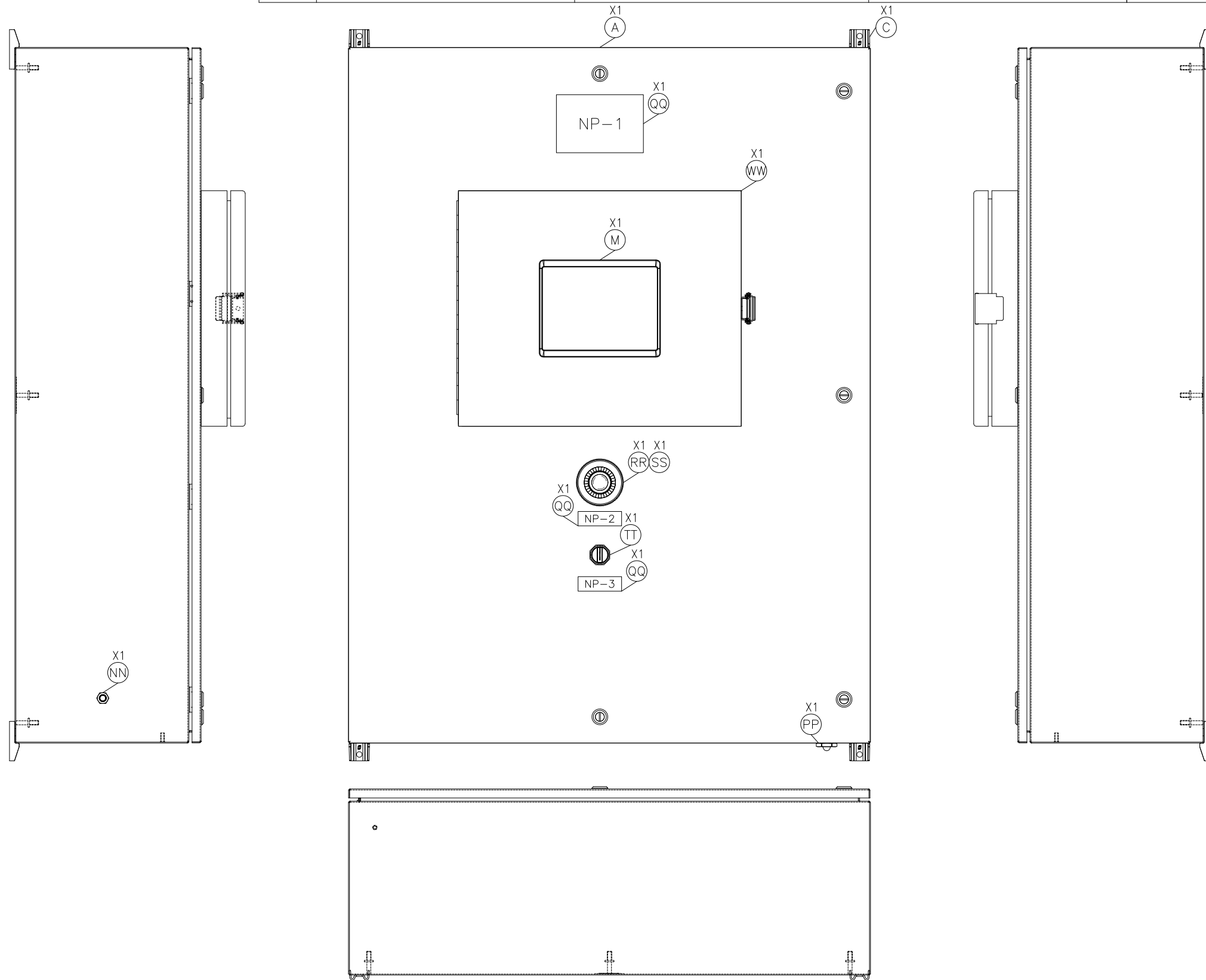


MAIN PANEL NAMETAG LEGEND

ITEM	FIRST LINE	SECOND LINE	THIRD LINE	FOURTH LINE	TAG SIZE	LETTERS	BCKGRND
NP-1	FORUM ENERGY TECHNOLOGIES	AUTOMATIC QUICK CONNECT SYSTEM	PLC CONTROL PANEL	-	4" x 6"	BLACK	WHITE
NP-2	EMERGENCY	SHUTDOWN	-	-	1" x 3"	RED	WHITE
NP-3	MANUAL/BYPASS	SELECTOR SWITCH	-	-	1" x 3"	BLACK	WHITE

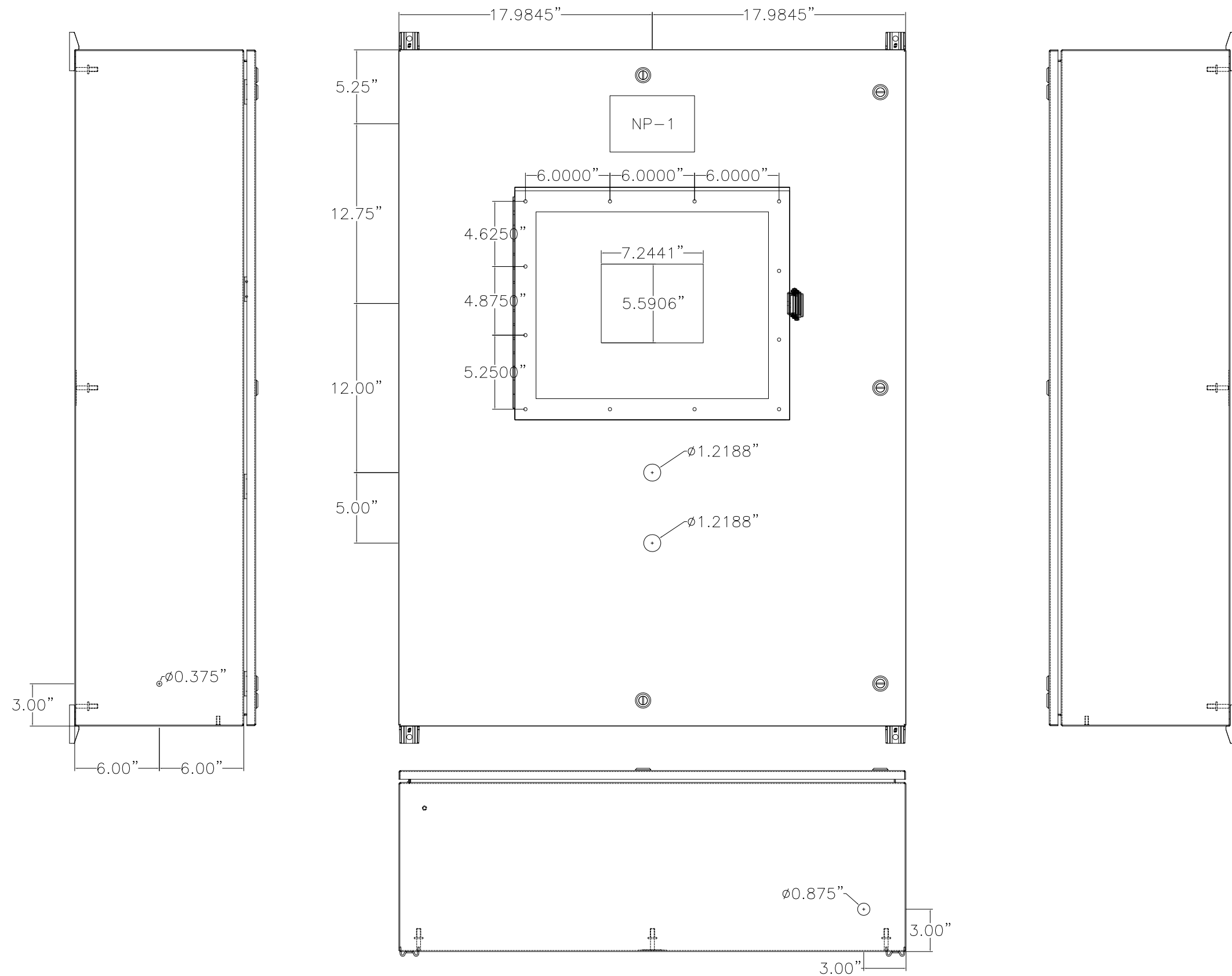


Rev.	By	Approved	Date	Description
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Client:				Title: FORUM ENERGY TECHNOLOGIES AUTOMATIC QUICK CONNECT SYSTEM PLC CONTROL PANEL NAMETAG LAYOUT DETAIL		
Design By:	Drawn By:	Dwg Date:	Scale:	Job No.	Dwg No.	Sheet: 01
CRB	CRB	5/10/2022	NTS	1806	1806-HLA-CPLC-01-14	Of: 14



NOTES:
 1. CUSTOM O.I.T. MOUNTING HOLE DIMENSIONS TO BE VERIFIED BY PANEL FABRICATOR BASED ON HOLES LOCATION OF O.I.T. BEFORE DRILLING OUT HOLES.

Rev.	By	Approved	Date	Description
A	CRB		06/17/2022	ISSUED FOR APPROVAL



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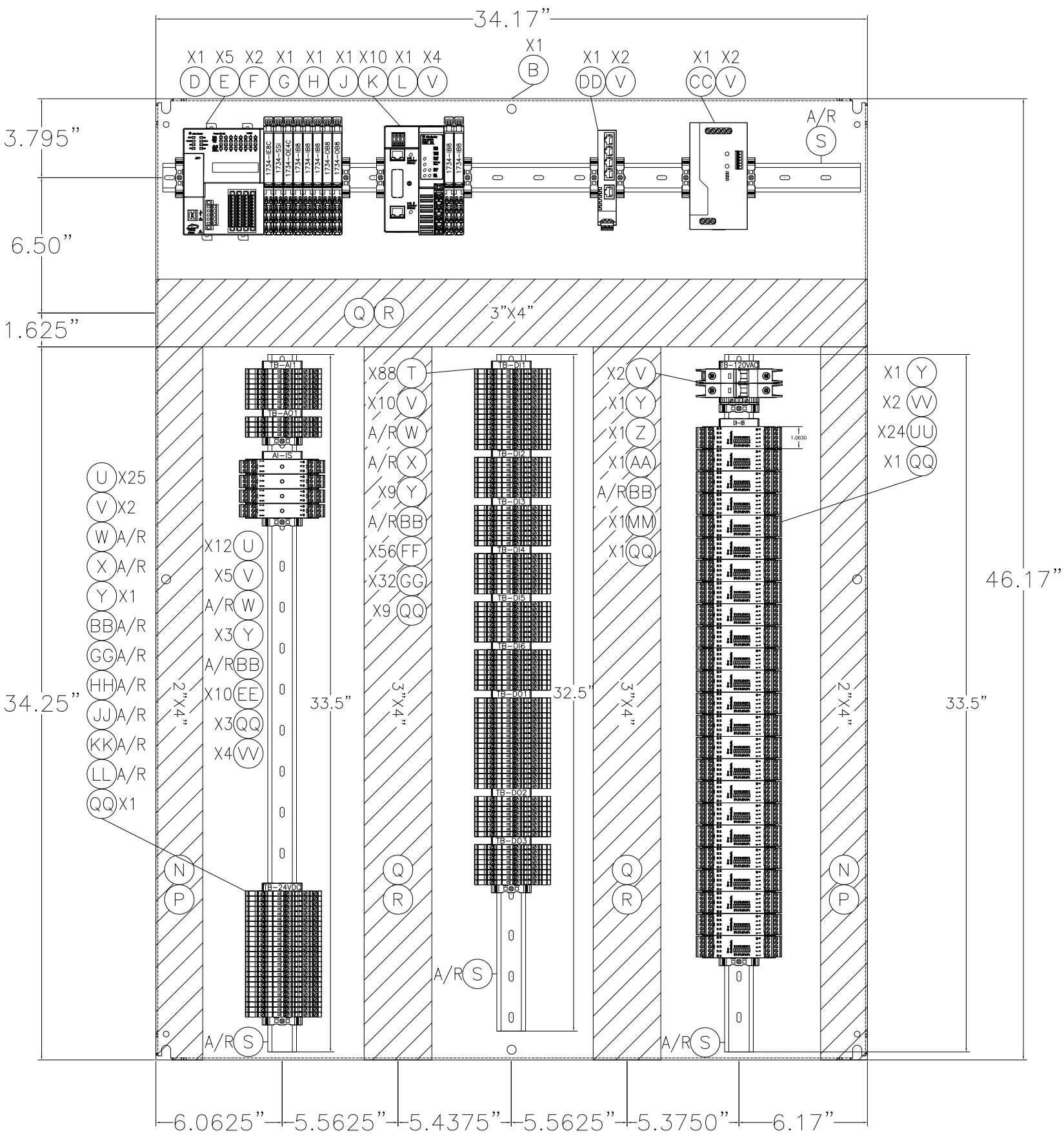


Client: FORUM ENERGY TECHNOLOGIES
 AUTOMATIC QUICK CONNECT SYSTEM
 PLC CONTROL PANEL
 ENCLOSURE LAYOUT DETAIL

Design By	Drawn By	Dwg Date	Scale	Job No.	Dwg No.	Sheet Of
CRB	CRB	5/10/2022	NTS	1806	1806-HLA-CPLC-02-14	02 14

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	PART NO	MFG
A	1	48"H X 36"W X 12"D TYPE 4X ECLIPSE ENCLOSURE	EN4SD483612SSR	HAMMOND MFG.
B	1	46.17"H X 34.17"W INNER SUBPANEL, WHITE ENAMEL	EP4836	HAMMOND MFG.
C	1	304 STAINLESS STEEL MOUNTING FEET KIT, PK OF 4	ESSMFHD	HAMMOND MFG.
D	1	COMPACTLOGIX 5370 PLC, W/ EMBEDDED I/O, 24VDC	1769-L19ER-BB1B	ALLEN BRADLEY
E	5	POINT I/O 8-CH DIGITAL INPUT MODULE, SINK	1734-IB8	ALLEN BRADLEY
F	2	POINT I/O 8-CH DIGITAL OUTPUT MODULE, SOURCE	1734-OB8	ALLEN BRADLEY
G	1	POINT I/O 8-CH ANALOG CURRENT INPUT MODULE	1734-IE8C	ALLEN BRADLEY
H	1	POINT I/O 2-CH ANALOG CURRENT OUTPUT MODULE	1734-OE2C	ALLEN BRADLEY
J	1	POINT I/O (SSI) ABSOLUTE ENCODER INTERFACE MODULE	1734-SSI	ALLEN BRADLEY
K	10	FLEX I/O 32-CHANNEL DIGITAL INPUT MODULE	1734-TOP	ALLEN BRADLEY
L	1	POINT I/O NETWORK ADAPTER, ETHERNET/IP, 24VDC	1734-AENT	ALLEN BRADLEY
M	1	PANELVIEW PLUS 7 STD 7" GRAPHIC TERMINAL, 24VDC	2711P-T7C21D8S	ALLEN BRADLEY
N	A/R	NARROW SLOTTED WIRE DUCT, 2"W X 4"H, LIGHT GRAY	F2X4LG6	PANDUIT
P	A/R	WIRE DUCT COVER, 2"W, LIGHT GRAY	C2LG6	PANDUIT
Q	A/R	NARROW SLOTTED WIRE DUCT, 3"W X 4"H, LIGHT GRAY	F3X4LG6	PANDUIT
R	A/R	WIRE DUCT COVER, 3"W, LIGHT GRAY	C3LG6	PANDUIT
S	A/R	NS 35/7,5 PERF 2000MM DIN RAIL, PERFORATED	0801733	PHOENIX CONTACT
T	88	UT 4-L/HESILED 24 (5X20) FUSE MOD. TERM BLOCK	3214366	PHOENIX CONTACT
U	37	UT 4-PE/L/HESILED 24 (5X20) FUSE MOD. TERM BLOCK	3214321	PHOENIX CONTACT
V	27	E/NS 35 N, END CLAMP, GRAY	0800886	PHOENIX CONTACT
W	A/R	FBS 50-6, PLUG-IN BRIDGE JUMPER, 50 POLE, RED	3032224	PHOENIX CONTACT
X	A/R	FBS 50-6 BU, PLUG-IN BRIDGE JUMPER, 50 POLE, BLUE	3032211	PHOENIX CONTACT
Y	14	KLM-A TERMINAL STRIP MARKER CARRIER	1004348	PHOENIX CONTACT
Z	1	UT 4-PE GROUND MODULAR TERMINAL BLOCK, GRN/YEL	3044128	PHOENIX CONTACT
AA	1	D-UT 2,5/10 END COVER, GRAY	3047028	PHOENIX CONTACT
BB	A/R	UCT-TM 6 MARKERS FOR TERMINAL BLOCK, 60 BLANK	0828736	PHOENIX CONTACT
CC	1	QUINT4-PS/1AC/24DC/20, IN: 1AC, OUT: 24VDC/20A	2904602	PHOENIX CONTACT
DD	1	FL SWITCH 1005N, IND. ETHERNET SWITCH 5 TX PORTS	1085039	PHOENIX CONTACT
EE	15	CERAMIC FAST ACTING CARTRIDGE FUSE, 125mA 250V	S501-125-R	BUSSMANN
FF	70	CERAMIC FAST ACTING CARTRIDGE FUSE, 500mA 250V	S501-500-R	BUSSMANN
GG	40	CERAMIC FAST ACTING CARTRIDGE FUSE, 1A 250V	S501-1-R	BUSSMANN
HH	15	CERAMIC FAST ACTING CARTRIDGE FUSE, 2A 250V	S501-2-R	BUSSMANN
JJ	10	CERAMIC FAST ACTING CARTRIDGE FUSE, 3.15A 250V	S501-3.15-R	BUSSMANN
KK	10	CERAMIC FAST ACTING CARTRIDGE FUSE, 5A 250V	S501-5-R	BUSSMANN
LL	10	CERAMIC FAST ACTING CARTRIDGE FUSE, 10A 250V	S501-10-R	BUSSMANN
MM	1	20A 1 POLE C CURVE MINIATURE CIRCUIT BREAKER	FAZ-C10-2-NA	EATON
NN	1	SERVIT POST, 3/8 STUD, ONE CABLE #3 - #6	KC22	BURNDY
PP	1	316 STAINLESS STEEL 1/2" NPT C1.D2 BREATHER/DRAIN	KDES60050	KILLARK
QQ	A/R	CUSTOM ENGRAVED PHENOLIC PANEL TAGS	API-TAG	API CONTROL SYS.
RR	1	PUSH/PULL RED JUMBO MUSHROOM HEAD PUSHBUTTON	800H-RFXJT6AF	ALLEN BRADLEY
SS	1	JUMBO PROTECTIVE GUARD RING FOR ESD PUSHBUTTONS	800T-N310J	ALLEN BRADLEY
TT	1	3 POSITION SELECTOR SWITCH W/ 2NO CONTACT BLOCK	800H-JR2 800T-XA2Y	ALLEN BRADLEY
UU	24	4 CHANNEL ISOLATING SWITCHING AMPLIFIER BARRIER	IM1-451EX-R	TURCK
VV	4	2 CHANNEL ISOLATING TRANSDUCER BARRIER	IM33-22EX-HI/24VDC	TURCK
WW	1	CUSTOM OPERATOR INTERFACE TERMINAL ENCLOSURE	CUSTOM-O.I.T.-COVER	CUSTOM



Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL

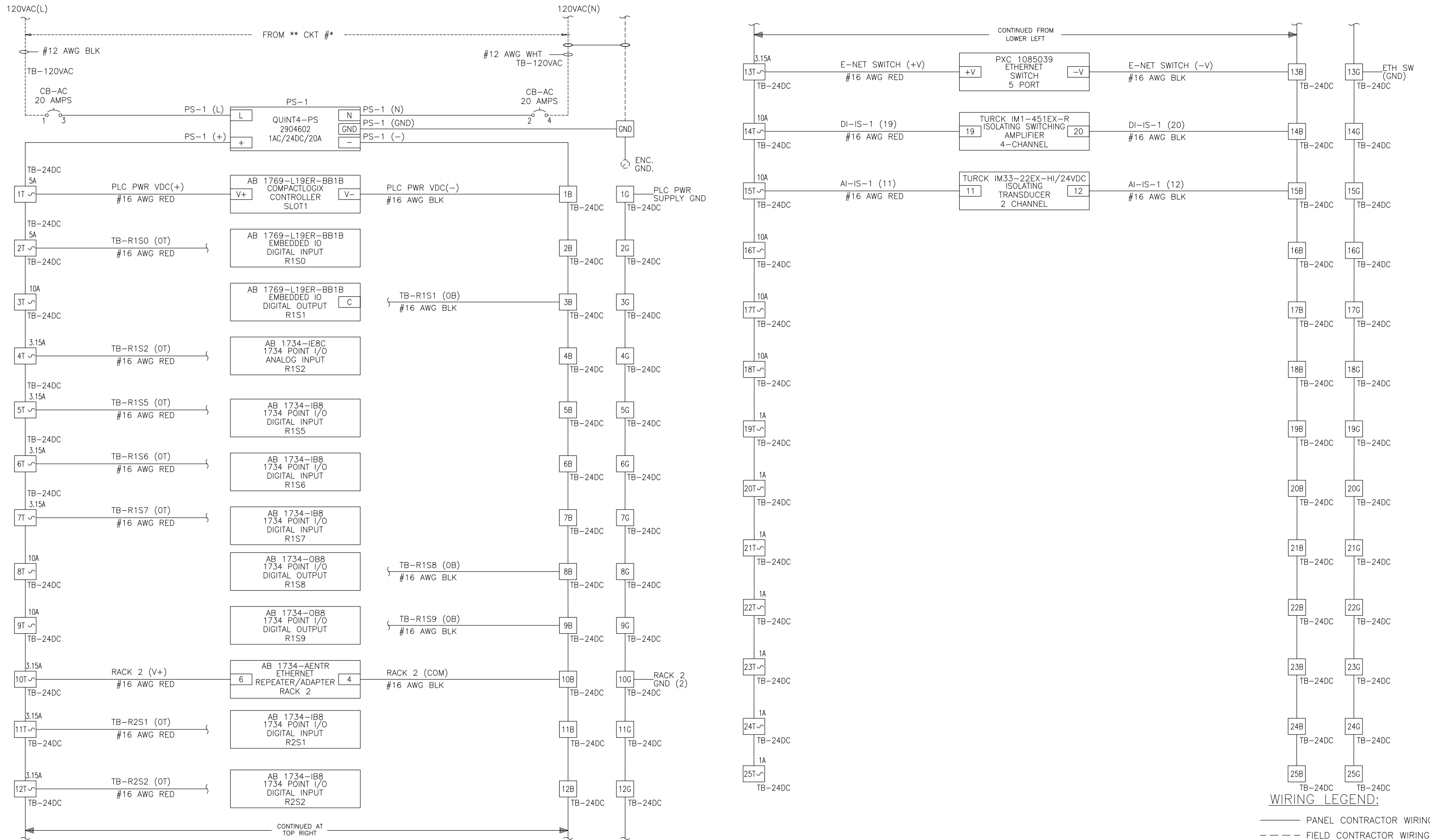


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Client: **FET** FORUM ENERGY TECHNOLOGIES
 AUTOMATIC QUICK CONNECT SYSTEM
 PLC CONTROL PANEL
 BACKPLATE LAYOUT DETAIL & BOM

Design By: CRB	Drawn By: CRB	Dwg Date: 5/10/2022	Scale: NTS	Job No. 1806	Dwg No. 1806-HLA-CPLC-03-14	Sheet: 03 Of: 14
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WIRING LEGEND:
 ——— PANEL CONTRACTOR WIRING
 - - - - FIELD CONTRACTOR WIRING

NOTES:
 1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
 2. PANEL FABRICATOR TO INSTALL CERAMIC FAST ACTING FUSES S501 SERIES.
 3. ISOLATING BARRIERS POWER TO BE JUMPED TOGETHER VIA WIRE JUMPERS.

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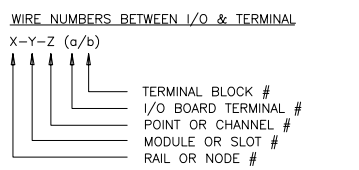
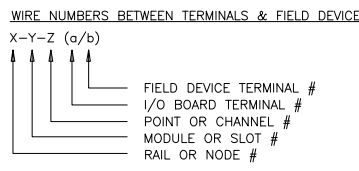
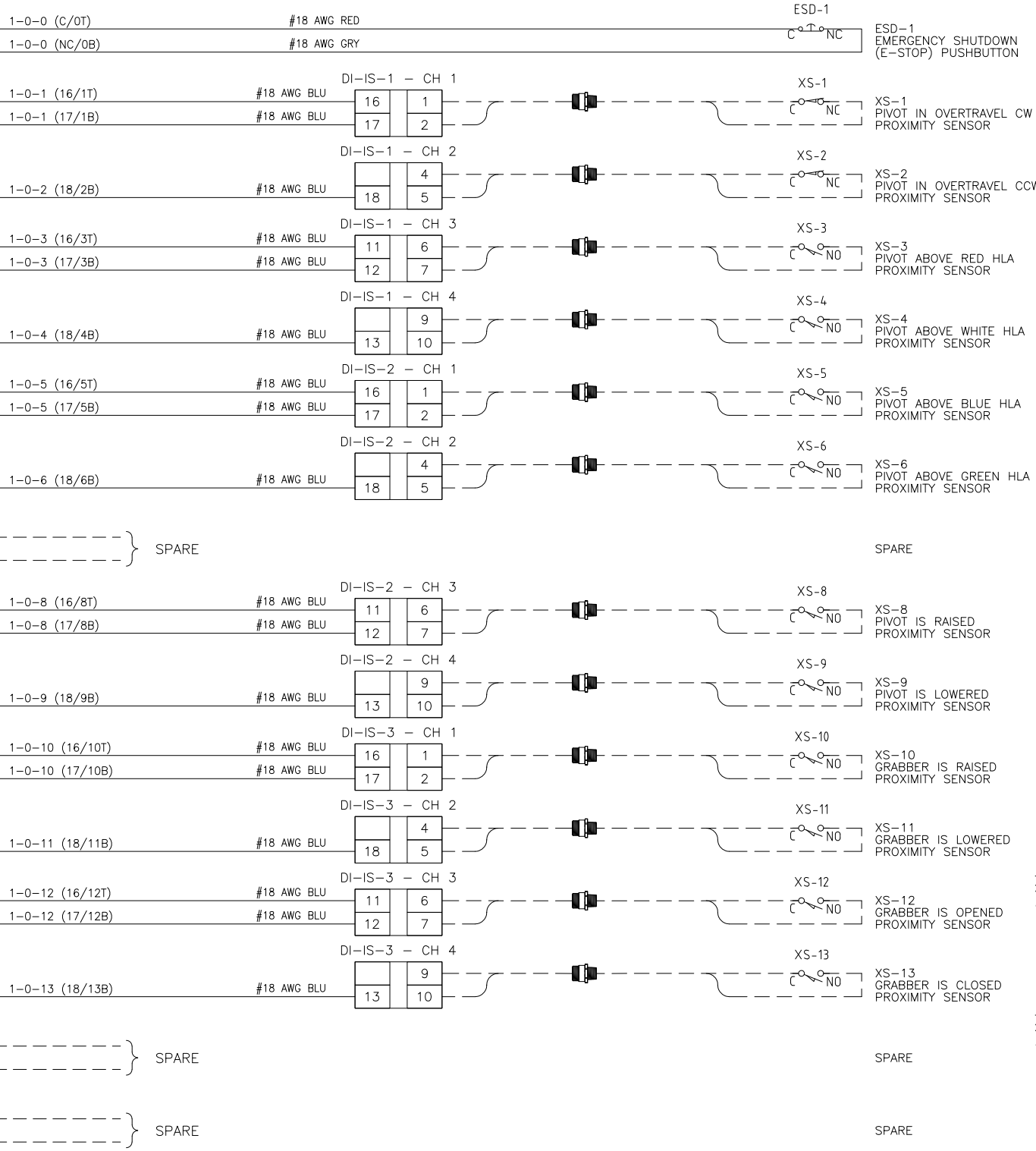
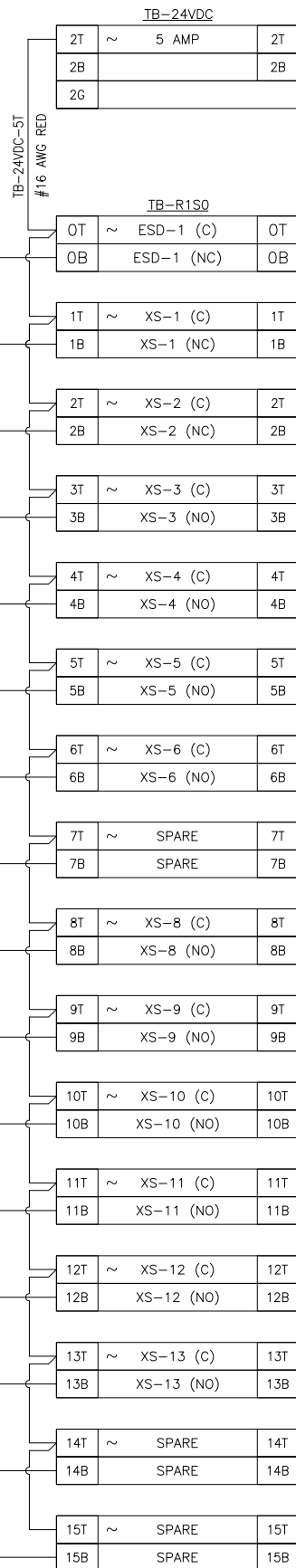


FORUM ENERGY TECHNOLOGIES
AUTOMATIC QUICK CONNECT SYSTEM
PLC CONTROL PANEL
POWER WIRING DIAGRAM

Design By:	Drawn By:	Dwg Date:	Scale:	Job No.	Dwg No.	Sheet: 04
CRB	CRB	5/10/2022	NTS	1806	1806-HLA-CPLC-04-14	Of: 14

AB
1769-EMBEDDED DISCRETE I/O
LOCAL SLOT 0
16 CHANNEL DISCRETE INPUT
24VDC SINK

R150				
	INPUT 0-7	+24VDC	V	
	INPUT 8-15	+24VDC	V	
00	ESD-1			
01	XS-1			
02	XS-2			
03	XS-3			
04	XS-4			
05	XS-5			
06	XS-6			
07	SPARE			
08	XS-8			
09	XS-9			
10	XS-10			
11	XS-11			
12	XS-12			
13	XS-13			
14	SPARE			
15	SPARE			



WIRING LEGEND:
 ——— PANEL CONTRACTOR WIRING
 - - - FIELD CONTRACTOR WIRING

NOTES:
 1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
 2. PANEL FABRICATOR TO INSTALL 0.500mA CERAMIC FAST ACTING FUSES PER DIGITAL INPUT CHANNEL.

Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL



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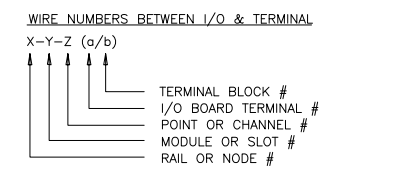
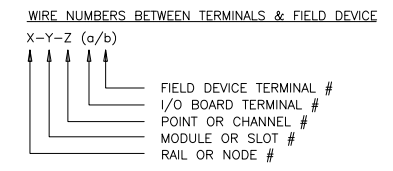
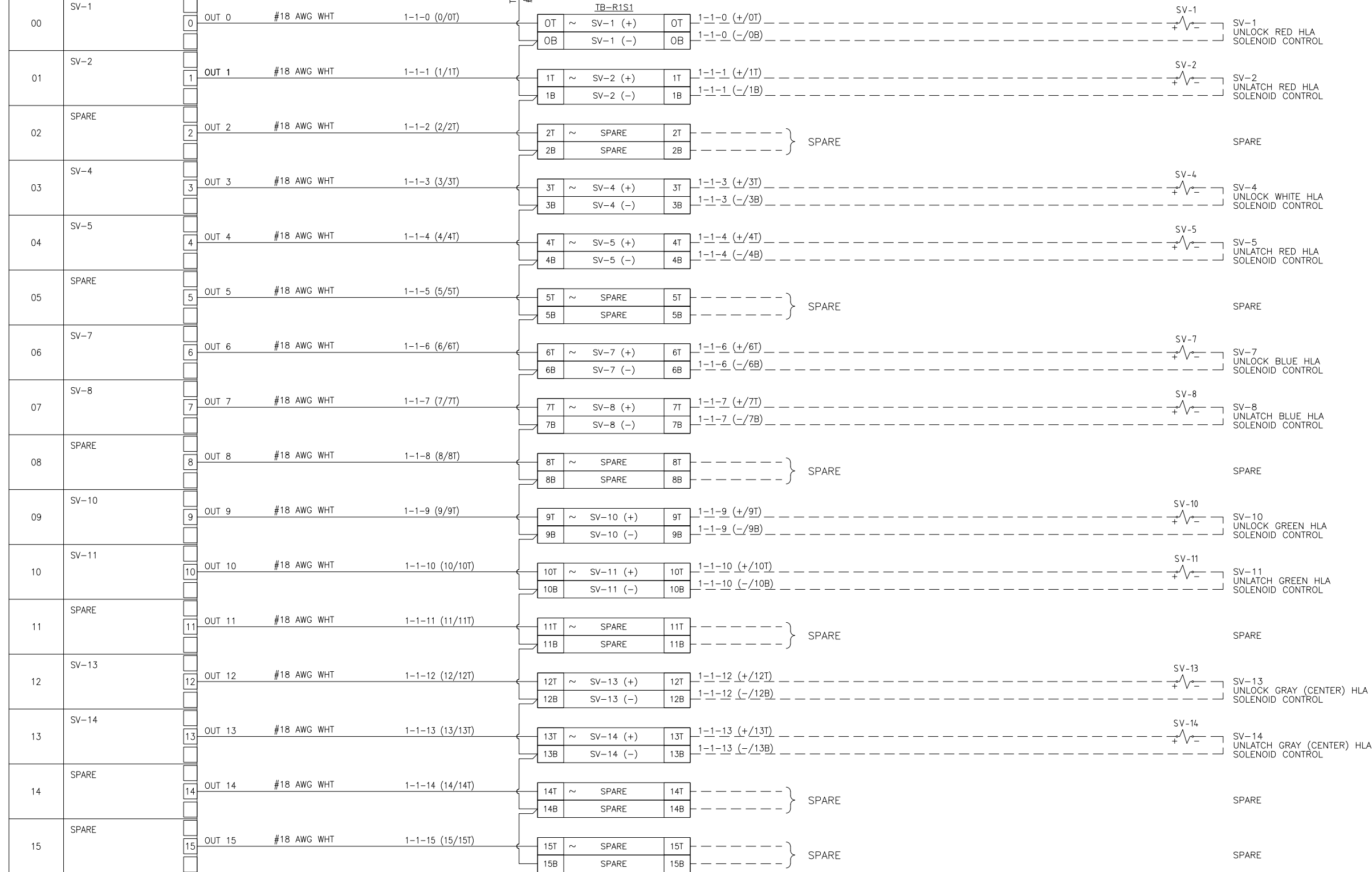
Client:				Title: FORUM ENERGY TECHNOLOGIES AUTOMATIC QUICK CONNECT SYSTEM PLC CONTROL PANEL DIGITAL INPUT WIRING DIAGRA	
Design By:	Drawn By:	Dwg Date:	Scale:	Job No.	Dwg No.
CRB	CRB	5/10/2022	NTS	1806	1806-HLA-CPLC-05-14
				Sheet: 05	Of: 14

AB
1769-EMBEDDED DISCRETE I/O
LOCAL SLOT 1
16 CHANNEL DISCRETE OUTPUT
24VDC SOURCE

R1S1		COM	C
OUTPUT 0-7		COM	C
OUTPUT 8-15		COM	C

TB-24VDC		
3T	~	10 AMP
3B		3B
3G		

TB-R1S1		
0T	~	SV-1 (+)
0B		SV-1 (-)



WIRING LEGEND:
 ——— PANEL CONTRACTOR WIRING
 - - - FIELD CONTRACTOR WIRING

NOTES:
 1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
 2. PANEL FABRICATOR TO INSTALL 1A CERAMIC FAST ACTING FUSES PER DIGITAL OUTPUT CHANNEL.

Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL

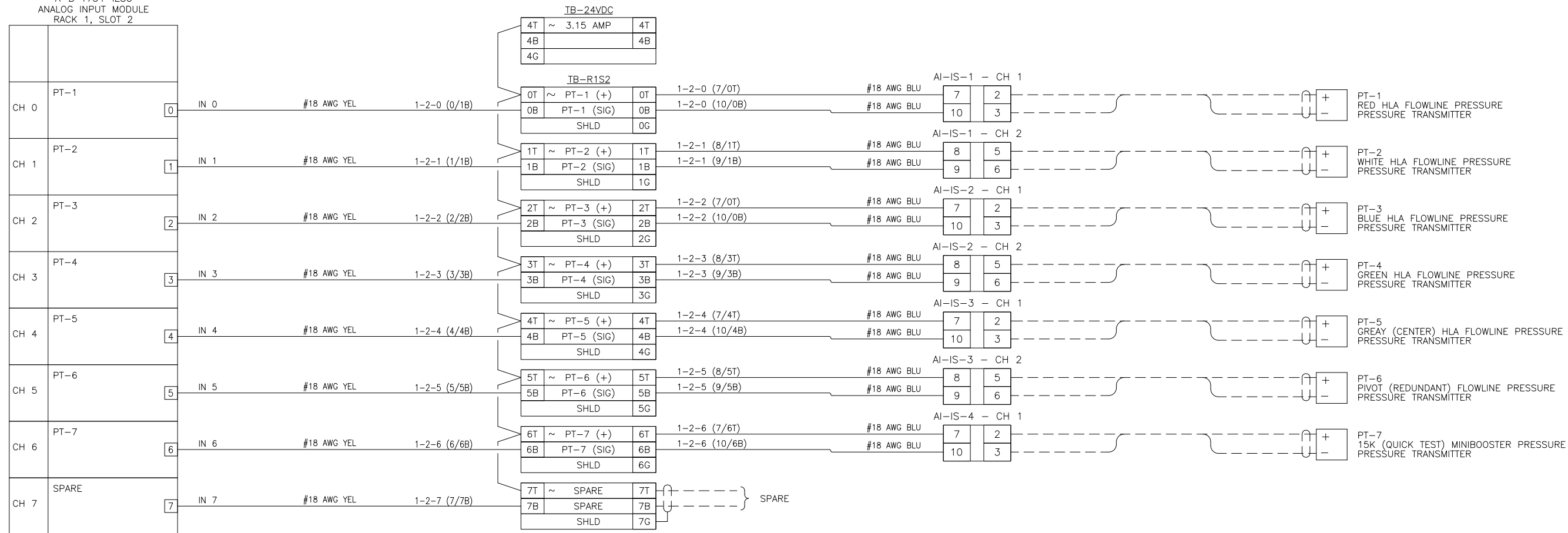


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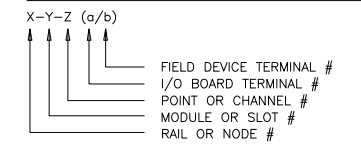


Client: FORUM ENERGY TECHNOLOGIES
 AUTOMATIC QUICK CONNECT SYSTEM
 PLC CONTROL PANEL
 BACKPLATE LAYOUT DETAIL & BOM

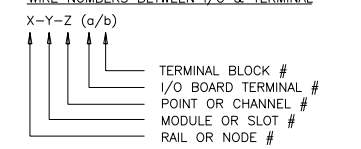
Design By: CRB	Drawn By: CRB	Dwg Date: 5/10/2022	Scale: NTS	Job No. 1806	Dwg No. 1806-HLA-CPLC-06-14	Sheet: 06 Of: 14
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WIRE NUMBERS BETWEEN TERMINALS & FIELD DEVICE



WIRE NUMBERS BETWEEN I/O & TERMINAL



WIRING LEGEND:

- PANEL CONTRACTOR WIRING
- - - FIELD CONTRACTOR WIRING

NOTES:
 1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
 2. PANEL FABRICATOR TO INSTALL 0.125mA CERAMIC FAST ACTING FUSES PER ANALOG INPUT CHANNEL.

Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL



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Client: **FET**

Design By: CRB
 Drawn By: CRB
 Dwg Date: 5/10/2022
 Scale: NTS

Title: FORUM ENERGY TECHNOLOGIES
 AUTOMATIC QUICK CONNECT SYSTEM
 PLC CONTROL PANEL
 BACKPLATE LAYOUT DETAIL & BOM

Job No. 1806
 Dwg No. 1806-HLA-CPLC-07-14
 Sheet: 07 of 14

A-B 1734-SSI
 SYNC. SERIAL INTERFACE MOD.
 RACK 1, SLOT 3

D+	DATA +	0
D-	DATA -	1
V+	SSI SENSOR +	2
V-	SSI SENSOR -	3
SH	SHIELD	4
I1	DIGITAL SOURCING INPUT 1	5
C+	CLOCK+	6
C-	CLOCK -	7

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Rev.	By:	Approved:	Date:	Description:

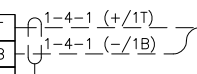


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Client:				Title: FORUM ENERGY TECHNOLOGIES AUTOMATIC QUICK CONNECT SYSTEM PLC CONTROL PANEL SERIAL INTERFACE WIRING DIAGRAM		
Design By:	Drawn By:	Dwg Date:	Scale:	Job No.	Dwg No.	Sheet: 08
CRB	CRB	5/10/2022	NTS	1806	1806-HLA-CPLC-08-14	Of: 14

CH 0	SPARE	0	OUT 0	#18 AWG ORG	1-4-0 (0/0T)
CH 1	FCV-1	1	OUT 1	#18 AWG ORG	1-4-1 (1/1T)
CH 2	SPARE	2	OUT 2	#18 AWG ORG	1-4-2 (2/2T)
CH 3	SPARE	3	OUT 3	#18 AWG ORG	1-4-3 (3/3T)
C	COM	4	COM	#18 AWG BLK	1-4-C (4/0B)
C	COM	5	COM	#18 AWG BLK	1-4-C (5/2B)
V	+24V	6			
V	+24V	7			

TB-R1S4			
0T	~	SPARE	0T
0B		SPARE	0B
		SHLD	0G
1T	~	FCV-1 (SIG)	1T
1B		FCV-1 (-)	1B
		SHLD	1G
2T	~	SPARE	2T
2B		SPARE	2B
		SHLD	2G
3T	~	SPARE	3T
3B		SPARE	3B
		SHLD	3G

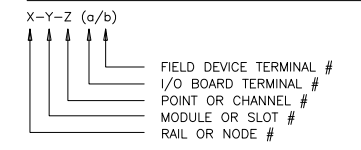


SPARE

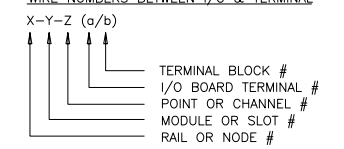
SPARE

SPARE

WIRE NUMBERS BETWEEN TERMINALS & FIELD DEVICE



WIRE NUMBERS BETWEEN I/O & TERMINAL



WIRING LEGEND:

- PANEL CONTRACTOR WIRING
- - - - - FIELD CONTRACTOR WIRING

NOTES:
1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
2. PANEL FABRICATOR TO INSTALL 0.125mA CERAMIC FAST ACTING FUSES PER ANALOG OUTPUT CHANNEL.

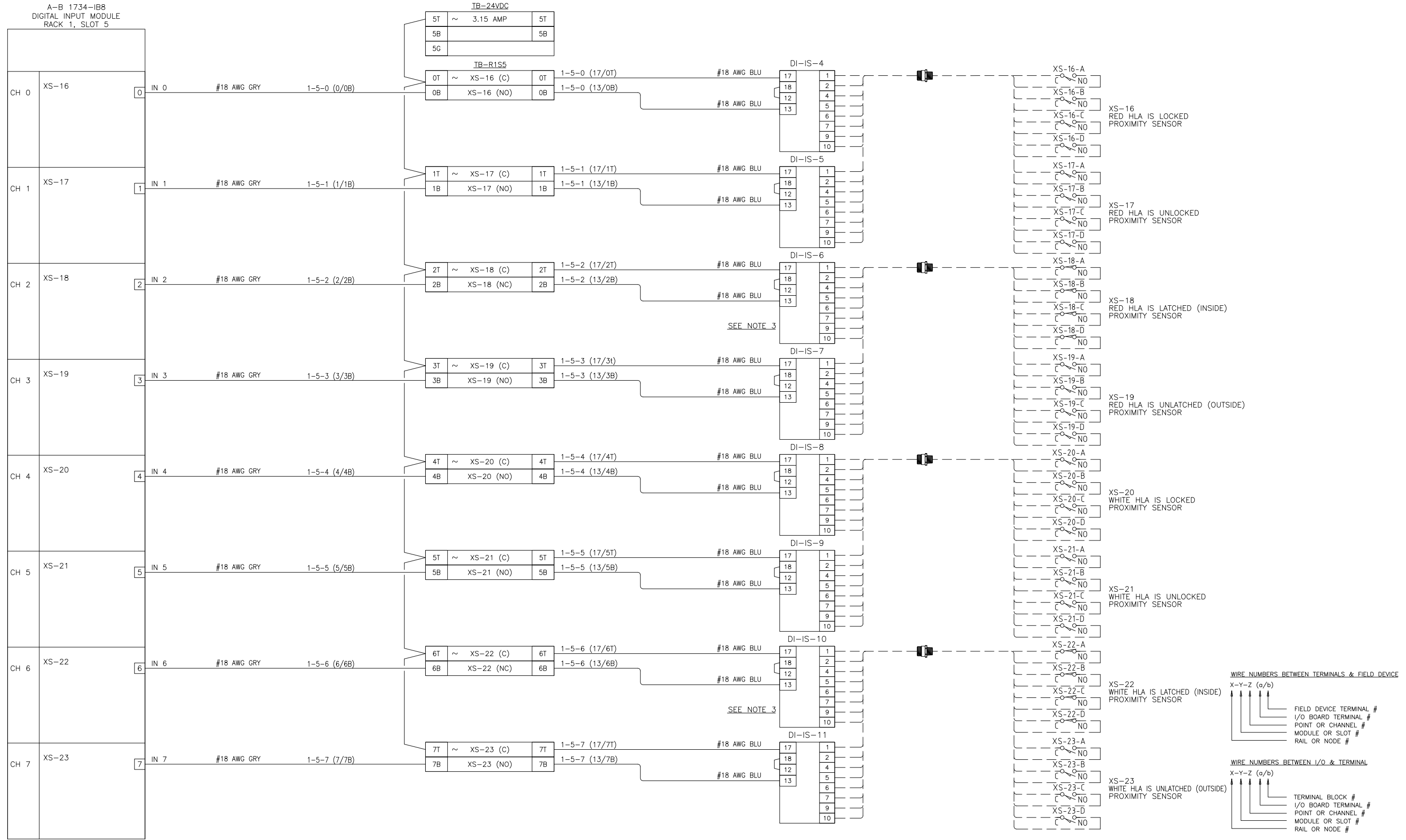
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Client: **FET**
Design By: CRB
Drawn By: CRB
Dwg Date: 5/10/2022
Scale: NTS

Title: FORUM ENERGY TECHNOLOGIES
AUTOMATIC QUICK CONNECT SYSTEM
PLC CONTROL PANEL
ANALOG OUTPUT WIRING DIAGRAM
Job No. 1806
Dwg No. 1806-HLA-CPLC-09-14
Sheet: 09 Of: 14



XS-16
RED HLA IS LOCKED
PROXIMITY SENSOR

XS-17
RED HLA IS UNLOCKED
PROXIMITY SENSOR

XS-18
RED HLA IS LATCHED (INSIDE)
PROXIMITY SENSOR

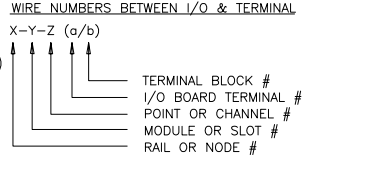
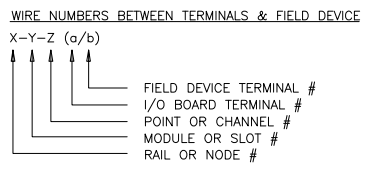
XS-19
RED HLA IS UNLATCHED (OUTSIDE)
PROXIMITY SENSOR

XS-20
WHITE HLA IS LOCKED
PROXIMITY SENSOR

XS-21
WHITE HLA IS UNLOCKED
PROXIMITY SENSOR

XS-22
WHITE HLA IS LATCHED (INSIDE)
PROXIMITY SENSOR

XS-23
WHITE HLA IS UNLATCHED (OUTSIDE)
PROXIMITY SENSOR



WIRING LEGEND:

- PANEL CONTRACTOR WIRING
- - - FIELD CONTRACTOR WIRING

NOTES:
1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
2. PANEL FABRICATOR TO INSTALL 0.500mA CERAMIC FAST ACTING FUSES PER DISCRETE INPUT CHANNEL.
3. DIP SWITCHES ON BARRIER TO BE SET TO NORMALLY CLOSED.

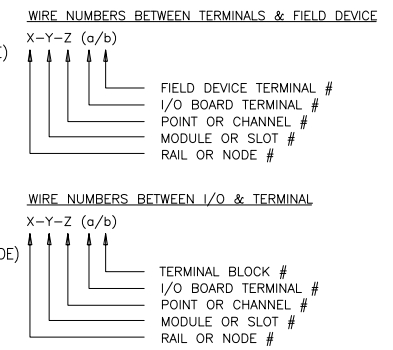
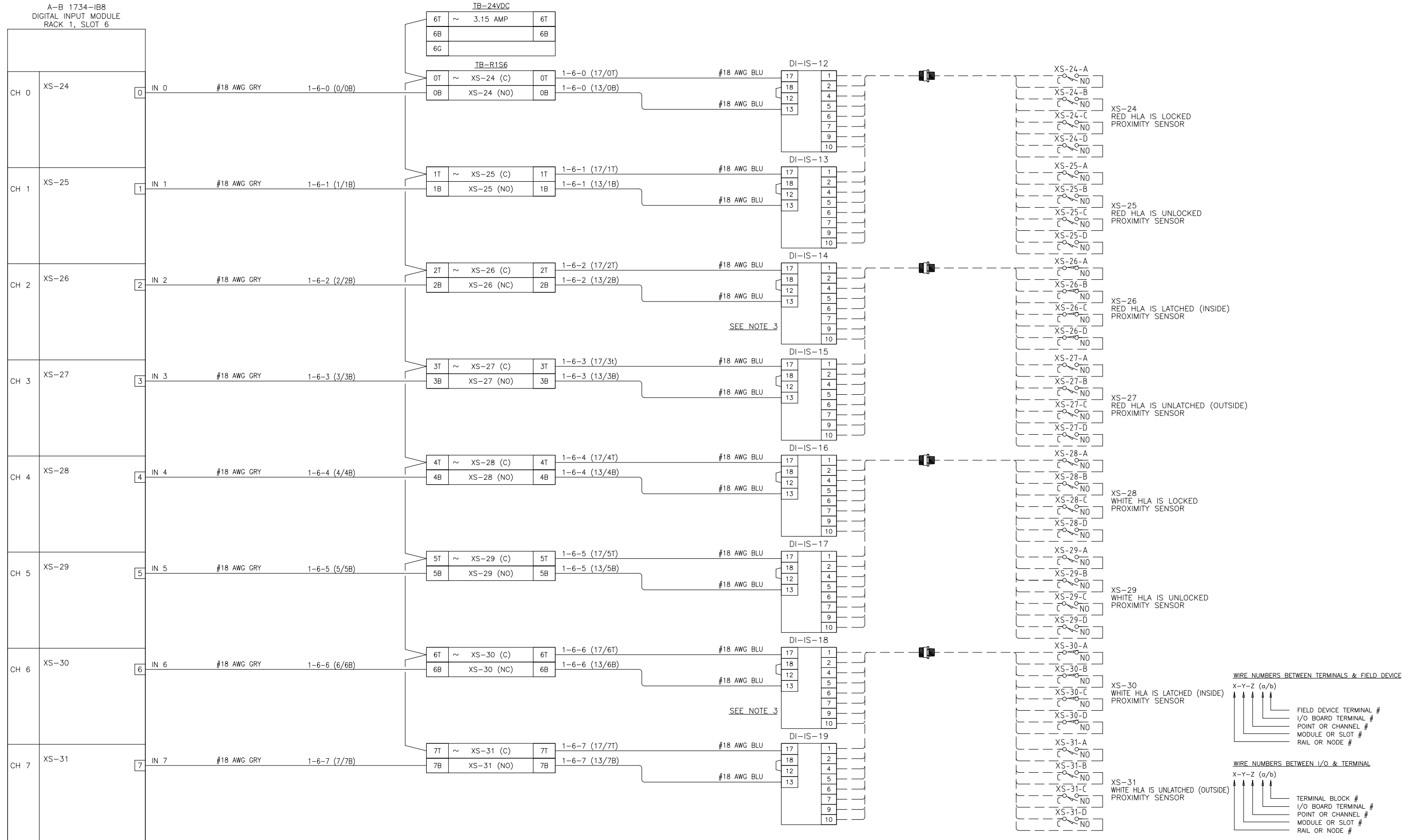
Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL



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Client:	FET		
Design By:	Drawn By:	Dwg Date:	Scale:
CRB	CRB	5/10/2022	NTS

Title: FORUM ENERGY TECHNOLOGIES AUTOMATIC QUICK CONNECT SYSTEM PLC CONTROL PANEL DIGITAL INPUTS WIRING DIAGRAM			
Job No.	Dwg No.	Sheet: 10	Of: 14
1806	1806-HLA-CPLC-10-14		



WIRING LEGEND:

- PANEL CONTRACTOR WIRING
- - - - FIELD CONTRACTOR WIRING

NOTES:
 1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
 2. PANEL FABRICATOR TO INSTALL 0.500mA CERAMIC FAST ACTING FUSES PER DISCRETE INPUT CHANNEL.
 3. DIP SWITCHES ON BARRIERS TO BE SET TO NORMALLY CLOSED.

Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL

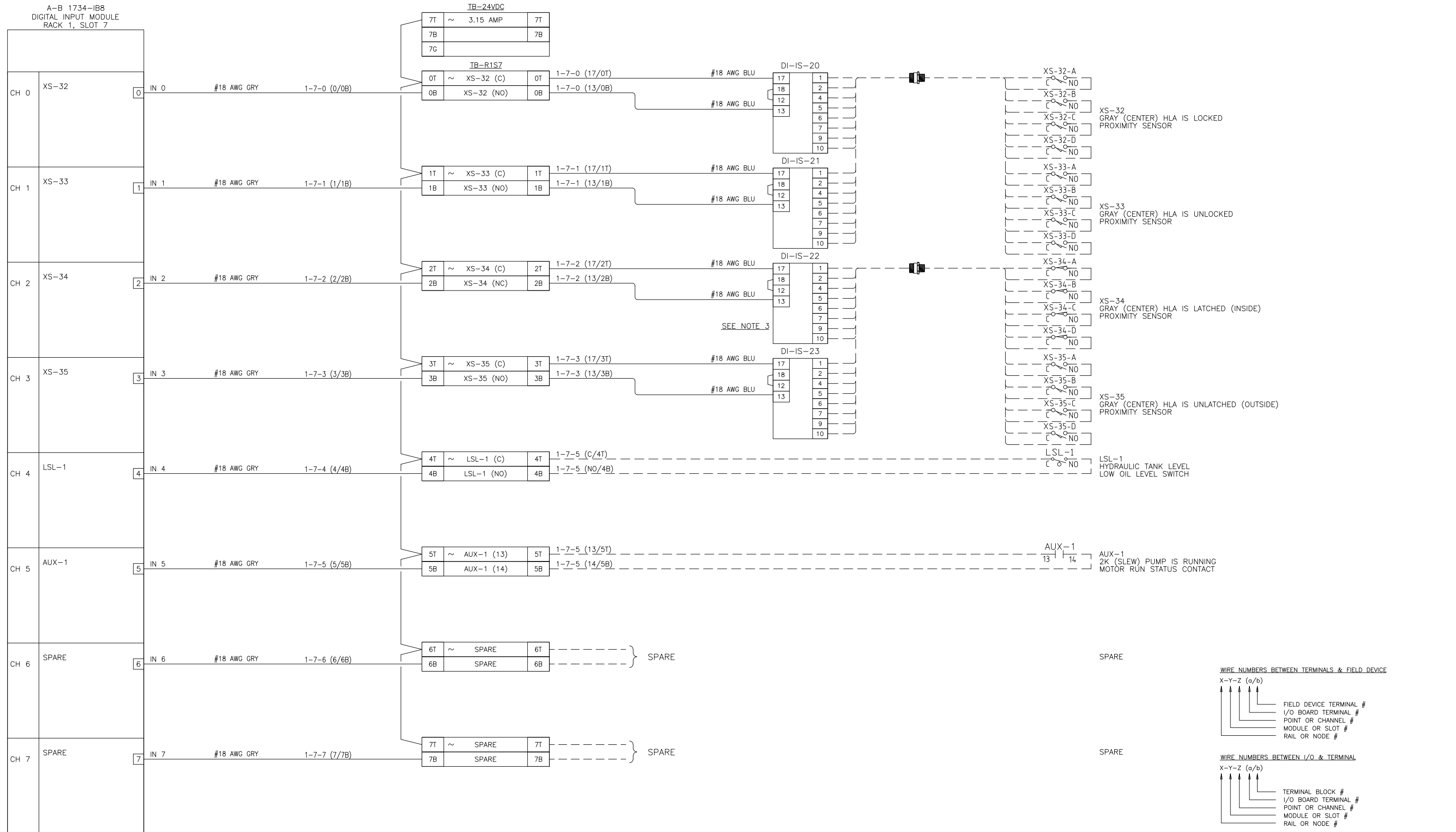
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Client:

Design By: CRB Drawn By: CRB Dwg Date: 5/10/2022 Scale: NTS

Title: FORUM ENERGY TECHNOLOGIES
AUTOMATIC QUICK CONNECT SYSTEM
PLC CONTROL PANEL
DIGITAL INPUTS WIRING DIAGRAM

Job No. 1806 Dwg No. 1806-HLA-CPLC-11-14 Sheet: 11 Of: 14



XS-32
GRAY (CENTER) HLA IS LOCKED
PROXIMITY SENSOR

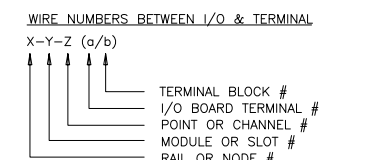
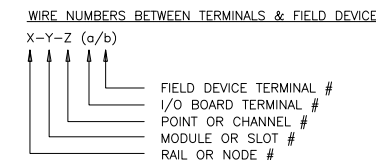
XS-33
GRAY (CENTER) HLA IS UNLOCKED
PROXIMITY SENSOR

XS-34
GRAY (CENTER) HLA IS LATCHED (INSIDE)
PROXIMITY SENSOR

XS-35
GRAY (CENTER) HLA IS UNLATCHED (OUTSIDE)
PROXIMITY SENSOR

LSL-1
HYDRAULIC TANK LEVEL
LOW OIL LEVEL SWITCH

AUX-1
2K (SLEW) PUMP IS RUNNING
MOTOR RUN STATUS CONTACT



WIRING LEGEND:

- PANEL CONTRACTOR WIRING
- - - FIELD CONTRACTOR WIRING

NOTES:
1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
2. PANEL FABRICATOR TO INSTALL 0.500mA CERAMIC FAST ACTING FUSES PER DISCRETE INPUT CHANNEL.
3. DIP SWITCHES ON BARRIERS TO BE SET TO NORMALLY CLOSED.

Rev.	By:	Approved:	Date:	Description:
A	CRB		06/17/2022	ISSUED FOR APPROVAL



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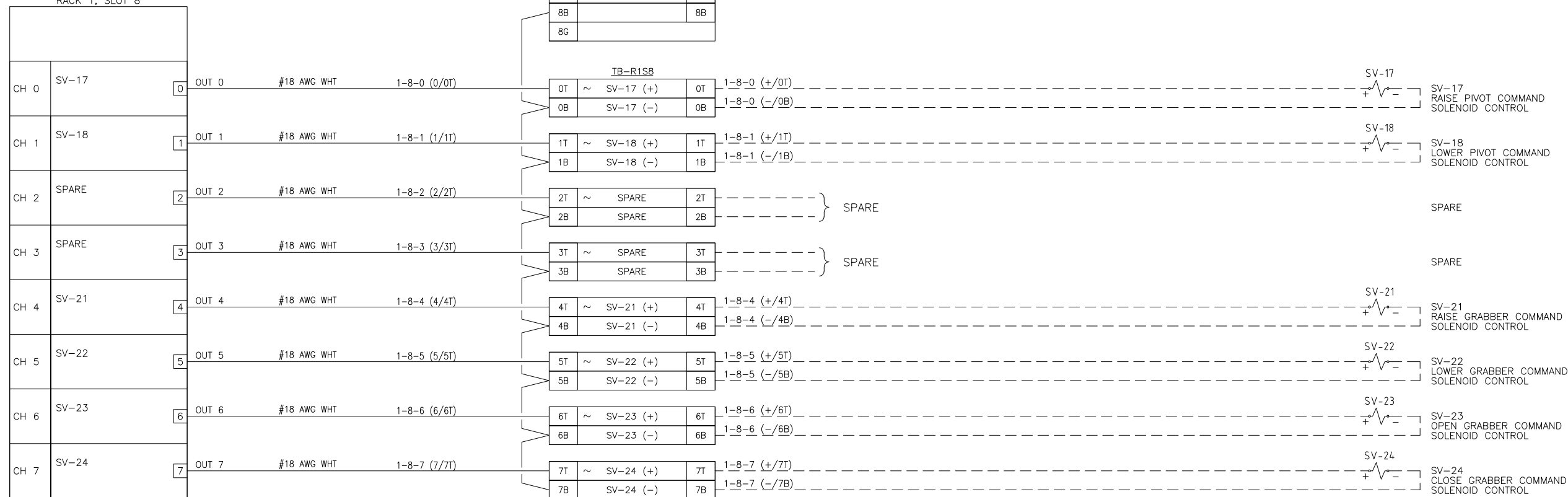
Client: **FET**

Design By: CRB
Drawn By: CRB
Dwg Date: 5/10/2022
Scale: NTS

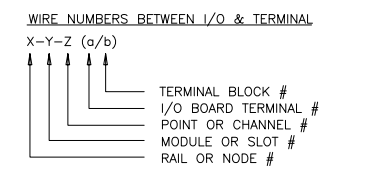
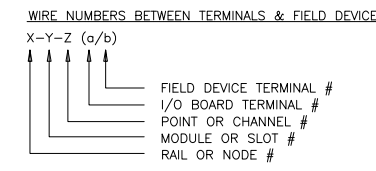
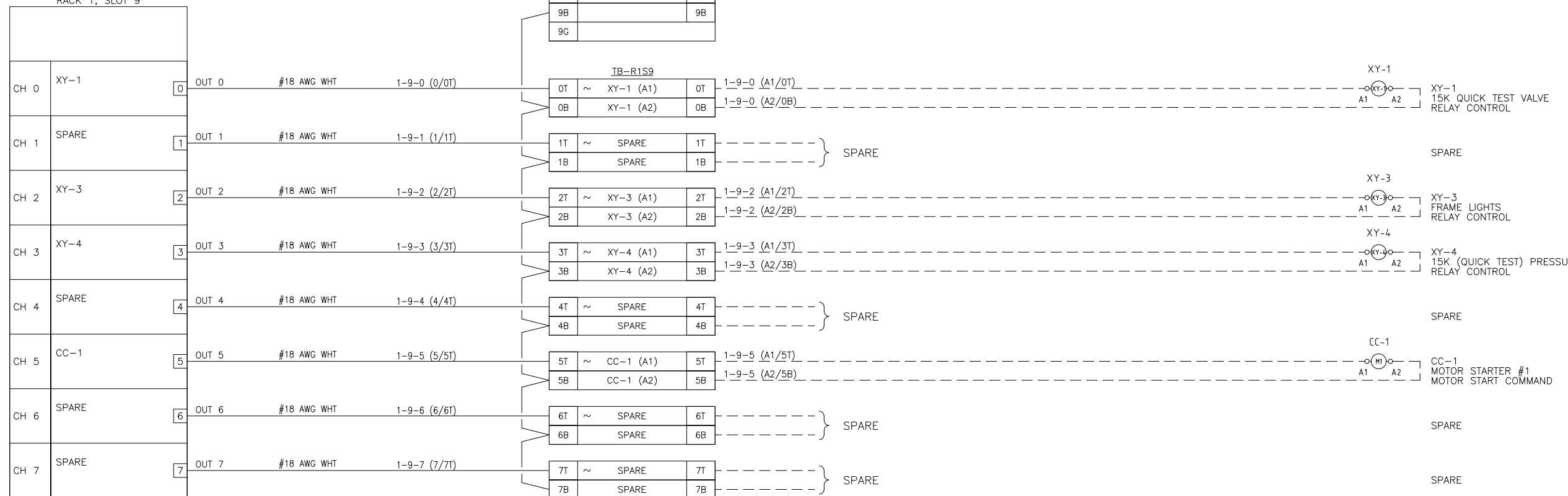
Title: FORUM ENERGY TECHNOLOGIES
AUTOMATIC QUICK CONNECT SYSTEM
PLC CONTROL PANEL
DIGITAL INPUT WIRING DIAGRAM

Job No. 1806
Dwg No. 1806-HLA-CPLC-12-14
Sheet: 12 Of: 14

A-B 1734-OB8
DIGITAL OUTPUT MODULE
RACK 1, SLOT 8



A-B 1734-OB8
DIGITAL OUTPUT MODULE
RACK 1, SLOT 9



WIRING LEGEND:

- PANEL CONTRACTOR WIRING
- - - FIELD CONTRACTOR WIRING

NOTES:
1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
2. PANEL FABRICATOR TO INSTALL 1A CERAMIC FAST ACTING FUSES PER DISCRETE OUTPUT CHANNEL.

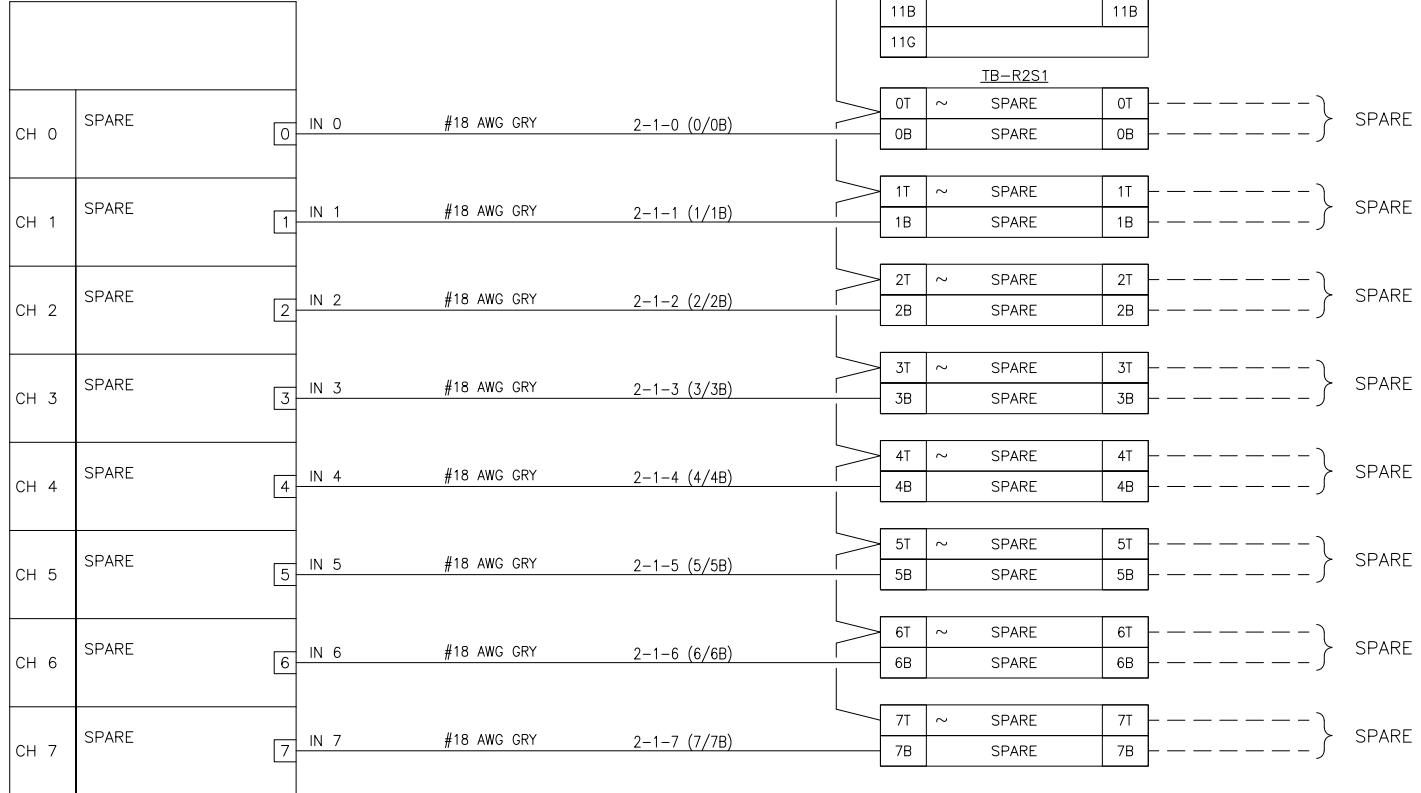
Rev.	By:	Approved:	Date:	Description:
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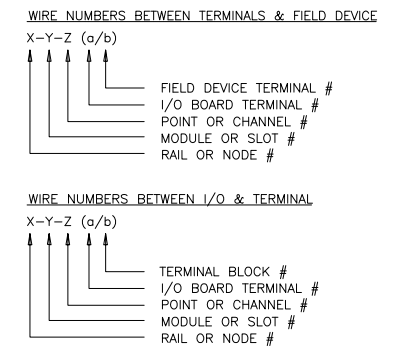
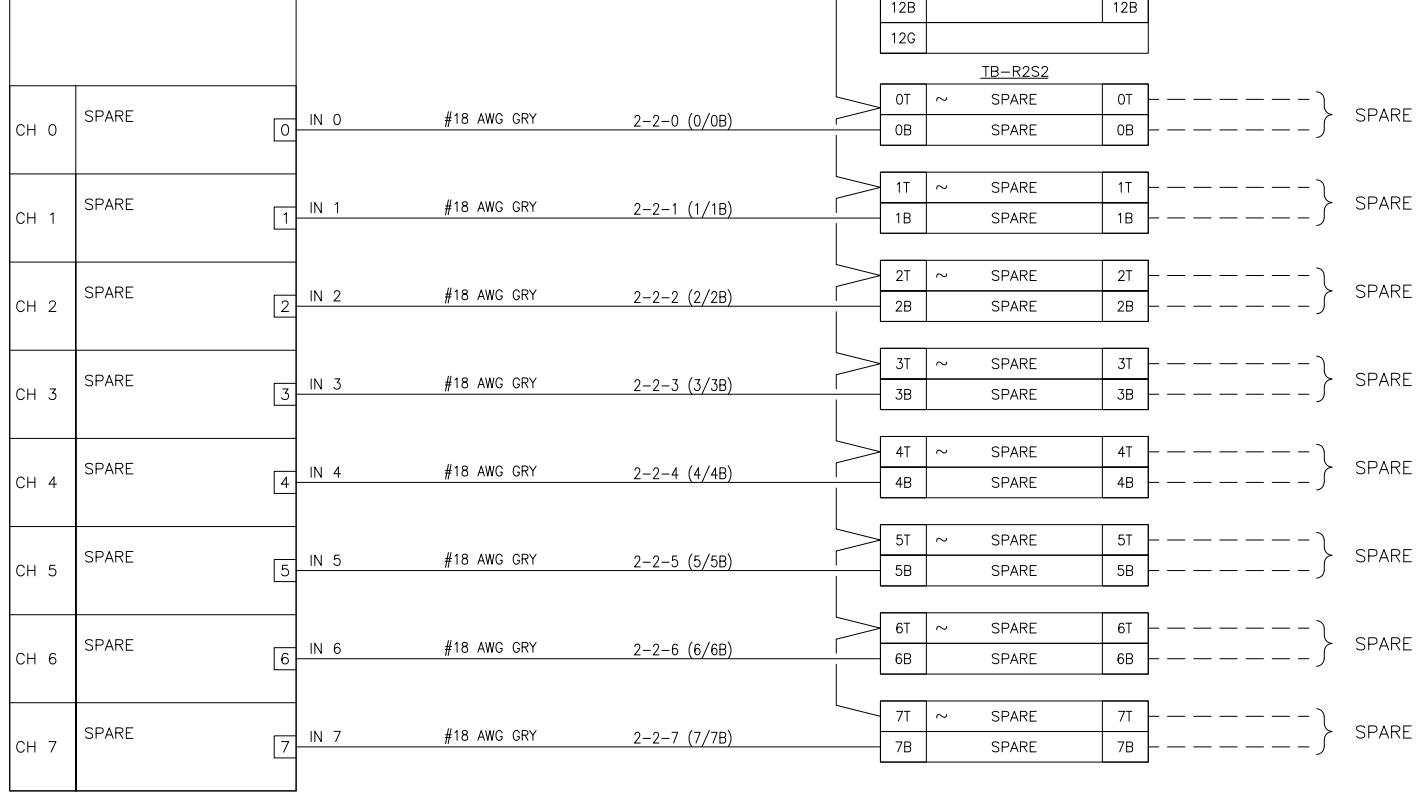
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Client:		Title: FORUM ENERGY TECHNOLOGIES AUTOMATIC QUICK CONNECT SYSTEM PLC CONTROL PANEL DIGITAL OUTPUT WIRING DIAGRAM	
Design By:	Drawn By:	Dwg Date:	Scale:
CRB	CRB	5/10/2022	NTS
Job No.	Dwg No.	Sheet: 13	
1806	1806-HLA-CPLC-13-14	Of: 14	

A-B 1734-IB8
DIGITAL INPUT MODULE
RACK 2, SLOT 1



A-B 1734-IB8
DIGITAL INPUT MODULE
RACK 2, SLOT 2



WIRING LEGEND:
 ———— PANEL CONTRACTOR WIRING
 - - - - FIELD CONTRACTOR WIRING

NOTES:
 1. FACTORY JUMPER BARS TO BE USED INSTEAD OF WIRE JUMPERS WHERE PRACTICAL.
 2. PANEL FABRICATOR TO INSTALL 0.500mA CERAMIC FAST ACTING FUSES PER DISCRETE INPUT CHANNEL.

Rev.	By:	Approved:	Date:	Description:
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Client: **FET**
 Design By: CRB
 Drawn By: CRB
 Dwg Date: 5/10/2022
 Scale: NTS

Title: **FORUM ENERGY TECHNOLOGIES
 AUTOMATIC QUICK CONNECT SYSTEM
 PLC CONTROL PANEL
 DIGITAL INPUT WIRING DIAGRAM**
 Job No. 1806
 Dwg No. 1806-HLA-CPLC-14-14
 Sheet: 14 Of: 14