

PROJECT CHART

EMC PROJECT	P.O. #	SERIAL NUMBERS
EM200242	21-0026	1

LIFT STATION PUMP CONTROL RTU

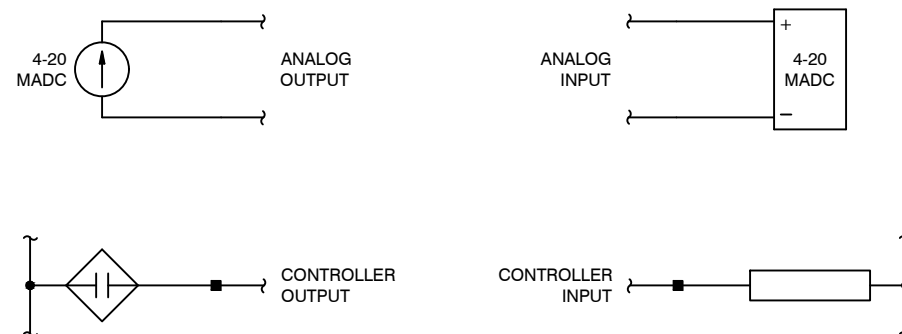
FOR BRUNSWICK, GEORGIA GLYNN COUNTY

EMC MODEL RTU76 WITH IDEC BACKUP CONTROLLER

DRAWING NOTES & SYMBOLS

1. ALL DEVICES SHOWN ON THE SCHEMATIC DIAGRAMS ARE LOCATED IN THE RTU UNLESS OTHERWISE INDICATED.
2. ▲ INDICATES DEVICE LOCATED EXTERNAL TO THE RTU.
3. --- DASHED LINES INDICATE EXTERNAL WIRING.
4. ■ INDICATES TERMINAL BLOCK.
5. MADE FROM DRAWING NO. RTU75

CONTROLLER SYMBOLS



REVISION RECORD


NO.	DATE	NOTES
0	7/22/20	ORIGINAL ISSUE FOR REVIEW AND COMMENT
1	7/29/20	ISSUED FOR PANEL FABRICATION
2	8/25/20	AS BUILT
3	10/20	GENERAL REVISION TO MATCH CHANGES MADE TO RTU75

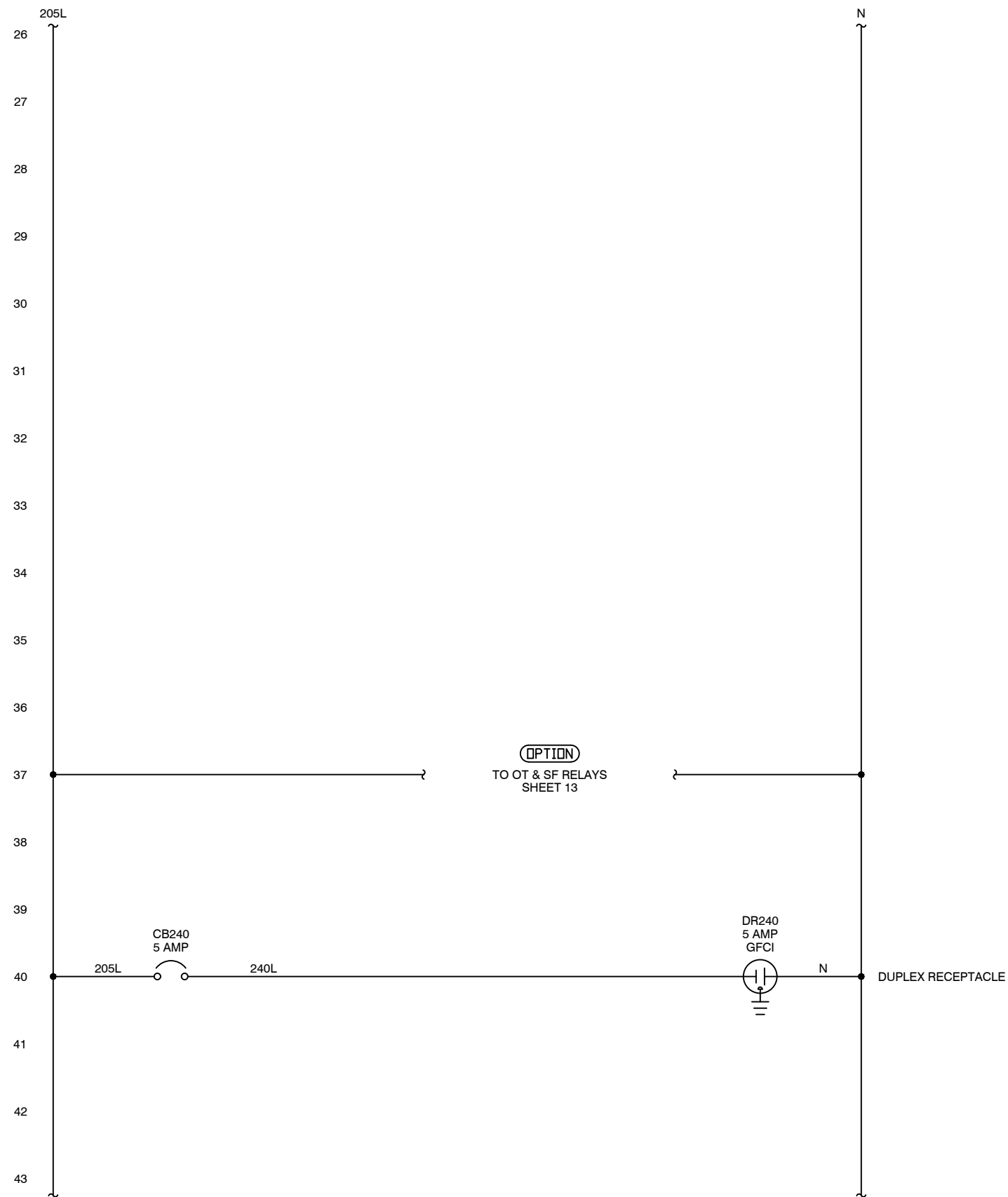
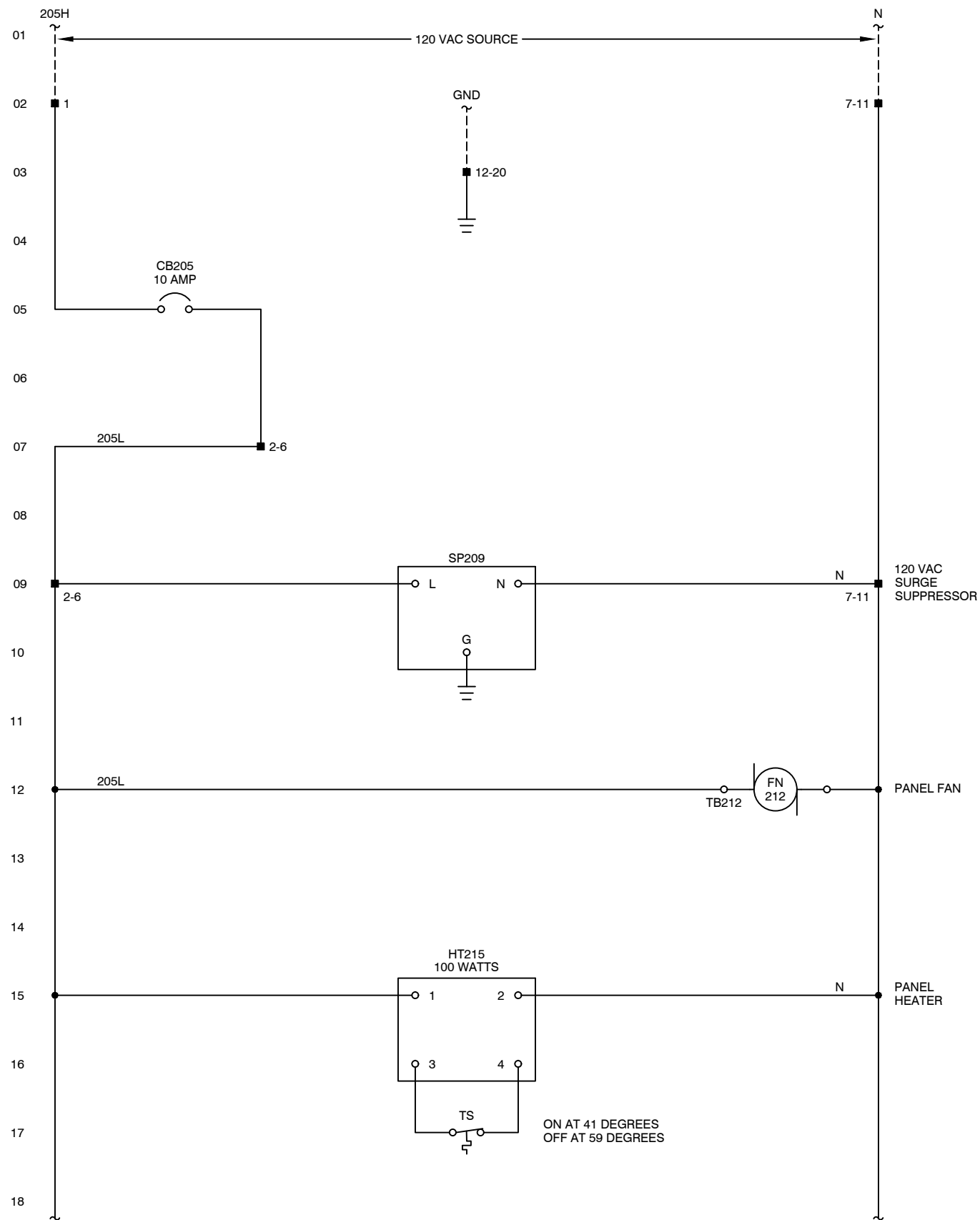
DRAWING INDEX

SHEET	SUBJECT	EQUIPMENT
0	TITLE SHEET	PROJECT
1	DRAWING INDEX & KEY PLAN	PROJECT
2	SCHEMATIC DIAGRAM	120 VAC CONTROL POWER
3	SCHEMATIC DIAGRAM	24 VDC CONTROL POWER
4	SCHEMATIC DIAGRAM	SEL CONTROLLER SLOT A & B
4A	SCHEMATIC DIAGRAM	SEL RTAC & ETHERNET SWITCH
5	SCHEMATIC DIAGRAM	CELLULAR ROUTERS
6	SCHEMATIC DIAGRAM	SEL CONTROLLER SLOT C
7	SCHEMATIC DIAGRAM	SEL CONTROLLER SLOT D
8	SCHEMATIC DIAGRAM	SEL CONTROLLER SLOT E
9	SCHEMATIC DIAGRAM	SEL CONTROLLER SLOT Z
9A	SCHEMATIC DIAGRAM	ANALOG CONDITIONING
10	SCHEMATIC DIAGRAM	PUMP 1 & 2 CONTROL
11	SCHEMATIC DIAGRAM	PUMP 3 CONTROL & ALARMING
11A	SCHEMATIC DIAGRAM	PUMP 3 CONTROL & ALARMING
12	SCHEMATIC DIAGRAM	BACKUP CONTROLLER
13	SCHEMATIC DIAGRAM	OT & SF RELAYS
14	BILL OF MATERIAL	CONTROL PANEL
15	(RESERVED)	
16	OUTLINE	FRONT VIEW
17	OUTLINE	DEAD FRONT PANEL
18	OUTLINE	SUBPANEL
19	(RESERVED)	
20	WIRING DIAGRAM	SEL CONTROLLER
21	WIRING DIAGRAM	SEL TERMINALS
22	WIRING DIAGRAM	AC/DC/OR TERMINALS

SLOT	Z	E	D	C	B	A
MODULE TYPE	ANALOG INPUT OUTPUT	DIGITAL INPUT	DIGITAL INPUT OUTPUT	DIGITAL INPUT	PROCESSOR AND COMMS	POWER SUPPLY AND I/O
I/O POINTS	4 AI 4 AO	14 DI	4 DI 4 DO	14 DI		2 DI 3 DO
RATING	4-20 MADC	24 VDC	24 VDC AND RELAY	24 VDC		24 VDC AND RELAY
I/O ADDRESSES	AI601 THRU AI604 AO601 THRU AO604	IN501 THRU IN514	IN401 THRU IN404 OUT401 THRU OUT404	IN301 THRU IN314		IN101 IN102 OUT101 OUT102 OUT103
DETAILS ON SHEET	9	8	7	6	5	4

**SEL CONTROLLER
KEY PLAN
(REAR VIEW)**

Notes:	Equipment:	Title:	Customer:	Electric Machine Control, Inc. Trussville, Alabama 35173 205-661-3998		Date: 7/22/20	Drawing No.	Sheet:
<small>ELECTRIC MACHINE CONTROL INC. considers this document to be proprietary and therefore prohibits any person to reproduce or disclose it in whole or part without specific written authorization.</small>	LIFT STATION PUMP CONTROL RTU	DRAWING INDEX AND KEY PLAN	BRUNSWICK, GEORGIA GLYNN COUNTY			Drawn By: J. RAMSAY Design By: D. COOK Appr'd By: D. COOK	RTU76	1
						Scale: NONE	Rev: 3	



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Equipment:
 LIFT STATION
 PUMP CONTROL RTU

Title:
 SCHEMATIC DIAGRAM

Customer:
 BRUNSWICK, GEORGIA
 GLYNN COUNTY

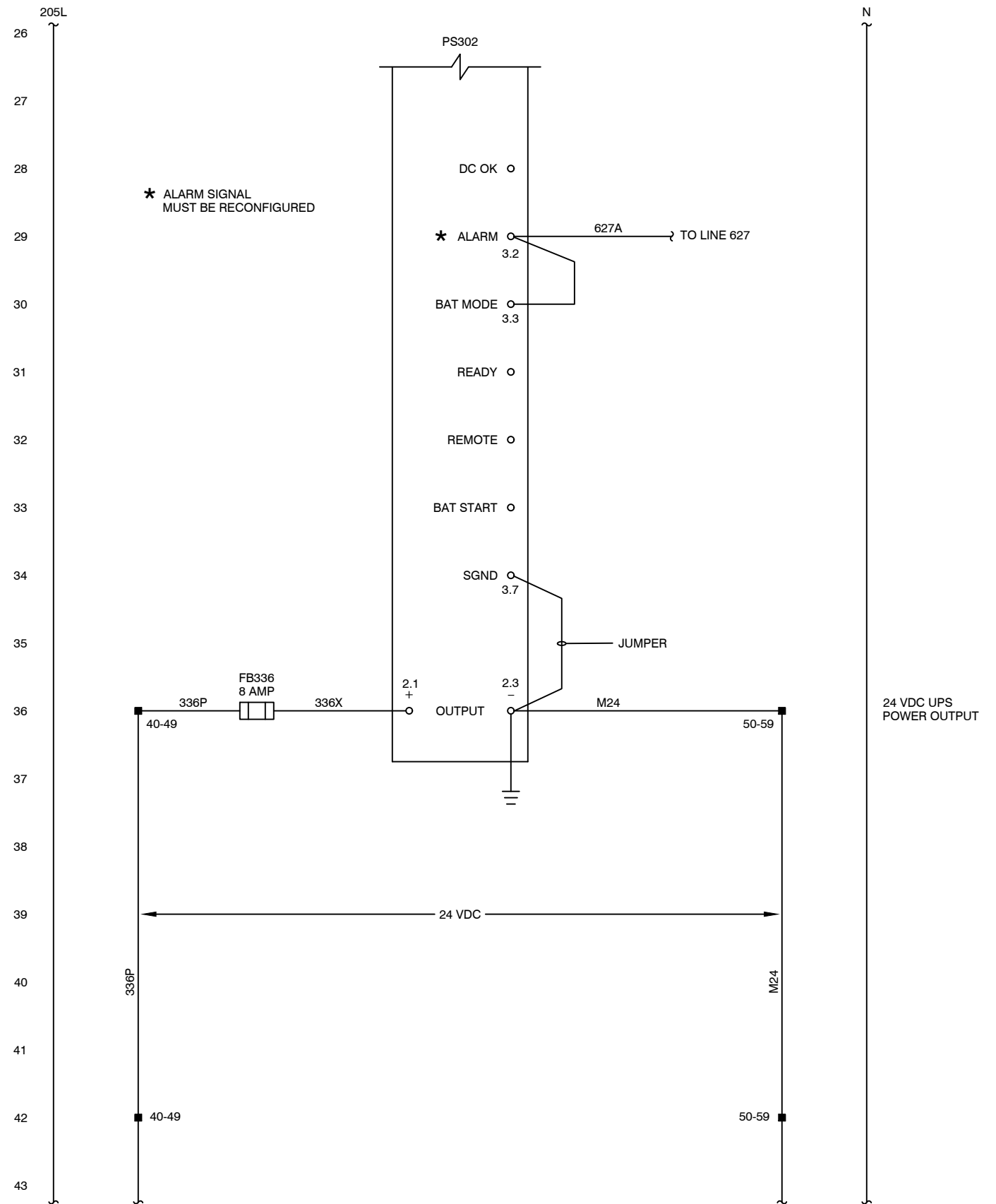
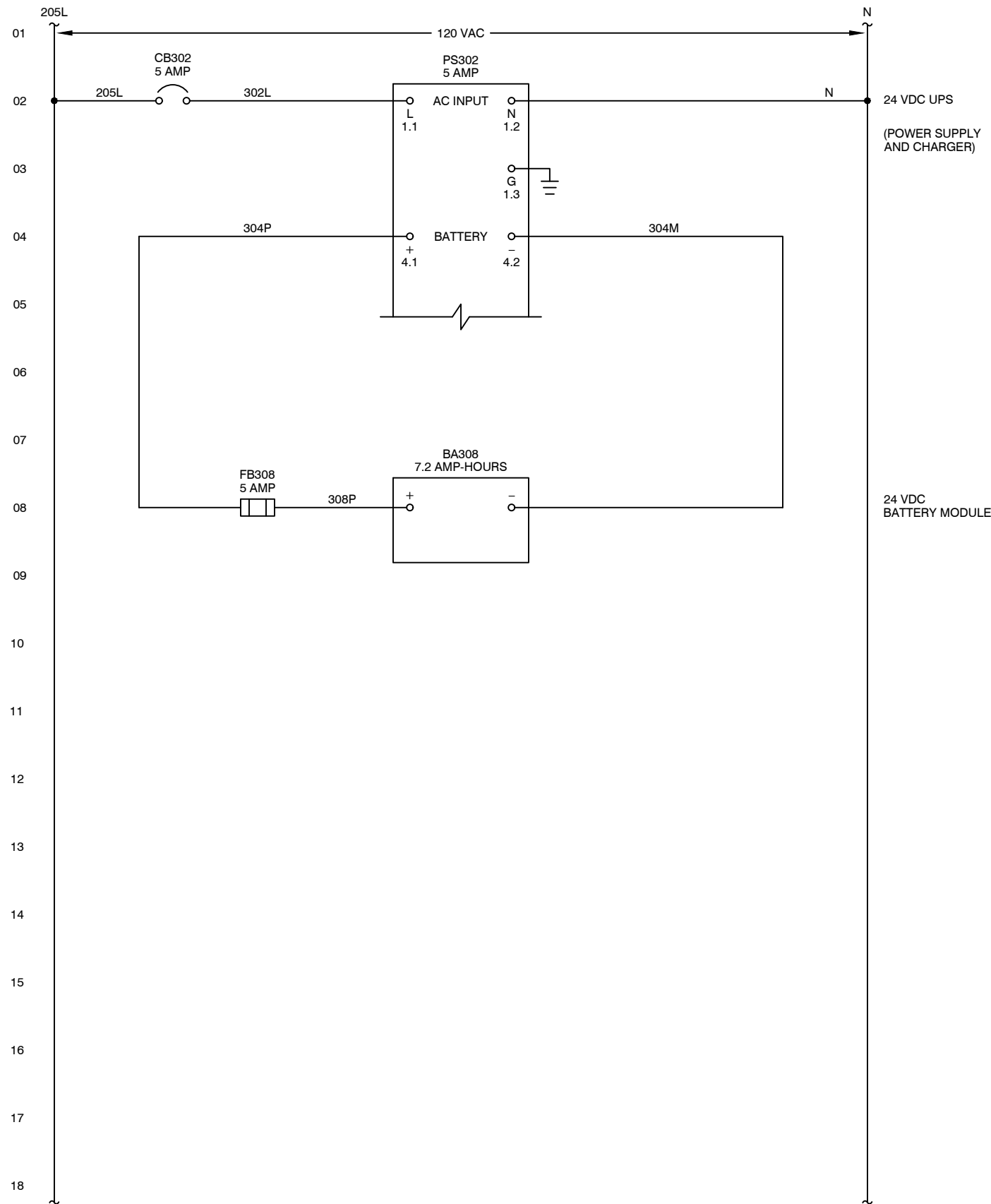
Electric Machine Control, Inc.
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 205-661-3998



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 2



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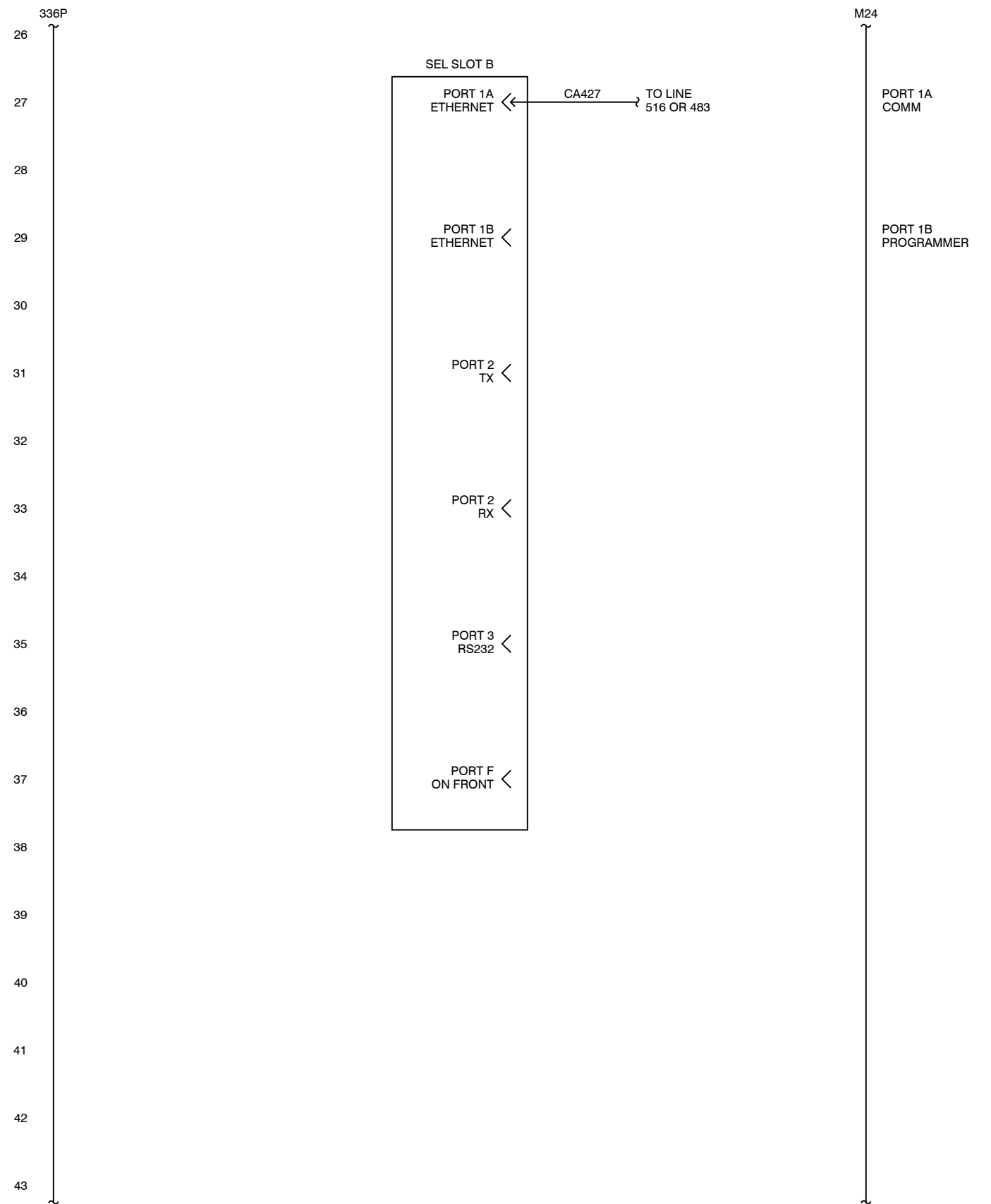
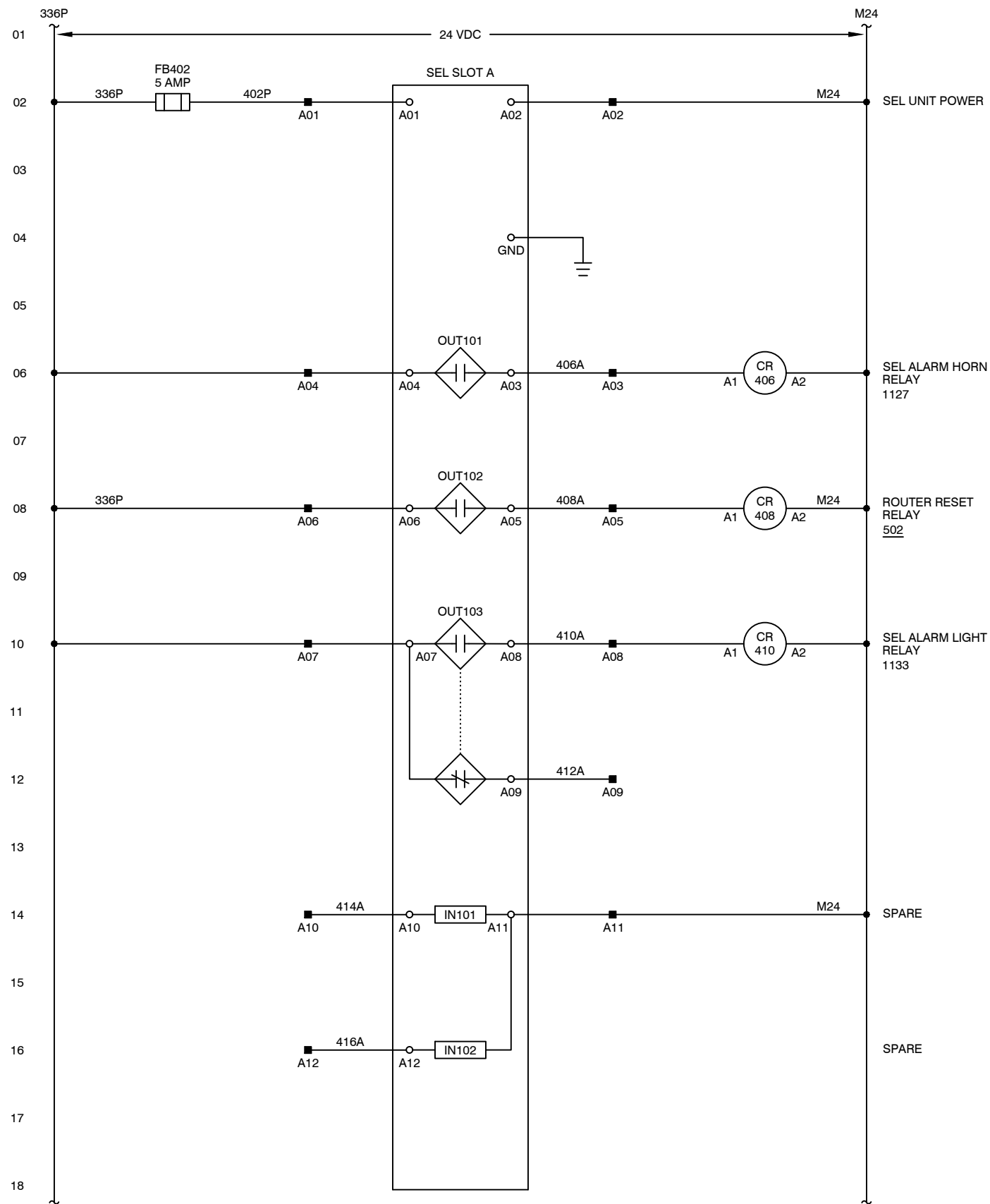
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LIFT STATION
PUMP CONTROL RTU

SCHEMATIC DIAGRAM

BRUNSWICK, GEORGIA
GLYNN COUNTY

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Trussville, Alabama 35173
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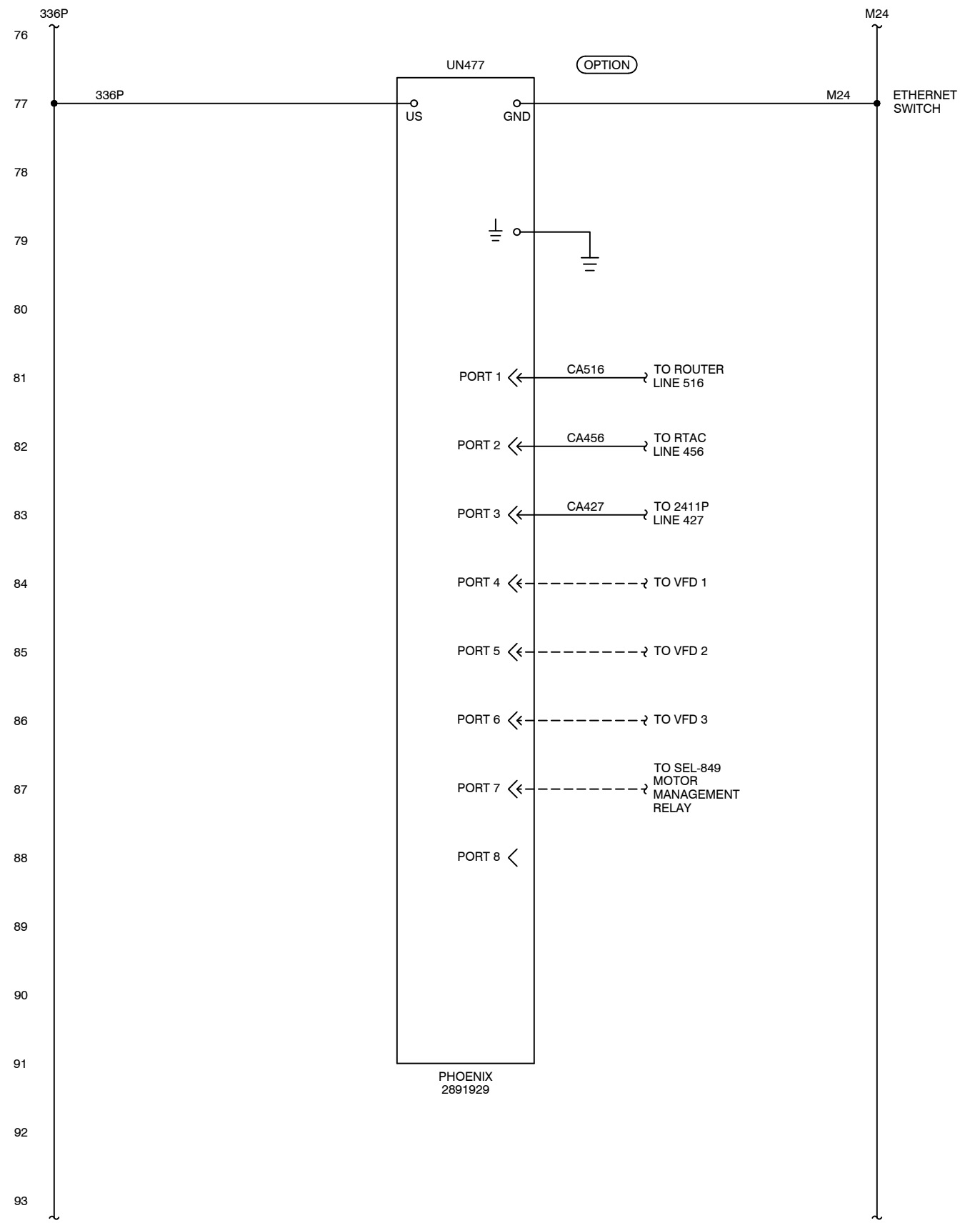
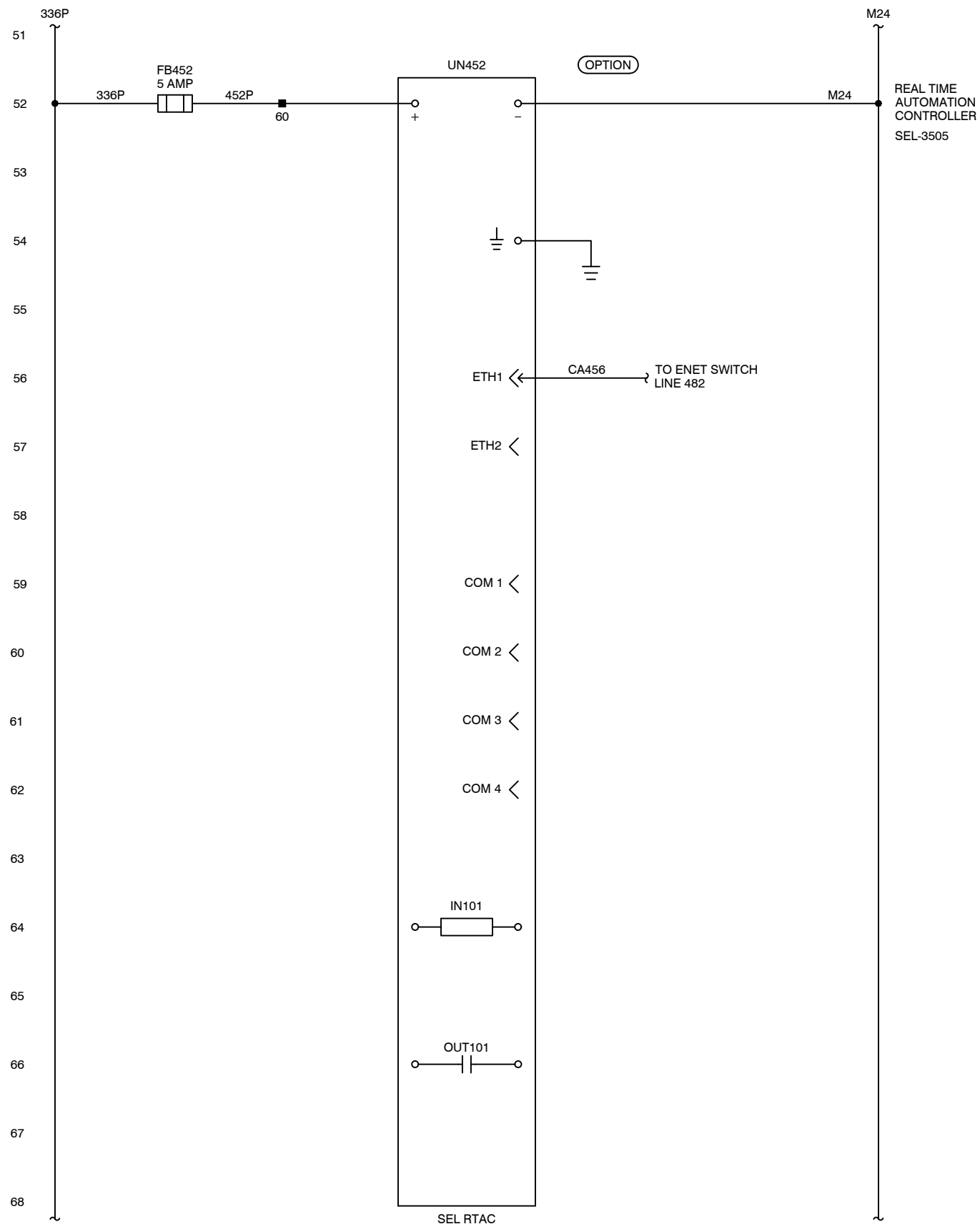


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Customer:

BRUNSWICK, GEORGIA
GLYNN COUNTY

Electric Machine Control, Inc.

Trussville, Alabama 35173
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Date: 7/22/20

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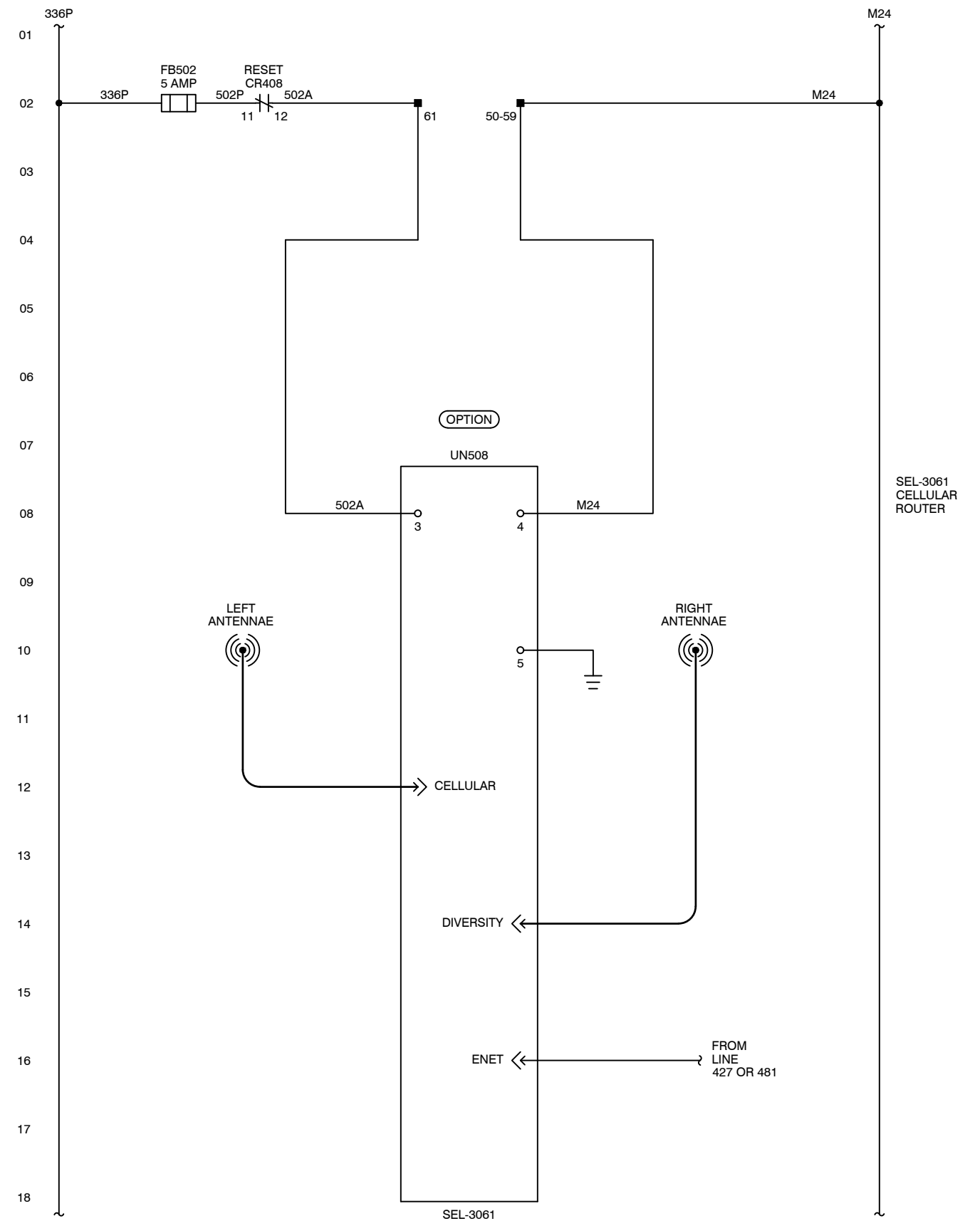
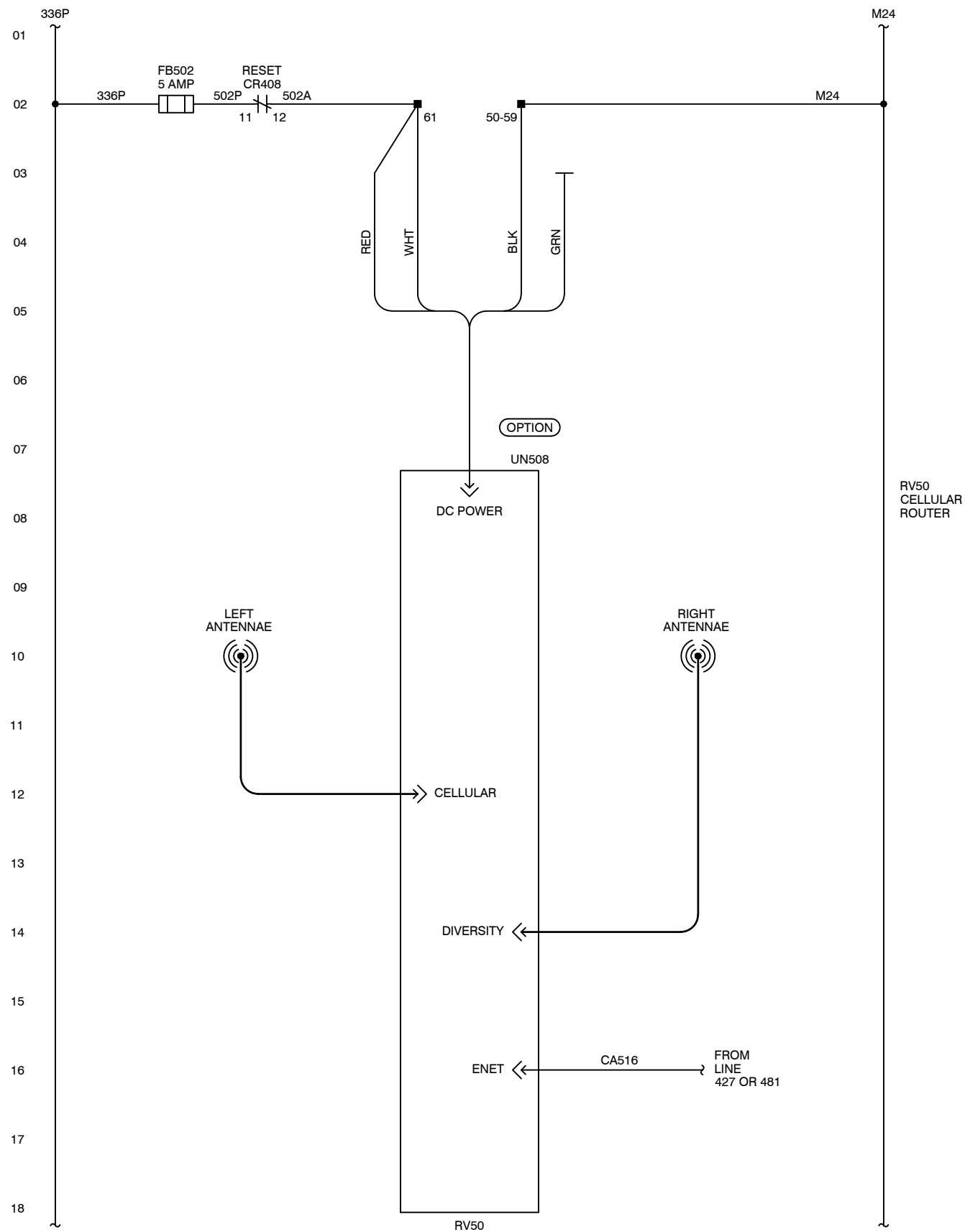
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Rev: 3

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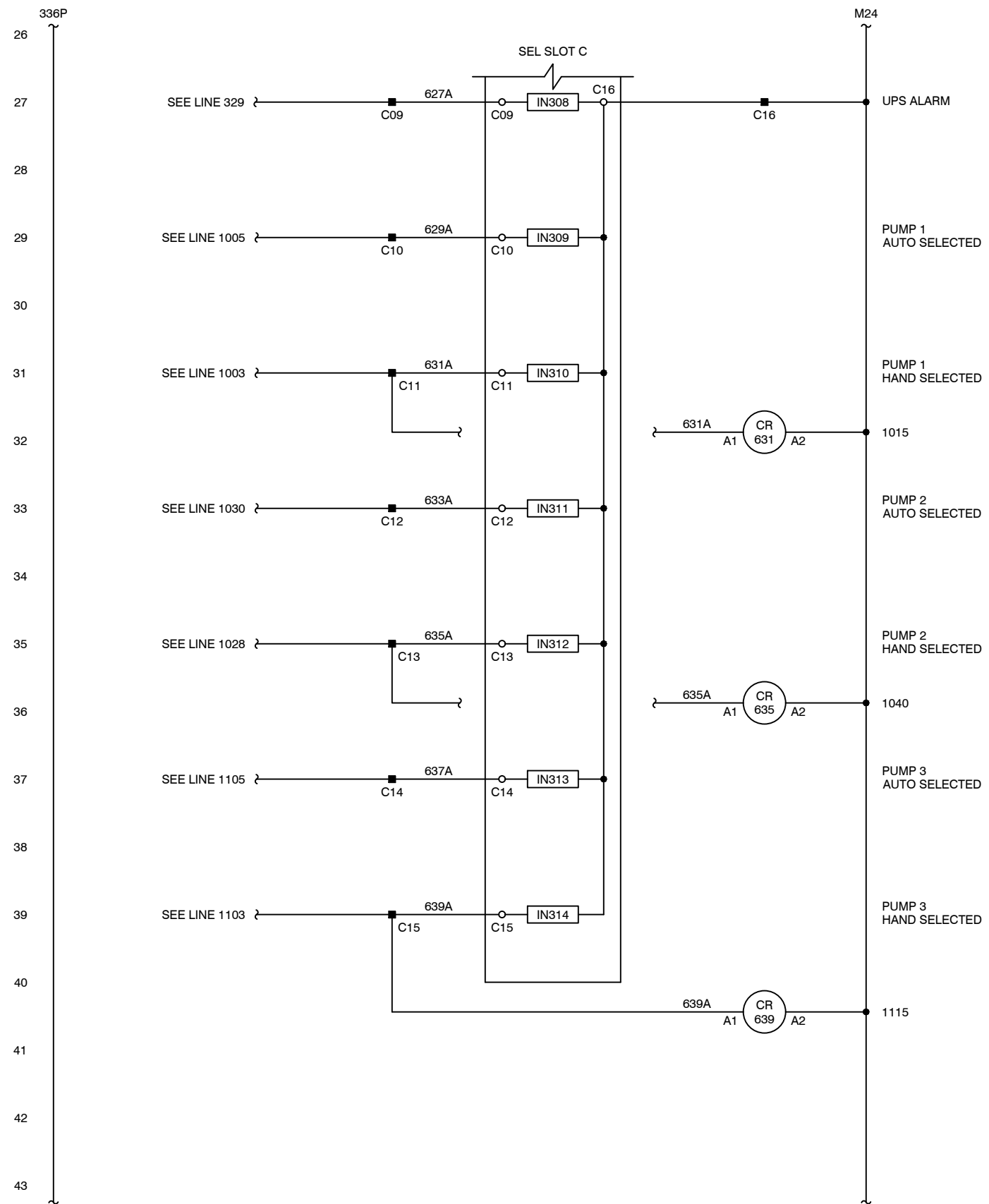
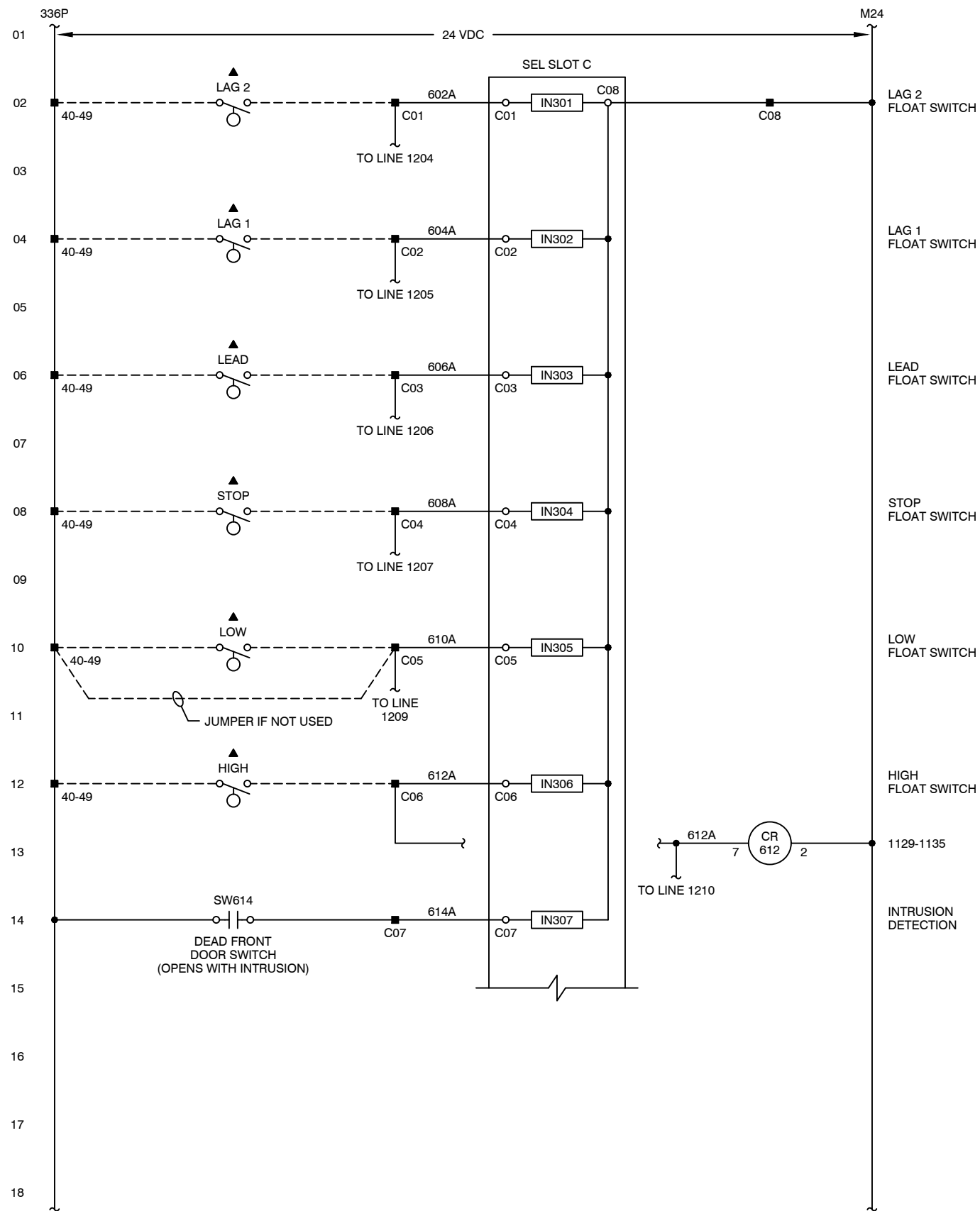
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5



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SCHEMATIC DIAGRAM

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GLYNN COUNTY

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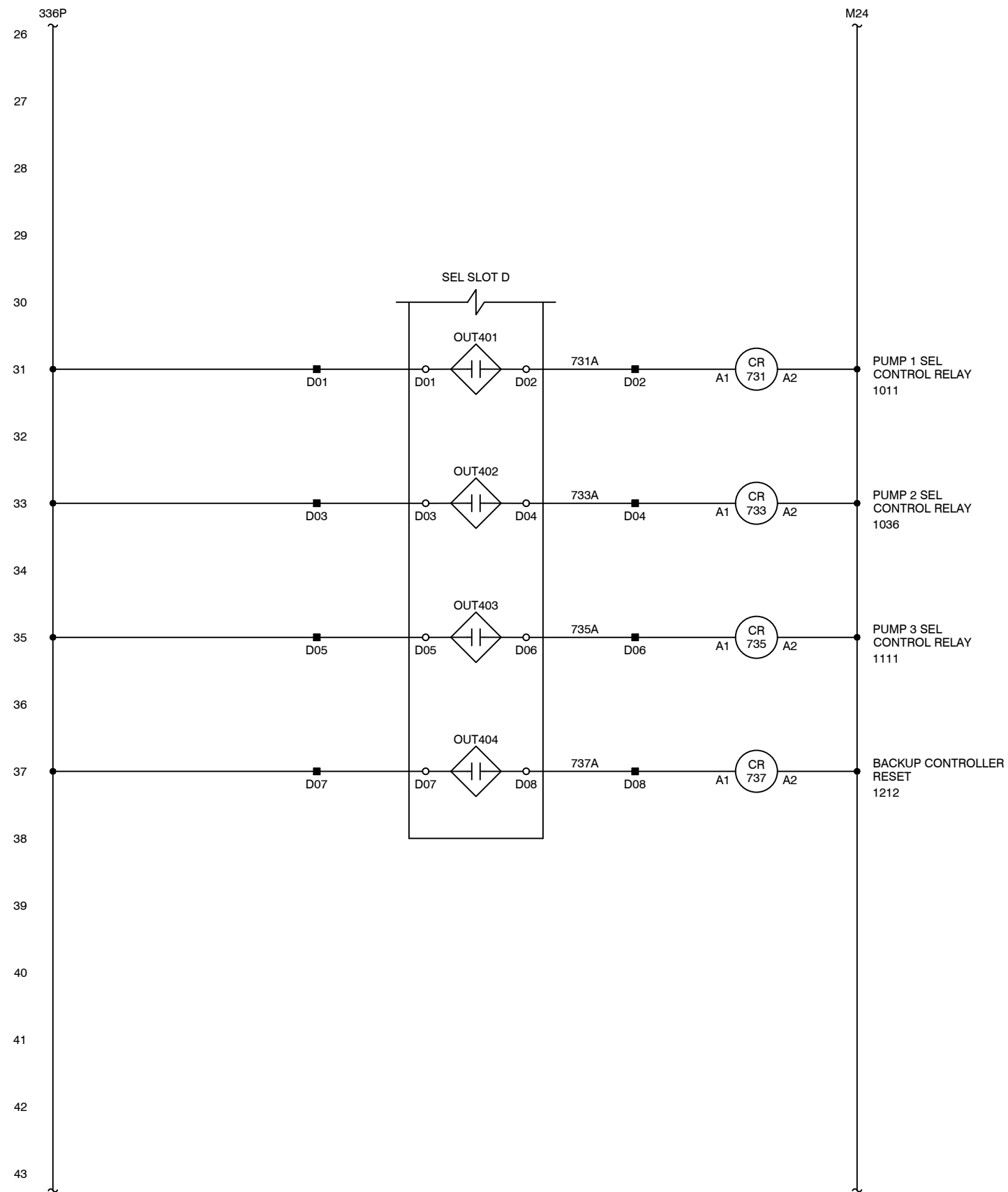
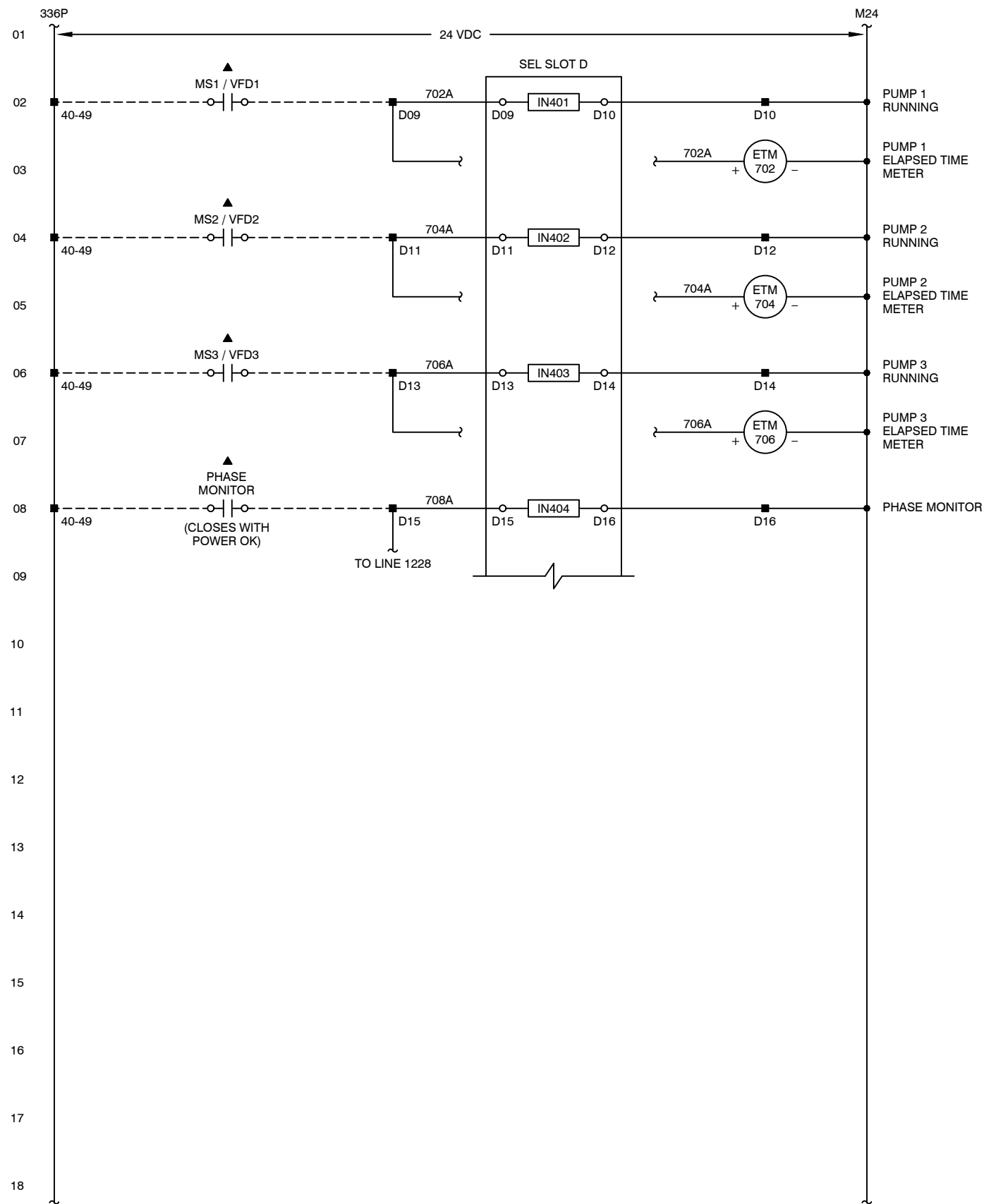


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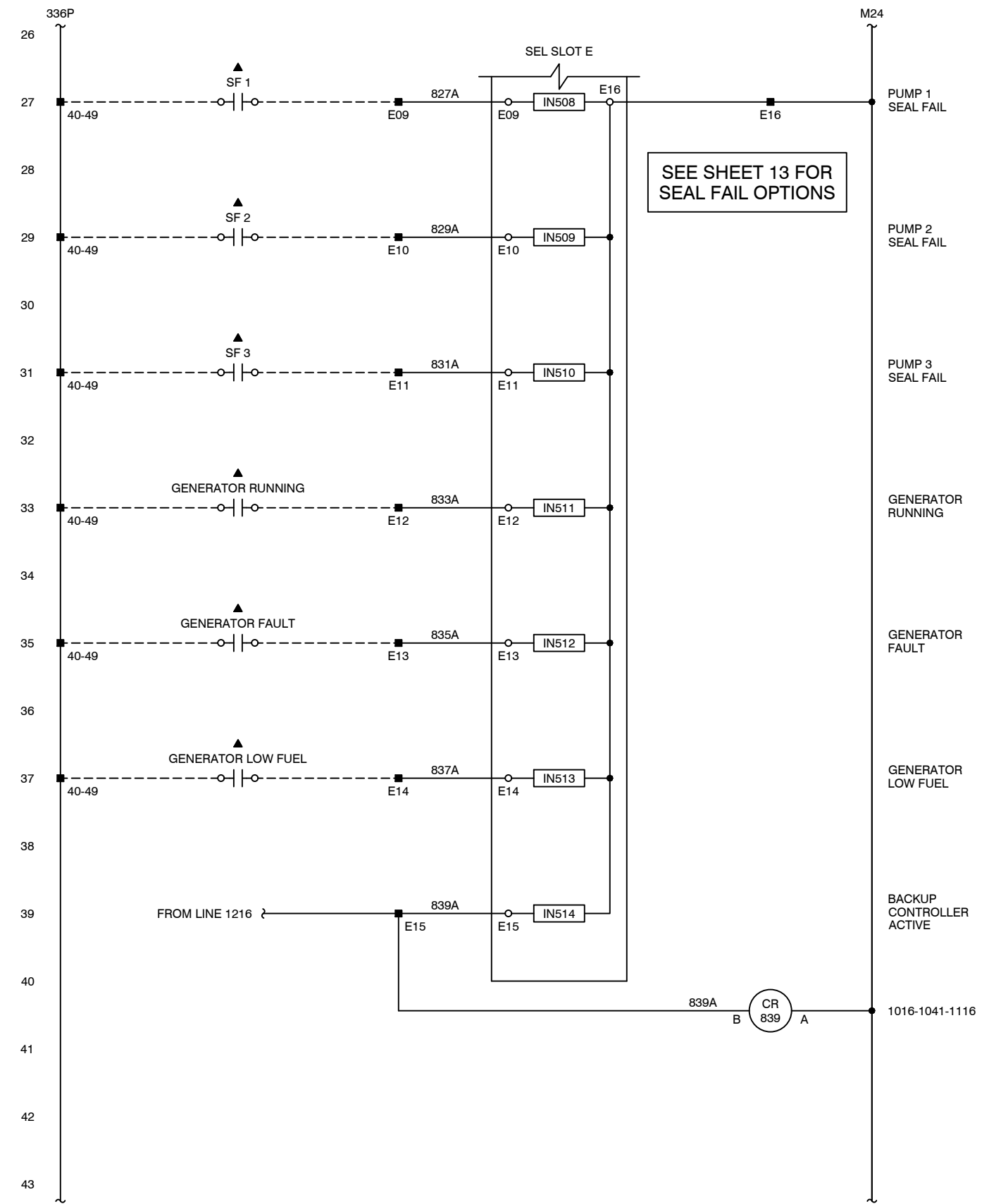
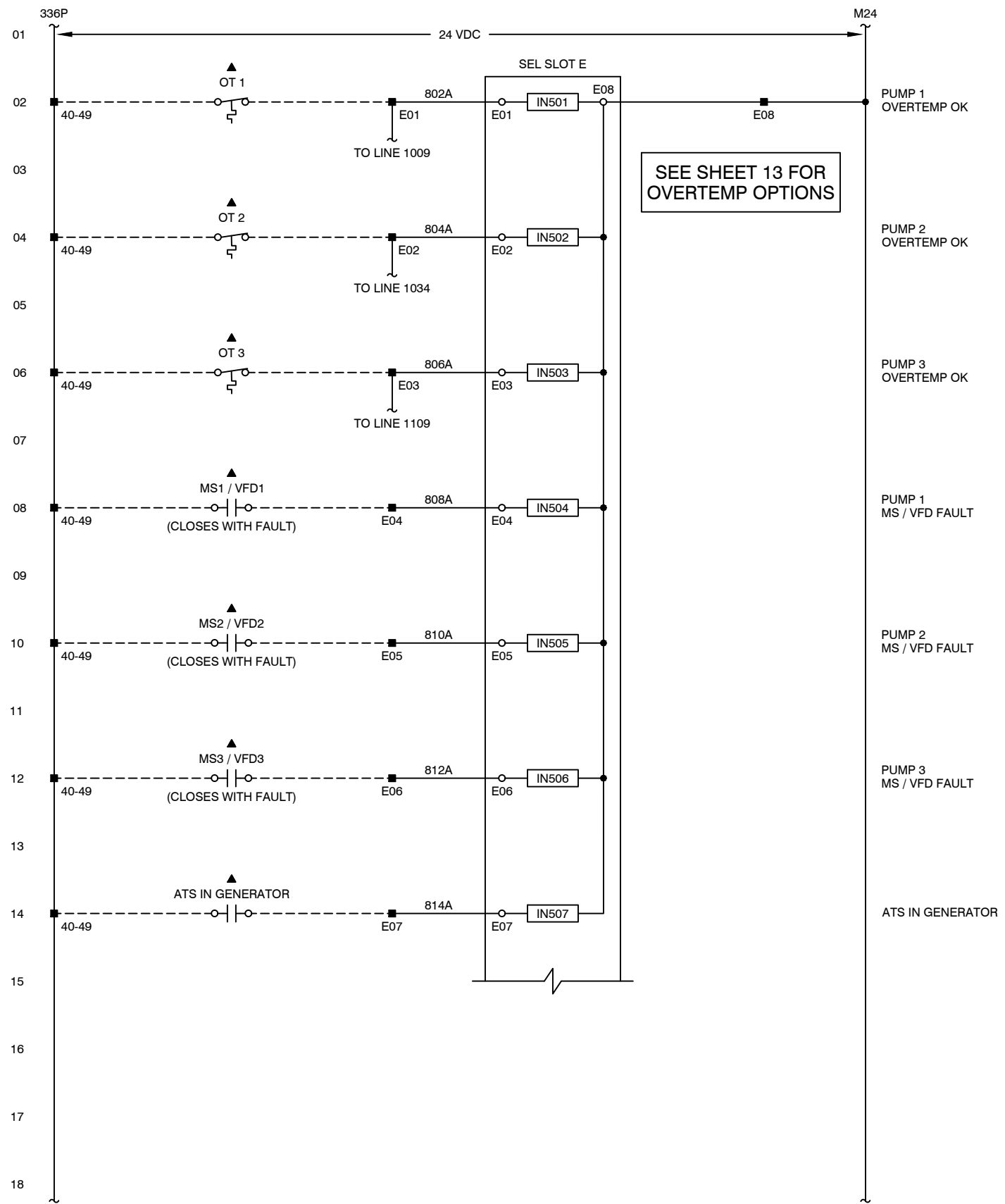
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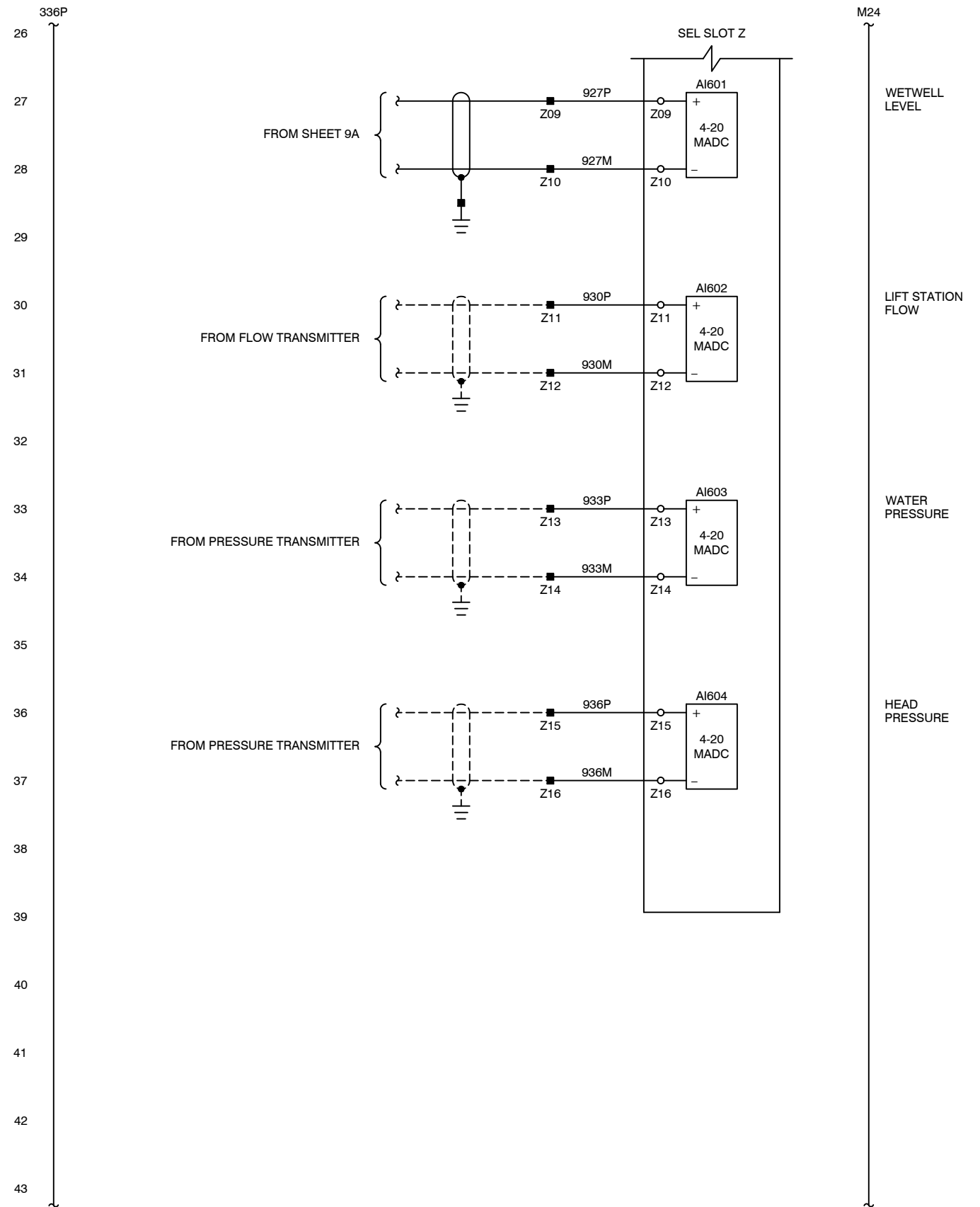
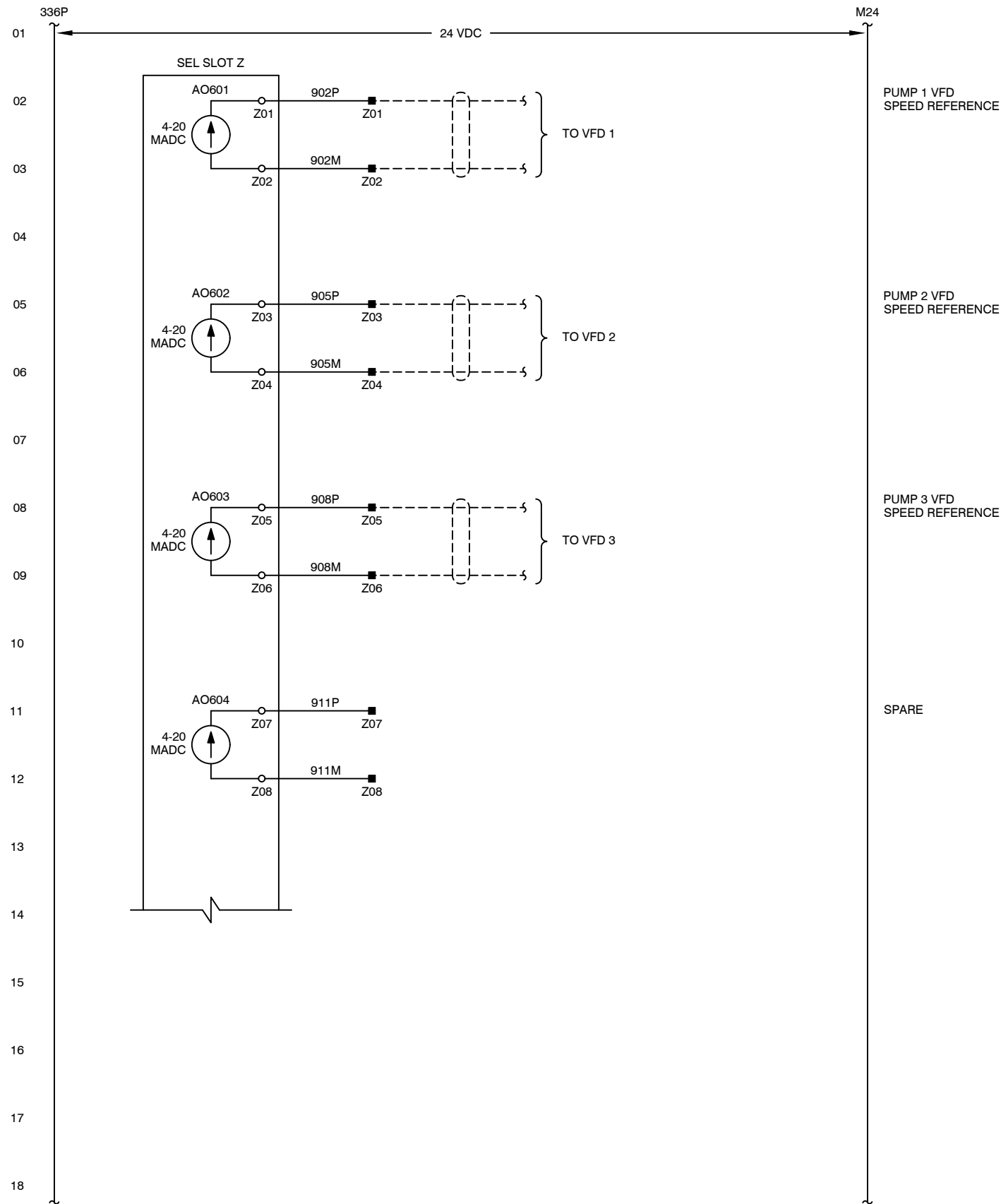
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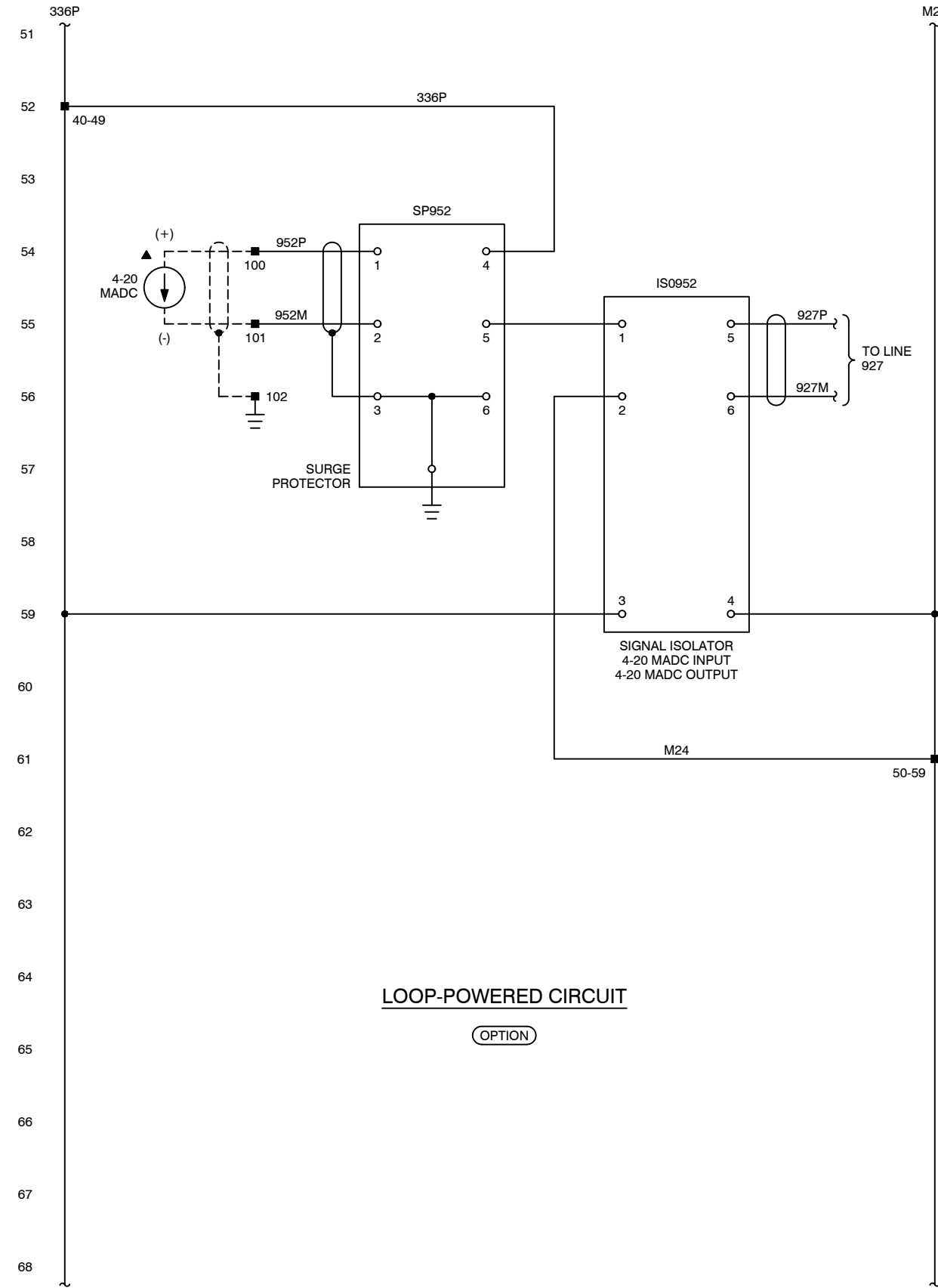
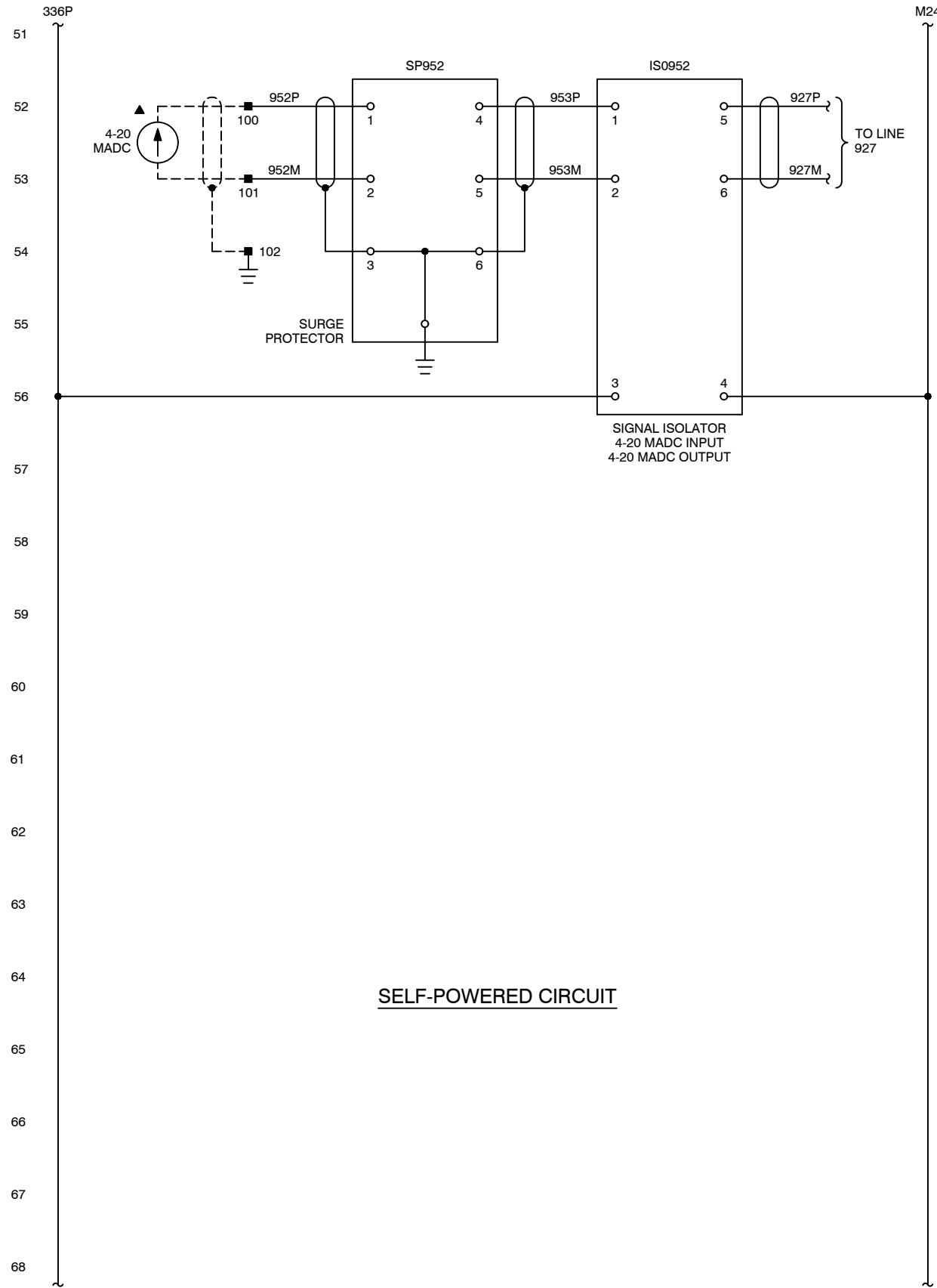
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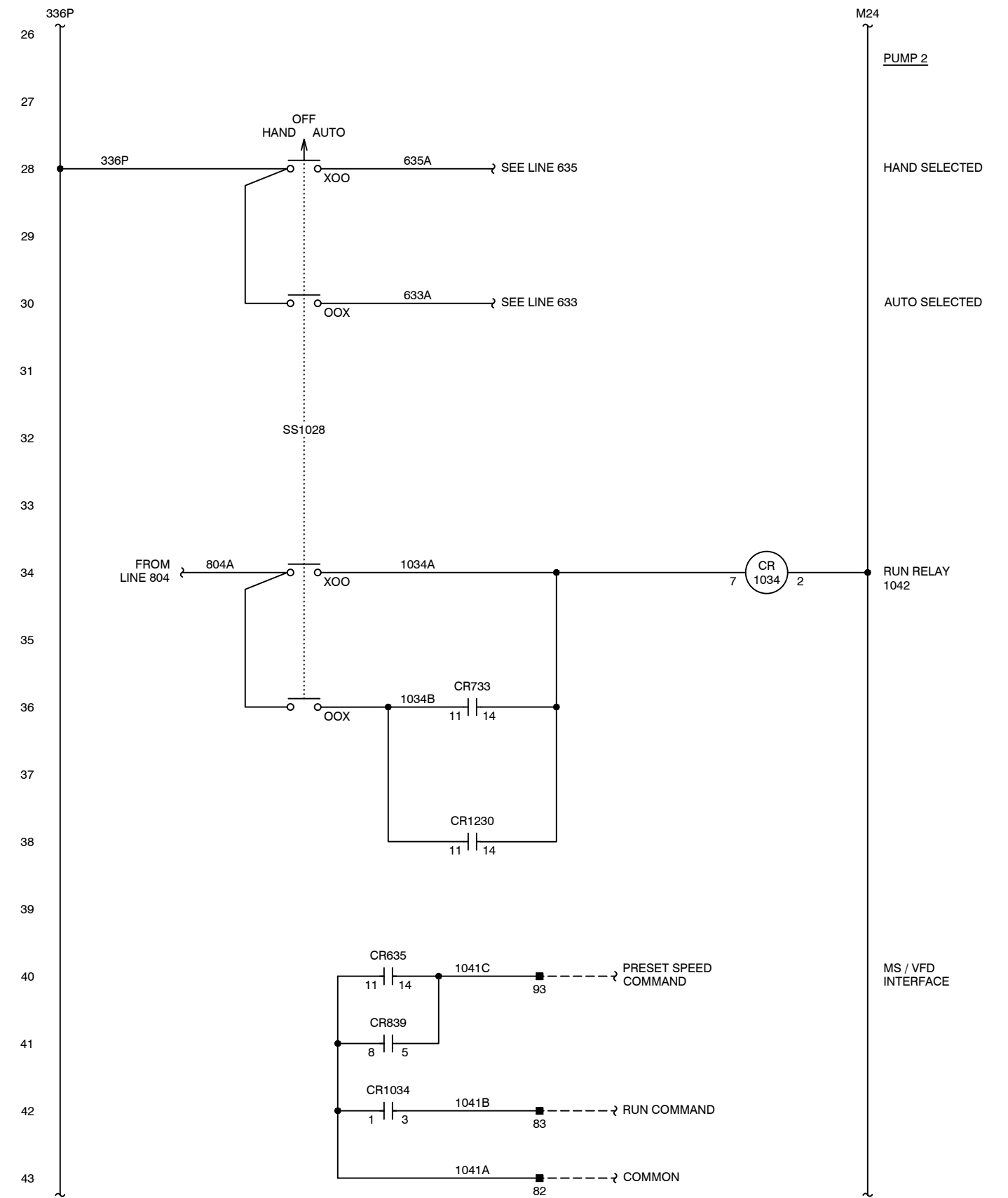
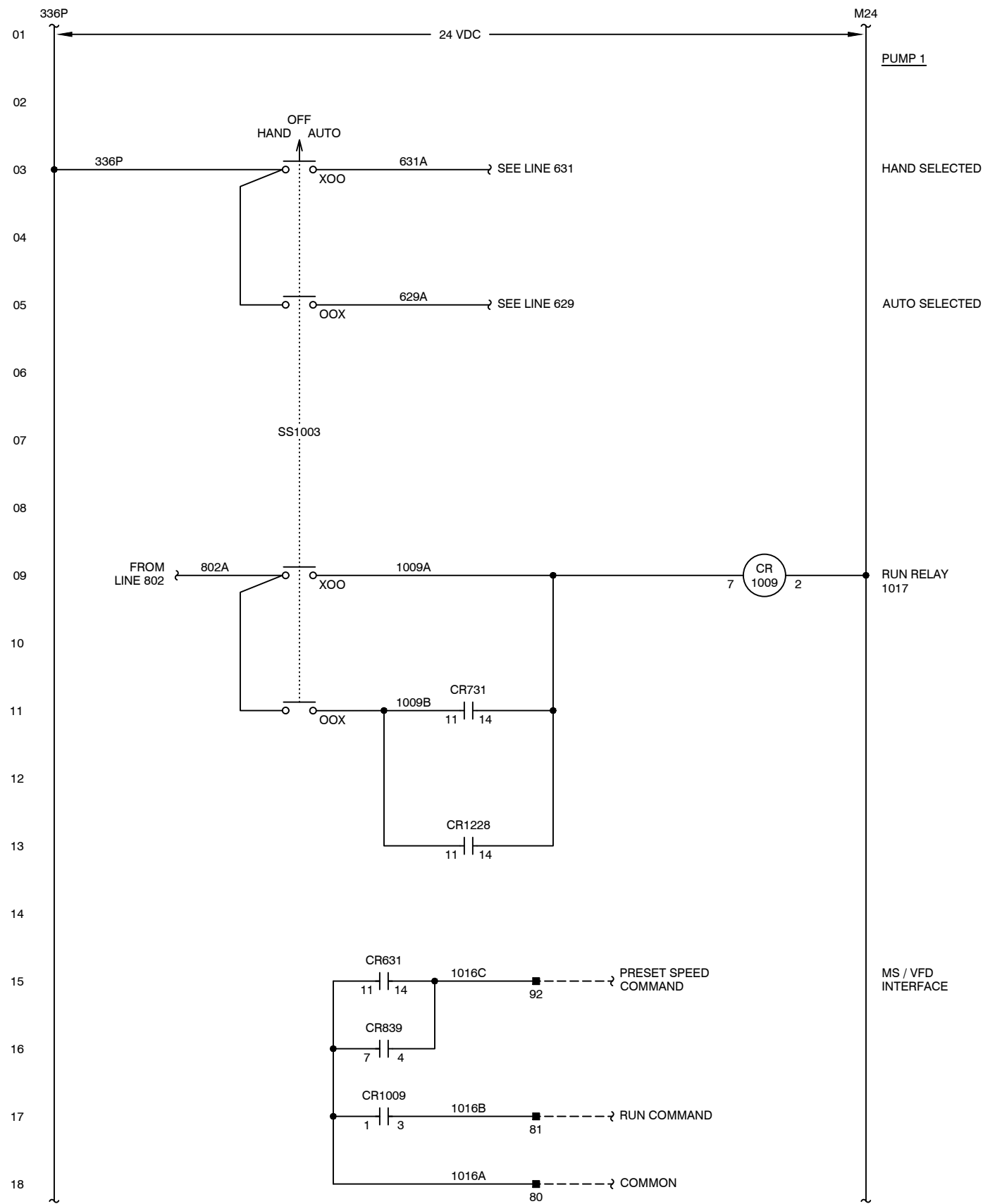
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 Scale: NONE Rev: 3

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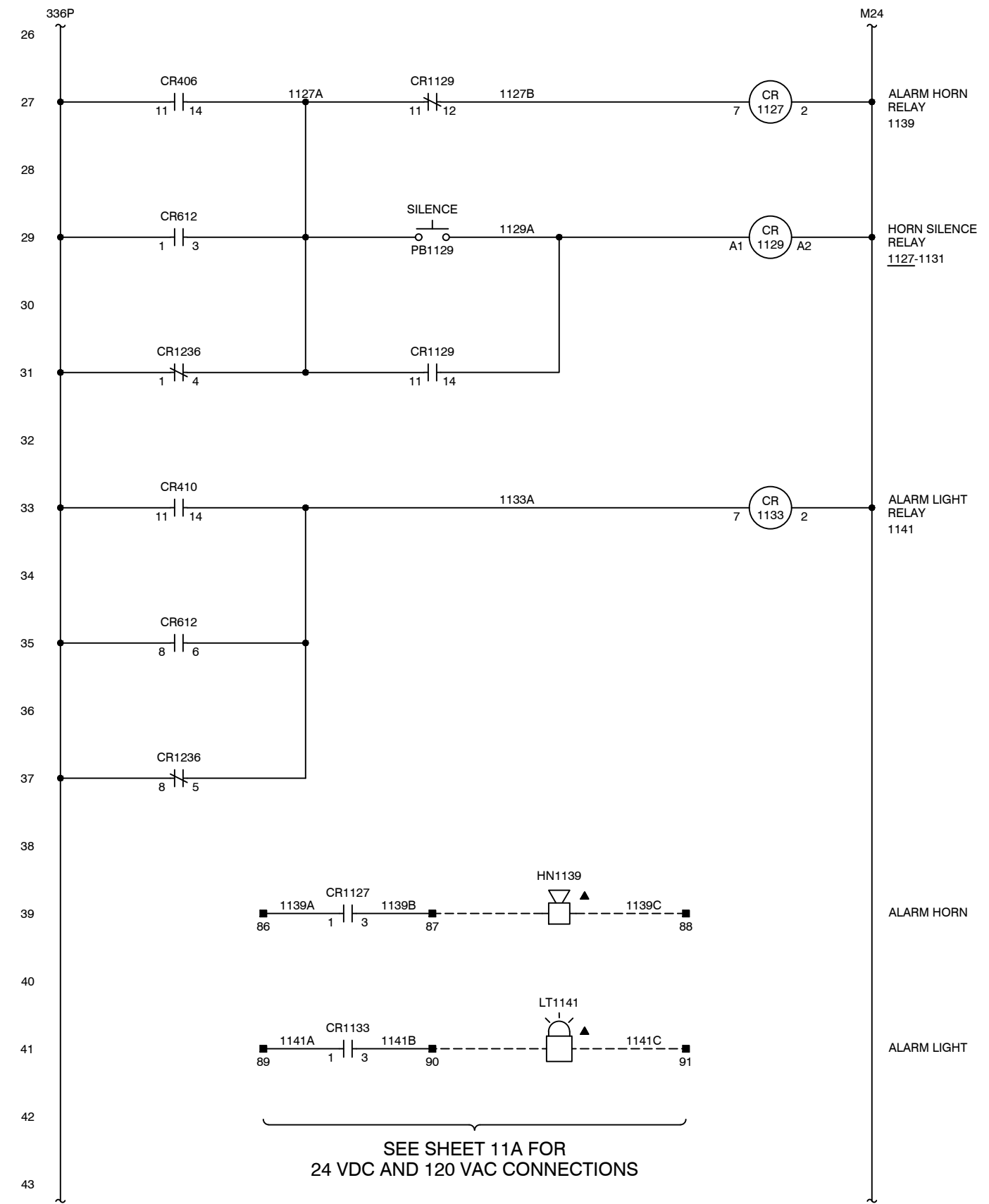
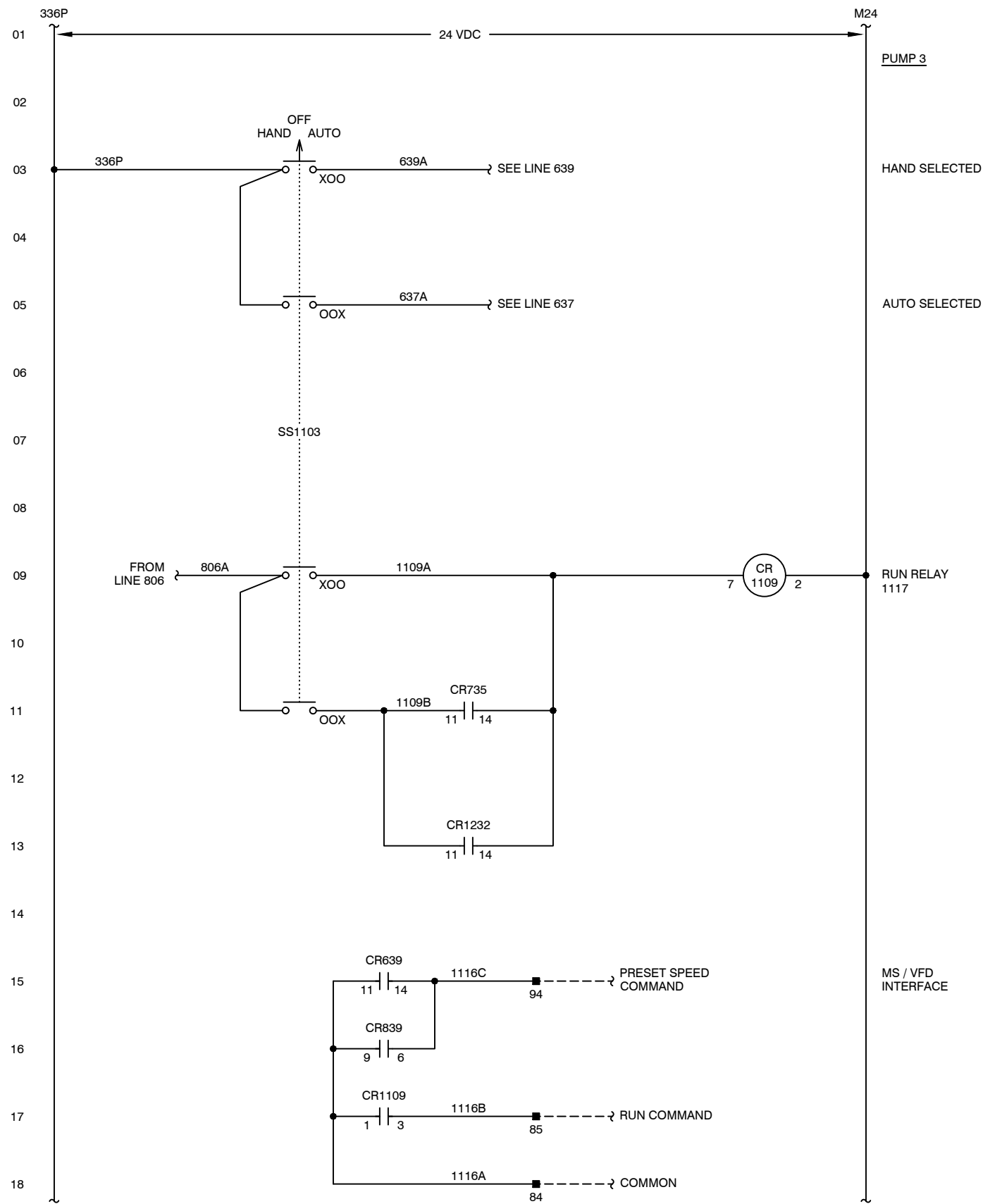
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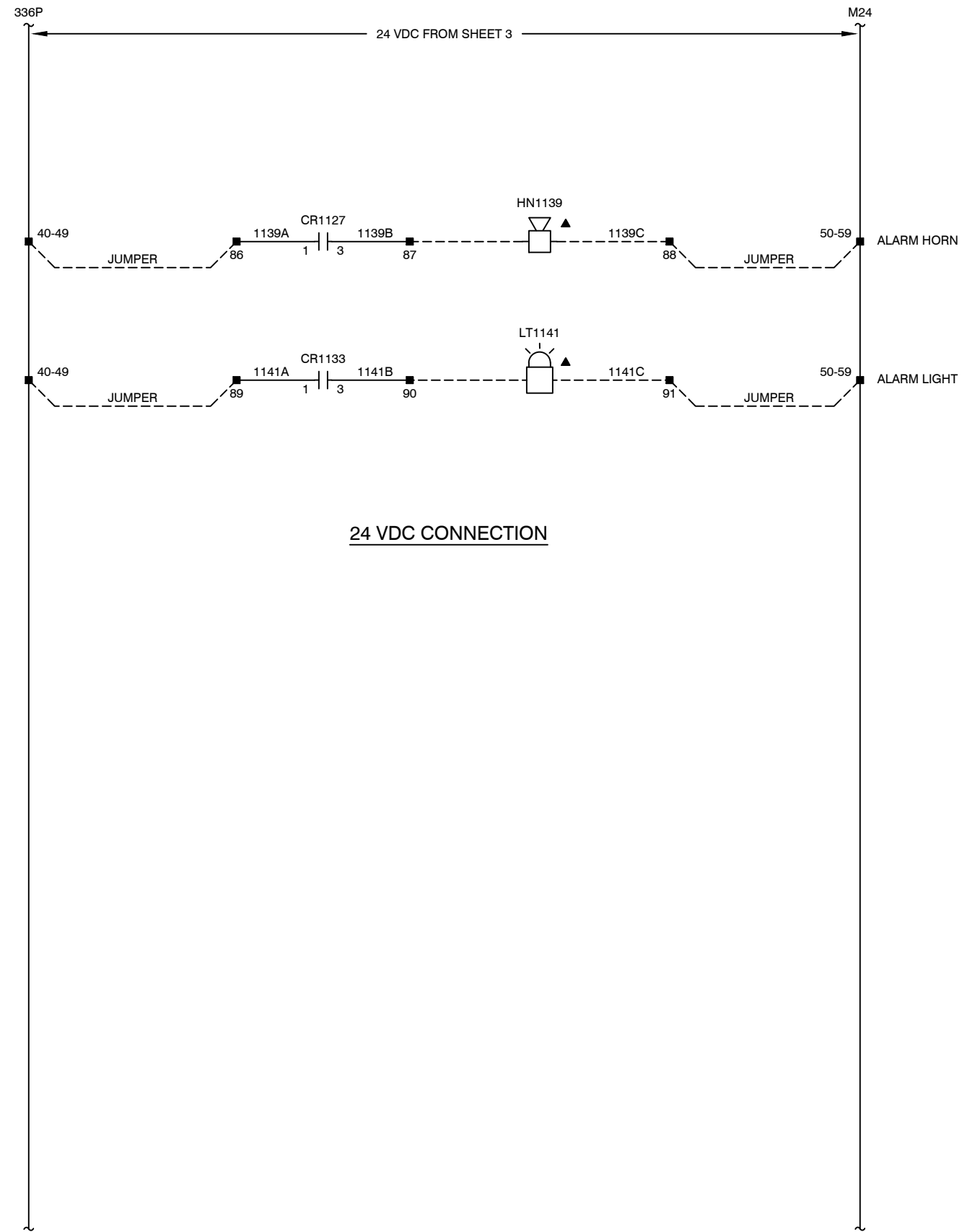
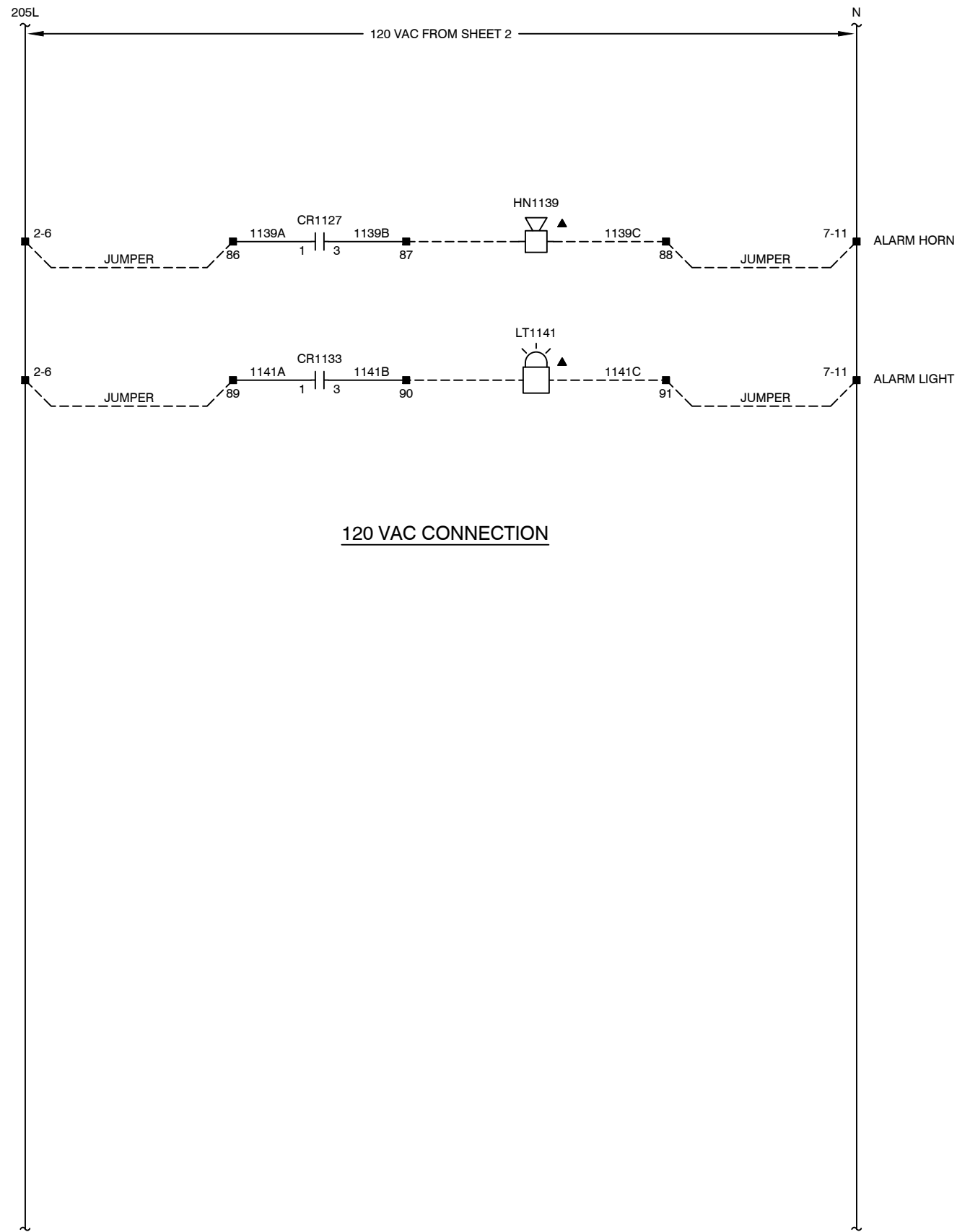
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11



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PUMP CONTROL RTU

Title:
SCHEMATIC DIAGRAM

Customer:
BRUNSWICK, GEORGIA
GLYNN COUNTY

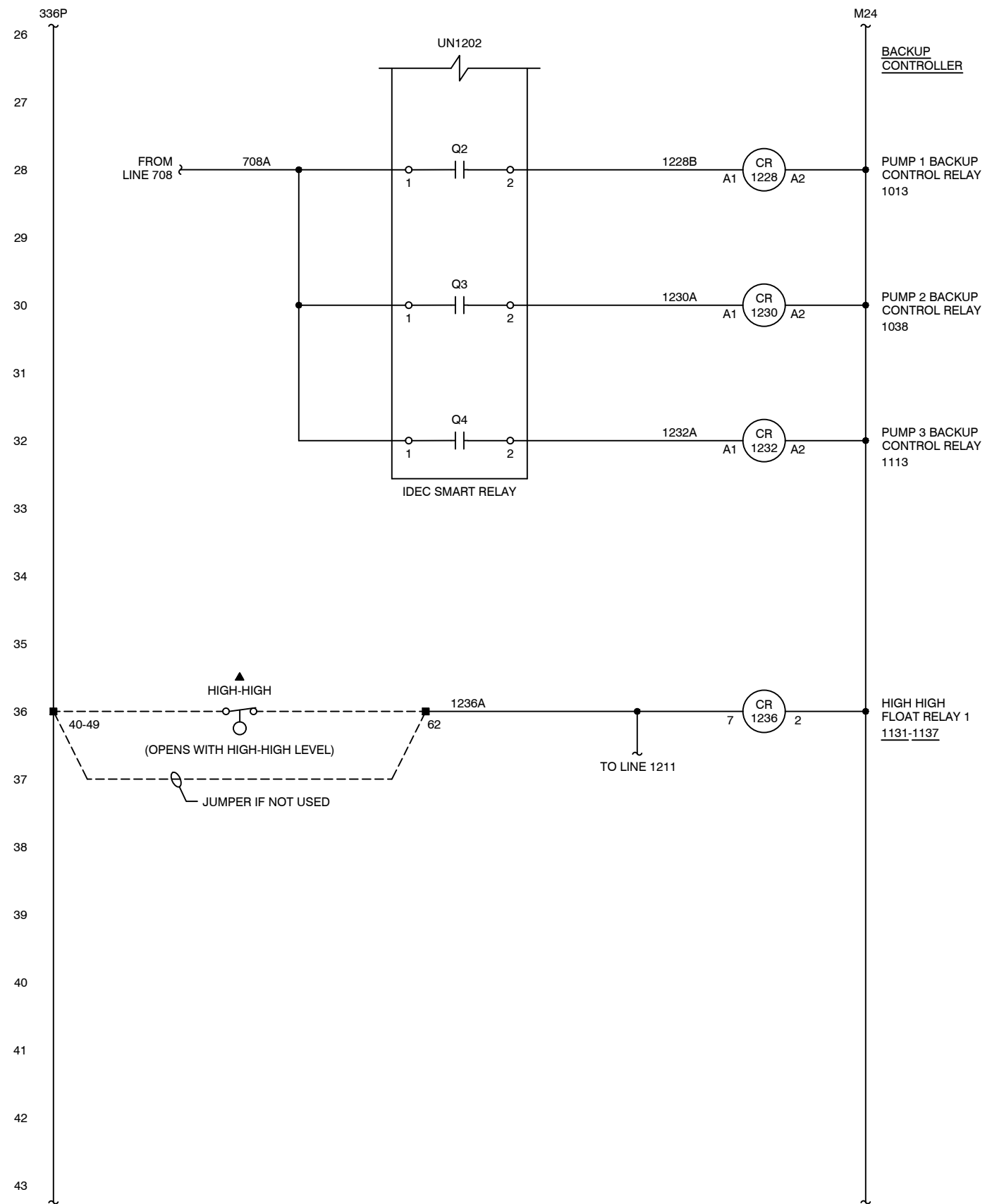
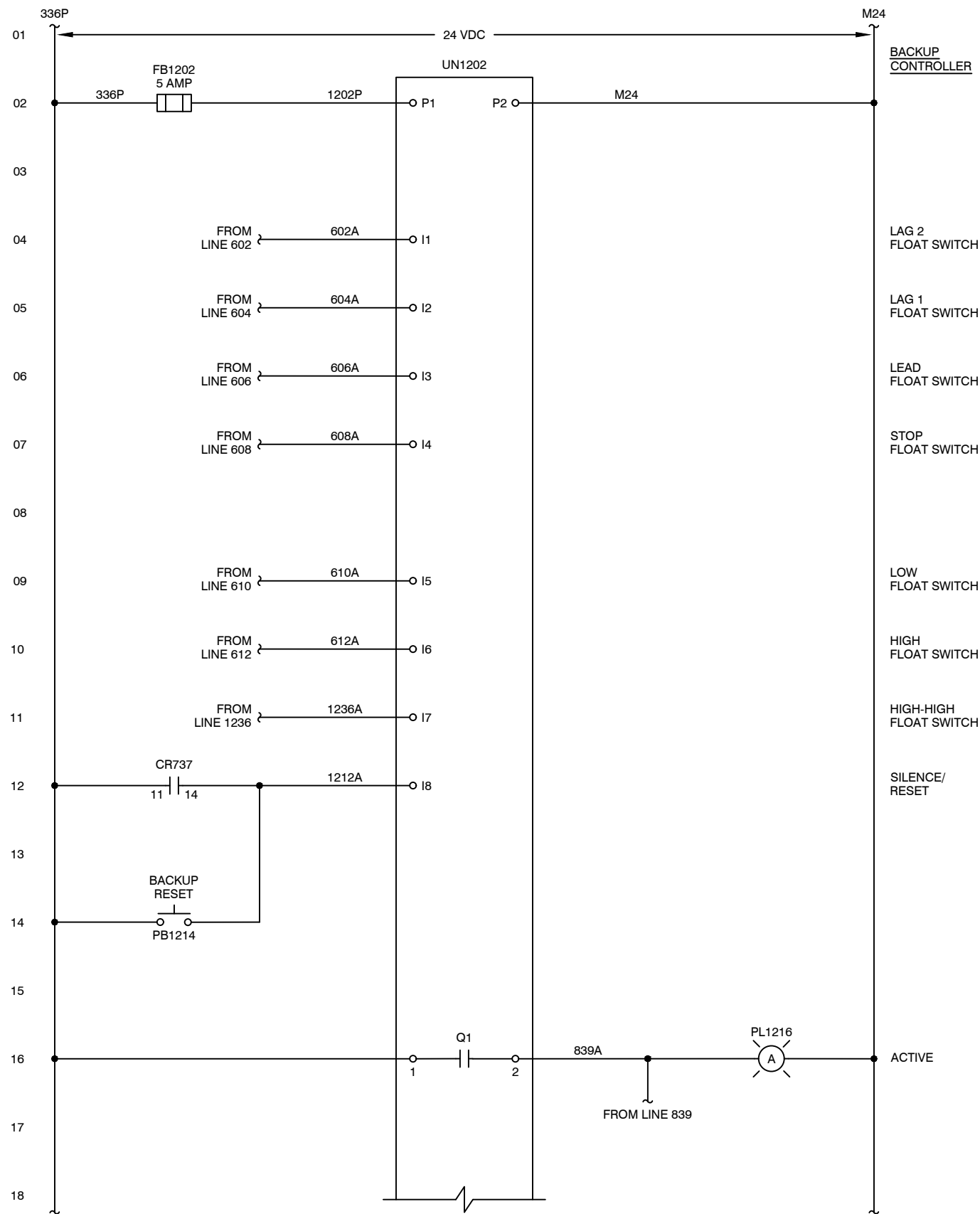
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Equipment:

LIFT STATION PUMP CONTROL RTU

Title:

SCHEMATIC DIAGRAM

Customer:

BRUNSWICK, GEORGIA
GLYNN COUNTY

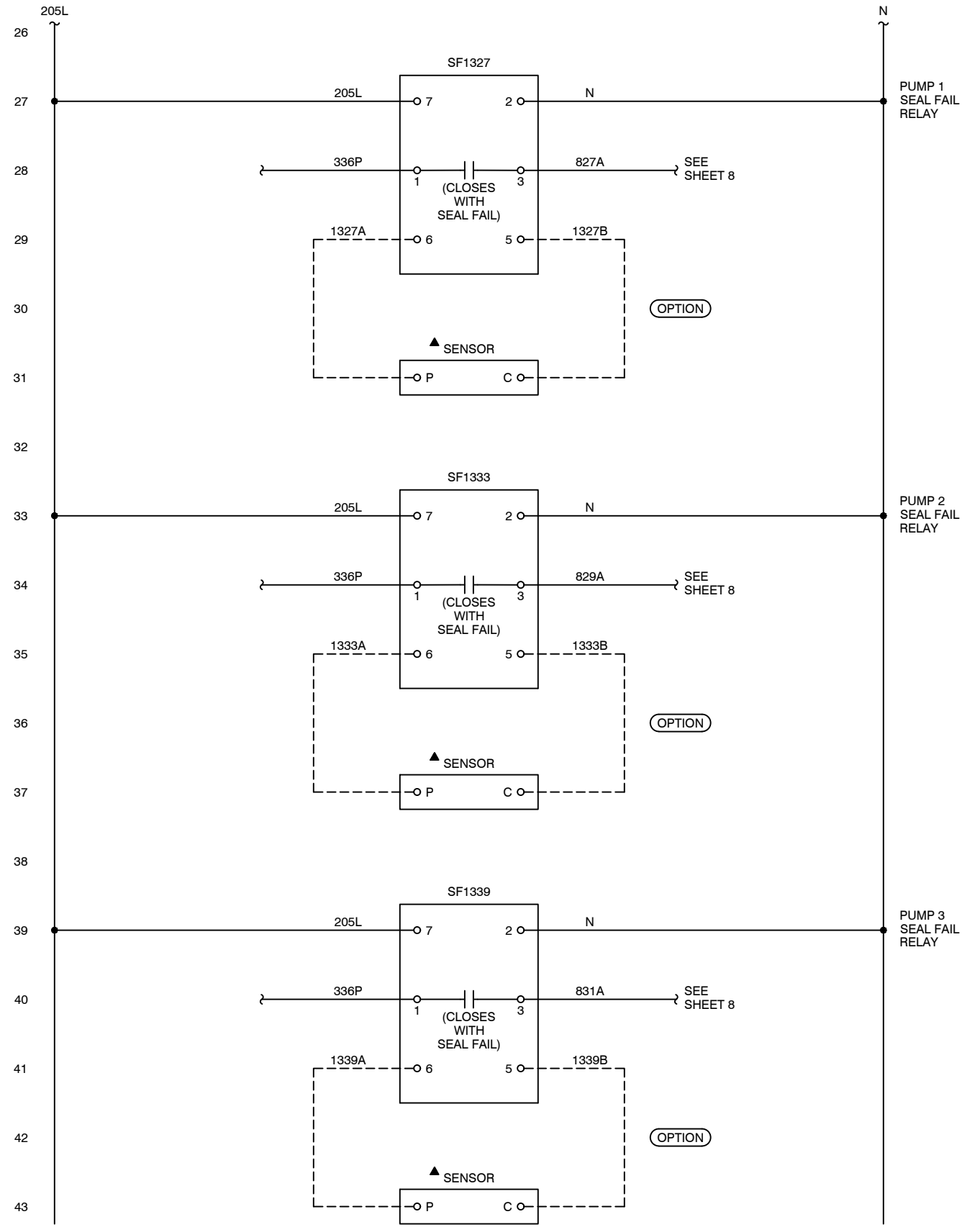
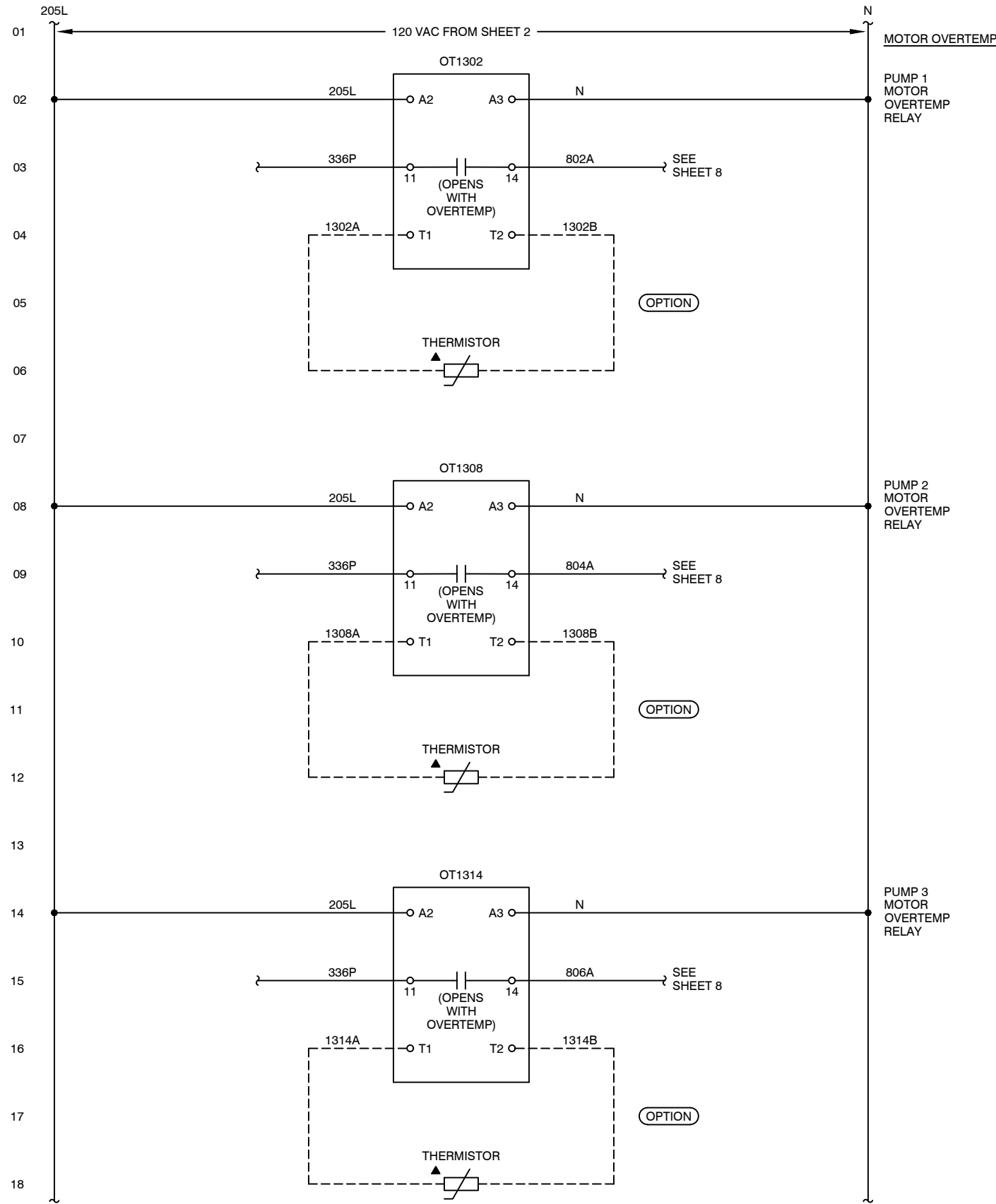
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Title:
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Customer:
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 GLYNN COUNTY

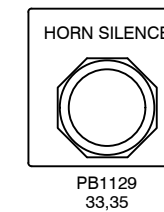
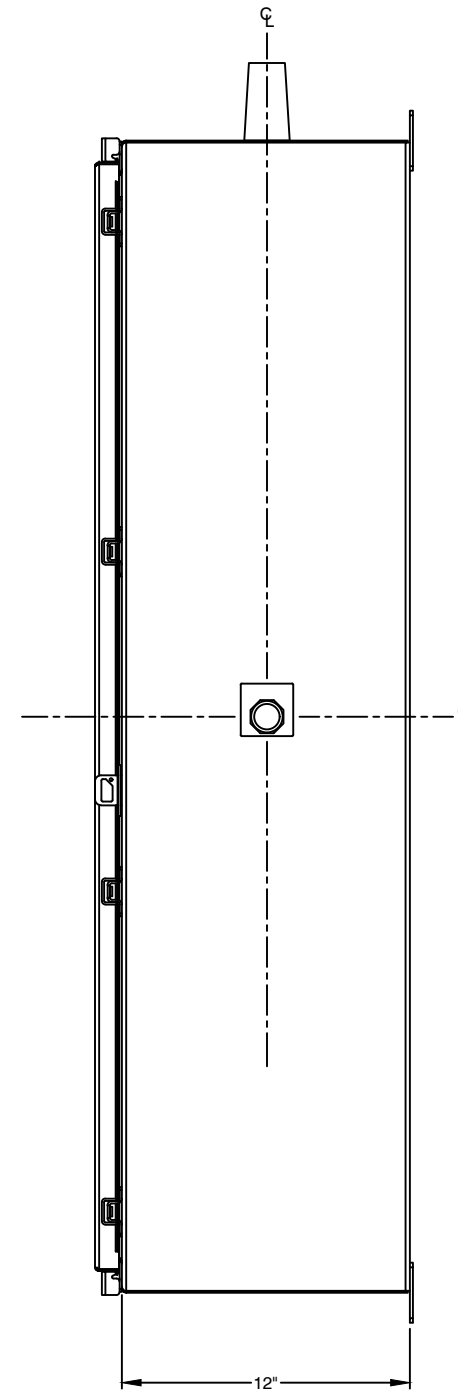
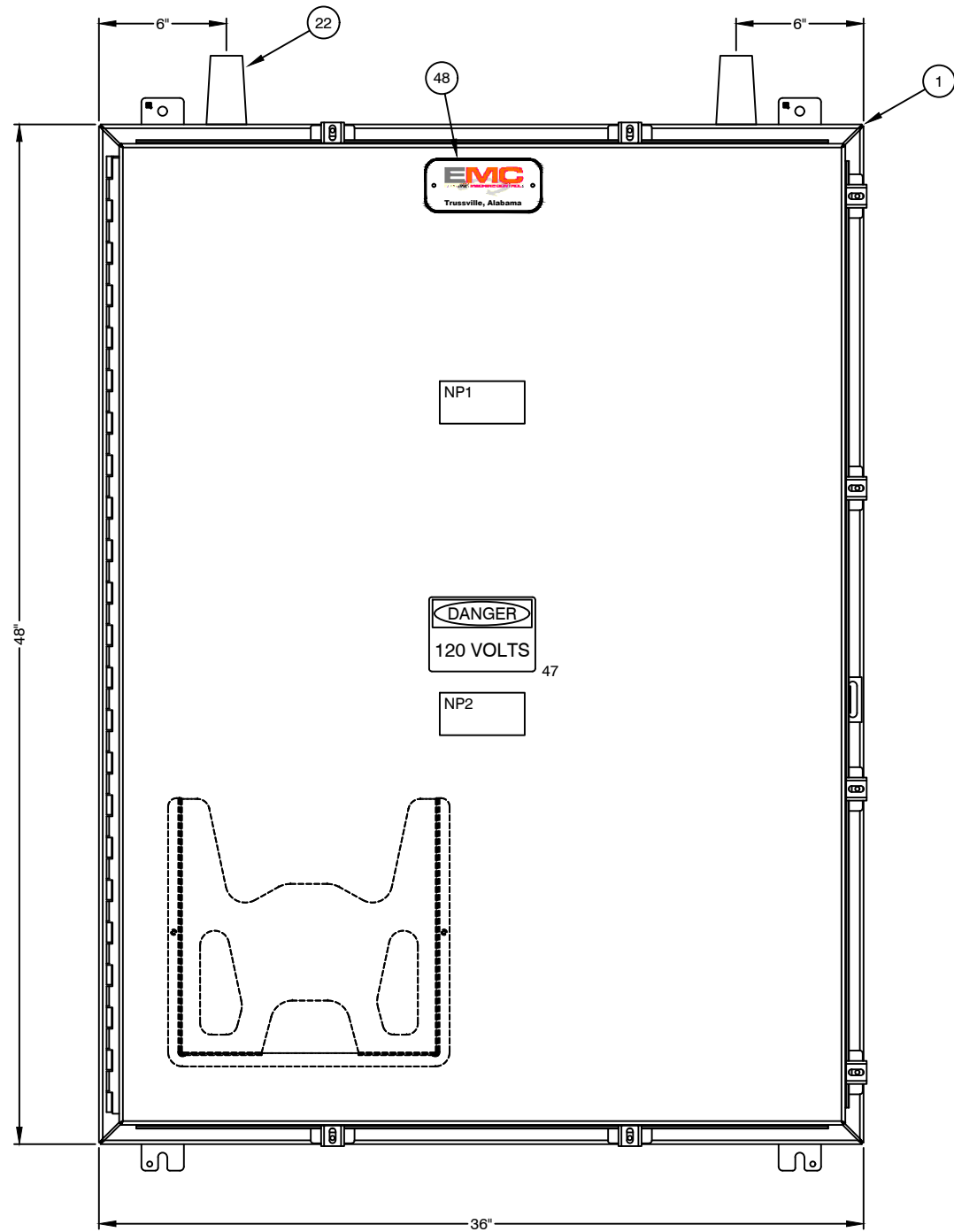
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Sheet:
 13



LIFT STATION
PUMP CONTROL RTU

BRUNSWICK, GEORGIA
GLYNN COUNTY


NP1

MODEL RTU76
SERIAL NO. _

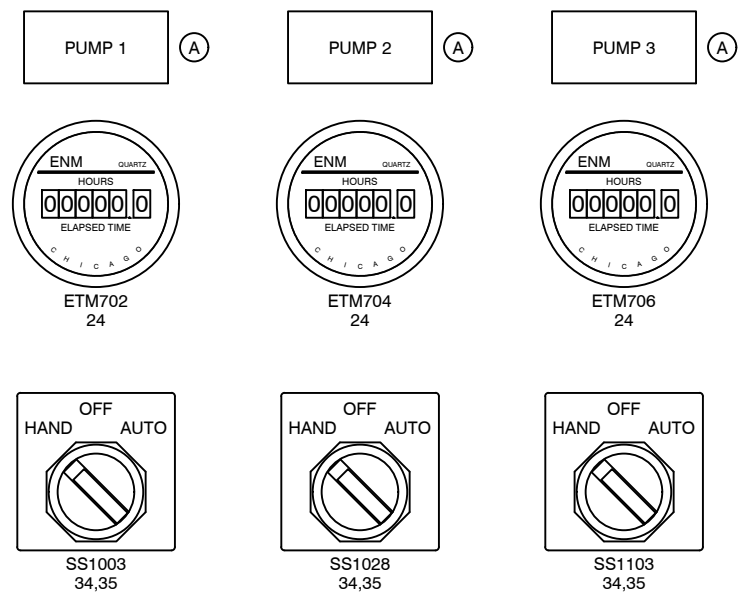
120 VAC 1 PHASE 60 HZ
FULL LOAD AMPS: 5
UL TYPE 4X ENCLOSURE

NP2

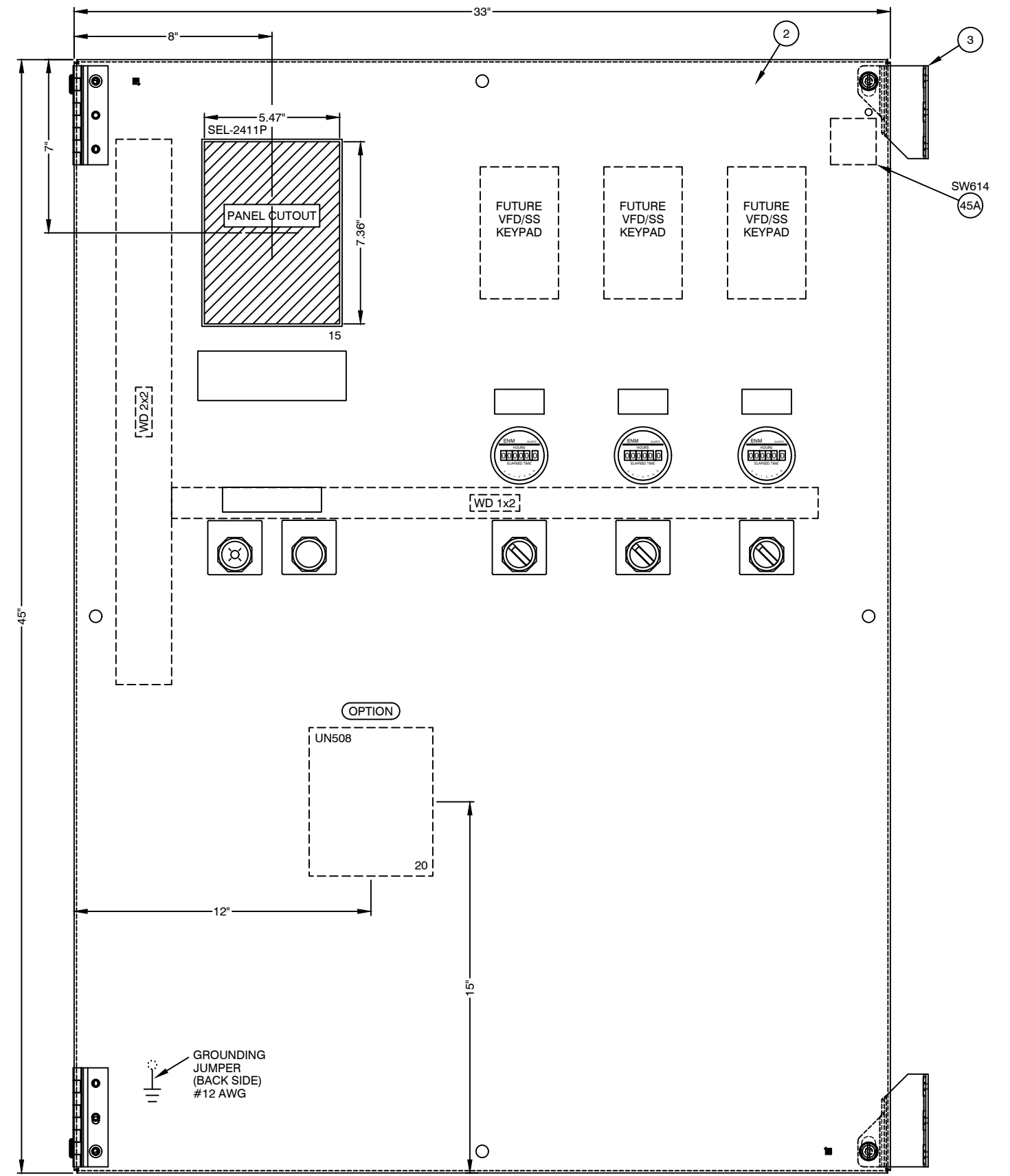
- (A) = 1" x 2" W-B-W NAMEPLATE
- (B) = 1" x 4" W-B-W NAMEPLATE
- (C) = 2" x 4" W-B-W NAMEPLATE


Notes:	Equipment:	Title:	Customer:	Electric Machine Control, Inc. Trussville, Alabama 35173 205-661-3998		Date: 7/22/20	Drawing No.	Sheet:
<small>ELECTRIC MACHINE CONTROL INC. considers this document to be proprietary and therefore prohibits any person to reproduce or disclose it in whole or part without specific written authorization.</small>	LIFT STATION PUMP CONTROL RTU	OUTLINE	BRUNSWICK, GEORGIA GLYNN COUNTY			Drawn By: J. RAMSAY	Design By: D. COOK	Appr'd By: D. COOK
						Scale: 1/8"=1"	Rev: 3	

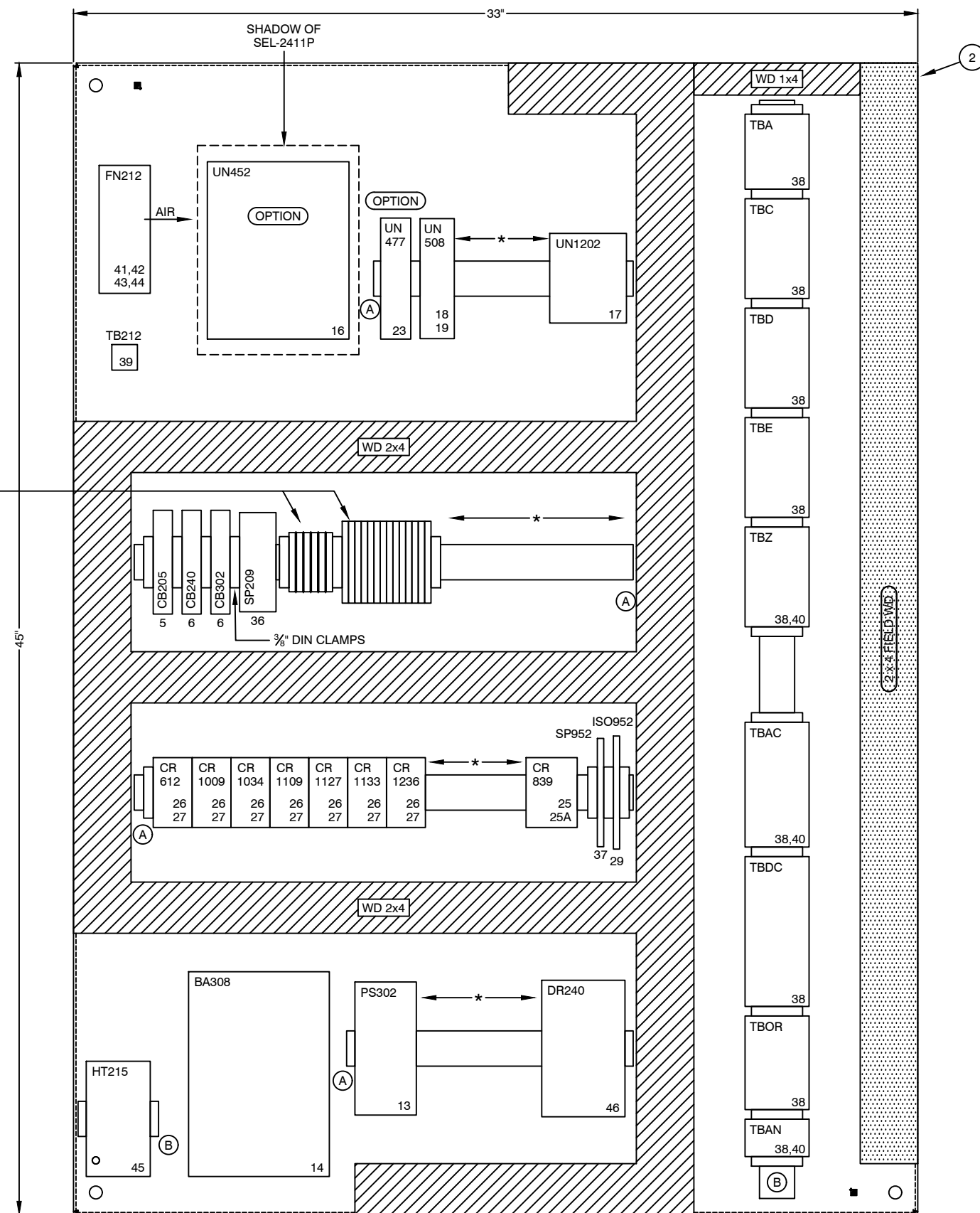
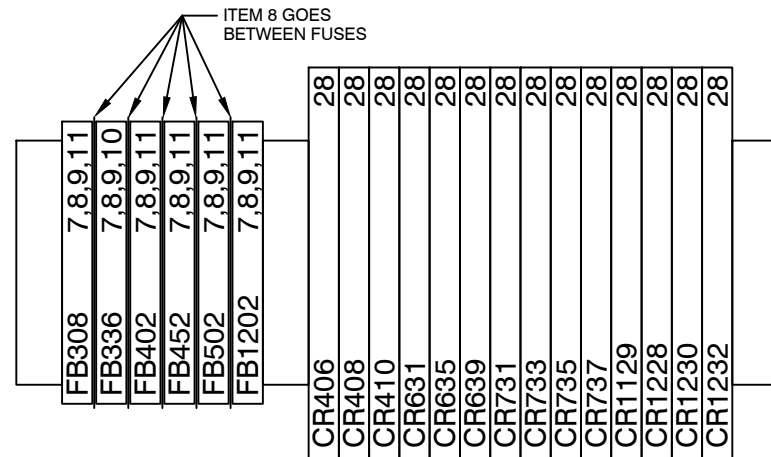
LEGEND FOR INTERPRETING "PUMP STAT" VALUES
(SEE FILE) (D)



- (A) = 1" x 2" W-B-W NAMEPLATE
- (B) = 1" x 4" W-B-W NAMEPLATE
- (C) = 2" x 4" W-B-W NAMEPLATE
- (D) = 2" x 6" W-B-W NAMEPLATE



Notes:	Equipment:	Title:	Customer:	Electric Machine Control, Inc. Trussville, Alabama 35173 205-661-3998		Date: 7/22/20	Drawing No. RTU76	Sheet: 17
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A = DIN RAIL ON 1 INCH STAND-OFFS
 B = DIN RAIL ON 2 INCH STAND-OFFS
 * = SPACE RESERVED FOR USER SUPPLIED ITEMS

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Title:
 OUTLINE

Customer:
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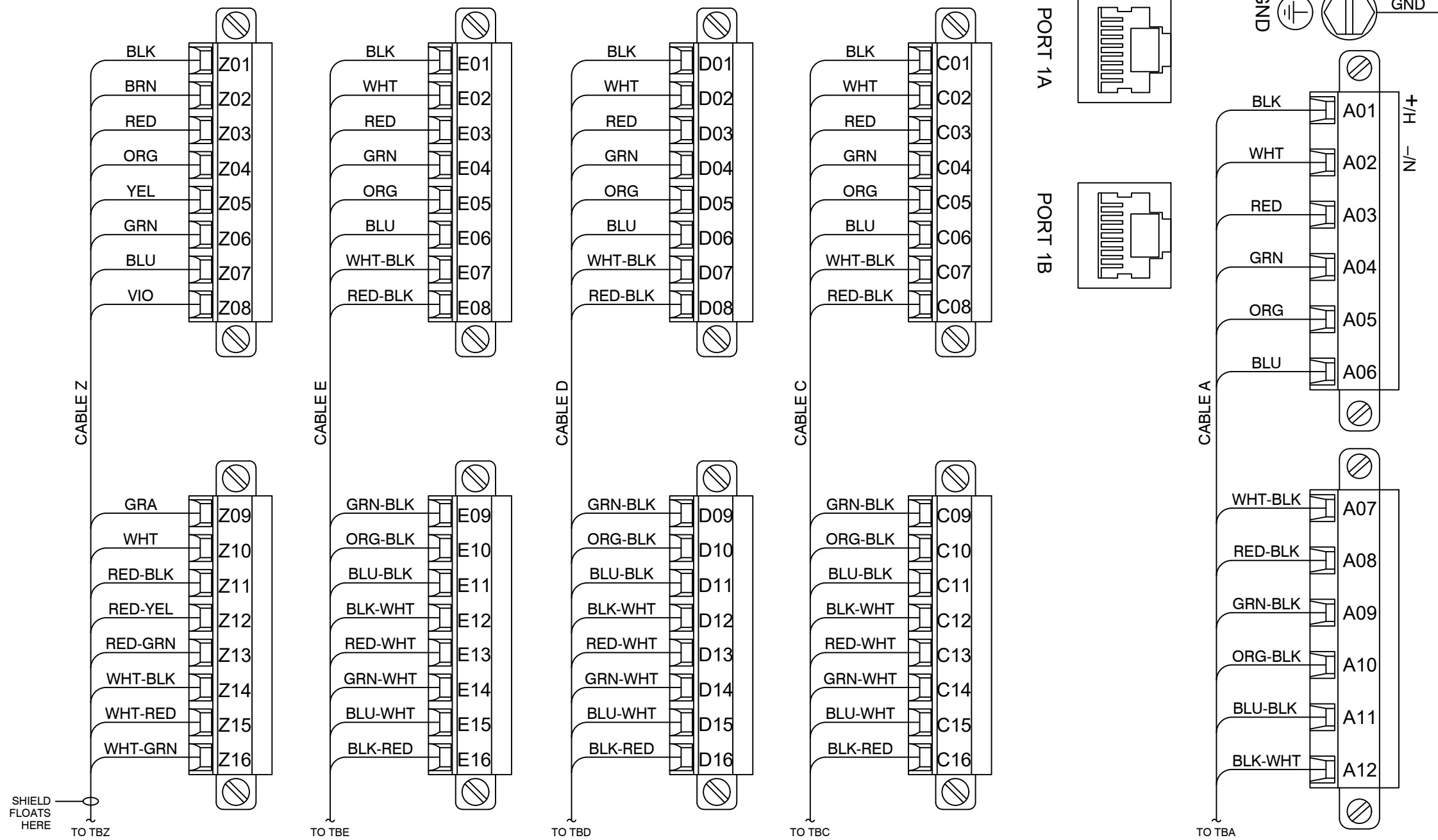
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 Scale: 3/16"=1" Rev: 3

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 18

CABLE A,C,D & E - ALPHA M13519

CABLE Z - ALPHA 86218CY



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WIRING DIAGRAM
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BRUNSWICK, GEORGIA
GLYNN COUNTY

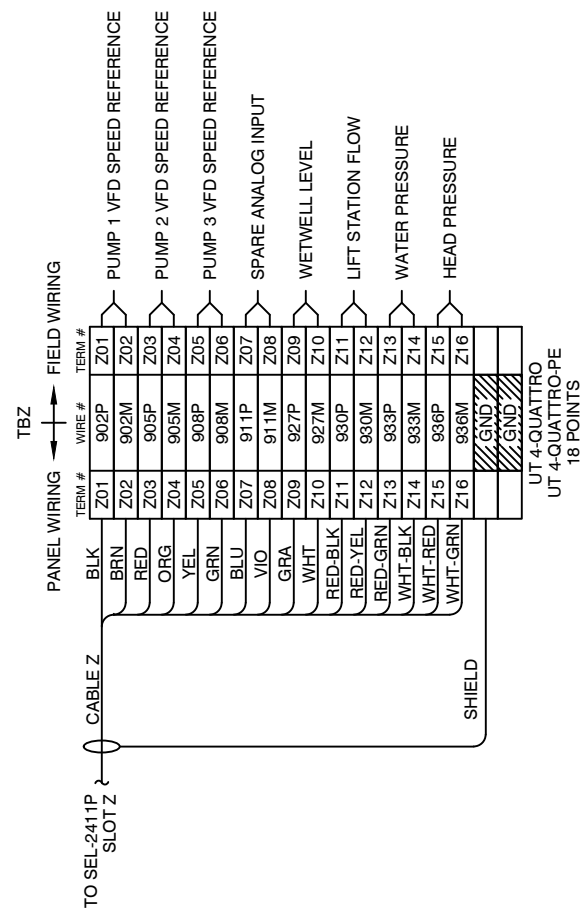
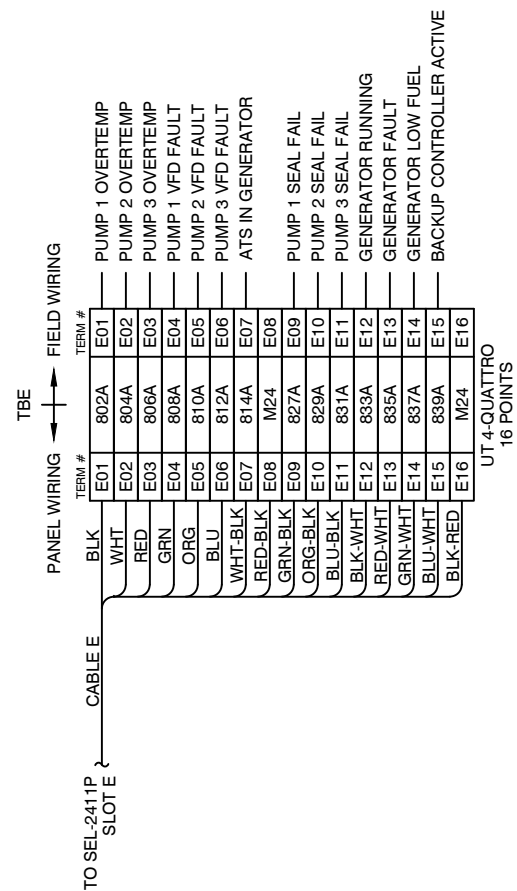
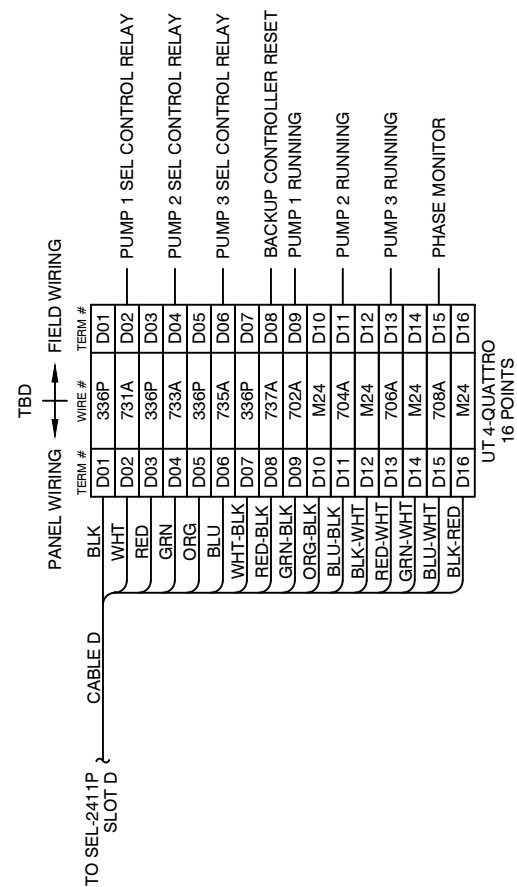
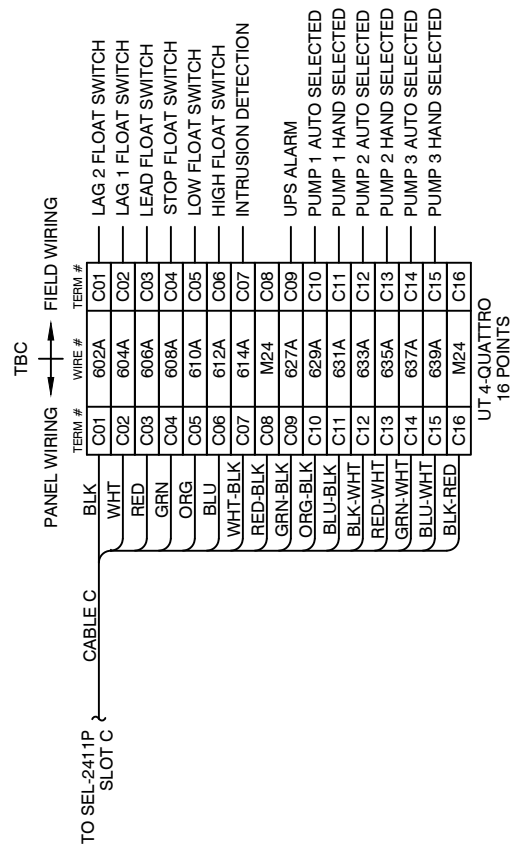
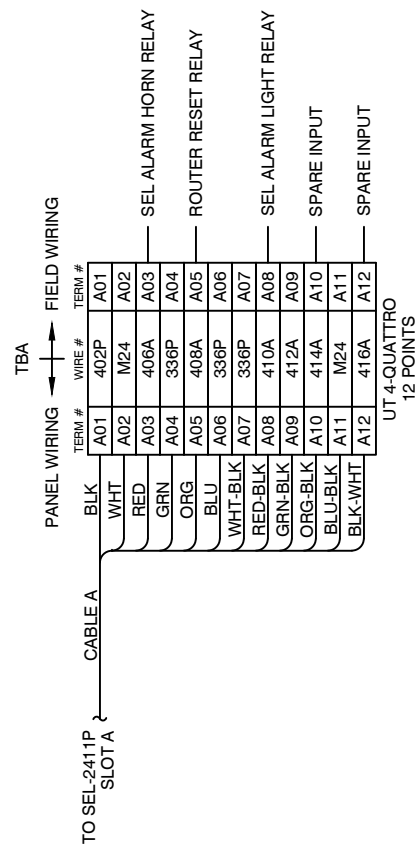
Electric Machine Control, Inc.
Trussville, Alabama 35173
205-661-3998



Date: 7/22/20
Drawn By: J. RAMSAY
Design By: D. COOK
App'd By: D. COOK

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Notes:

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WIRING DIAGRAM

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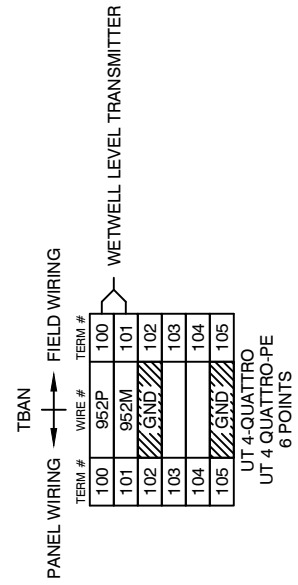
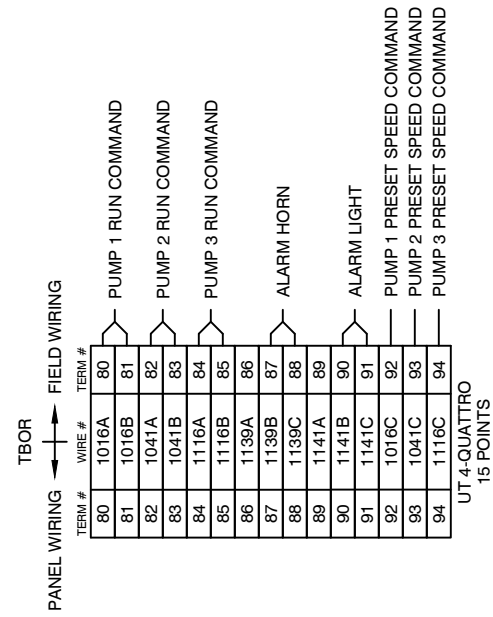
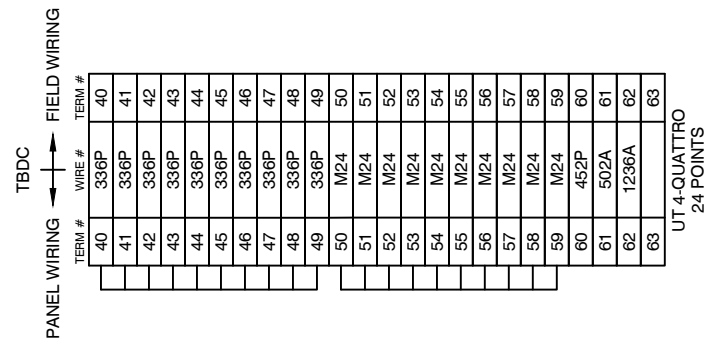
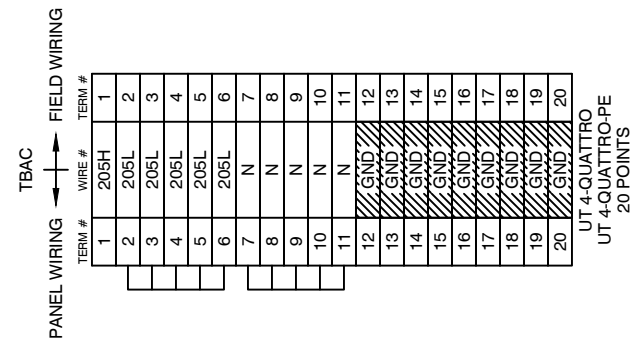
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