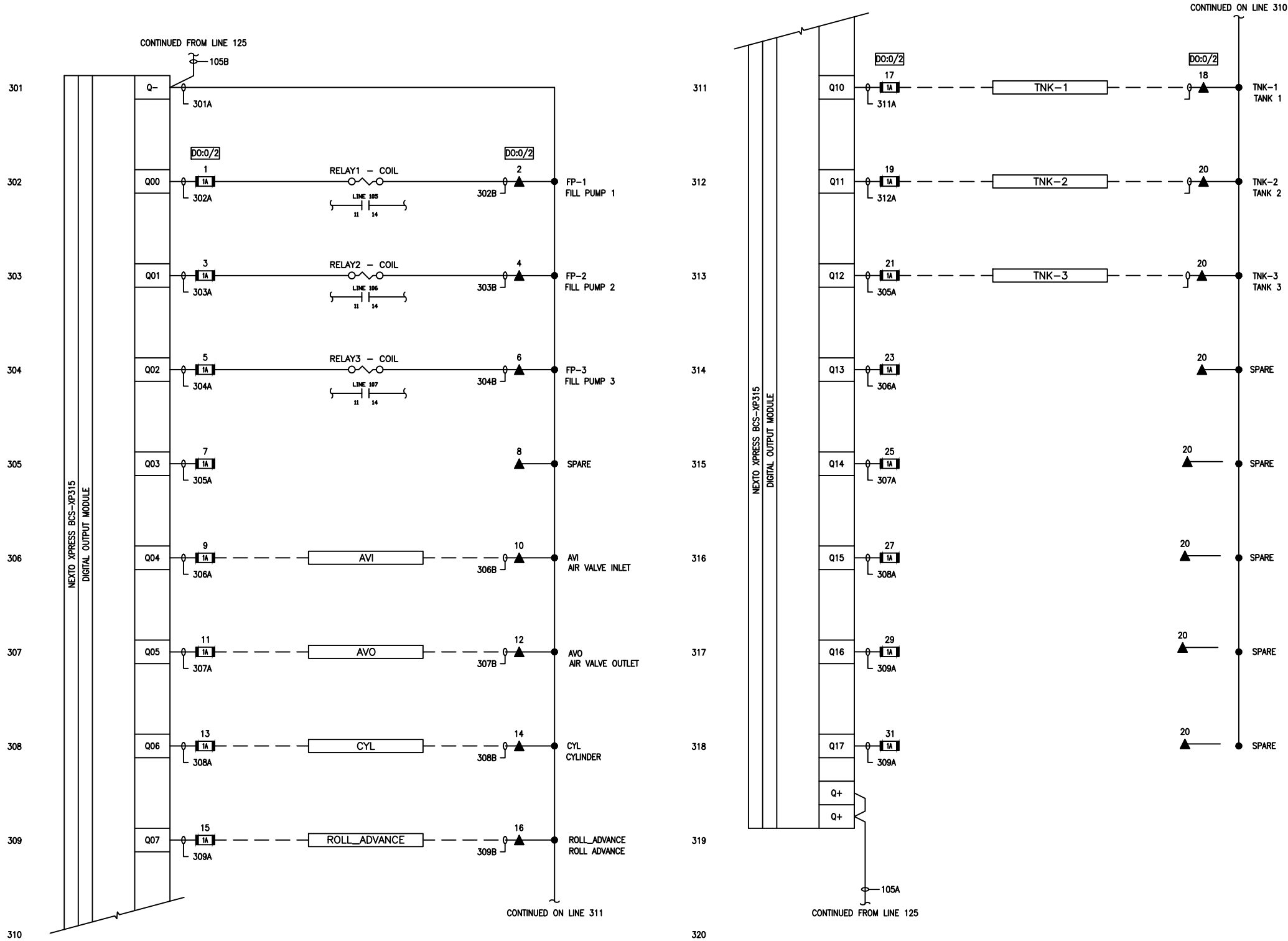
PERMIT

STAMP

ENGINEERING RECORD		XXXX XXXX XXXX	
DRAWN:	DATE:	PLC CONTROL PANEL - DIGITAL INPUT MODULE	
CHECKED:	DATE:		
APPROVED:	DATE:		
ENGINEER:	DATE:		
SCALE (D Size)	NTS	DWG EW-09305-EWD-004	REV. 1



NEXTO XPRESS BCS-XP340 – DIGITAL OUTPUT MODULE



LEGEND:

- | | |
|---|---------------------------------------|
|  | PLC CONTROL PANEL FUSED DISCONNECT |
|  | PLC CONTROL PANEL DISCONNECT TERMINAL |
|  | PLC CONTROL PANEL TERMINAL (24VDC) |
|  | PLC CONTROL PANEL TERMINAL (120VAC) |
|  | VENDOR PANEL TERMINAL (24VDC) |
|  | VENDOR PANEL TERMINAL (120VAC) |
|  | MCC/STARTER/VFD TERMINAL |
|  | CONTACTOR PANEL TERMINAL (24VDC) |
|  | CONTACTOR PANEL TERMINAL (120VAC) |
| JB
TS | |
|  | FIELD JUNCTION BOX TERMINAL |

[illegible]