

Section 6
Drawings

TOWN OF BETHLEHEM NEW SCOTLAND ROAD PUMP STATION

FILENAME	SH	DWGDESC2
140935-SCOTLAND-SCH-00	0	INDEX SHEET
140935-SCOTLAND-SCH-01	1	480 POWER DISTRIBUTION
140935-SCOTLAND-SCH-02	2	120 VAC & 24VDC POWER DISTRIBUTION
140935-SCOTLAND-SCH-03	3	VFD CONTROL WIRING
140935-SCOTLAND-SCH-04	4	SOFT START CONTROL
140935-SCOTLAND-SCH-05	5	PUMP CONTROL WIRING
140935-SCOTLAND-SCH-06	6	APP721 CONTROL WIRING
140935-SCOTLAND-SCH-07	7	ANALOG OUTPUT
140935-SCOTLAND-SCH-08	8	FLOAT BACKUP AND ALARM OUTPUTS
140935-SCOTLAND-SCH-09	9	SPARE
140935-SCOTLAND-SCH-10	10-14	ENCLOSURE LAYOUT

TAGS	QTY	CATALOG	DESC
FU-131	1	ATQR20	CLASS CC FUSE CARTRIDGE, 13/32"x1-1/2", TIME DELAY, 20 A
FU-222 FU-224 FU-226 FU-228 FU-258 FU-260	6	GDL1	G FUSE, U.S. SIZE 6.3x32mm, 1 A, 250V AC, TIME DELAY, GLASS TUBE
FU-256	1	GDL5	G FUSE, U.S. SIZE 6.3x32mm, 5 A, 250V AC, TIME DELAY, GLASS TUBE

VSGENVIROMATION
A ZELLER COMPANY

TOWN OF BETHLEHEM

JOB No. 140935 SERIAL No. 140935-0002

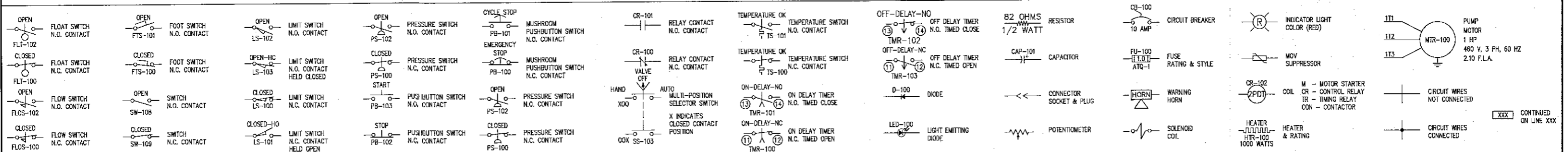
CONTROL CABINET	DUPLX PUMP CONTROL PANEL
POWER FEED	480VAC, 3PH & 120VAC, 1PH, 60Hz
DISCONNECT SW.	N/A
FULL LOAD AMPS	83 AMPS
LARGEST MOTOR FLA	40 AMPS
CONTROL VOLTAGE	120VAC / 24VDC
CONTROL XFMR.	N/A
INTERRUPTING CAPACITY	100 K.A.I.C.

PHONE 585-244-0450 FAX 585-254-4115

- NOTES:
- 230 OR 460 VAC POWER WIRING IS:
TYPE "MTW"; WIRE SIZE AS SHOWN ON THE SCHEMATIC.
PHASE-A - BLACK
PHASE-B - BLACK
PHASE-C - BLACK
 - AC CONTROL WIRING IS 16 AWG MINIMUM, TYPE "MTW", COLORS AS FOLLOWS:
120 VAC POWER - RED
120 VAC NEUTRAL - WHITE
FOREIGN VOLTAGES - ORANGE
GROUND - GREEN or GREEN/YELLOW
 - DC CONTROL WIRING IS 16 AWG MINIMUM, TYPE "MTW", COLORS AS FOLLOWS:
DC CONTROL HOT - BLUE
DC CONTROL COMMON - BLUE/WHITE
 - ANALOG SIGNAL WIRING IS SHIELDED TWISTED PAIR, 20 AWG MINIMUM.
 - POWER WIRING FOR DC DRIVES IS 14 AWG MINIMUM, TYPE "MTW"
DC MOTOR ARMATURE - BROWN
DC MOTOR FIELD - PURPLE
 - THIN LINES DENOTE PANEL WIRING
 - DOTTED LINES DENOTE FIELD WIRING
 - ⊗ TB3 DENOTES CONTROL PANEL TERMINAL AND TERMINAL STRIP NUMBER
 - TB4 DENOTES FIELD TERMINAL AND TERMINAL STRIP NUMBER
 - * DENOTES EXISTING FIELD DEVICE
 - PANEL DEVICE IDENTIFICATION NAMETAGS ARE ADHESIVE BACKED BRADY LABELS, WHITE LABELS WITH BLACK LETTERING.
 - ENGRAVED LAMICOID NAMETAGS ARE ADHESIVE BACKED, WHITE LABELS WITH BLACK LETTERING.
 - LINE REFERENCING:
THREE DIGIT
1st DIGIT - SHEET NUMBER
2nd & 3rd DIGITS - LINE REFERENCE
EXAMPLE - 150, SHEET 1, LINE 50

FOUR DIGIT
1st & 2nd DIGITS - SHEET NUMBER
3rd & 4th DIGITS - LINE REFERENCE
EXAMPLE - 2150, SHEET 21, LINE 50

ELECTRICAL SYMBOLS



D	FIELD MODIFICATIONS	ECN-140935-0005	08-07-15
C	RECORD DRAWINGS	ECN-140935-0004	01-27-15
B	AS BUILT	ECN-140935-0003	10-23-14
A	ORIGINAL ISSUE	ECN-140935-0001	07-14-14
REV:	DESCRIPTION:	DOC. CONTROL No:	DATE:
DESIGNED ON: AUTOCAD ELECTRICAL 2012		DWG LAST SAVED ON: 08-07-2015 11:13a	

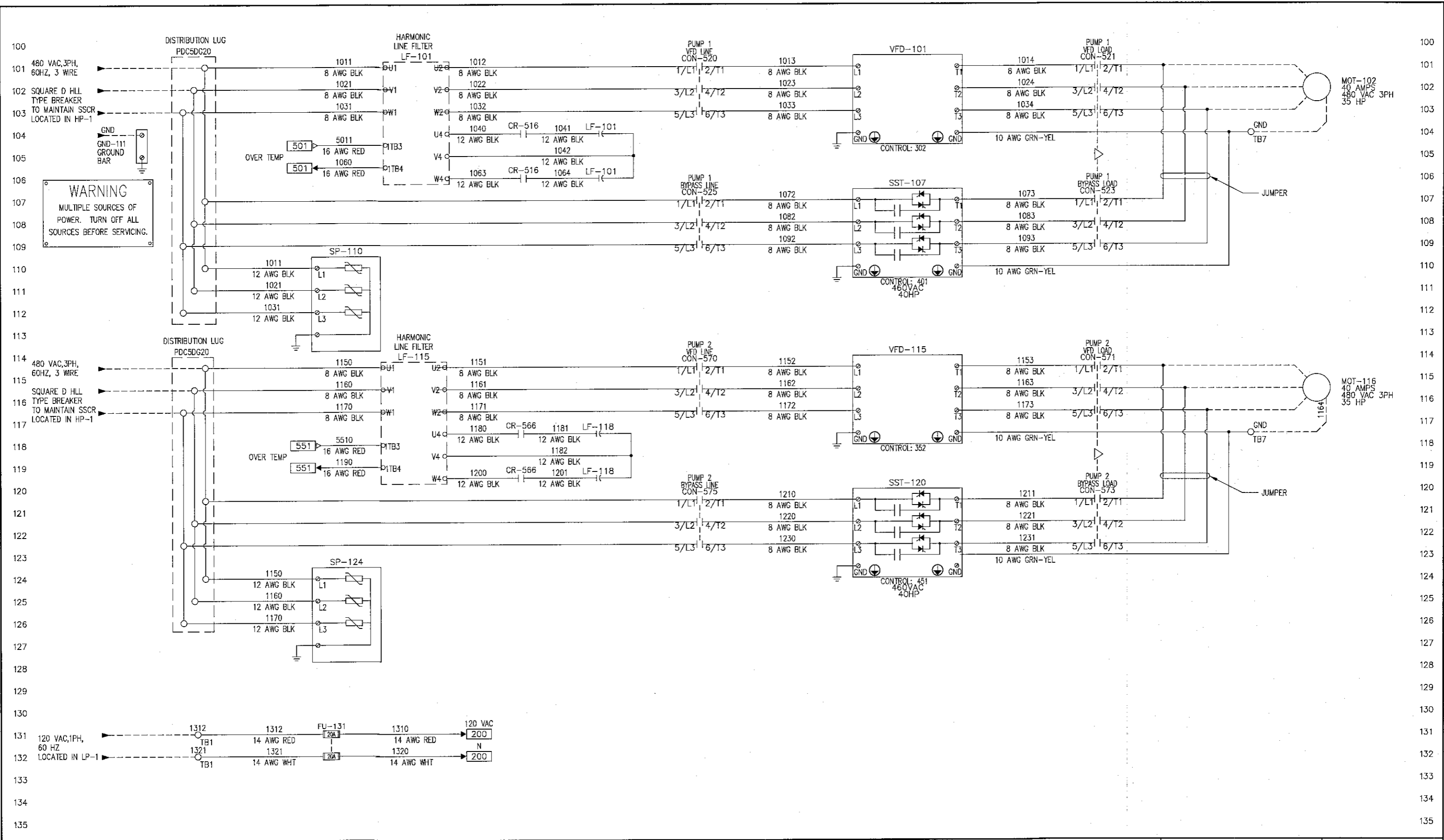
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TEL.: 585-244-0450
FAX: 585-254-0982


CUSTOMER: FLYGT, A XYLEM BRAND
STREET: 600 MILE CROSSING BLVD, SUITE 3
CITY / STATE: ROCHESTER NY 14624
TOWN OF BETHLEHEM
NEW SCOTLAND ROAD PUMP STATION
DUPLX PUMP CONTROL PANEL
INDEX SHEET

DRAWN BY: RJY	DRAWN DATE: 07-14-14	MODEL-PART NUMBER: UL 698A LISTED CABINET
CHECKED BY: DL	CHECKED DATE: 07-30-14	DRAWING NUMBER: 140935-SCOTLAND-SCH
FILE REFERENCE: 140935-SCOTLAND-SCH-000	PAGES: 0 OF 14	SCALE: PAGE: REVISION: N/A 0 D



D	FIELD MODIFICATIONS	ECN-140935-0005	08-07-15
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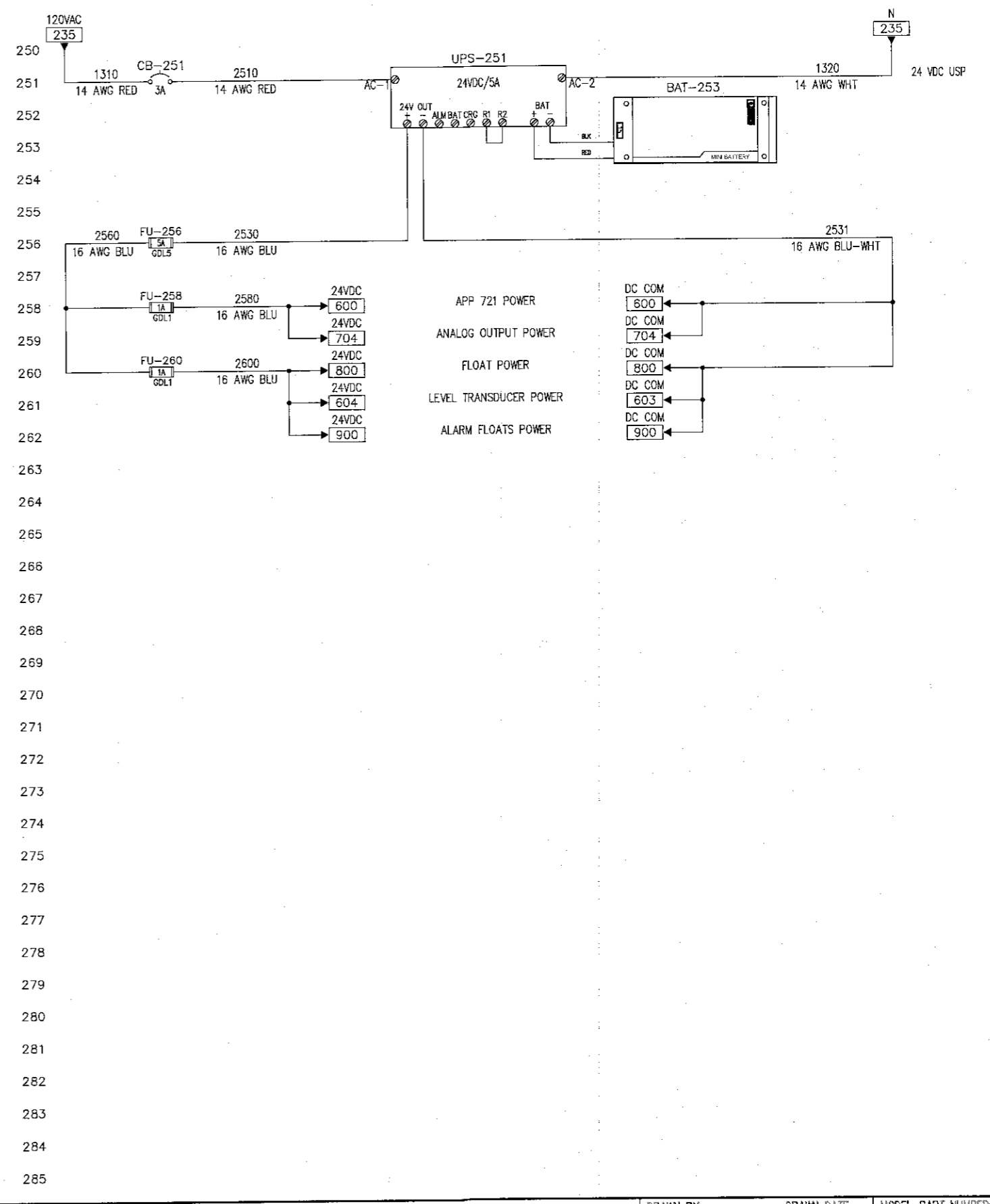
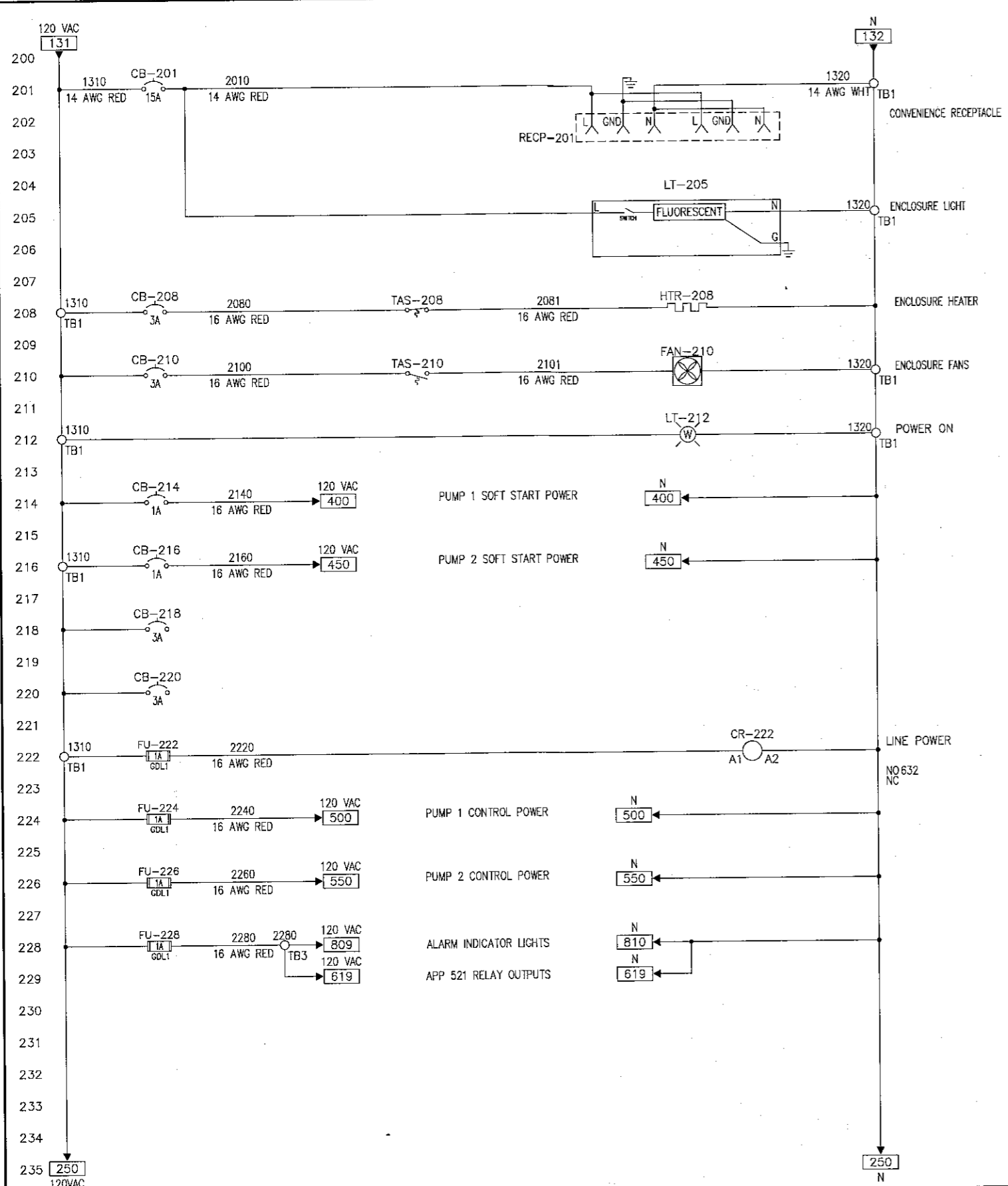
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NEW SCOTLAND ROAD PUMP STATION
DUPLIX PUMP CONTROL PANEL
480 POWER DISTRIBUTION

DRAWN BY:	RJY	DRAWN DATE:	07-14-14	MODEL-PART NUMBER:	UL 698A LISTED CABINET
CHECKED BY:	DL	CHECKED DATE:	07-30-14	DRAWING NUMBER:	140935-SCOTLAND-SCH
FILE REFERENCE:	140935-SCOTLAND-SCH-01D	SCALE:	N/A	PAGE:	1
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A	ORIGINAL ISSUE	ECN-140935-0001	07-14-14
REV:	DESCRIPTION:	DOC. CONTROL No:	DATE:
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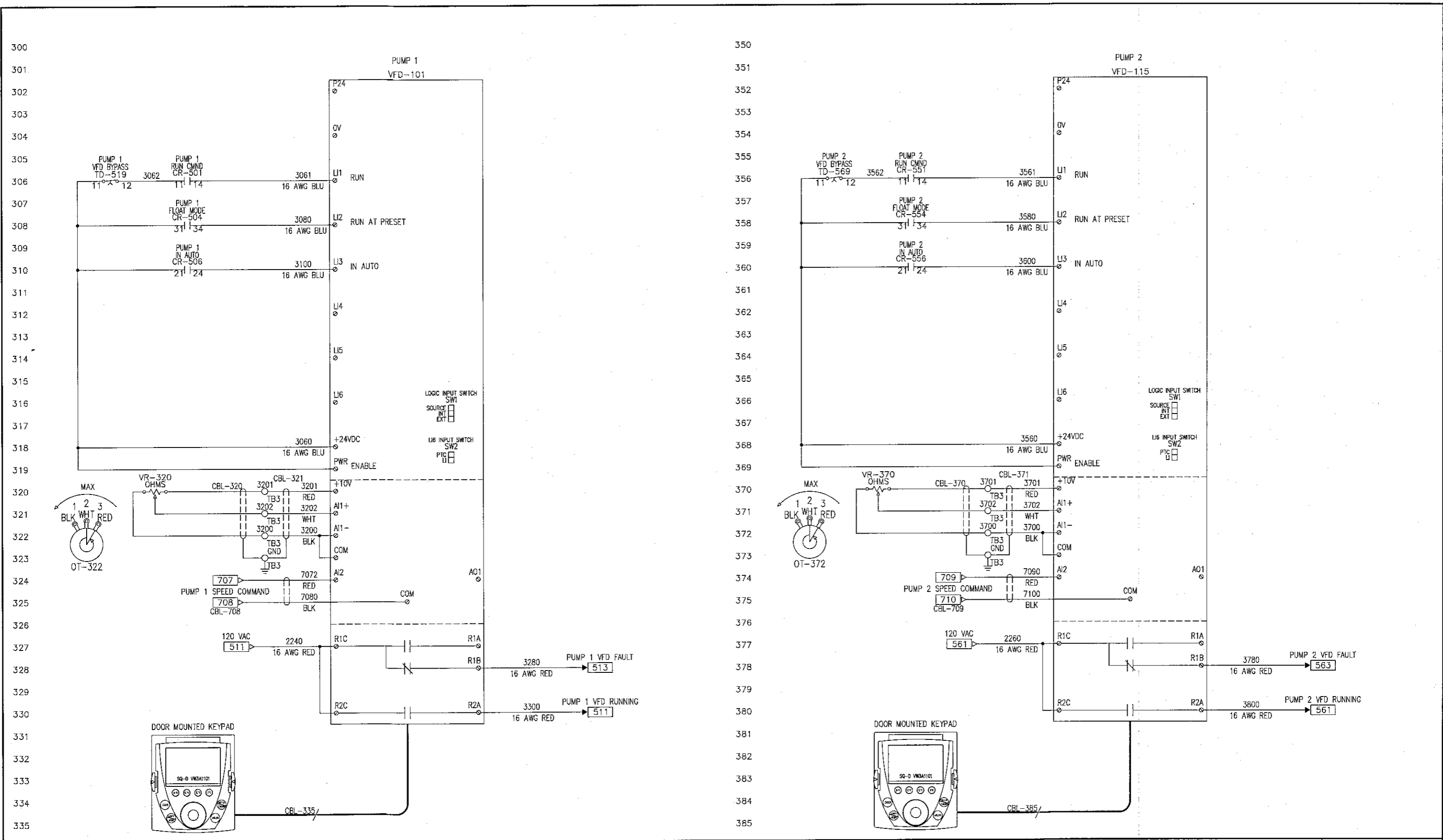

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 DUPLEX PUMP CONTROL PANEL


120 VAC & 24VDC POWER DISTRIBUTION

DRAWN BY: RJY	DRAWN DATE: 07-14-14	MODEL-PART NUMBER: UL 698A LISTED CABINET
CHECKED BY: DL	CHECKED DATE: 07-30-14	DRAWING NUMBER: 140935-SCOTLAND-SCH
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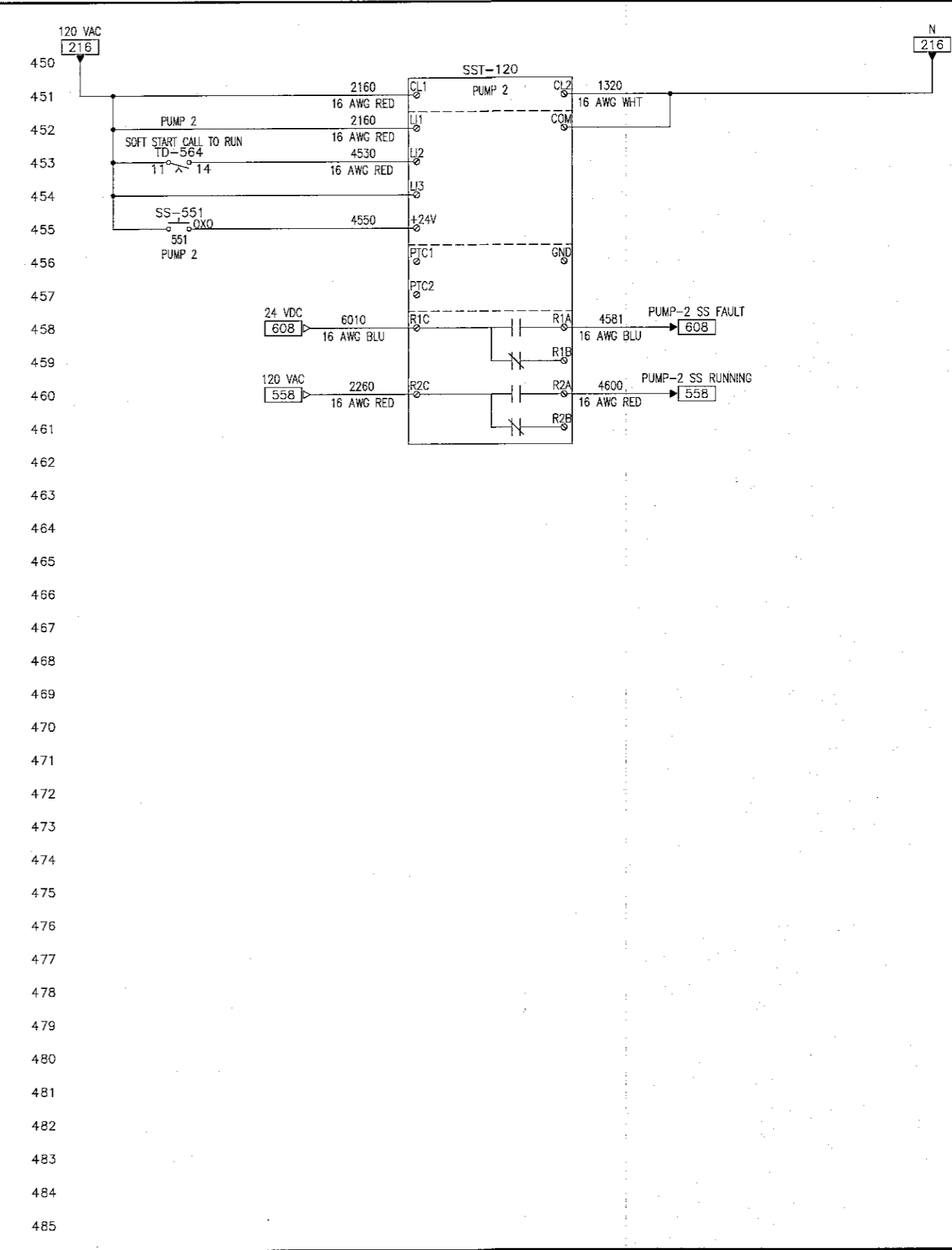
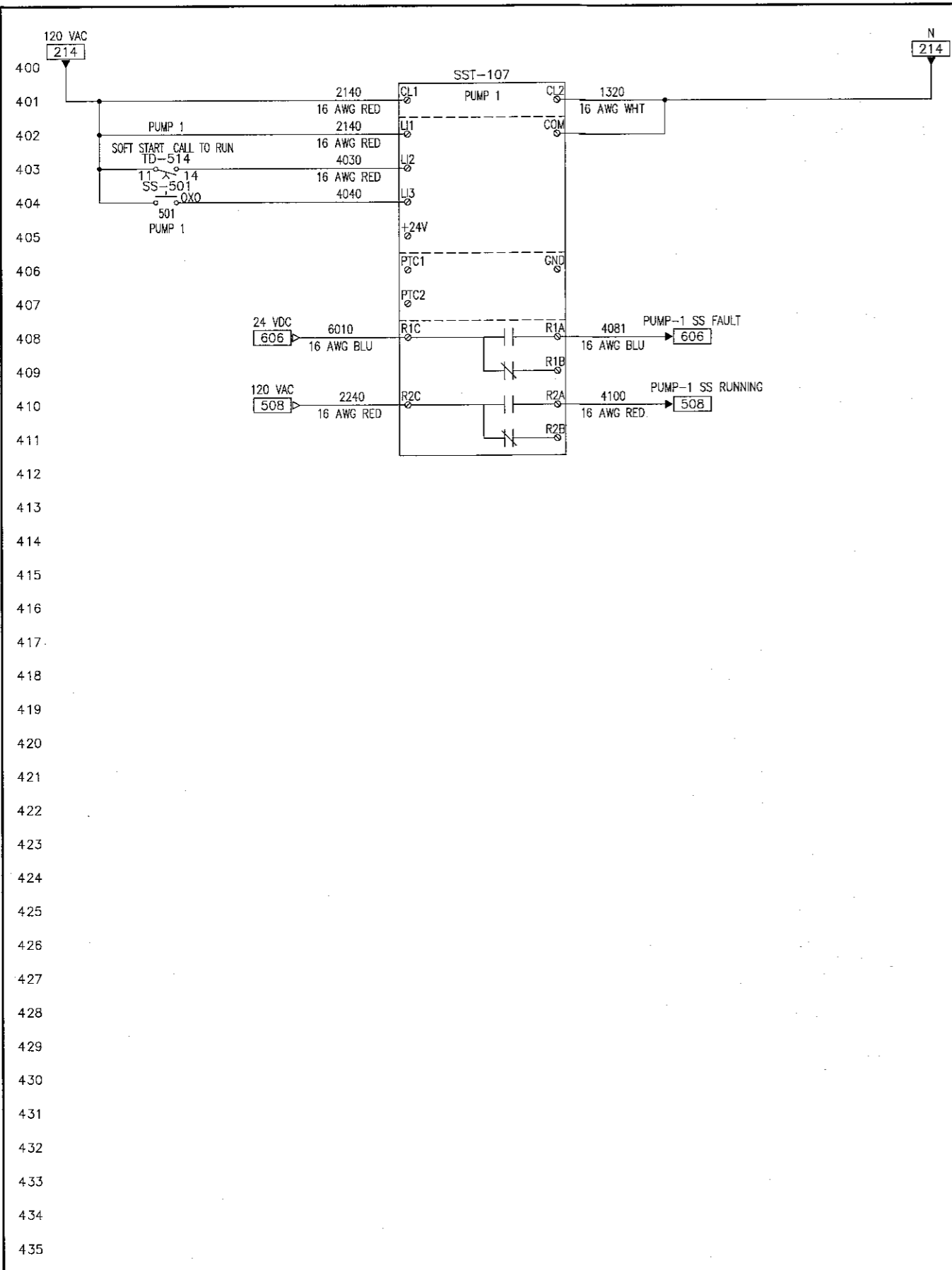
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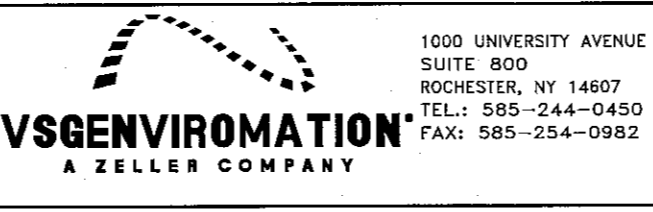
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 STREET: 600 MILE CROSSING BLVD, SUITE 3
 CITY / STATE: ROCHESTER NY 14824
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 NEW SCOTLAND ROAD PUMP STATION
 DUPLEX PUMP CONTROL PANEL
 VFD CONTROL WIRING

DRAWN BY:	RJY	DRAWN DATE:	07-14-14	MODEL-PART NUMBER:	UL 698A LISTED CABINET
CHECKED BY:	DL	CHECKED DATE:	07-30-14	DRAWING NUMBER:	140935-SCOTLAND-SCH
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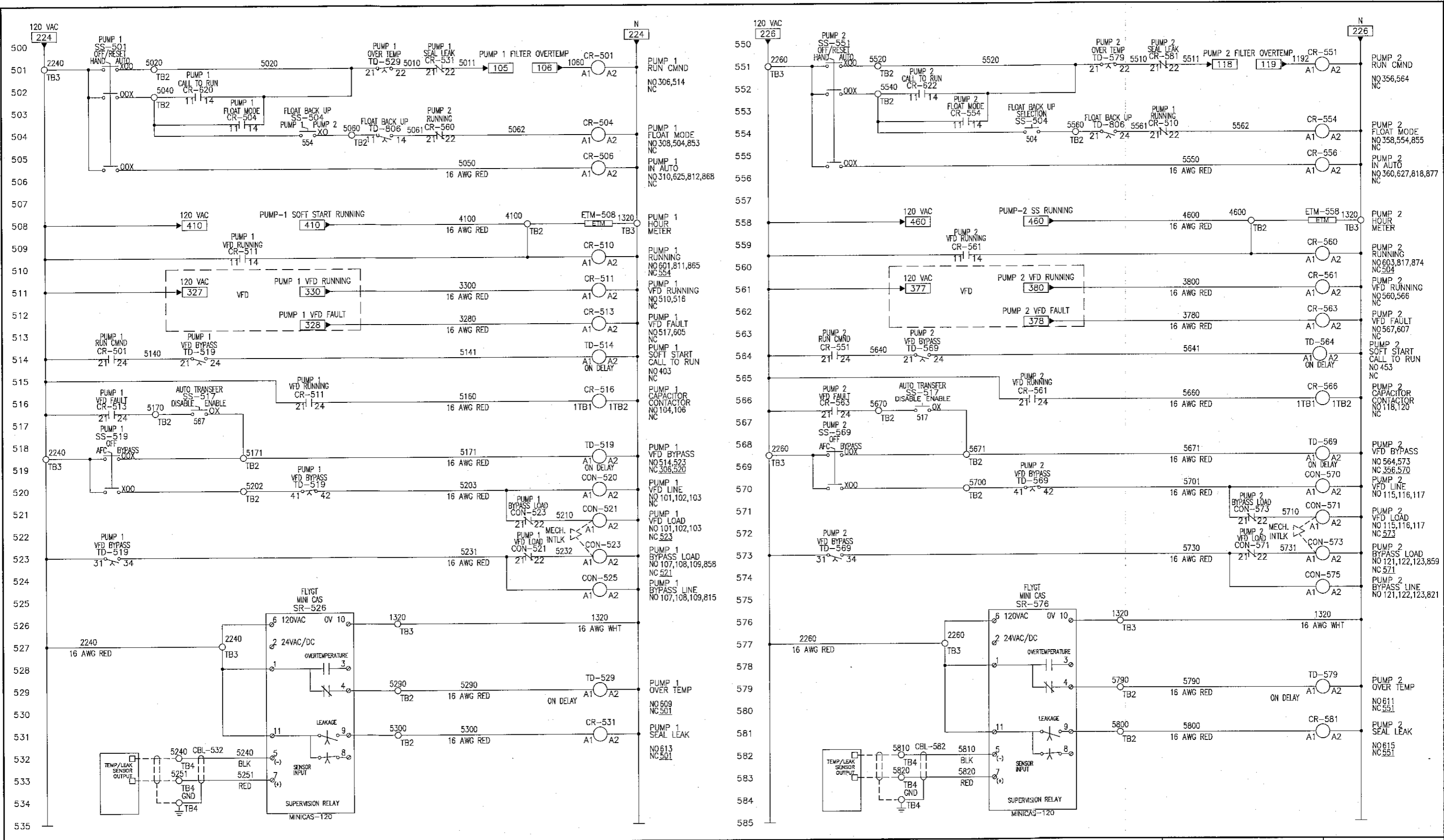
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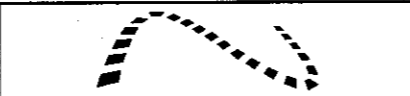
CUSTOMER: FLYGT, A XYLEM BRAND
 STREET: 600 MILE CROSSING BLVD, SUITE 3
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 DUPLEX PUMP CONTROL PANEL
 SOFT START CONTROL

DRAWN BY:	RJY	DRAWN DATE:	07-14-14	MODEL-PART NUMBER:	UL 698A LISTED CABINET
CHECKED BY:	DL	CHECKED DATE:	07-30-14	DRAWING NUMBER:	140935-SCOTLAND-SCH
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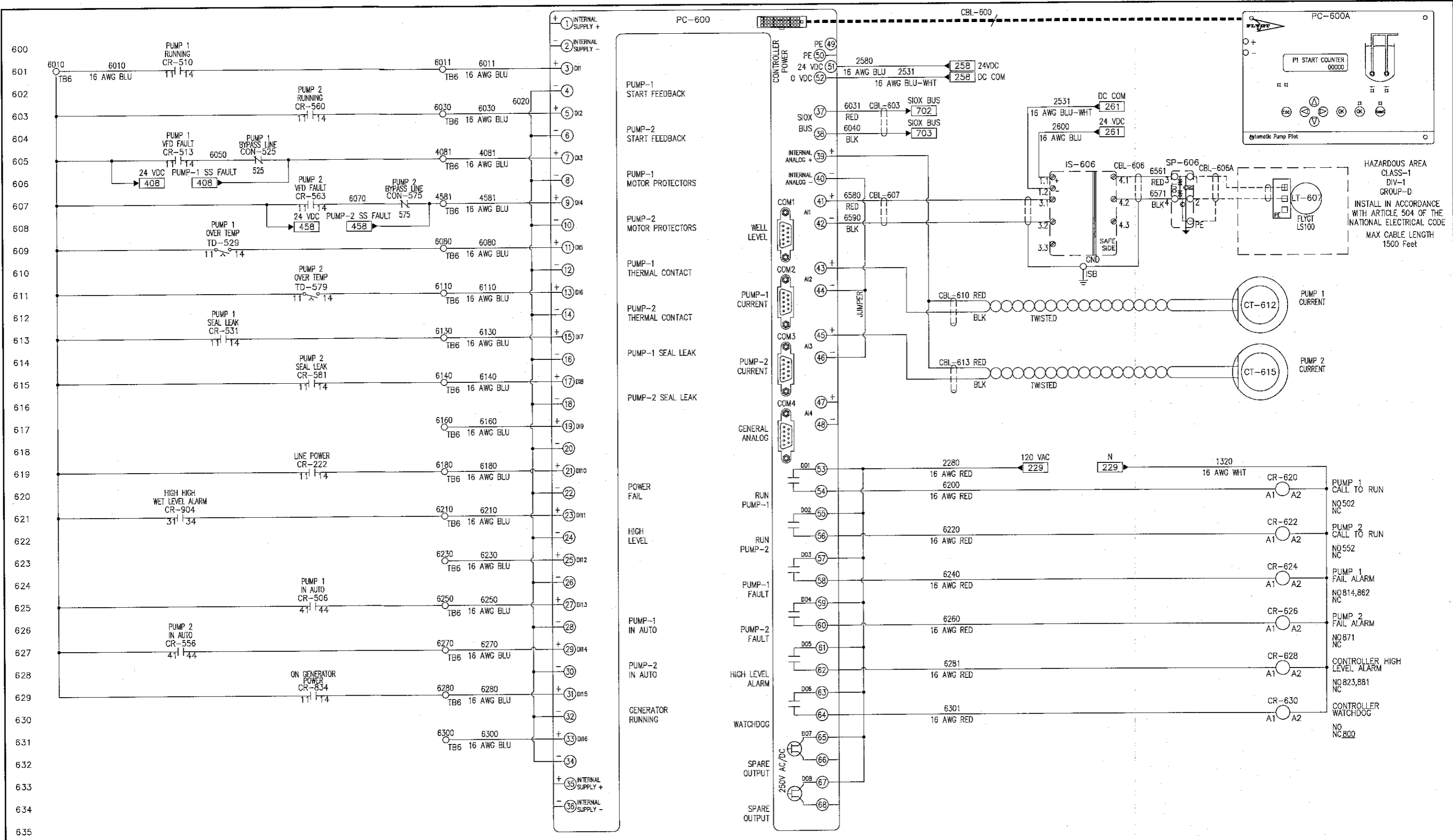
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 DUPLEX PUMP CONTROL PANEL
 PUMP CONTROL WIRING

DRAWN BY:	DRAWN DATE:	MODEL-PART NUMBER:
RJY	07-14-14	UL 698A LISTED CABINET
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DL	07-30-14	140935-SCOTLAND-SCH
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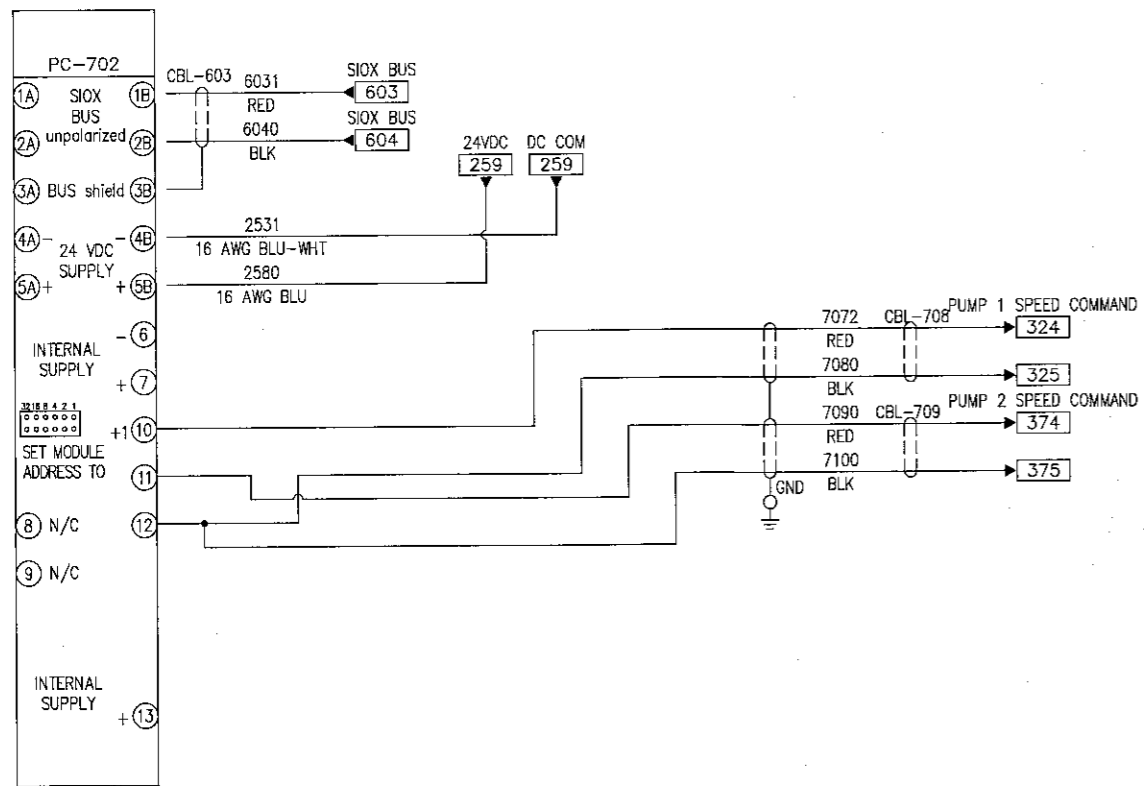

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 DUPLEX PUMP CONTROL PANEL
 APP721 CONTROL WIRING

DRAWN BY:	RJY	DRAWN DATE:	07-14-14	MODEL-PART NUMBER:	UL 698A LISTED CABINET
CHECKED BY:	DL	CHECKED DATE:	07-30-14	DRAWING NUMBER:	140935-SCOTLAND-SCH
FILE REFERENCE:	140935-SCOTLAND-SCH-06D	SCALE:	N/A	PAGE:	6
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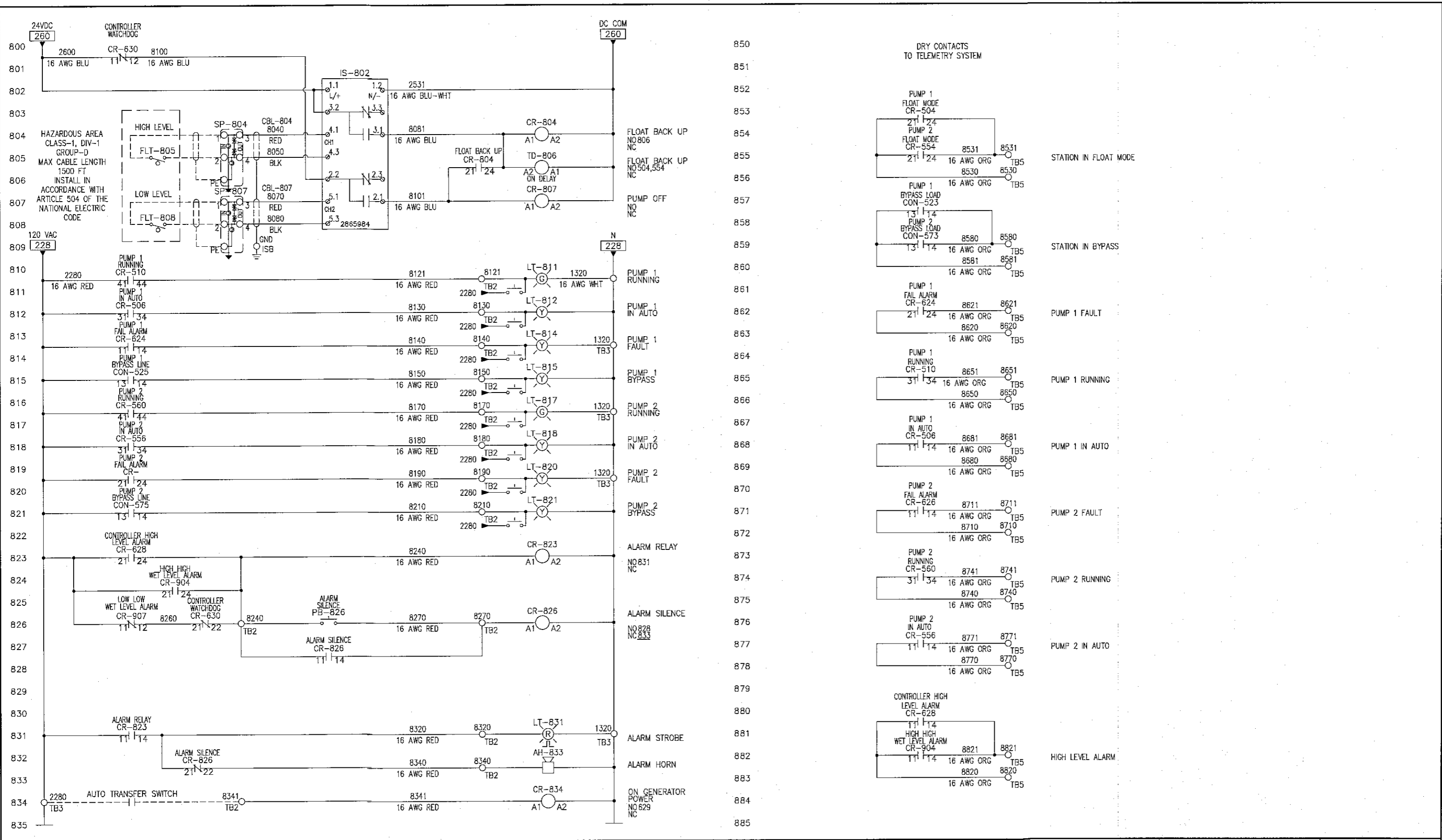
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 DUPLEX PUMP CONTROL PANEL
 ANALOG OUTPUT

DRAWN BY:	DRAWN DATE:	MODEL-PART NUMBER:
RJY	07-14-14	UL 698A LISTED CABINET
CHECKED BY:	CHECKED DATE:	DRAWING NUMBER:
DL	07-30-14	140935-SCOTLAND-SCH
FILE REFERENCE:	SCALE:	PAGE:
140935-SCOTLAND-SCH-07D	N/A	7
SERIAL/PROJECT NUMBER:	PAGES:	REVISION:
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NEW SCOTLAND ROAD PUMP STATION
 DUPLEX PUMP CONTROL PANEL

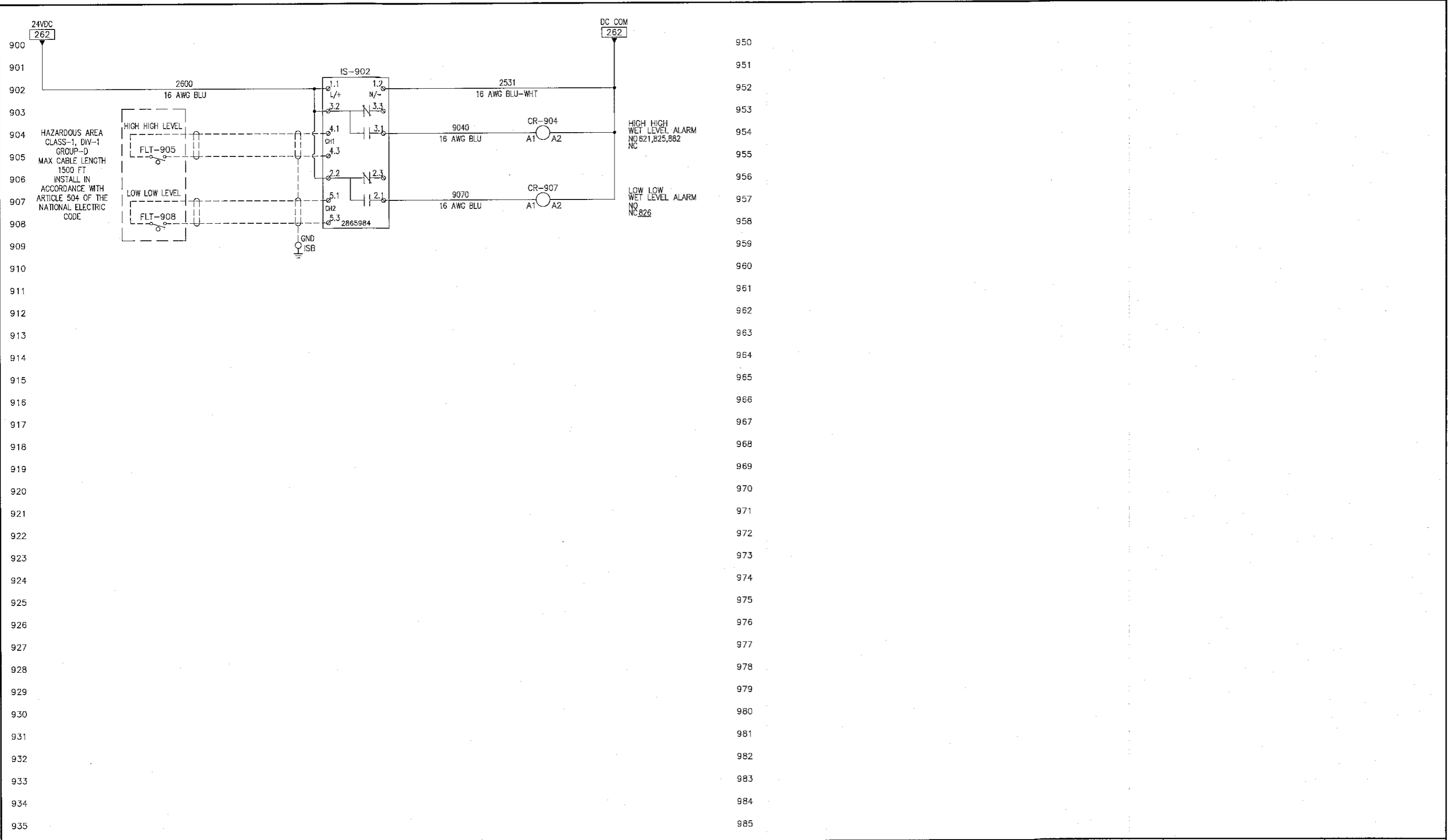
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SERIAL/PROJECT NUMBER:
 140935-0002

DRAWN BY:	DRAWN DATE:	MODEL-PART NUMBER:
RJY	07-14-14	UL 898A LISTED CABINET
CHECKED BY:	CHECKED DATE:	DRAWING NUMBER:
DL	07-30-14	140935-SCOTLAND-SCH
FILE REFERENCE:	SCALE:	PAGE:
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DRY CONTACTS TO TELEMETRY SYSTEM

FLOAT BACKUP AND ALARM OUTPUTS



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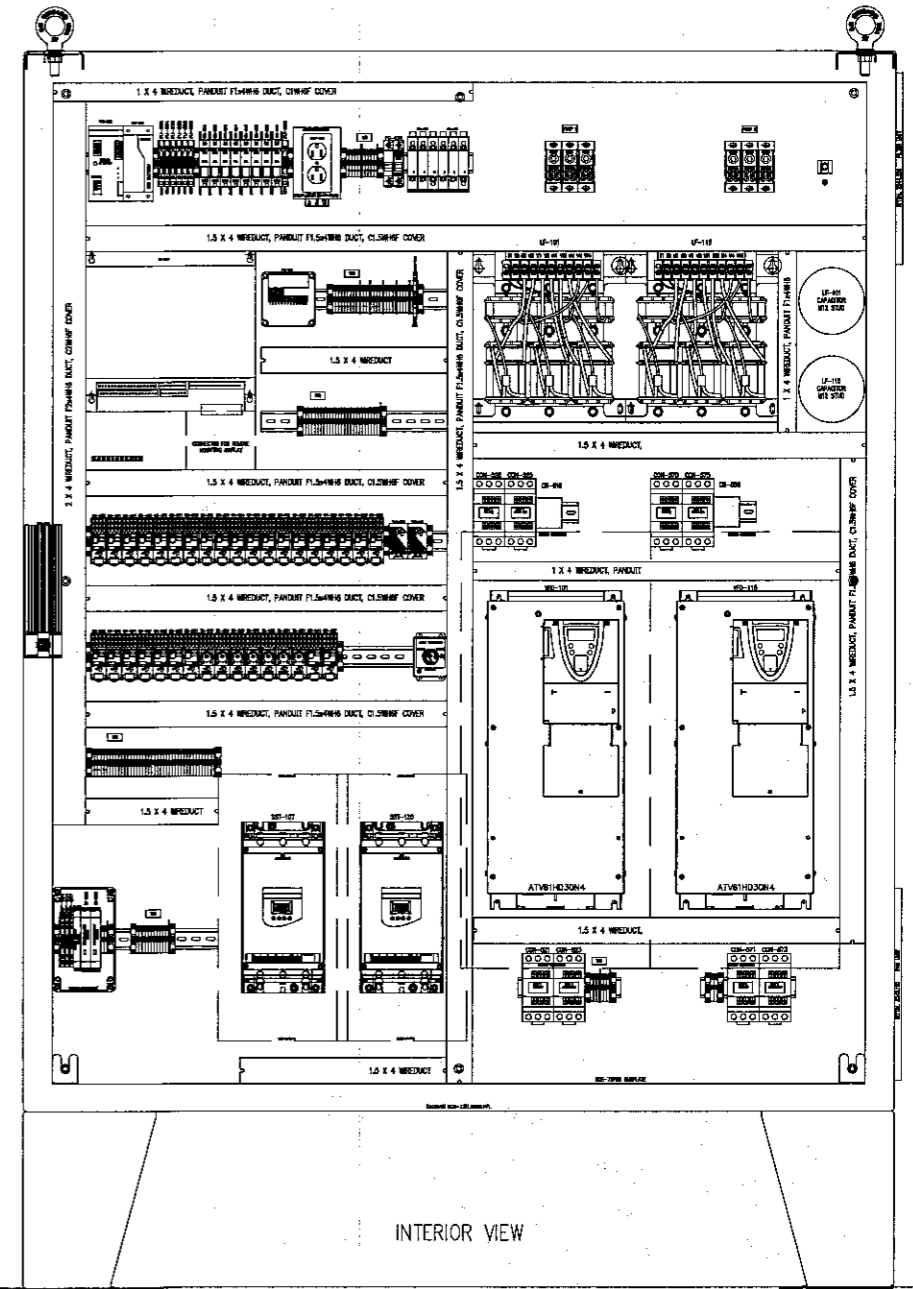
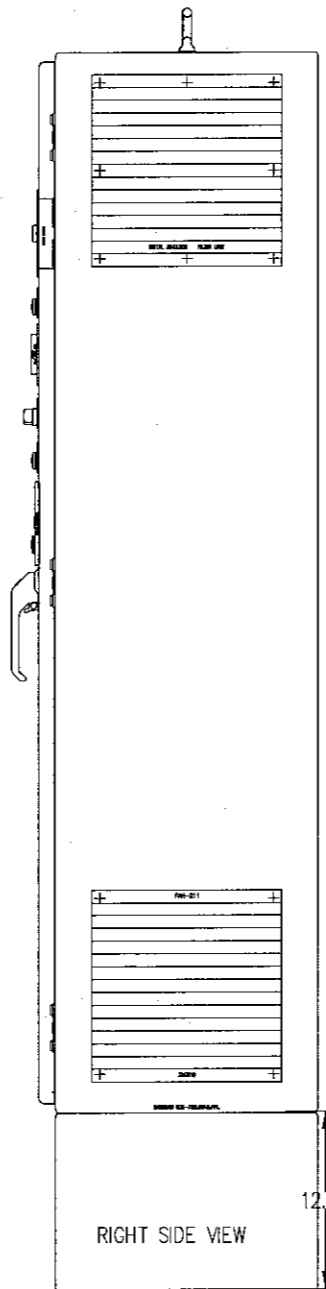
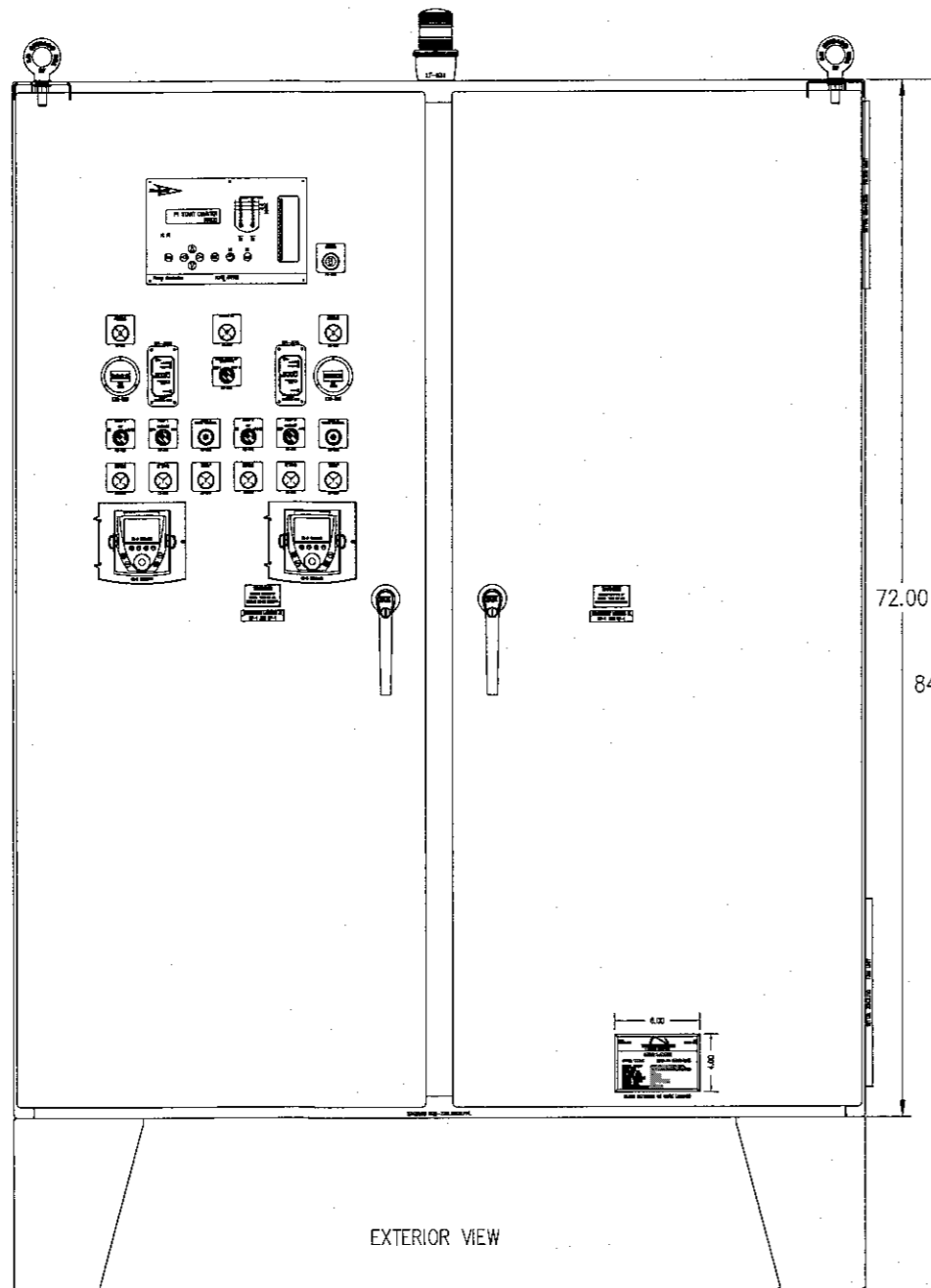
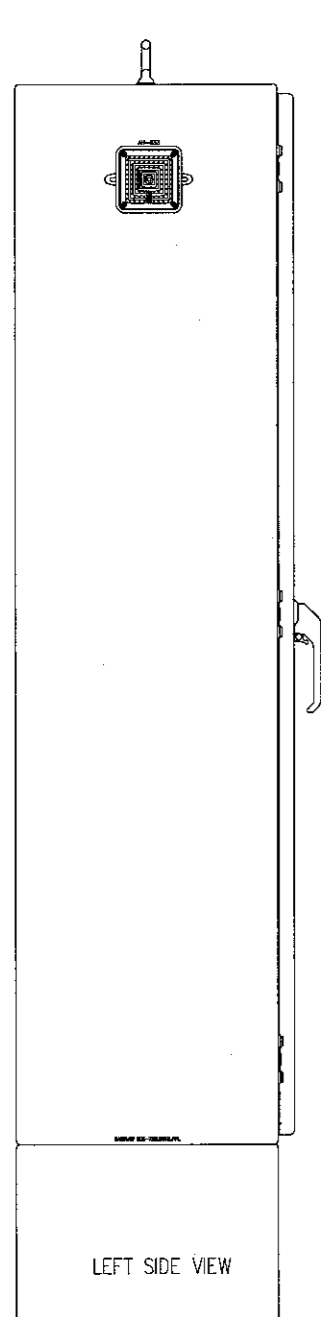
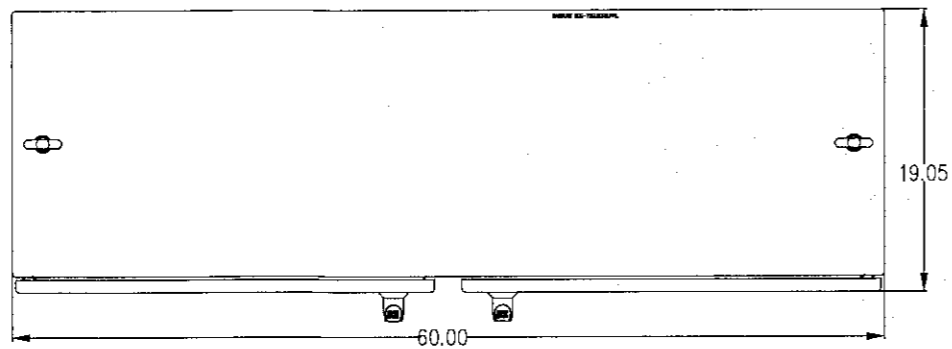
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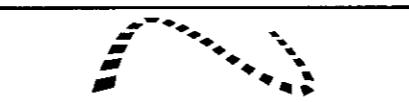
CUSTOMER: FLYGT, A XYLEM BRAND
STREET: 600 MILE CROSSING BLVD, SUITE 3
CITY / STATE: ROCHESTER NY 14624
TOWN OF BETHLEHEM
NEW SCOTLAND ROAD PUMP STATION
DUPLEX PUMP CONTROL PANEL
SPARE

DRAWN BY: RJY	DRAWN DATE: 07-14-14	MODEL-PART NUMBER: UL 698A LISTED CABINET
CHECKED BY: DL	CHECKED DATE: 07-30-14	DRAWING NUMBER: 140935-SCOTLAND-SCH
FILE REFERENCE: 140935-SCOTLAND-SCH-09D	SERIAL/PROJECT NUMBER: 140935-0002	PAGES: 9 OF 14
SCALE: N/A	PAGE: 9	REVISION: D



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C	RECORD DRAWINGS	ECN-140935-0004	01-27-15
B	AS BUILT	ECN-140935-0003	10-23-14
A	ORIGINAL ISSUE	ECN-140935-0001	07-14-14
DESIGNED ON: AUTOCAD ELECTRICAL 2012		DWG LAST SAVED ON: 08-07-2015 11:13a	

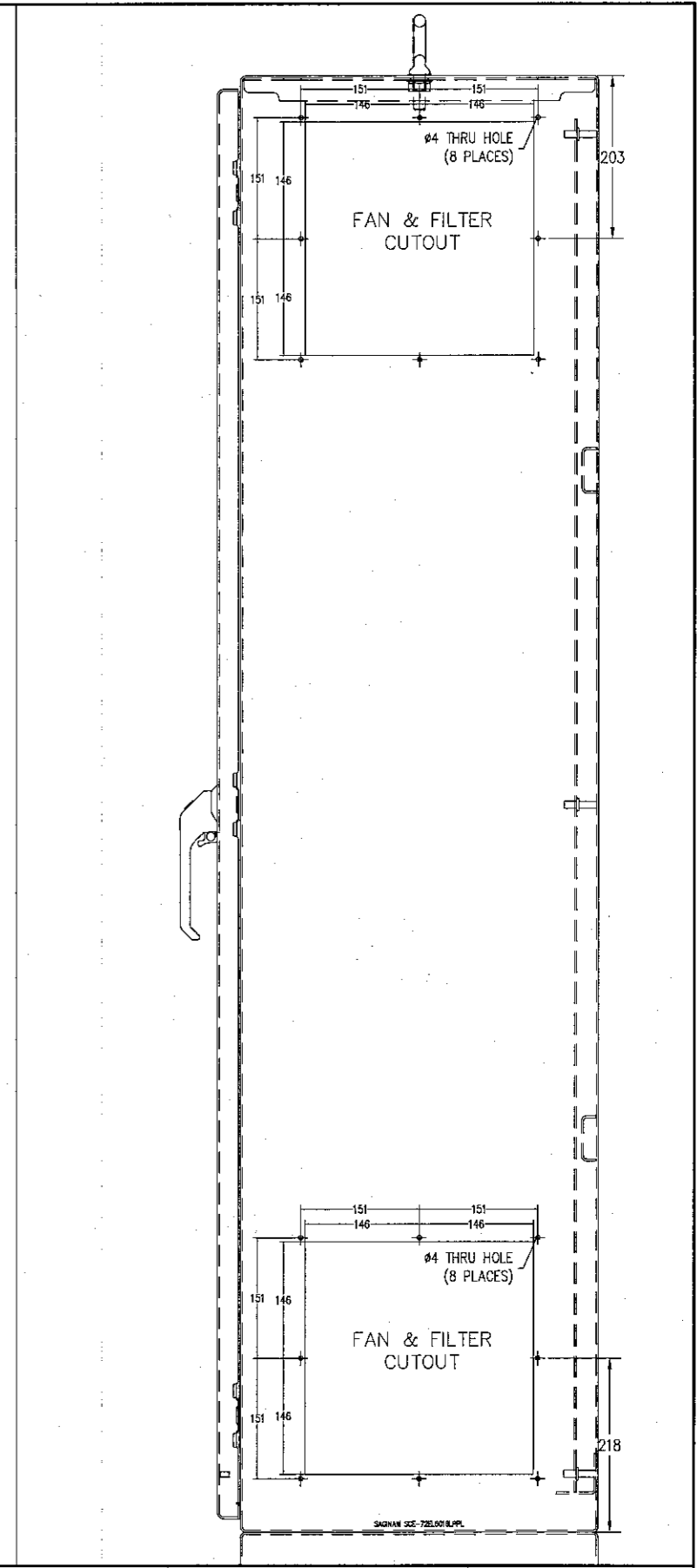
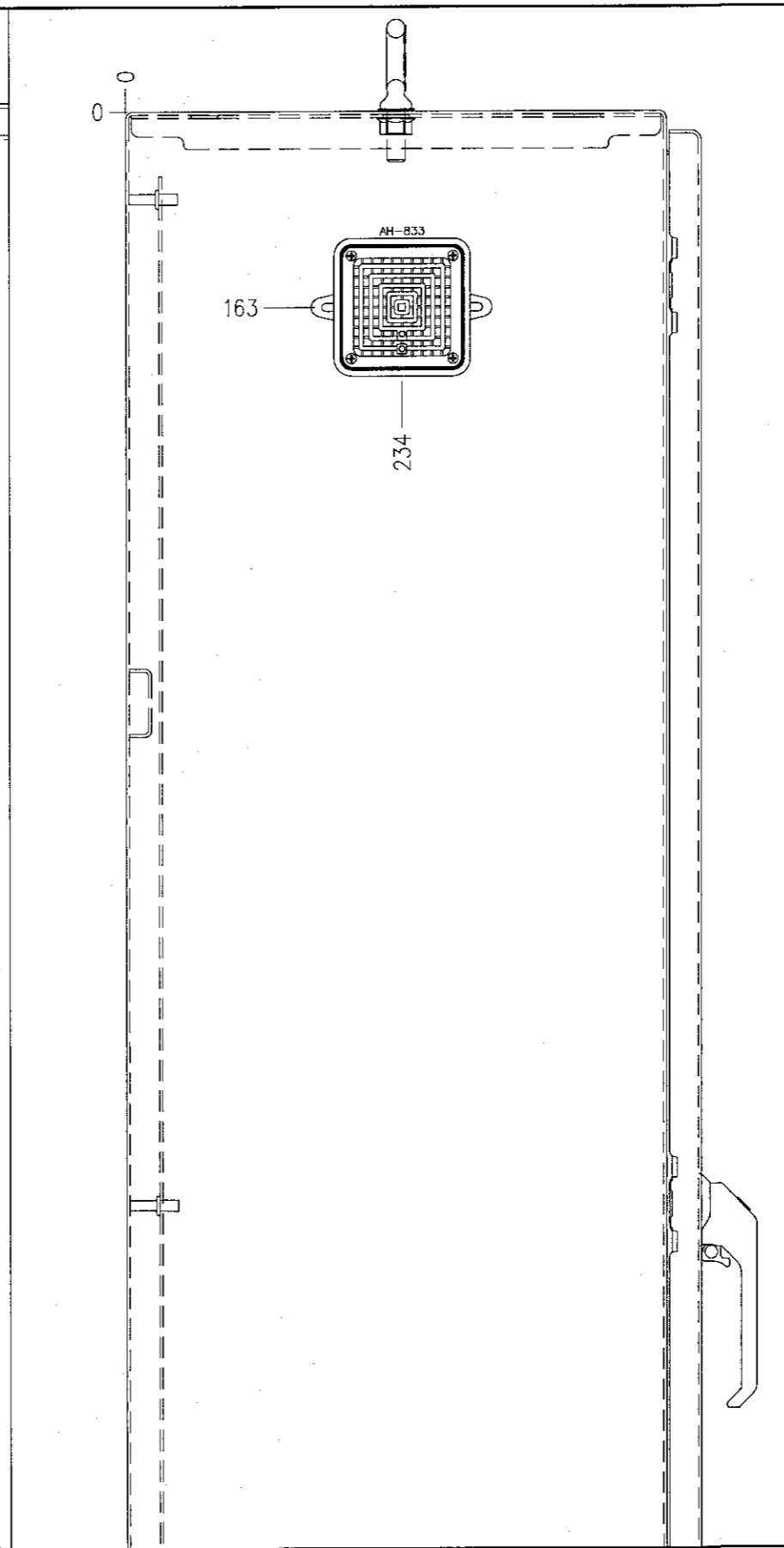
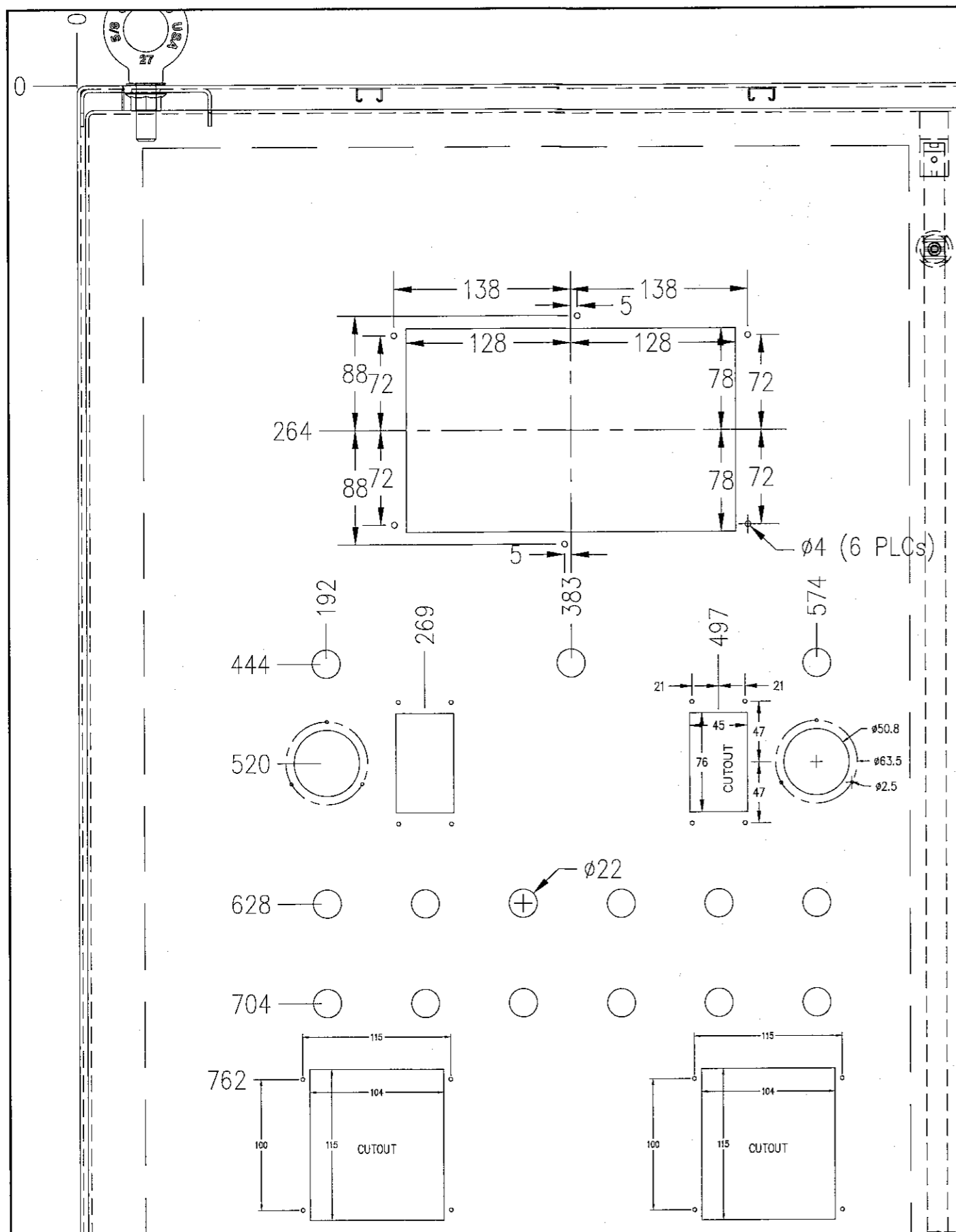
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 STREET: 600 MILE CROSSING BLVD, SUITE 3
 CITY / STATE: ROCHESTER NY 14624
 TOWN OF BETHLEHEM
 NEW SCOTLAND ROAD PUMP STATION
 DUPLEX PUMP CONTROL PANEL
 EXTERIOR VIEW

DRAWN BY:	DRAWN DATE:	MODEL-PART NUMBER:
RJY	07-14-14	UL 698A LISTED CABINET
CHECKED BY:	CHECKED DATE:	DRAWING NUMBER:
DL	07-30-14	140935-SCOTLAND-SCH
FILE REFERENCE:	SCALE:	PAGE:
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DESIGNED ON: AUTOCAD ELECTRICAL 2012		DWG LAST SAVED ON: 08-07-2015 11:13a	

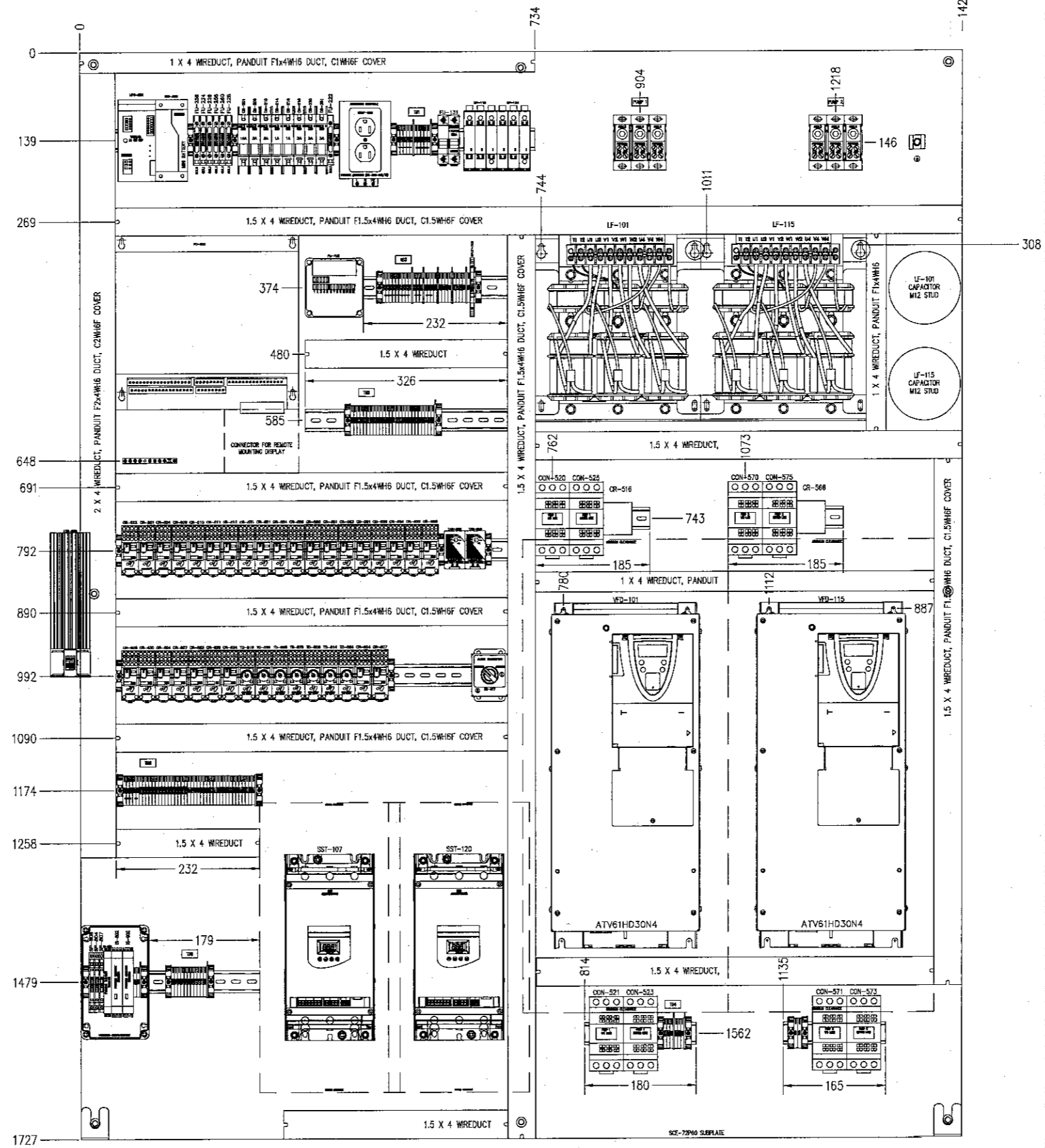
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 CITY / STATE: ROCHESTER NY 14624
 TOWN OF BETHLEHEM
 NEW SCOTLAND ROAD PUMP STATION
 DUPLEX PUMP CONTROL PANEL
 DOOR CUTOUTS

DRAWN BY:	DRAWN DATE:	MODEL-PART NUMBER:
RJY	07-14-14	UL 698A LISTED CABINET
CHECKED BY:	CHECKED DATE:	DRAWING NUMBER:
DL	07-30-14	140935-SCOTLAND-SCH
FILE REFERENCE:	SCALE:	PAGE:
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 STREET: 600 MILE CROSSING BLVD, SUITE 3
 CITY / STATE: ROCHESTER NY 14624
 TOWN OF BETHLEHEM
 NEW SCOTLAND ROAD PUMP STATION
 DUPLEX PUMP CONTROL PANEL
 INTERIOR DIMENSIONS

DRAWN BY:	DRAWN DATE:	MODEL-PART NUMBER:
RJY	07-14-14	UL 698A LISTED CABINET
CHECKED BY:	CHECKED DATE:	DRAWING NUMBER:
DL	07-30-14	140935-SCOTLAND-SCH
FILE REFERENCE:	SCALE:	PAGE:
140935-SCOTLAND-SCH-10D	N/A	12
SERIAL/PROJECT NUMBER:	PAGES:	REVISION:
140935-0002	12 OF 14	D

6.00

4.00

PHONE 585-244-0450 FAX 585-254-4115

VSGENVIROMATION
A ZELLER COMPANY

TOWN OF BETHLEHEM

JOB No. 140935 SERIAL No. 140935-0002

CONTROL CABINET DUPLEX PUMP CONTROL PANEL
POWER FEED 480VAC, 3PH & 120VAC, 1PH, 60Hz
DISCONNECT SW. N/A
FULL LOAD AMPS 83 AMPS
LARGEST MOTOR FLA 40 AMPS
CONTROL VOLTAGE 120VAC / 24VDC
CONTROL XFMR. N/A
INTERRUPTING CAPACITY 100 K.A.I.C.

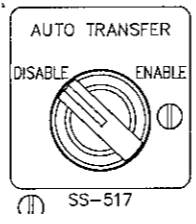
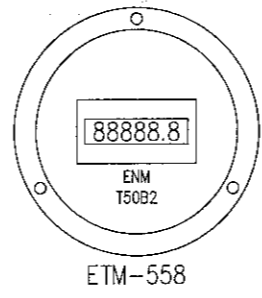
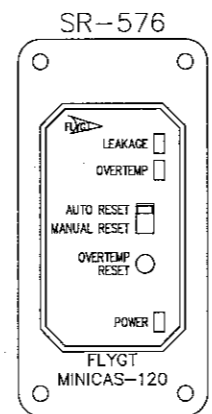
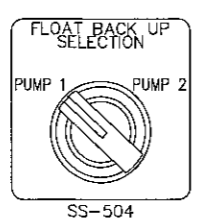
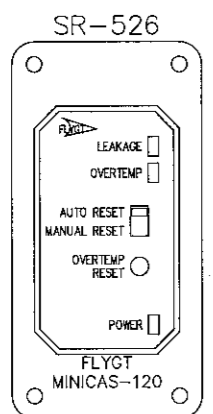
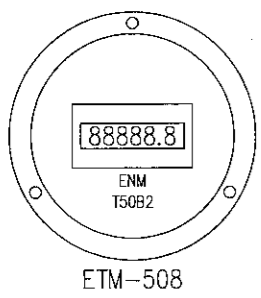
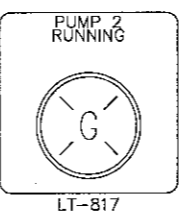
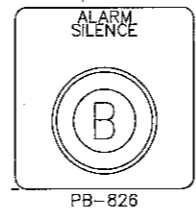
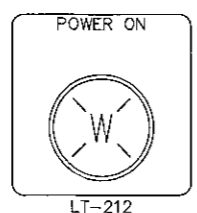
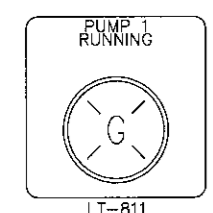
WARNING
MULTIPLE SOURCES OF
POWER. TURN OFF ALL
SOURCES BEFORE SERVICING.

DISCONNECT LOCATED IN
HP-1 AND LP-1

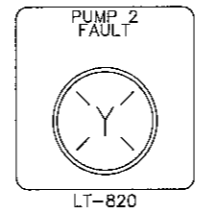
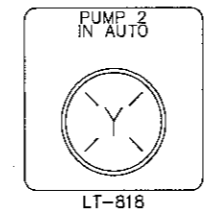
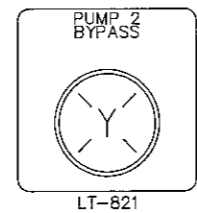
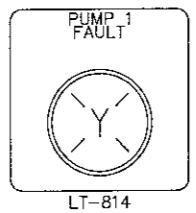
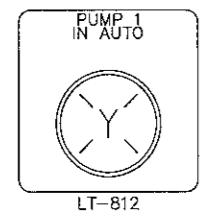
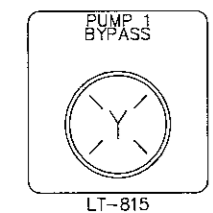
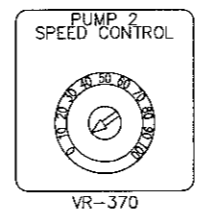
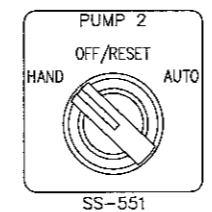
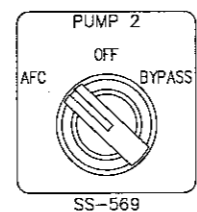
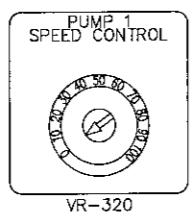
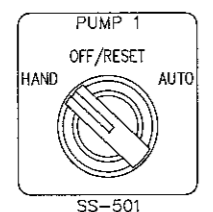
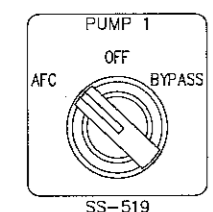
QTY (2)

BLACK LETTERING ON WHITE LAMICOID

FASTEN WITH STAINLESS STEEL SCREWS



22MM OPERATORS



REV:	DESCRIPTION:	DOC. CONTROL No:	DATE:
D	FIELD MODIFICATIONS	ECN-140935-0005	08-07-15
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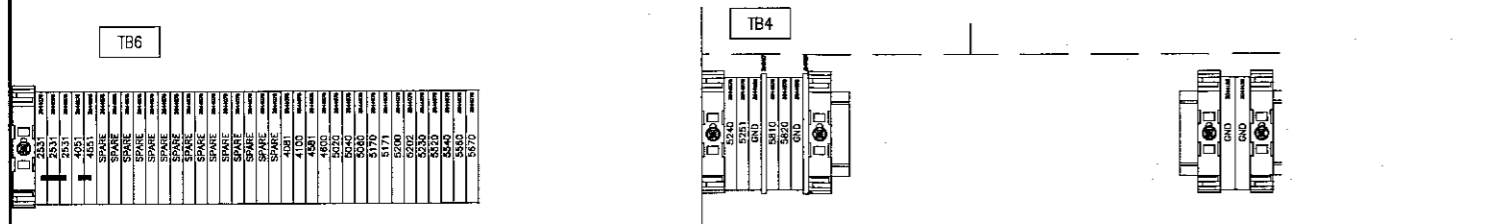
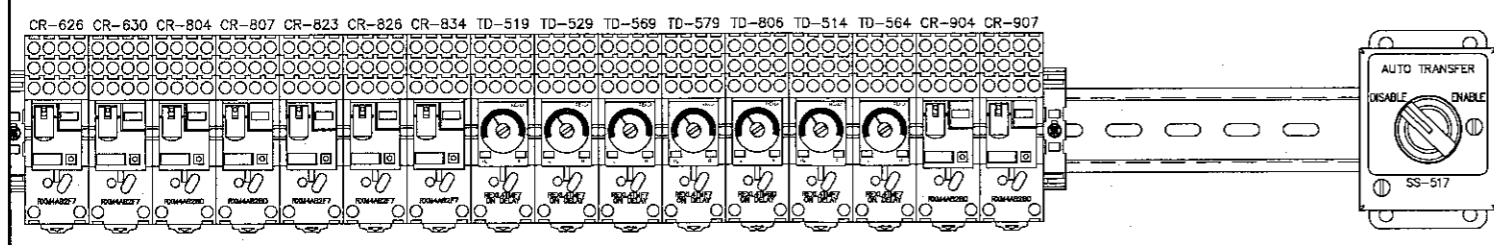
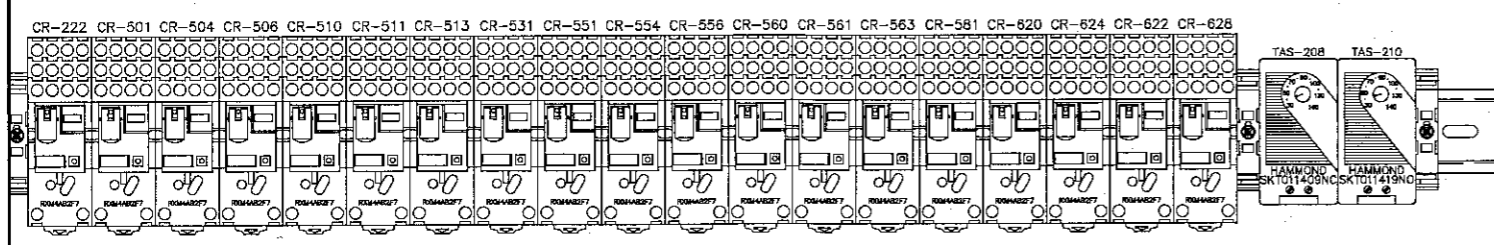
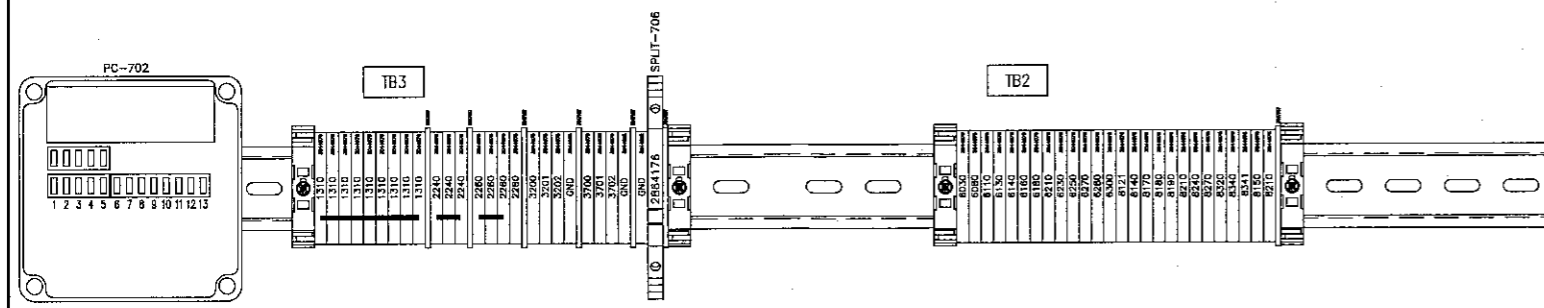
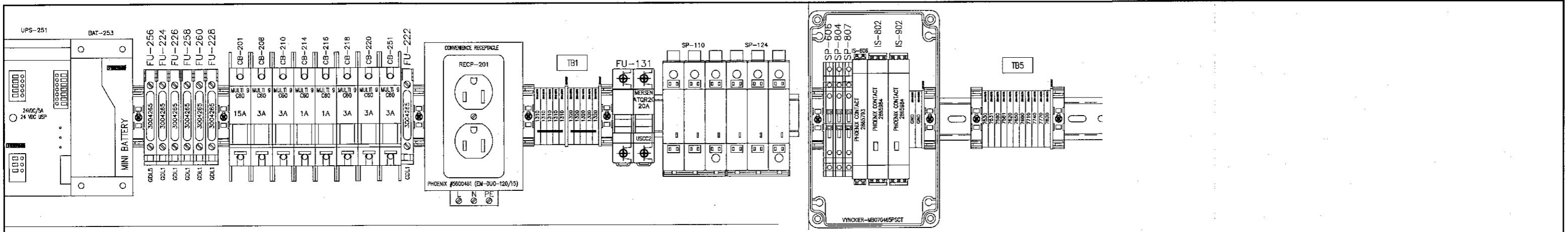
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TOWN OF BETHLEHEM
NEW SCOTLAND ROAD PUMP STATION
DUPLEX PUMP CONTROL PANEL

NAMEPLATES

DRAWN BY: RJY	DRAWN DATE: 07-14-14	MODEL-PART NUMBER: UL 698A LISTED CABINET
CHECKED BY: DL	CHECKED DATE: 07-30-14	DRAWING NUMBER: 140935-SCOTLAND-SCH
FILE REFERENCE: 140935-SCOTLAND-SCH-100	SCALE: N/A	PAGE: 13
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CITY / STATE: ROCHESTER NY 14624
TOWN OF BETHLEHEM
NEW SCOTLAND ROAD PUMP STATION
DUPLIX PUMP CONTROL PANEL
TERMINAL STRIPS

DRAWN BY: RJK	DRAWN DATE: 07-14-14	MODEL-PART NUMBER: UL 698A LISTED CABINET
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