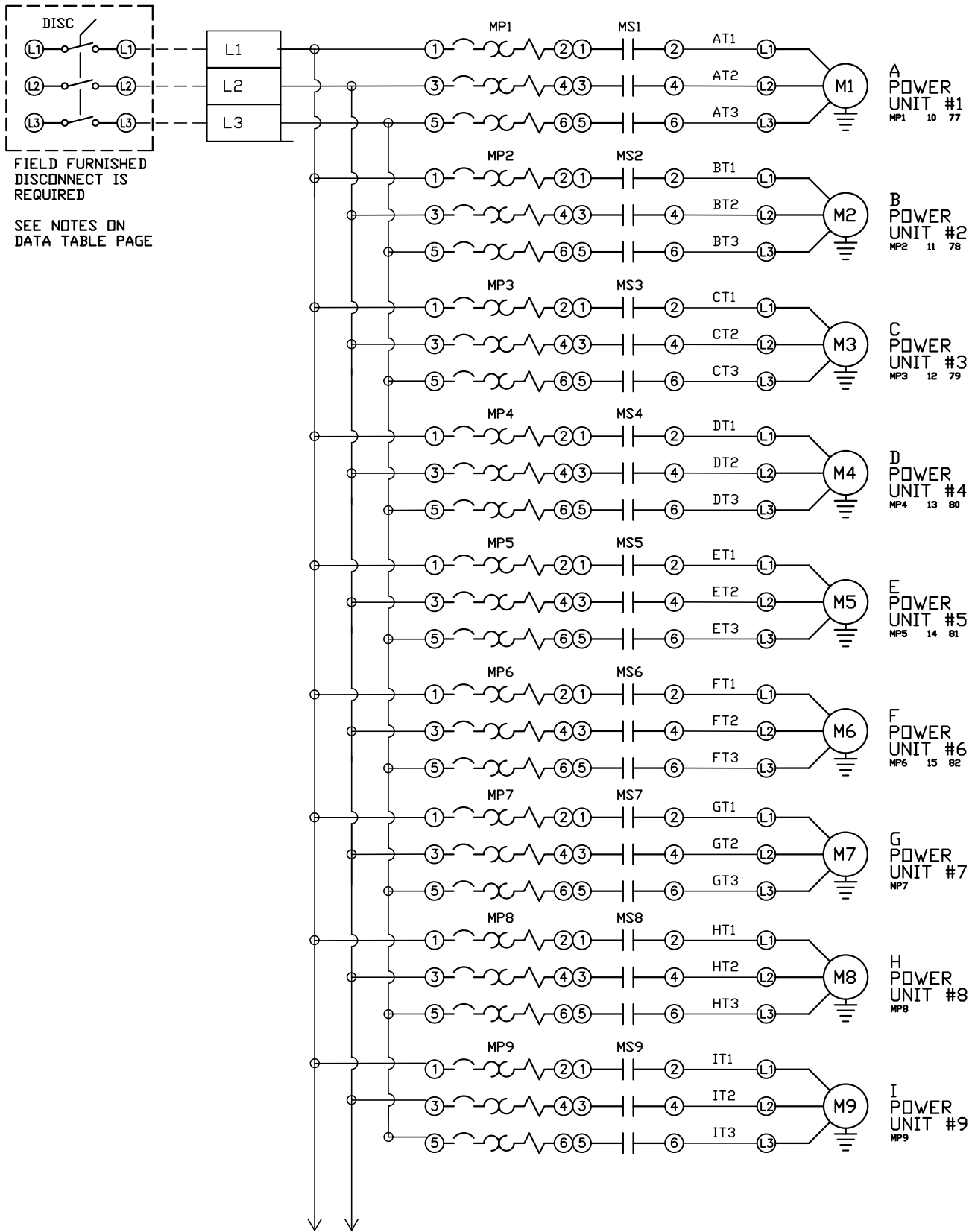




REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK

OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSRVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE

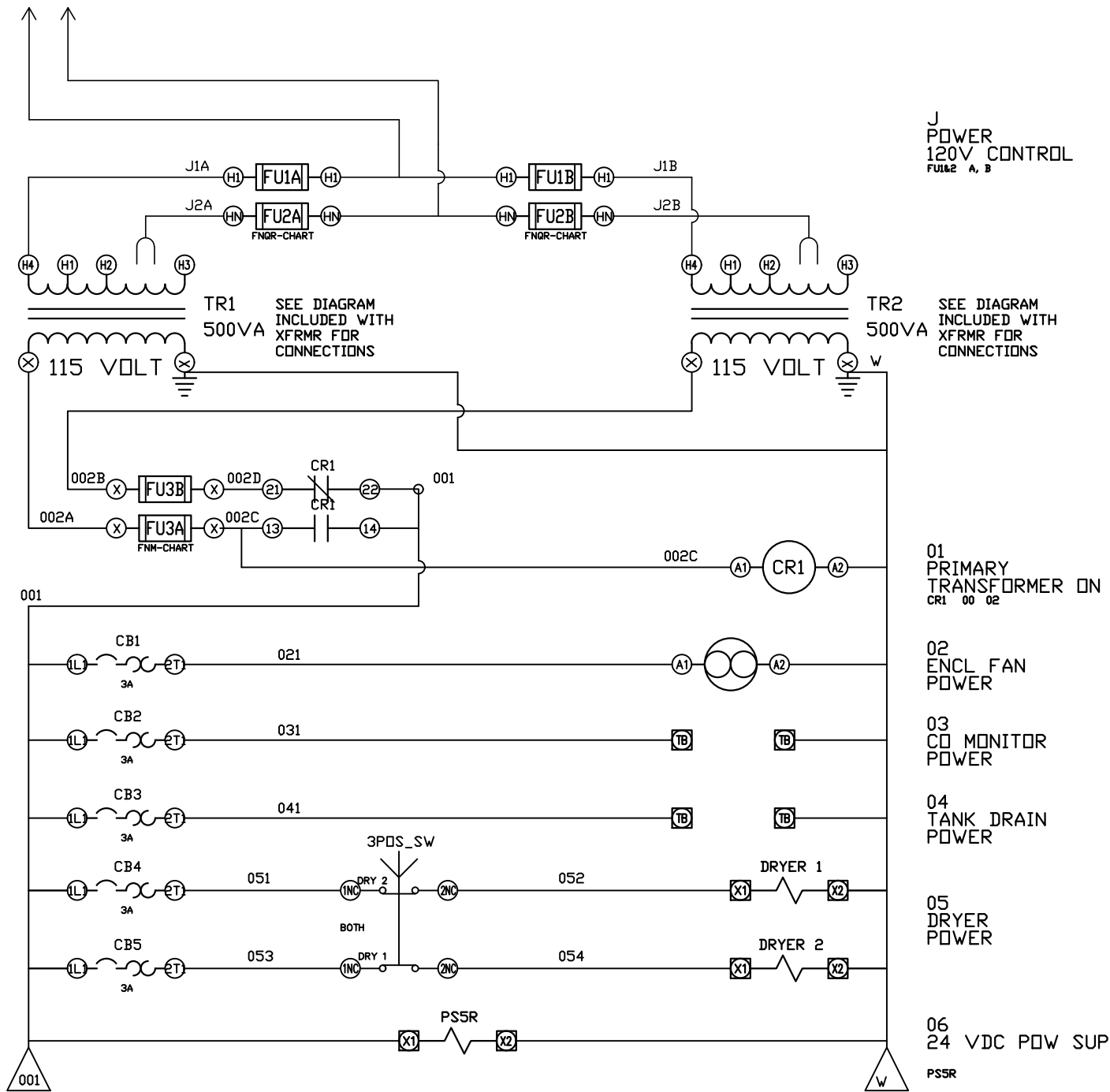
NONOPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-A916

SHEET	SIZE
W-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK



OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSRVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

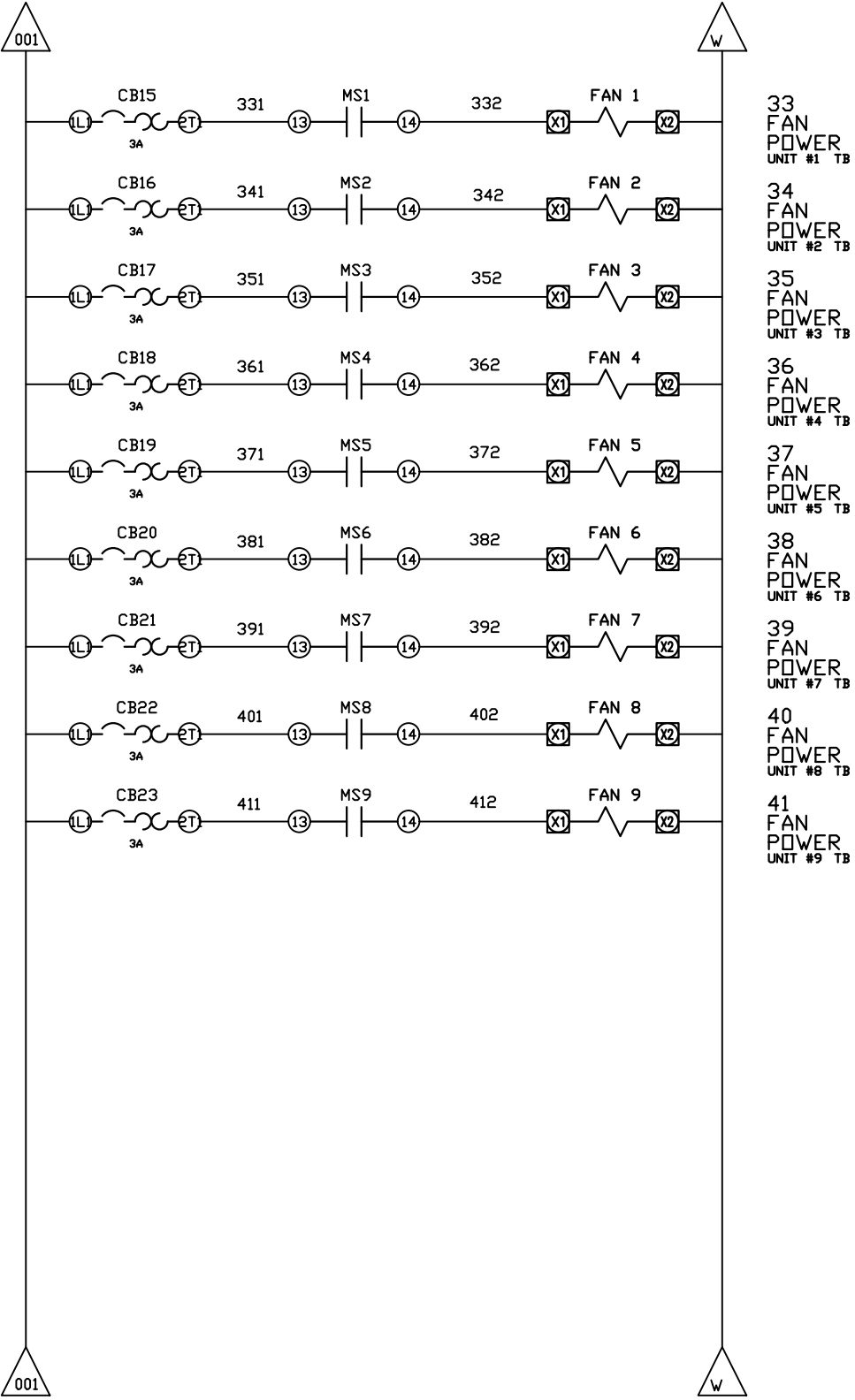
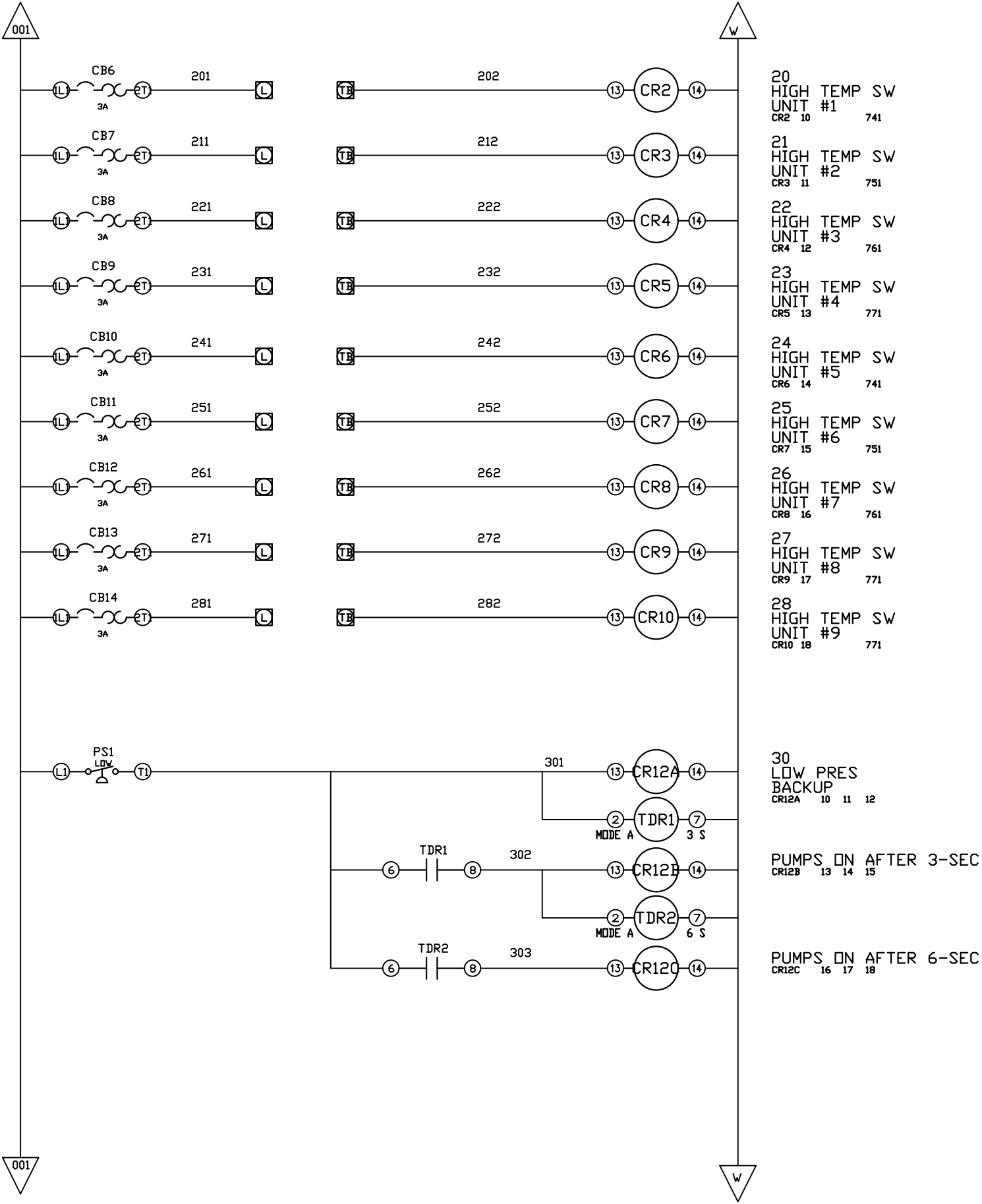
PANEL TYPE
NONOPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE WIRING

DWG. NO.
PXMI-A916

SHEET	SIZE
W-2	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK



OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSRVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE

NONOPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE WIRING

DWG. NO.

PXMI-A916

SHEET

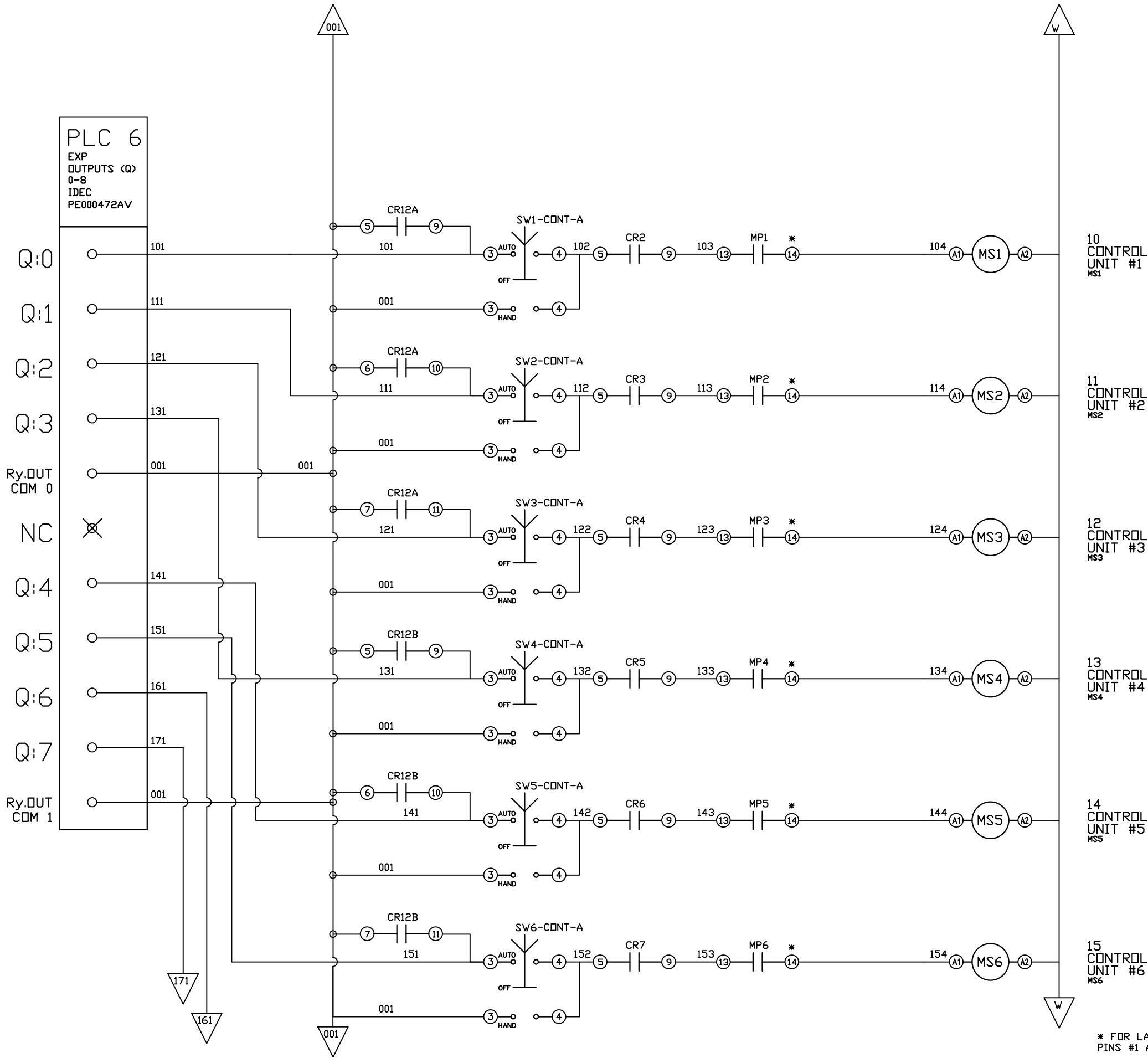
W-3

SIZE

B

PXMI-A916 B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK



* FOR LAYOUT-B MOTOR PROTECTORS USE PINS #1 AND #4 ON AUX CONTACTS

OPTIONAL: SINGLE CYLINDER AND SCROLL PUMPS
DOUBLE-CYLINDER PUMPS
BACNET, WEBSRVR, TRIPLE-CYLINDER PUMPS

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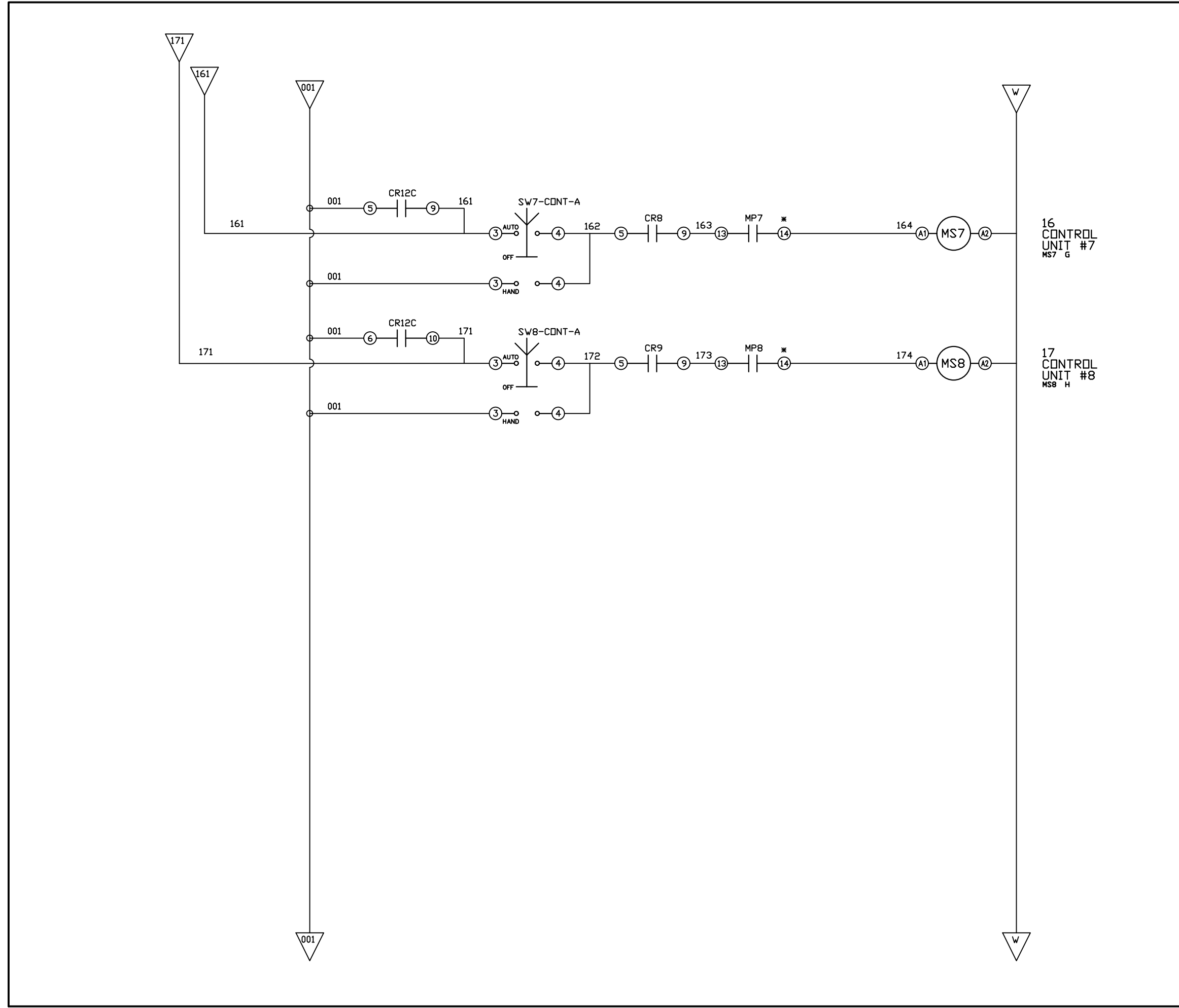
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE
NONOPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE WIRING

DWG. NO.
PXMI-A916

SHEET	SIZE
W-4	B

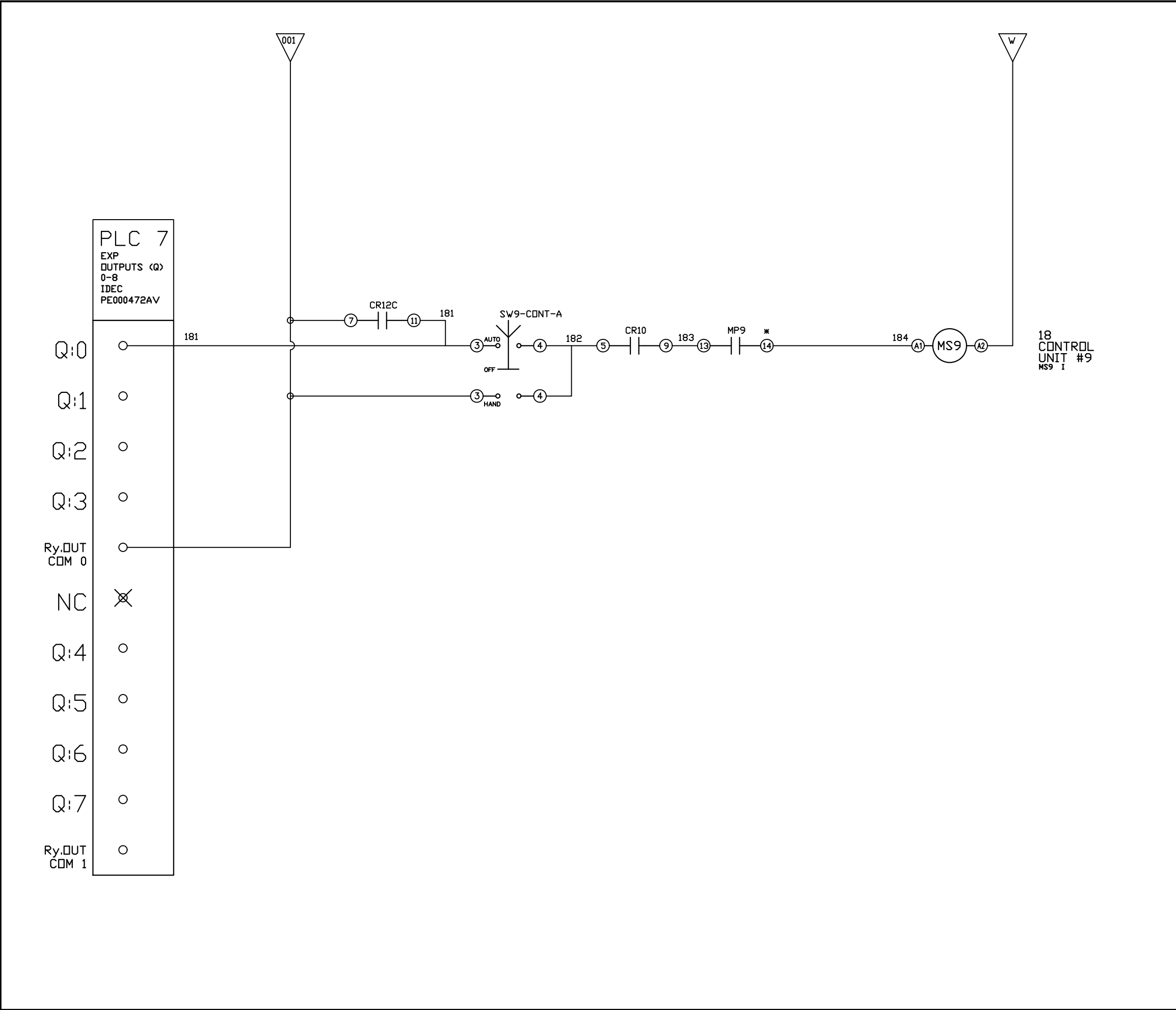


REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK

OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSRVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13
PANEL TYPE		
NONOPLX MEDICAL COMP HMI, BACNET, WEBSRVR, NFPA		
DWG. TYPE WIRING		
DWG. NO.		
PXMI-A916		
SHEET		SIZE
W-5		B
PXMI-A916 B1		



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
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F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE

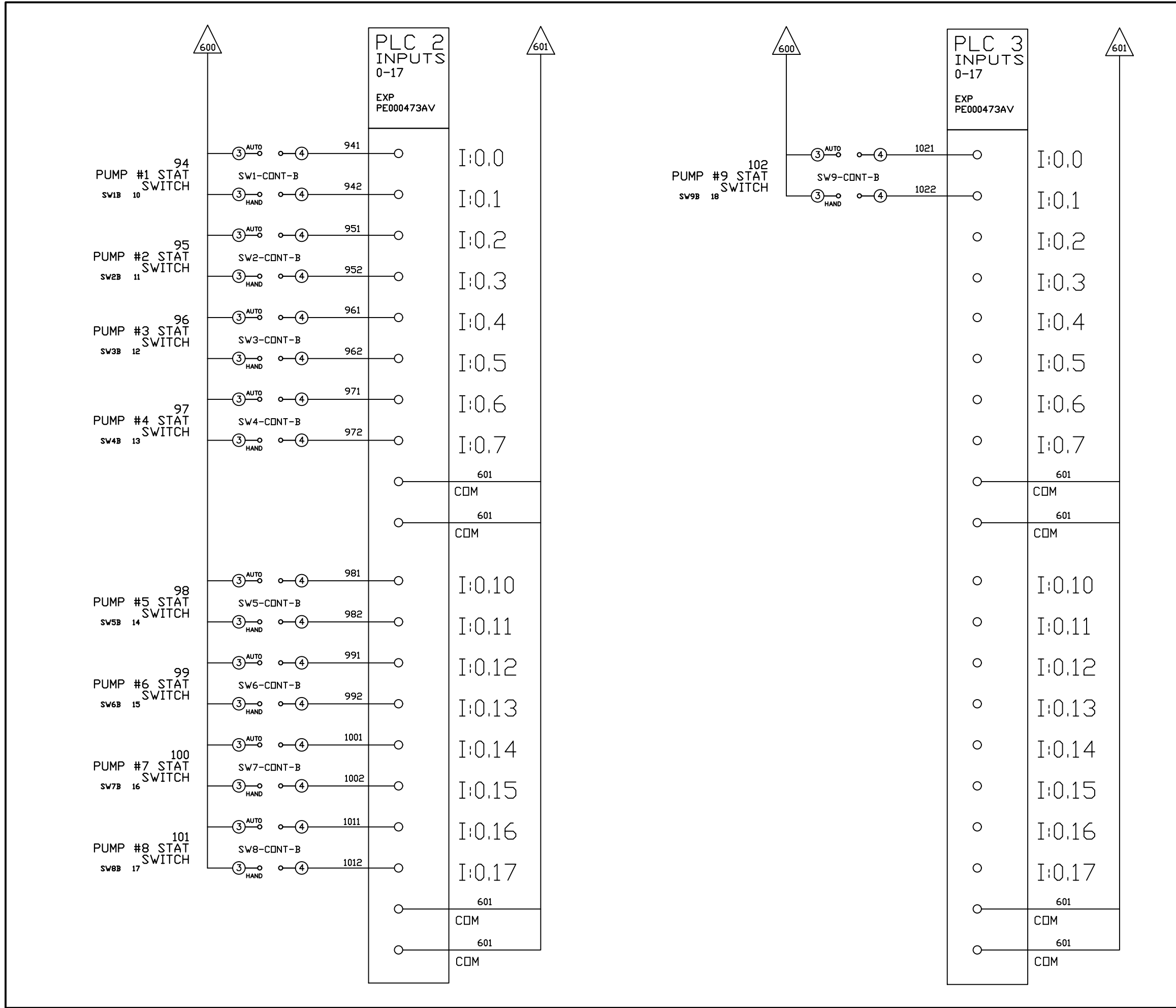
NONPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE WIRING

DWG. NO.

PXMI-A916

SHEET	SIZE
W-6	B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK

OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	☐

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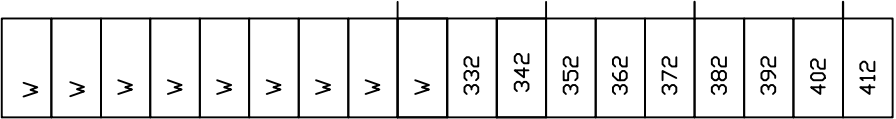
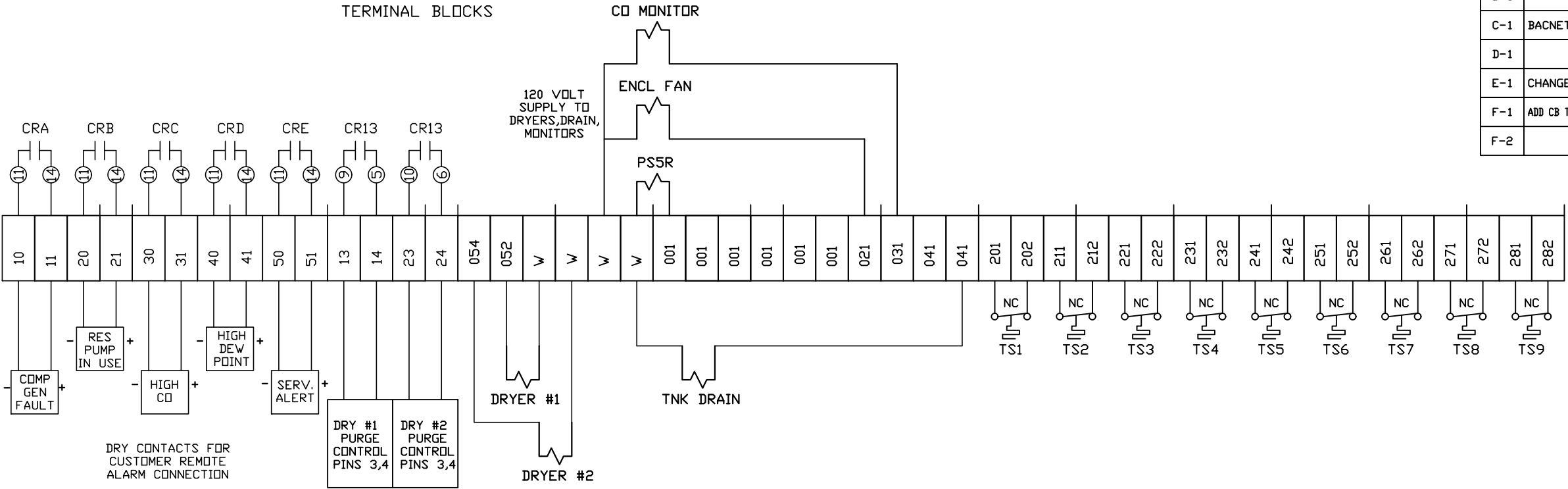
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE
NONOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA

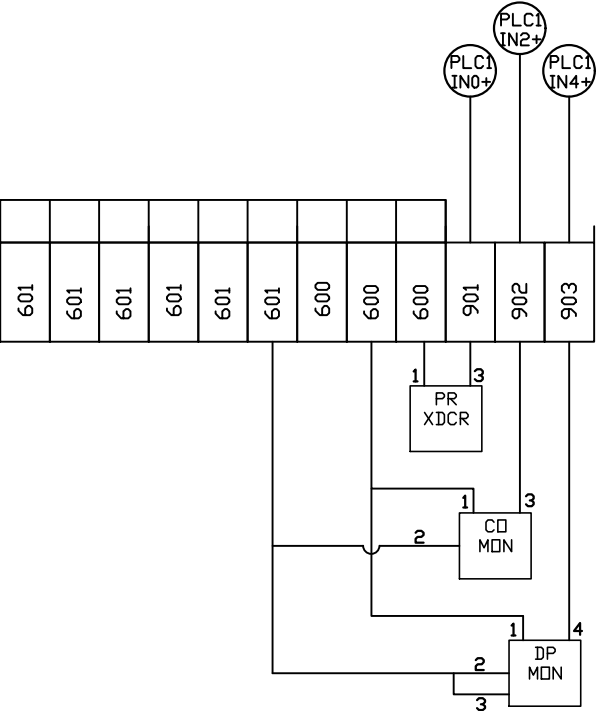
DWG. TYPE
WIRING

DWG. NO.
PXMI-A916

SHEET W-8	SIZE B
--------------	-----------



FAN WIRING
SEE RUNGS 33-41 FOR DETAILS



FIELD WIRING NOTES:

- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY.
- FIELD WIRING INDICATED BY -----, WIRE TO BE COPPER RATED AT 75° C.
- ALL ALARM DRY CONTACTS ARE CLOSED FOR NORMAL OPERATION AND OPEN IN ALARM.
- DRY CONTACT RATING: 30V DC/2A (resistive load, inductive load L/R = 7 ms)
- USE CAT-5 CABLE W/RJ45 CONNECTOR FOR ETHERNET CONNECTION TO COMMUNICATION NETWORK OR BAS SYSTEM

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
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F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK

OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSRVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE
NONOPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

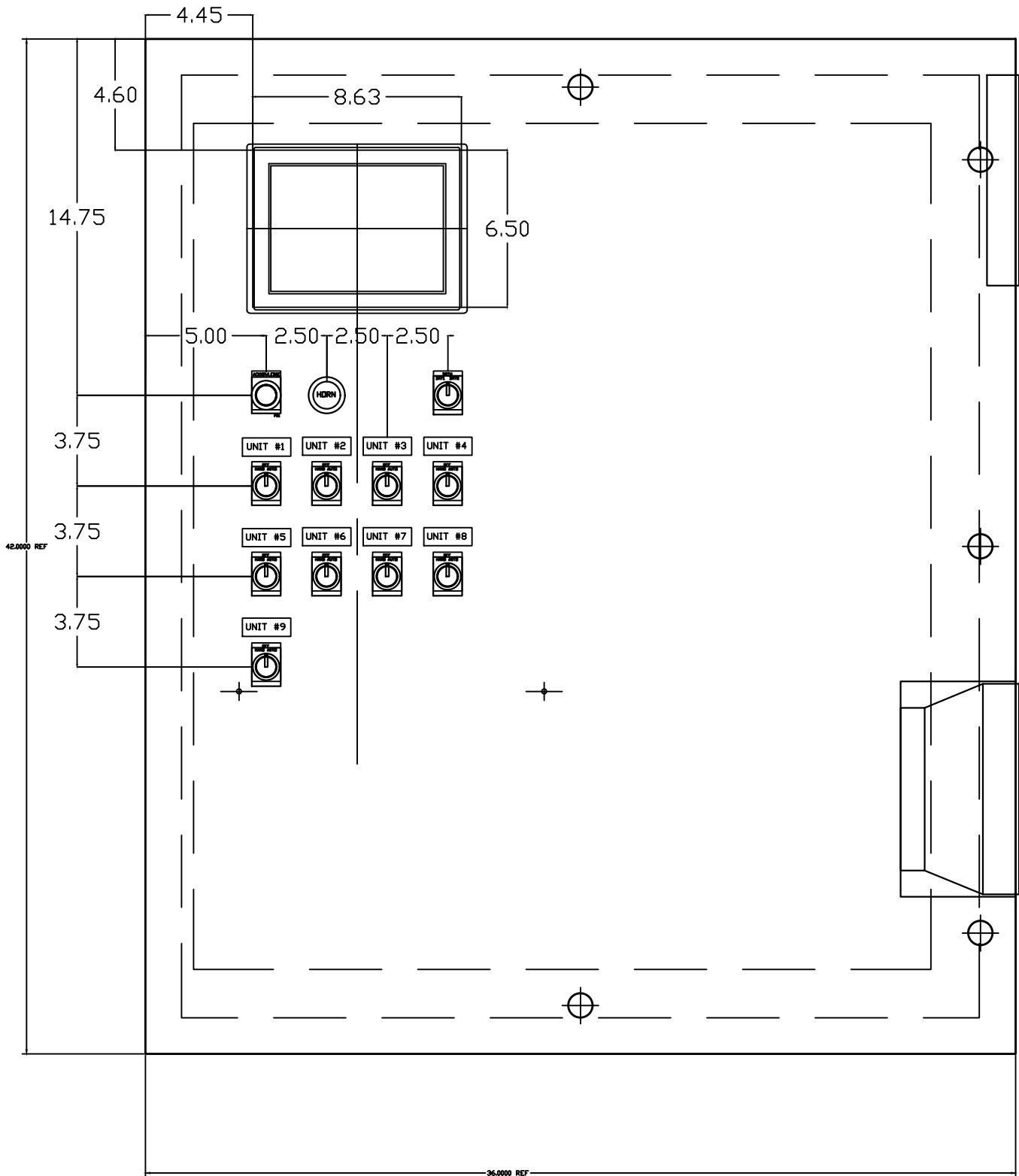
DWG. TYPE
WIRING

DWG. NO.
PXMI-A916

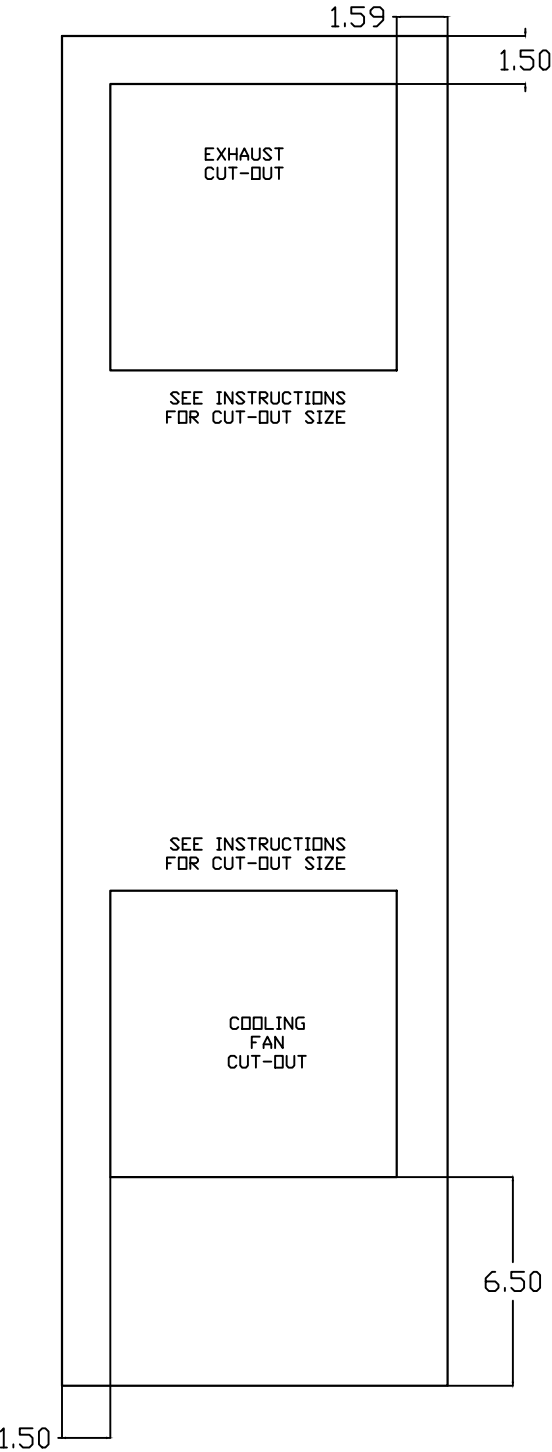
SHEET
W-11

SIZE
B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK



RIGHT SIDE OF ENCLOSURE



OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

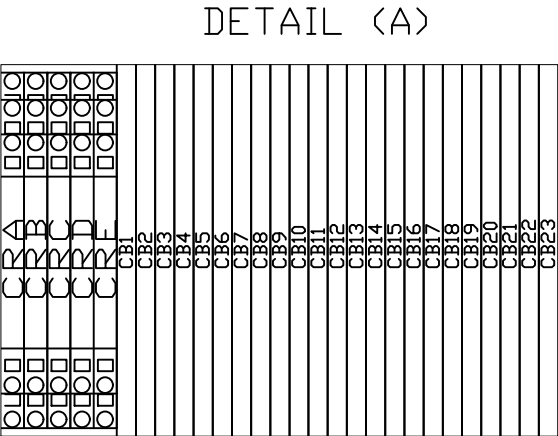
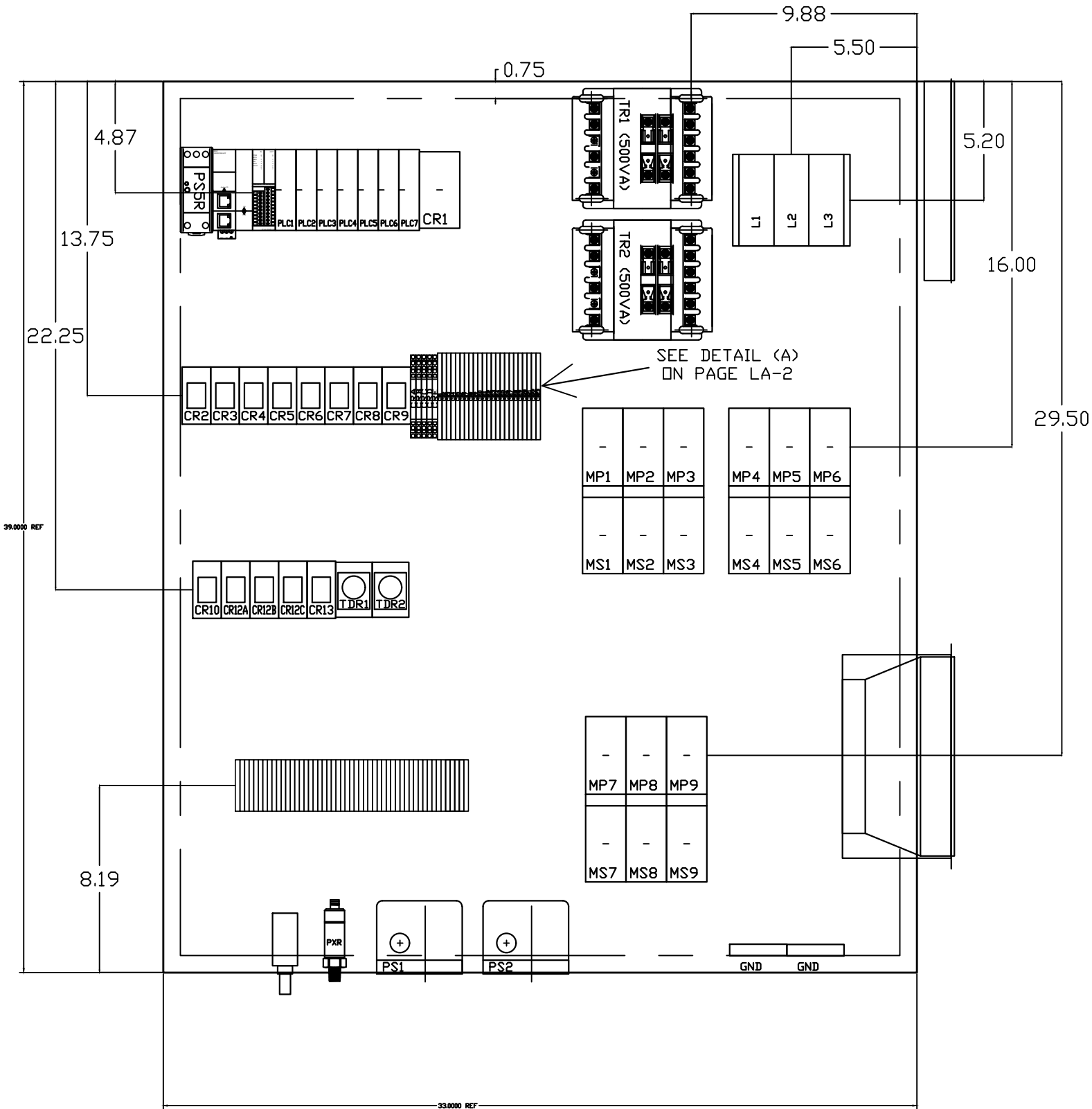
PANEL TYPE
NONOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA

DWG. TYPE LAYOUT

DWG. NO.
PXMI-A916

SHEET	SIZE
L-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK



OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	☒
	DOUBLE-CYLINDER PUMPS	☐
BACNET, WEBSRVR,	TRIPLE-CYLINDER PUMPS	☐

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
12/03/12	01/09/13	01/09/13

PANEL TYPE

NONOPLX MEDICAL COMP
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE LAYOUT

DWG. NO. PXMI-A916

SHEET	SIZE
L-2	B

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
208V (3Ø)	02AJ	4.1	38.9	50	45	50
	12AJ	4.5	42.5	60	50	50
	22AJ	6	56	70	70	70
	32AJ	9	83	110	90	100
	52AJ	14.2	129.8	175	150	175
	72AJ	20	182	225	200	225
	A2AJ *	27	245	300	300	300
	F2AJ *	41.1	371.9	500	450	450
230V (3Ø)	03AJ	3.6	34.4	45	40	45
	13AJ	4.4	41.6	60	45	50
	23AJ	5.8	54.2	70	60	70
	33AJ	8.1	74.9	100	90	90
	53AJ	12.8	117.2	150	150	150
	73AJ	18.1	164.9	225	200	200
	A3AJ	24.4	221.6	300	250	300
	F3AJ *	37.2	336.8	450	400	400
460V (3Ø)	04AJ	1.8	18.2	25	20	25
	14AJ	2.2	21.8	30	25	30
	24AJ	2.9	28.1	35	35	35
	34AJ	4.1	38.9	50	45	50
	54AJ	6.4	59.6	80	70	70
	74AJ	9	83	110	90	100
	A4AJ	12.2	111.8	150	125	150
	F4AJ	18.6	169.4	225	200	200

NOTES:

1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL 15 POUND INCHES
2. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
3. INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED. SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING TIME DELAY (CLASS J) FUSES, PANEL SCCR IS 65KA. OTHERWISE, PANEL SCCR IS 5KA.
4. ALL WIRES MUST BE LABELED ON BOTH ENDS
5. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
6. △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

FIELD WIRING NOTES ON PAGE W-10.

WIRE TYPE TABLE				CONTROL TRANSFORMERS - 500VA				
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR	FUSE TYPE		208 VOLT	230 VOLT	460 380 VOLT 575 VOLT
120VAC	001-599	16-18AWG	RED/BLK	FU1,2A	FNQR	6A	5A	5A 4A
0VAC	W	16-18AWG	WHT/BLK	FU1,2B				
24VDC	600-1200	16-18AWG	PURPLE	FU3A,B	FNM	7A	7A	7A 7A
0VDC	601,701	16-18AWG	PURPLE					
GND	-	VARIES	GREEN					
CUSTOMER SUPPLY	01-99	16AWG	YELLOW	SEE XFRMR FOR CONNECTIONS				

SEQUENCE OF OPERATIONS

During normal operation the PBMI controller will signal the Lead compressor to run when pressure drops below lead cut-in set-point and stop when the pressure reaches the lead cut-out set-point. Lead alternation to the next pump, will occur with each lead run signal or every 10-minutes (which ever happens first). If demand cannot be satisfied by the lead pump, the lag pump(s) will start and stop based upon the lag cut-in and cut-out set-points. When more than one pump is running, lead alternation will occur when the lowest cut-out set-point is satisfied, or after 10-minutes (which ever happens first). The HOA switch’s place the pump in the following modes: Hand-turns pump on to run continuous. Off-disables pump from running. Auto-places pump in the “ready mode” and will start and stop based on sequence described above.

All plex configurations include a hardwired Back-up pressure switch circuit should a control failure occur. This circuit will call all pumps on and off based on the reserve pressure switch set-points.

Expandable systems include all control devices, operators, and programming for the maximum number of pumps (or plex) required. To expand the system: navigate to the “service screen” and enter the number of pumps.

Additional information and descriptions can be accessed through the HMI “service info” screen by pressing Sequence of Operations button.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/09/13	PXEC_29	BFH	CHR
C-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
D-1	SWAP PLC TO FC6A	05/02/22	PXEC0200	AJL	KMD
E-1	CHANGED MP CONTACTS TO PUSHBUTTON STYLE	06/03/22	PXEC0495	KMD	AJL
F-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/14/24	PXEC0628	SEK	JRD
F-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK

OPTIONAL:

SINGLE CYLINDER AND SCROLLPUMPS

☒

DOUBLE-CYLINDER PUMPS

☐

BACNET, WEBSRVR,

TRIPLE-CYLINDER PUMPS

☐

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DRAWN BY

BFH

12/03/12

CHECKED BY

CHR

01/09/13

ENGINEERING APPROVAL

CHR

01/09/13

PANEL TYPE

NONOPLX MEDICAL COMP HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE

DATA

DWG. NO.

PXMI-A916

SHEET

D-1

SIZE

B

PXMI-A916 B1