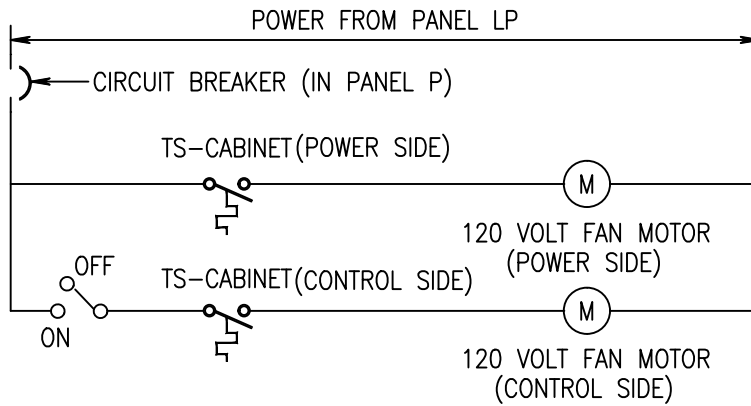


CABINET HEATER – ELECTRICAL CABINET



SUPPLY FAN – ELECTRICAL CABINET



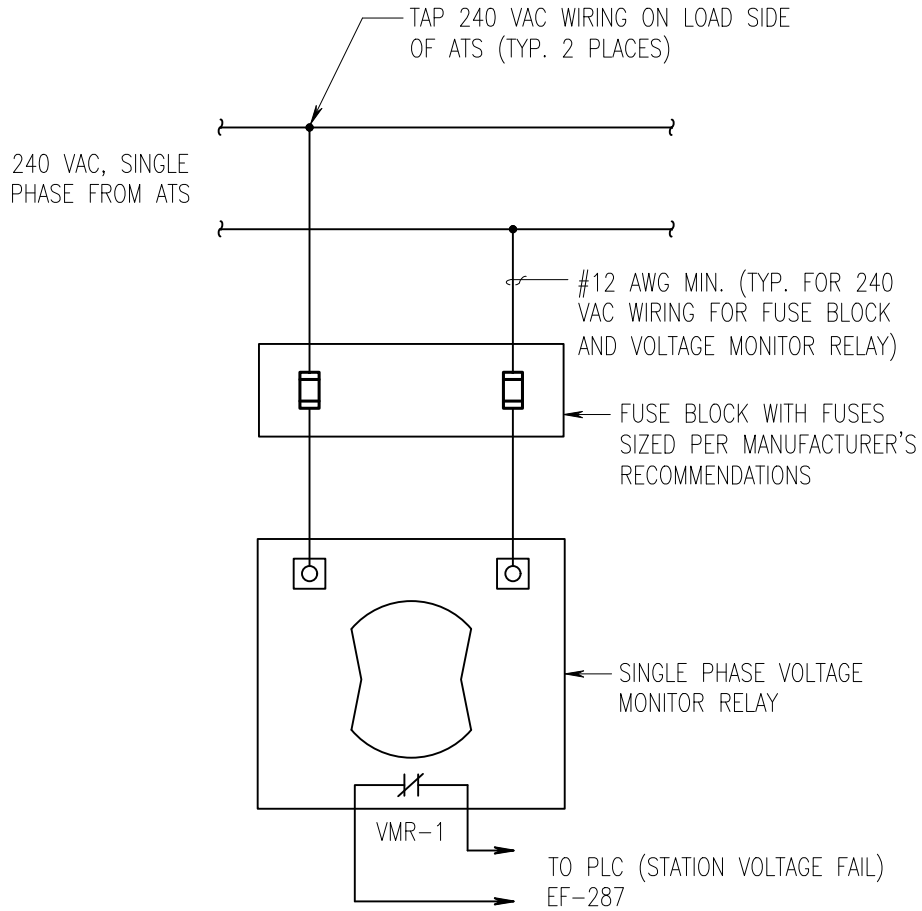
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

CABINET HEATER AND
SUPPLY FAN

DETAIL
I-1

DATE ISSUED:
4/25/2023



SINGLE PHASE VOLTAGE MONITOR RELAY ELEMENTARY

NOT TO SCALE



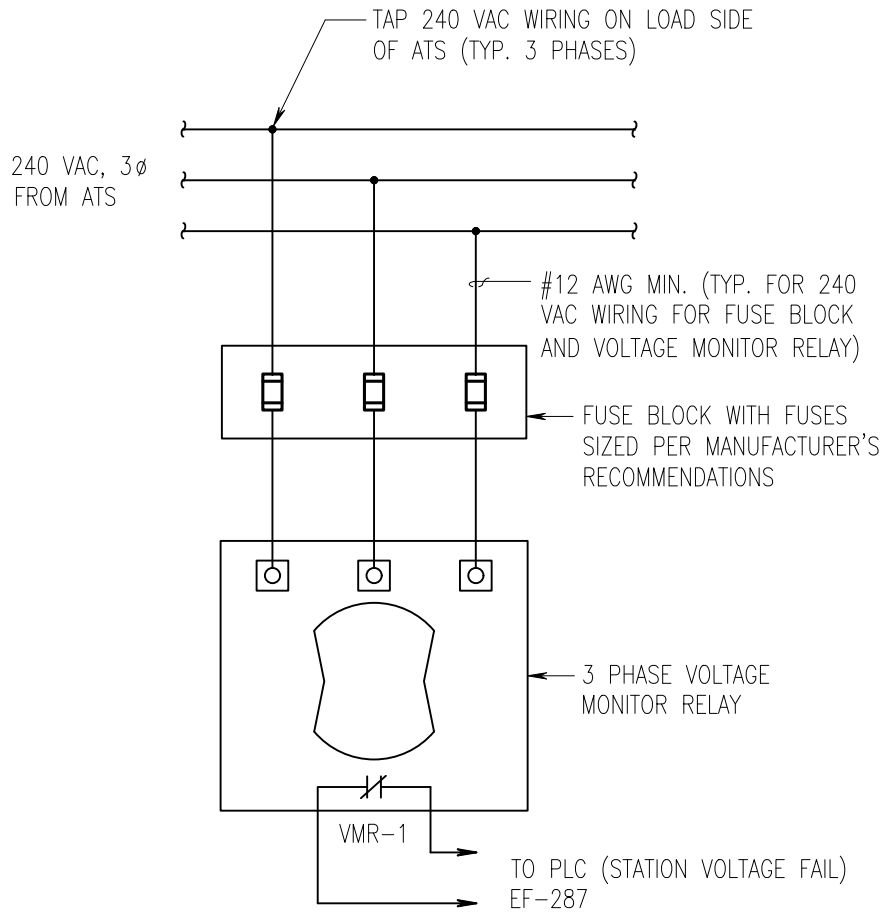
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

VOLTAGE MONITOR
RELAY ELEMENTARY
SINGLE PHASE

DETAIL
I-2

DATE ISSUED:
4/25/2023



THREE PHASE VOLTAGE MONITOR RELAY ELEMENTARY

NOT TO SCALE



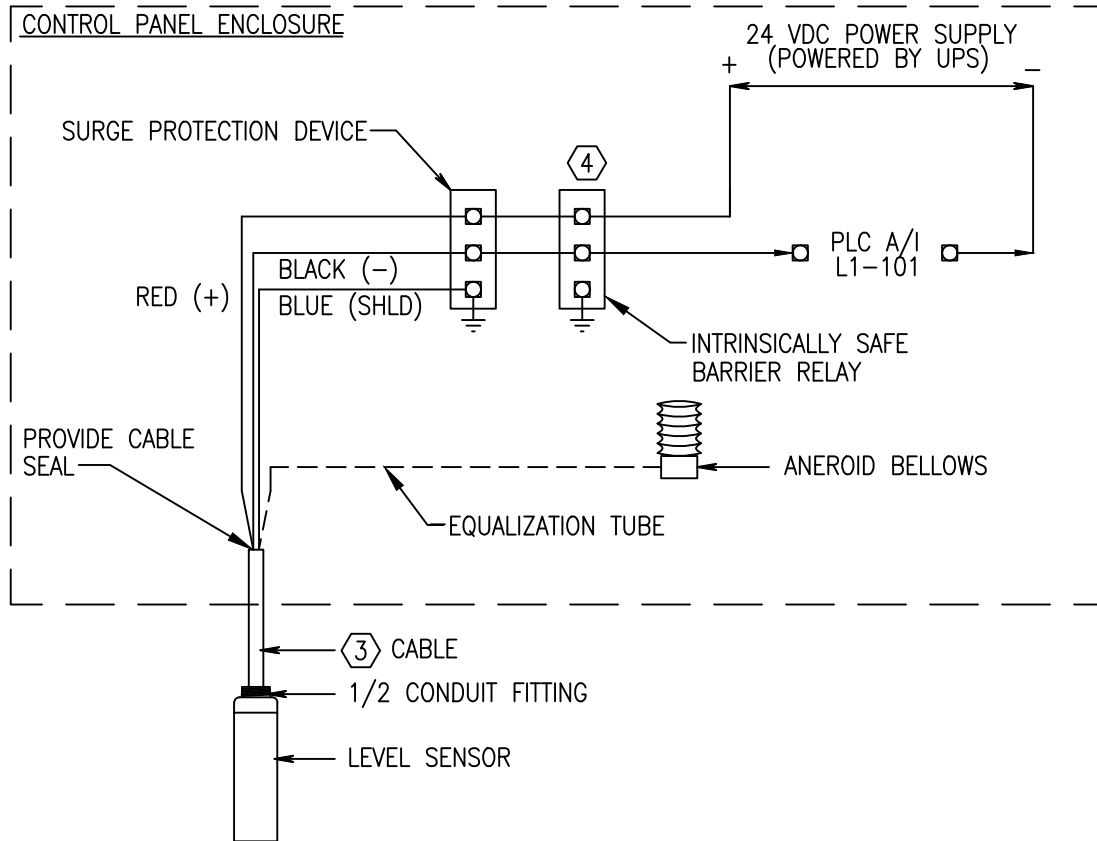
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

VOLTAGE MONITOR RELAY
ELEMENTARY
THREE PHASE

DETAIL
I-3

DATE ISSUED:
4/25/2023



LEVEL SENSOR – WET WELL ① ②
(4–20 Ma)

NOTES:

- ① ALL DISCRETE OUTPUTS FROM PLC SHALL BE PROVIDED WITH INTERPOSING RELAYS.
- ② PROVIDE CONTROL WIRING FOR PLC I/O AND CONDUIT AS REQUIRED BETWEEN EQUIPMENT AND PLC I/O MODULES IN CONTROL PANEL.
- ③ PROVIDE MANUFACTURERS CABLE OF SUFFICIENT LENGTH TO EXTEND TO OPEN AIR JUNCTION BOX WITHOUT SPLICES. PROVIDE ANEROID BELLOWS IN OPEN AIR JUNCTION BOX FOR PRESSURE EQUALIZATION. REFER TO ELECTRICAL TERMINATORS, CONDUITS, AND BASES DETAIL.
- ④ MOUNT ISBRS TOGETHER IN CONTROL PANEL, AND PROVIDE PHYSICAL BARRIER BETWEEN INTRINSICALLY SAFE CIRCUITS AND ALL OTHER WIRING. PROVIDE LABEL FOR INTRINSICALLY SAFE CIRCUIT SECTION AT PHYSICAL BARRIER.



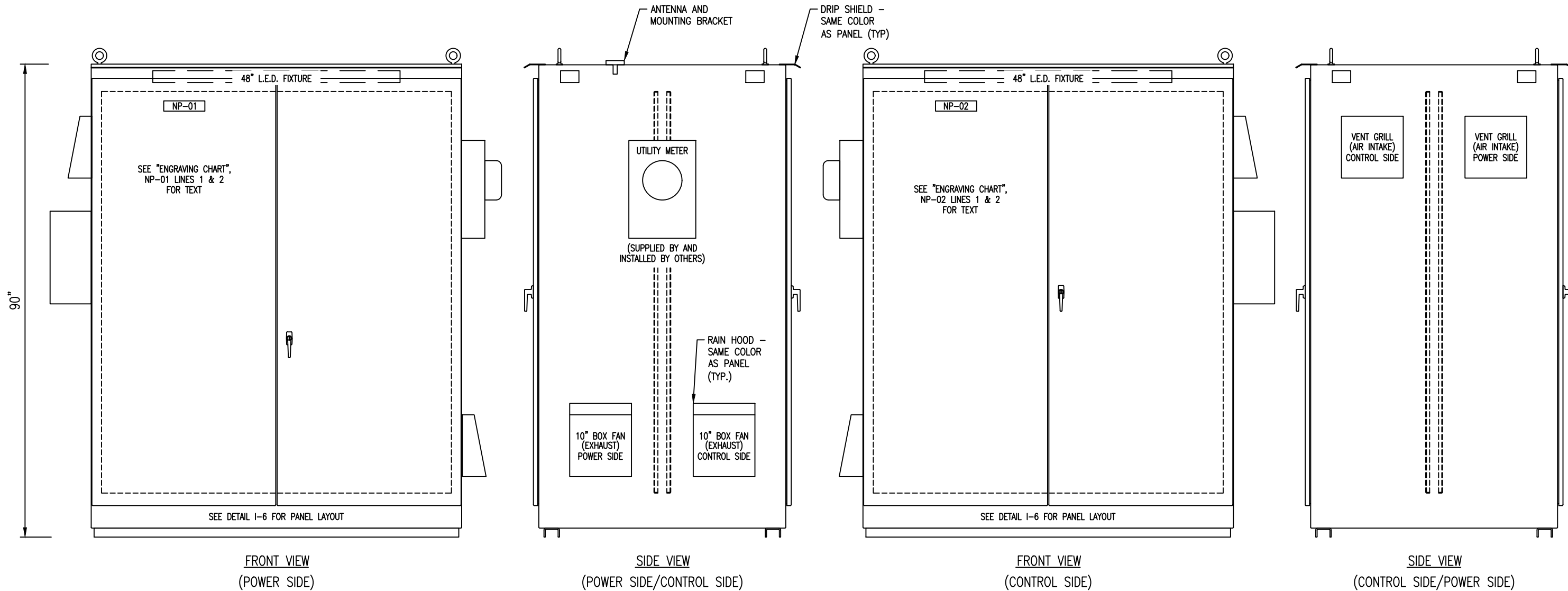
SUSSEX COUNTY
ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

WET WELL
LEVEL SENSOR

DETAIL
I-4

DATE ISSUED:
4/25/2023



ENGRAVING CHART				
REF.	NAME PLATE SIZE (W x H)	TEXT HEIGHT	LINE	TEXT
NP-01	8" x 2"	1/2"	L1	[NAME] PUMP STATION
			L2	POWER EQUIPMENT CABINET
NP-02	8" x 2"	1/2"	L1	[NAME] PUMP STATION
			L2	CONTROL EQUIPMENT CABINET

NOTES:
1. NAMEPLATES: WHITE LAMICOID (2-PLY) WITH BLACK ENGRAVED LETTERS.
2. ATTACH WITH S.S. DRIVE SCREWS (COAT REAR OF SCREW WITH SILICON SEAL).

NOTES:

- CONSTRUCTION: NEMA 3R (MODIFIED NEMA 12).
 - ENCLOSURE/DOORS/DRIP SHIELDS: ALUMINUM.
 - SUB PANEL: ALUMINUM.
 - PADLOCKING HANDLE: L36 STAINLESS STEEL.
 - CHANNEL (ON BOTTOM OF ENCLOSURE): ALUMINUM, 1.50"H x 3.00"W.
 - DOOR STOPS: ON BOTTOM OF EACH DOOR.
- FINISH:
 - ENCLOSURE/DOORS/DRIP SHIELDS: S-102 ALMOND PAINT.
 - SUB PANEL: WHITE PAINT.
- ANTENNA SHALL BE PANORAMA LPAM-BC3G-26-3SP WITH COMPATIBLE MOUNTING BRACKET.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED:

James Chedler
SUSSEX COUNTY ENGINEER

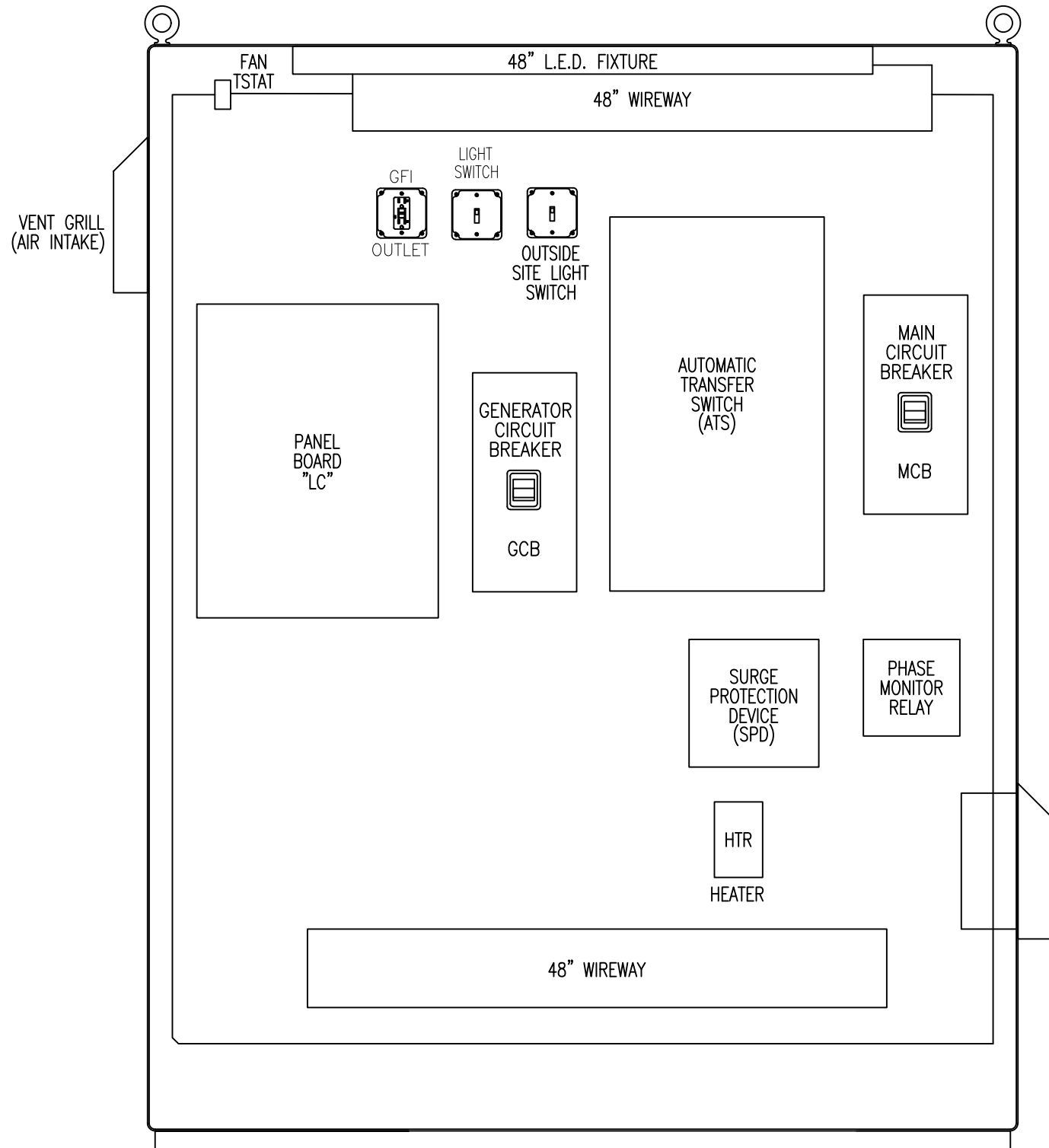
POWER AND CONTROL CABINET ARRANGEMENT
SINGLE PHASE SERVICE

DETAIL

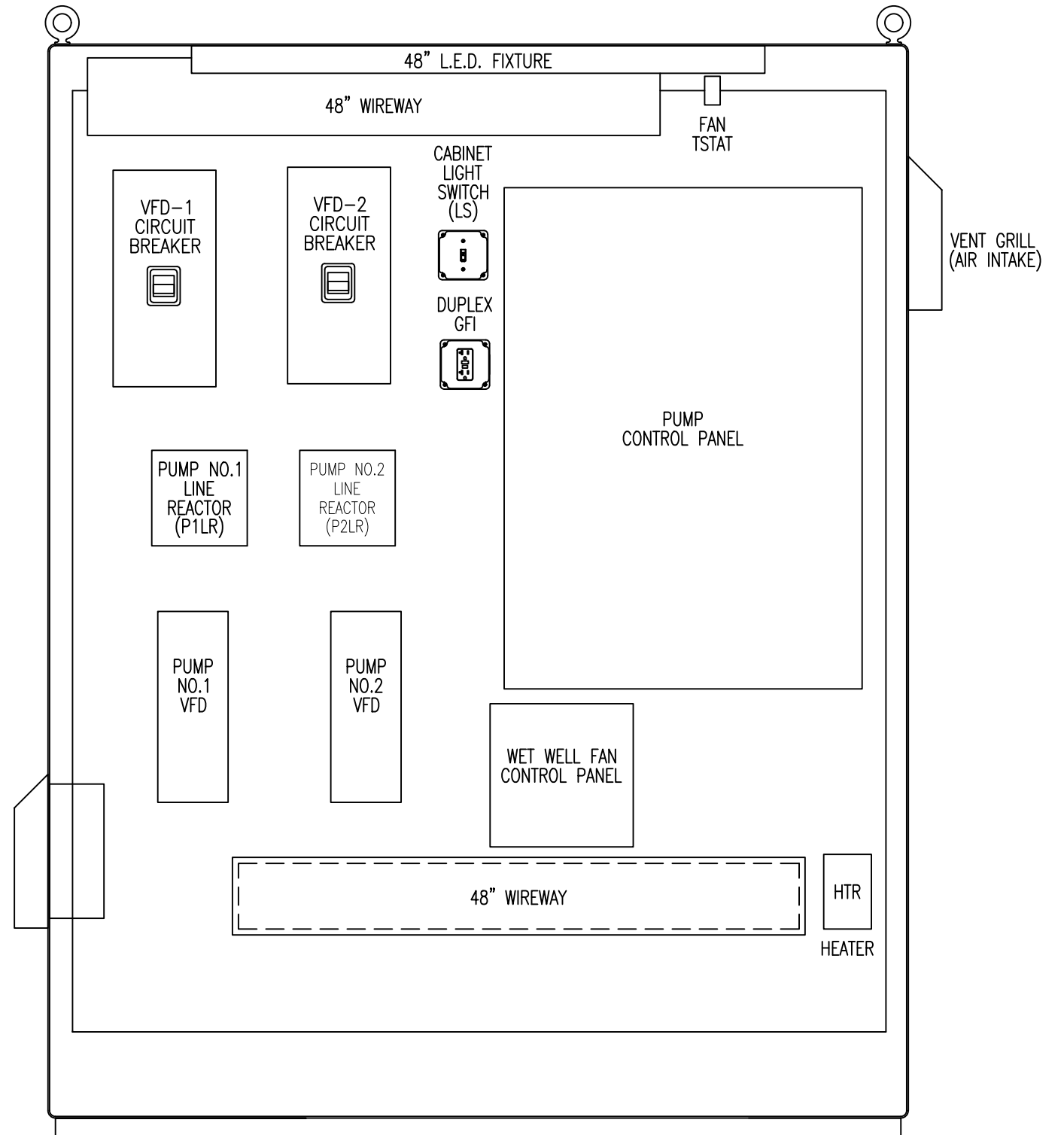
I-5

LAST REVISED:

4/25/2023



SUB-PANEL LAYOUT
(POWER SIDE)



SUB-PANEL LAYOUT
(CONTROL SIDE)

10" BOX FAN
(EXHAUST)



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
SUSSEX COUNTY ENGINEER

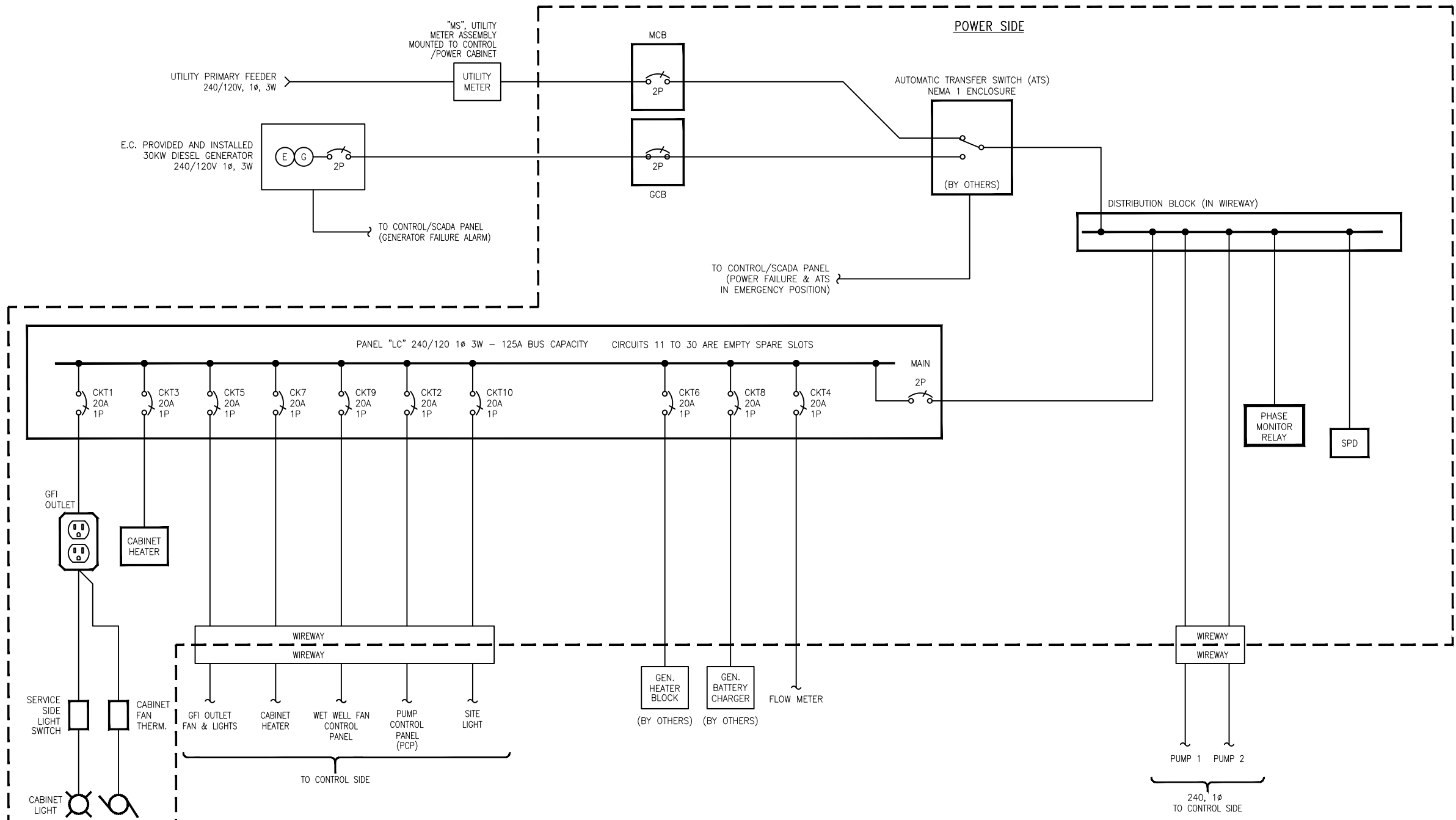
POWER AND CONTROL EQUIPMENT ARRANGEMENT
SINGLE PHASE SERVICE

DETAIL

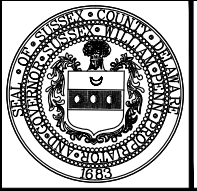
I-6

LAST REVISED:

4/25/2023



- NOTES:**
1. FLOW METER INCLUDED ONLY WHEN PUMP STATION DISCHARGES INTO PRIMARY FORCE MAIN LEADING TO SEWAGE TREATMENT PLANT.
 2. ALL PUMPS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



SUSSEX COUNTY ENGINEERING DEPARTMENT

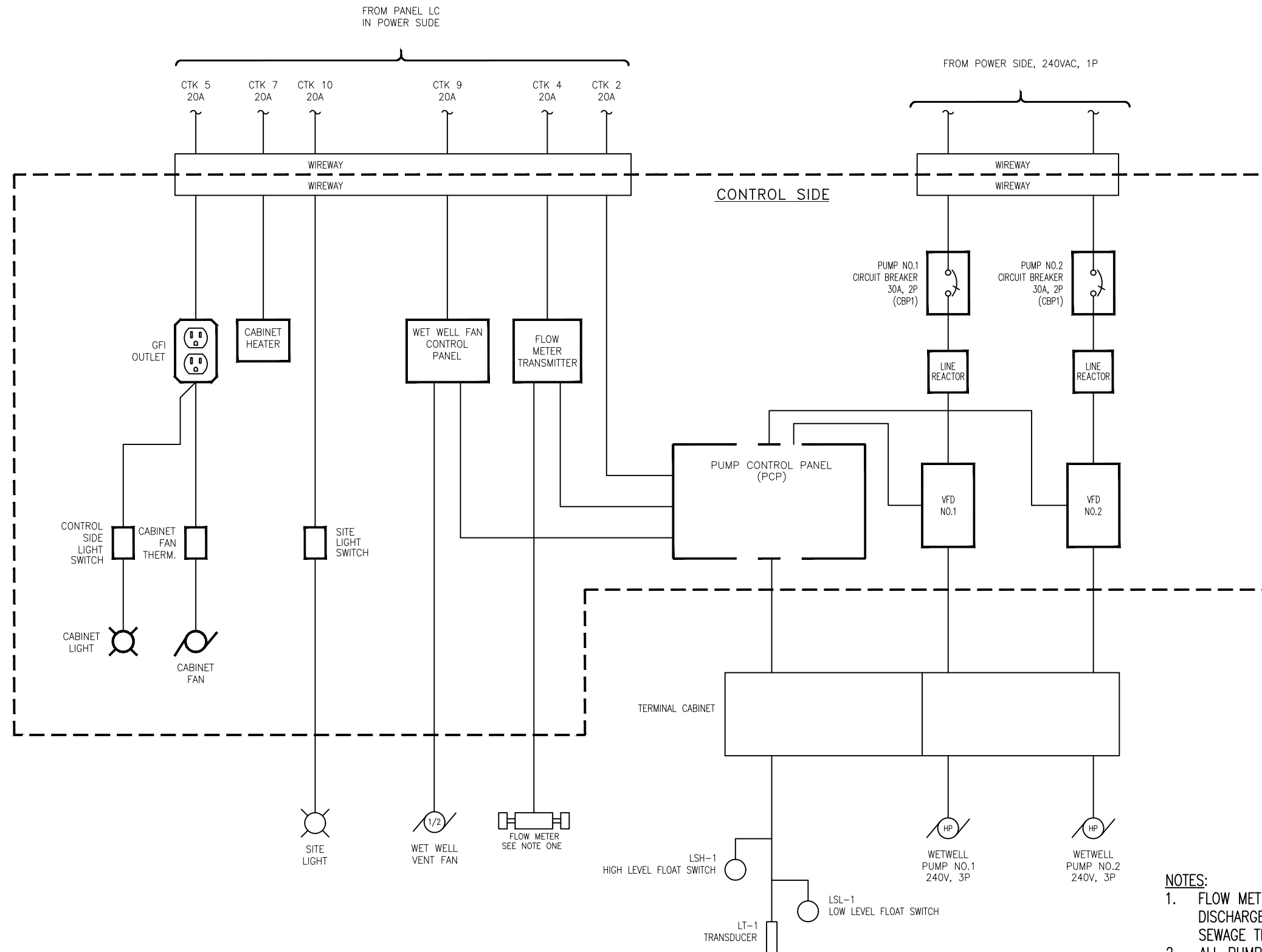
APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

POWER EQUIPMENT CABINET WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL

I-7

LAST REVISED:
4/25/2023



- NOTES:**
1. FLOW METER INCLUDED ONLY WHEN PUMP STATION DISCHARGES INTO PRIMARY FORCE MAIN LEADING TO SEWAGE TREATMENT PLANT.
 2. ALL PUMPS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
SUSSEX COUNTY ENGINEER

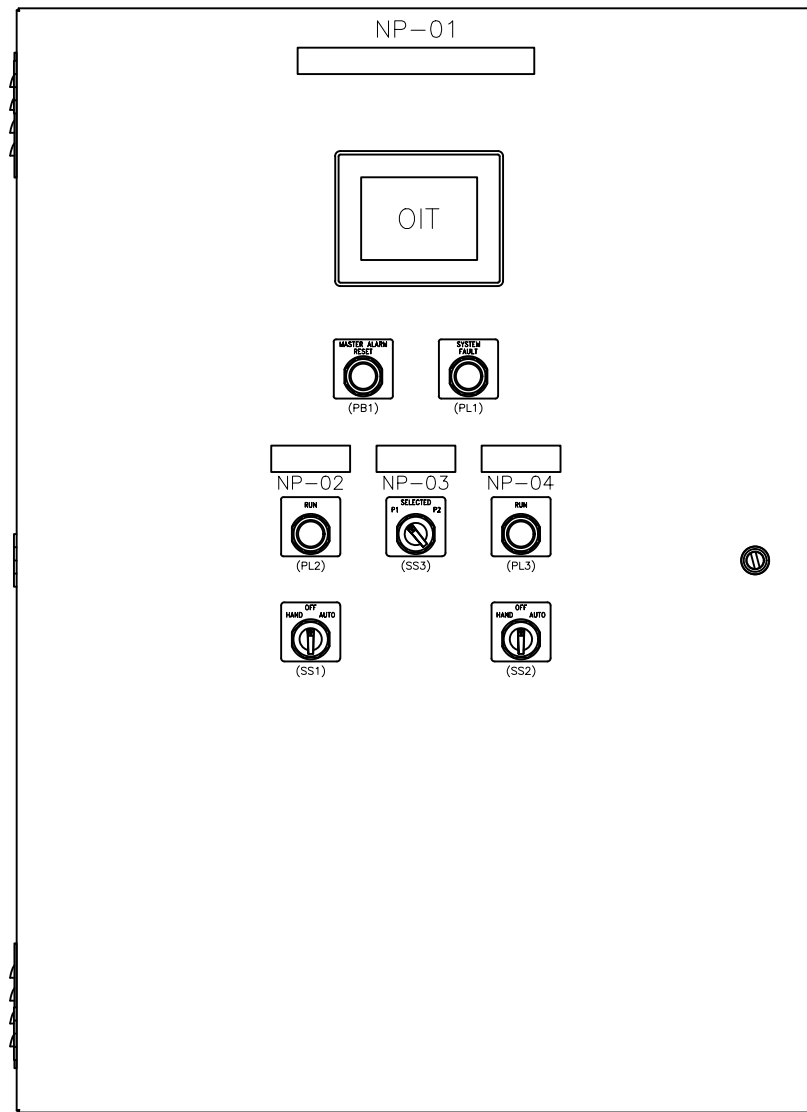
CONTROL EQUIPMENT CABINET WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL

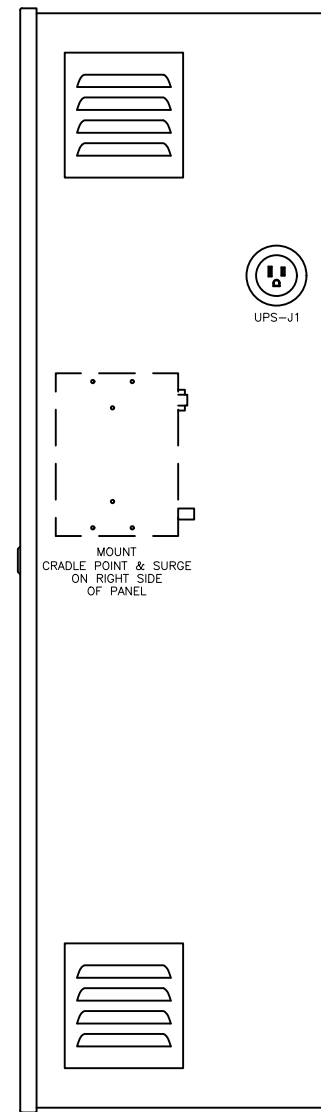
I-8

LAST REVISED:

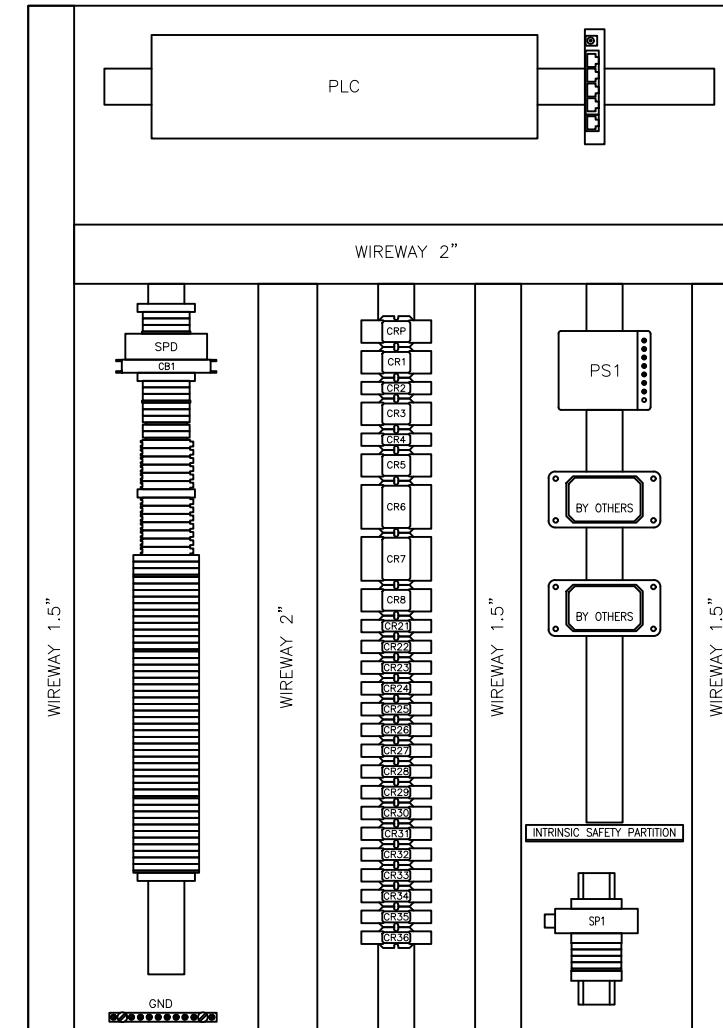
4/25/2023



ENCLOSURE – FRONT VIEW
(42”H x 30”W x 12”D)



SIDE VIEW



SUB PANEL
(39”H x 27”W)

ENGRAVING CHART				
REF.	NAME PLATE SIZE	TEXT HEIGHT	LINE	TEXT
NP-01	8" x 1"	1/2"	L1	PUMP CONTROL PANEL
NP-02	4" x 1"	3/8"	L1	PUMP 1
NP-03	4" x 1"	3/8"	L1	FLOAT SYSTEM
NP-04	4" x 1"	3/8"	L1	PUMP 2

NOTES:
 1. NAMEPLATES: WHITE LAMICOID (2-PLY) WITH BLACK ENGRAVED LETTERS.
 2. ATTACH WITH S.S. DRIVE SCREWS (COAT REAR OF SCREW WITH SILICON SEAL).

NOTES:

- CONSTRUCTION: WALL MOUNTED, NEMA 12 ENCLOSURE
 A. ENCLOSURE: 14 GAUGE STEEL
 B. SUB PANEL: 12 GAUGE STEEL
- FINISH:
 A. ENCLOSURE: INTERIOR & EXTERIOR ANSI 61 GRAY ENAMEL OVER PHOSPHATIZED SURFACES
 B. SUB-PANEL: WHITE ENAMEL
- CONFIRM SERVICE AVAILABILITY WITH POWER COMPANY.
- CELLULAR MODEM DEVICE SHALL BE CRADLE POINT PART #TB5-650C150M-NON. (PROVIDED BY SUSSEX COUNTY)



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
 SUSSEX COUNTY ENGINEER

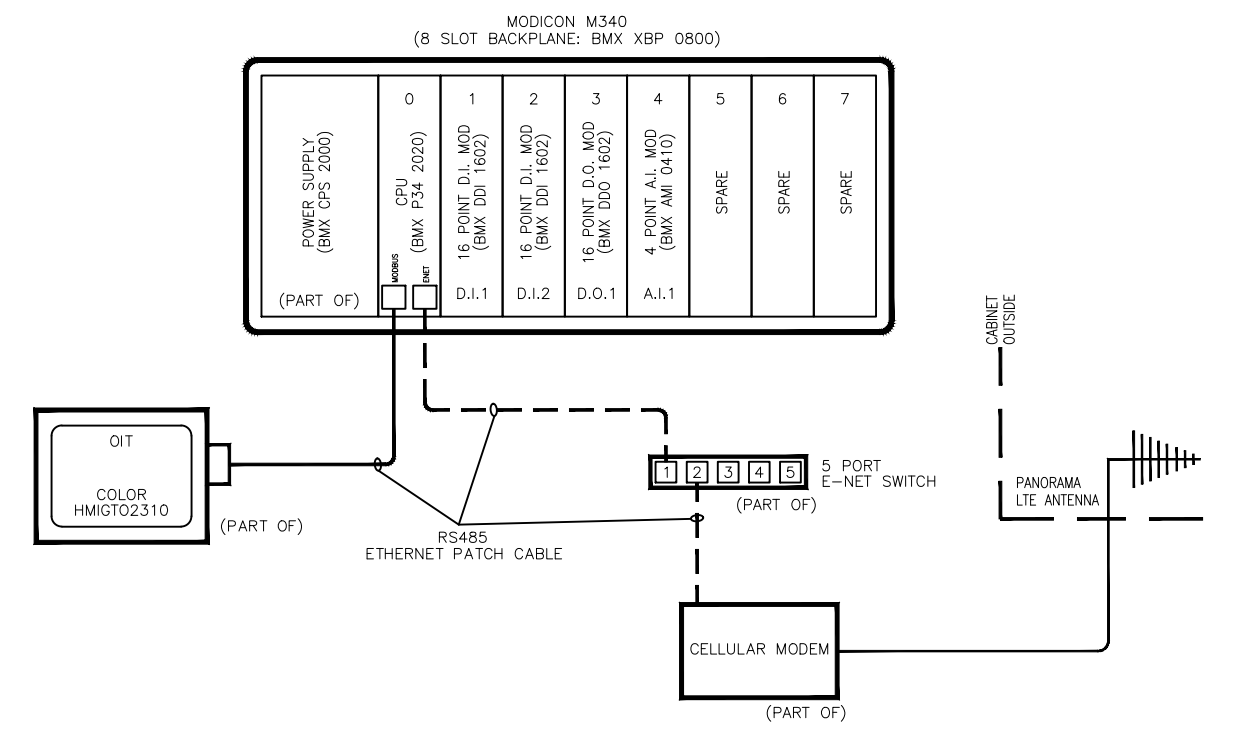
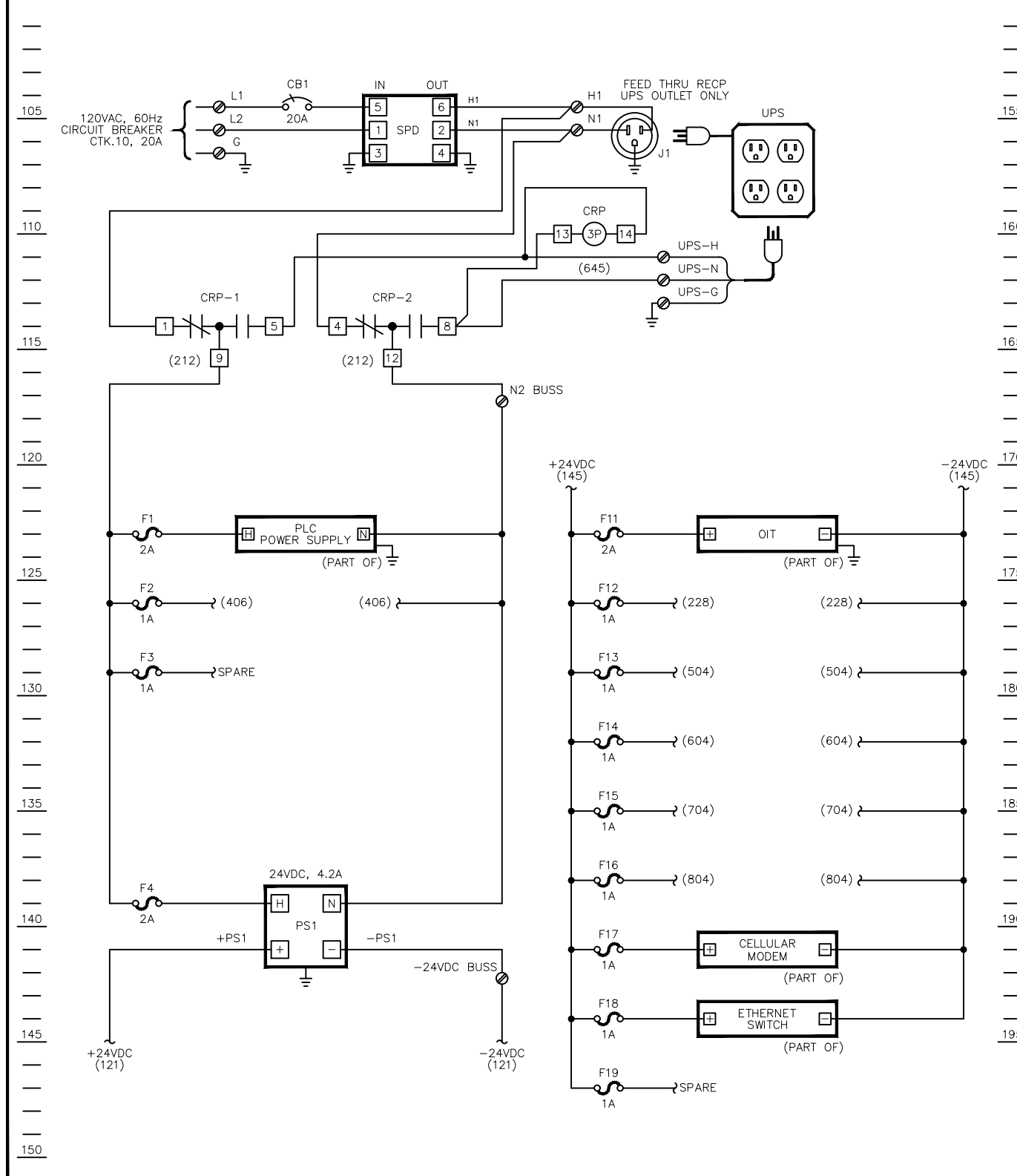
PUMP CONTROL PANEL LAYOUT
 SINGLE PHASE SERVICE

DETAIL

I-9

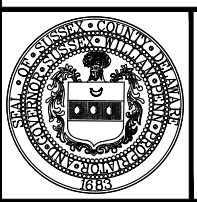
LAST REVISED:

4/25/2023



- NOTES:
1. PLASTIC WIRE WRAPS SHALL BE USED TO BUNDLE WIRES EXCEPT WITHIN WIRING DUCTS, BUNDLES WILL BE SECURELY FASTENED TO STEEL STRUCTURE.
 2. WIRE TO BE STRANDED COPPER, INSULATED FOR NOT LESS THAN 600 VOLTS WITH A MOISTURE-RESISTANT AND FLAME RETARDANT COVERING.
 3. CONTROL CIRCUIT WIRING TO BE 16 AWG MINIMUM. ANALOG CIRCUIT WIRING TO BE 18 AWG TWISTED SHIELDED PAIRS.
 4. WIRE NUMBERS ARE TO AGREE WITH THE TERMINAL NUMBERS UNLESS OTHERWISE SHOWN. ALL PLC INPUT & OUTPUT ADDRESS NUMBERS TO BE USED AS WIRE NUMBERS.
 5. SPARE TERMINAL NUMBERS: BLANK
 6. BOTH ENDS OF ALL WIRES SHALL BE MARKED PER WIRING DIAGRAMS.
 7. WIRE COLORS

AC PHASE	BLACK
AC NEUTRAL.....	WHITE
GROUND.....	GREEN
AC CONTROL (PANEL POWERED).....	RED
AC CONTROL (FIELD POWERED).....	YELLOW
DC CONTROL.....	ORANGE
(+) 24VDC.....	BLUE
(-) 24VDC.....	BROWN
DC SIGNAL (ANALOG).....	2/C SHIELD
	(+) RED
	(-) BLACK
4. CELLULAR MODEM DEVICE SHALL BE CRADLE POINT PART #TB5-650C150M-NON. (PROVIDED BY SUSSEX COUNTY)
5. DETAILS I-10 THRU I-17 REPRESENT TYPICAL WIRING DIAGRAMS FOR A SINGLE PHASE PUMP STATION CONTROL PANEL. ANY DEVIATIONS NECESSARY DUE TO SPECIFIC PUMP STATION REQUIREMENTS MUST BE APPROVED BY SUSSEX COUNTY.
6. CONFIRM SERVICE AVAILABILITY WITH POWER COMPANY.
7. UPS SHALL BE PART SMT750C, AS SUPPLIED BY APC.

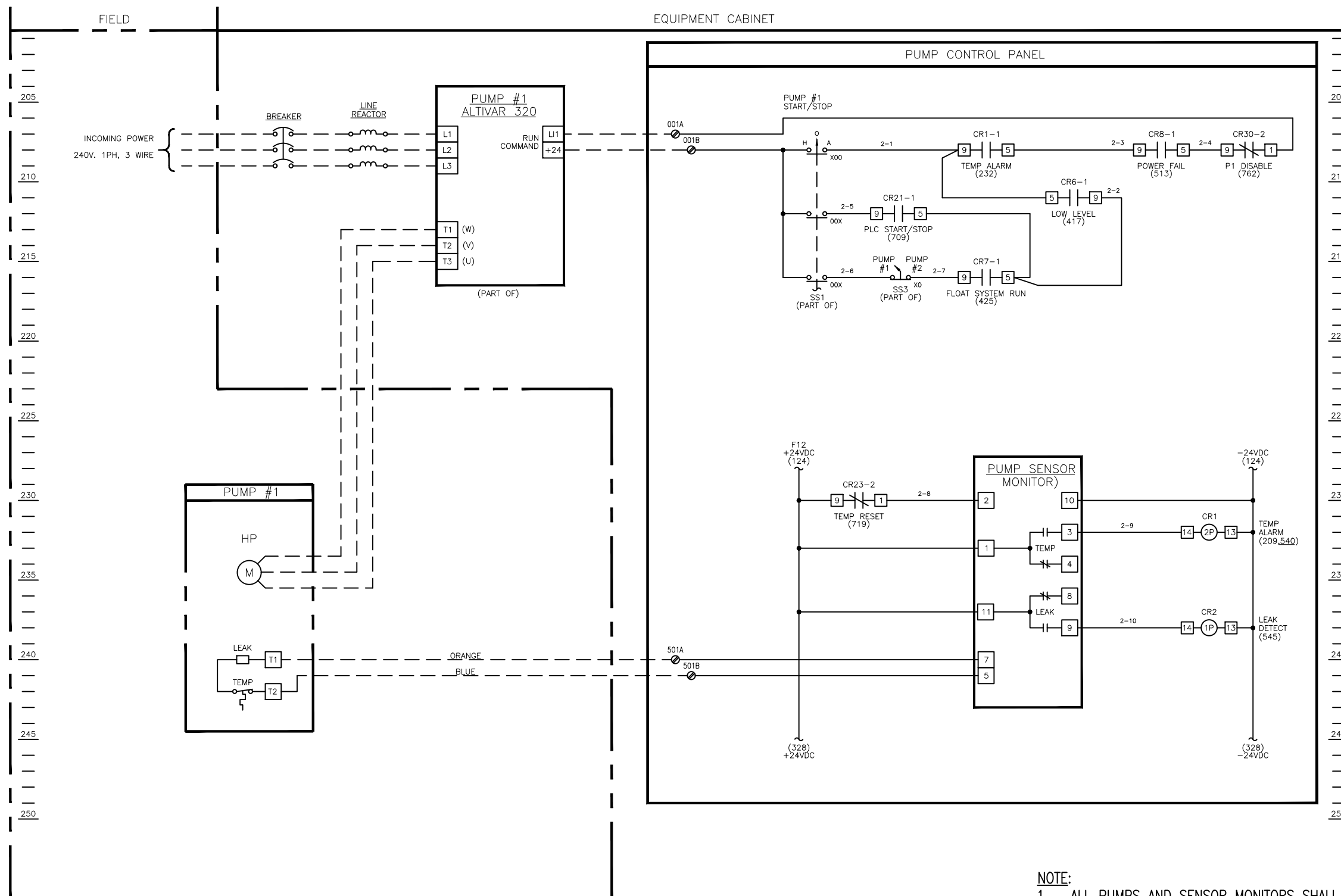


SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

PUMP CONTROL PANEL WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL
I-10
LAST REVISED:
4/25/2023



NOTE:
 1. ALL PUMPS AND SENSOR MONITORS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
 SUSSEX COUNTY ENGINEER

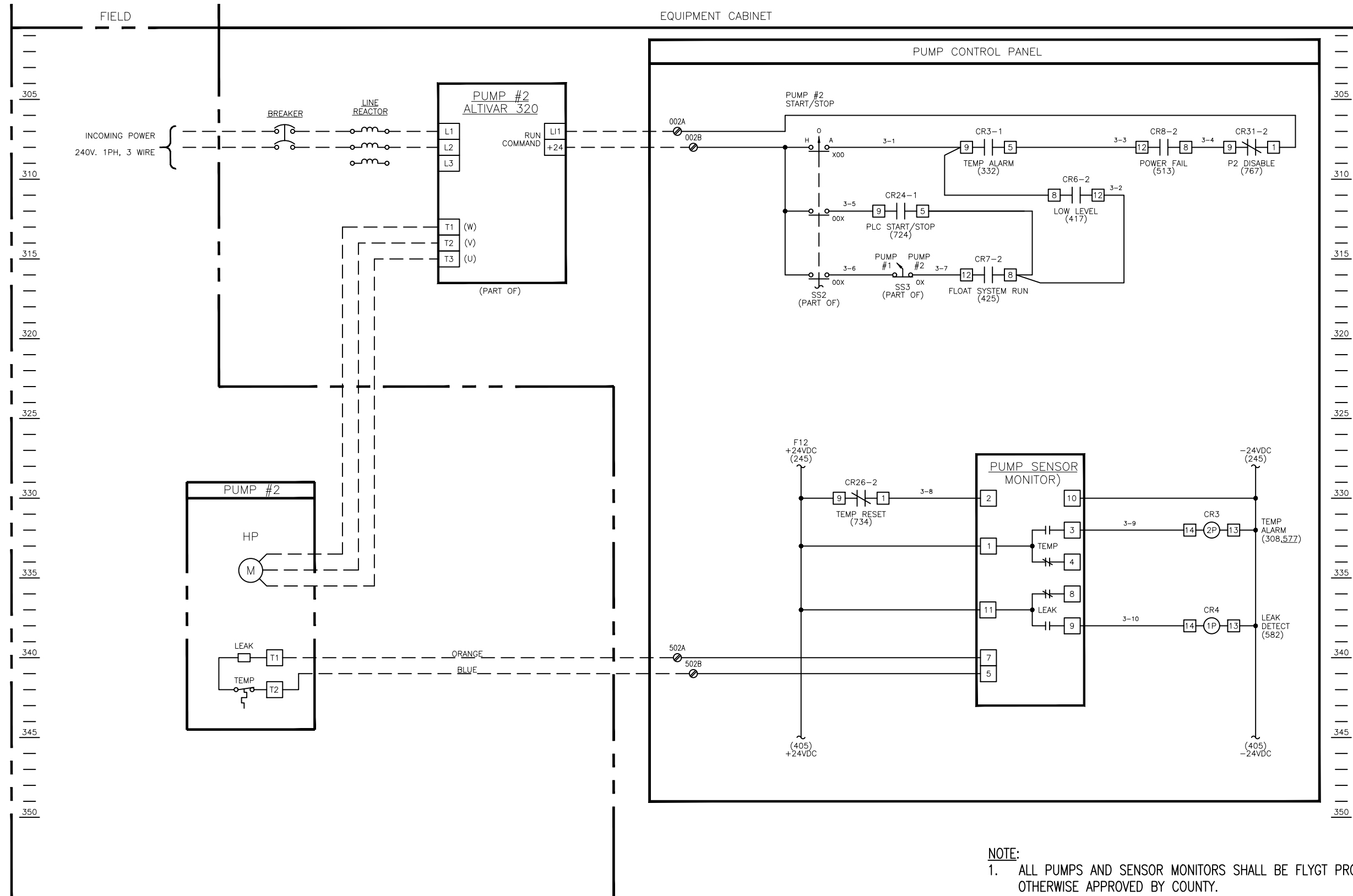
PUMP CONTROL PANEL WIRING DIAGRAM
 SINGLE PHASE SERVICE

DETAIL

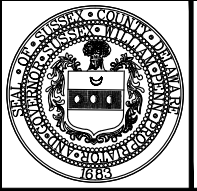
I-11

LAST REVISED:

4/25/2023



NOTE:
 1. ALL PUMPS AND SENSOR MONITORS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
 SUSSEX COUNTY ENGINEER

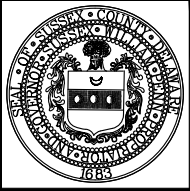
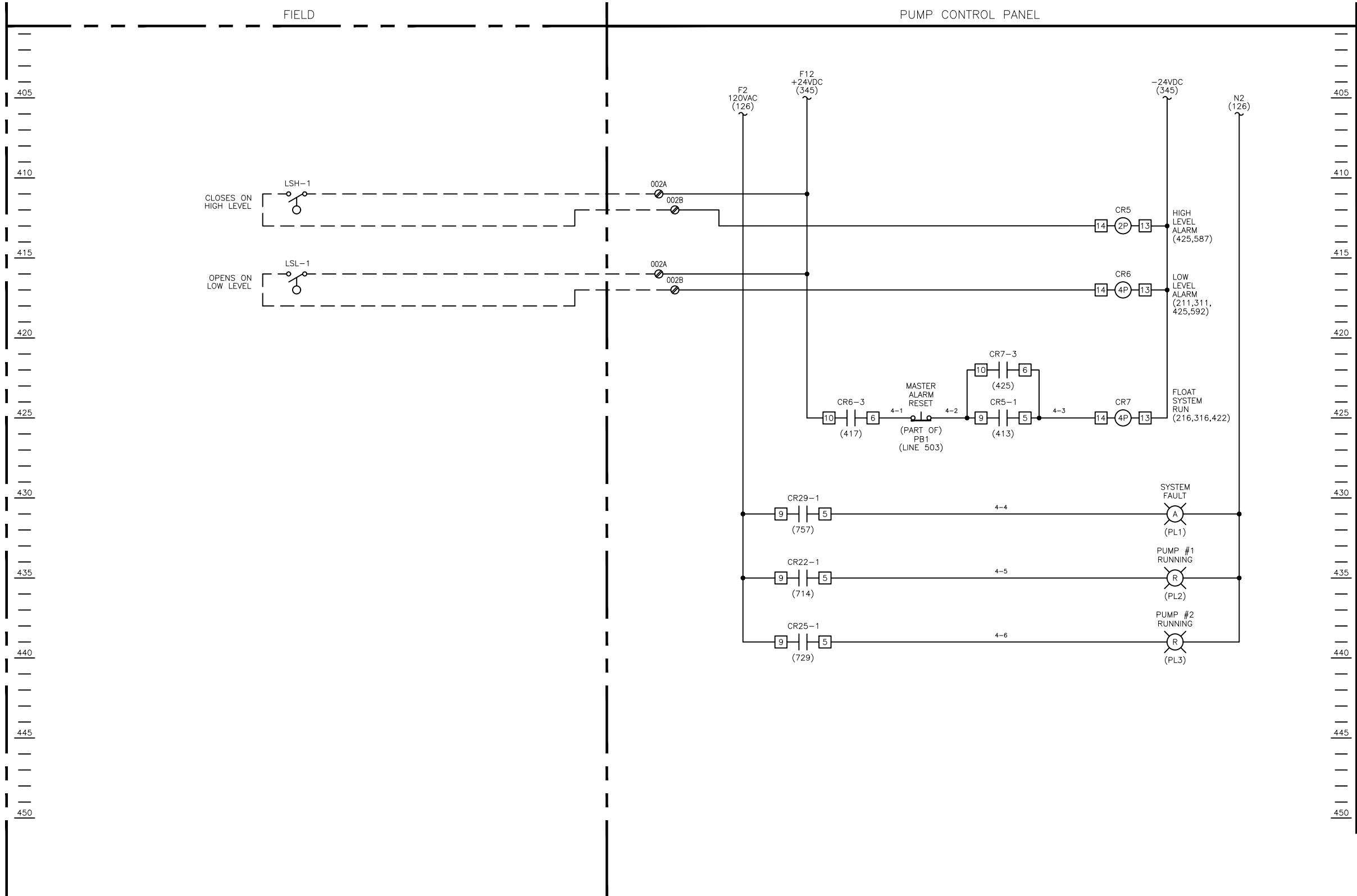
PUMP CONTROL PANEL WIRING DIAGRAM
 SINGLE PHASE SERVICE

DETAIL

I-12

LAST REVISED:

4/25/2023



SUSSEX COUNTY ENGINEERING DEPARTMENT

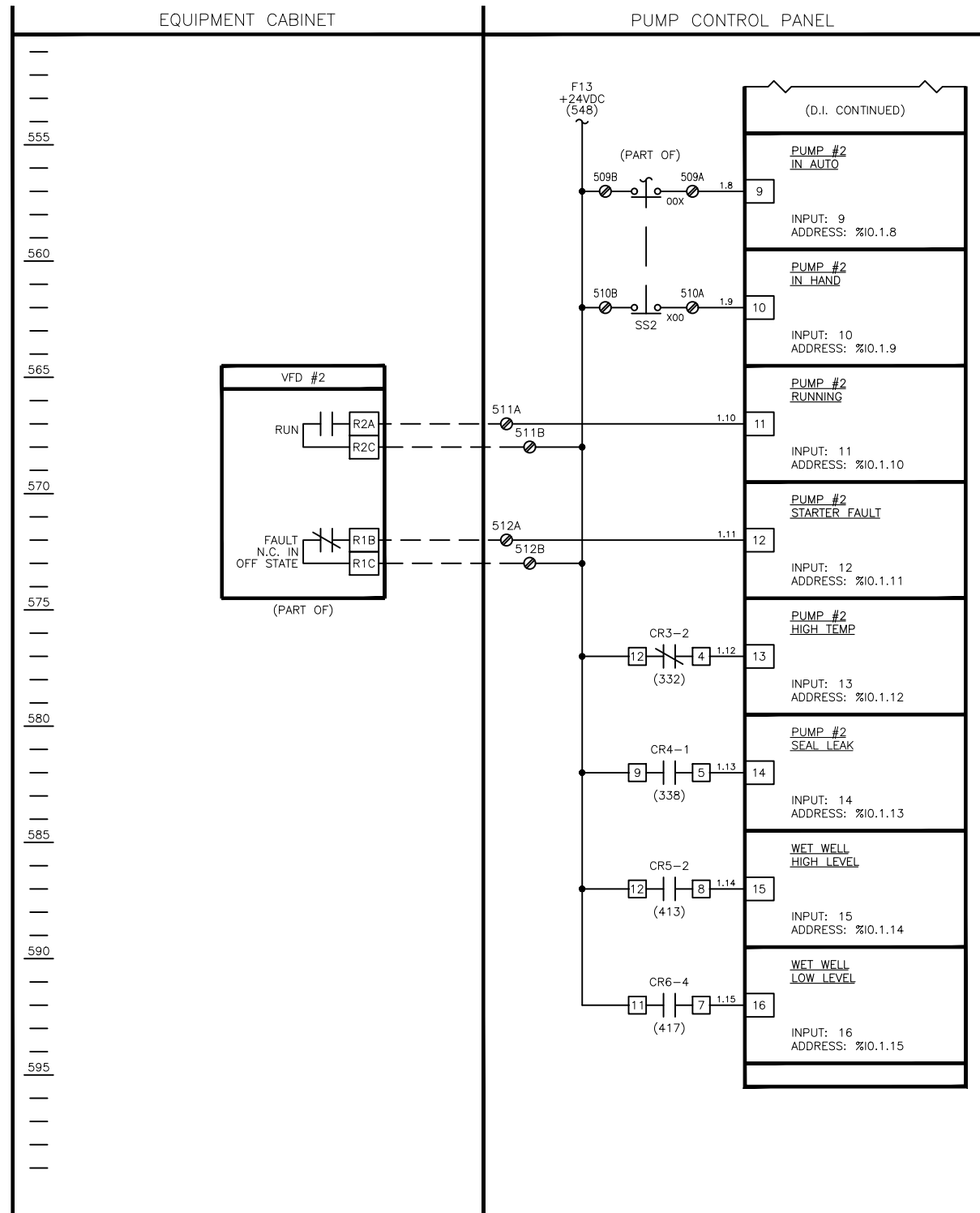
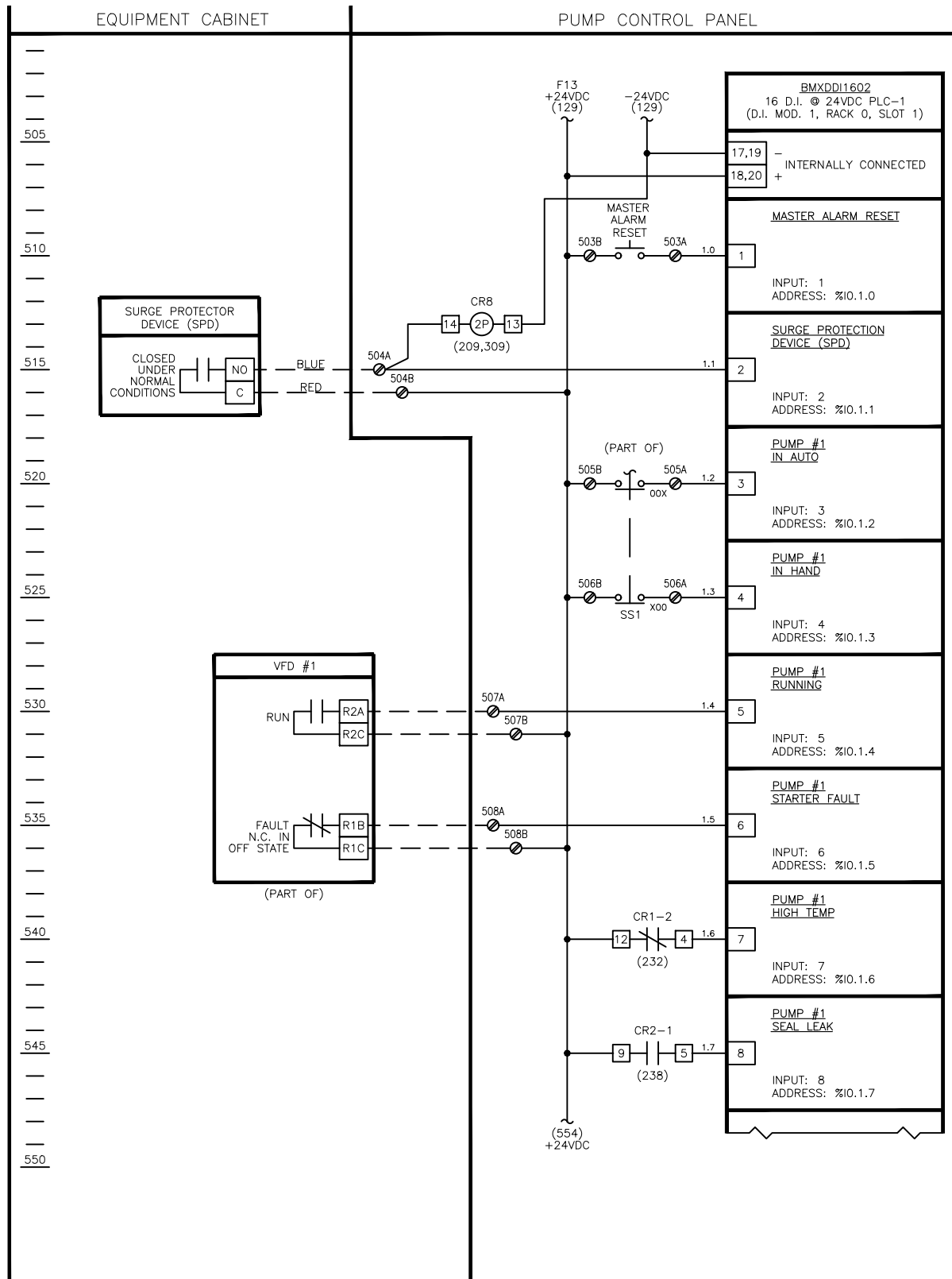
APPROVED: *James Chedler*
SUSSEX COUNTY ENGINEER

PUMP CONTROL PANEL WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL

I-13

LAST REVISED:
4/25/2023



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
SUSSEX COUNTY ENGINEER

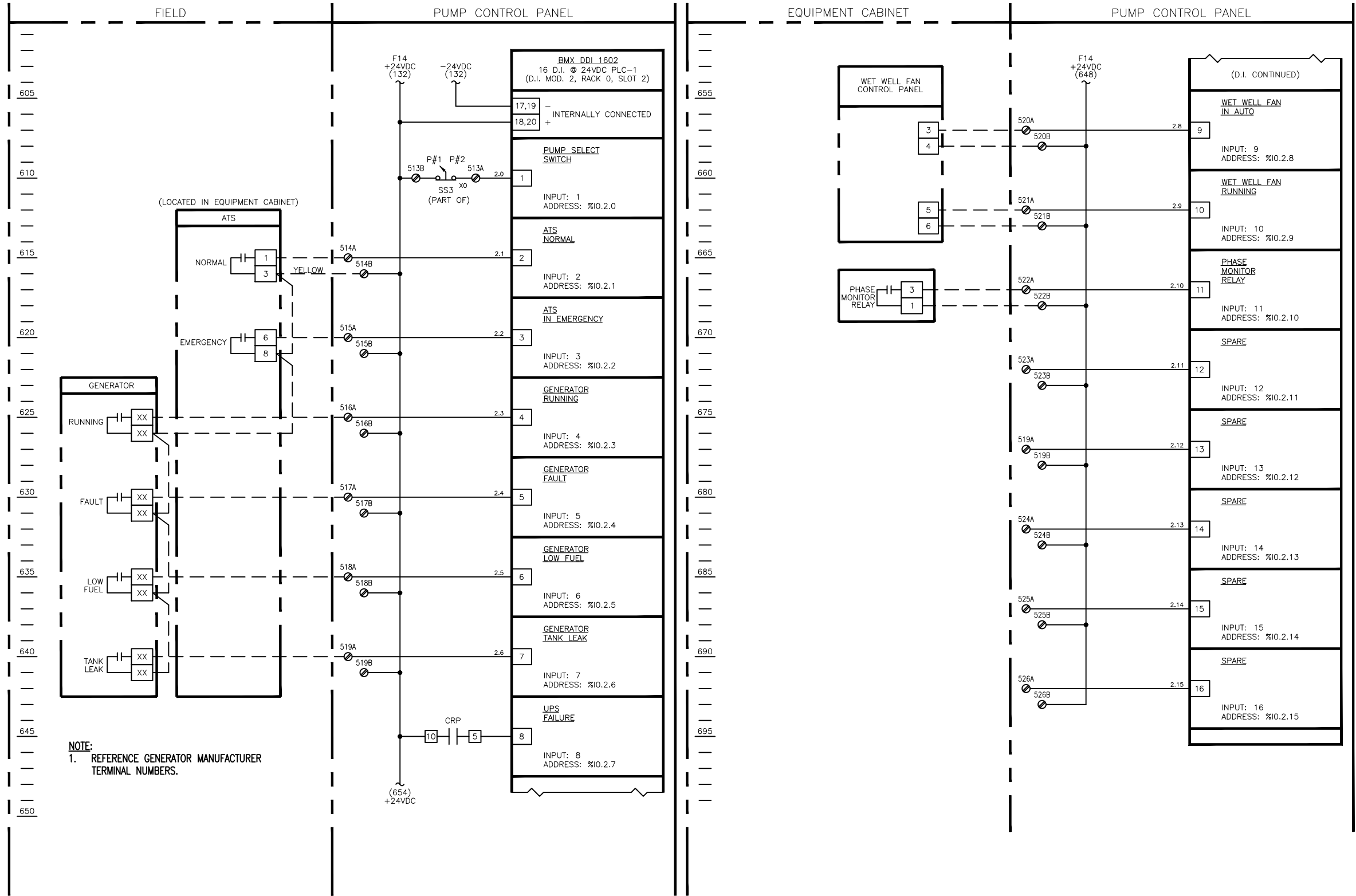
PUMP CONTROL PANEL WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL

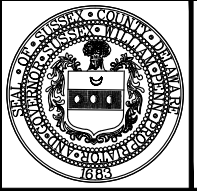
I-14

LAST REVISED:

4/25/2023



NOTE:
1. REFERENCE GENERATOR MANUFACTURER TERMINAL NUMBERS.

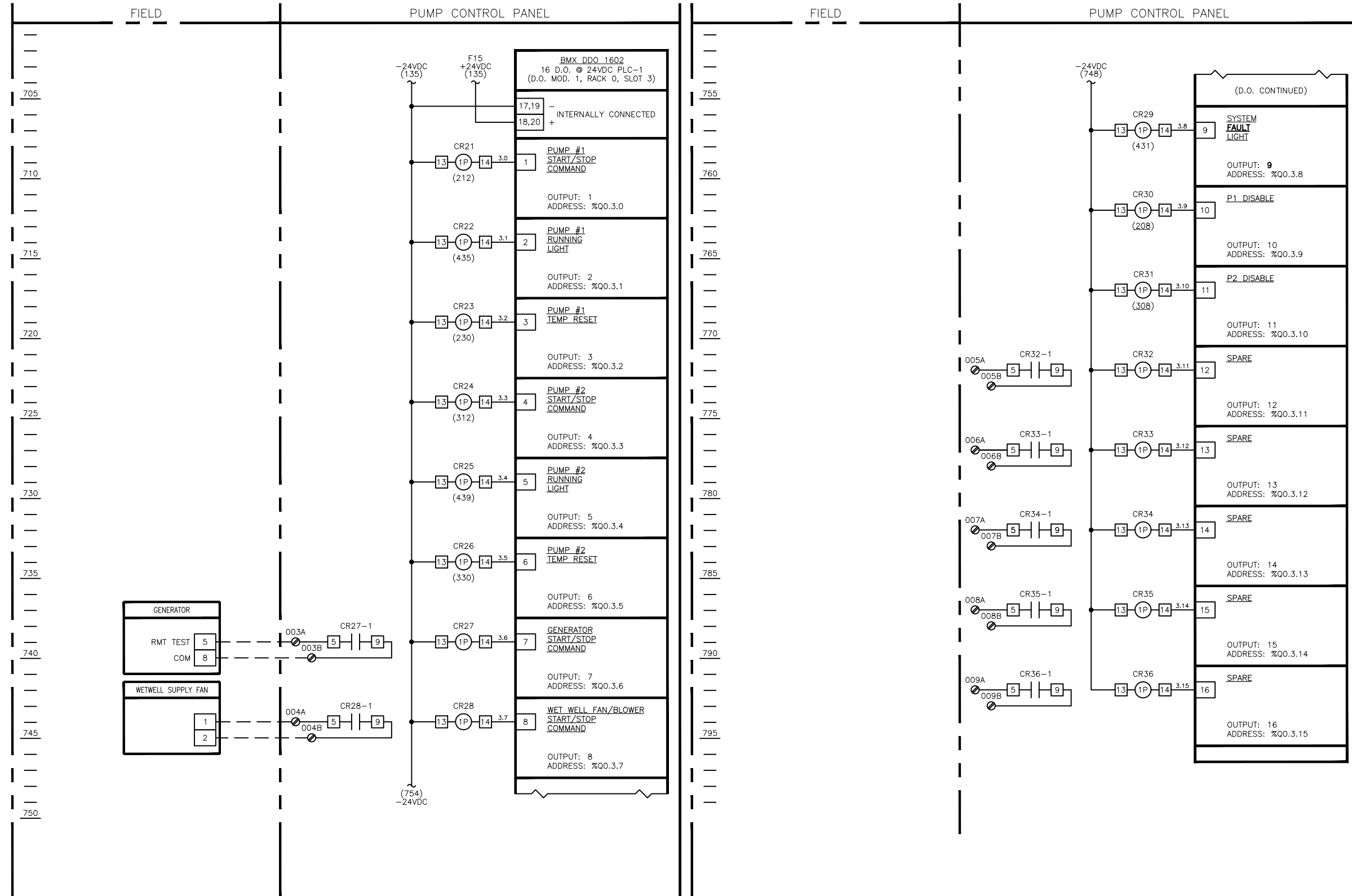


SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
SUSSEX COUNTY ENGINEER

PUMP CONTROL PANEL WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL
I-15
LAST REVISED:
4/25/2023



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
SUSSEX COUNTY ENGINEER

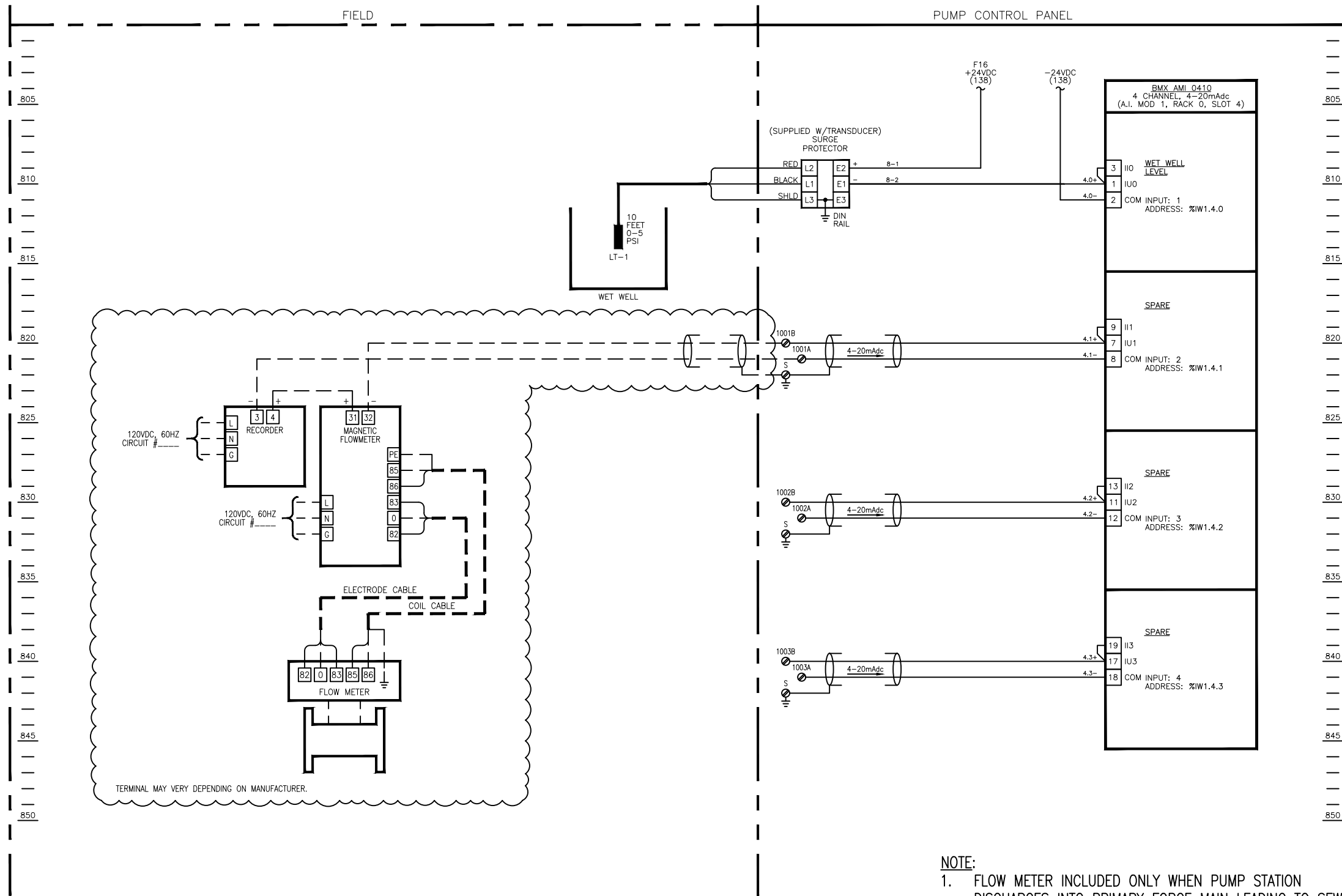
PUMP CONTROL PANEL WIRING DIAGRAM
SINGLE PHASE SERVICE

DETAIL

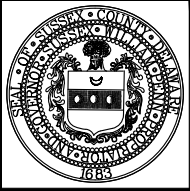
I-16

LAST REVISED:

4/25/2023



NOTE:
 1. FLOW METER INCLUDED ONLY WHEN PUMP STATION DISCHARGES INTO PRIMARY FORCE MAIN LEADING TO SEWAGE TREATMENT PLANT.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
 SUSSEX COUNTY ENGINEER

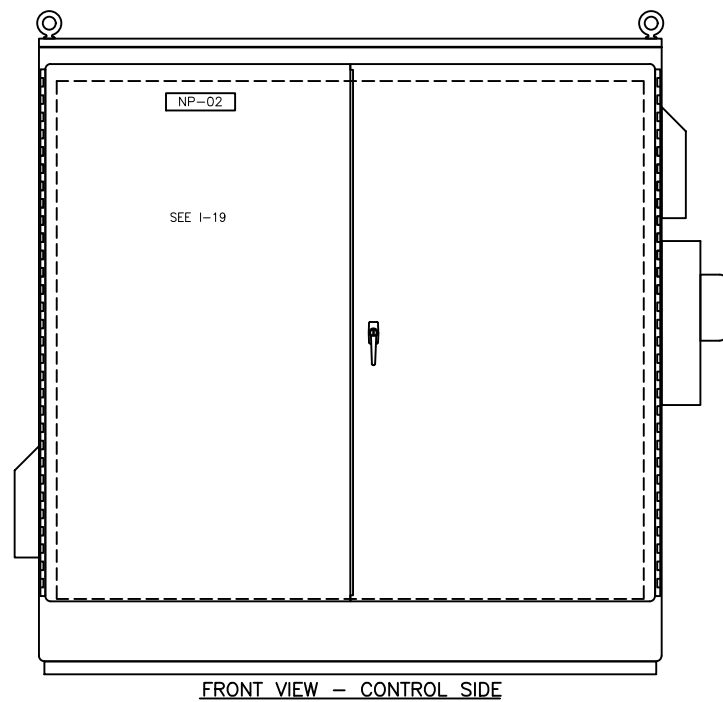
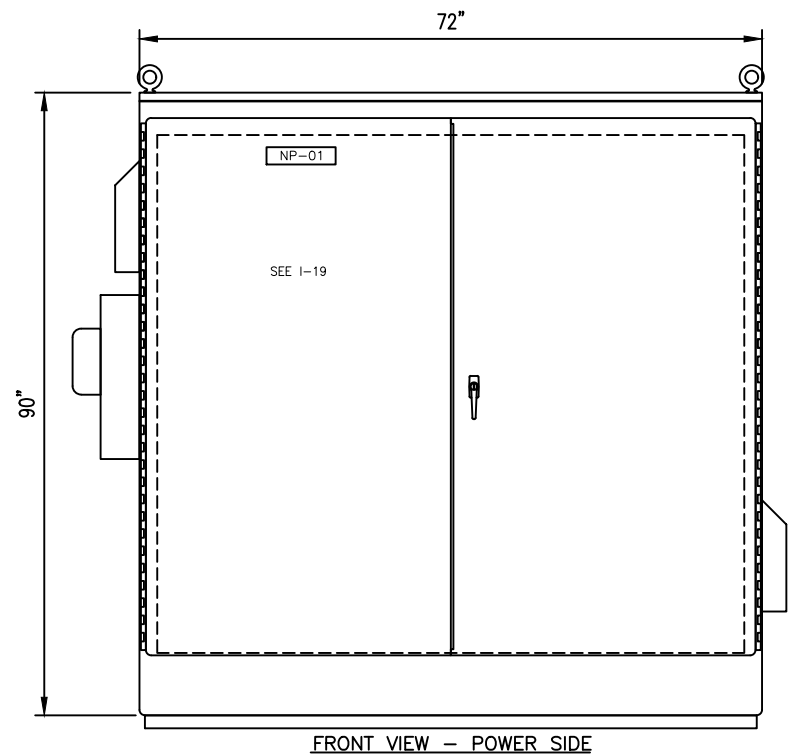
POWER CONTROL PANEL WIRING DIAGRAM
 SINGLE PHASE SERVICE

DETAIL

I-17

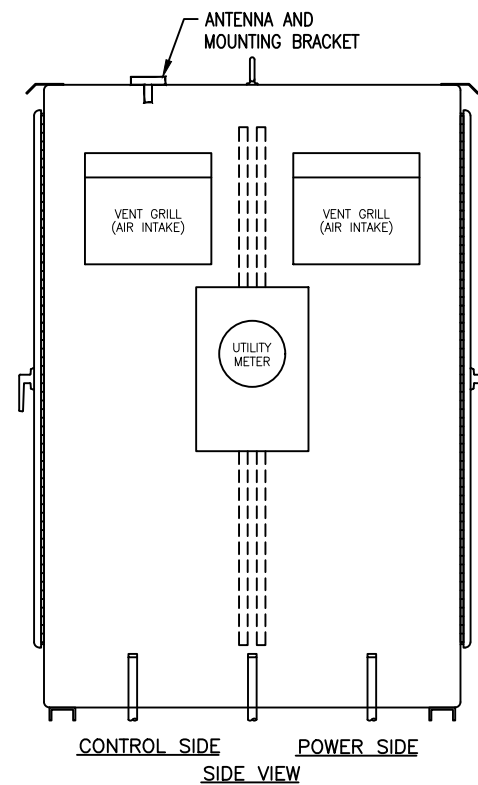
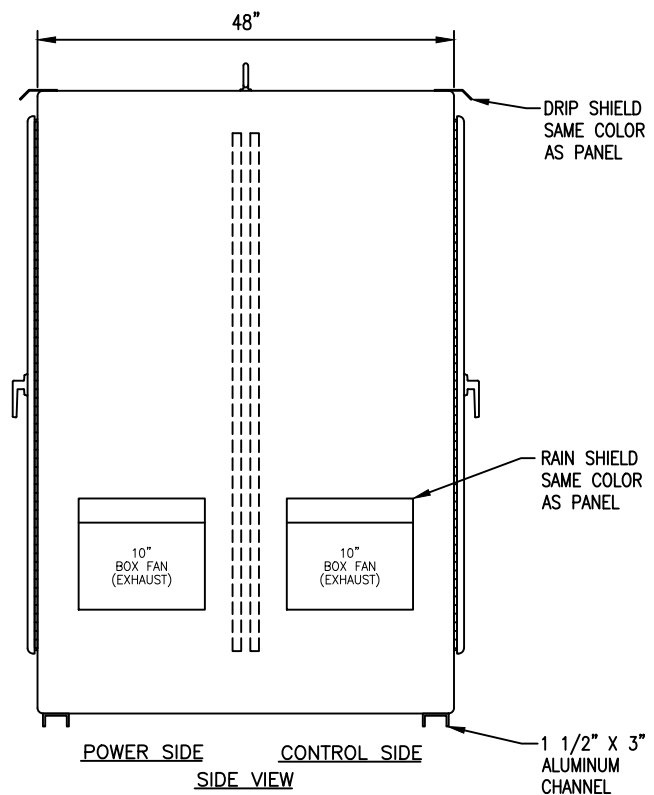
LAST REVISED:

4/25/2023



ENGRAVING CHART				
REF.	NAMEPLATE SIZE	TEXT HEIGHT	LINE	TEXT
NP-01	8" x 2"	1/2"	L1	[NAME] PUMP STATION
			L2	POWER EQUIPMENT CABINET
NP-02	8" x 2"	1/2"	L1	[NAME] ROAD PUMP STATION
			L2	CONTROL EQUIPMENT CABINET

1. NAMEPLATES: WHITE LAMICOID (2-PLY) WITH BLACK ENGRAVED LETTERS.
2. ATTACH WITH S.S. DRIVE SCREWS (COAT REAR OF SCREW WITH SILICON SEAL).



NOTES:

- CONSTRUCTION: NEMA 3R (MODIFIED NEMA 12).
 - ENCLOSURE/DOORS/DRIP SHIELDS: ALUMINUM.
 - SUB PANEL: ALUMINUM.
 - PADLOCKING HANDLE: L36 STAINLESS STEEL.
 - CHANNEL (ON BOTTOM OF ENCLOSURE): ALUMINUM, 1.50"H x 3.00"W.
 - DOOR STOPS: ON BOTTOM OF EACH DOOR.
- FINISH:
 - ENCLOSURE/DOORS/DRIP SHIELDS: S-102 ALMOND PAINT.
 - SUB PANEL: WHITE PAINT.
- CELLULAR MODEM DEVICE SHALL BE CRADLE POINT PART #TB5-650C150M-NON.
- ANTENNA SHALL BE PANORAMA LPAM-BC3G-26-3SP WITH COMPATIBLE MOUNTING BRACKET.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED:

James Chedberg
SUSSEX COUNTY ENGINEER

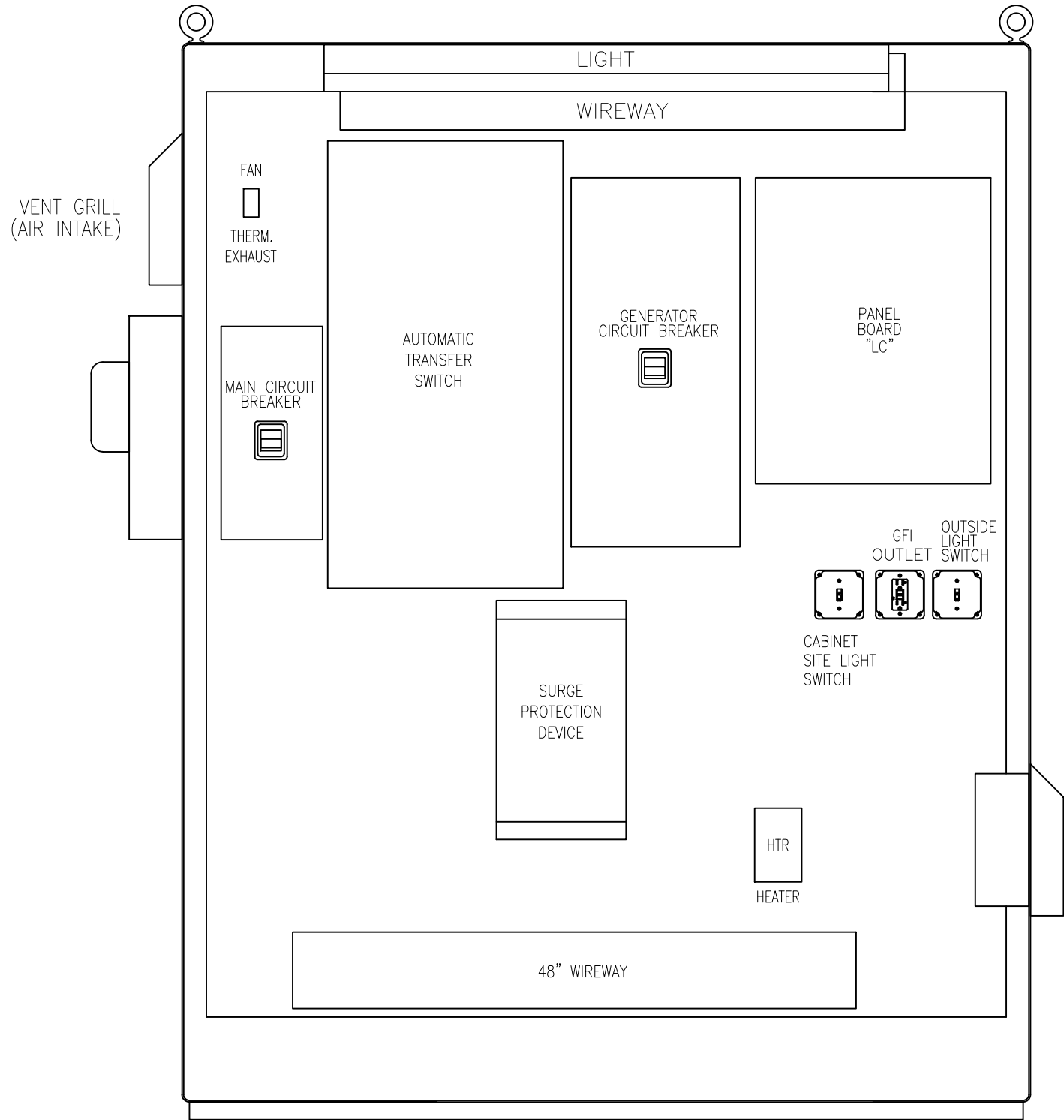
POWER AND CONTROL CABINET ARRANGEMENT
THREE PHASE SERVICE

DETAIL

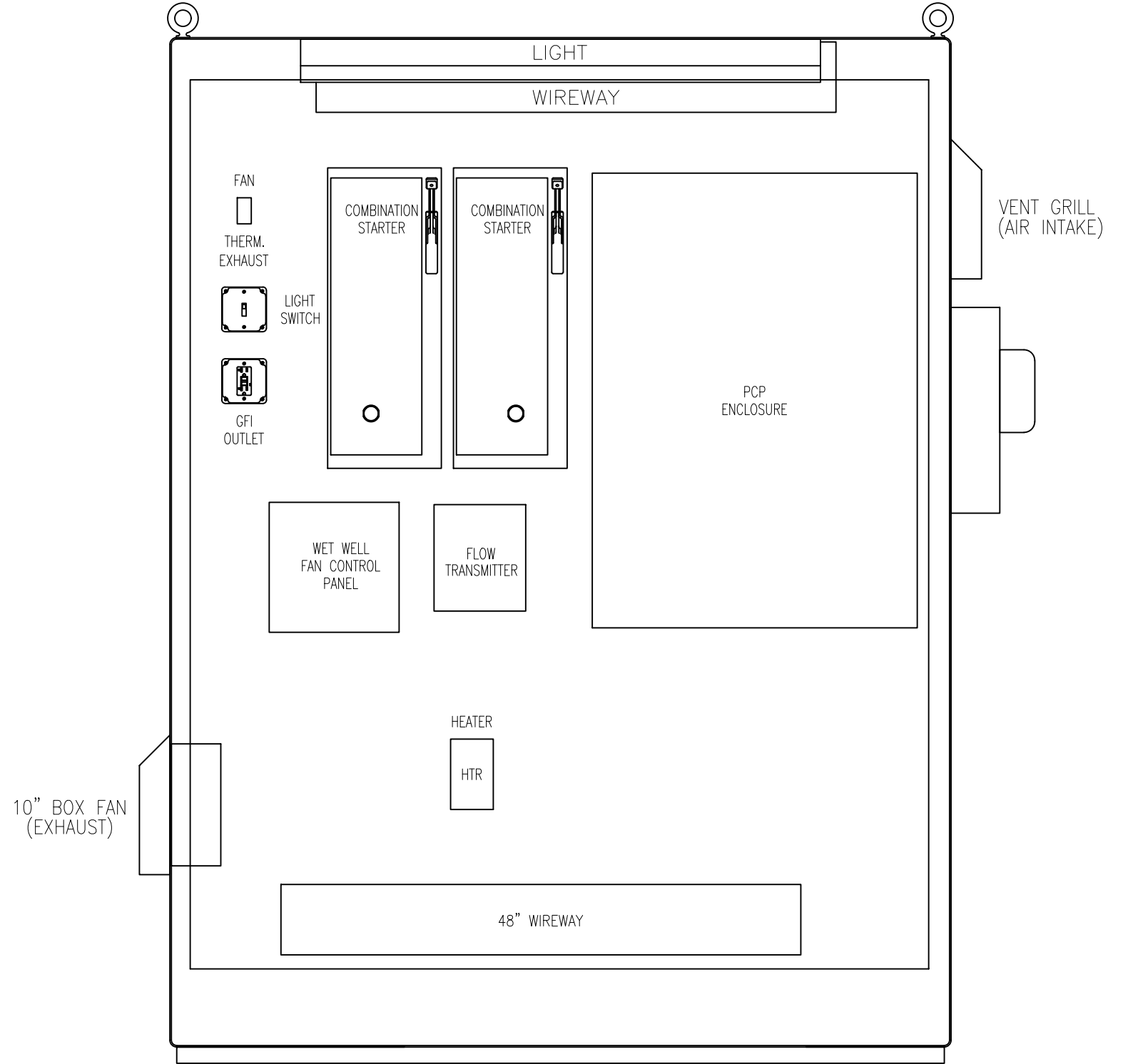
I-18

LAST REVISED:

4/25/2023



SUBPANEL LAYOUT
POWER SIDE



SUBPANEL LAYOUT
CONTROL SIDE



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chiodini*
SUSSEX COUNTY ENGINEER

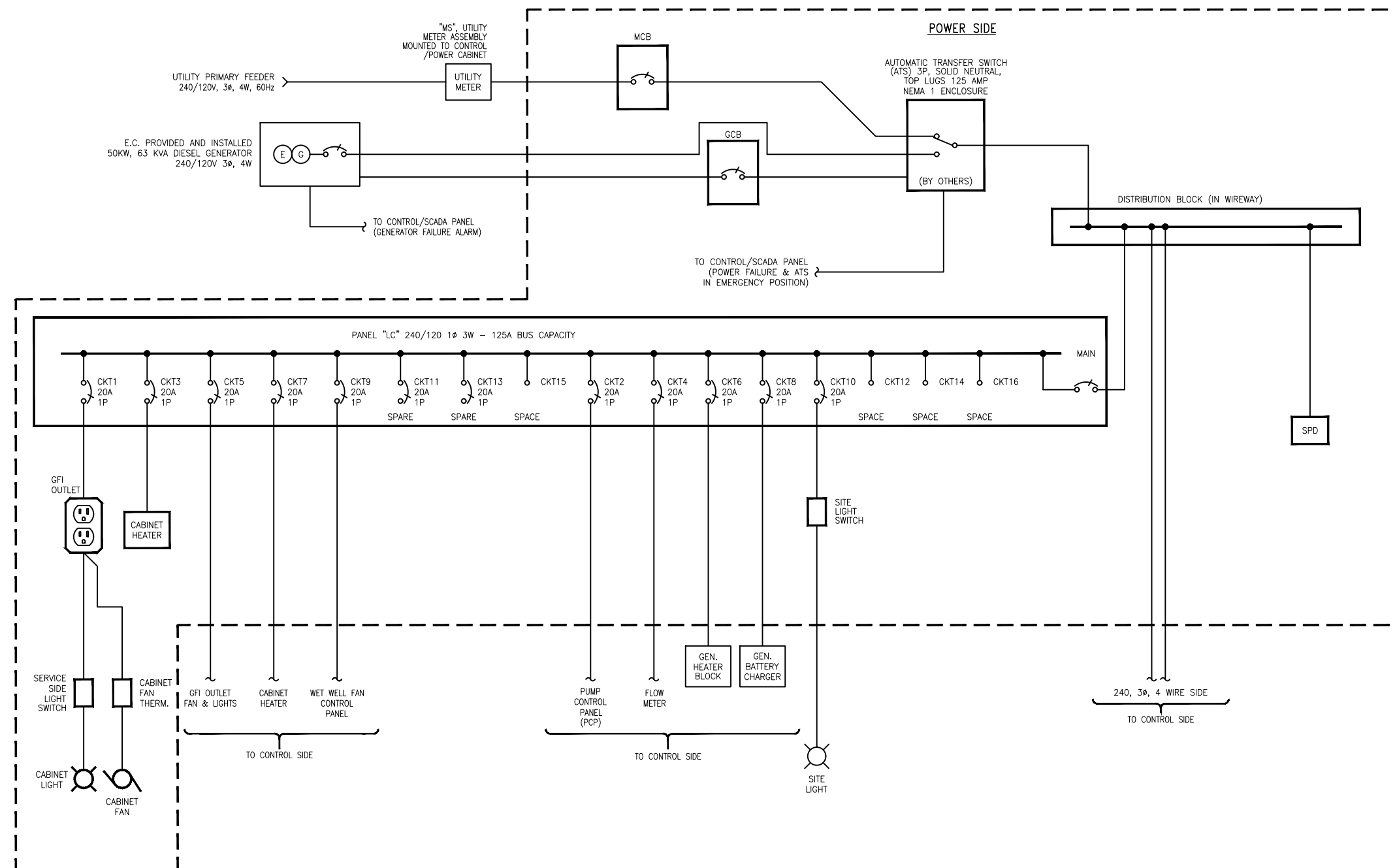
POWER AND CONTROL EQUIPMENT ARRANGEMENT
THREE PHASE SERVICE

DETAIL

I-19

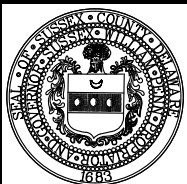
LAST REVISED:

4/25/2023



NOTES:

1. FLOW METER INCLUDED ONLY WHEN PUMP STATION DISCHARGES INTO PRIMARY FORCE MAIN LEADING TO SEWAGE TREATMENT PLANT.
2. ALL PUMPS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*

SUSSEX COUNTY ENGINEER

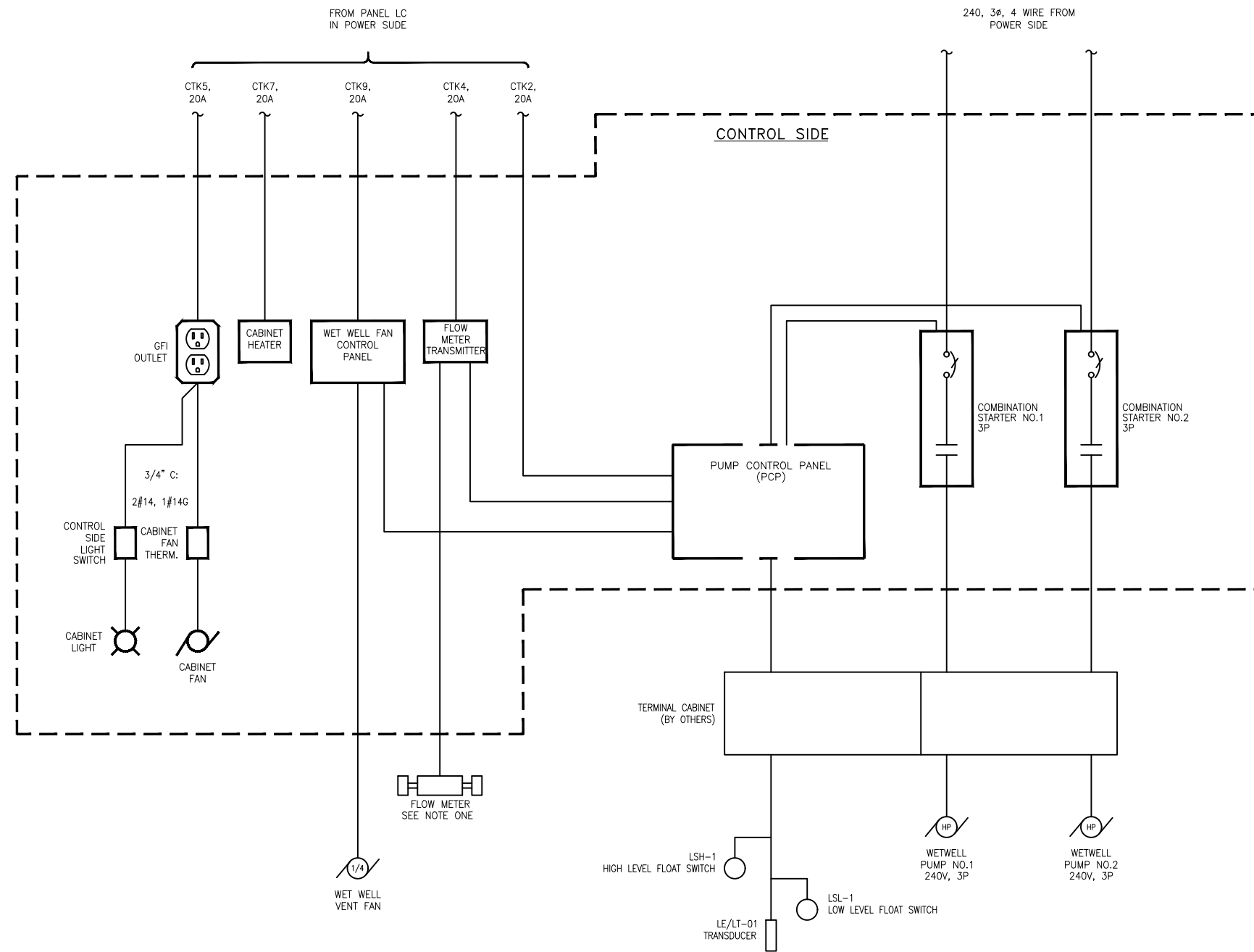
**POWER EQUIPMENT CABINET WIRING DIAGRAM
THREE PHASE SERVICE**

DETAIL

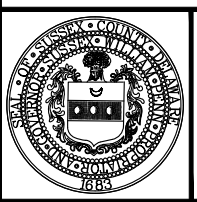
I-20

LAST REVISED:

4/25/2023



- NOTES:**
1. FLOW METER INCLUDED ONLY WHEN PUMP STATION DISCHARGES INTO PRIMARY FORCE MAIN LEADING TO SEWAGE TREATMENT PLANT.
 2. ALL PUMPS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.

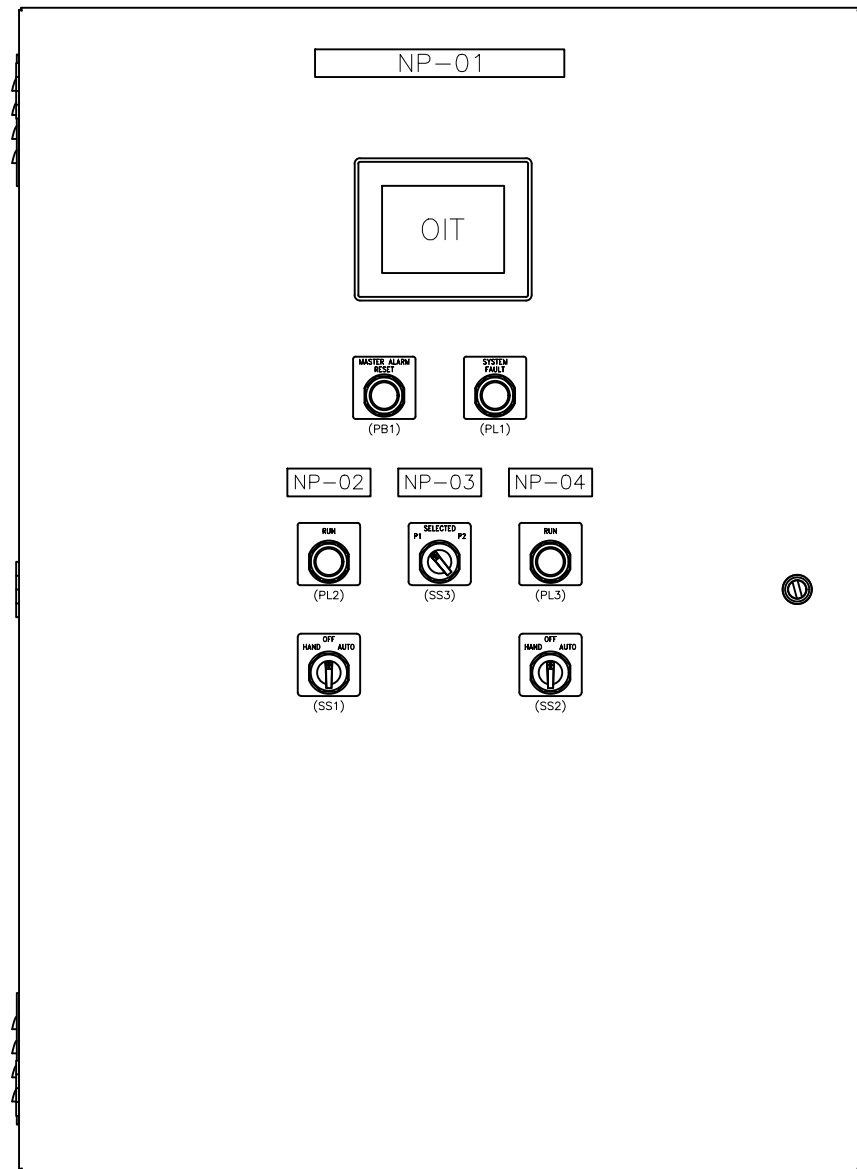


SUSSEX COUNTY ENGINEERING DEPARTMENT

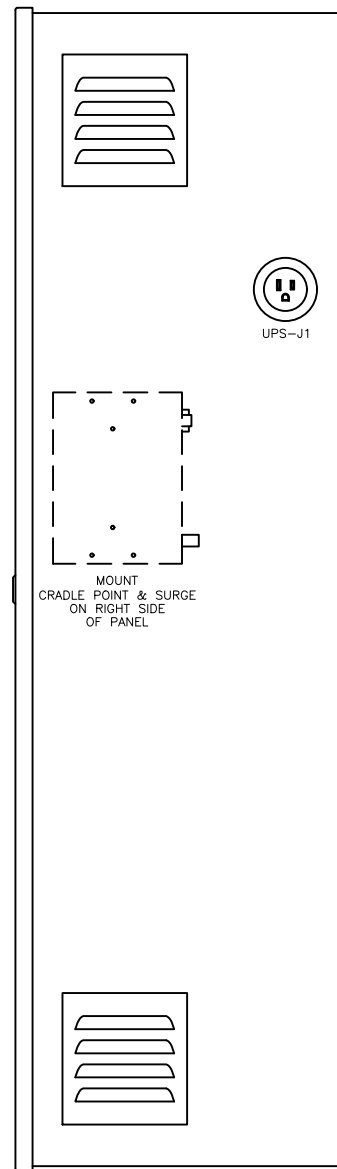
APPROVED: *James Chedler*
 SUSSEX COUNTY ENGINEER

CONTROL EQUIPMENT CABINET WIRING DIAGRAM
 THREE PHASE SERVICE

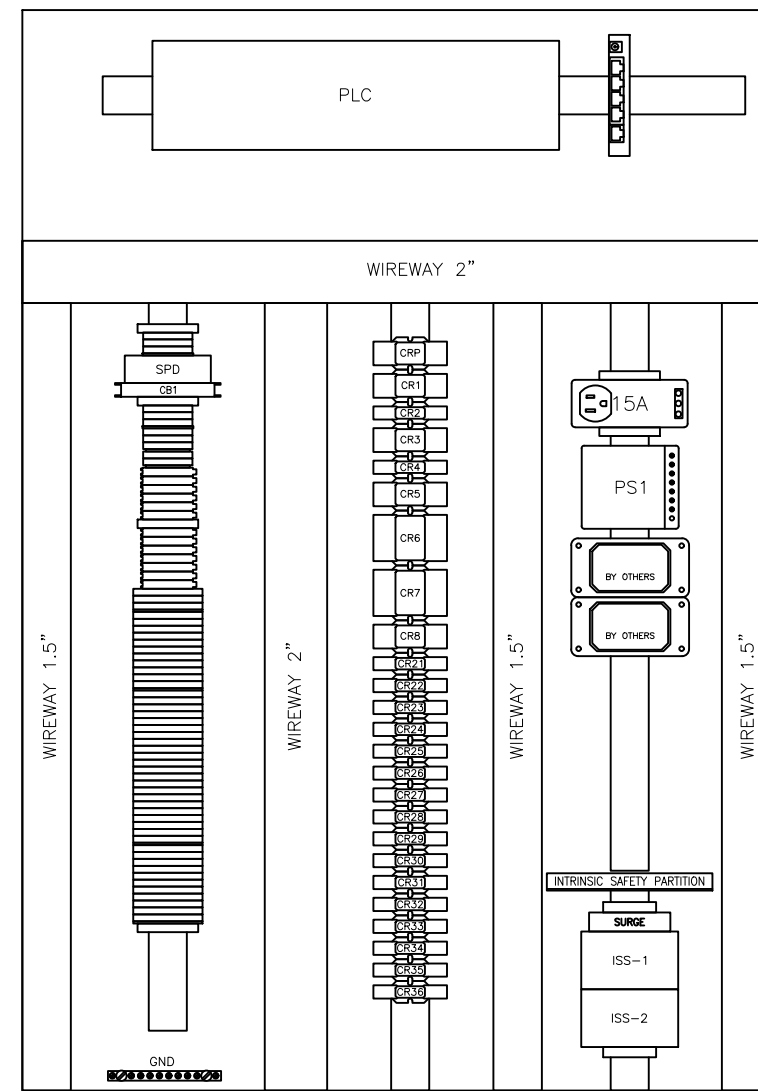
DETAIL
 I-21
 LAST REVISED:
 4/25/2023



ENCLOSURE - FRONT VIEW
(42"H x 30"W x 12"D)



SIDE VIEW



SUB PANEL
(39"H x 27"W)

ENGRAVING CHART				
REF.	NAME PLATE SIZE	TEXT HEIGHT	LINE	TEXT
NP-01	8" x 1"	1/2"	L1	PUMP CONTROL PANEL
NP-02	4" x 1"	3/8"	L1	PUMP 1
NP-03	4" x 1"	3/8"	L1	FLOAT SYSTEM
NP-04	4" x 1"	3/8"	L1	PUMP 2

NOTES:
 1. NAMEPLATES: WHITE LAMICOID (2-PLY) WITH BLACK ENGRAVED LETTERS.
 2. ATTACH WITH S.S. DRIVE SCREWS (COAT REAR OF SCREW WITH SILICON SEAL).

NOTES:

- CONSTRUCTION: WALL MOUNTED, NEMA 12 ENCLOSURE.
 A. ENCLOSURE: 14 GAUGE STEEL.
 B. SUB-PANEL: 12 GAUGE STEEL.
- FINISH:
 A. ENCLOSURE: INTERIOR & EXTERIOR ANSI 61 GRAY ENAMEL OVER PHOSPHATIZED SURFACES.
 B. SUB-PANEL: WHITE ENAMEL.
- CONFIRM SERVICE AVAILABILITY WITH POWER COMPANY.
- CELLULAR MODEM DEVICE SHALL BE CRADLE POINT PART #TB5-650C150M-NON. (PROVIDED BY SUSSEX COUNTY)



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
 SUSSEX COUNTY ENGINEER

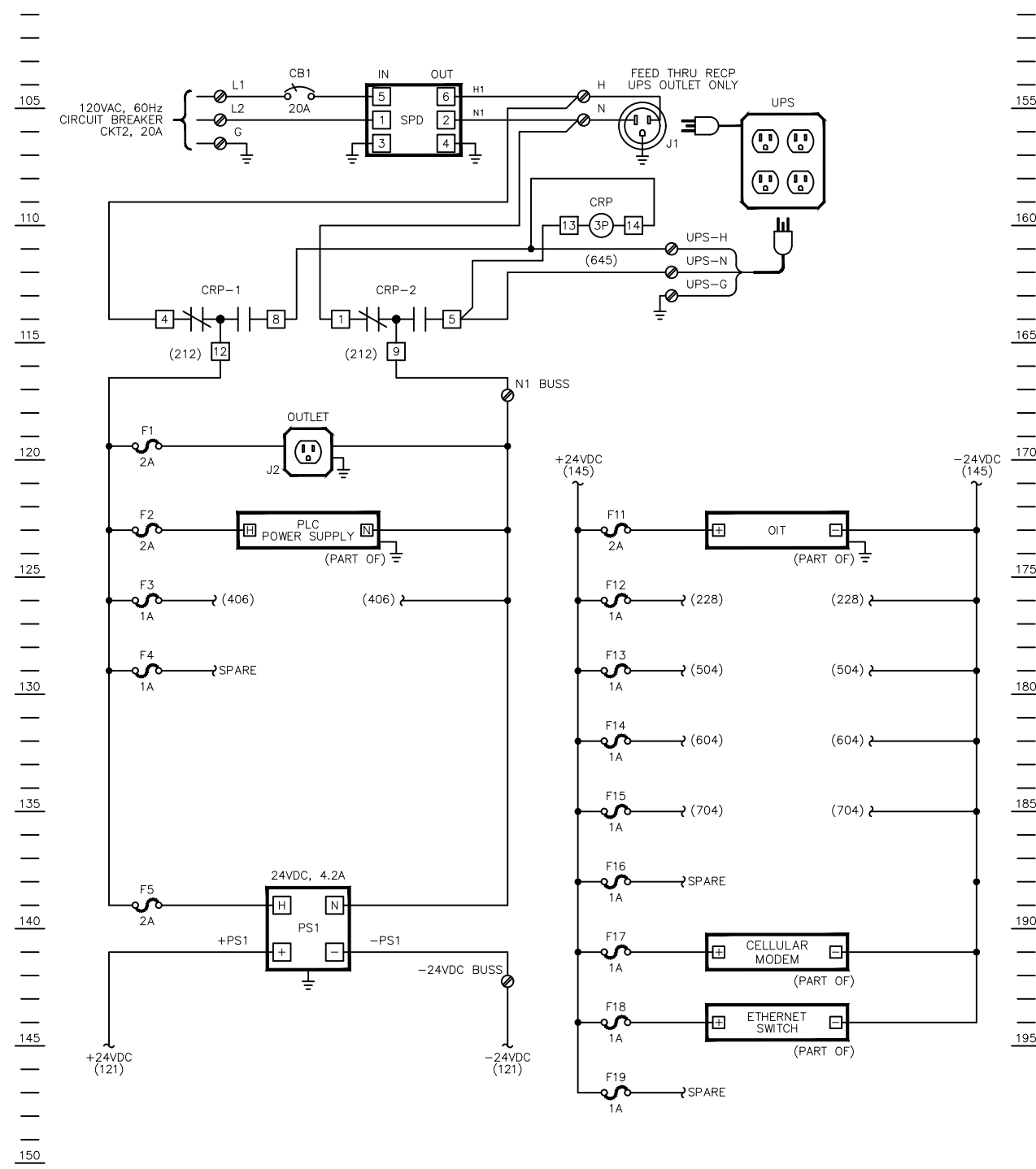
PUMP CONTROL PANEL LAYOUT
 THREE PHASE SERVICE

DETAIL

I-22

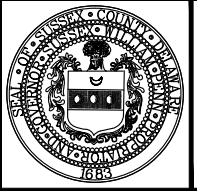
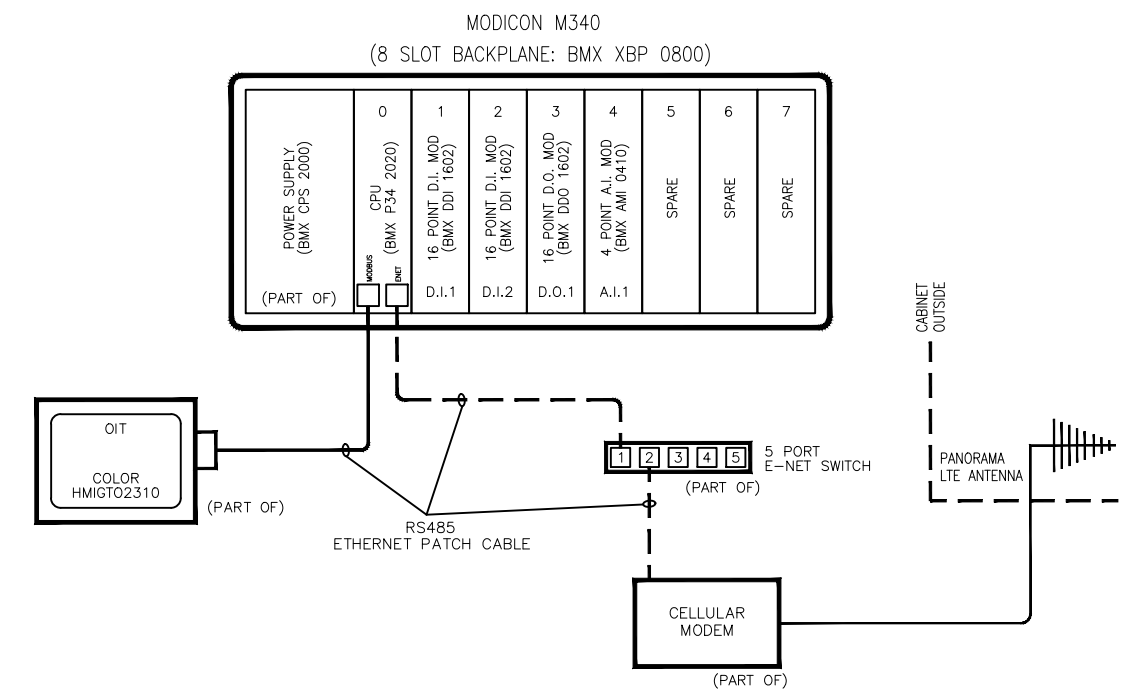
LAST REVISED:

4/25/2023



GENERAL NOTES:

1. PLASTIC WIRE WRAPS SHALL BE USED TO BUNDLE WIRES EXCEPT WITHIN WIRING DUCTS. BUNDLES WILL BE SECURELY FASTENED TO STEEL STRUCTURE.
2. WIRE TO BE STRANDED COPPER, INSULATED FOR NOT LESS THAN 600 VOLTS WITH A MOISTURE-RESISTANT & FLAME RETARDANT COVERING.
3. CONTROL CIRCUIT WIRING TO BE 16 AWG MINIMUM. ANALOG CIRCUIT WIRING TO BE 18 AWG TWISTED SHIELDED PAIRS.
4. WIRE NUMBERS ARE TO AGREE WITH THE TERMINAL NUMBERS UNLESS OTHERWISE SHOWN. ALL PLC INPUT & OUTPUT ADDRESS NUMBERS TO BE USED AS WIRE NUMBERS.
5. SPARE TERMINAL NUMBERS: BLANK
6. BOTH ENDS OF ALL WIRES SHALL BE MARKED PER WIRING DIAGRAMS.
7. WIRE COLORS:
AC PHASE.....BLACK
AC NEUTRAL.....WHITE
GROUND.....GREEN
AC CONTROL (PANEL POWERED).....RED
AC CONTROL (FIELD POWERED).....YELLOW
DC CONTROL.....ORANGE
(+)24VDC.....BLUE
(-)24VDC.....BROWN
DC SIGNAL (ANALOG) 2/C SHIELD
 (+) RED
 (-) BLACK
8. CELLULAR MODEM DEVICE SHALL BE CRADLE POINT PART #TB5-650C150M-NON.
9. DETAILS I-23 THRU I-30 REPRESENT TYPICAL WIRING DIAGRAMS FOR A PUMP STATION CONTROL PANEL. ANY DEVIATIONS NECESSARY DUE TO SPECIFIC PUMP STATION REQUIREMENTS MUST BE APPROVED BY SUSSEX COUNTY.
10. CONFIRM SERVICE AVAILABILITY WITH POWER COMPANY.
11. UPS SHALE BE PART SMT750C, AS SUPPLIED BY APC.



SUSSEX COUNTY ENGINEERING DEPARTMENT

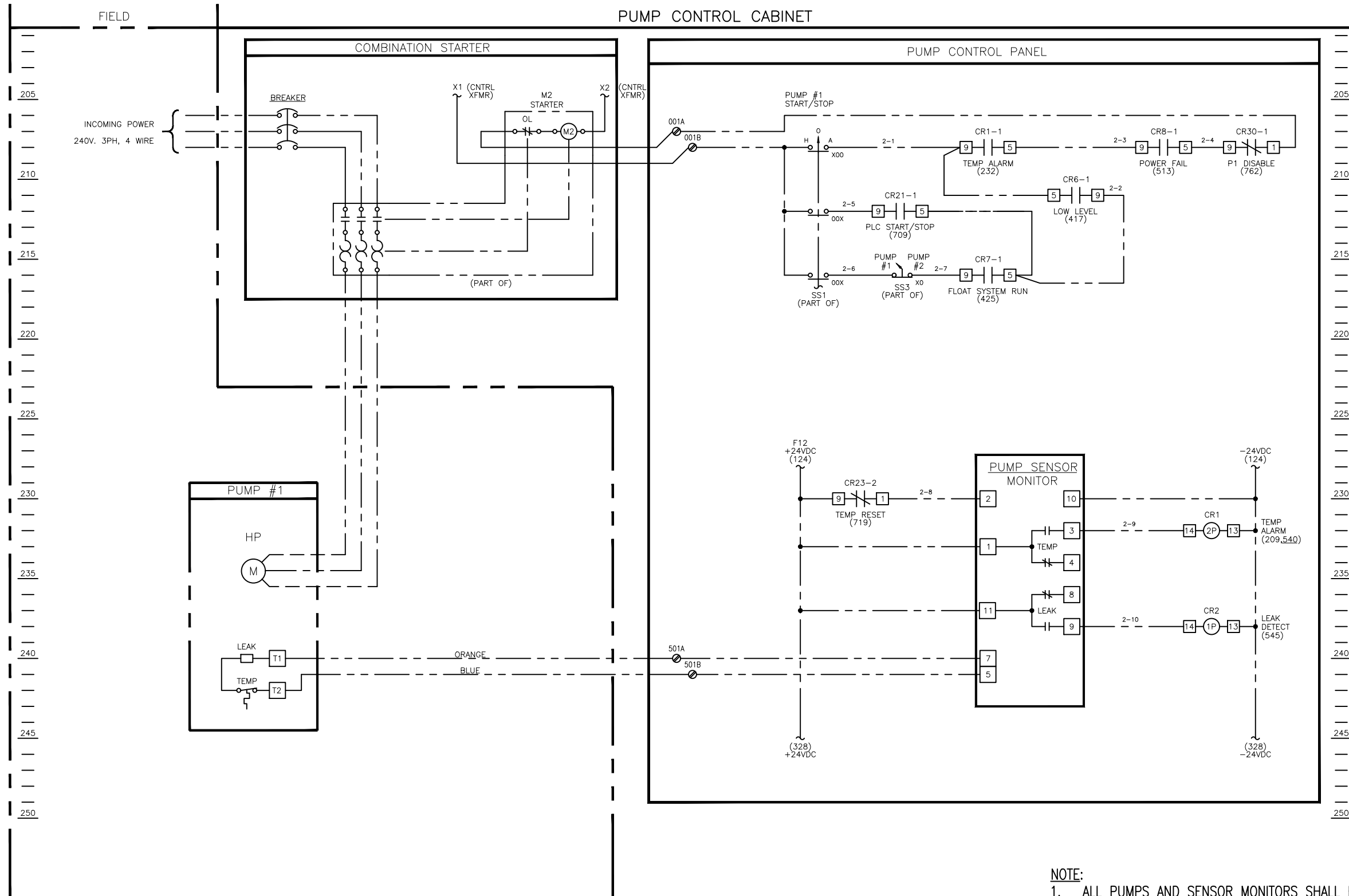
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SUSSEX COUNTY ENGINEER

**PUMP CONTROL PANEL WIRING DIAGRAM
THREE PHASE SERVICE**

DETAIL

I-23

LAST REVISED:
4/25/2023



NOTE:
 1. ALL PUMPS AND SENSOR MONITORS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



SUSSEX COUNTY ENGINEERING DEPARTMENT

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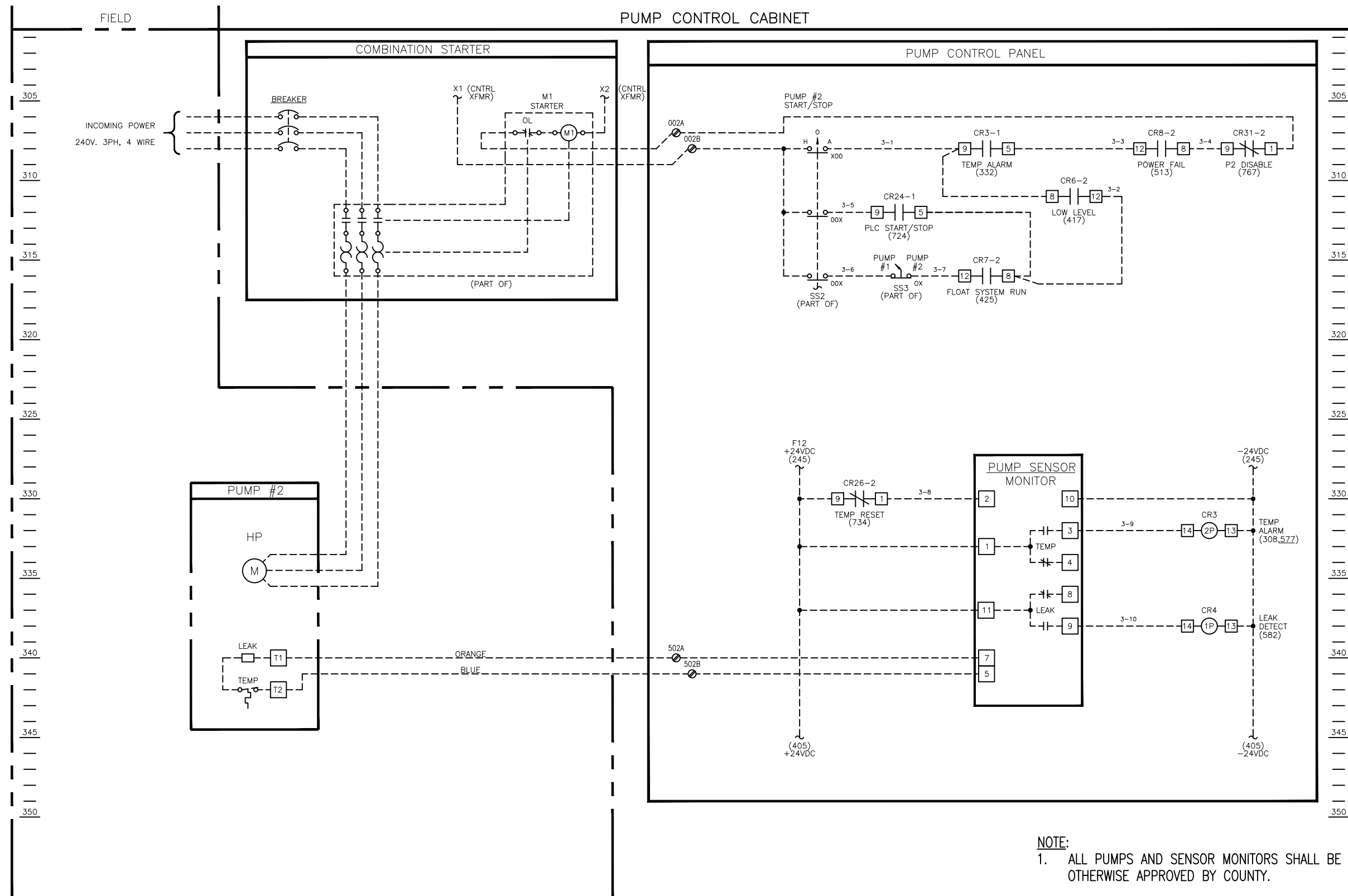
PUMP CONTROL PANEL WIRING DIAGRAM
 THREE PHASE SERVICE

DETAIL

I-24

LAST REVISED:

4/25/2023



NOTE:
 1. ALL PUMPS AND SENSOR MONITORS SHALL BE FLYGT PRODUCTS UNLESS OTHERWISE APPROVED BY COUNTY.



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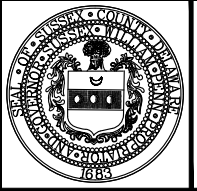
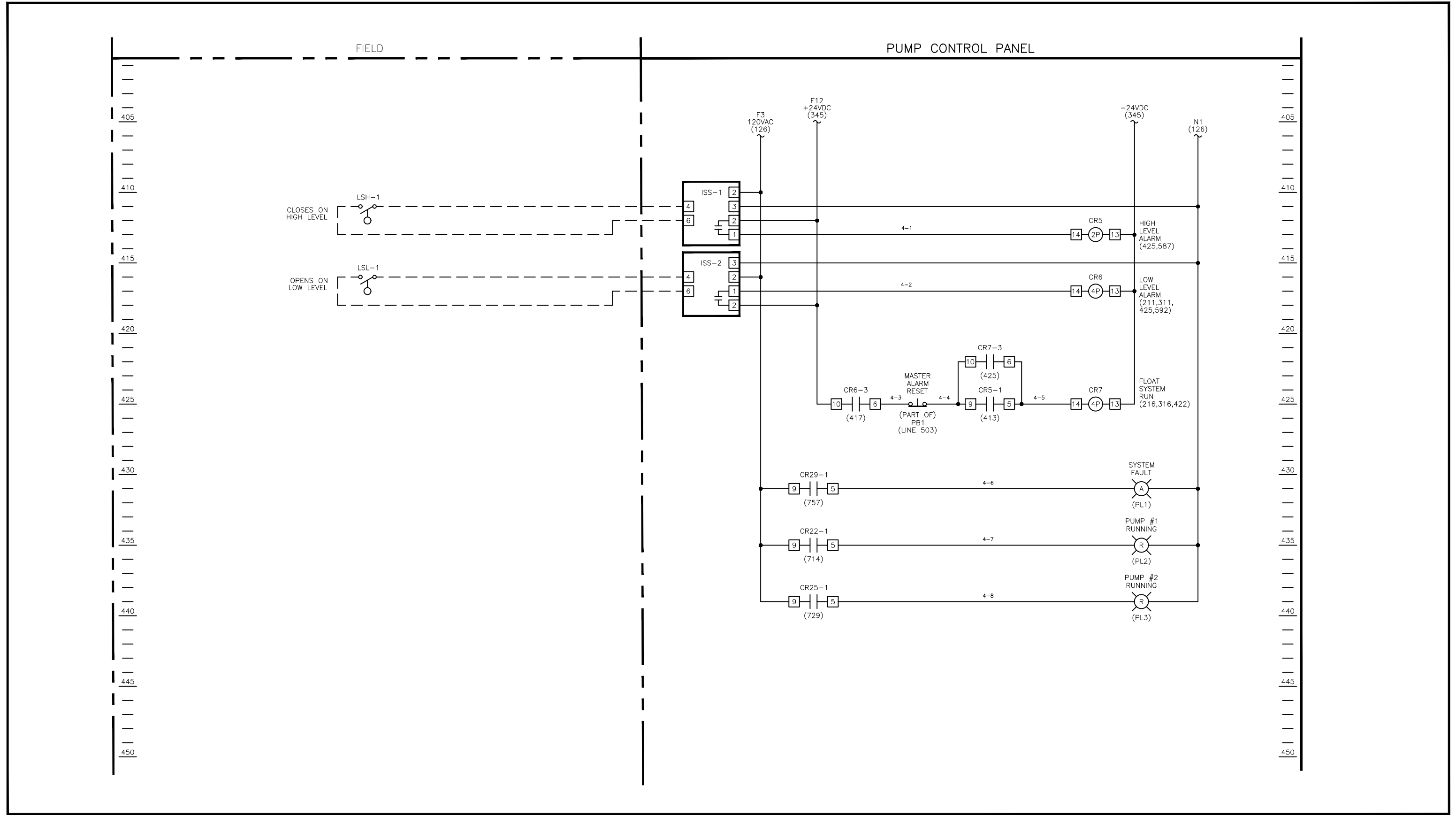
PUMP CONTROL PANEL WIRING DIAGRAM
 THREE PHASE SERVICE

DETAIL

I-25

LAST REVISED:

4/25/2023



SUSSEX COUNTY ENGINEERING DEPARTMENT

APPROVED: *James Chedler*
SUSSEX COUNTY ENGINEER

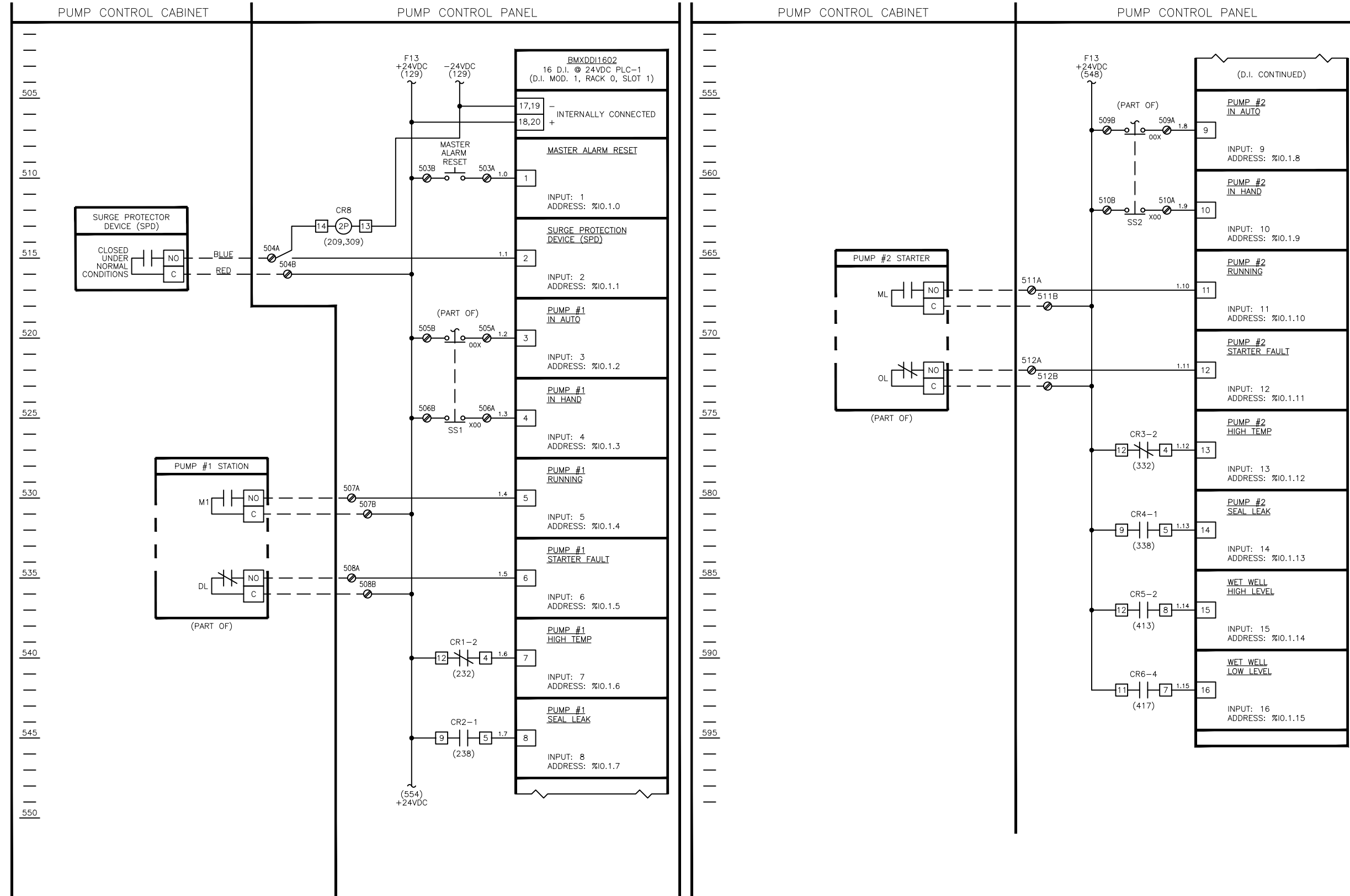
PUMP CONTROL PANEL WIRING DIAGRAM
THREE PHASE SERVICE

DETAIL

I-26

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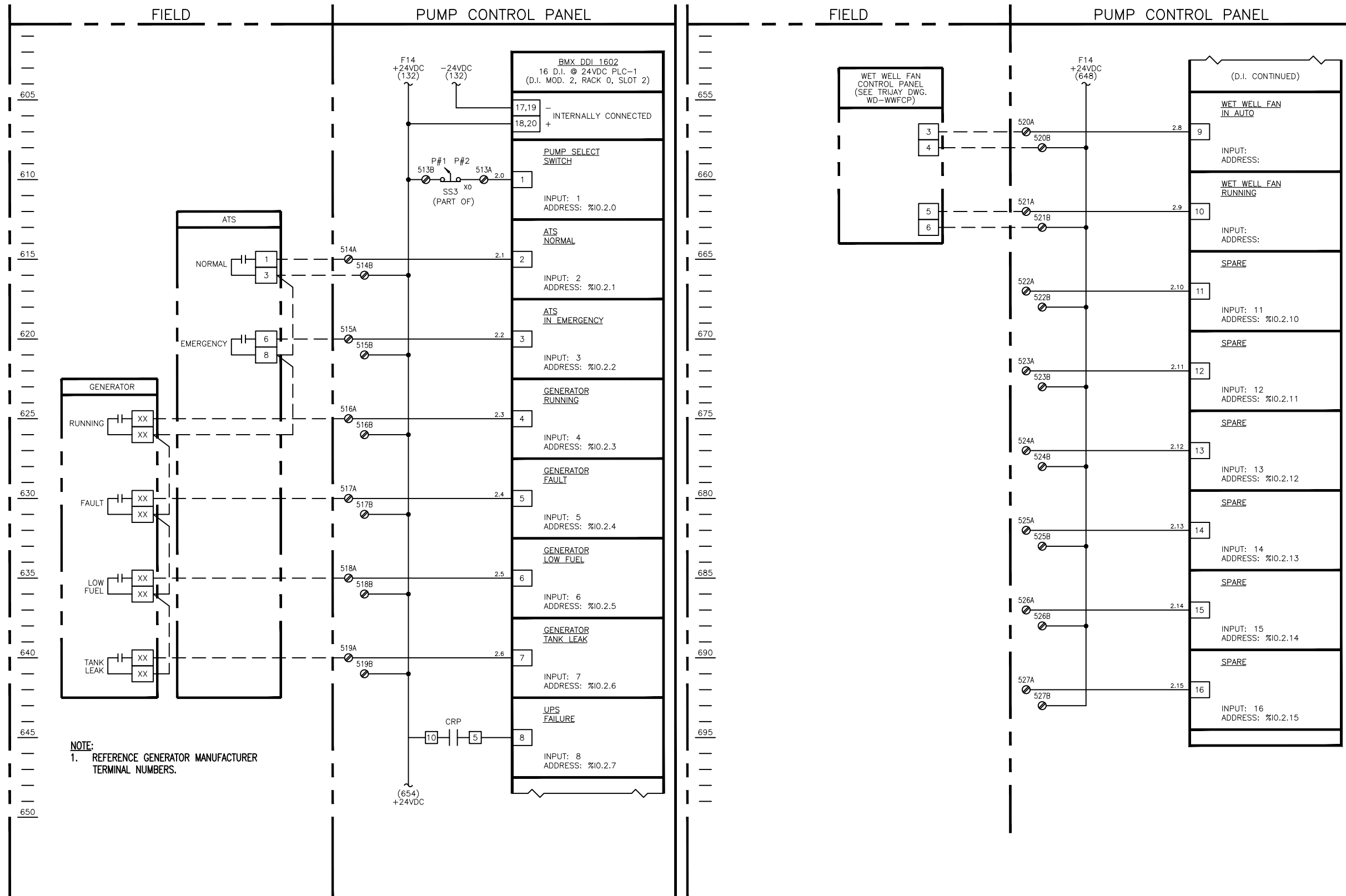
PUMP CONTROL PANEL WIRING DIAGRAM
THREE PHASE SERVICE

DETAIL

I-27

LAST REVISED:

4/25/2023



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APPROVED: *James Chedoke*
SUSSEX COUNTY ENGINEER

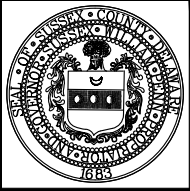
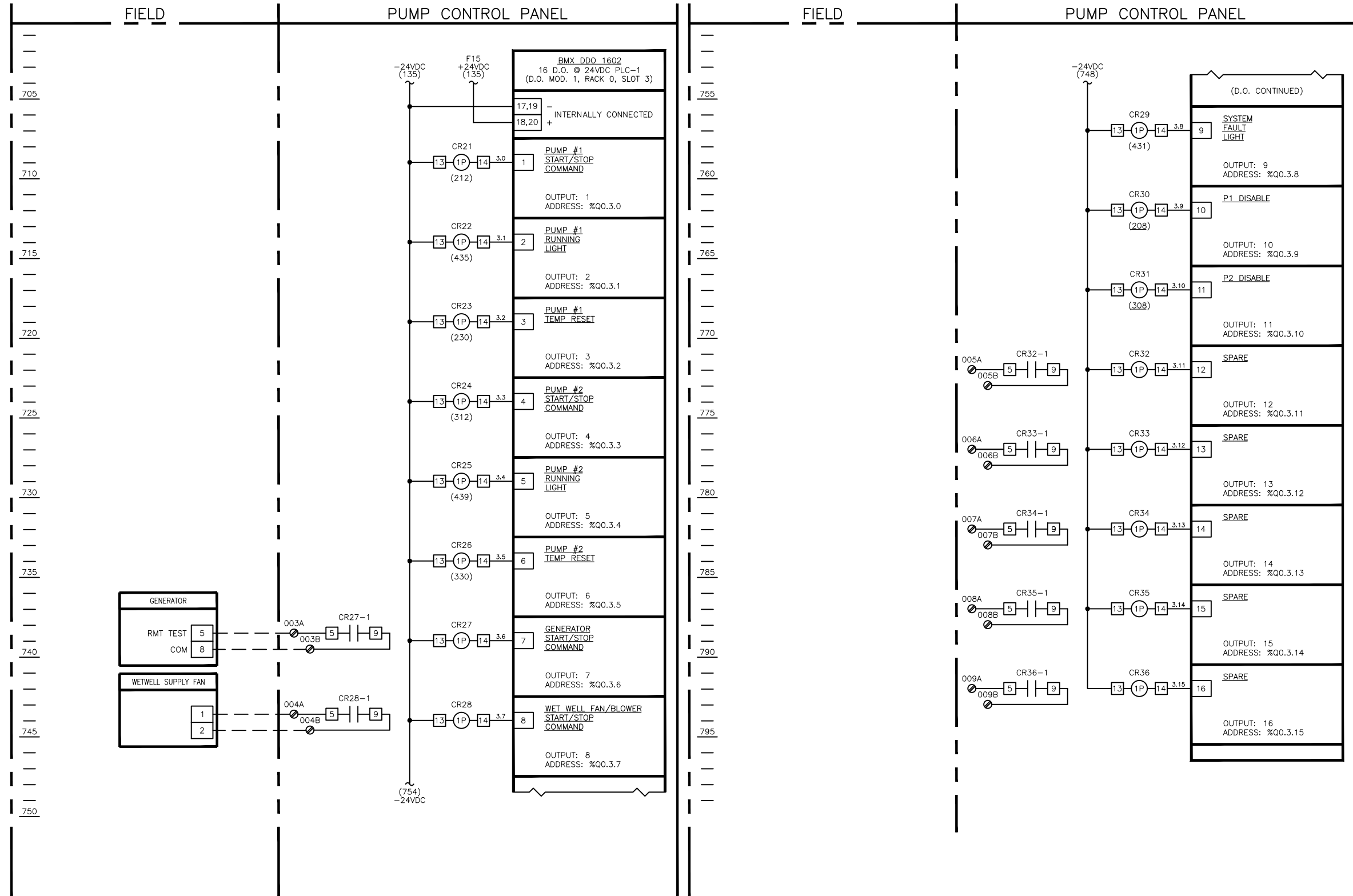
PUMP CONTROL PANEL WIRING DIAGRAM
THREE PHASE SERVICE

DETAIL

I-28

LAST REVISED:

4/25/2023



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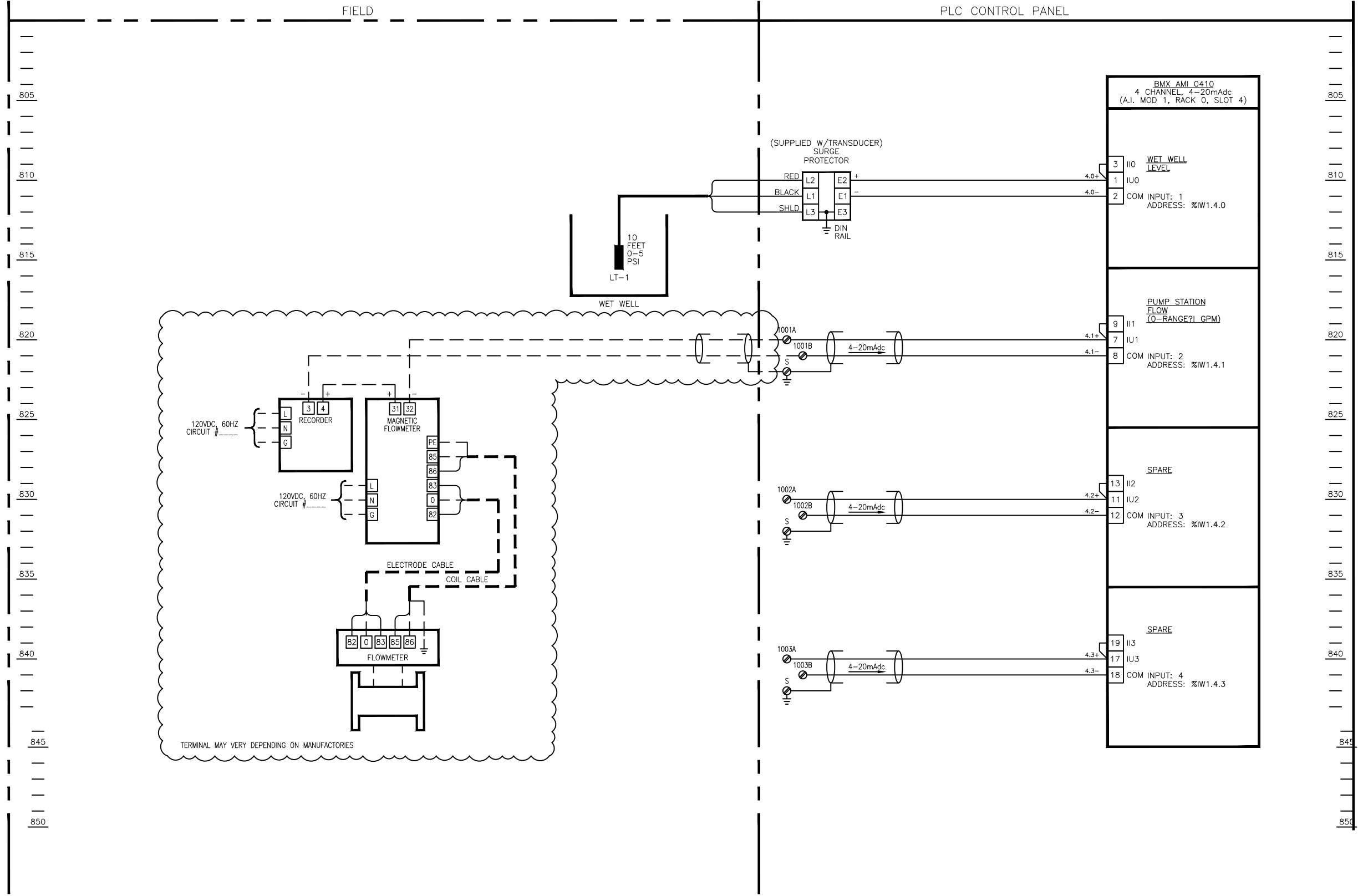
PUMP CONTROL PANEL WIRING DIAGRAM
THREE PHASE SERVICE

DETAIL

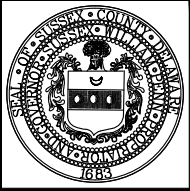
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LAST REVISED:

4/25/2023



TERMINAL MAY VARY DEPENDING ON MANUFACTORIES



SUSSEX COUNTY ENGINEERING DEPARTMENT

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PUMP CONTROL PANEL WIRING DIAGRAM
THREE PHASE SERVICE

DETAIL
I-30

LAST REVISED:
4/25/2023