

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBLS CHANGED NAME FROM "S216A" TO "S216X"	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0229	JPG	AH

- OPTIONAL:
- BACNET, WEBSERVER
 - SINGLE CYLINDER PUMPS
 - DOUBLE-CYLINDER PUMPS
 - TRIPLE-CYLINDER PUMPS
 - SCROLL PUMPS



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

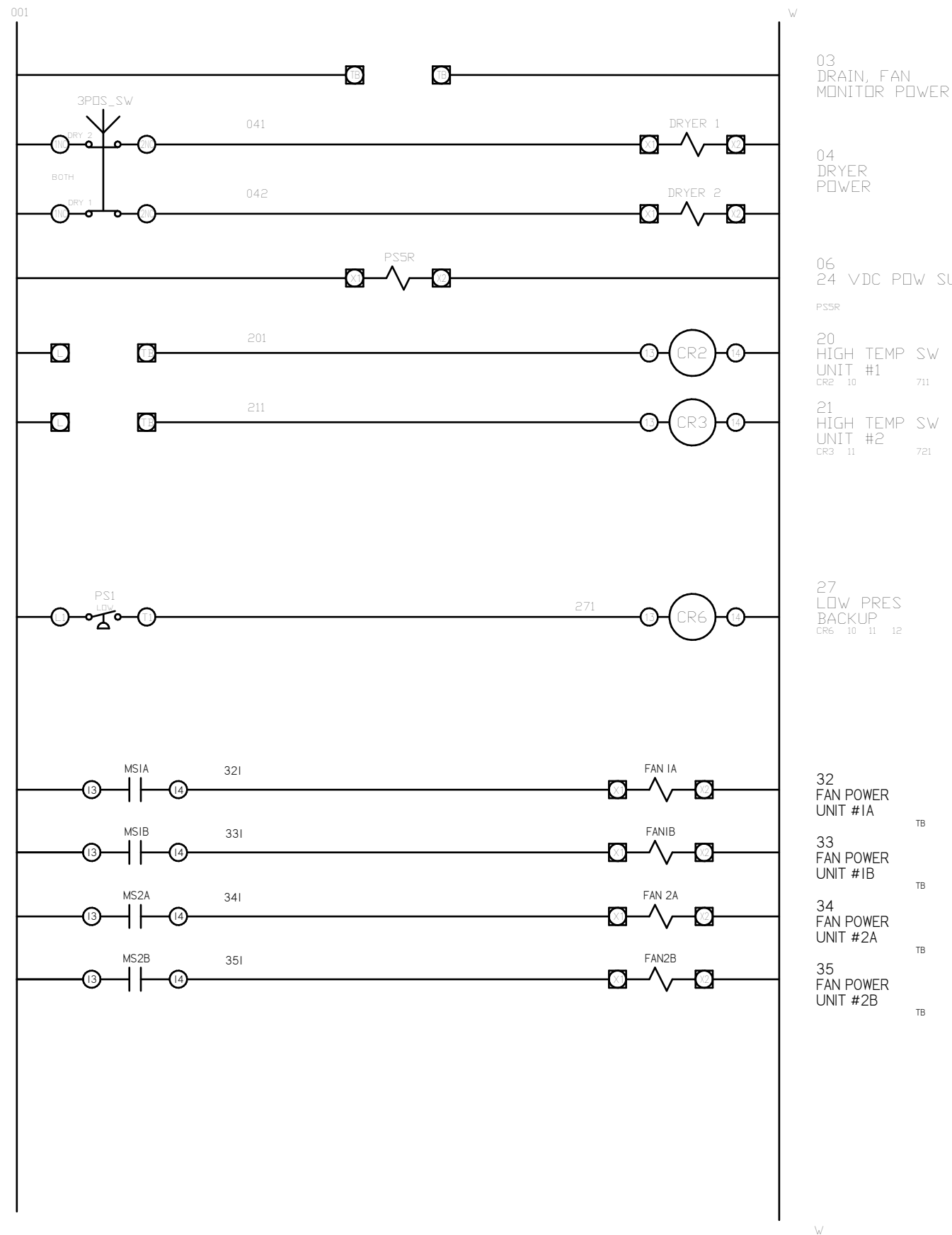
PANEL TYPE
DUP MED 2xSCROLL PER PLEX
HMI, NFPA

DWG. TYPE **WIRING**

DWG. NO.
PXMI-S216X

SHEET W-1	SIZE B
---------------------	------------------

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBLS CHANGED NAME FROM "S216A" TO "S216X"	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0229	JPG	AH



OPTIONAL:	SINGLE CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSERVER	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
	SCROLL PUMPS	<input checked="" type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

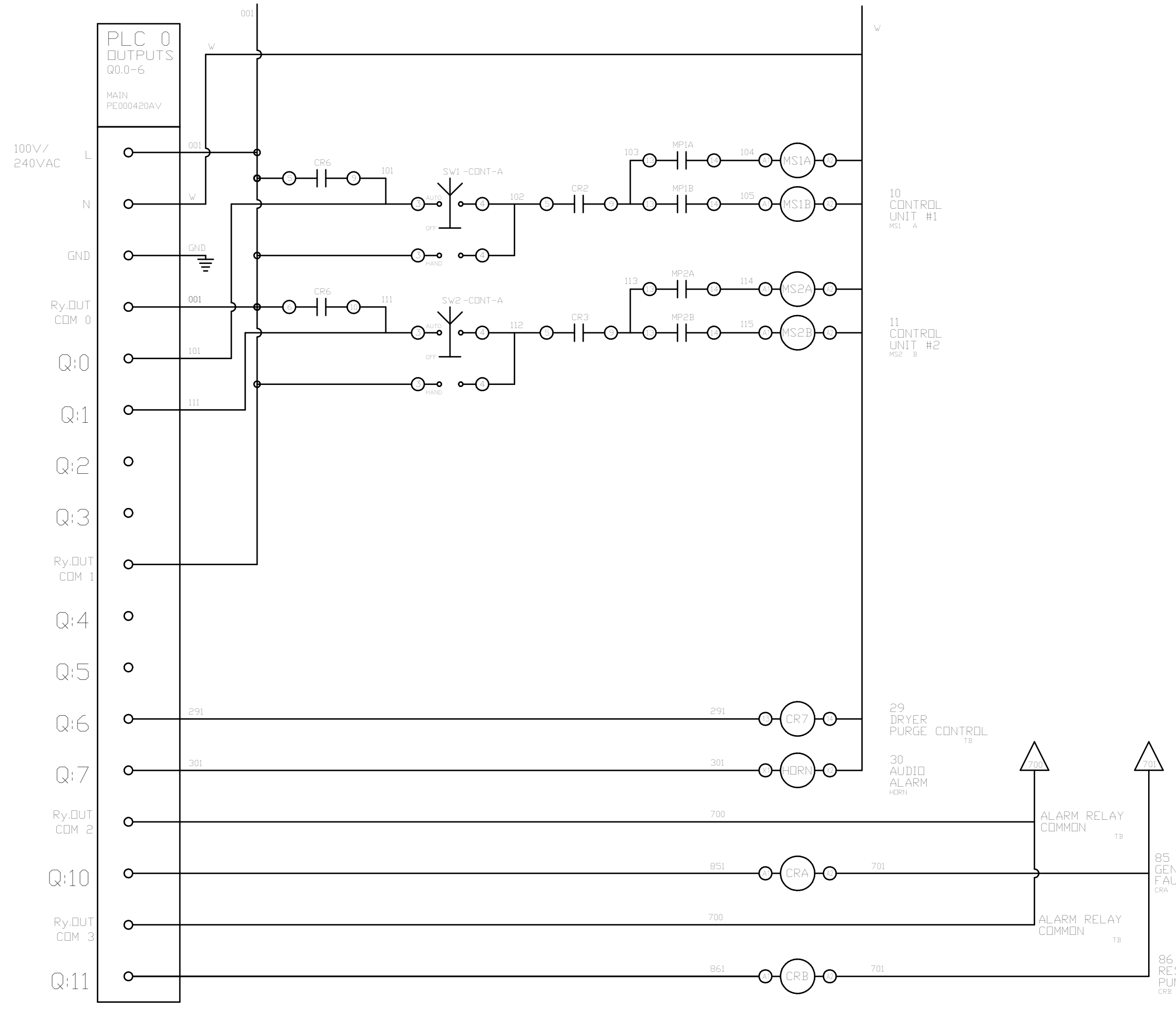
PANEL TYPE
DUP MED 2xSCROLL PER PLEX
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S216X

SHEET W-2 SIZE B

REV	REVISION	DATE	BY	CHK	APP
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBL'S CHANGED NAME FROM *S216A* TO *S216X*	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0229	JPG	AH



- OPTIONAL:
- BACNET, WEBSERVER
 - SINGLE CYLINDER PUMPS
 - DOUBLE-CYLINDER PUMPS
 - TRIPLE-CYLINDER PUMPS
 - SCROLL PUMPS



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

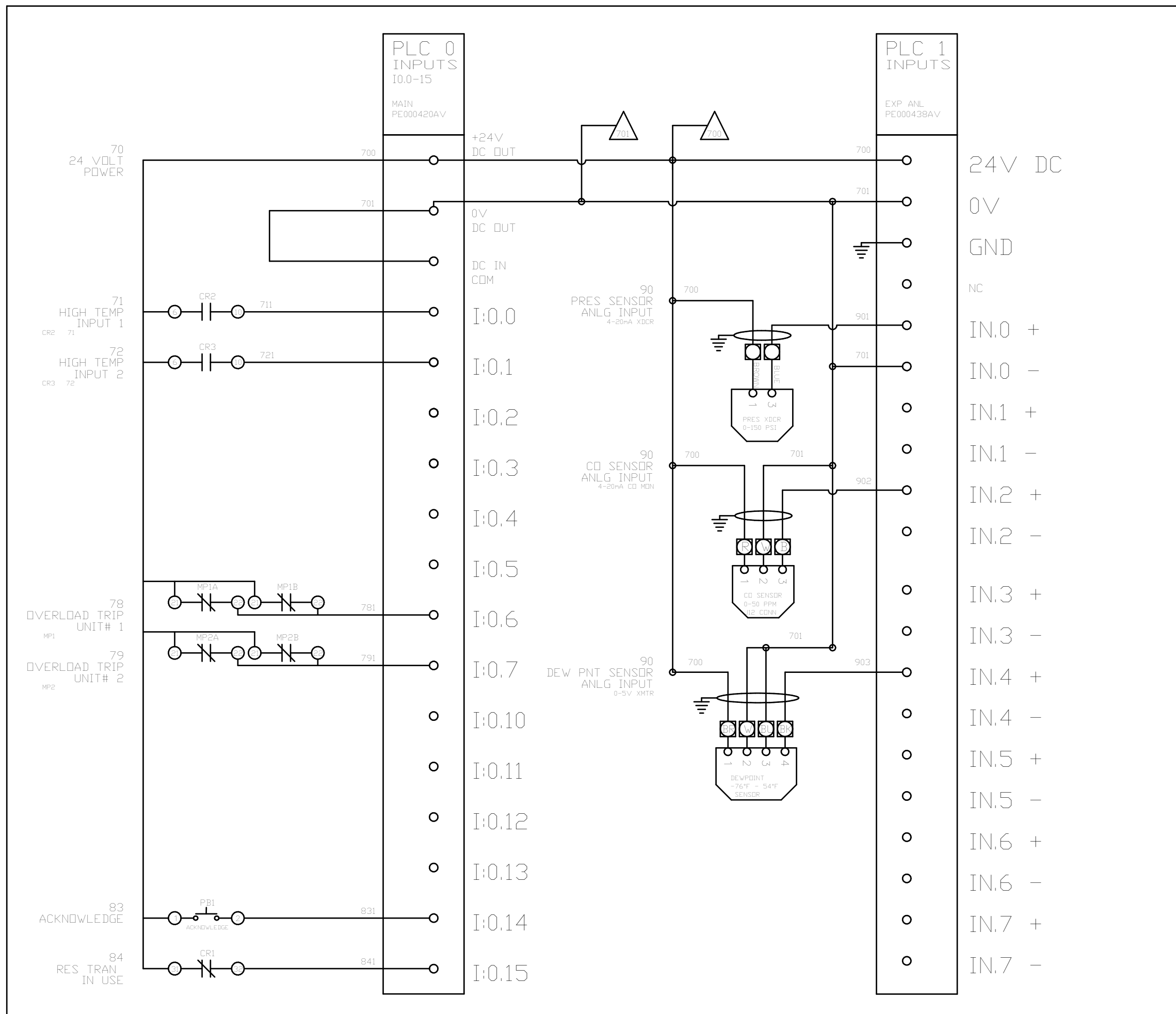
PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE: WIRING

DWG. NO.: PXMI-S216X

SHEET	SIZE
W-3	B

REV	REVISION	DATE	LEN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBL'S CHANGED NAME FROM *S216A* TO *S216X*	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0229	JPG	AH



OPTIONAL:

BACNET, WEBSERVER	SINGLE CYLINDER PUMPS	<input type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
	SCROLL PUMPS	<input checked="" type="checkbox"/>



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DRAWN BY	OR EXAMINATION CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

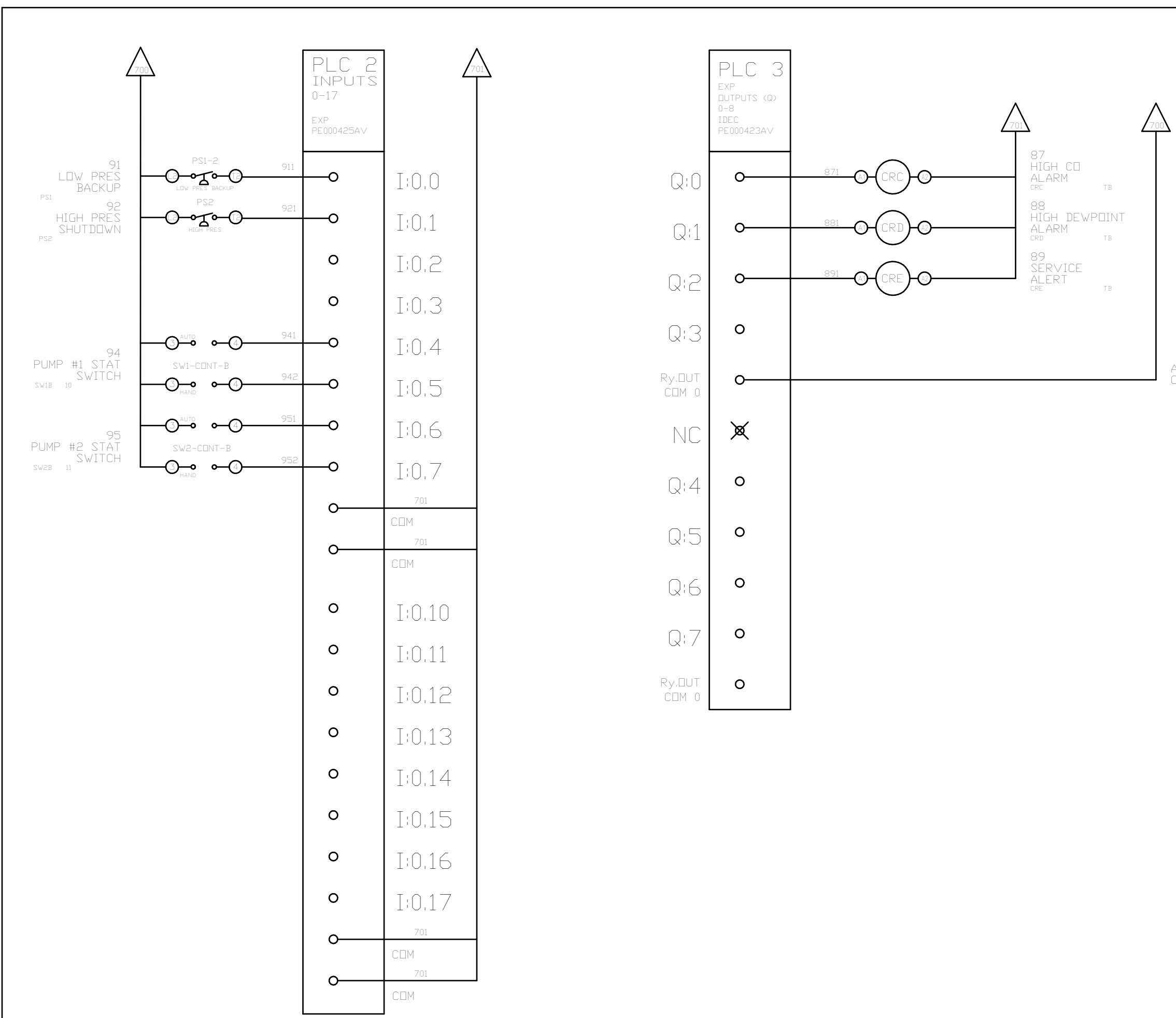
PANEL TYPE
DUP MED 2xSCROLL PER PLEX
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S216X

SHEET	SIZE
W-4	B

REV	REVISION	DATE	EN	NAME	CHK
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBLS CHANGED NAME FROM *S216A* TO *S216X*	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0225	JPG	AH



OPTIONAL:

BACNET, WEBSERVER	SINGLE CYLINDER PUMPS	<input type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
	SCROLL PUMPS	<input checked="" type="checkbox"/>



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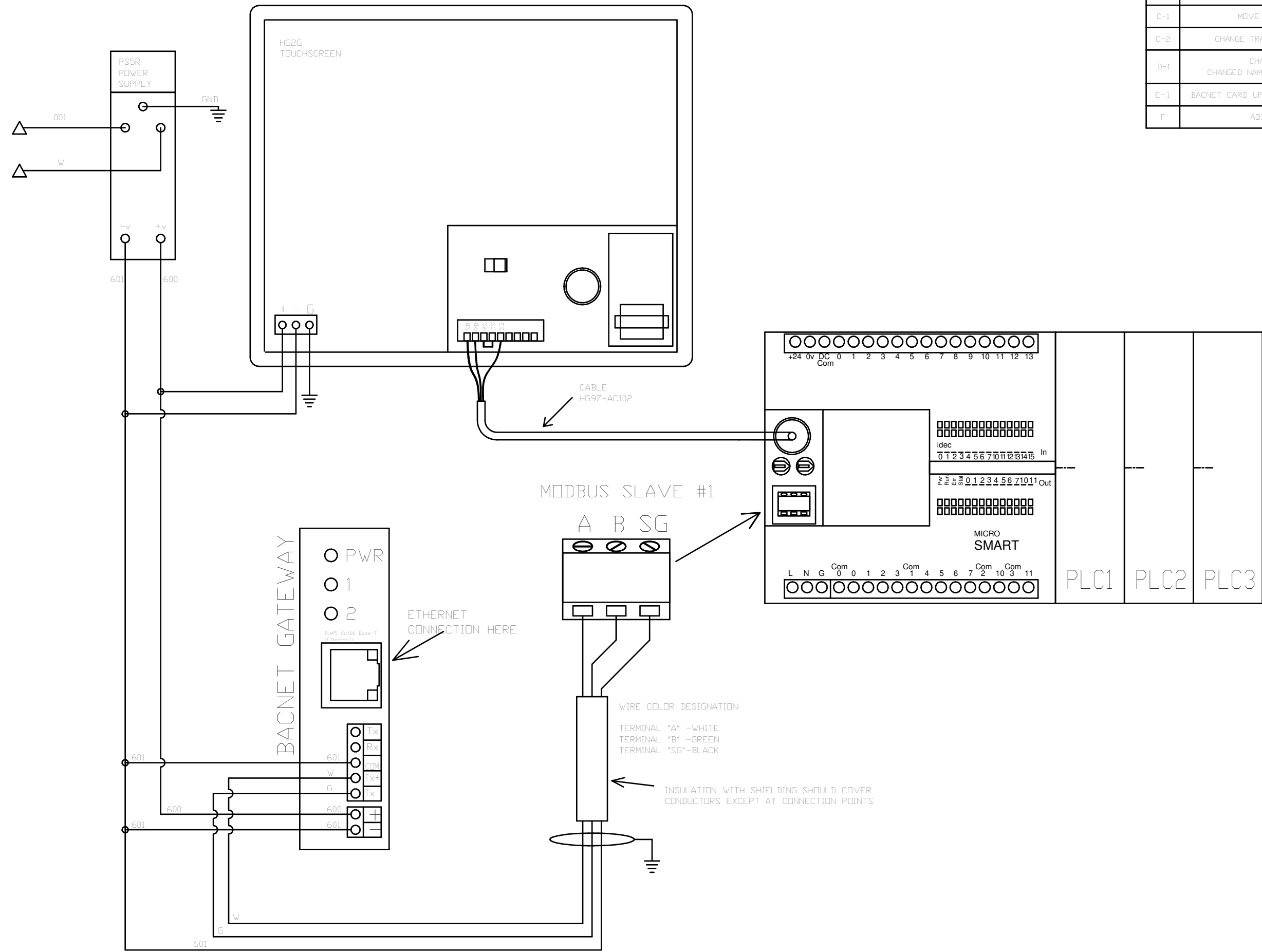
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
 DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE: WIRING
 DWG. NO.: PXMI-S216X

SHEET	SIZE
W-5	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBLS CHANGED NAME FROM *S216A* TO *S216X*	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0229	JPG	AH



OPTIONAL:	SINGLE CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSERVER	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
	SCROLL PUMPS	<input checked="" type="checkbox"/>



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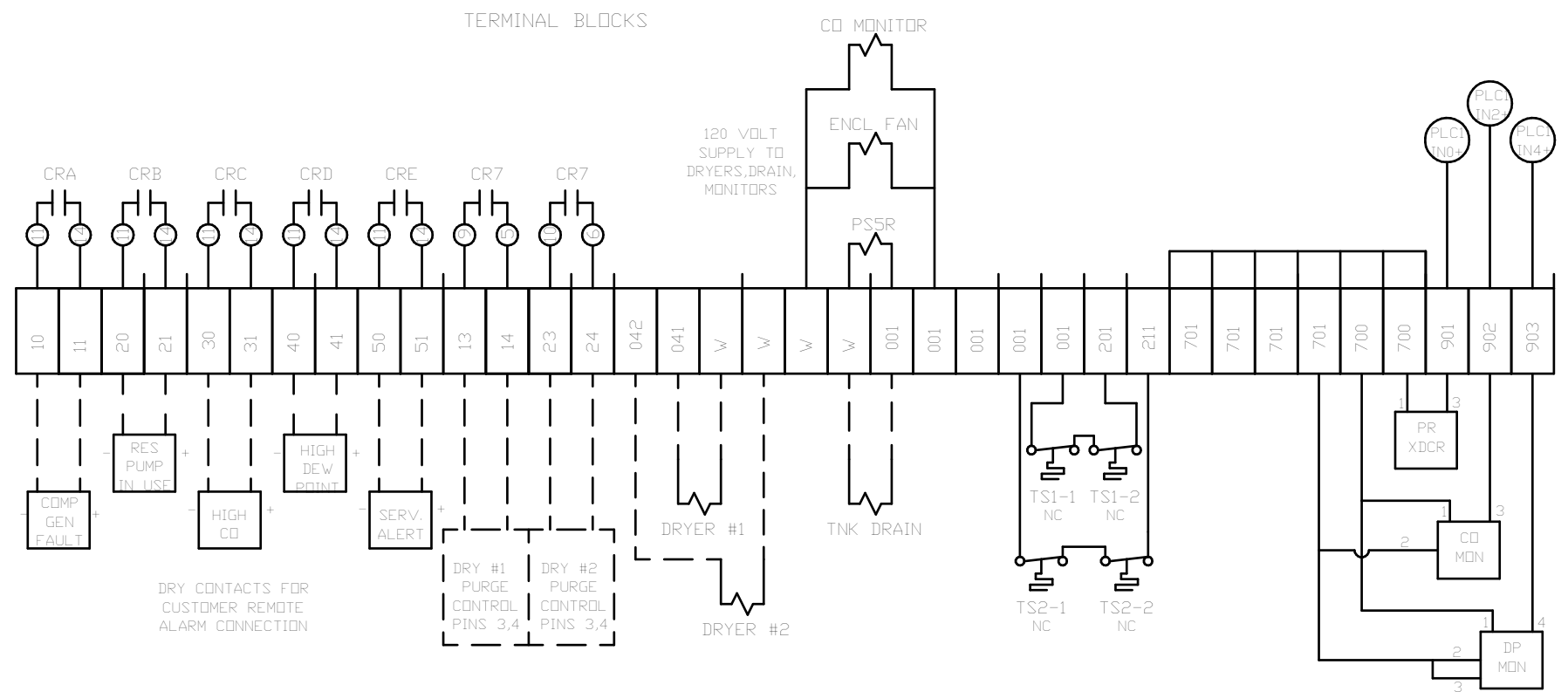
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PXMI-S216X

SHEET	SIZE
W-6	B



REV	REVISION	DATE	EN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBL'S CHANGED NAME FROM 'S216A' TO 'S216X'	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0229	JPG	AH

- OPTIONAL:
- BACNET, WEBSERVER
 - SINGLE CYLINDER PUMPS
 - DOUBLE-CYLINDER PUMPS
 - TRIPLE-CYLINDER PUMPS
 - SCROLL PUMPS



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DRAWN BY	or examination CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

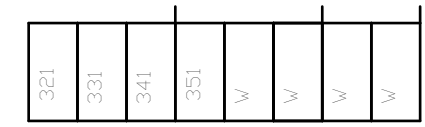
DWG. TYPE WIRING

DWG. NO. PXMI-S216X

SHEET	SIZE
W-7	B

ASSEMBLY NOTE:

USE SHIELDED CABLE BETWEEN TERMINAL BLOCKS AND PLC. CONNECT GROUND LOOPS TO GROUND BLOCK. CABLE IS NOT TO BE ROUTED IN PROXIMITY (2") OR ROUTED IN WIRE TRAY OF ANY 3-PHASE POWER CONDUCTORS.

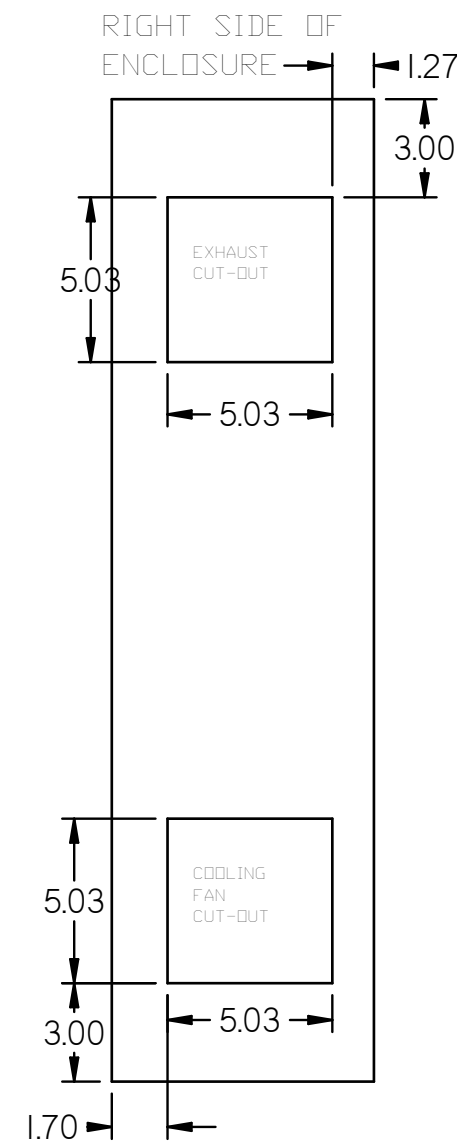
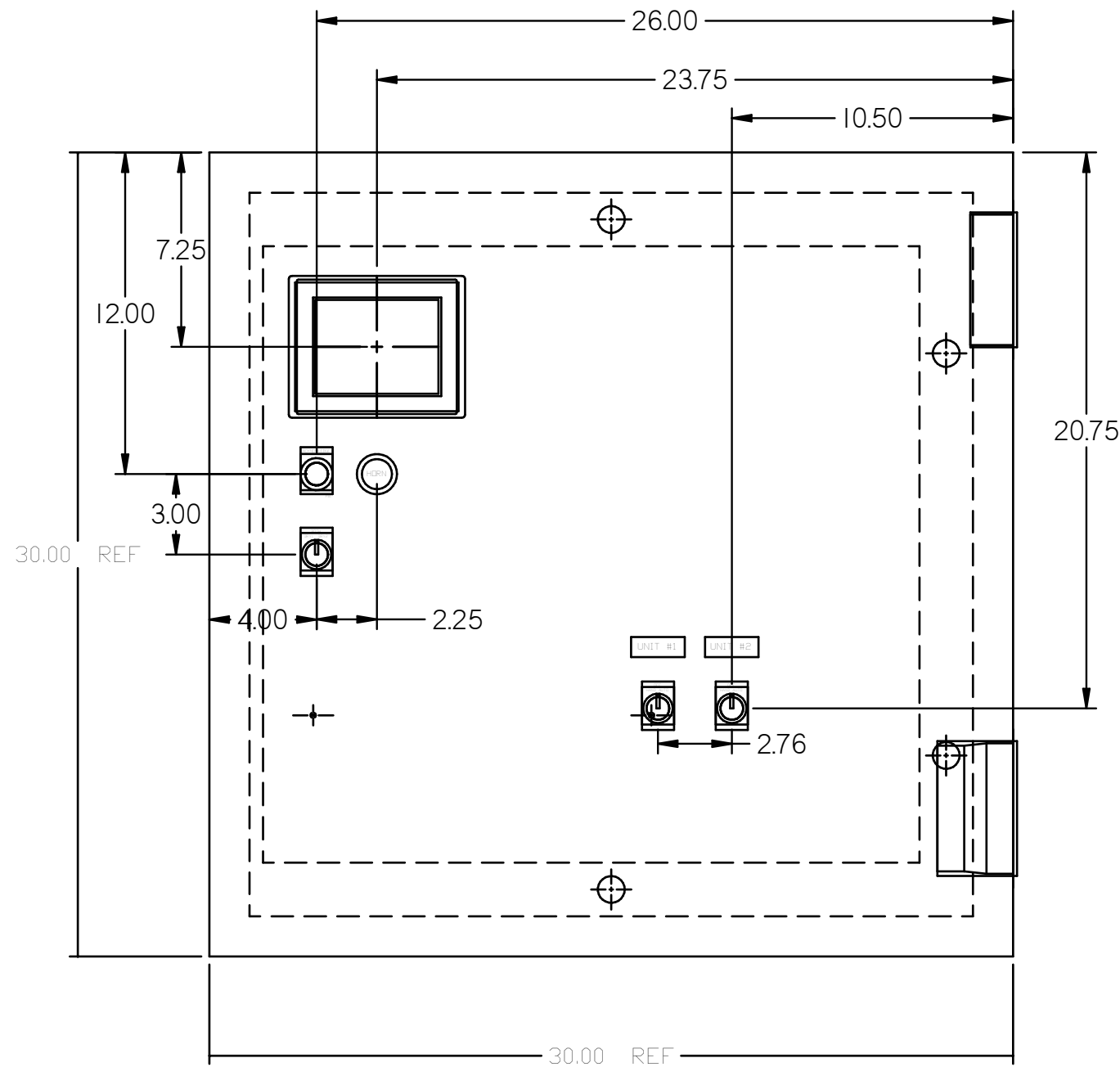


FAN WIRING
SEE RUNGS 32-35 FOR DETAILS

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	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBLS CHANGED NAME FROM "S216A" TO "S216X"	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0225	JPG	AH



- OPTIONAL:
- BACNET, WEBSERVER
 - SINGLE CYLINDER PUMPS
 - DOUBLE-CYLINDER PUMPS
 - TRIPLE-CYLINDER PUMPS
 - SCROLL PUMPS



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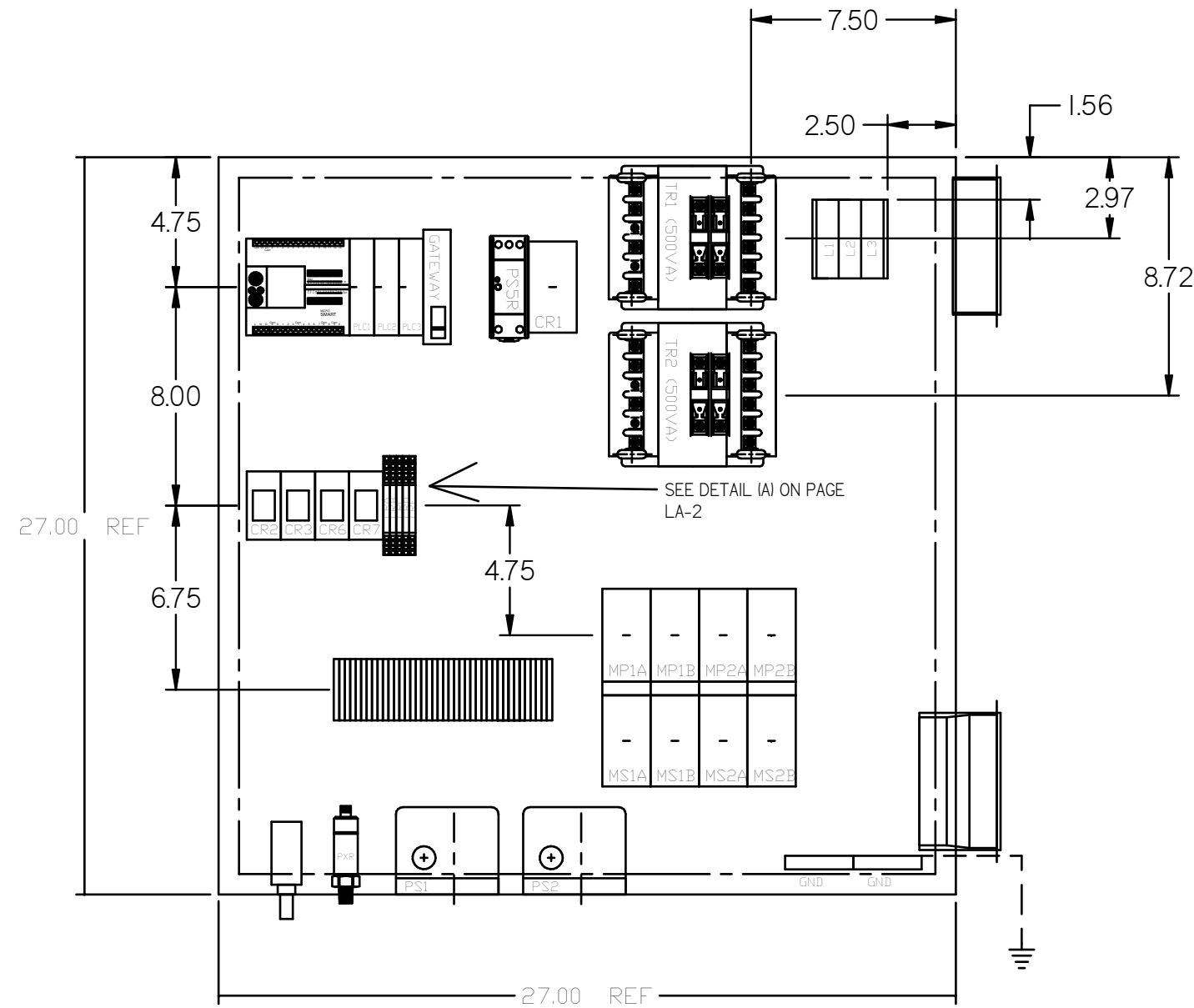
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX
HMI, NFPA

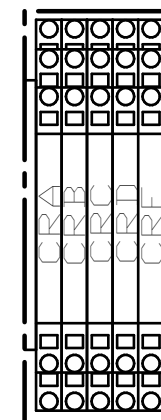
DWG. TYPE LAYOUT
DWG. NO. PXMI-S216X

SHEET	SIZE
L-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBLS CHANGED NAME FROM *S216A* TO *S216X*	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0225	JPG	AH



DETAIL (A)



OPTIONAL:	SINGLE CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSERVER	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
	SCROLL PUMPS	<input checked="" type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO. PXMI-S216X

SHEET	SIZE
L-2	B

TABLE 1

PANEL DATA 3Ø - 60 Hz 500VA CONTROL CIRCUIT					(B) BRANCH CIRCUIT PROTECTION - PROVIDED BY INSTALLER		
(A) LOAD SPECIFICATIONS					NONTIME 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)			
PXMIS216A2AJ	5(X2)	208V/3Ø	14.0	58	90A	70A	80A
PXMIS216A3AJ	5(X2)	230V/3Ø	12.7	53	80A	70A	80A
PXMIS216A4AJ	5(X2)	460V/3Ø	6.33	27.3	40A	35A	40A
PXMIS216E2AJ	7.5(X2)	208V/3Ø	19.2	80	125A	100A	110A
PXMIS216E3AJ	7.5(X2)	230V/3Ø	17.3	71.2	110A	90A	100A
PXMIS216E4AJ	7.5(X2)	460V/3Ø	8.67	37	60A	45A	50A
PXMIS216G2AJ	10(X2)	208V/3Ø	26.5	108	175A	150A	150A
PXMIS216G3AJ	10(X2)	230V/3Ø	24.0	98	150A	125A	150A
PXMIS216G4AJ	10(X2)	460V/3Ø	12.0	50	80A	60A	70A

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 FOR REQUIRMENTS.
 - 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-7.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
C-1	MOVE FAN TO RIGHT SIDE	01/22/13	PXEC_30	BFH	CHR
C-2	CHANGE TRANSDUCER TO PE000454AV	02/01/13	PXEC_33	BFH	CHR
D-1	CHANGED DATA TBL5 CHANGED NAME FROM *S216A* TO *S216X*	03/31/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	9/06/18	PXEC0225	JPG	AH

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:
BACNET, WEBSERVER



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DRAWN BY	BY EXAMINATION CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
 DUPLEX MED 10HP SCROLL
 HMI, NFPA

DWG. TYPE DATA

DWG. NO.
 PXMI-S216X W

SHEET
 D-1
 SIZE
 B

CONTROL TRANSFORMERS - 500VA					
FUSE TYPE		208 VOLT	230 VOLT	460 VOLT	575 VOLT
FU1,2A	FNQR	6A	5A	5A	4A
FU1,2B					
FU3A,B	ENM	7A	7A	7A	7A
SEE XFRMR FOR CONNECTIONS					

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-599	16-18AWG	RED/BLK
120VAC	W	16-18AWG	WHT/BLK
24VDC	600-999	16-18AWG	PURPLE
120VDC	701	16-18AWG	PURPLE
120VDC	-	VARIES	GREEN
120VDC	01-99	16-18AWG	YELLOW
CUSTOMER SUPPLY			