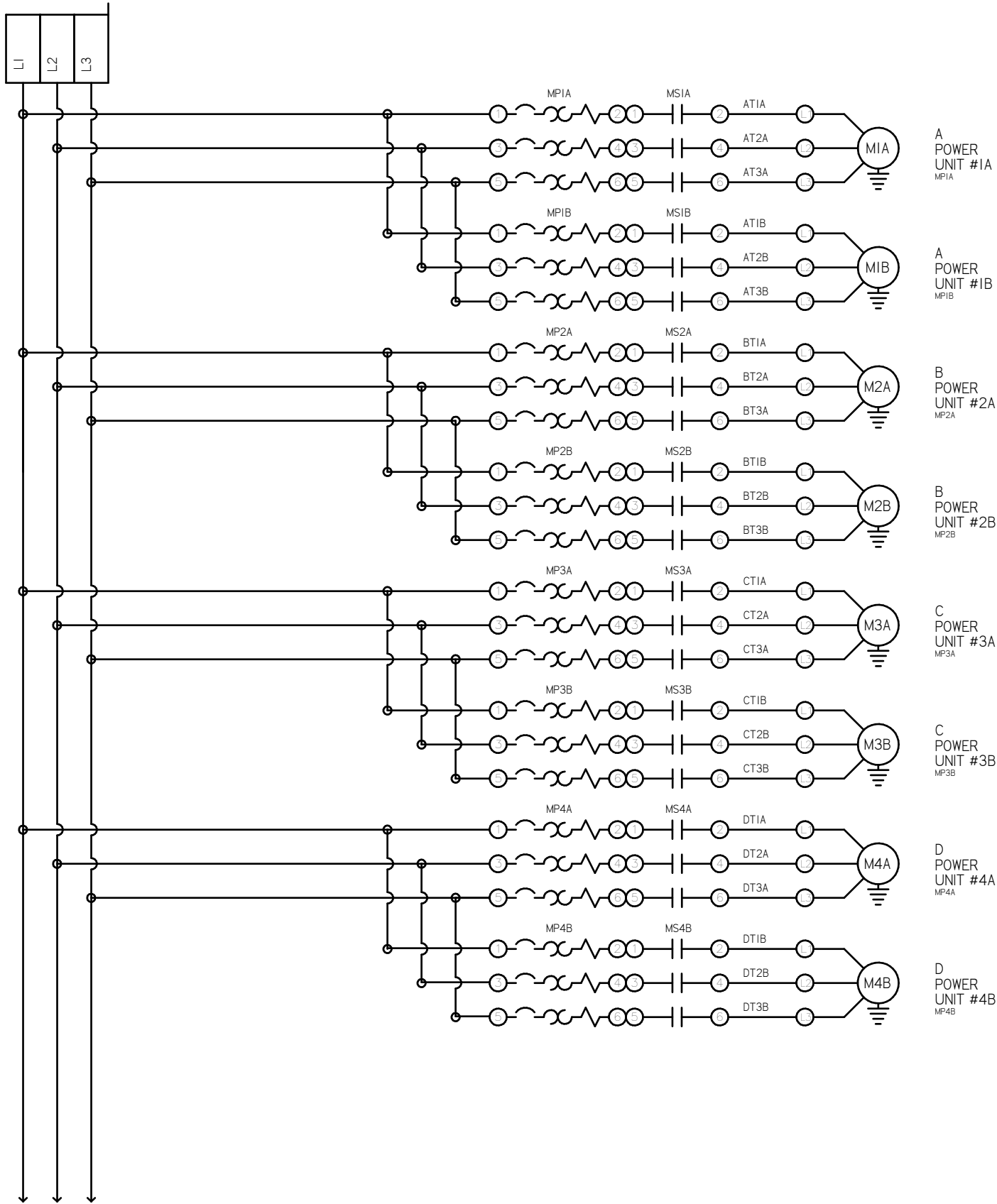


SEE TABLE 1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

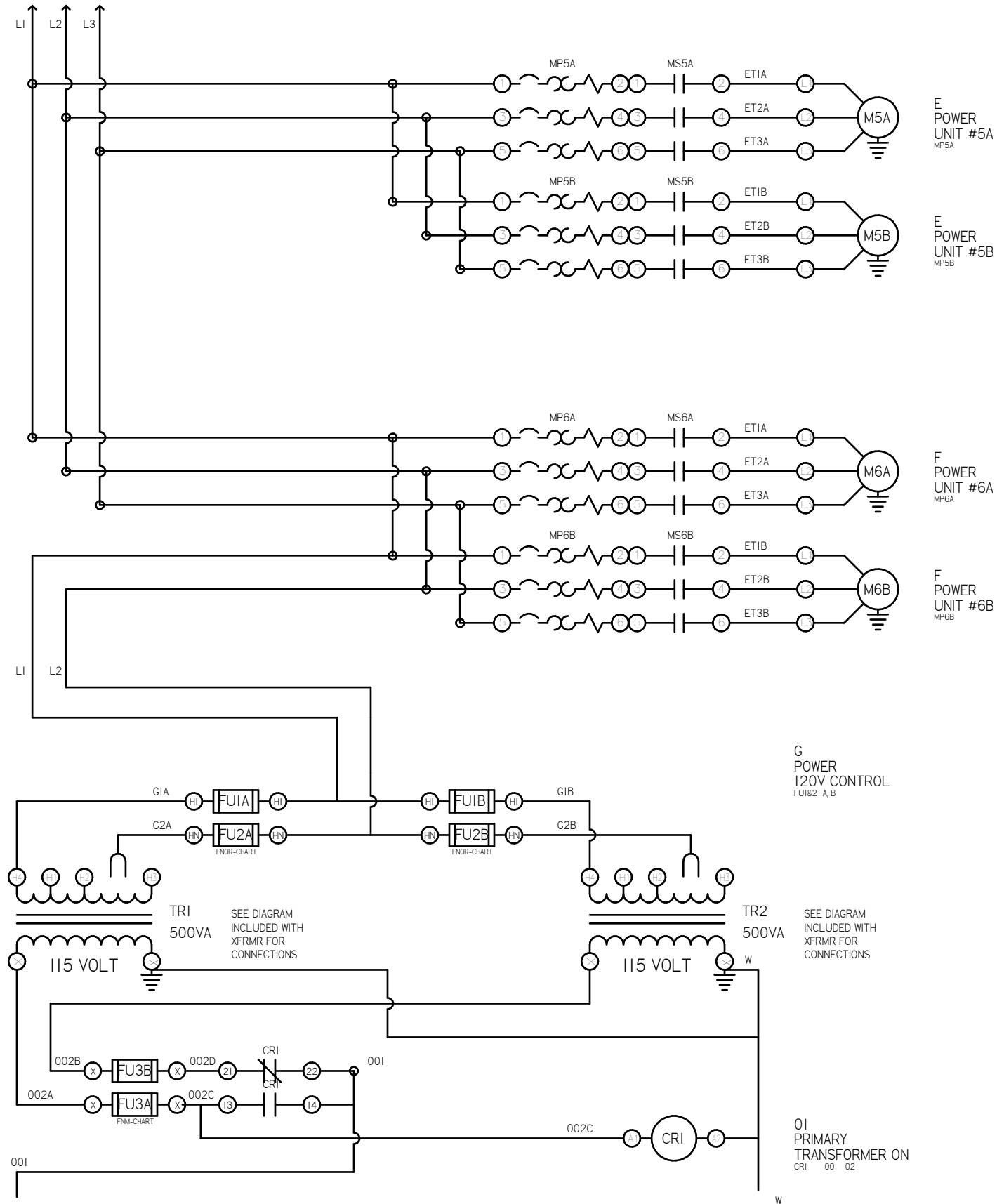
PANEL TYPE  
 HEX MEDICAL COMP  
 HMI, NFPA

DWG. TYPE WIRING

DWG. NO.  
 PXMI-S616X

SHEET	SIZE
W-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD



SEE TABLE 1 FOR BRANCH CIRCUIT PROTECTION

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

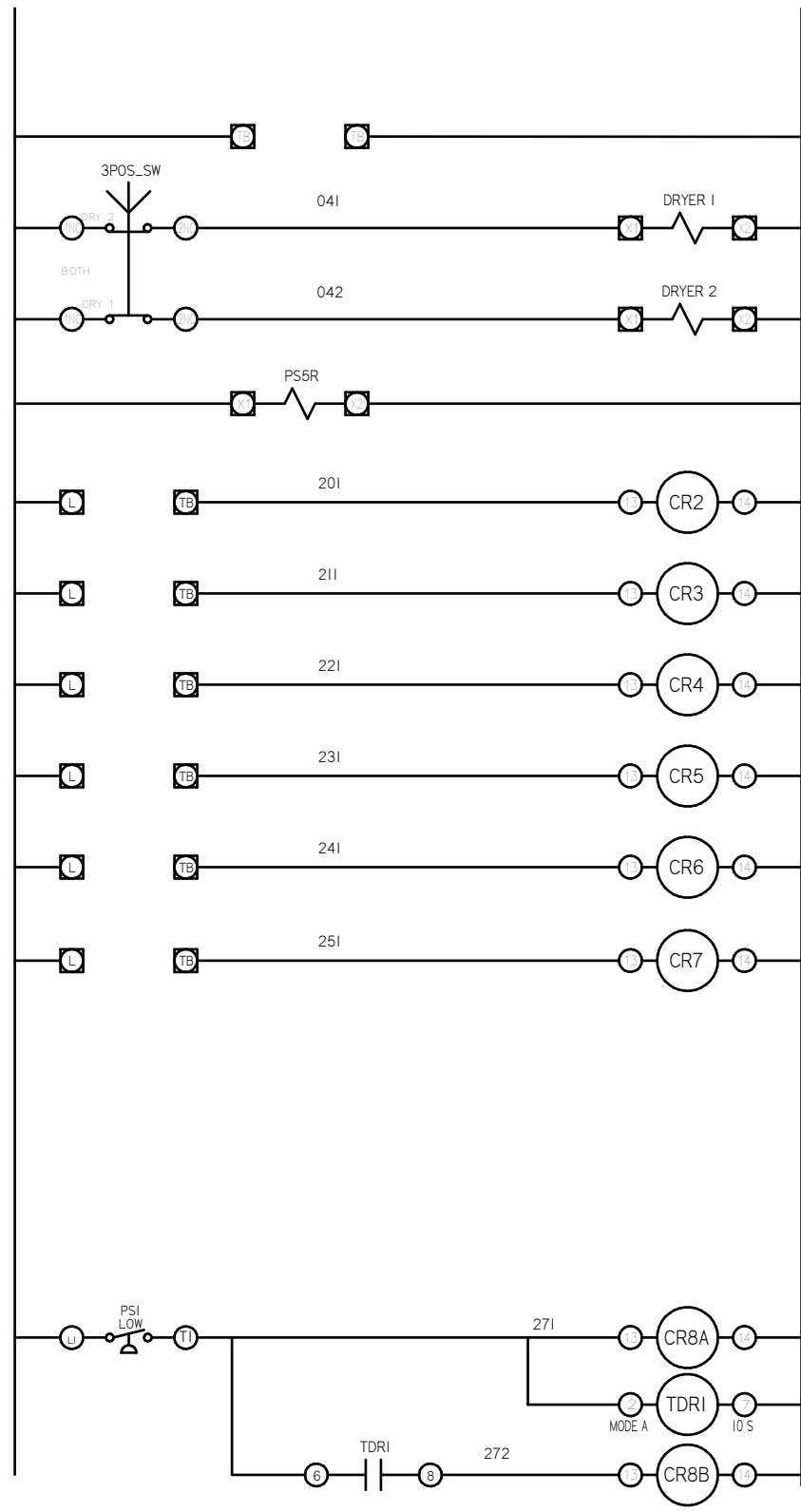
DWG. TYPE WIRING

DWG. NO. PXMI-S616X

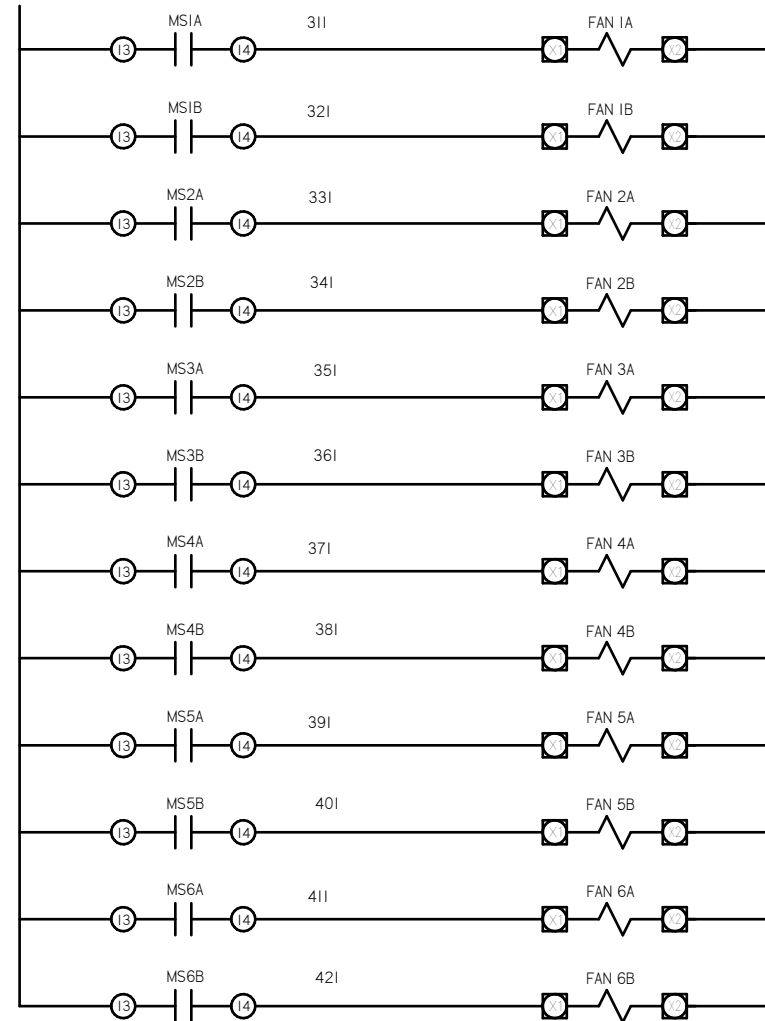
SHEET W-2 SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD

001



001



W

- 31 FAN POWER UNIT #1A TB
- 32 FAN POWER UNIT #1B TB
- 33 FAN POWER UNIT #2A TB
- 34 FAN POWER UNIT #2B TB
- 35 FAN POWER UNIT #3A TB
- 36 FAN POWER UNIT #3B TB
- 37 FAN POWER UNIT #4A TB
- 38 FAN POWER UNIT #4B TB
- 39 FAN POWER UNIT #5A TB
- 40 FAN POWER UNIT #5B TB
- 41 FAN POWER UNIT #6A TB
- 42 FAN POWER UNIT #6B TB

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

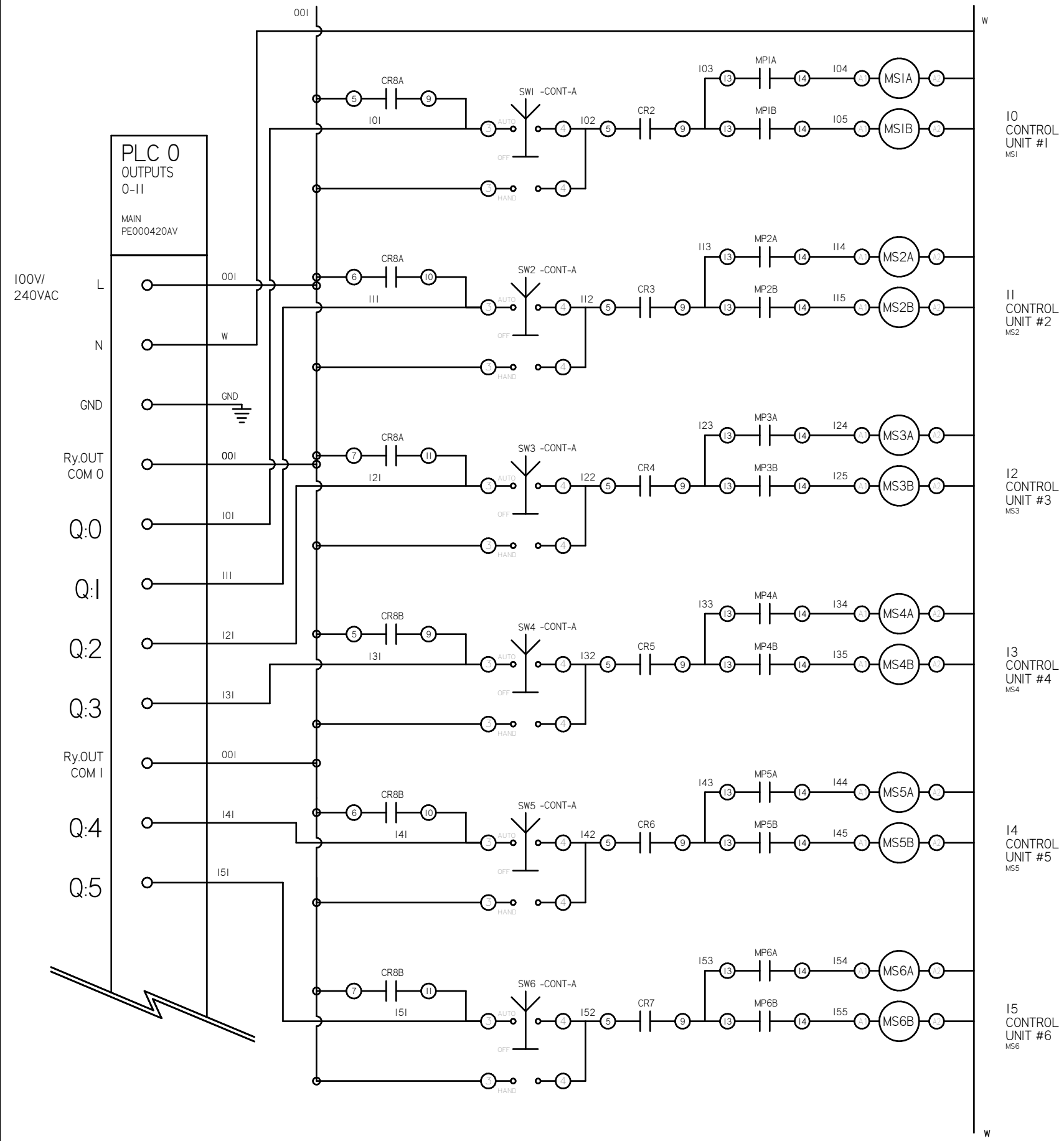
PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.  
PXMI-S616X

SHEET W-3 SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

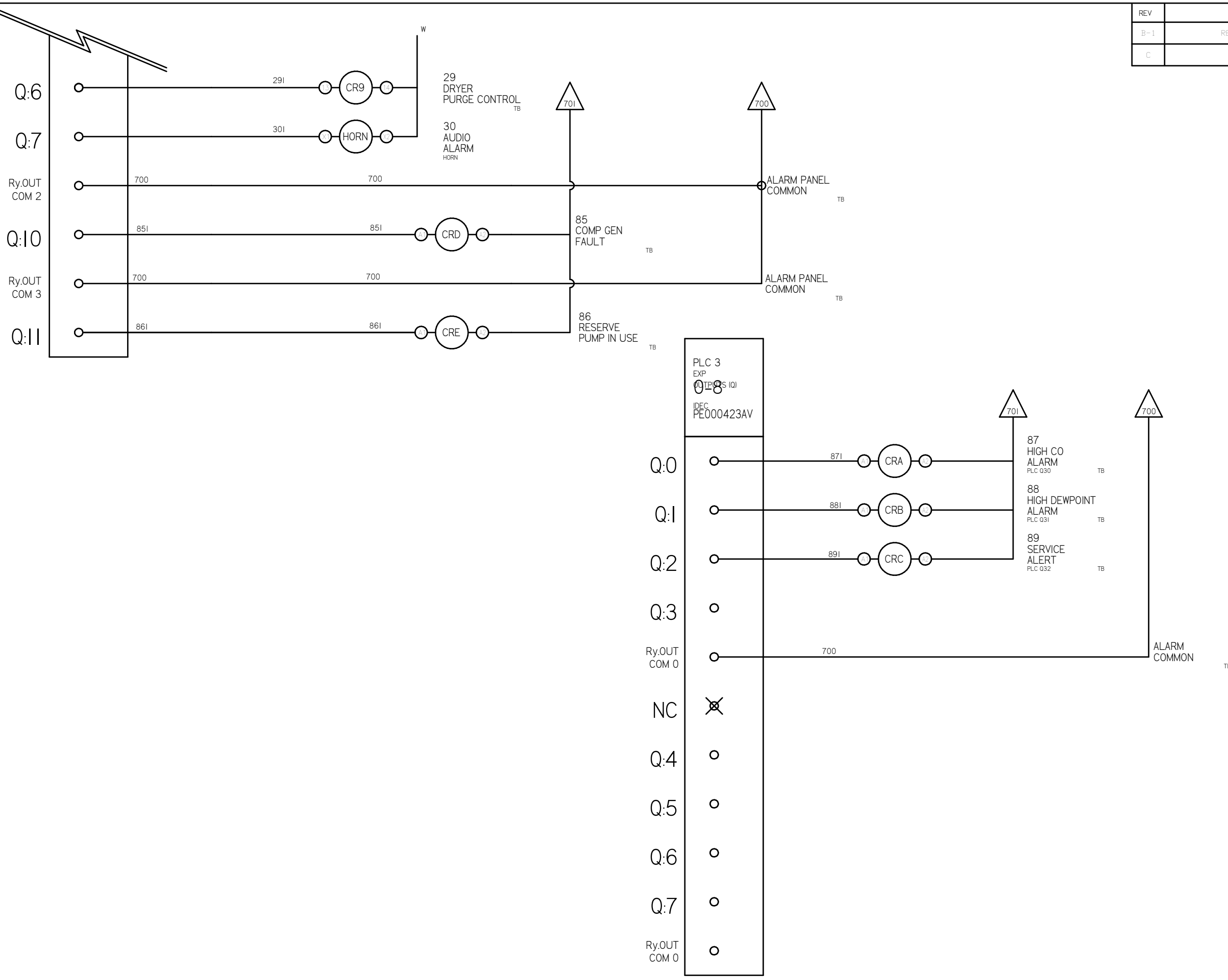
PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S616X

SHEET	SIZE
W-4	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

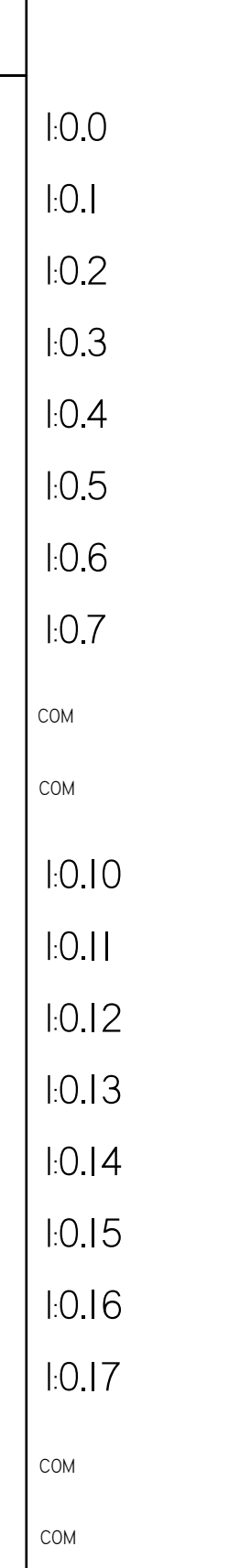
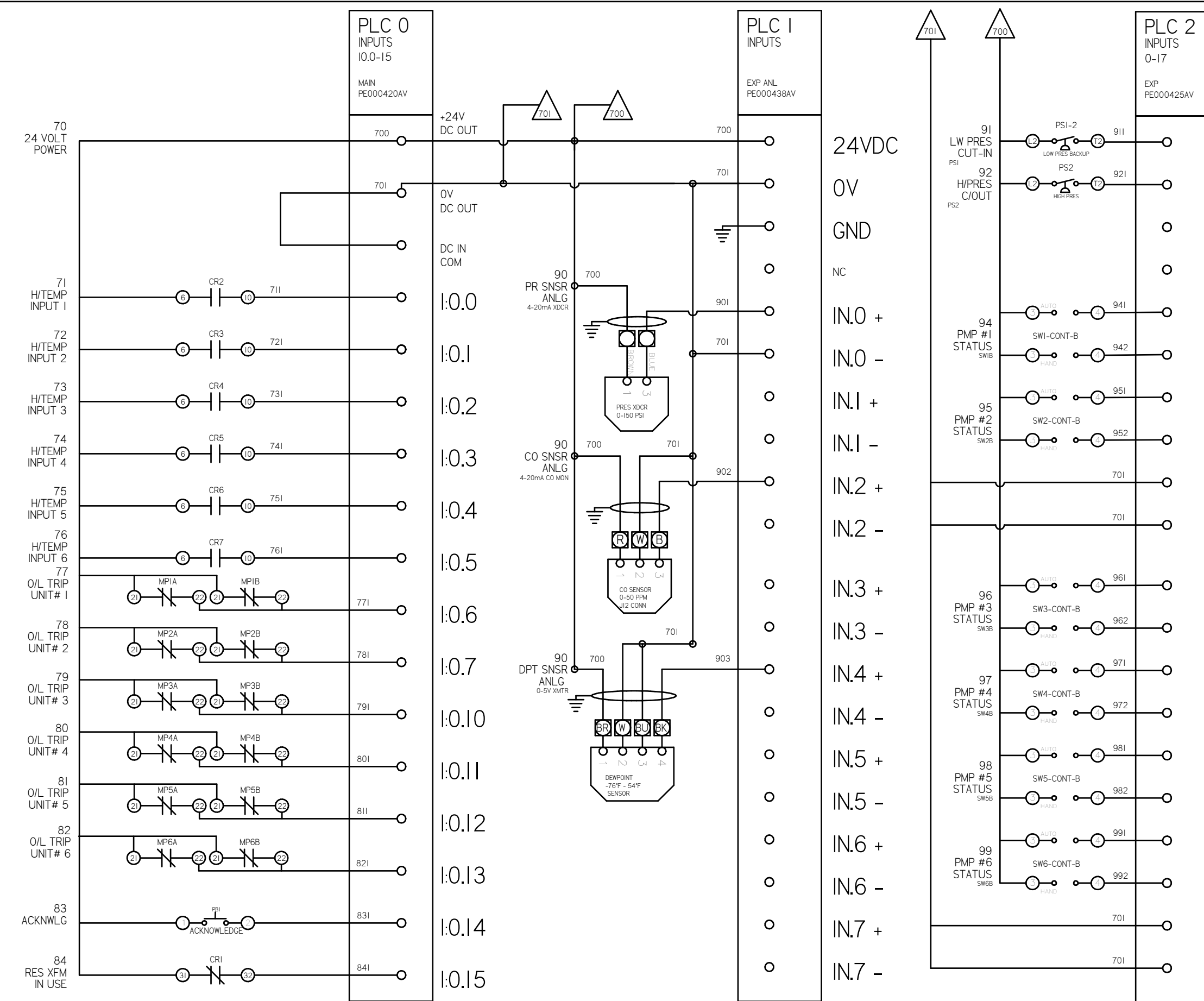
PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S616X

SHEET	SIZE
W-5	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

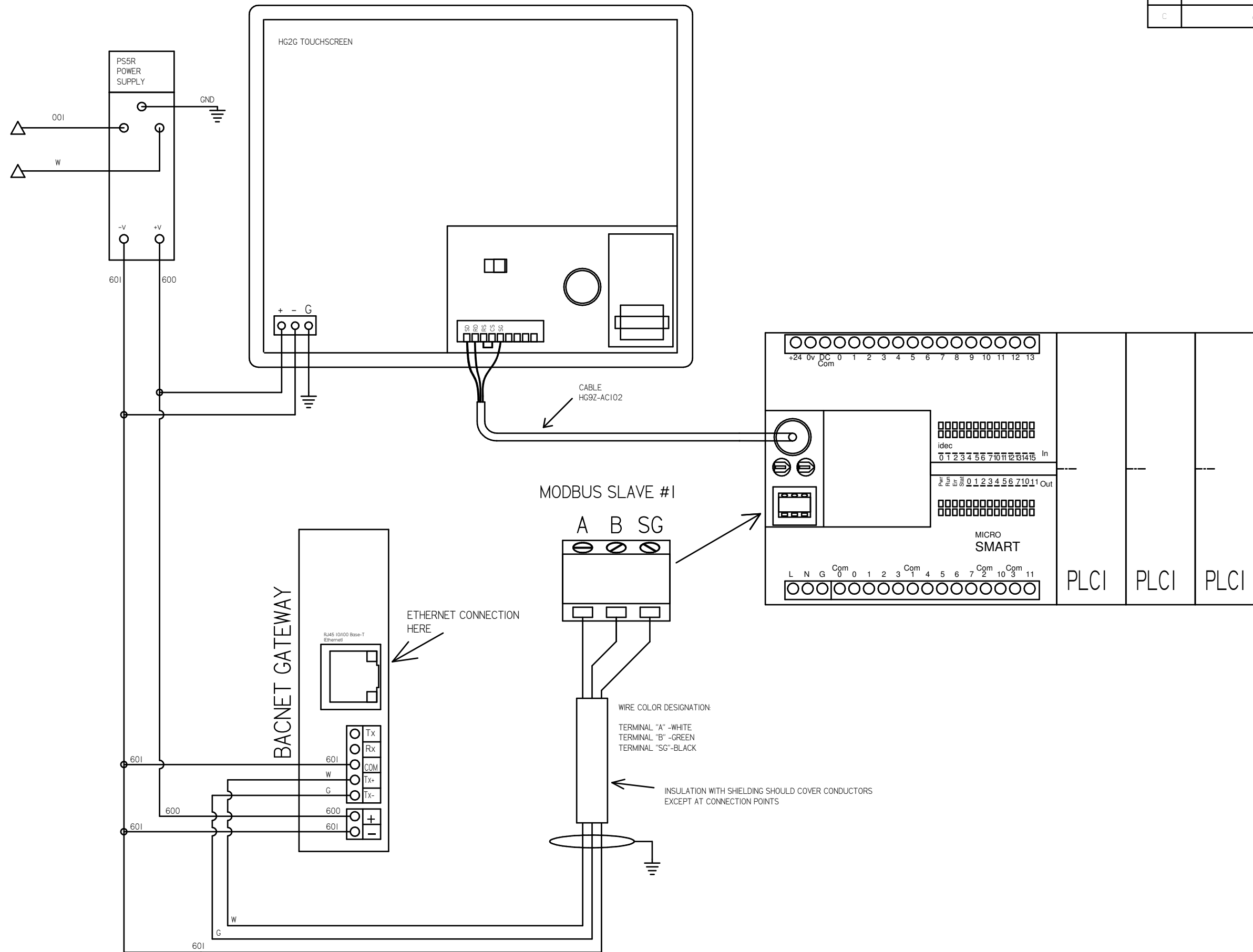
DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616X

SHEET  
W-6

SIZE  
B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

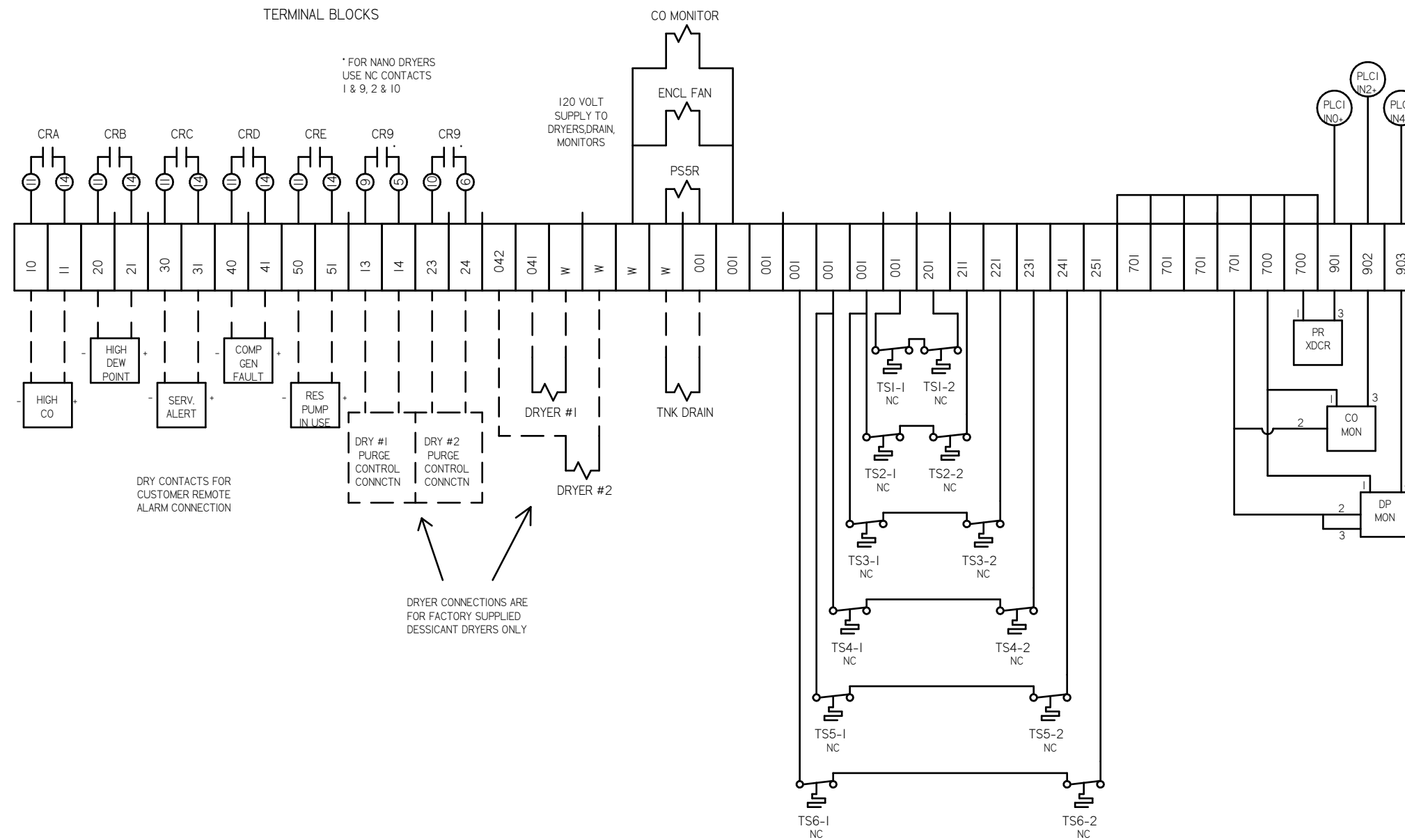
PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S616X

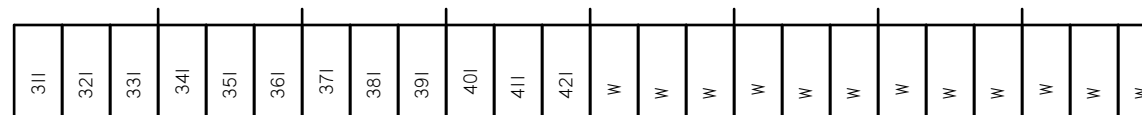
SHEET	SIZE
W-7	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD



**FIELD WIRING NOTES:**

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



**FAN WIRING**  
SEE RUNGS 31-42 FOR DETAILS

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE: WIRING

DWG. NO.: PXMI-S616X

SHEET: W-8 SIZE: B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD

TABLE 1

PANEL DATA 3Ø - 50 Hz 500VA CONTROL CIRCUIT					(B) BRANCH CIRCUIT PROTECTION - PROVIDED BY INSTALLER		
(A) LOAD SPECIFICATIONS					NON-TIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PANEL PART NUMBER	MOTOR SIZE EACH	(A) POWER (V/Ph)	(A) MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)			
PBMIS616ETAJ	7.5(X2)	460V/3	9.84	120.1	150A	150A	150A

NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE

NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:  
208-575 VOLT POWER 35 POUND INCHES  
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE TABLE 1.
- ALL WIRES MUST BE LABELED ON BOTH ENDS
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
- △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

FIELD WIRING NOTES ON PAGE W-8.

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120 VAC	01-699	16-18 AWG	RED/BLK
0VAC	W	16-18 AWG	WHT/BLK
24VDC	700-799	16-18 AWG	PURPLE
0VDC	701	16-18 AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16 AWG	YELLOW

TABLE 2 - CONTROL CIRCUIT PROTECTION				
	CB TYPE	208 VOLT	230 VOLT	460 VOLT
CB1&2 A&B	UL508E	6A	5A	5A
CB3 A&B	UL498	10A	10A	10A

### 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.

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

PANEL TYPE	
HEX MEDICAL COMP HMI, NFPA	
DWG. TYPE	WIRING
DWG. NO.	PXMI-S616X

SHEET	D-2	SIZE	B
-------	-----	------	---

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD

TABLE 1

PANEL DATA 3Ø - 60 Hz 500VA CONTROL CIRCUIT							
(A) LOAD SPECIFICATIONS					(B) BRANCH CIRCUIT PROTECTION - PROVIDED BY INSTALLER		
PANEL PART NUMBER	MOTOR SIZE EACH	(A) POWER (V/PH)	(A) MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PXMIS616A2AJ	5(X2)	208V/3Ø	14.0	170	200A	200A	200A
PXMIS616A3AJ	5(X2)	230V/3Ø	12.7	154.4	200A	175A	175A
PXMIS616A4AJ	5(X2)	460V/3Ø	6.33	78	100A	90A	90A
PXMIS616E2AJ	7.5(X2)	208V/3Ø	19.2	232.4	300A	250A	300A
PXMIS616E3AJ	7.5(X2)	230V/3Ø	17.3	209.6	250A	225A	250A
PXMIS616E4AJ	7.5(X2)	460V/3Ø	8.67	106	125A	125A	125A
PXMIS616G2AJ	10(X2)	208V/3Ø	26.5	320	400A	350A	400A
PXMIS616G3AJ	10(X2)	230V/3Ø	24.0	290	350A	350A	350A
PXMIS616G4AJ	10(X2)	460V/3Ø	12.0	146	175A	175A	175A

NOTE-- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE

NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:  
208-575 VOLT POWER 35 POUND INCHES  
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
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- △ INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

FIELD WIRING NOTES ON PAGE W-8.

### SEQUENCE OF OPERATIONS

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24VDC	700-799	16-18 AWG	PURPLE
0VDC	701	16-18 AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16 AWG	YELLOW

TABLE 2 - CONTROL CIRCUIT PROTECTION					
FUSE TYPE		208 VOLT	230 VOLT	460 VOLT	575 VOLT
FU1,2A FU1,2B	FNQR	6A	5A	5A	4A
FU3AB	FNM	7A	7A	7A	7A

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

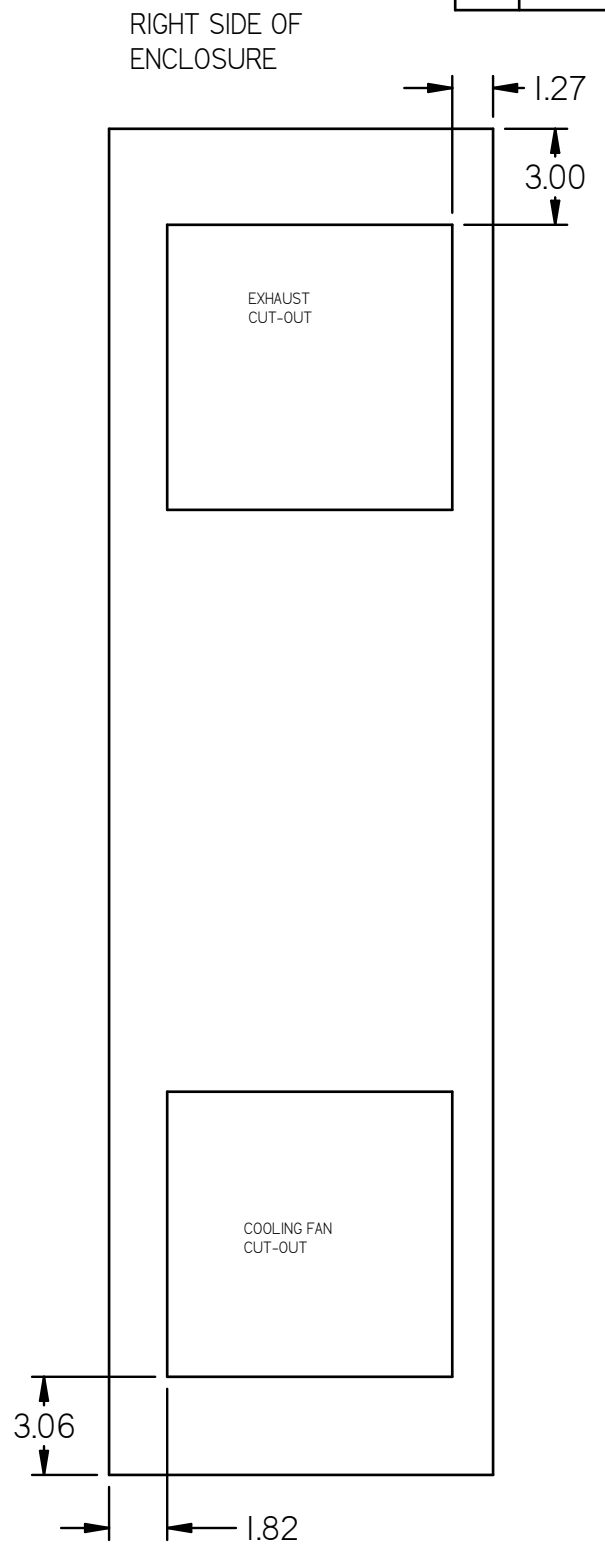
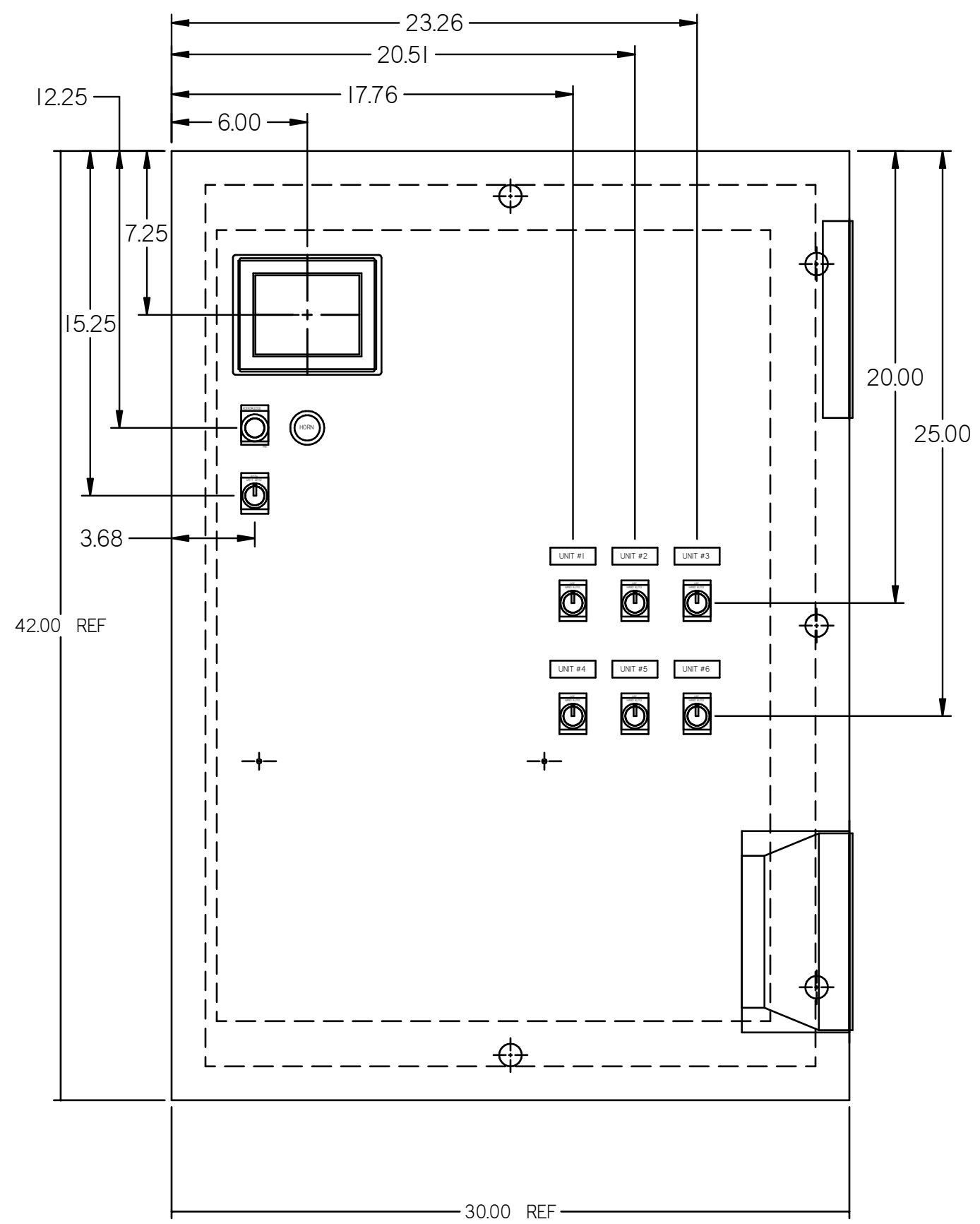
PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.  
PXMI-S616X

SHEET D-1 SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

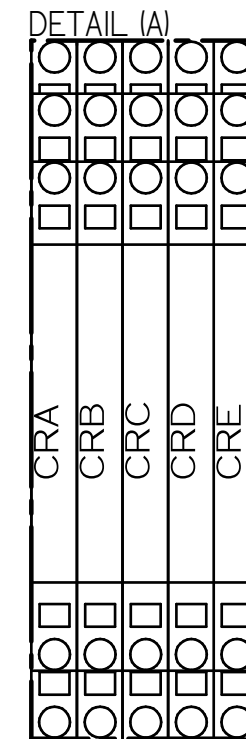
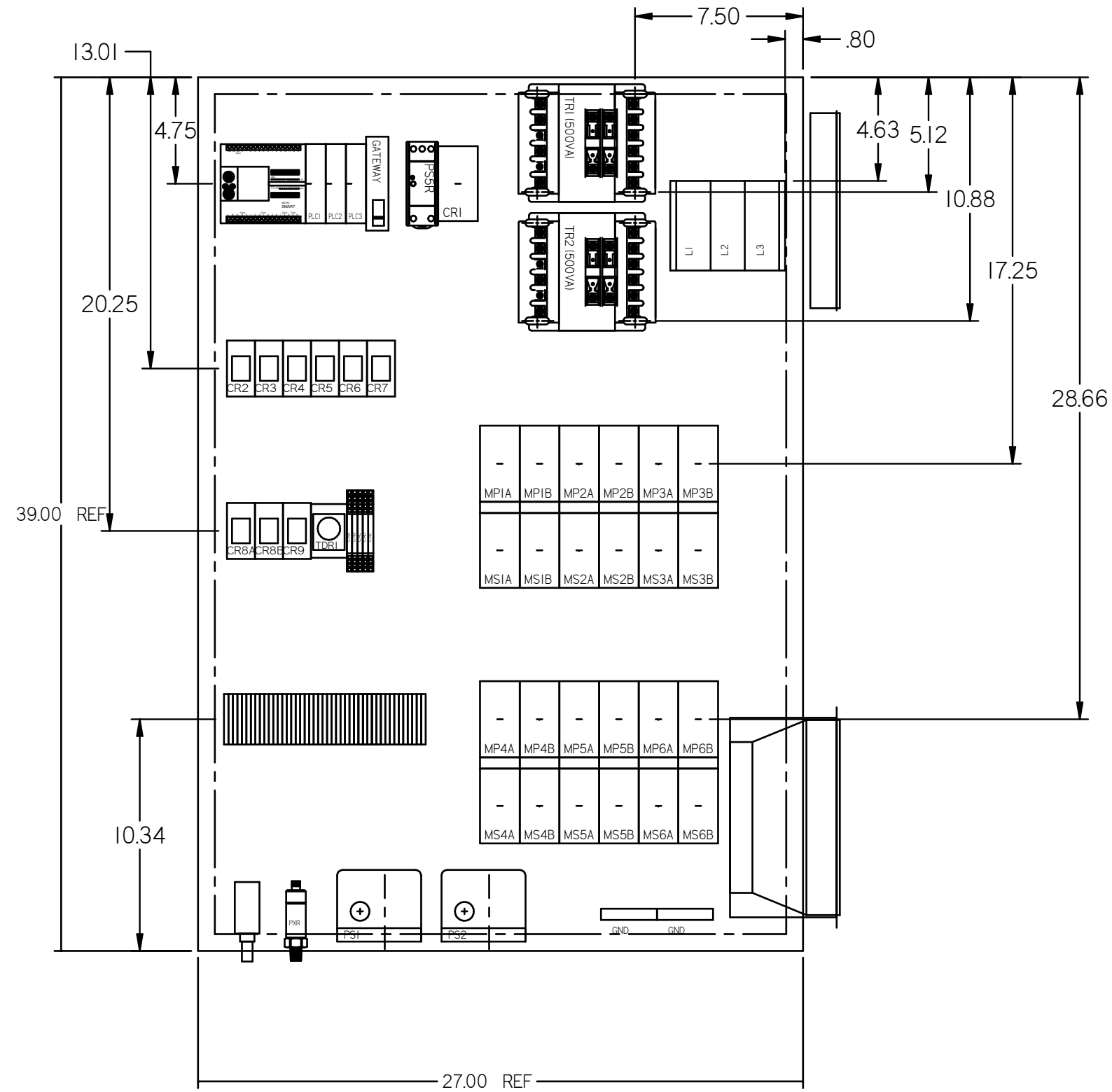
PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.  
PXMI-S616X

SHEET	SIZE
L-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/17/17	PXEC0186	AJL	DMS
C	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	DMS	DMS
4/24/17	11/17/17	11/17/17

PANEL TYPE  
HEX MEDICAL COMP  
HMI, NFPA

DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616X

SHEET	SIZE
L-2	B