

DRAWING INDEX

DWG NO.	DESCRIPTION	DWG NO.	DESCRIPTION
6416000	DRAWING INDEX AND ELECTRICAL SCHEMATIC SYMBOLS	6416059	SPARE
6416001	SINGLE LINE DIAGRAM	6416060	LIFT DRIVE MDE1 UNIDRIVE SP RM1
6416002	SINGLE LINE DIAGRAM	6416061	LIFT DRIVE MDE1 UNIDRIVE SP RM1
6416003	SINGLE LINE DIAGRAM	6416062	LIFT DRIVE MDE1 UNIDRIVE SP RM1
6416004	MCC 3-LINE DIAGRAM	6416063	LIFT DRIVE MDE1 UNIDRIVE SP RM1
6416005	MCC 3-LINE DIAGRAM	6416064	LIFT DRIVE MDE2 UNIDRIVE SP RM1
6416006	MCC 3-LINE DIAGRAM	6416065	LIFT DRIVE MDE2 UNIDRIVE SP RM1
6416007	MCC 3-LINE DIAGRAM	6416066	LIFT DRIVE MDE2 UNIDRIVE SP RM1
6416008	MCC 3-LINE DIAGRAM	6416067	LIFT DRIVE MDE2 UNIDRIVE SP RM1
6416009	MCC 3-LINE DIAGRAM	6416068	LIFT DRIVE MDW1 UNIDRIVE SP RM1
6416010	MCC 3-LINE DIAGRAM	6416069	LIFT DRIVE MDW1 UNIDRIVE SP RM1
6416011	PLC CABINET POWER SCHEMATIC DIAGRAM	6416070	LIFT DRIVE MDW1 UNIDRIVE SP RM1
6416012	PLC CHASSIS 2 SLOTS 1 & 2	6416071	LIFT DRIVE MDW1 UNIDRIVE SP RM1
6416013	PLC CHASSIS 2 SLOTS 3 & 4	6416072	LIFT DRIVE MDW2 UNIDRIVE SP RM1
6416014	PLC CHASSIS 2 SLOTS 5 & 6	6416073	LIFT DRIVE MDW2 UNIDRIVE SP RM1
6416015	PLC CHASSIS 2 SLOTS 7 & 8	6416074	LIFT DRIVE MDW2 UNIDRIVE SP RM1
6416016	PLC CHASSIS 2 SLOTS 9 & 10	6416075	LIFT DRIVE MDW2 UNIDRIVE SP RM1
6416017	PLC CHASSIS 2 SLOTS 11 & 12	6416076	LIFT DRIVE UNIDRIVE SP RM1 PANEL LAYOUT
6416018	PLC CHASSIS 3 SLOTS 0 & 1	6416077	LIFT DRIVE UNIDRIVE SP RM1 ENCLOSURE LAYOUT
6416019	SPARE	6416078	SPARE
6416020	CONTROL CONSOLE POWER SCHEMATIC DIAGRAM	6416079	SPARE
6416021	CONTROL CONSOLE INPUTS SCHEMATIC DIAGRAM	6416080	MCC-1 MOTOR CONTROL CENTER LAYOUT & DESIGNATION
6416022	CONTROL CONSOLE INPUTS SCHEMATIC DIAGRAM	6416081	MCC-1 MOTOR CONTROL CENTER LIGHT & SWITCH LAYOUT
6416023	CONTROL CONSOLE OUTPUTS SCHEMATIC DIAGRAM	6416082	SPARE
6416024	CONTROL CONSOLE OUTPUTS SCHEMATIC DIAGRAM	6416083	SPARE
6416025	CONTROL CONSOLE OUTPUTS SCHEMATIC DIAGRAM	6416084	SPARE
6416026	CONTROL CONSOLE OUTPUTS SCHEMATIC DIAGRAM	6416085	SPARE
6416027	SPARE	6416086	SPARE
6416028	SPARE	6416087	SPARE
6416029	SPARE	6416088	SPARE
6416030	EAST I/O SCHEMATIC POWER SCHEMATIC DIAGRAM	6416089	SPARE
6416031	EAST I/O SCHEMATIC INPUTS SCHEMATIC DIAGRAM	6416090	CONSOLE LAYOUT
6416032	SPARE	6416091	LOWER CONTROL LAYOUT
6416033	EAST I/O SCHEMATIC INPUTS SCHEMATIC DIAGRAM	6416091A	LOWER CONTROL LAYOUT DIMENSION
6416034	SPARE	6416092	UPPER CONTROL LAYOUT
6416035	WEST I/O SCHEMATIC POWER SCHEMATIC DIAGRAM	6416092A	UPPER CONTROL LAYOUT DIMENSION
6416036	WEST I/O SCHEMATIC INPUTS SCHEMATIC DIAGRAM	6416093	CONTROL CONSOLE SUBPANEL
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6416038	SPARE	6416095	SPARE
6416039	RACK #2 I/O SCHEMATIC	6416096	SPARE
6416040	TRAFFIC SIGNAL CONTROL SCHEMATIC DIAGRAM	6416097	SPARE
6416041	TRAFFIC SIGNAL CONTROL SCHEMATIC DIAGRAM	6416098	SPARE
6416042	HEATING PANEL CONTROL SCHEMATIC DIAGRAM	6416099	SPARE
6416043	SPARE	6416100	PLC CABINET LAYOUT
6416044	SPARE	6416101	MAIN PLC PANEL LAYOUT
6416045	EAST & WEST WARNING GATES LIGHTS GONGS & TRAFFIC SIGNALS SCHEMATIC DIAGRAM	6416102	MAIN PLC BILL OF MATERIALS
6416046	SPARE	6416103	EAST REMOTE I/O CABINET LAYOUT AND BILL OF MATERIALS
6416047	SPARE	6416104	WEST REMOTE I/O CABINET LAYOUT AND BILL OF MATERIALS
6416048	SPARE	6416105	PC-1 EAST TERMINAL CABINET
6416049	SPARE	6416106	PC-2 EAST TERMINAL CABINET
6416050	REMOTE I/O COMMUNICATION LINK SINGLE LINE	6416107	CC-1 EAST TERMINAL CABINET
6416051	SPARE	6416108	PC-5 EAST TERMINAL CABINET
6416052	PLC REMOTE I/O COMMUNICATION LINK	6416109	PC-7 EAST TERMINAL CABINET
6416053	ETHERNET COMMUNICATION NETWORK	6416110	PC-3 WEST TERMINAL CABINET
6416054	LIMIT SWITCH CONTACT DEVELOPMENT	6416111	PC-4 WEST TERMINAL CABINET
6416055	SPARE	6416112	CC-2 WEST TERMINAL CABINET
6416056	SPARE	6416113	PC-6 WEST TERMINAL CABINET
6416057	SPARE	6416114	PC-8 WEST TERMINAL CABINET
6416058	SPARE		

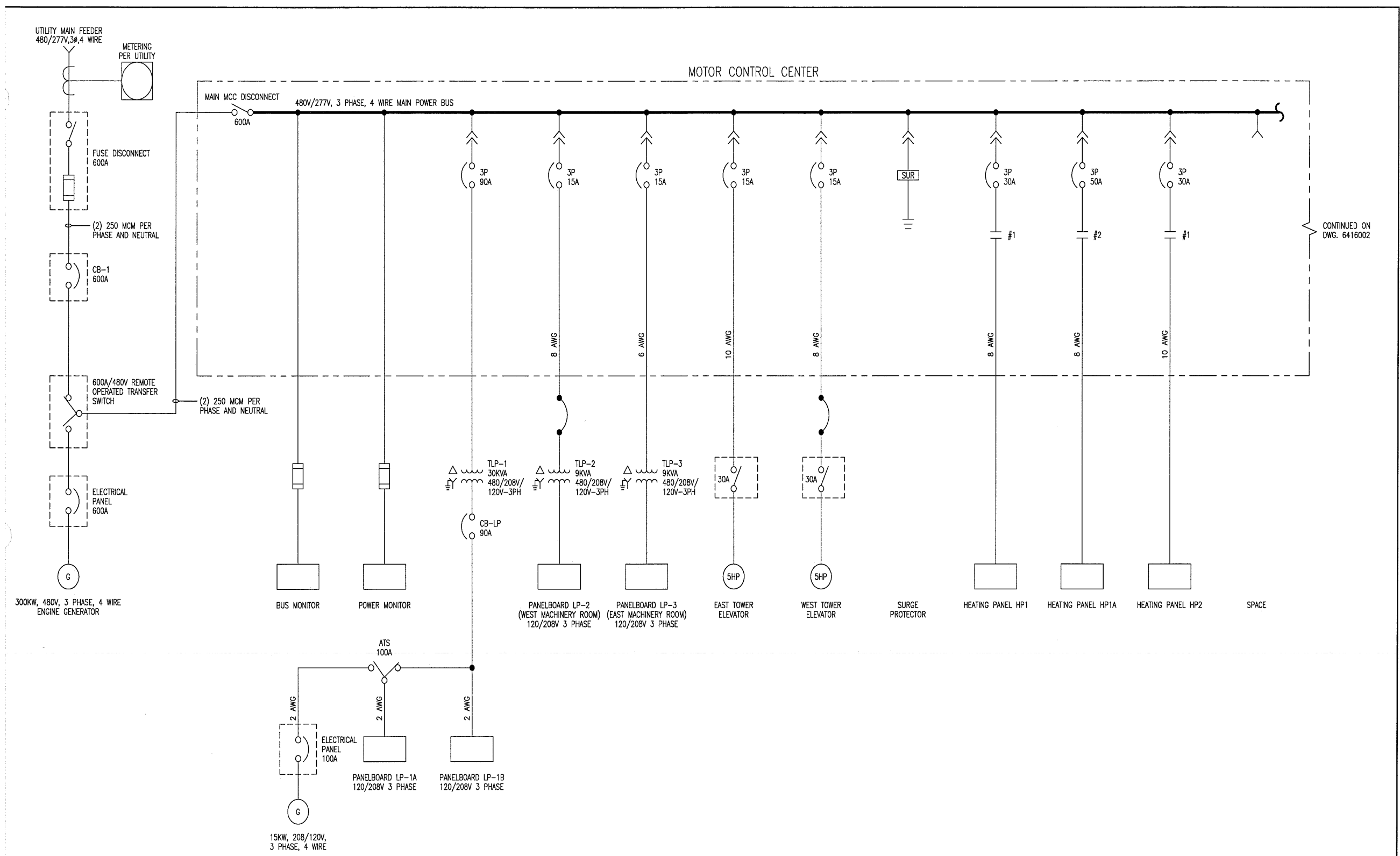
ELECTRICAL SCHEMATIC SYMBOLS

	POTENTIAL TRANSFORMER		WIRES CONNECTED
	SQUIRREL CAGE MOTOR (HP RATING AS INDICATED)		MAGNETIC RELAY CONTACT, NORMALLY CLOSED
	THERMAL OVERLOAD RELAY		MAGNETIC RELAY CONTACT, NORMALLY OPEN
	MAGNETIC OVERCURRENT RELAY		N.O. REMOTE CONTACT
	3-PHASE TRANSFORMER		SELECTOR SWITCH WITH MAINTAINED CONTACTS
	CB-CIRCUIT BREAKER: THERMAL/MAGNETIC, MCP-MOTOR CIRCUIT PROTECTOR		SELECTOR SWITCH WITH MOMENTARY CONTACTS
	CURRENT TRANSFORMER		N.O. PUSHBUTTON CONTACT
	FUSE		N.C. PUSHBUTTON CONTACT
	FULL VOLTAGE MAGNETIC REVERSING STARTER, NEMA SIZE 2		SOLENOID
	FULL VOLTAGE MAGNETIC NON-REVERSING STARTER, NEMA SIZE 1		
	GROUND		
	MAGNETIC RELAY COIL/CONTACTOR		
	INDICATING LIGHT		
	DIODE		
	N.O. LIMIT SWITCH CONTACT		
	N.C. LIMIT SWITCH CONTACT		

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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY	

		JOB No. 6416
CORPORATION 7461 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		APPROVED BY: Y
CAPE FEAR BRIDGE		DESIGNED BY: VY
DRAWING INDEX AND ELECTRICAL SCHEMATIC SYMBOLS		DRAWN BY: LVT
DATE: 8/11/06		CHECKED BY: VY
SCALE: NONE		SIZE: D
DRAWING NO. 6416000		
FOR: ATLANTIC ELECTRIC		



CONTINUED ON DWG. 6416002

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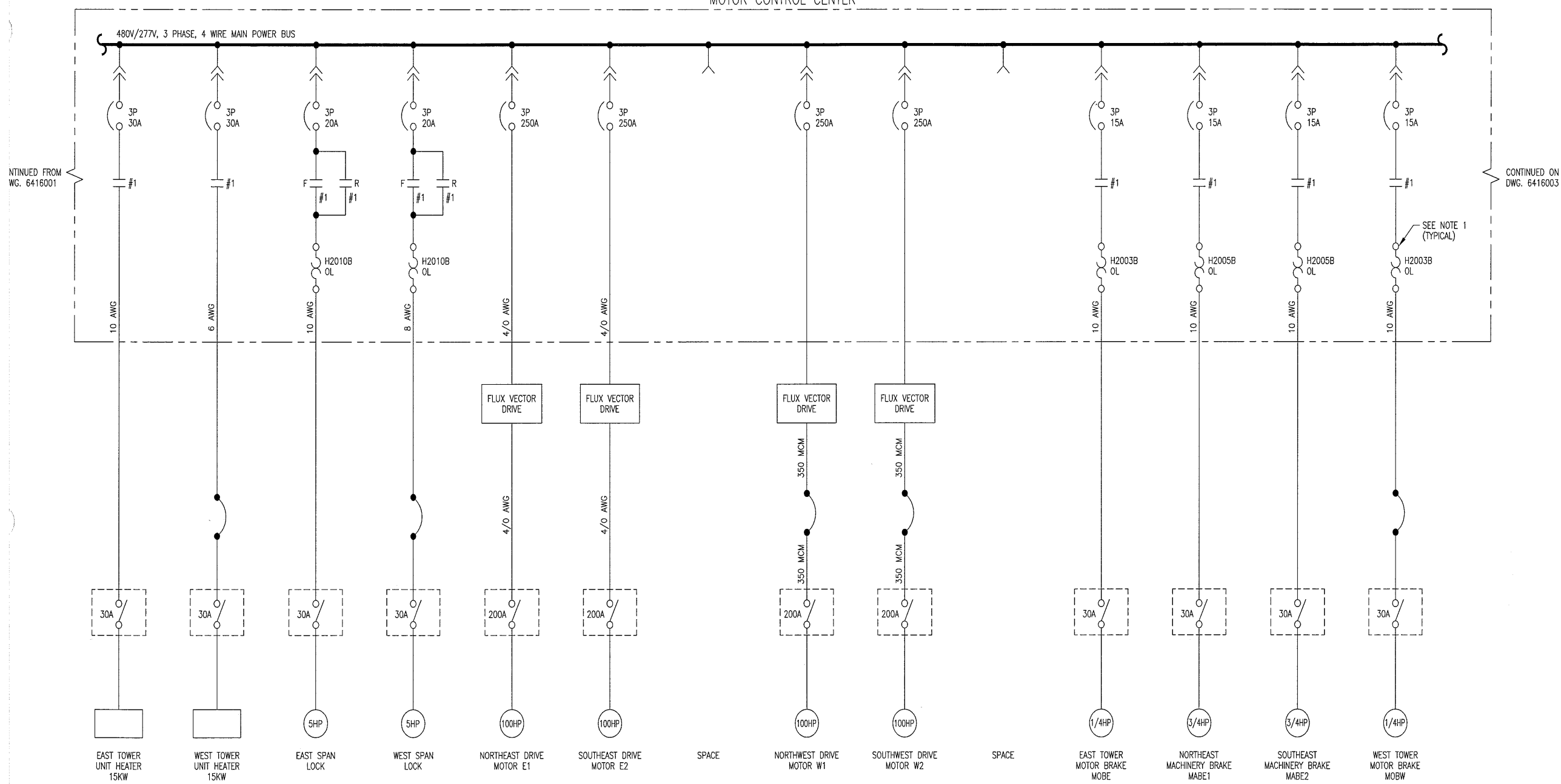
- | | | | |
|-----------------------------|--------------------------------|-------------------------------|------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |

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		JOB No. 6416 APPROVED BY: VY DESIGNED BY: VY DRAWN BY: LVT CHECKED BY: VY DATE: 8/11/06 SCALE: NONE SIZE: D DRAWING NO. 6416001 FOR: ATLANTIC ELECTRIC
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MOTOR CONTROL CENTER



CONTINUED FROM DWG. 6416001

CONTINUED ON DWG. 6416003


NOTES:
1. MOTOR STATOR OVERLOAD RELAY TO BE CLASS 20 BIMETALLIC TYPE.

LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	SS3 TB IN PLC CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	E 120V SURGE SUPPRESSOR
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	SS3 TB IN EAST I/O CABINET
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	W 120V SURGE SUPPRESSOR
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		SS3 TB IN WEST I/O CABINET

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PANATROL
CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

JOB No. 6416

APPROVED BY: YV

DESIGNED BY: YV

DRAWN BY: LVT

CHECKED BY: YV

DATE: 8/11/06

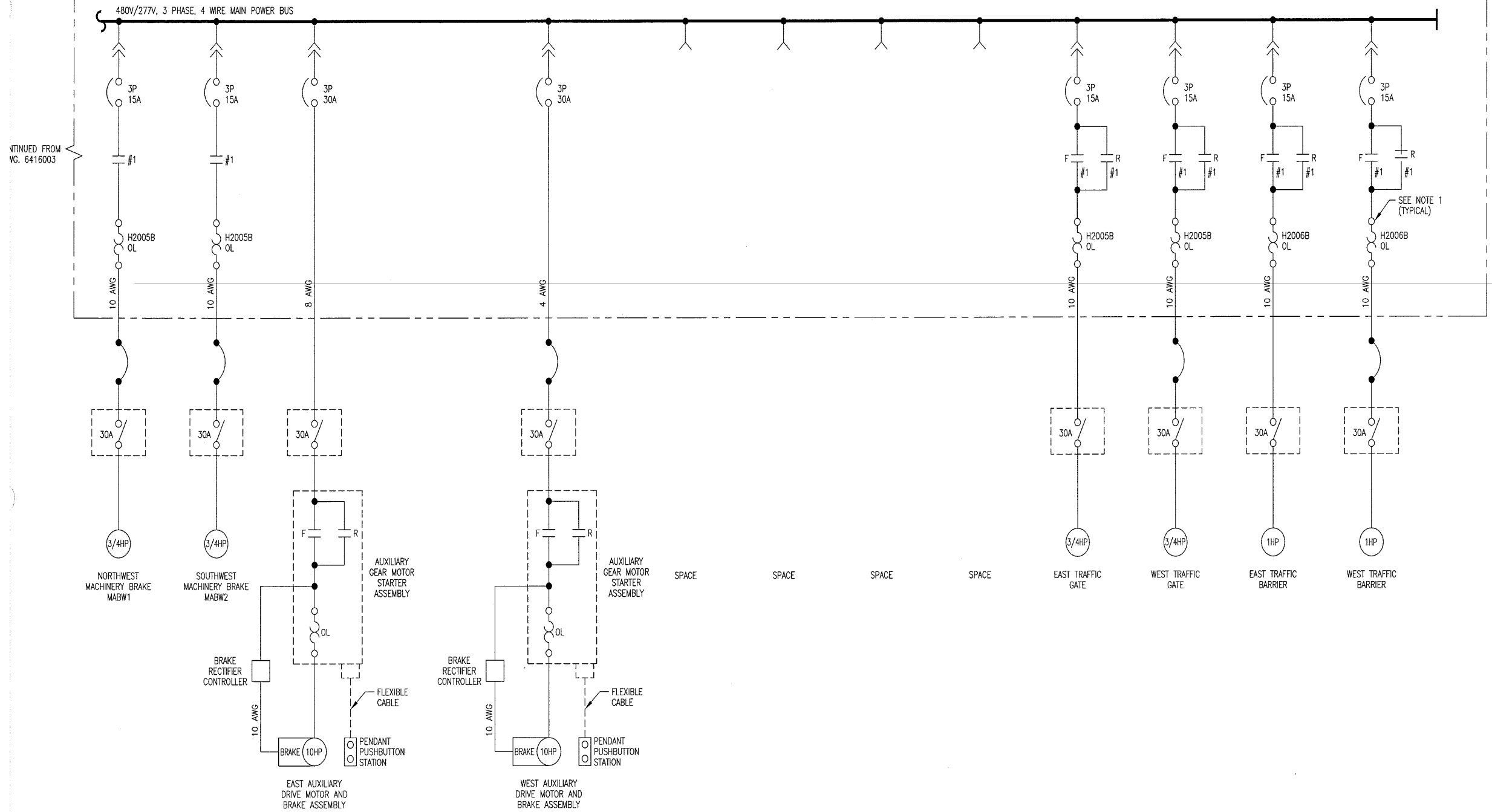
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SIZE: D

DRAWING NO. 6416002

FOR: ATLANTIC ELECTRIC

MOTOR CONTROL CENTER



CONTINUED FROM
VG. 6416003

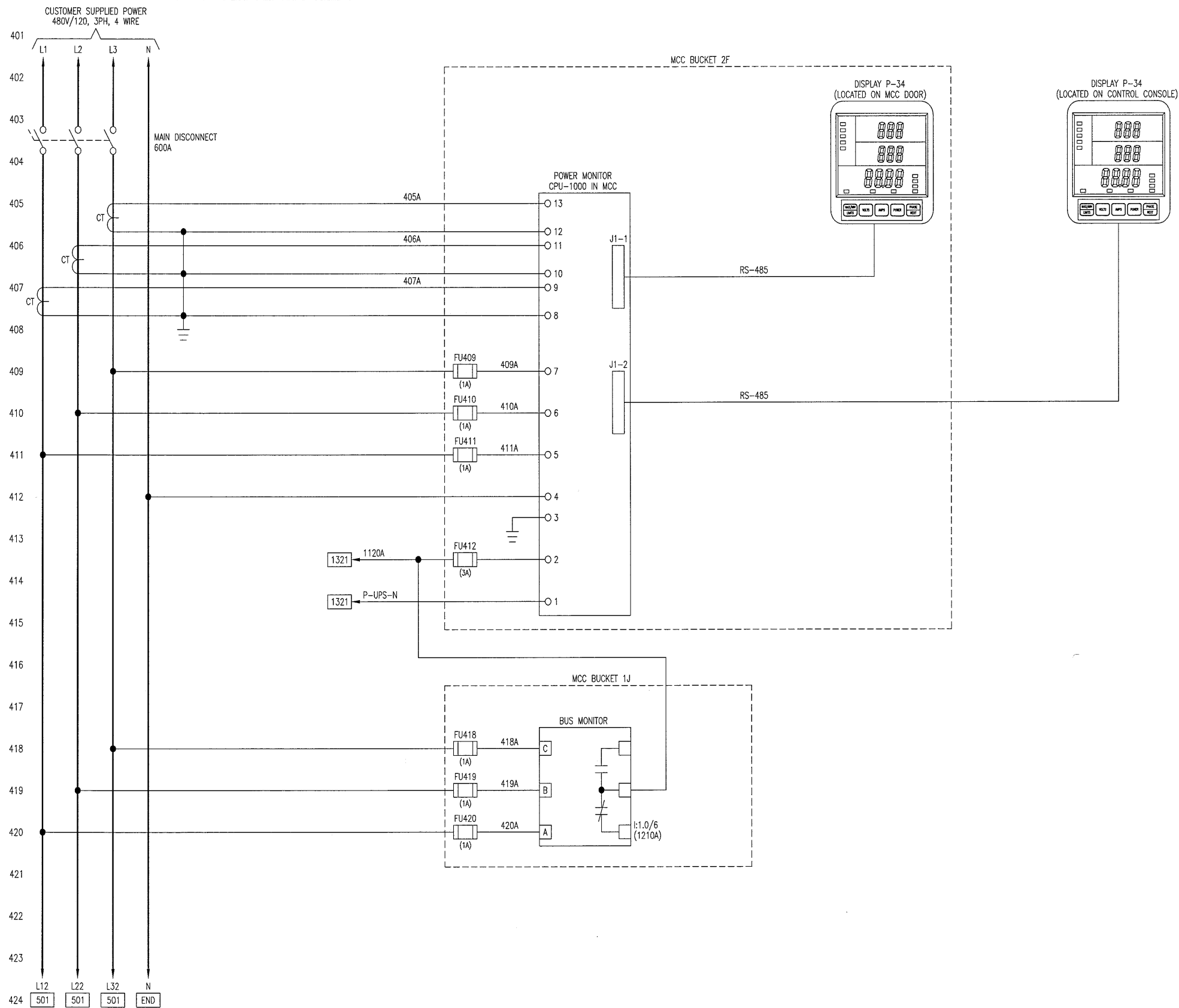
- NOTES:
1. MOTOR STATER OVERLOAD RELAY TO BE CLASS 20 BIMETALLIC TYPE.

LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR TB IN PLC CABINET
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	E 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	W 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		

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A	8/14/06		ISSUED FOR APPROVAL	LVT	YY	
<p style="text-align: center;">PANATROL CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638</p> <p style="text-align: center;">CAPE FEAR BRIDGE SINGLE LINE DIAGRAM</p>						
<p>APPROVED BY: YY DESIGNED BY: YY DRAWN BY: LVT CHECKED BY: YY</p>						<p>JOB No. 6416 DATE: 8/11/06 SCALE: NONE SIZE: D</p>
<p>ATLANTIC ELECTRIC</p>						<p>DRAWING NO. 6416003</p>



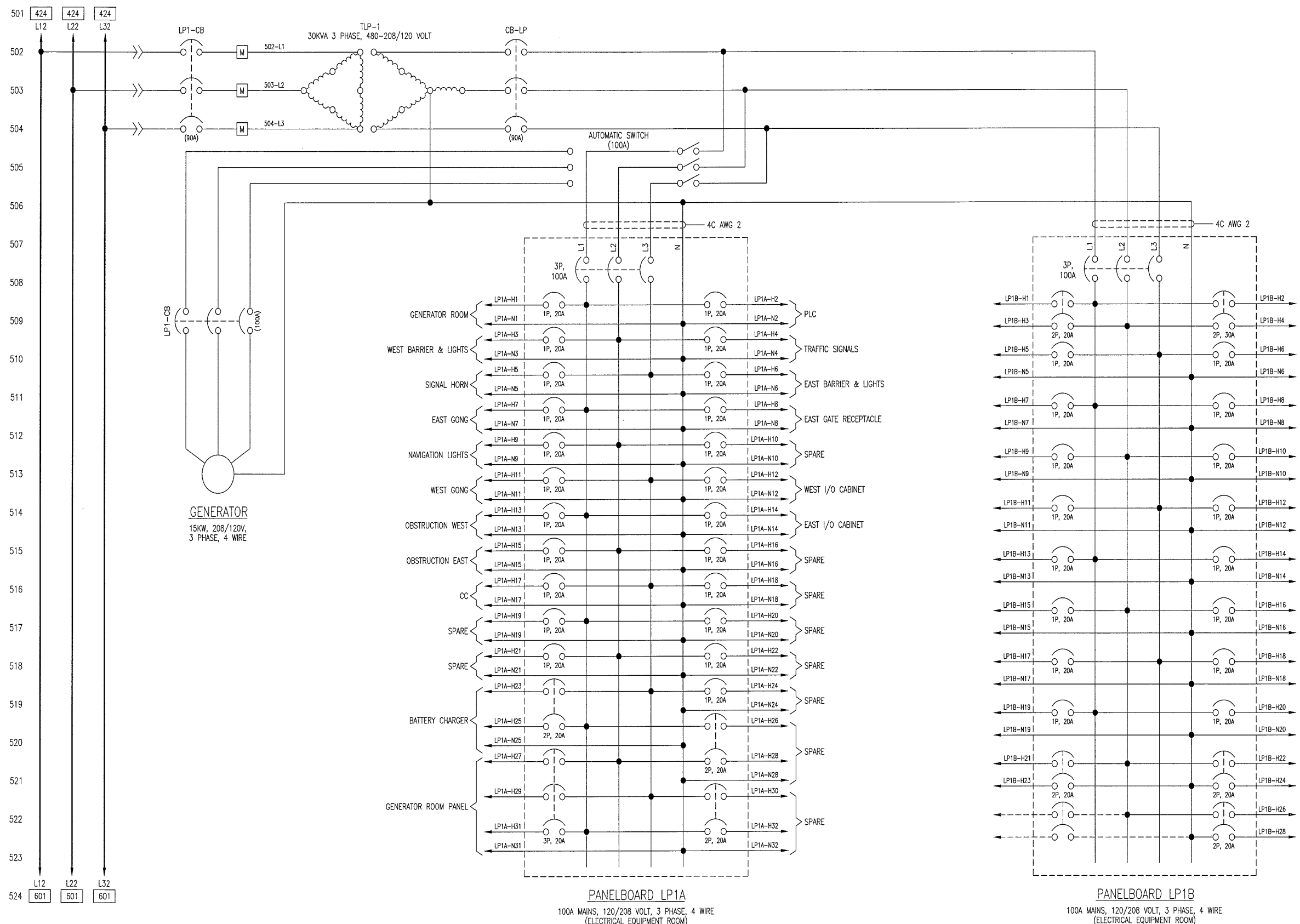
LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	SS3 TB IN PLC CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	E 120V SURGE SUPPRESSOR
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	SS3 TB IN EAST I/O CABINET
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	W 120V SURGE SUPPRESSOR
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		SS3 TB IN WEST I/O CABINET

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PANATROL CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		JOB No. 6416
CAPE FEAR BRIDGE		APPROVED BY: YV
MCC 3 LINE DIAGRAM		DESIGNED BY: YV
ATLANTIC ELECTRIC		DRAWN BY: LVT
6416004		CHECKED BY: YV
12/3/2007 1:49:51 PM		DATE: 8/11/06
SCALE: NONE		SIZE: D



LEGEND:

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|-----------------------------|--------------------------------|-------------------------------|------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |

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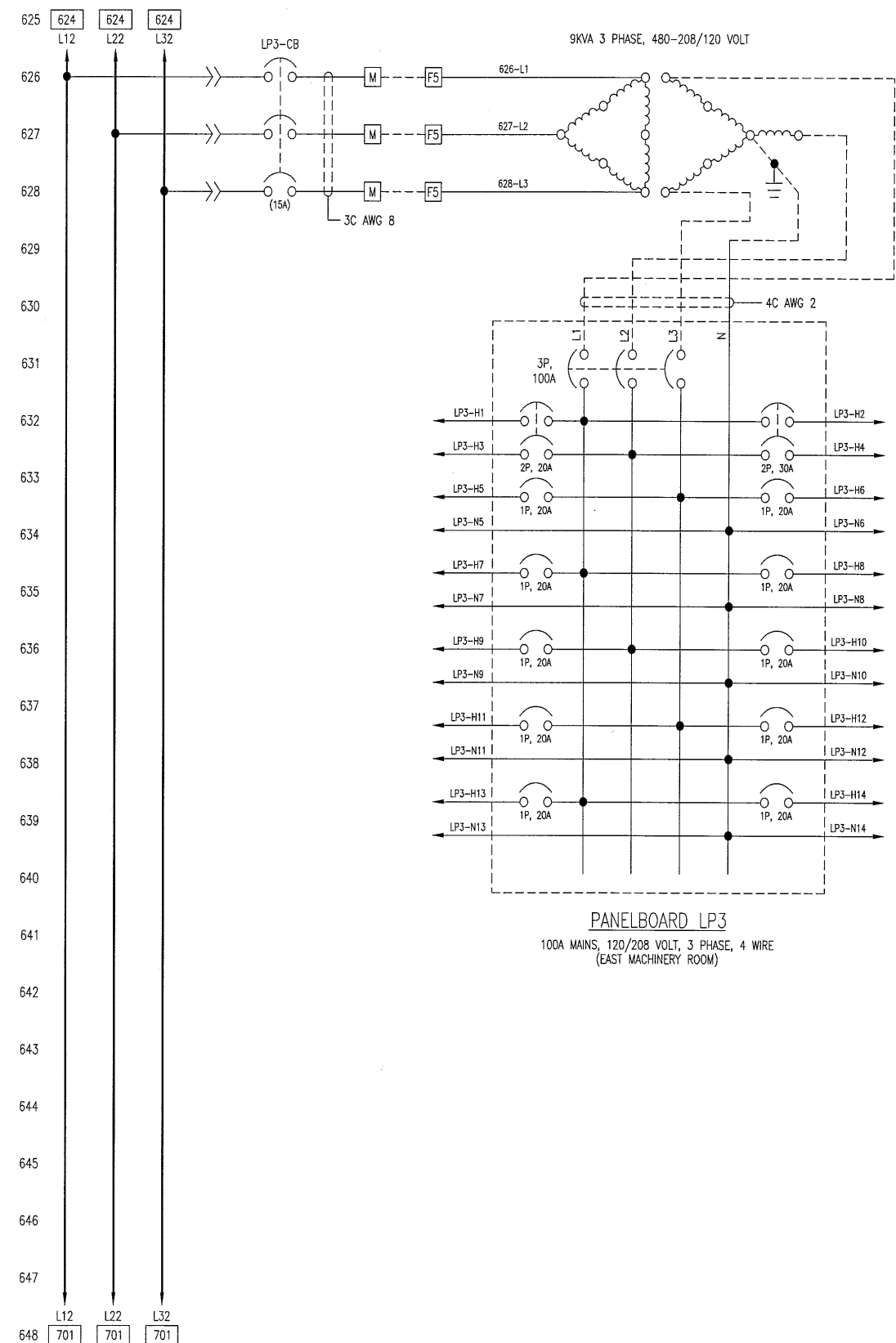
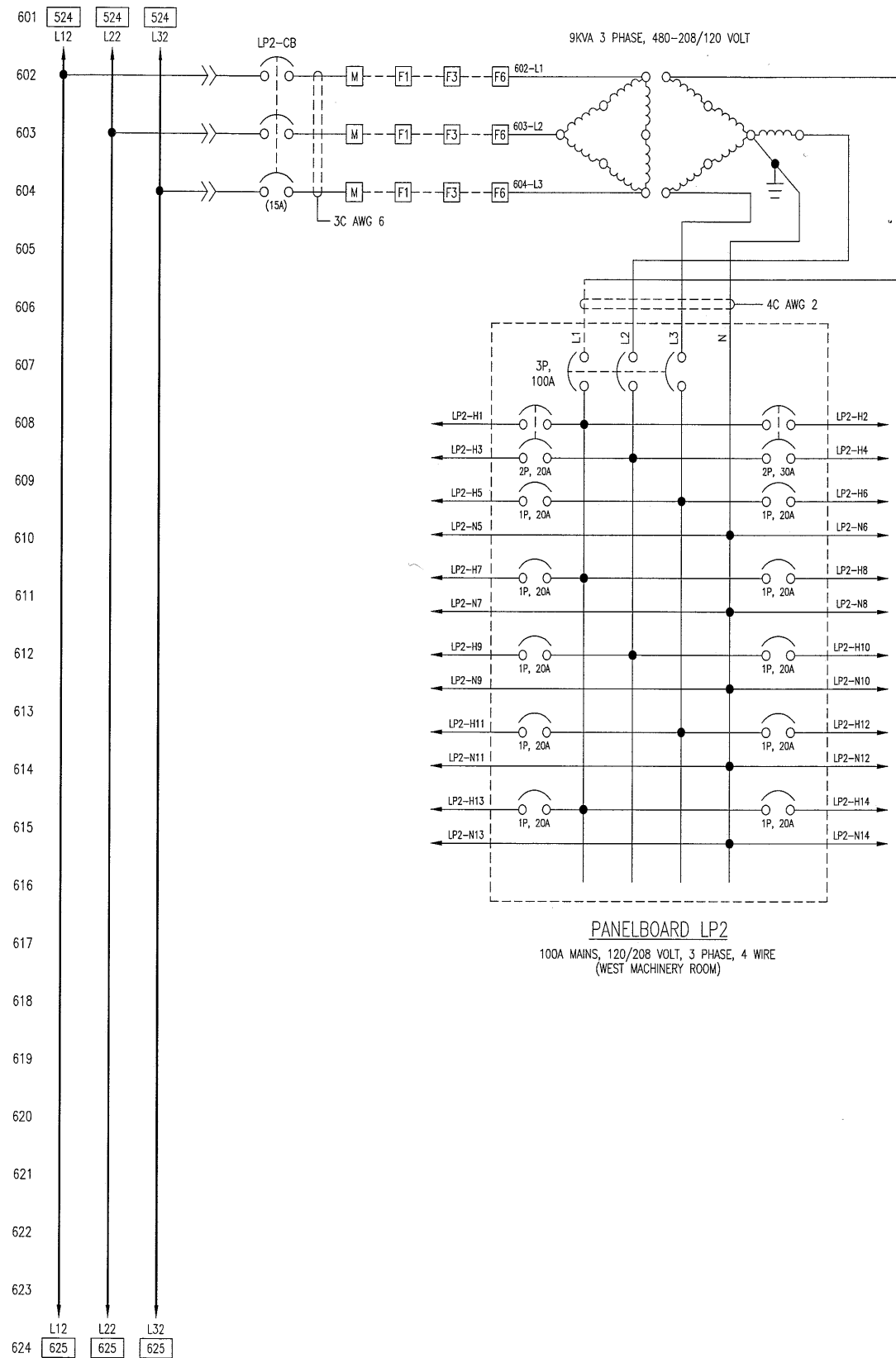
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PANATROL CORPORATION
 7401 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 MCC 3 LINE DIAGRAM

ATLANTIC ELECTRIC

JOB No.	6416
APPROVED BY:	VY
DESIGNED BY:	VY
DRAWN BY:	LVT
CHECKED BY:	VY
DATE:	8/11/06
SCALE:	NONE
SIZE:	D
DRAWING NO.	6416005



LEGEND:

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|-----------------------------|--------------------------------|-------------------------------|------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |

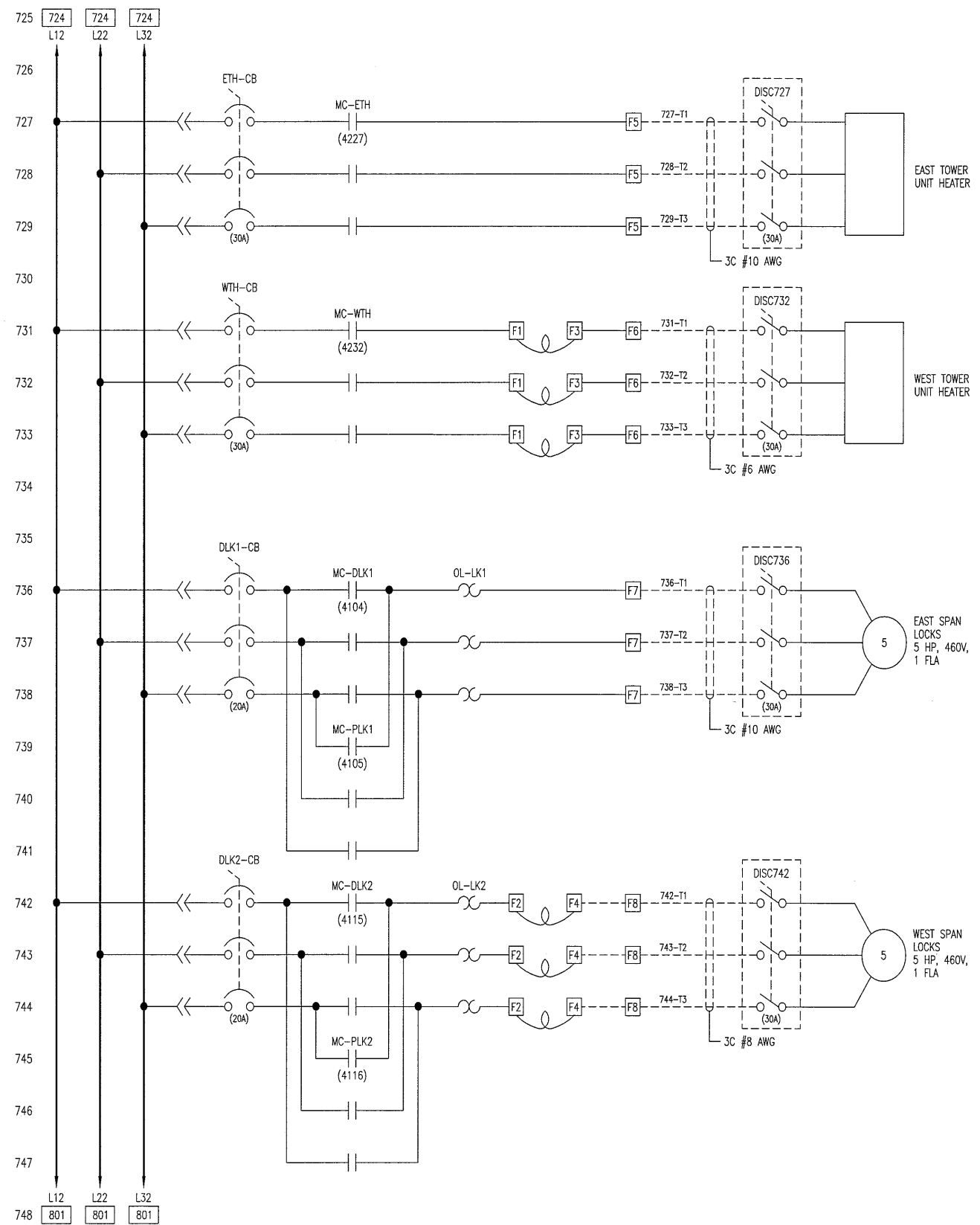
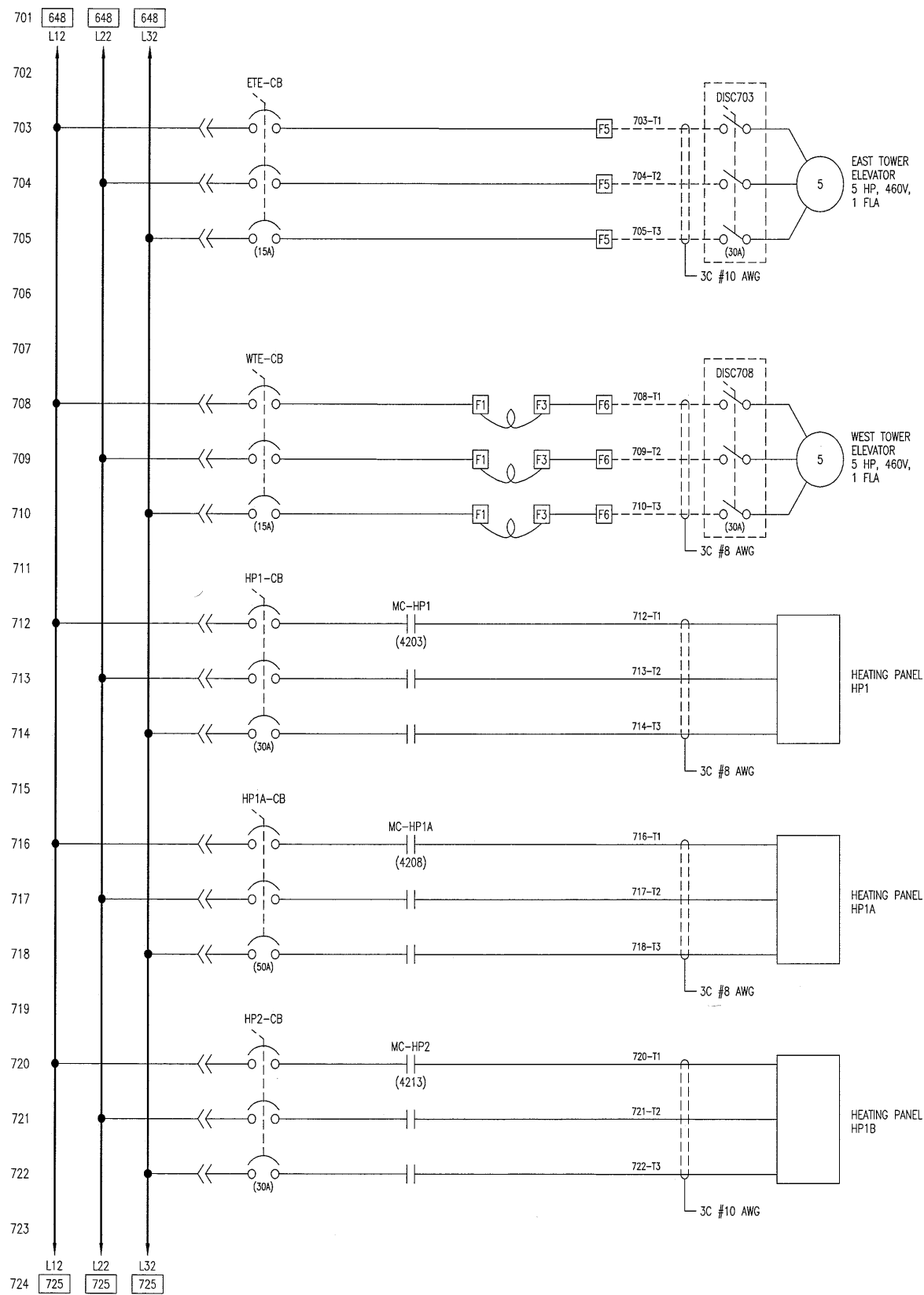
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PANATROL CORPORATION
 7481 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 MCC 3 LINE DIAGRAM

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416006



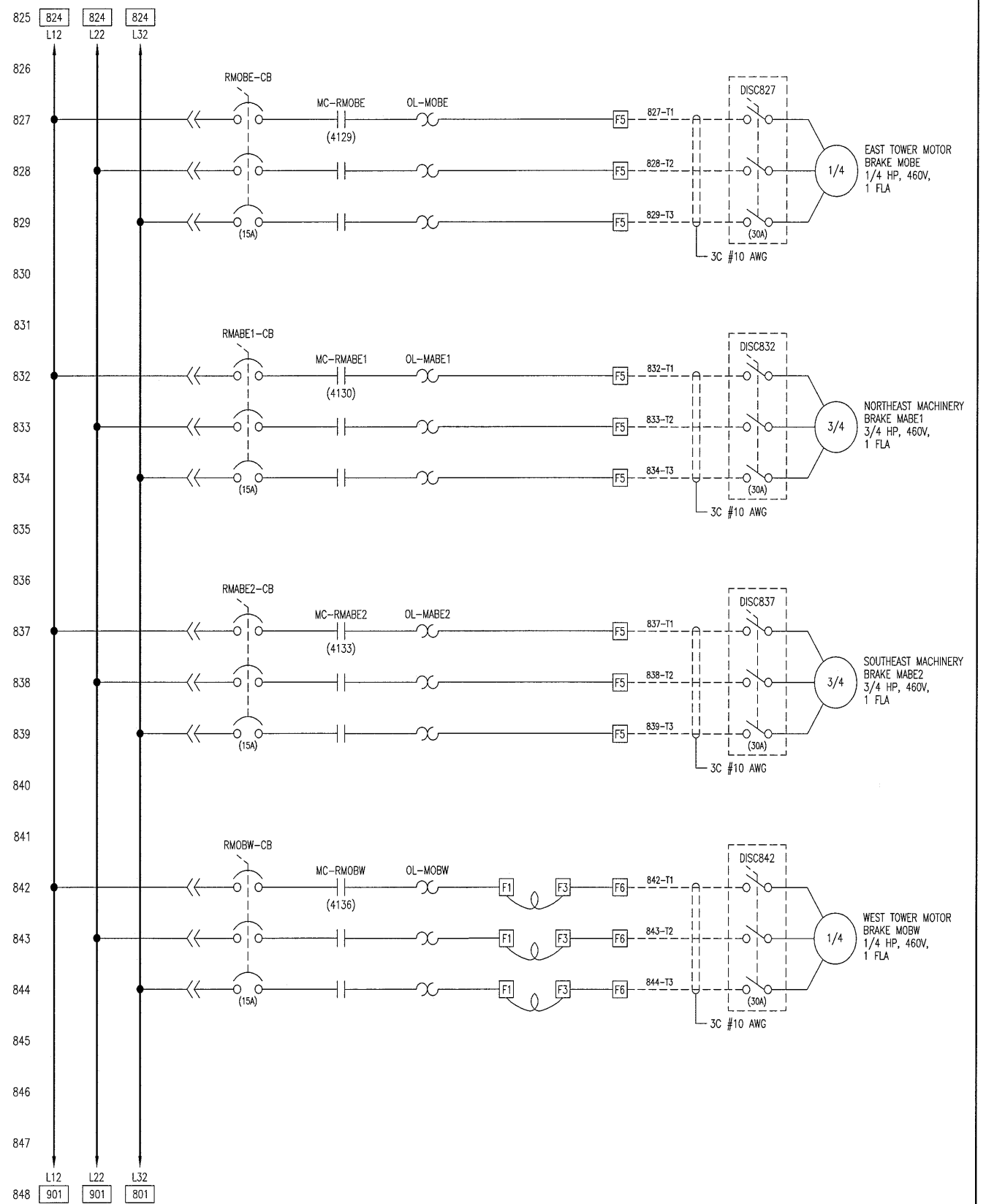
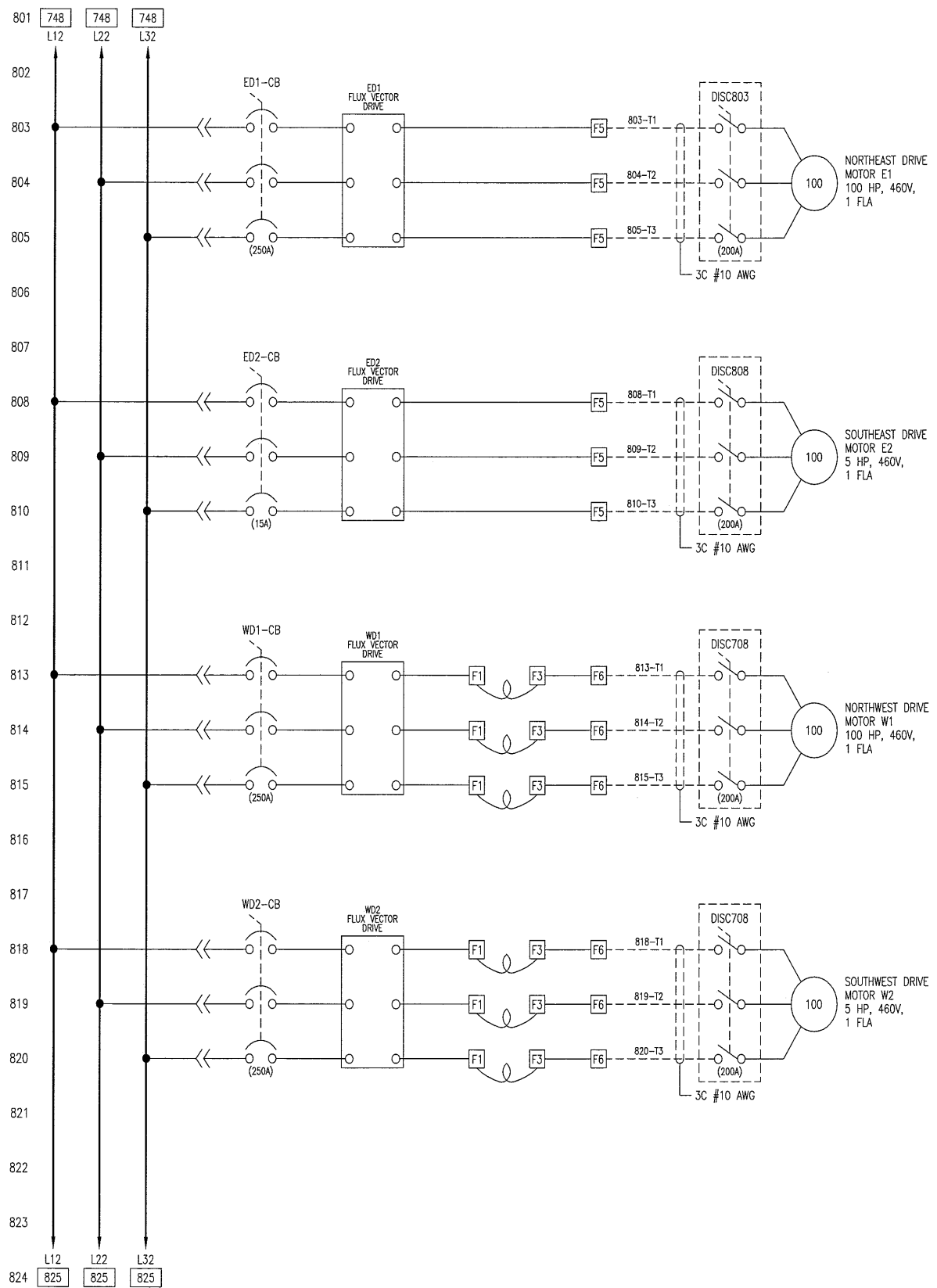
LEGEND:

- | | | | |
|----------------------------------|-------------------------------------|------------------------------------|-----------------------------------|
| P TB IN PLC CABINET | D3 TB IN DRIVE 3 CABINET | F3 TB IN WEST PC3 CABINET | P 120V SURGE SUPPRESSOR |
| C TB IN CONSOLE | D4 TB IN DRIVE 4 CABINET | F4 TB IN WEST PC4 CABINET | SS3 TB IN PLC CABINET |
| C1 TB IN EAST CC1 CABINET | M TB IN MOTOR CONTROL CENTER | F6 TB IN WEST PC6 CABINET | E 120V SURGE SUPPRESSOR |
| C2 TB IN WEST CC2 CABINET | F1 TB IN EAST PC1 CABINET | F7 TB IN EAST FIELD CABINET | SS3 TB IN EAST I/O CABINET |
| D1 TB IN DRIVE 1 CABINET | F2 TB IN EAST PC2 CABINET | F8 TB IN WEST FIELD CABINET | W 120V SURGE SUPPRESSOR |
| D2 TB IN DRIVE 2 CABINET | F5 TB IN EAST PC5 CABINET | | SS3 TB IN WEST I/O CABINET |

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		JOB No. 6416	
		APPROVED BY: YV	
CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		DESIGNED BY: YV	
		DRAWN BY: LVT	
CAPE FEAR BRIDGE MCC 3 LINE DIAGRAM		CHECKED BY: YV	
		DATE: 8/11/06	
FOR: ATLANTIC ELECTRIC		SCALE: NONE	SIZE: D
		DRAWING NO. 6416007	

NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YV
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YV
A	8/14/06	ISSUED FOR APPROVAL	LVT	YV



LEGEND:

- | | | | |
|----------------------------------|-------------------------------------|------------------------------------|-----------------------------------|
| P TB IN PLC CABINET | D3 TB IN DRIVE 3 CABINET | F3 TB IN WEST PC3 CABINET | P 120V SURGE SUPPRESSOR |
| C TB IN CONSOLE | D4 TB IN DRIVE 4 CABINET | F4 TB IN WEST PC4 CABINET | SS3 TB IN PLC CABINET |
| C1 TB IN EAST CC1 CABINET | M TB IN MOTOR CONTROL CENTER | F6 TB IN WEST PC6 CABINET | E 120V SURGE SUPPRESSOR |
| C2 TB IN WEST CC2 CABINET | F1 TB IN EAST PC1 CABINET | F7 TB IN EAST FIELD CABINET | SS3 TB IN EAST I/O CABINET |
| D1 TB IN DRIVE 1 CABINET | F2 TB IN EAST PC2 CABINET | F8 TB IN WEST FIELD CABINET | W 120V SURGE SUPPRESSOR |
| D2 TB IN DRIVE 2 CABINET | F5 TB IN EAST PC5 CABINET | | SS3 TB IN WEST I/O CABINET |

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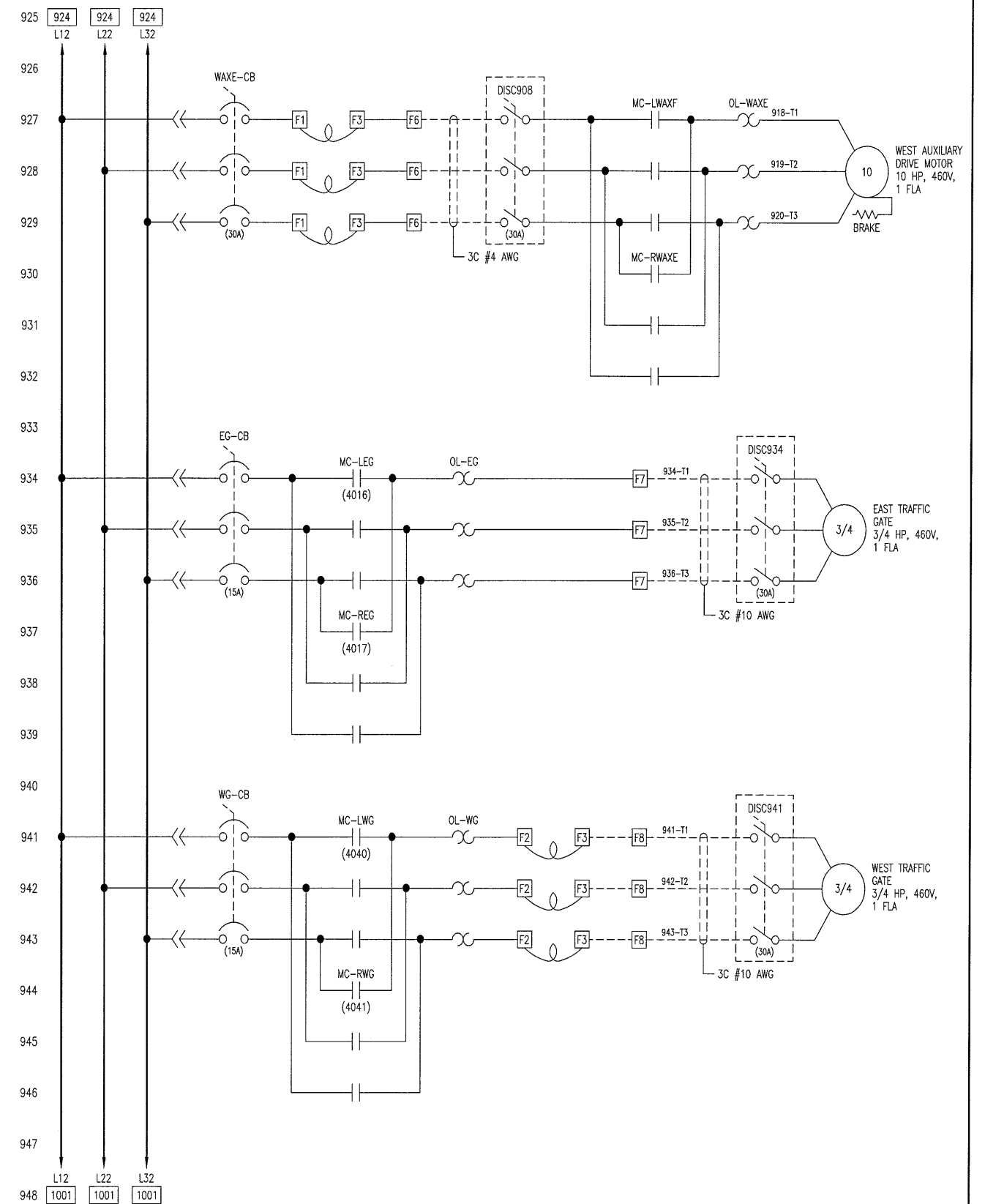
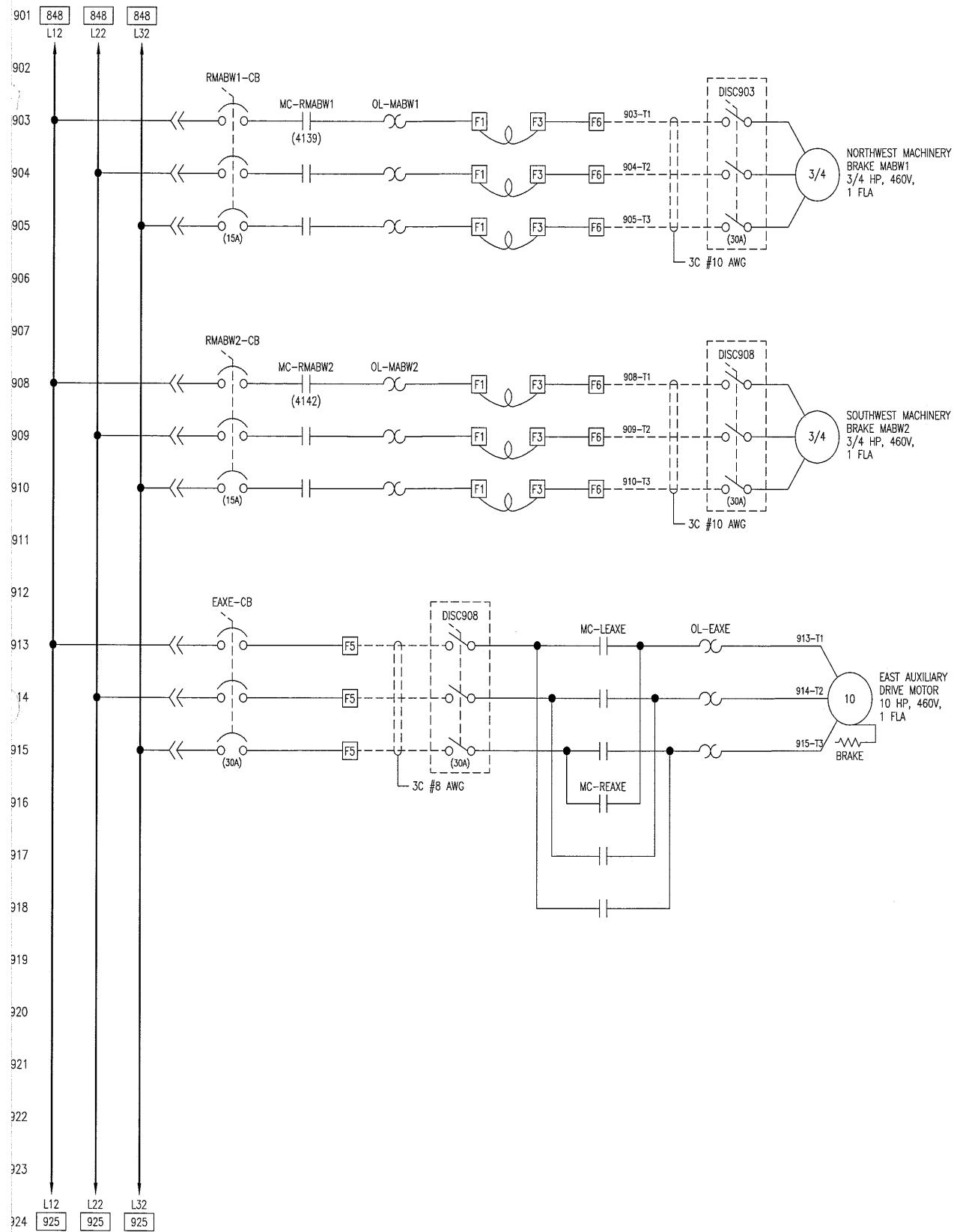
NO.		DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07		REVISED AS INSTALLED	LVT	YY
B	1/18/07		ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06		ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
7461 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

JOB No. 6416	
APPROVED BY: YY	DESIGNED BY: YY
DRAWN BY: LVT	CHECKED BY: YY
DATE: 8/11/06	
SCALE: NONE	SIZE: D
DRAWING NO. 6416008	

CAPE FEAR BRIDGE
MCC 3 LINE DIAGRAM

FOR: ATLANTIC ELECTRIC

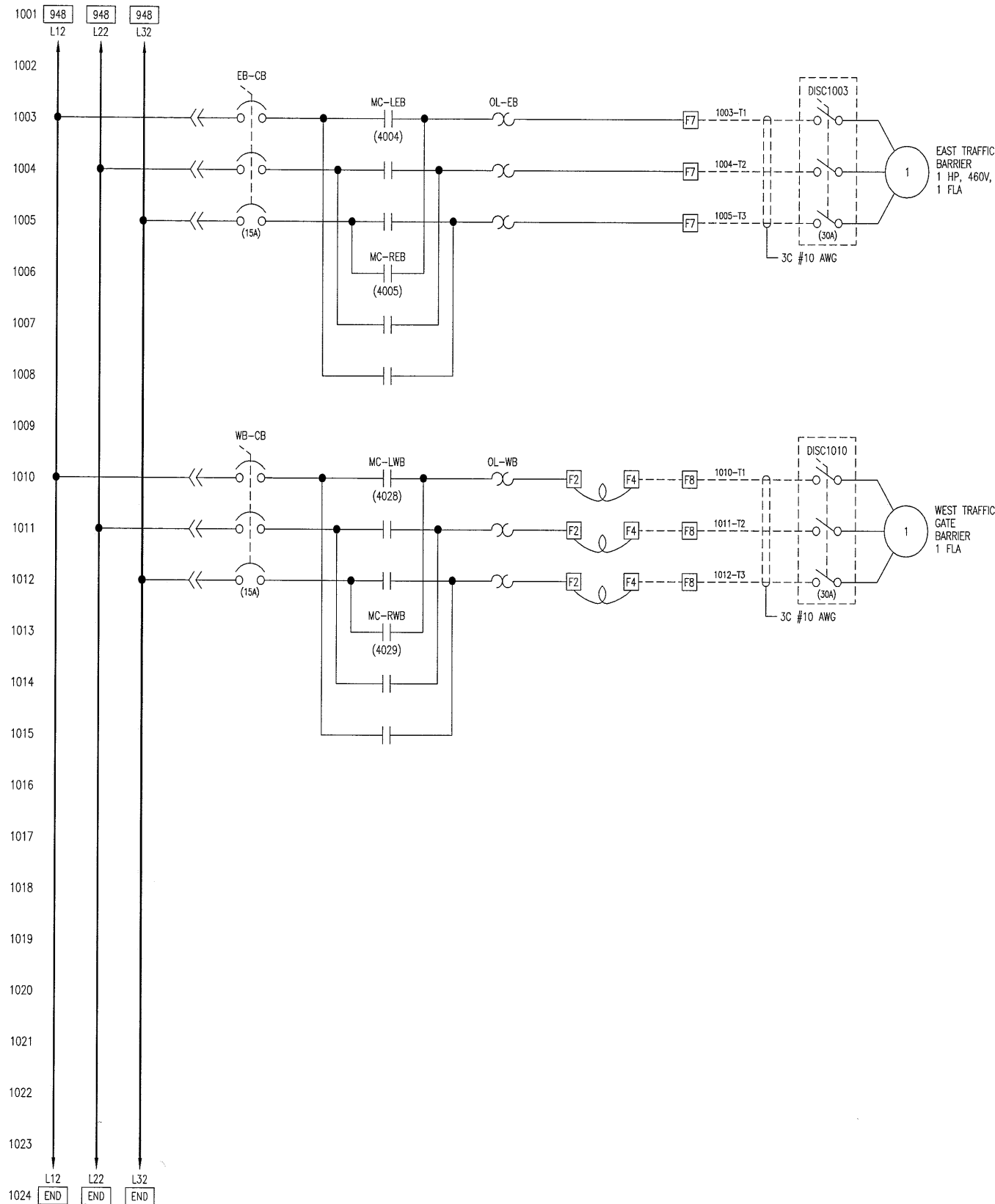


LEGEND:

P	TB IN PLC CABINET	D3	TB IN DRIVE 3 CABINET	F3	TB IN WEST PC3 CABINET	P	120V SURGE SUPPRESSOR
C	TB IN CONSOLE	D4	TB IN DRIVE 4 CABINET	F4	TB IN WEST PC4 CABINET	SS3	TB IN PLC CABINET
C1	TB IN EAST CC1 CABINET	M	TB IN MOTOR CONTROL CENTER	F6	TB IN WEST PC6 CABINET	E	120V SURGE SUPPRESSOR
C2	TB IN WEST CC2 CABINET	F1	TB IN EAST PC1 CABINET	F7	TB IN EAST FIELD CABINET	SS3	TB IN EAST I/O CABINET
D1	TB IN DRIVE 1 CABINET	F2	TB IN EAST PC2 CABINET	F8	TB IN WEST FIELD CABINET	W	120V SURGE SUPPRESSOR
D2	TB IN DRIVE 2 CABINET	F5	TB IN EAST PC5 CABINET			SS3	TB IN WEST I/O CABINET

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												JOB No. 6416 APPROVED BY: YV DESIGNED BY: YV DRAWN BY: LVT CHECKED BY: YV	
C	10/12/07	REVISED AS INSTALLED	LVT	YV	CORPORATION 7481 SOUTH SAYERS AVE BEDFORD PARK, IL 60638		DATE: 8/11/06				SCALE: NONE SIZE: D		
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YV	CAPE FEAR BRIDGE		DRAWING NO.				6416009		
A	8/14/06	ISSUED FOR APPROVAL	LVT	YV	MCC 3 LINE DIAGRAM		FOR:				ATLANTIC ELECTRIC		
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY									



LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	SS3 TB IN PLC CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	E 120V SURGE SUPPRESSOR
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	SS3 TB IN EAST I/O CABINET
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	W 120V SURGE SUPPRESSOR
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		SS3 TB IN WEST I/O CABINET

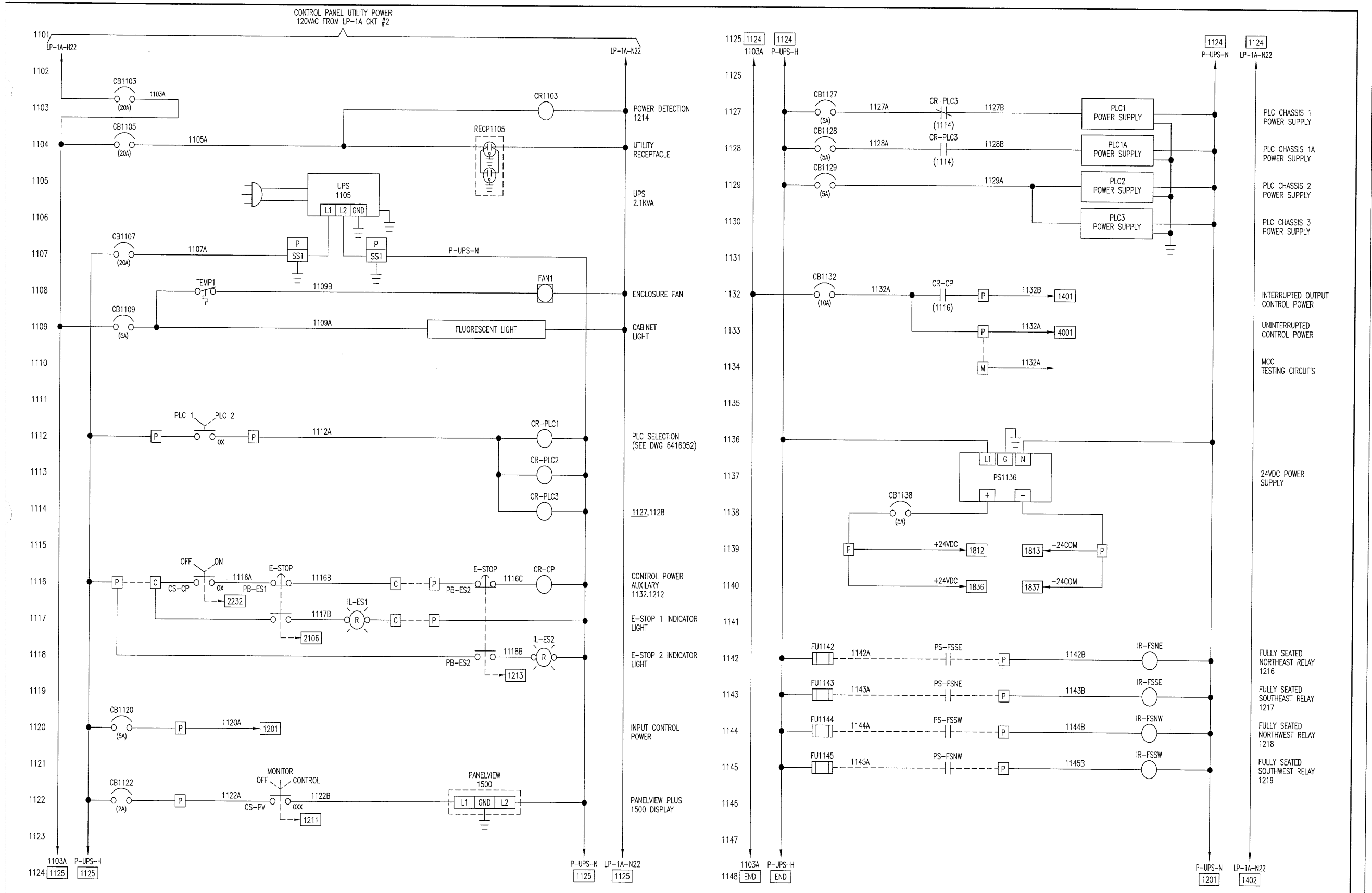
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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR
C	10/12/07	REVISED AS INSTALLED	LVT	YY	
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60658

CAPE FEAR BRIDGE
 MCC 3 LINE DIAGRAM

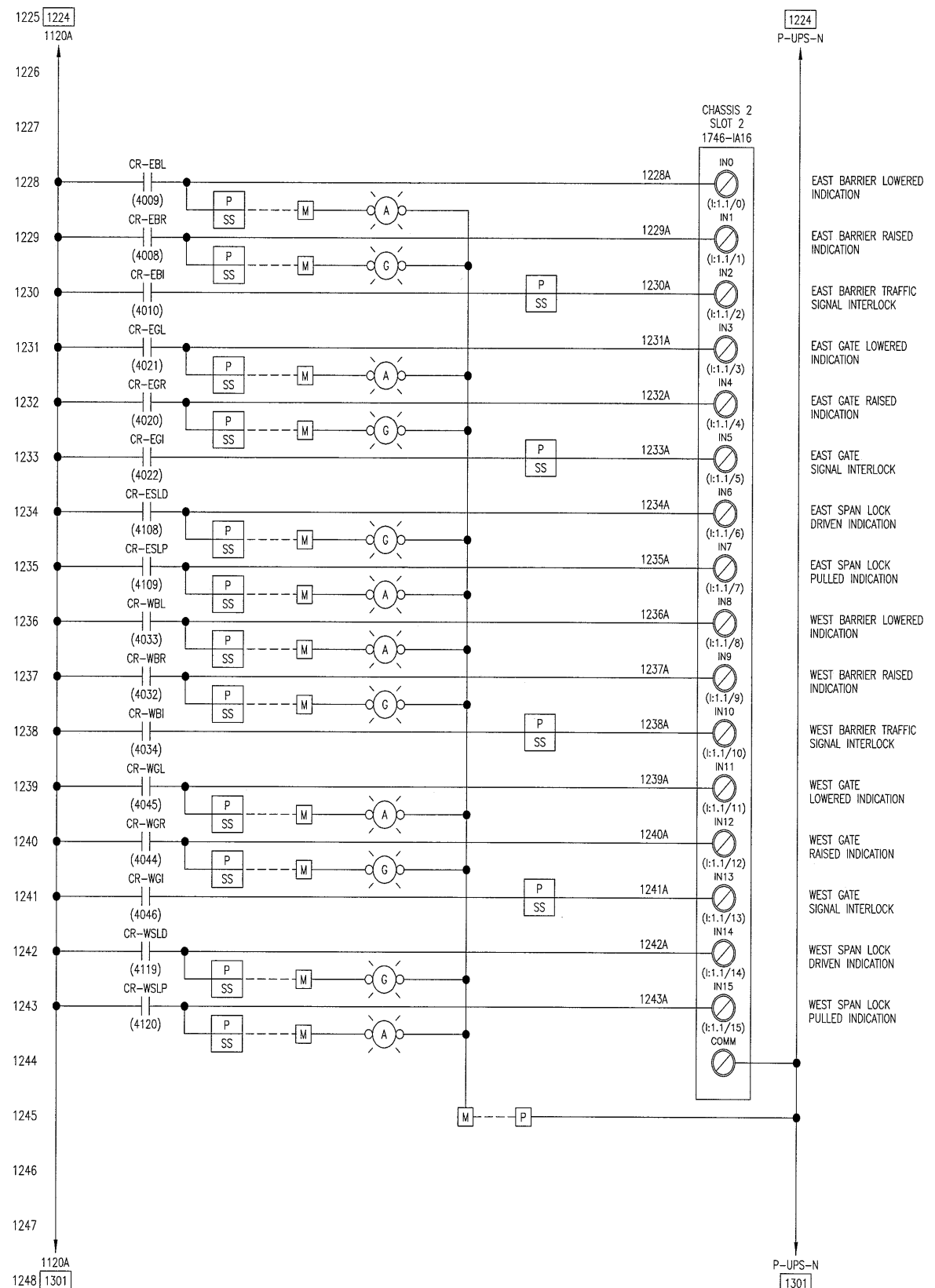
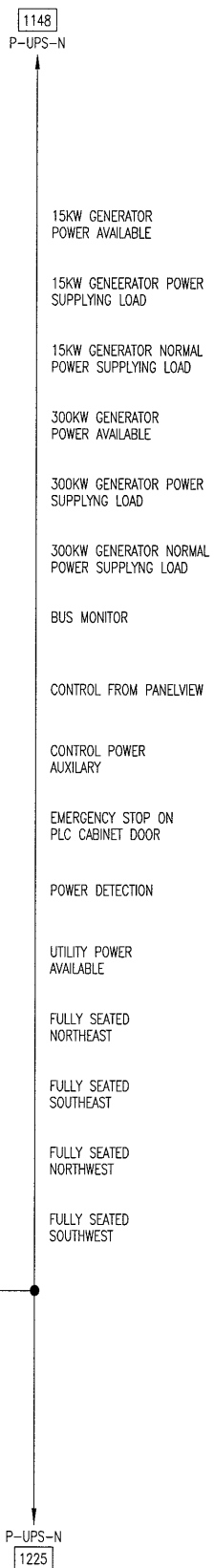
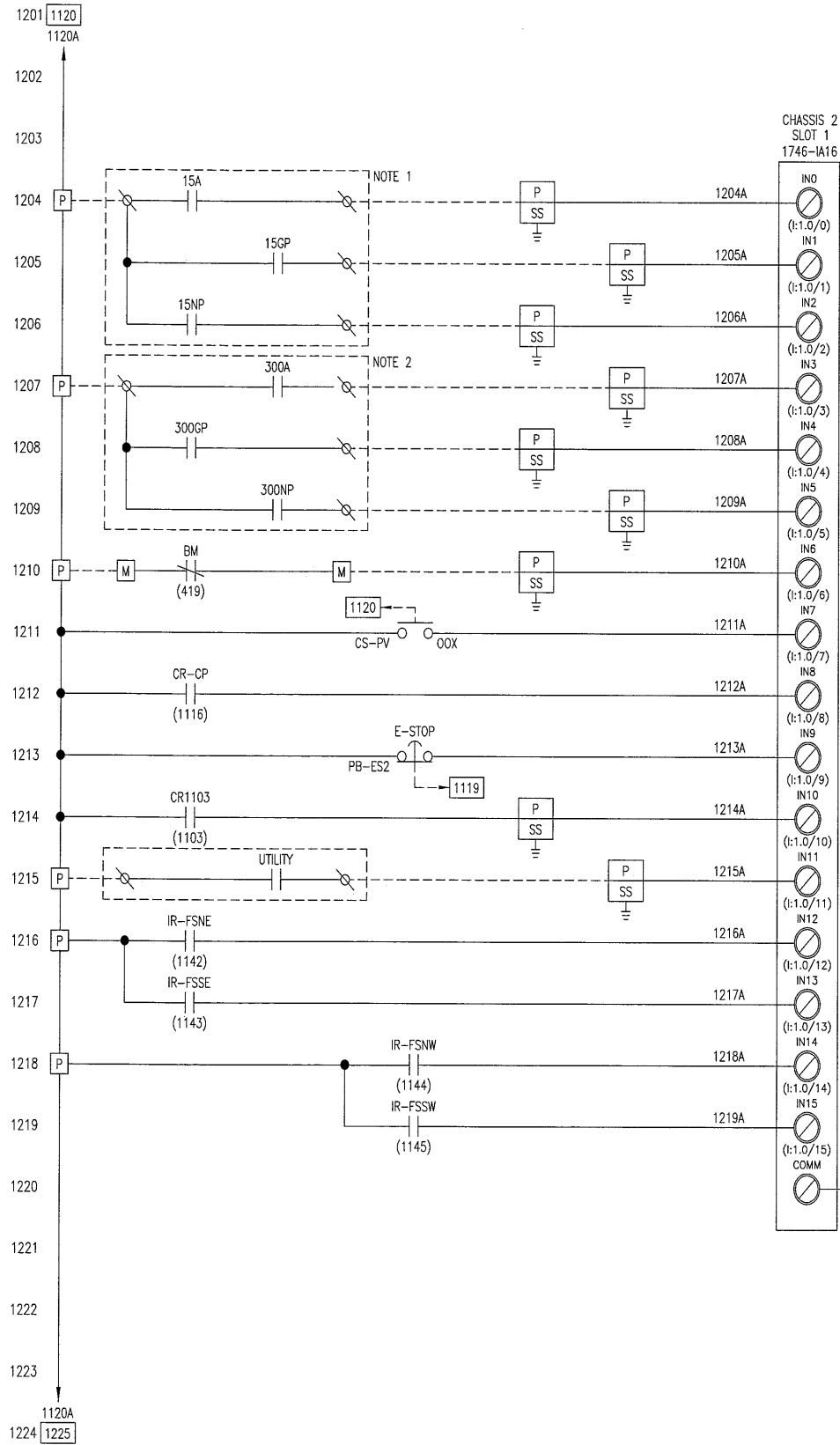
JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416010
 FOR: ATLANTIC ELECTRIC



- LEGEND:**
- | | | | |
|----------------------------------|-------------------------------------|------------------------------------|-----------------------------------|
| P TB IN PLC CABINET | D3 TB IN DRIVE 3 CABINET | F3 TB IN WEST PC3 CABINET | P 120V SURGE SUPPRESSOR |
| C TB IN CONSOLE | D4 TB IN DRIVE 4 CABINET | F4 TB IN WEST PC4 CABINET | SS3 TB IN PLC CABINET |
| C1 TB IN EAST CC1 CABINET | M TB IN MOTOR CONTROL CENTER | F6 TB IN WEST PC6 CABINET | E 120V SURGE SUPPRESSOR |
| C2 TB IN WEST CC2 CABINET | F1 TB IN EAST PC1 CABINET | F7 TB IN EAST FIELD CABINET | SS3 TB IN EAST I/O CABINET |
| D1 TB IN DRIVE 1 CABINET | F2 TB IN EAST PC2 CABINET | F8 TB IN WEST FIELD CABINET | W 120V SURGE SUPPRESSOR |
| D2 TB IN DRIVE 2 CABINET | F5 TB IN EAST PC5 CABINET | | SS3 TB IN WEST I/O CABINET |

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		JOB No. 6416	
CORPORATION 7481 SOUTH SAYERS AVE BEDFORD PARK, IL 60638		APPROVED BY: YV DESIGNED BY: YV DRAWN BY: LVT CHECKED BY: YV	
CAPE FEAR BRIDGE PLC CABINET POWER SCHEMATIC DIAGRAM		DATE: 8/11/06 SCALE: NONE SIZE: D	
DRAWING NO. 6416011		FOR: ATLANTIC ELECTRIC	



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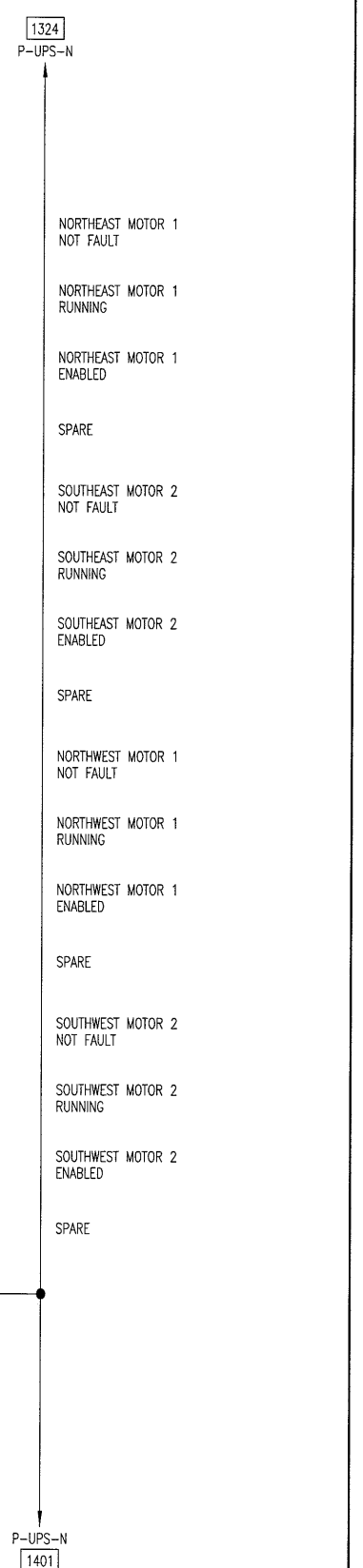
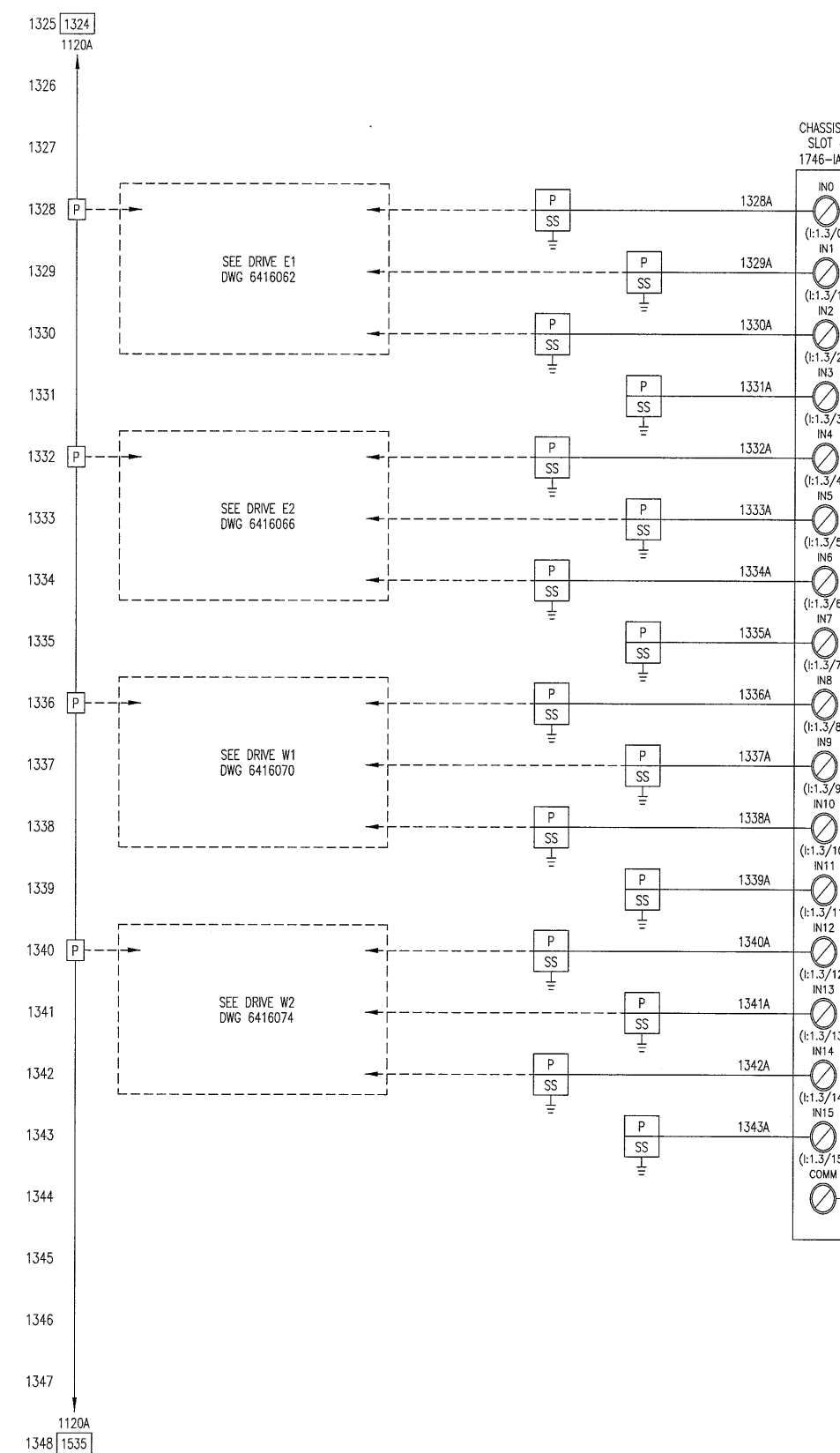
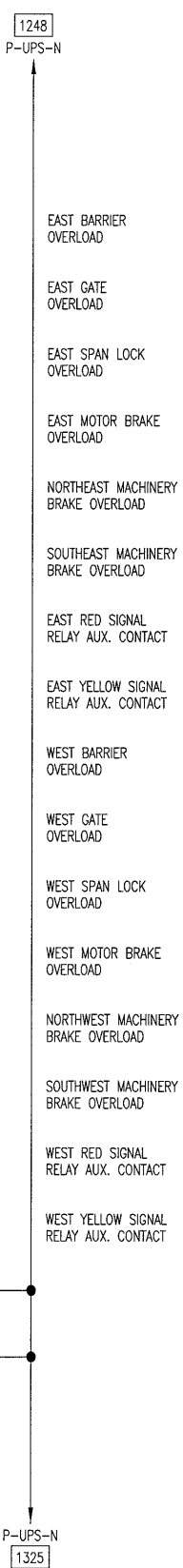
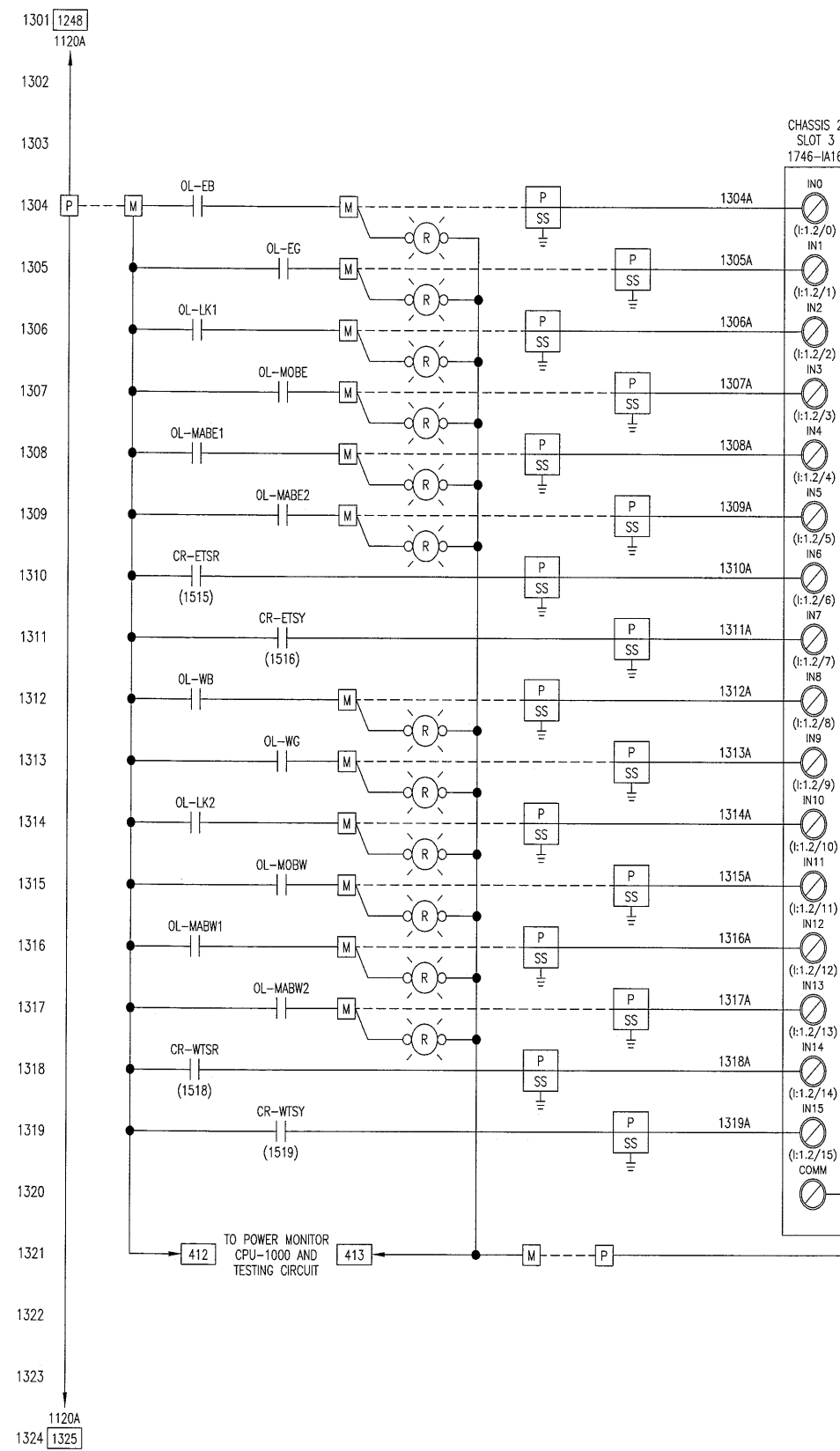
P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR TB IN PLC CABINET
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	E 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	W 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		

NOTES:

- CONTACTS IN 600A TRANSFER SWITCH.
- CONTACTS IN 100A TRANSFER SWITCH.

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		JOB No. 6416	
		APPROVED BY: YV	
CORPORATION 7461 SOUTH SAYRE AVE BEDFORD PARK, IL 60838		DESIGNED BY: YV	
		DRAWN BY: LVT	
CAPE FEAR BRIDGE PLC CHASSIS 2 SLOTS 1 & 2		CHECKED BY: YV	
		DATE: 8/11/06	
FOR: ATLANTIC ELECTRIC		SCALE: NONE	SIZE: D
		DRAWING NO. 6416012	



LEGEND:

P	TB IN PLC CABINET	D3	TB IN DRIVE 3 CABINET	F3	TB IN WEST PC3 CABINET	P	120V SURGE SUPPRESSOR
C	TB IN CONSOLE	D4	TB IN DRIVE 4 CABINET	F4	TB IN WEST PC4 CABINET	SS3	TB IN PLC CABINET
C1	TB IN EAST CC1 CABINET	M	TB IN MOTOR CONTROL CENTER	F6	TB IN WEST PC6 CABINET	E	120V SURGE SUPPRESSOR
C2	TB IN WEST CC2 CABINET	F1	TB IN EAST PC1 CABINET	F7	TB IN EAST FIELD CABINET	SS3	TB IN EAST I/O CABINET
D1	TB IN DRIVE 1 CABINET	F2	TB IN EAST PC2 CABINET	F8	TB IN WEST FIELD CABINET	W	120V SURGE SUPPRESSOR
D2	TB IN DRIVE 2 CABINET	F5	TB IN EAST PC5 CABINET			SS3	TB IN WEST I/O CABINET

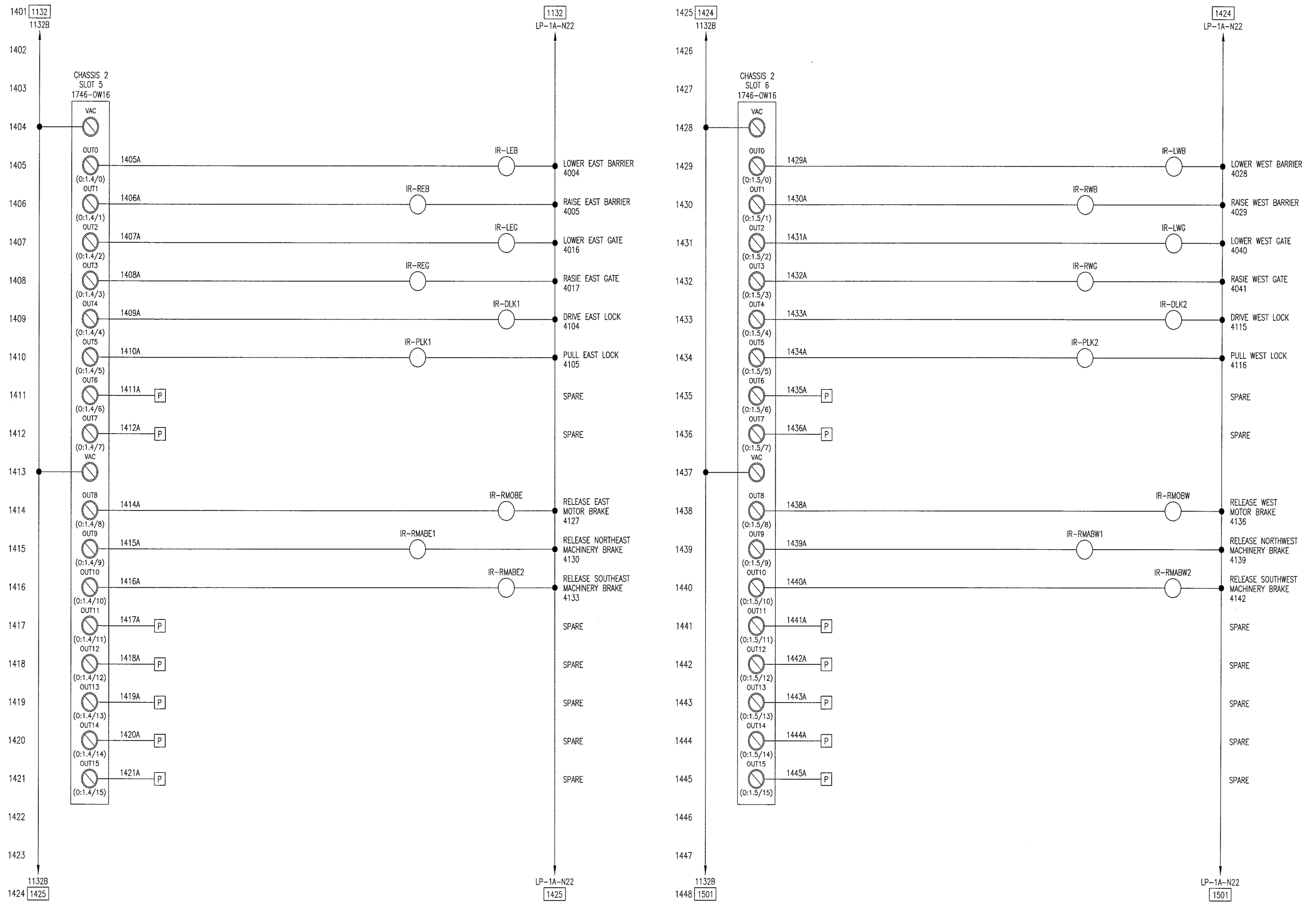
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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
 7401 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 PLC CHASSIS 2 SLOTS 3 & 4

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416013
 FOR: ATLANTIC ELECTRIC



LEGEND:

- | | | | |
|-----------------------------|--------------------------------|-------------------------------|------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |

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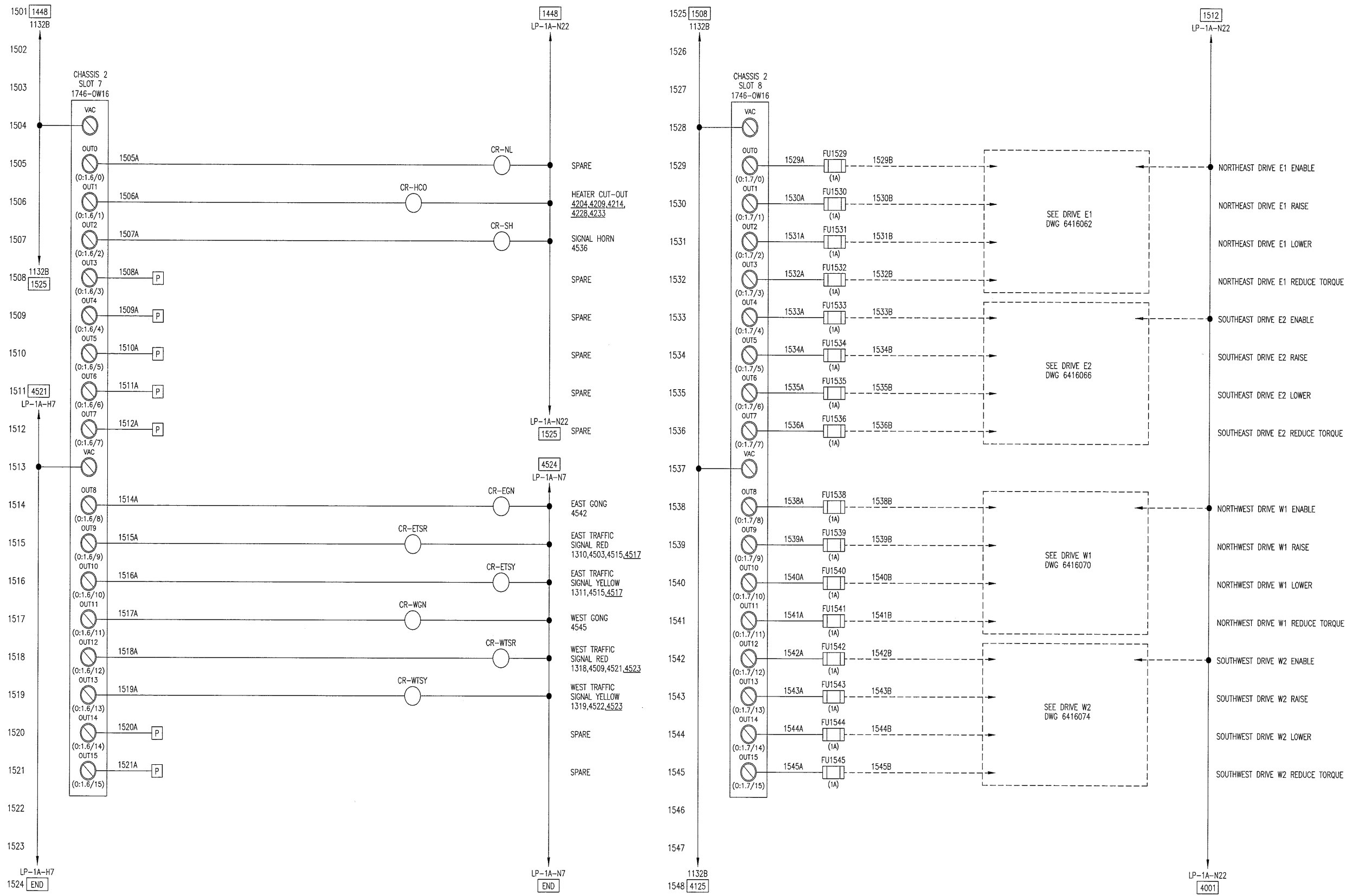
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	VY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
PLC CHASSIS 2 SLOTS 5 & 6

JOB No. 6416
APPROVED BY: VY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416014

FOR: ATLANTIC ELECTRIC



LEGEND:

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|-----------------------------|--------------------------------|-------------------------------|------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |

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PANATROL CORPORATION
 7451 SOUTHERN SAYRE AVE
 BEDFORD PARK, IL 60698

CAPE FEAR BRIDGE
 PLC CHASSIS 2 SLOTS 7 & 8

JOB No. 6416
 APPROVED BY: YV
 DESIGNED BY: YV
 DRAWN BY: LVT
 CHECKED BY: YV
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416015

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CHASSIS 2
SLOT 9
SPARE

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CHASSIS 2
SLOT 10
SPARE

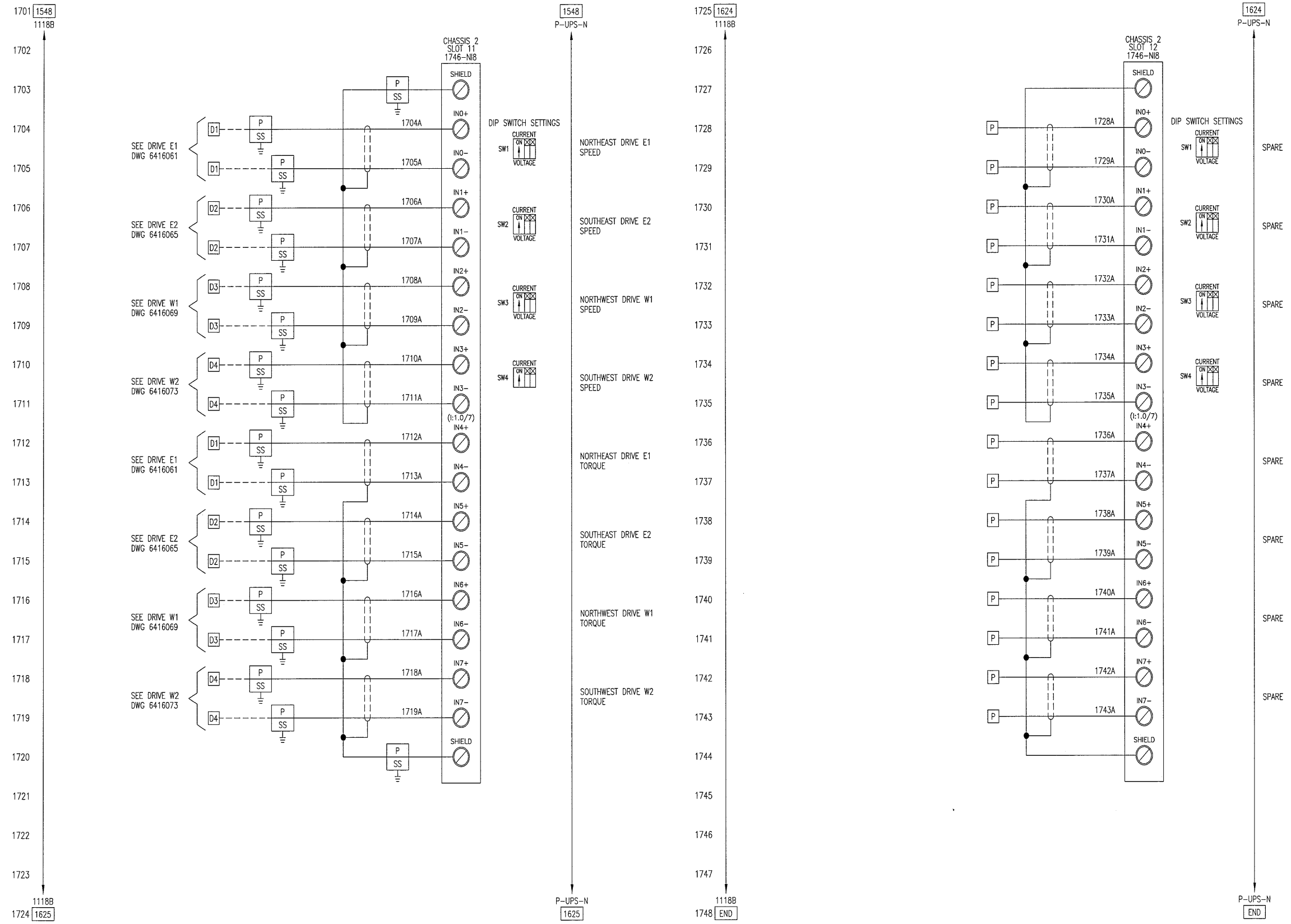
LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR TB IN PLC CABINET
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	SS3
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	E 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	SS3
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	W 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		SS3

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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

 CORPORATION 7451 SOUTH SAYERS AVE BEDFORD PARK, IL 60638		JOB No. 6416
		APPROVED BY: YY
CAPE FEAR BRIDGE PLC CHASSIS 2 SLOT 9 & 10		DESIGNED BY: YY
DATE: 8/11/06		DRAWN BY: LVT
SCALE: NONE SIZE: D		CHECKED BY: YY
DRAWING NO. 6416016		
FOR: ATLANTIC ELECTRIC		



LEGEND:

- | | | | |
|----------------------------------|-------------------------------------|------------------------------------|--|
| P TB IN PLC CABINET | D3 TB IN DRIVE 3 CABINET | F3 TB IN WEST PC3 CABINET | P 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| C TB IN CONSOLE | D4 TB IN DRIVE 4 CABINET | F4 TB IN WEST PC4 CABINET | E 120V SURGE SUPPRESSOR
TB IN EAST I/O CABINET |
| C1 TB IN EAST CC1 CABINET | M TB IN MOTOR CONTROL CENTER | F6 TB IN WEST PC6 CABINET | W 120V SURGE SUPPRESSOR
TB IN WEST I/O CABINET |
| C2 TB IN WEST CC2 CABINET | F1 TB IN EAST PC1 CABINET | F7 TB IN EAST FIELD CABINET | |
| D1 TB IN DRIVE 1 CABINET | F2 TB IN EAST PC2 CABINET | F8 TB IN WEST FIELD CABINET | |
| D2 TB IN DRIVE 2 CABINET | F5 TB IN EAST PC5 CABINET | | |

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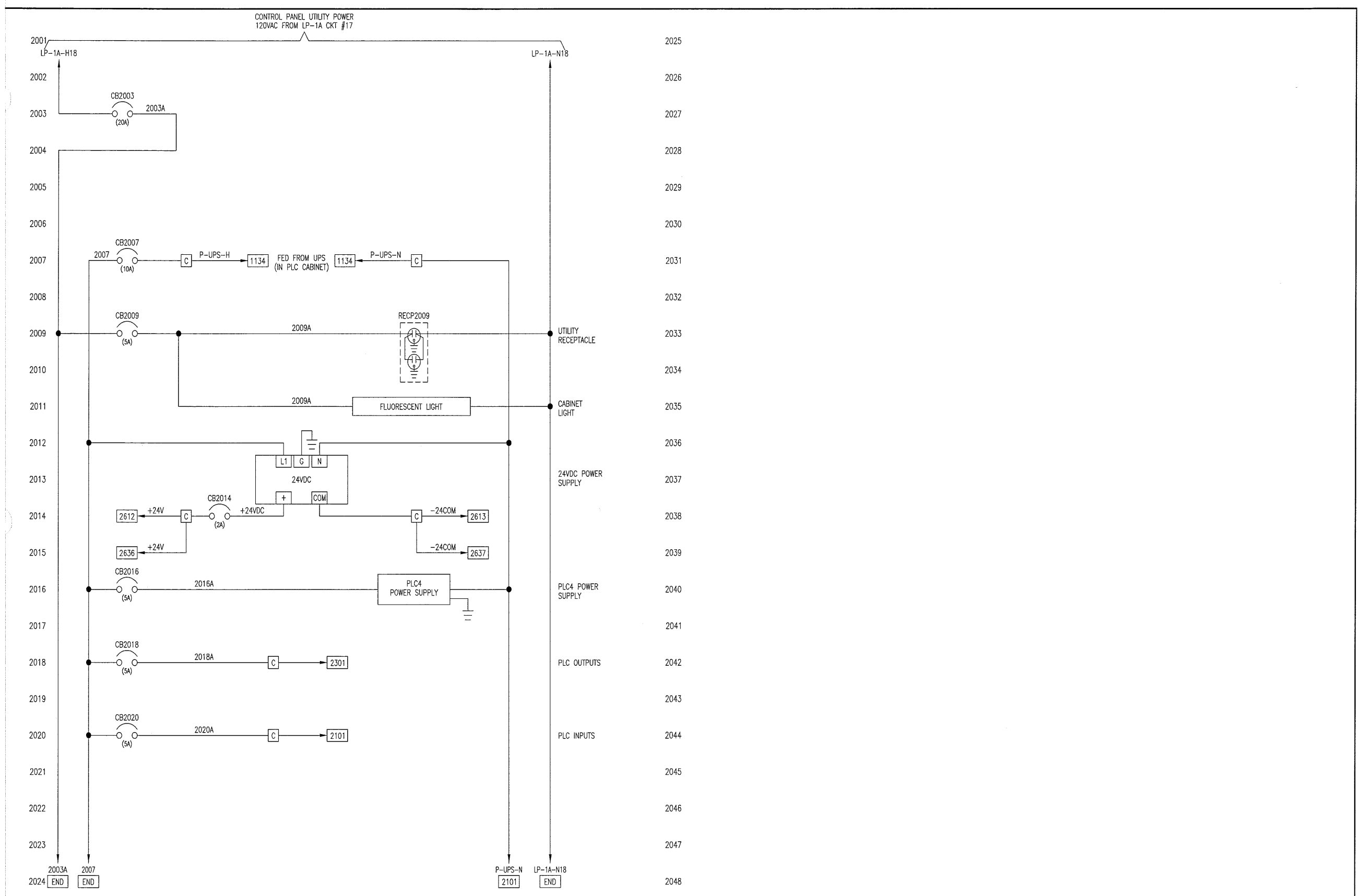
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	VY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 PLC CHASSIS 2 SLOTS 11 & 12

FOR: ATLANTIC ELECTRIC

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: NONE
 SIZE: D
 DRAWING NO. 6416017




LEGEND:

[P] TB IN PLC CABINET	[D3] TB IN DRIVE 3 CABINET	[F3] TB IN WEST PC3 CABINET	[P] 120V SURGE SUPPRESSOR TB IN PLC CABINET
[C] TB IN CONSOLE	[D4] TB IN DRIVE 4 CABINET	[F4] TB IN WEST PC4 CABINET	[E] 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
[C1] TB IN EAST CC1 CABINET	[M] TB IN MOTOR CONTROL CENTER	[F6] TB IN WEST PC6 CABINET	[W] 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
[C2] TB IN WEST CC2 CABINET	[F1] TB IN EAST PC1 CABINET	[F7] TB IN EAST FIELD CABINET	
[D1] TB IN DRIVE 1 CABINET	[F2] TB IN EAST PC2 CABINET	[F8] TB IN WEST FIELD CABINET	
[D2] TB IN DRIVE 2 CABINET	[F5] TB IN EAST PC5 CABINET		

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NO.		DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:
C	10/12/07		REVISED AS INSTALLED	LVT	YV	
B	1/18/07		ISSUED FOR CONSTRUCTION	LVT	YV	
A	8/14/06		ISSUED FOR APPROVAL	LVT	YV	



PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
CONTROL CONSOLE POWER
SCHEMATIC DIAGRAM

JOB No. 6416

APPROVED BY: YV

DESIGNED BY: YV

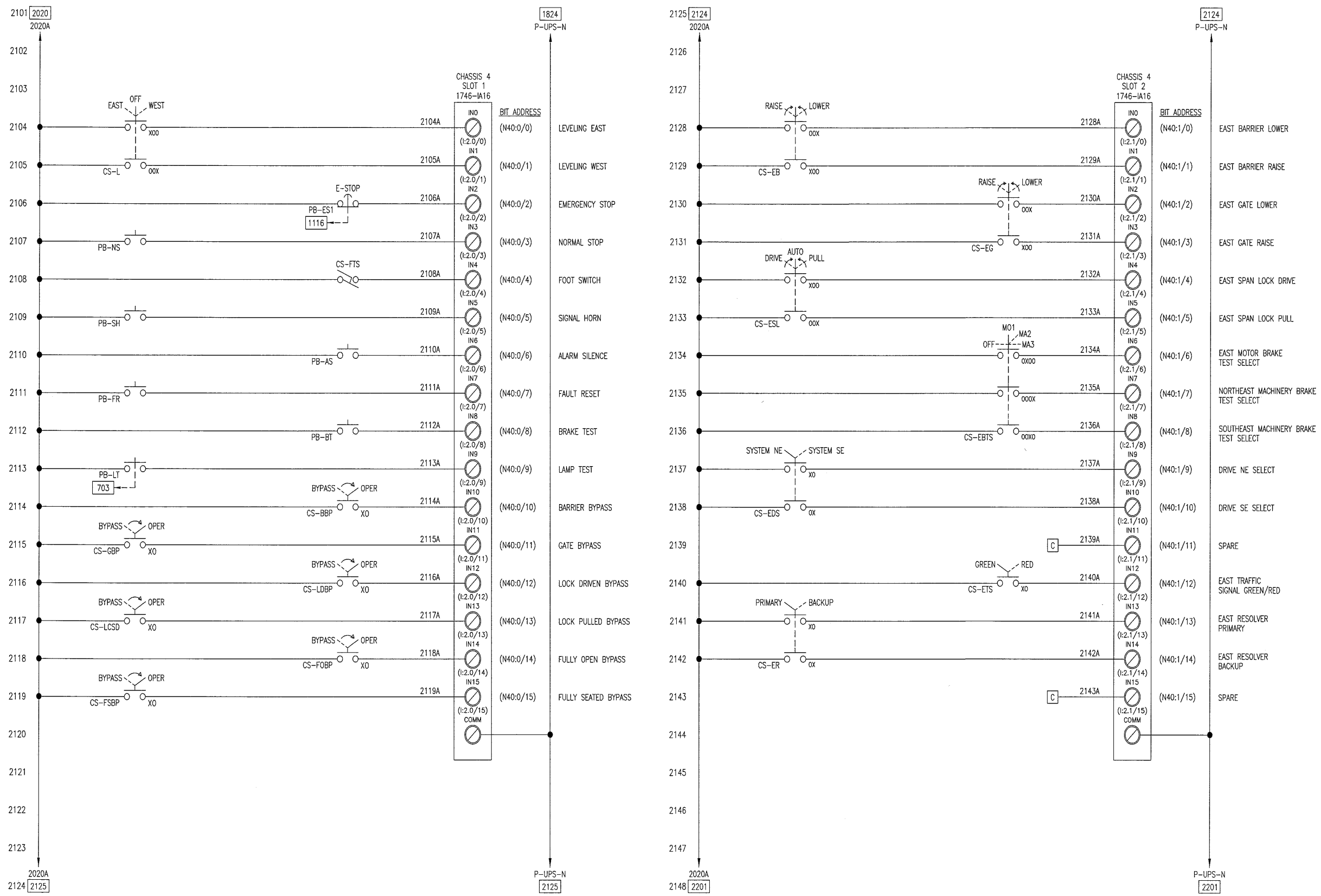
DRAWN BY: LVT

CHECKED BY: YV

DATE: 8/11/06

SCALE: NONE SIZE: D

DRAWING NO. 6416020



LEGEND:

[P] TB IN PLC CABINET	[D3] TB IN DRIVE 3 CABINET	[F3] TB IN WEST PC3 CABINET	[P] 120V SURGE SUPPRESSOR TB IN PLC CABINET
[C] TB IN CONSOLE	[D4] TB IN DRIVE 4 CABINET	[F4] TB IN WEST PC4 CABINET	[SS3] 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
[C1] TB IN EAST CC1 CABINET	[M] TB IN MOTOR CONTROL CENTER	[F6] TB IN WEST PC6 CABINET	[W] 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
[C2] TB IN WEST CC2 CABINET	[F1] TB IN EAST PC1 CABINET	[F7] TB IN EAST FIELD CABINET	
[D1] TB IN DRIVE 1 CABINET	[F2] TB IN EAST PC2 CABINET	[F8] TB IN WEST FIELD CABINET	
[D2] TB IN DRIVE 2 CABINET	[F5] TB IN EAST PC5 CABINET		

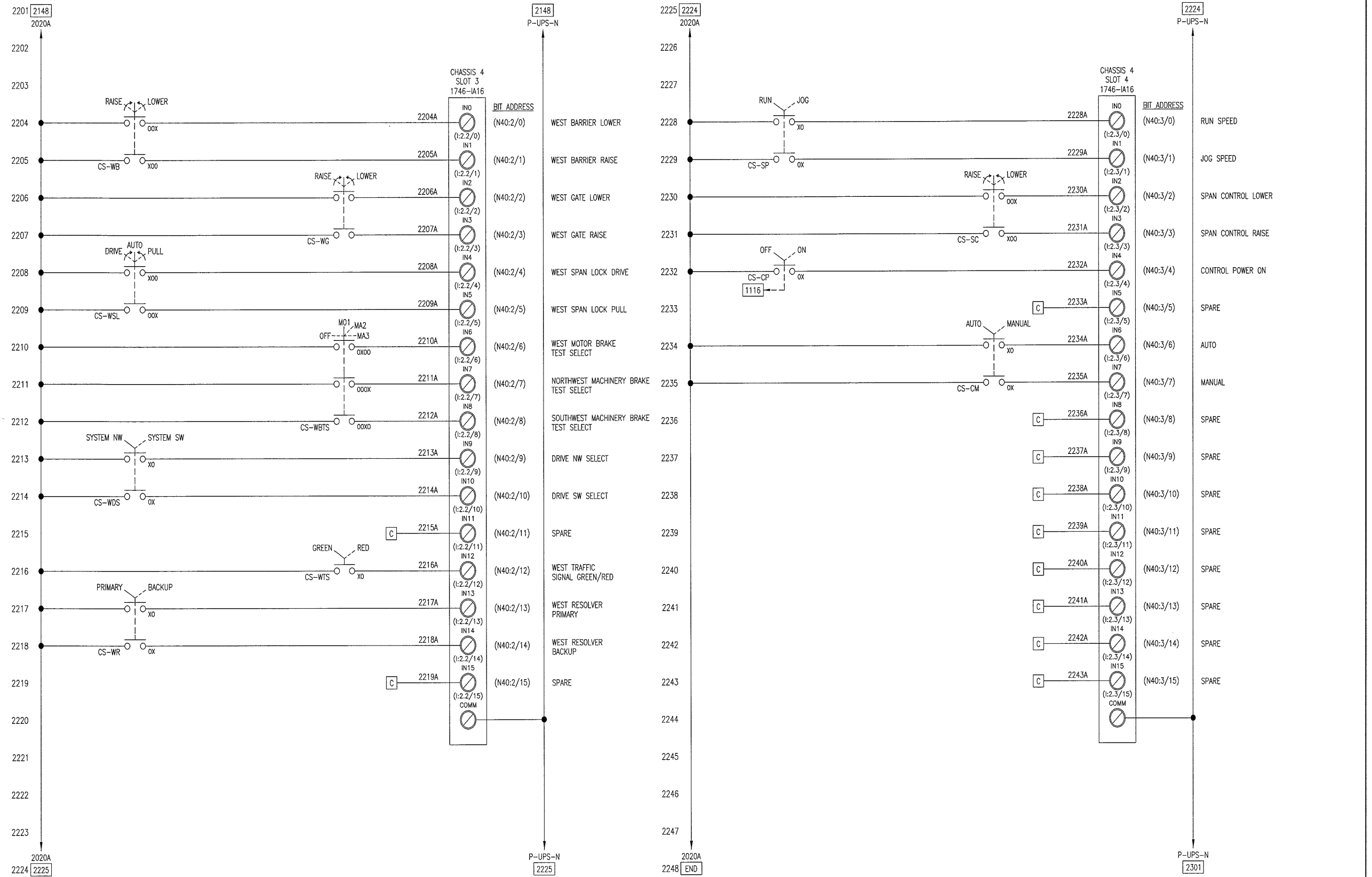
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NO.		DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:
C	10/12/07		REVISED AS INSTALLED	LVT	YV	ATLANTIC ELECTRIC
B	1/18/07		ISSUED FOR CONSTRUCTION	LVT	YV	
A	8/14/06		ISSUED FOR APPROVAL	LVT	YV	

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
CONTROL CONSOLE INPUTS
SCHEMATIC DIAGRAM

JOB No.	6416
APPROVED BY:	YV
DESIGNED BY:	YV
DRAWN BY:	LVT
CHECKED BY:	YV
DATE:	8/11/08
SCALE:	NONE
SIZE:	D
DRAWING NO.	6416021



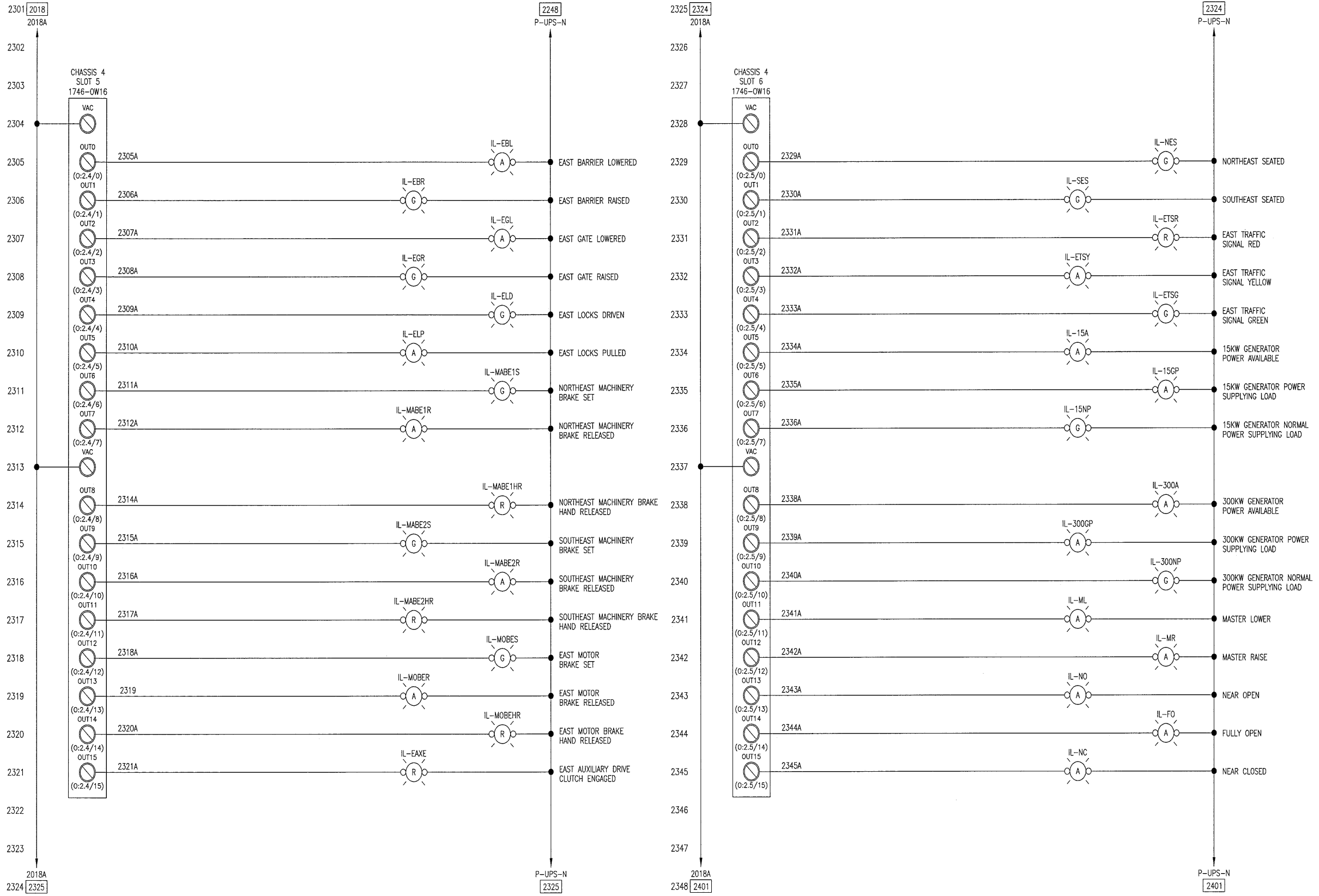
LEGEND:

- | | | | |
|-----------------------------|--------------------------------|-------------------------------|---|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR
SS3 TB IN PLC CABINET |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [E] 120V SURGE SUPPRESSOR
SS3 TB IN EAST I/O CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [W] 120V SURGE SUPPRESSOR
SS3 TB IN WEST I/O CABINET |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | |

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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

		JOB No.	6416
		APPROVED BY:	YY
CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60838		DESIGNED BY:	YY
		DRAWN BY:	LVT
CAPE FEAR BRIDGE CONTROL CONSOLE INPUTS SCHEMATIC DIAGRAM		CHECKED BY:	YY
		DATE:	8/11/06
FOR: ATLANTIC ELECTRIC		SCALE:	NONE
		SIZE:	D
DRAWING NO.		6416022	



LEGEND:

- | | | |
|-----------------------------|--------------------------------|-------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | |

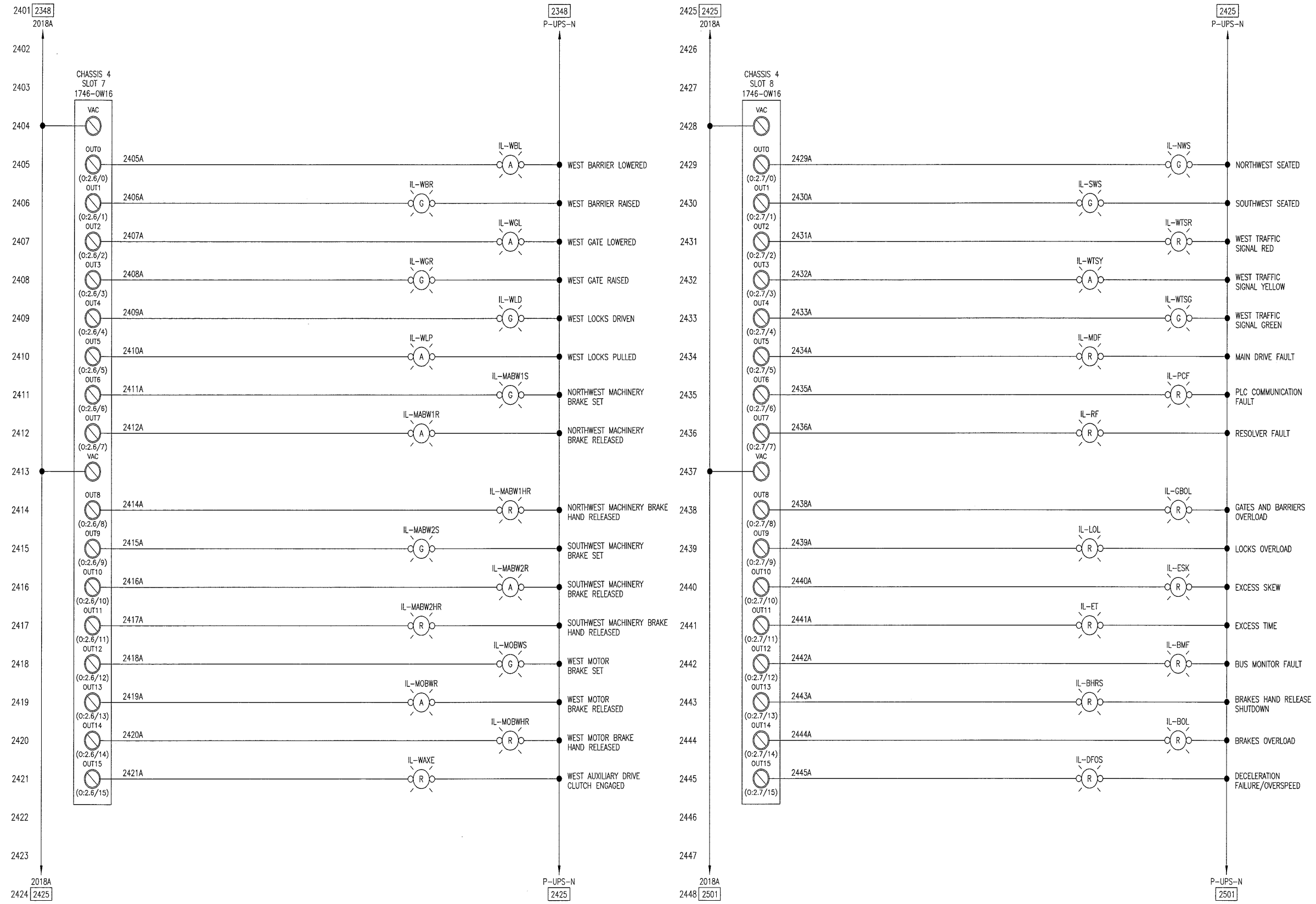
- | |
|---|
| [P] 120V SURGE SUPPRESSOR
SS3 TB IN PLC CABINET |
| [E] 120V SURGE SUPPRESSOR
SS3 TB IN EAST I/O CABINET |
| [W] 120V SURGE SUPPRESSOR
SS3 TB IN WEST I/O CABINET |

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C	10/12/07	REVISED AS INSTALLED	LVT	YY
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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

JOB No. 6416	
APPROVED BY: YY	
DESIGNED BY: YY	
DRAWN BY: LVT	
CHECKED BY: YY	
DATE: 8/11/06	
SCALE: NONE	SIZE: D
DRAWING NO. 6416023	
FOR: ATLANTIC ELECTRIC	



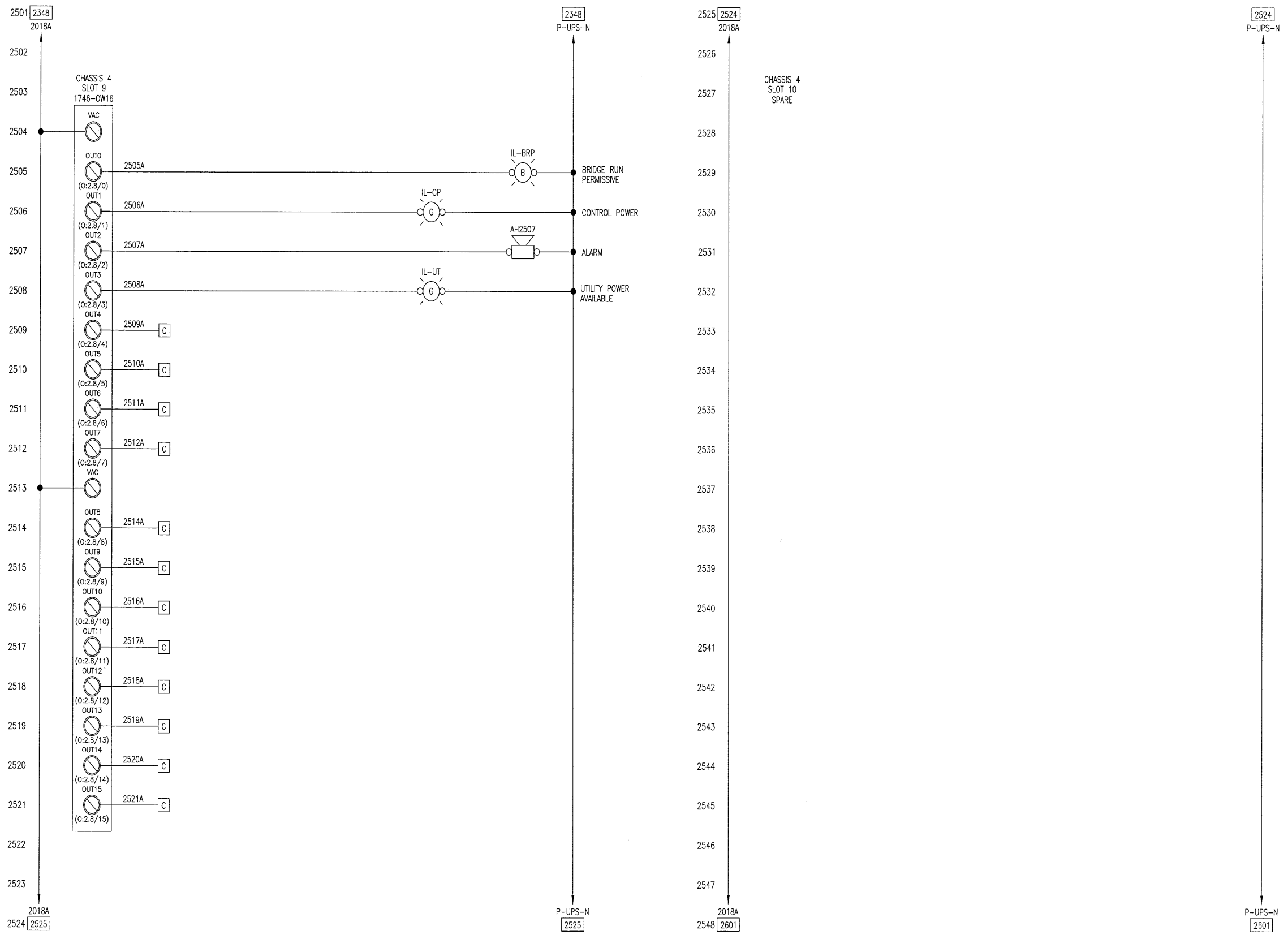
LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	SS3 TB IN PLC CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	E 120V SURGE SUPPRESSOR
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	SS3 TB IN EAST I/O CABINET
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	W 120V SURGE SUPPRESSOR
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		SS3 TB IN WEST I/O CABINET

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C	10/12/07		REVISED AS INSTALLED	LVT	YY
B	1/18/07		ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06		ISSUED FOR APPROVAL	LVT	YY

		JOB No. 6416 APPROVED BY: VY DESIGNED BY: VY DRAWN BY: LVT CHECKED BY: VY DATE: 8/11/06 SCALE: NONE SIZE: D DRAWING NO. 6416024 FOR: ATLANTIC ELECTRIC
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LEGEND:

- | | | | |
|-----------------------------|--------------------------------|-------------------------------|---|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [E] 120V SURGE SUPPRESSOR
TB IN EAST I/O CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [W] 120V SURGE SUPPRESSOR
TB IN WEST I/O CABINET |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | |

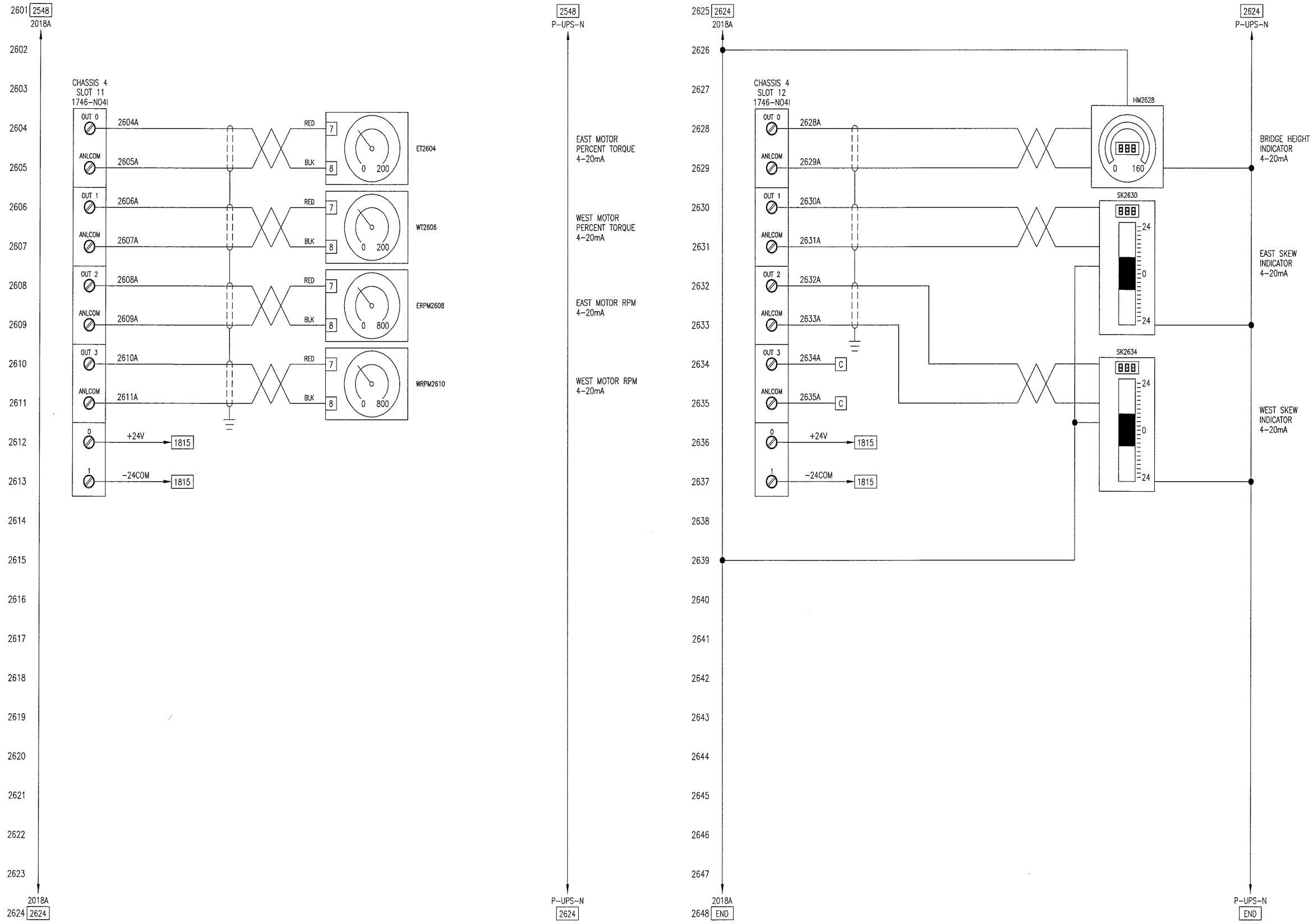
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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 CONTROL CONSOLE OUTPUTS
 SCHEMATIC DIAGRAM

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416025
 FOR: ATLANTIC ELECTRIC



LEGEND:

- | | | | |
|-----------------------------|--------------------------------|-------------------------------|---|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [E] 120V SURGE SUPPRESSOR
TB IN EAST I/O CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [W] 120V SURGE SUPPRESSOR
TB IN WEST I/O CABINET |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | |

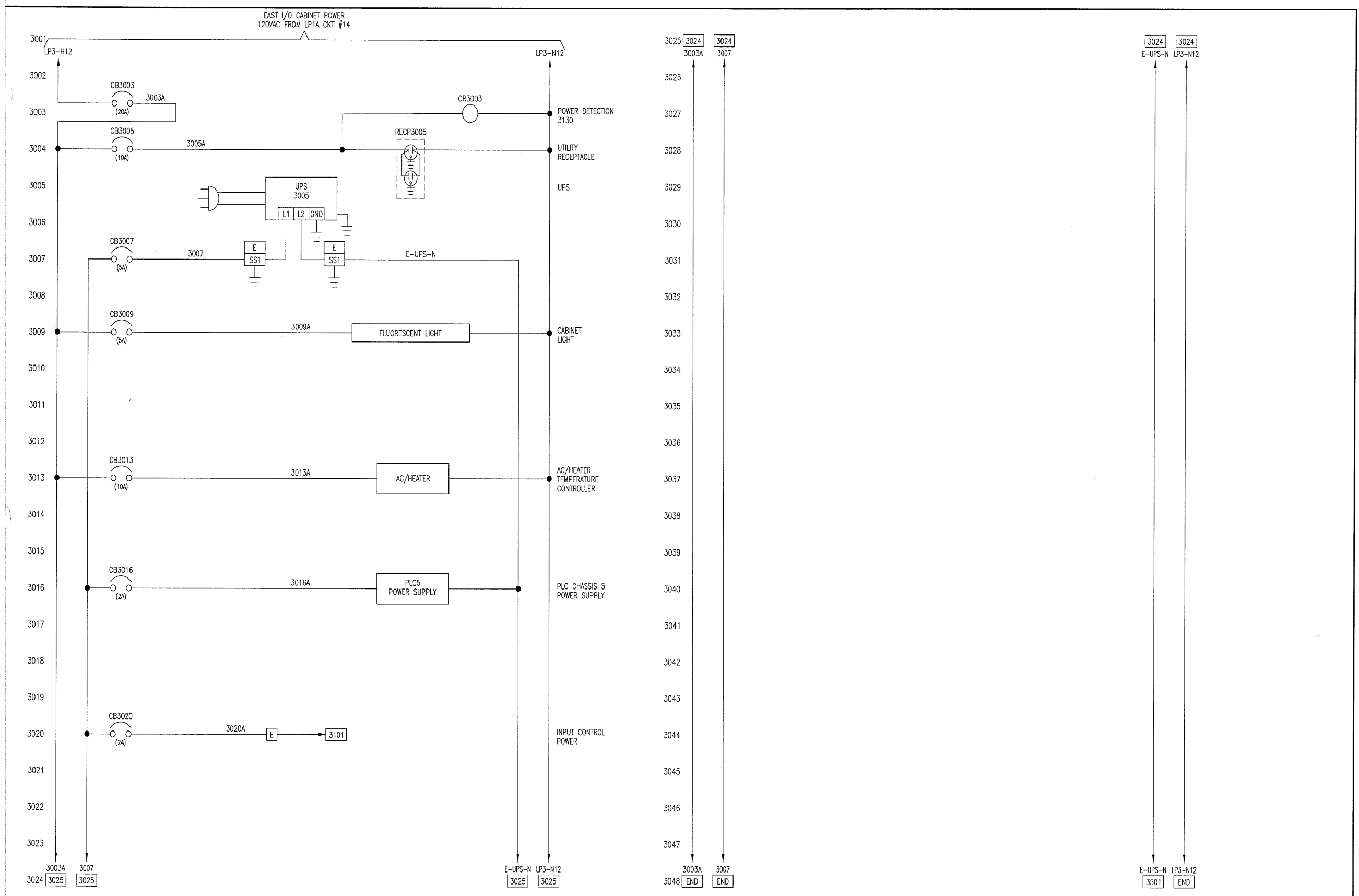
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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 CONTROL CONSOLE OUTPUTS
 SCHEMATIC DIAGRAM

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416026
 FOR: ATLANTIC ELECTRIC

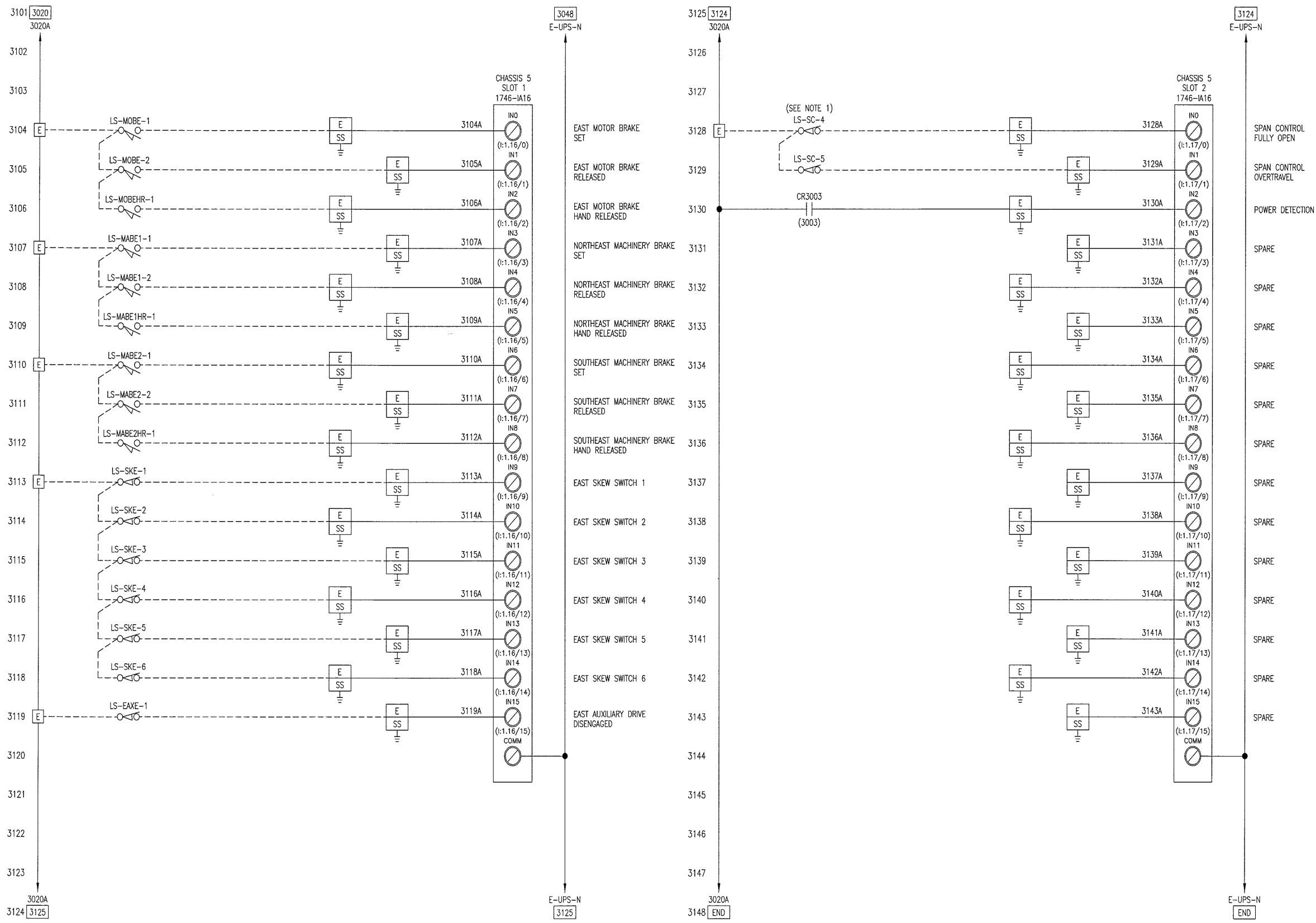


LEGEND:

- | | | | |
|----------------------------------|-------------------------------------|------------------------------------|--|
| P TB IN PLC CABINET | D3 TB IN DRIVE 3 CABINET | F3 TB IN WEST PC3 CABINET | P 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| C TB IN CONSOLE | D4 TB IN DRIVE 4 CABINET | F4 TB IN WEST PC4 CABINET | SS3 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| C1 TB IN EAST CC1 CABINET | M TB IN MOTOR CONTROL CENTER | F6 TB IN WEST PC6 CABINET | E 120V SURGE SUPPRESSOR
TB IN EAST I/O CABINET |
| C2 TB IN WEST CC2 CABINET | F1 TB IN EAST PC1 CABINET | F7 TB IN EAST FIELD CABINET | W 120V SURGE SUPPRESSOR
TB IN WEST I/O CABINET |
| D1 TB IN DRIVE 1 CABINET | F2 TB IN EAST PC2 CABINET | F8 TB IN WEST FIELD CABINET | |
| D2 TB IN DRIVE 2 CABINET | F5 TB IN EAST PC5 CABINET | | |

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		JOB No. 6416	
		APPROVED BY: VY	
CORPORATION 7481 SOUTH SAYERS AVE BEDFORD PARK, IL 60688		DESIGNED BY: VY	
		DRAWN BY: LVT	
CAPE FEAR BRIDGE EAST I/O CABINET POWER SCHEMATIC DIAGRAM		CHECKED BY: VY	
		DATE: 8/11/06	
NO. DATE REVISIONS DRAWN BY CHECKED BY FOR: ATLANTIC ELECTRIC		SCALE: NONE SIZE: D	
		DRAWING NO. 6416030	



LEGEND:

- | | | | |
|-----------------------------|--------------------------------|-------------------------------|------------------------------|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |

NOTES:
1. HARDWIRE SET OF CONTACT.
(SEE DWG 6416045)

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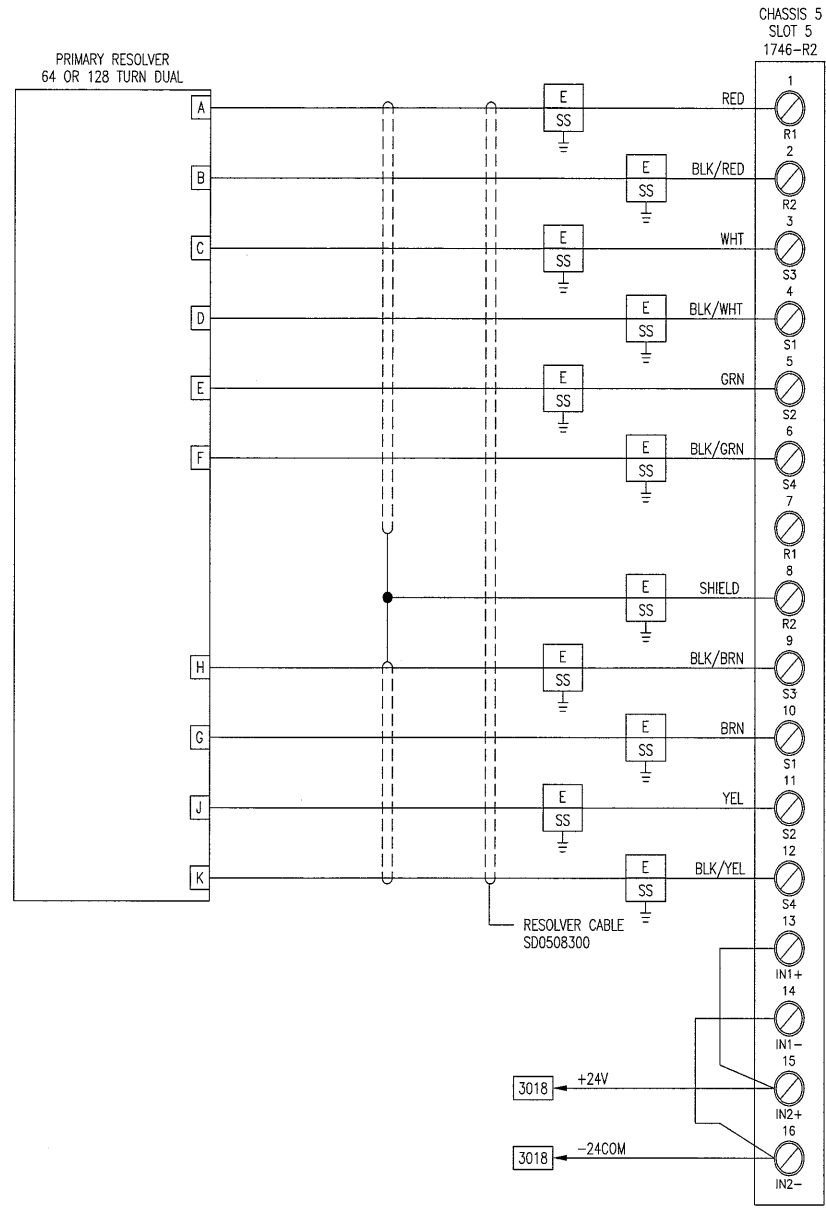
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

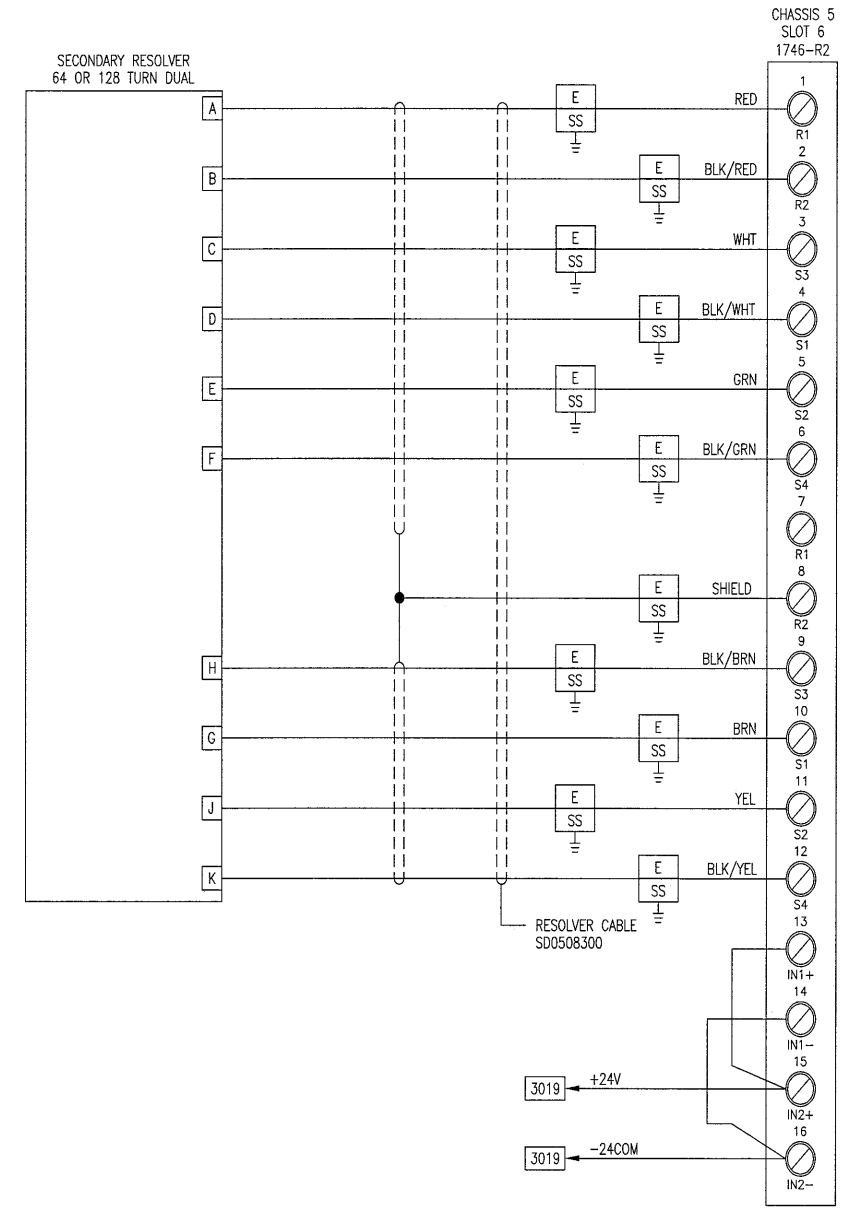
CAPE FEAR BRIDGE
EAST I/O CABINET INPUTS
SCHEMATIC DIAGRAM

JOB No. 6416
APPROVED BY: YY
DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416031
FOR: ATLANTIC ELECTRIC

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LEGEND:

P TB IN PLC CABINET	D3 TB IN DRIVE 3 CABINET	F3 TB IN WEST PC3 CABINET	P 120V SURGE SUPPRESSOR TB IN PLC CABINET
C TB IN CONSOLE	D4 TB IN DRIVE 4 CABINET	F4 TB IN WEST PC4 CABINET	SS3 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
C1 TB IN EAST CC1 CABINET	M TB IN MOTOR CONTROL CENTER	F6 TB IN WEST PC6 CABINET	W 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
C2 TB IN WEST CC2 CABINET	F1 TB IN EAST PC1 CABINET	F7 TB IN EAST FIELD CABINET	
D1 TB IN DRIVE 1 CABINET	F2 TB IN EAST PC2 CABINET	F8 TB IN WEST FIELD CABINET	
D2 TB IN DRIVE 2 CABINET	F5 TB IN EAST PC5 CABINET		

NOTE:

1. TO REVERSE DIRECTION OF ROTATION INTERCHANGE YELLOW & BLACK/YELLOW AND WHITE AND BLACK/WHITE.

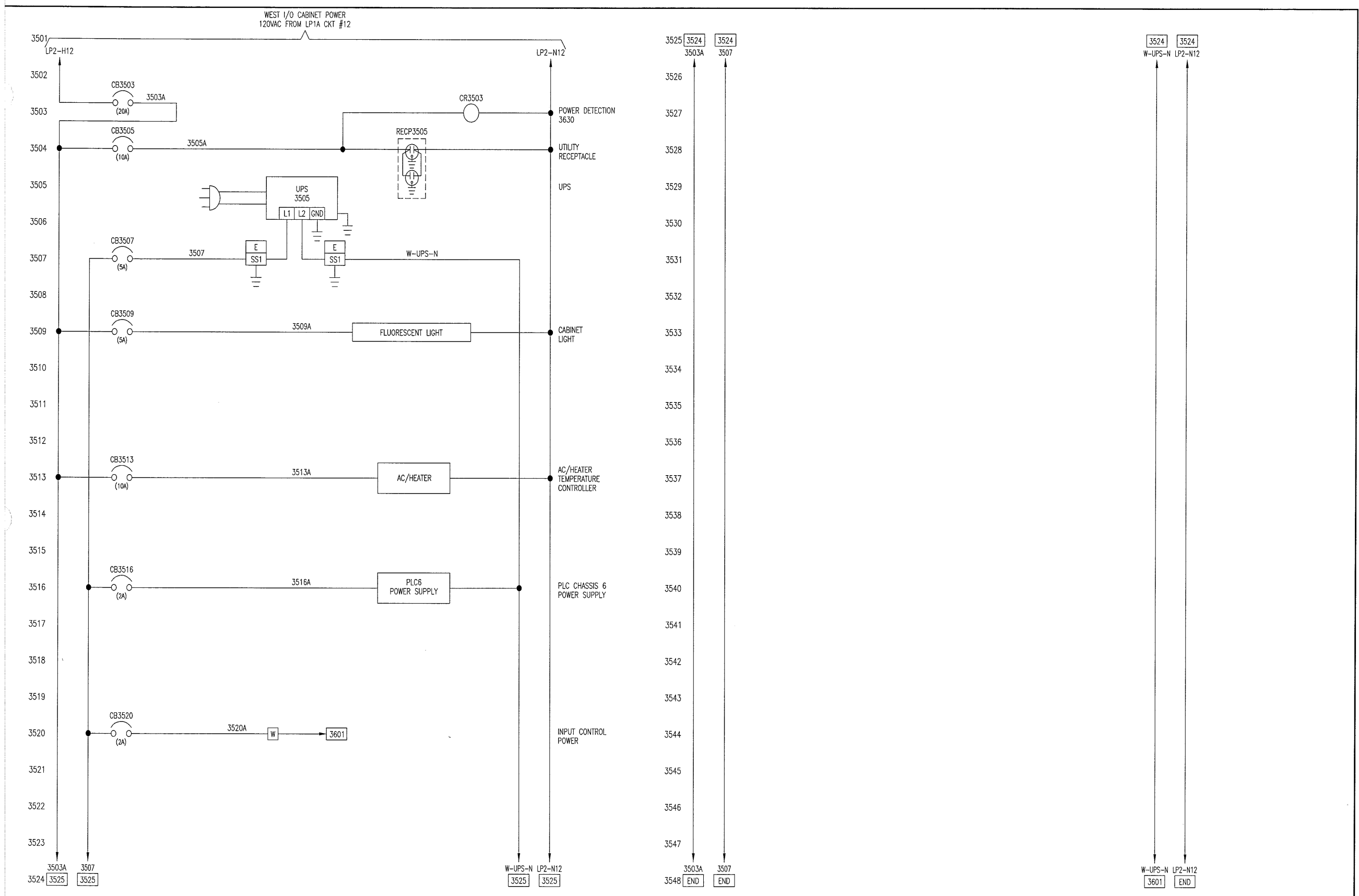
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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

PANATROL CORPORATION
7481 SOUTH SKYWAY AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
EAST I/O CABINET INPUTS
SCHEMATIC DIAGRAM

JOB No. 6416
APPROVED BY: VY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416033
FOR: ATLANTIC ELECTRIC

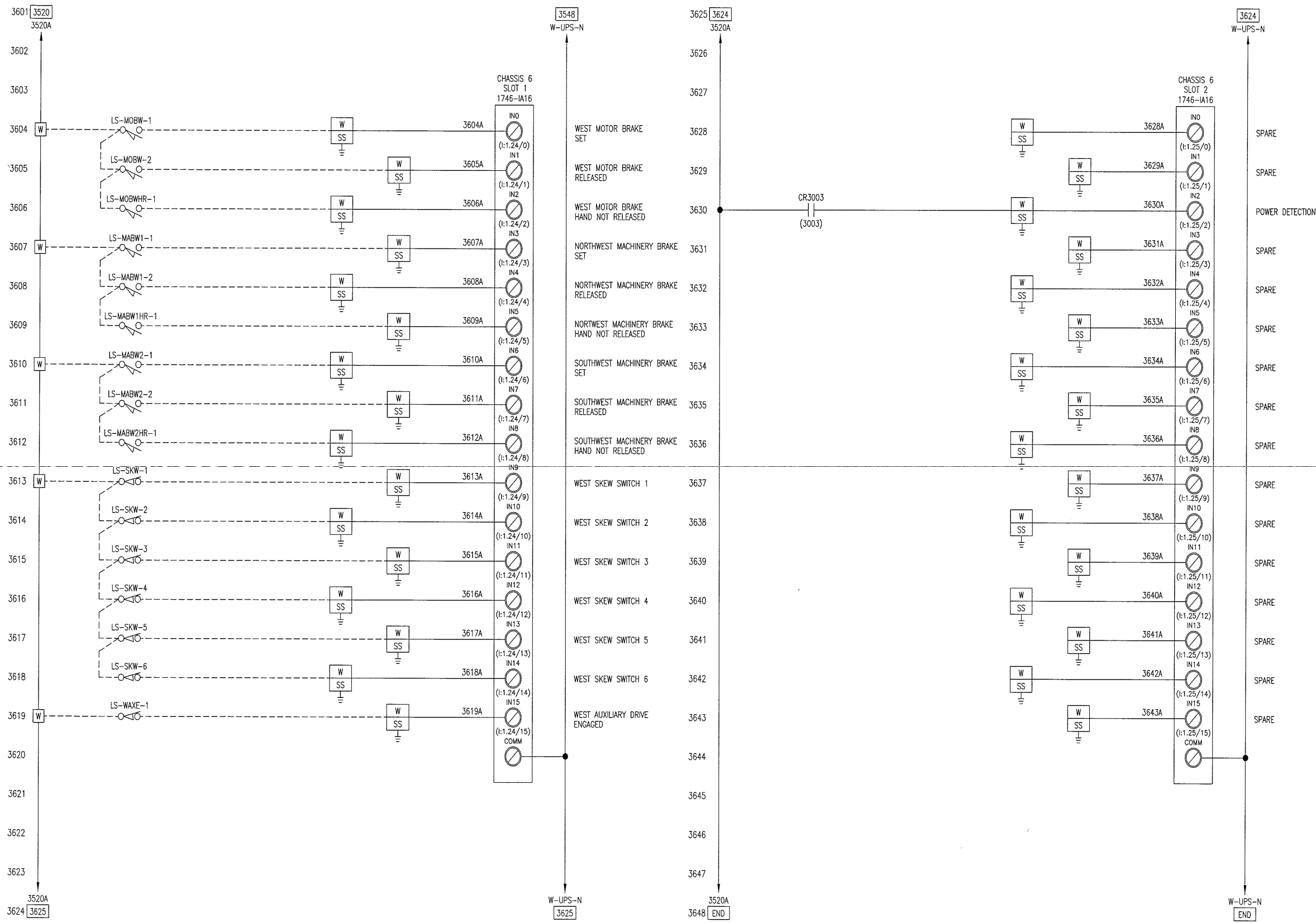


LEGEND:

[P] TB IN PLC CABINET	[D3] TB IN DRIVE 3 CABINET	[F3] TB IN WEST PC3 CABINET	[P] 120V SURGE SUPPRESSOR
[C] TB IN CONSOLE	[D4] TB IN DRIVE 4 CABINET	[F4] TB IN WEST PC4 CABINET	[SS3] TB IN PLC CABINET
[C1] TB IN EAST CC1 CABINET	[M] TB IN MOTOR CONTROL CENTER	[F6] TB IN WEST PC6 CABINET	[E] 120V SURGE SUPPRESSOR
[C2] TB IN WEST CC2 CABINET	[F1] TB IN EAST PC1 CABINET	[F7] TB IN EAST FIELD CABINET	[SS3] TB IN EAST I/O CABINET
[D1] TB IN DRIVE 1 CABINET	[F2] TB IN EAST PC2 CABINET	[F8] TB IN WEST FIELD CABINET	[W] 120V SURGE SUPPRESSOR
[D2] TB IN DRIVE 2 CABINET	[F5] TB IN EAST PC5 CABINET		[SS3] TB IN WEST I/O CABINET

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NO.		DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:
C	10/12/07		REVISED AS INSTALLED	LVT	YV	 CORPORATION 7451 SOUTH SAYRE AVE BEDFORD PARK, IL 60638 CAPE FEAR BRIDGE WEST I/O CABINET POWER SCHEMATIC DIAGRAM
B	1/18/07		ISSUED FOR CONSTRUCTION	LVT	YV	
A	8/14/06		ISSUED FOR APPROVAL	LVT	YV	
						JOB No. 6416 APPROVED BY: YV DESIGNED BY: YV DRAWN BY: LVT CHECKED BY: YV DATE: 8/11/06 SCALE: NONE SIZE: D DRAWING NO. 6416035 FOR: ATLANTIC ELECTRIC



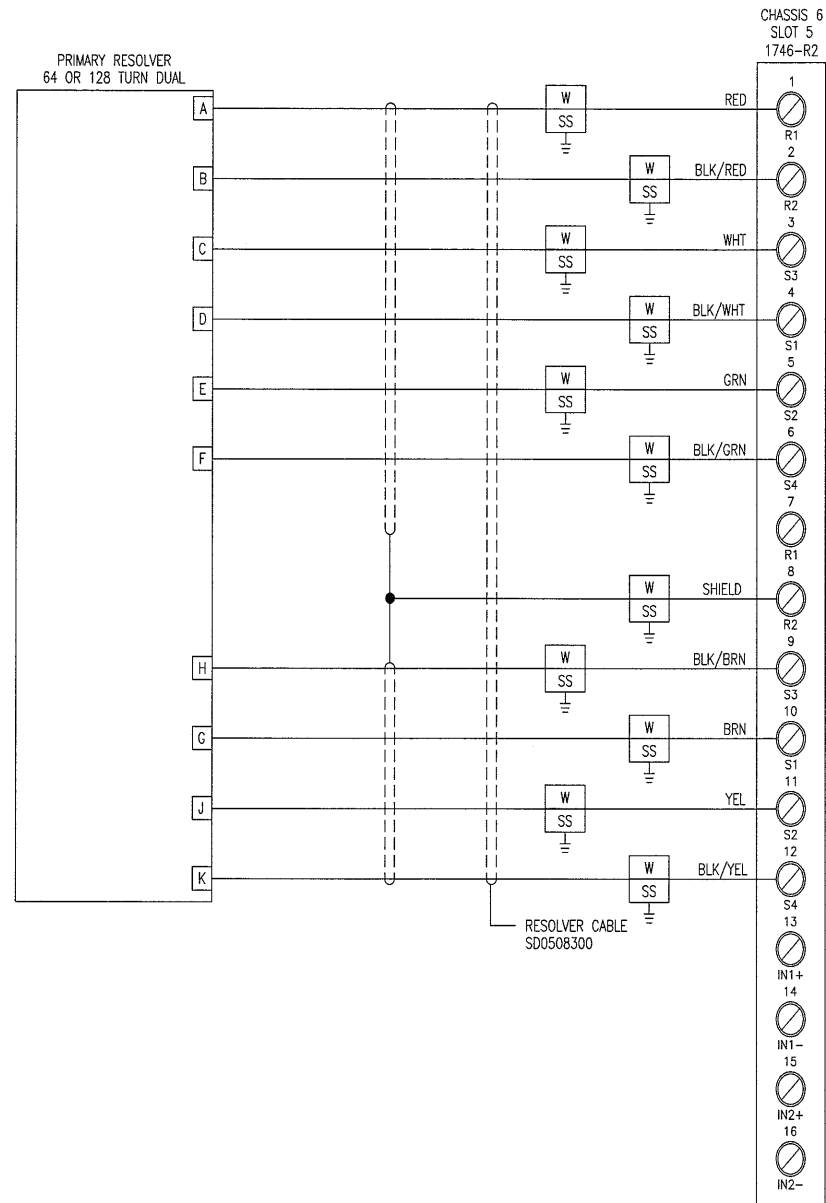
LEGEND:

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|-----------------------------|--------------------------------|-------------------------------|---|
| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [E] 120V SURGE SUPPRESSOR
TB IN EAST I/O CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [W] 120V SURGE SUPPRESSOR
TB IN WEST I/O CABINET |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | |

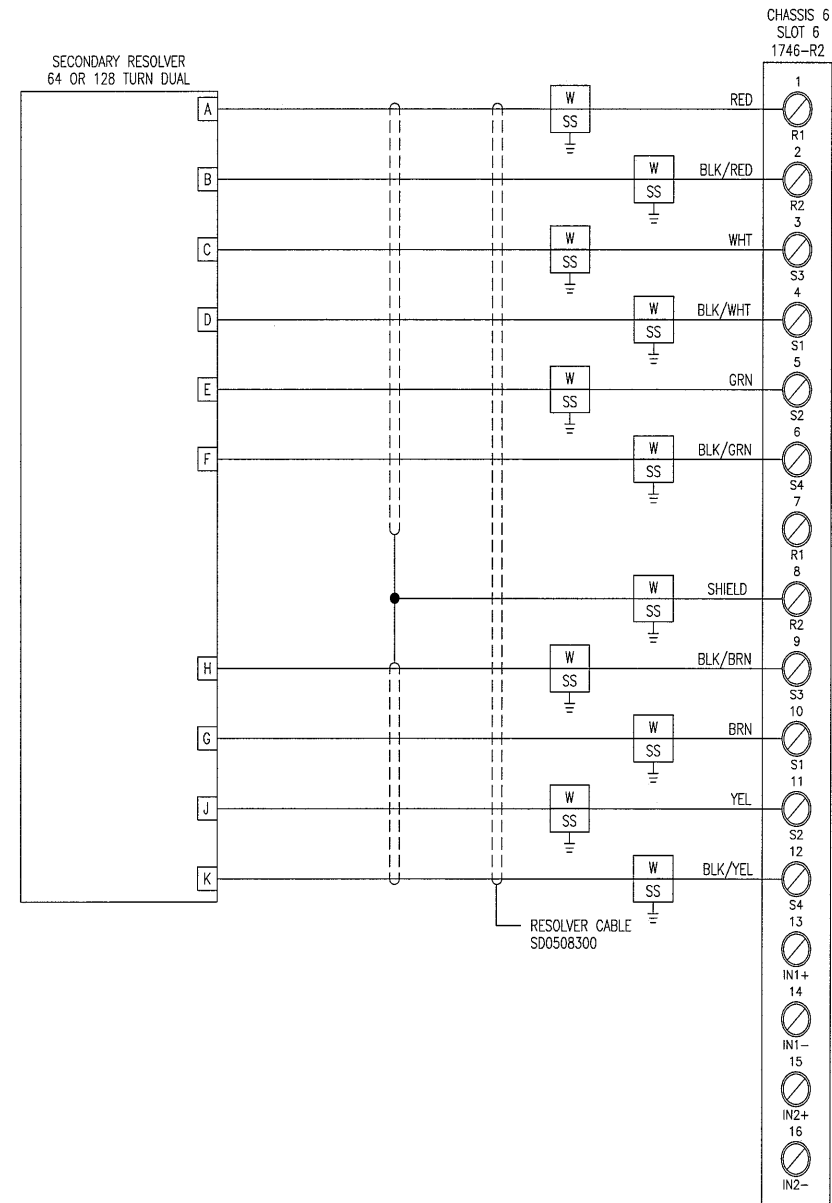
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APPROVED BY: YV		DESIGNED BY: YV	
DRAWN BY: LVT		CHECKED BY: YV	
DATE: 8/11/06		SCALE: NONE SIZE: D	
DRAWING NO. 6416036		FOR: ATLANTIC ELECTRIC	

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LEGEND:

P	TB IN PLC CABINET	D3	TB IN DRIVE 3 CABINET	F3	TB IN WEST PC3 CABINET	P	120V SURGE SUPPRESSOR
C	TB IN CONSOLE	D4	TB IN DRIVE 4 CABINET	F4	TB IN WEST PC4 CABINET	SS3	TB IN PLC CABINET
C1	TB IN EAST CC1 CABINET	M	TB IN MOTOR CONTROL CENTER	F6	TB IN WEST PC6 CABINET	E	120V SURGE SUPPRESSOR
C2	TB IN WEST CC2 CABINET	F1	TB IN EAST PC1 CABINET	F7	TB IN EAST FIELD CABINET	SS3	TB IN EAST I/O CABINET
D1	TB IN DRIVE 1 CABINET	F2	TB IN EAST PC2 CABINET	F8	TB IN WEST FIELD CABINET	W	120V SURGE SUPPRESSOR
D2	TB IN DRIVE 2 CABINET	F5	TB IN EAST PC5 CABINET			SS3	TB IN WEST I/O CABINET

NOTE:

1. TO REVERSE DIRECTION OF ROTATION INTERCHANGE YELLOW & BLACK/YELLOW AND WHITE AND BLACK/WHITE.

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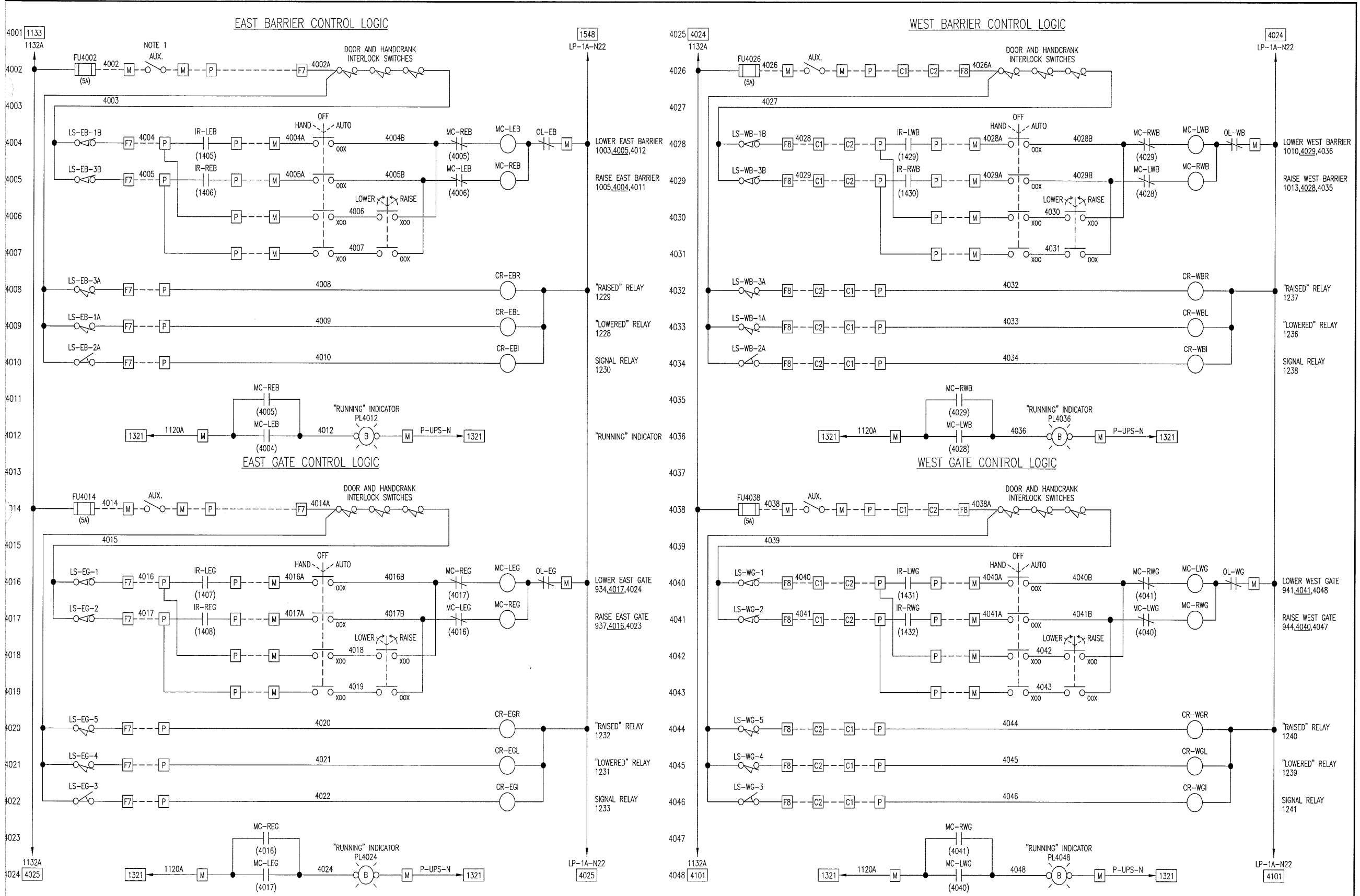
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
WEST I/O CABINET INPUTS
SCHEMATIC DIAGRAM

FOR: ATLANTIC ELECTRIC

JOB No.	6416
APPROVED BY:	YY
DESIGNED BY:	YY
DRAWN BY:	LVT
CHECKED BY:	YY
DATE:	8/11/06
SCALE:	NONE
SIZE:	D
DRAWING NO.	6416038



- LEGEND:**
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|------|------------------------|------|----------------------------|------|--------------------------|-------|---|
| [P] | TB IN PLC CABINET | [D3] | TB IN DRIVE 3 CABINET | [F3] | TB IN WEST PC3 CABINET | [SS3] | 120V SURGE SUPPRESSOR
TB IN PLC CABINET |
| [C] | TB IN CONSOLE | [D4] | TB IN DRIVE 4 CABINET | [F4] | TB IN WEST PC4 CABINET | [E] | 120V SURGE SUPPRESSOR
TB IN EAST I/O CABINET |
| [C1] | TB IN EAST CC1 CABINET | [M] | TB IN MOTOR CONTROL CENTER | [F6] | TB IN WEST PC6 CABINET | [W] | 120V SURGE SUPPRESSOR
TB IN WEST I/O CABINET |
| [C2] | TB IN WEST CC2 CABINET | [F1] | TB IN EAST PC1 CABINET | [F7] | TB IN EAST FIELD CABINET | | |
| [D1] | TB IN DRIVE 1 CABINET | [F2] | TB IN EAST PC2 CABINET | [F8] | TB IN WEST FIELD CABINET | | |
| [D2] | TB IN DRIVE 2 CABINET | [F5] | TB IN EAST PC5 CABINET | | | | |

NOTE 1: CB AUX. BUCKET FUSE

NOTE 2: PUSH-TO-TEST CIRCUITS ARE NOT SHOWN

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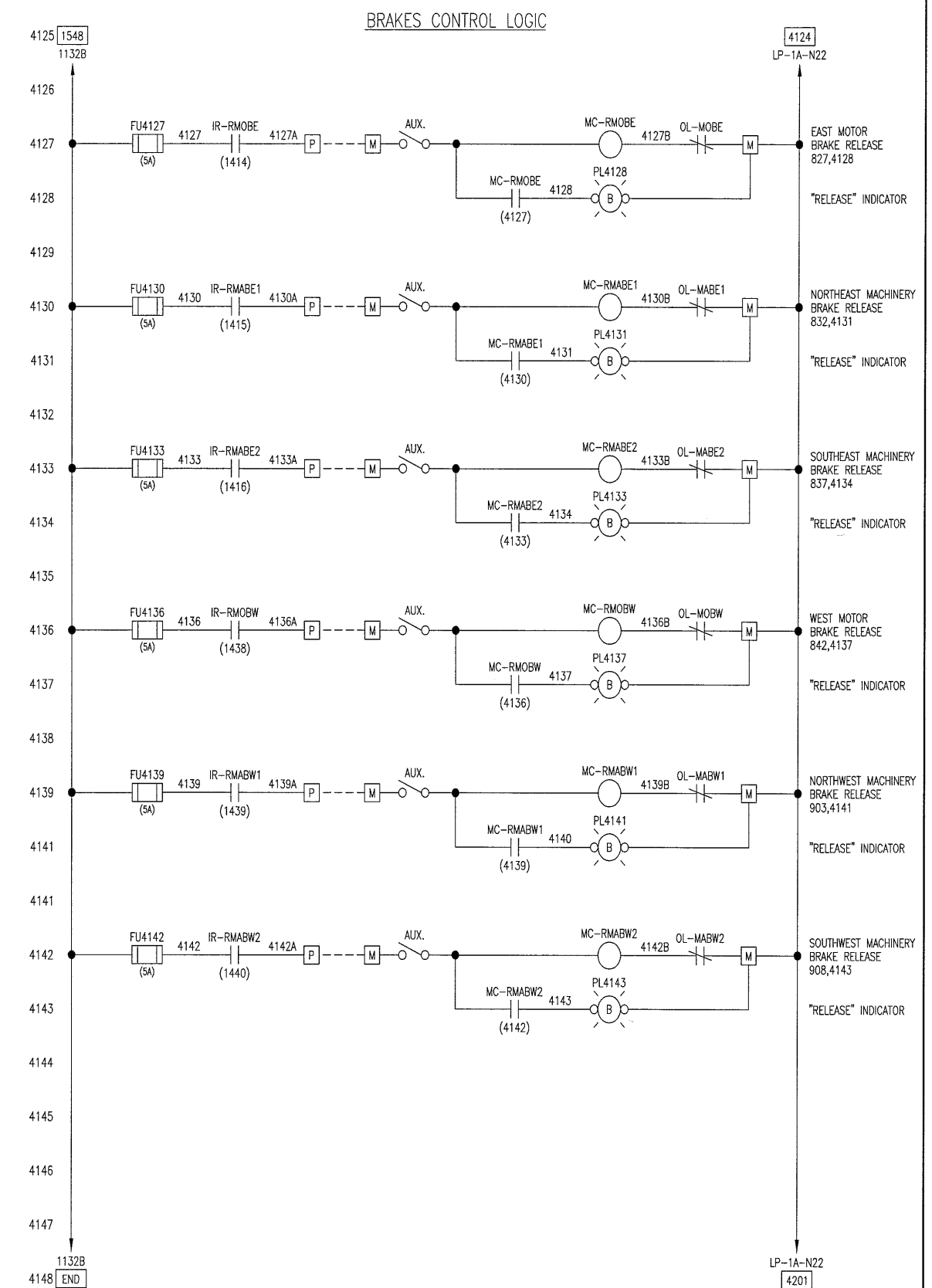
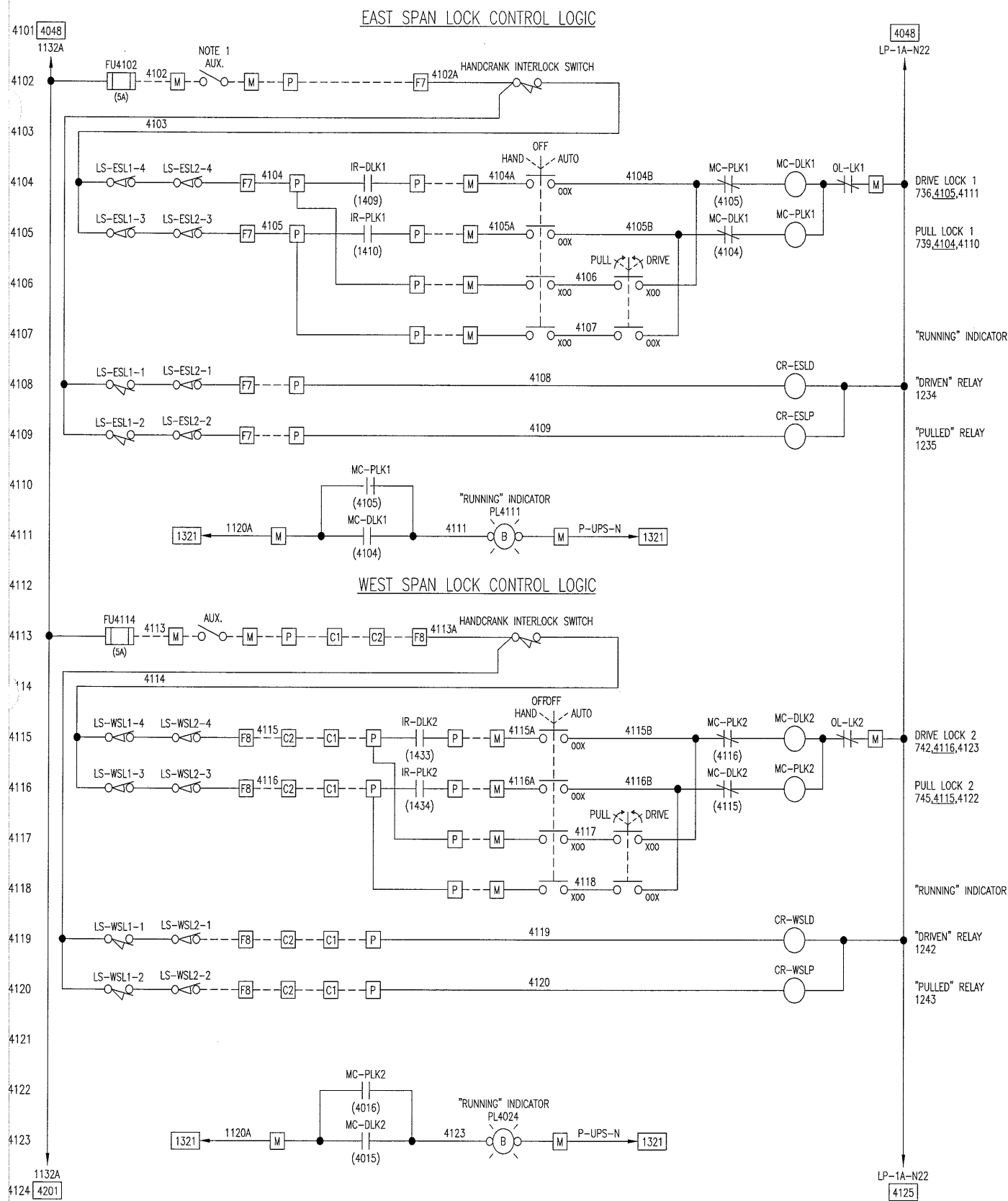
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B	1/18/07		ISSUED FOR CONSTRUCTION	LVT	YV	
A	8/14/06		ISSUED FOR APPROVAL	LVT	YV	

PANATROL CORPORATION
7481 SOUTH SKYBEE AVE
BEDFORD PARK, IL 60838

CAPE FEAR BRIDGE
TRAFFIC SIGNAL CONTROL
SCHEMATIC DIAGRAM

JOB No.	6416
APPROVED BY:	YV
DESIGNED BY:	YV
DRAWN BY:	LVT
CHECKED BY:	YV
DATE:	8/11/06
SCALE:	NONE
SIZE:	D
DRAWING NO.:	6416040

FOR: ATLANTIC ELECTRIC



LEGEND:

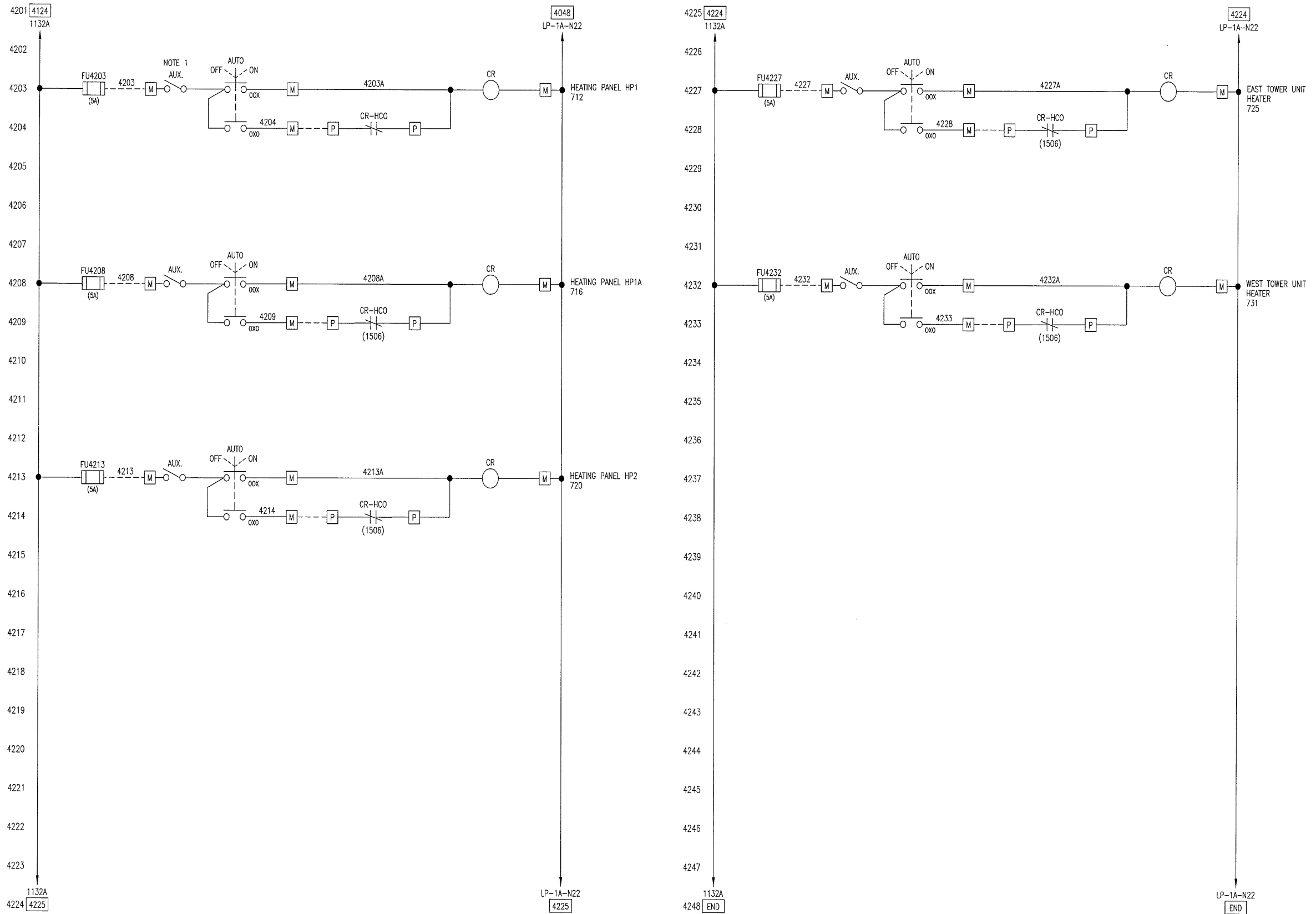
[P] TB IN PLC CABINET	[D3] TB IN DRIVE 3 CABINET	[F3] TB IN WEST PC3 CABINET	[SS3] 120V SURGE SUPPRESSOR TB IN PLC CABINET
[C] TB IN CONSOLE	[D4] TB IN DRIVE 4 CABINET	[F4] TB IN WEST PC4 CABINET	[E] 120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
[C1] TB IN EAST CC1 CABINET	[M] TB IN MOTOR CONTROL CENTER	[F6] TB IN WEST PC6 CABINET	[W] 120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
[C2] TB IN WEST CC2 CABINET	[F1] TB IN EAST PC1 CABINET	[F7] TB IN EAST FIELD CABINET	
[D1] TB IN DRIVE 1 CABINET	[F2] TB IN EAST PC2 CABINET	[F8] TB IN WEST FIELD CABINET	
[D2] TB IN DRIVE 2 CABINET	[F5] TB IN EAST PC5 CABINET		

NOTE1: CB AUX. BUCKET FUSE

NOTE2: PUSH-TO-TEST CIRCUITS ARE NOT SHOWN

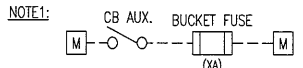
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PANATROL CORPORATION 7451 SOUTH SAYERS AVE BEDFORD PARK, IL 60838		JOB No. 6416
CAPE FEAR BRIDGE TRAFFIC SIGNAL CONTROL SCHEMATIC DIAGRAM		APPROVED BY: VY DESIGNED BY: VY DRAWN BY: LVT CHECKED BY: VY
DATE: 8/11/08		SCALE: NONE SIZE: D
DRAWING NO. 6416041		FOR: ATLANTIC ELECTRIC



LEGEND:

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| [P] TB IN PLC CABINET | [D3] TB IN DRIVE 3 CABINET | [F3] TB IN WEST PC3 CABINET | [P] 120V SURGE SUPPRESSOR |
| [C] TB IN CONSOLE | [D4] TB IN DRIVE 4 CABINET | [F4] TB IN WEST PC4 CABINET | [SS3] TB IN PLC CABINET |
| [C1] TB IN EAST CC1 CABINET | [M] TB IN MOTOR CONTROL CENTER | [F6] TB IN WEST PC6 CABINET | [E] 120V SURGE SUPPRESSOR |
| [C2] TB IN WEST CC2 CABINET | [F1] TB IN EAST PC1 CABINET | [F7] TB IN EAST FIELD CABINET | [SS3] TB IN EAST I/O CABINET |
| [D1] TB IN DRIVE 1 CABINET | [F2] TB IN EAST PC2 CABINET | [F8] TB IN WEST FIELD CABINET | [W] 120V SURGE SUPPRESSOR |
| [D2] TB IN DRIVE 2 CABINET | [F5] TB IN EAST PC5 CABINET | | [SS3] TB IN WEST I/O CABINET |



NOTE2: PUSH-TO-TEST CIRCUITS ARE NOT SHOWN

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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

PANATROL CORPORATION
 7461 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60639

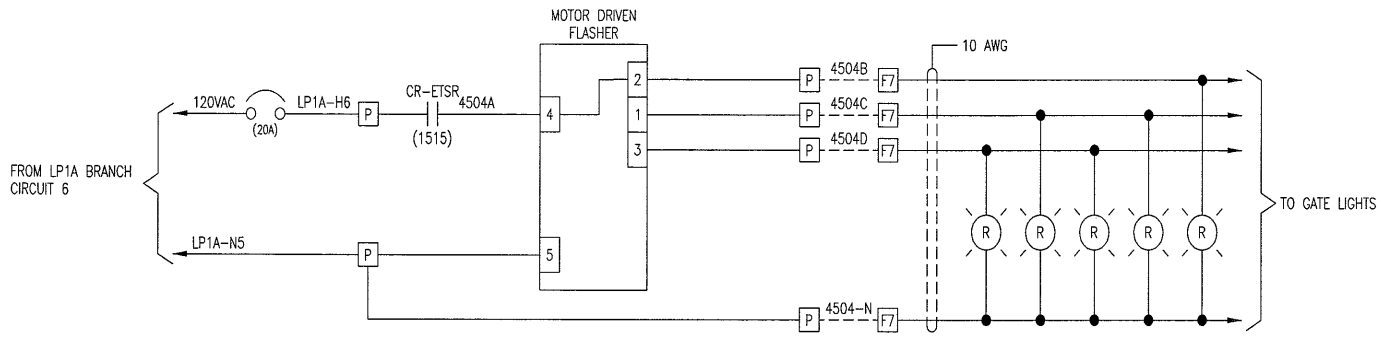
CAPE FEAR BRIDGE
 HEATING PANELS CONTROL
 SCHEMATIC DIAGRAM

FOR: ATLANTIC ELECTRIC

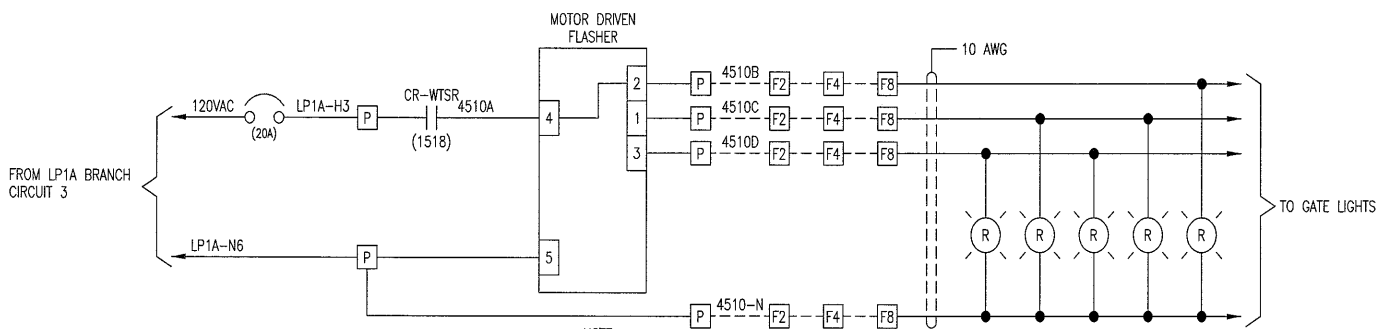
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DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY
DATE: 8/11/06
SCALE: NONE
SIZE: D
DRAWING NO. 6416042

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EAST WARNING BARRIER & GATE LIGHTS

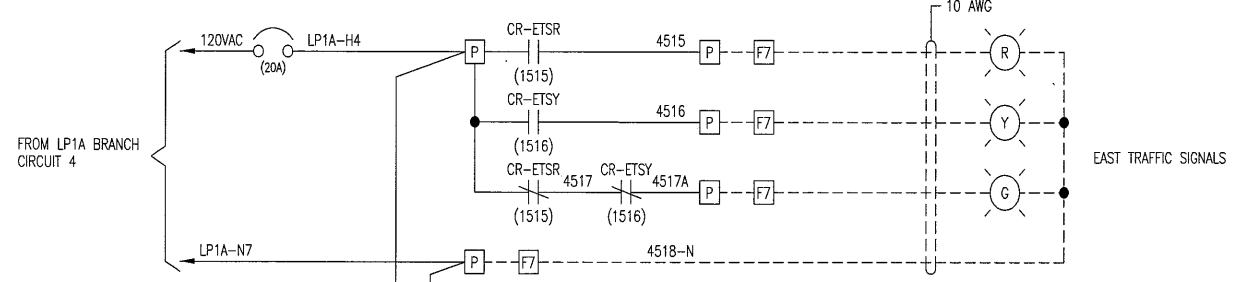


WEST WARNING BARRIER & GATE LIGHTS

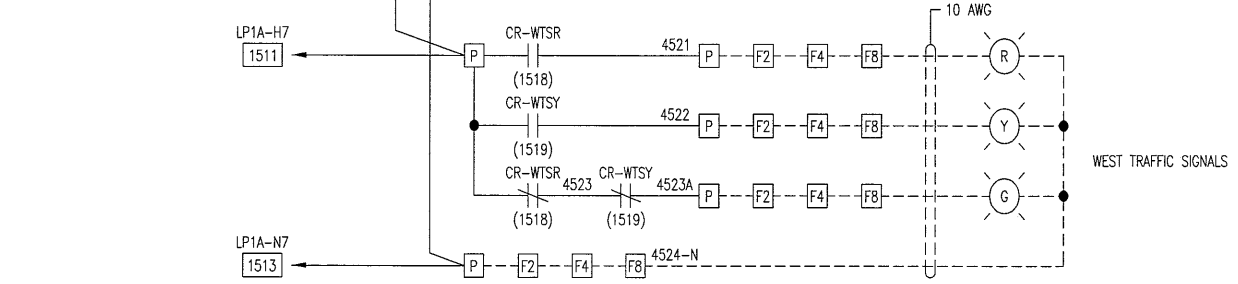


NOTE:
1. STEADY BURN (END OF GATE ARM)
2. ALTERNATE FLASH CIRCUIT A
3. ALTERNATE FLASH CIRCUIT B

EAST TRAFFIC SIGNALS



WEST TRAFFIC SIGNALS

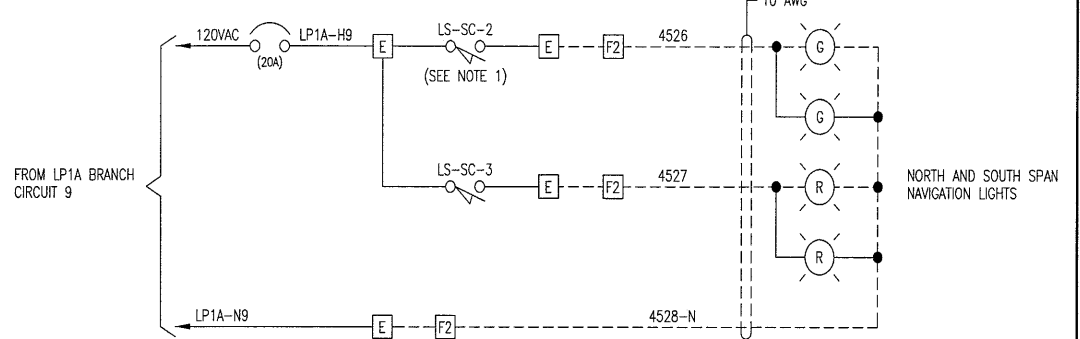


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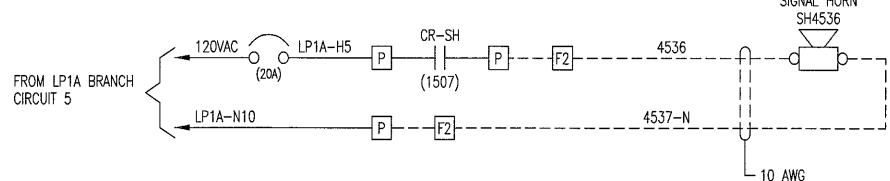
[P]	TB IN PLC CABINET	[D3]	TB IN DRIVE 3 CABINET	[F3]	TB IN WEST PC3 CABINET	[SS3]	120V SURGE SUPPRESSOR TB IN PLC CABINET
[C]	TB IN CONSOLE	[D4]	TB IN DRIVE 4 CABINET	[F4]	TB IN WEST PC4 CABINET	[E]	120V SURGE SUPPRESSOR TB IN EAST I/O CABINET
[C1]	TB IN EAST CC1 CABINET	[M]	TB IN MOTOR CONTROL CENTER	[F6]	TB IN WEST PC6 CABINET	[W]	120V SURGE SUPPRESSOR TB IN WEST I/O CABINET
[C2]	TB IN WEST CC2 CABINET	[F1]	TB IN EAST PC1 CABINET	[F7]	TB IN EAST FIELD CABINET		
[D1]	TB IN DRIVE 1 CABINET	[F2]	TB IN EAST PC2 CABINET	[F8]	TB IN WEST FIELD CABINET		
[D2]	TB IN DRIVE 2 CABINET	[F5]	TB IN EAST PC5 CABINET				

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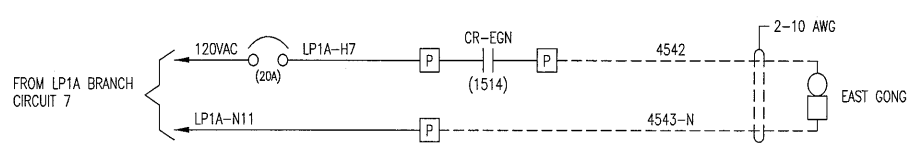
SPAN NAVIGATION LIGHTS



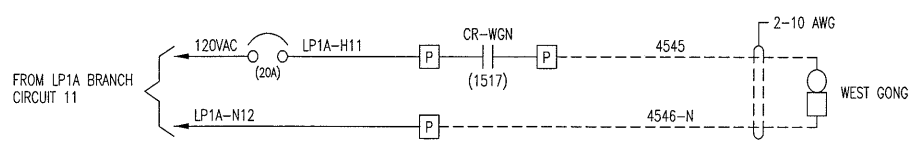
SIGNAL HORN



EAST GONG



WEST GONG



NOTES:

1. INPUT TO PLC (SEE DWG 6416031)

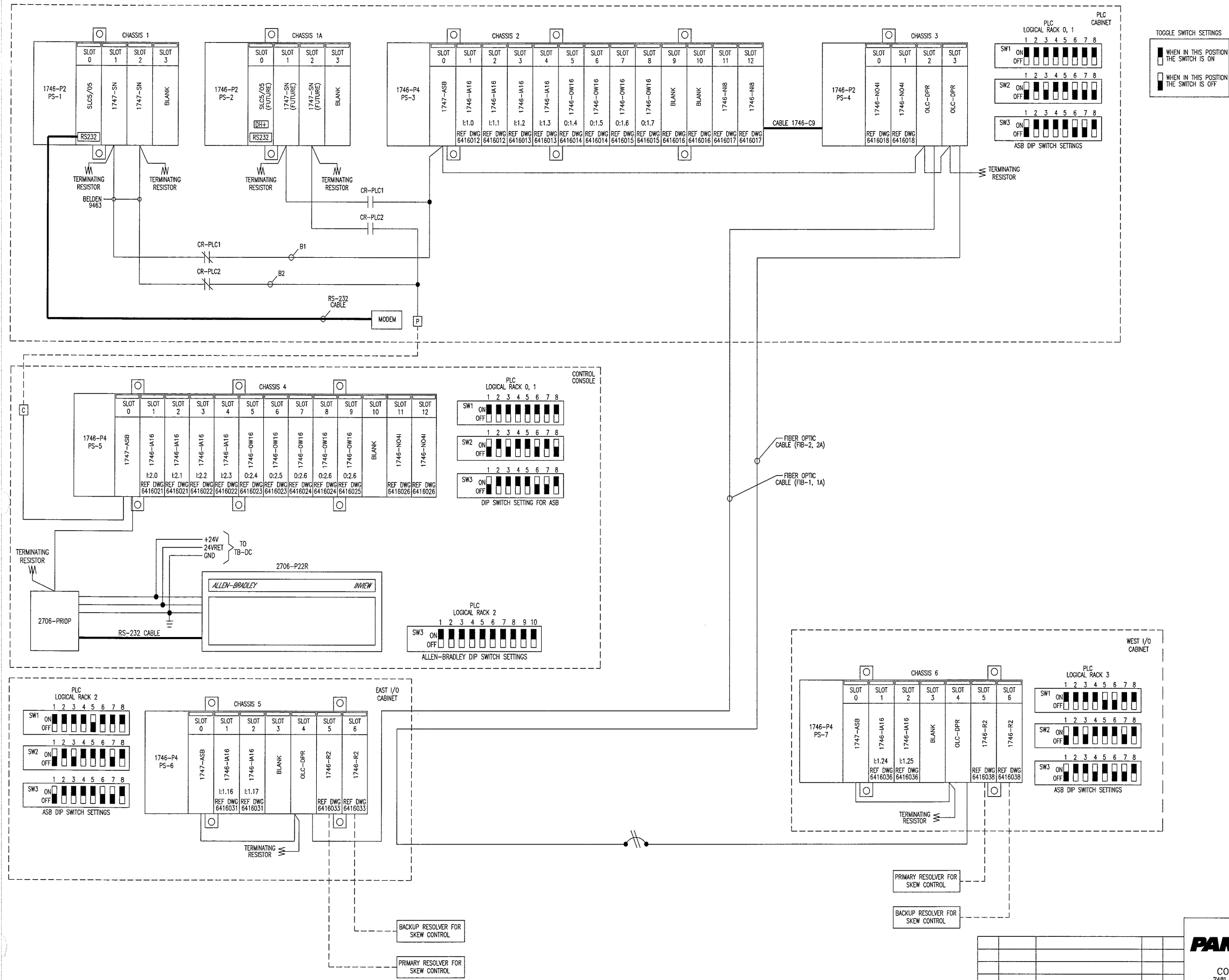
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A	8/14/06	ISSUED FOR APPROVAL	LVT	VY	

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60658

CAPE FEAR BRIDGE
EAST & WEST WARNING GATES LIGHTS,
GONGS & TRAFFIC SIGNALS
SCHEMATIC DIAGRAM

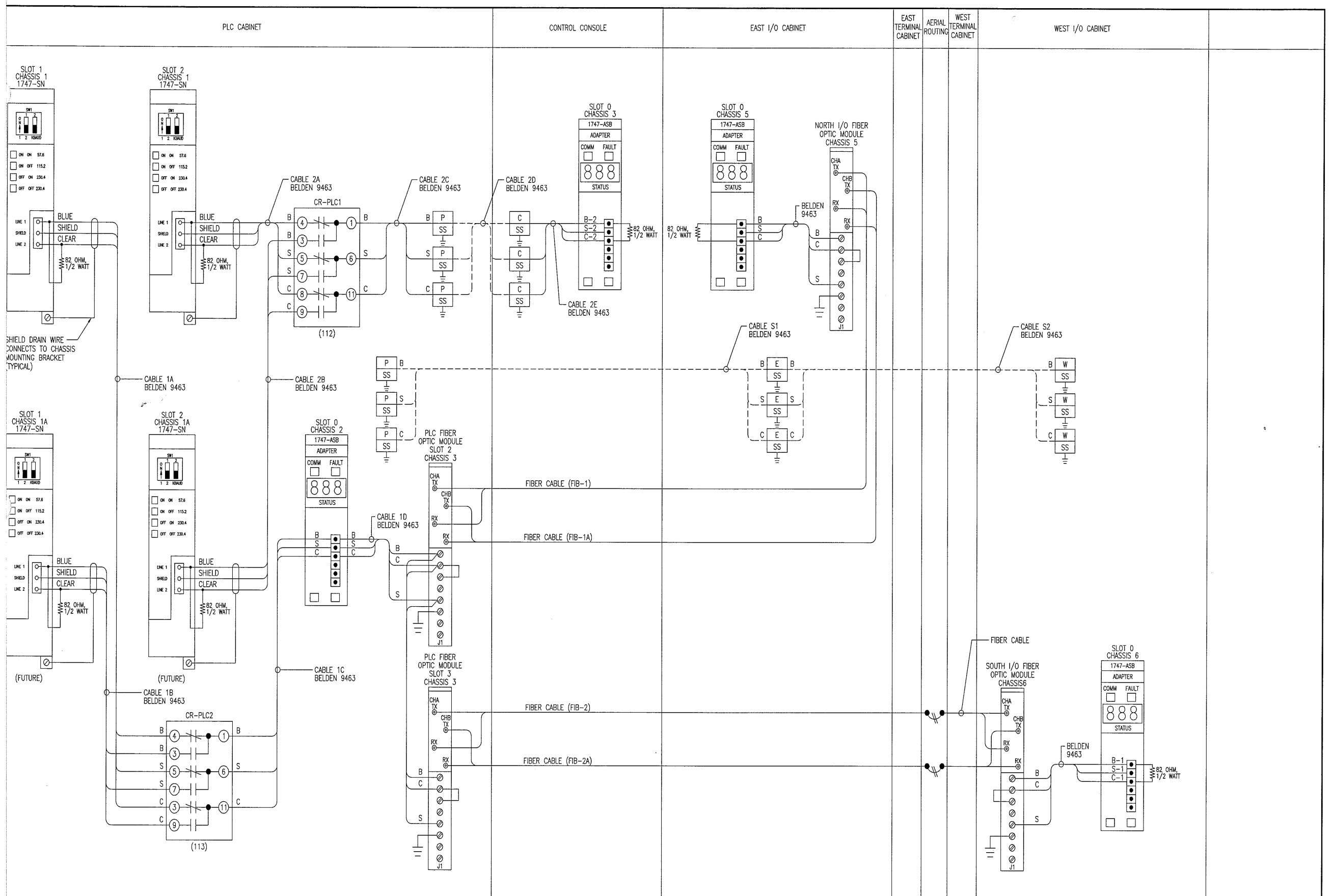
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DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE
SIZE: D
DRAWING NO. 6416045
FOR: ATLANTIC ELECTRIC



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C		10/12/07	REVISED AS INSTALLED	LVT	VY
B		1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A		8/14/06	ISSUED FOR APPROVAL	LVT	VY
NO.	DATE	REVISIONS		DRAWN BY	CHECKED BY

		JOB No.	6416
CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		APPROVED BY:	VY
CAPE FEAR BRIDGE REMOTE I/O COMMUNICATIONS LINK SINGLE LINE		DESIGNED BY:	VY
		DRAWN BY:	LVT
		CHECKED BY:	VY
		DATE:	8/11/06
		SCALE:	NONE
		SIZE:	D
		DRAWING NO.	6416050
		FOR:	ATLANTIC ELECTRIC



SHIELD DRAIN WIRE
CONNECTS TO CHASSIS
MOUNTING BRACKET
(TYPICAL)

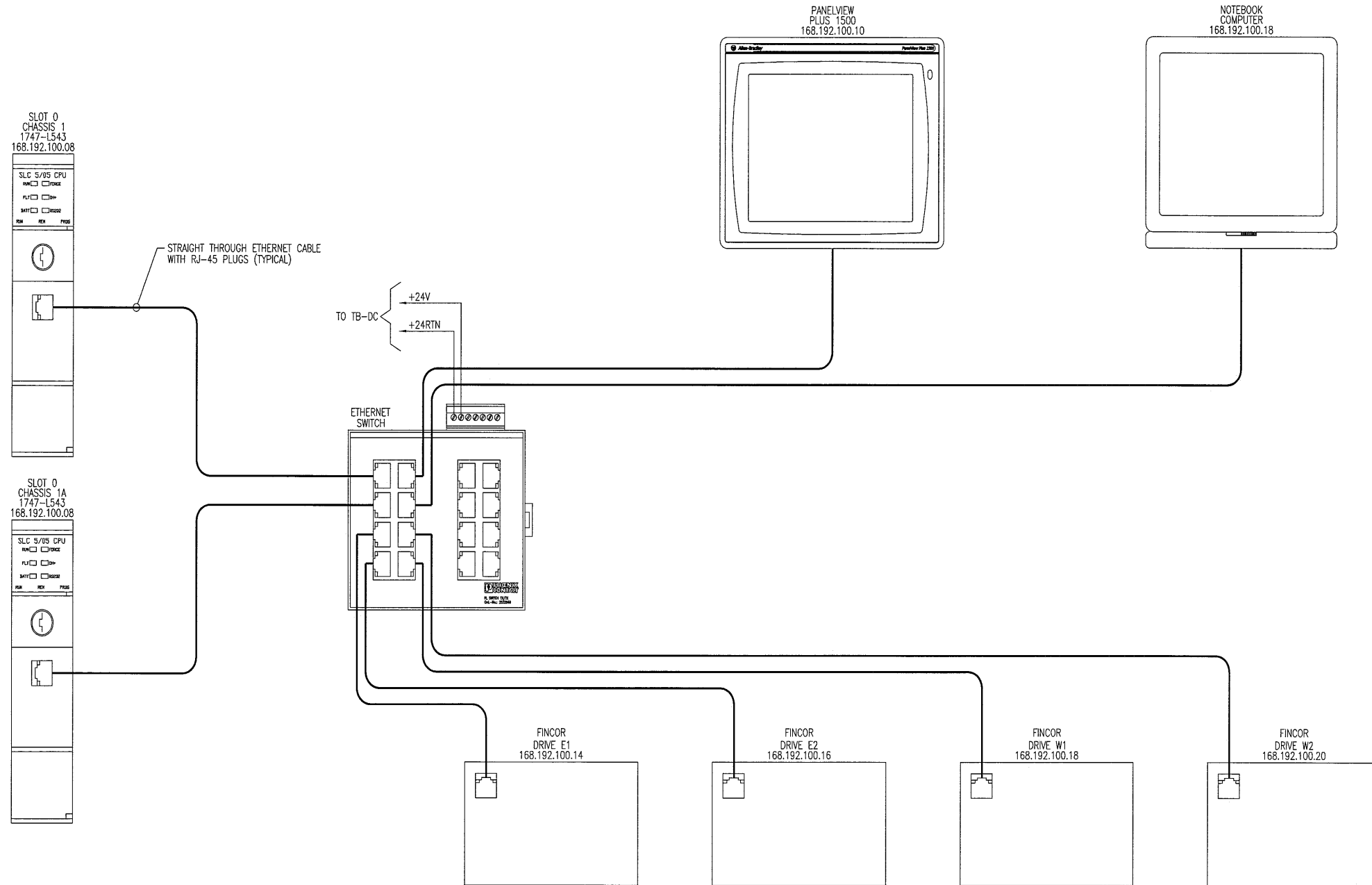
(FUTURE)

(FUTURE)

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JOB No. 6416		APPROVED BY: VY	
DESIGNED BY: VY		DRAWN BY: LVT	
CHECKED BY: VY		DATE: 8/11/06	
SCALE: NONE		SIZE: D	
DRAWING NO. 6416052		FOR: ATLANTIC ELECTRIC	

NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR
C	10/12/07	REVISED AS INSTALLED	LVT	VY	
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY	



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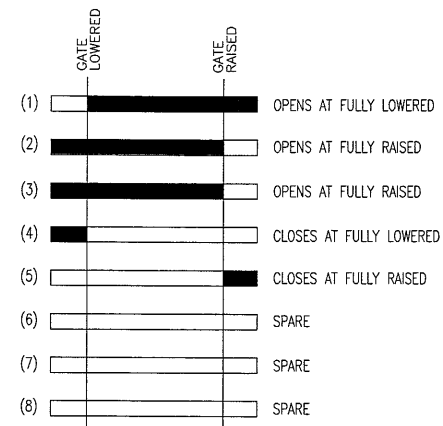
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
 7481 SOUTH SAYEE AVE
 BEDFORD PARK, IL 60638

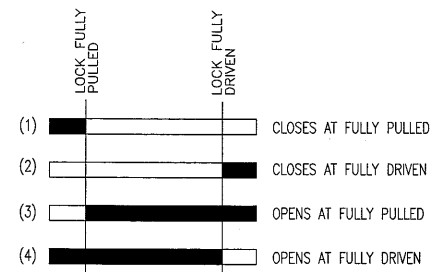
CAPE FEAR BRIDGE
 ETHERNET COMMUNICATIONS NETWORK

FOR: ATLANTIC ELECTRIC

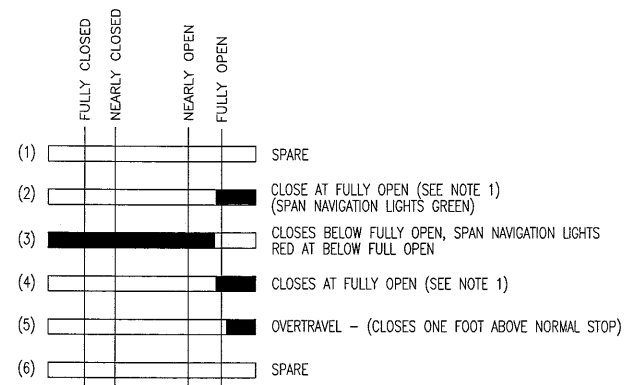
JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416053



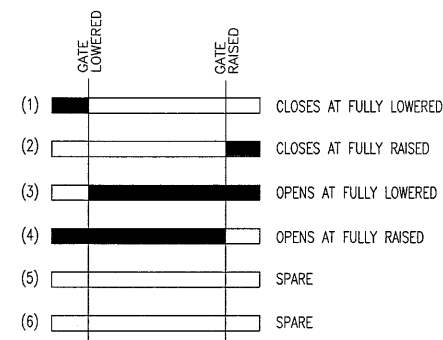
WARNING GATE LIMIT SWITCHES
LS-WG, LS-EG
(EXISTING)



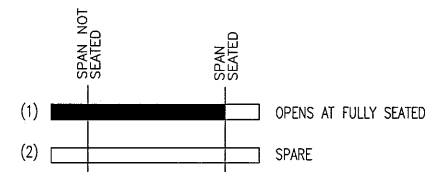
SPAN LOCK LIMIT SWITCHES
LS-ESL, LS-WSL
(EXISTING)



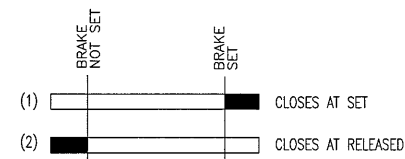
SPAN CONTROL LIMIT SWITCH
LS-SC
(E107)



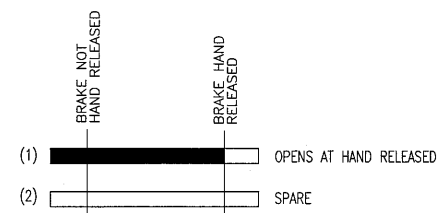
BARRIER GATE LIMIT SWITCHES
LS-WB, LS-EB
(PART OF NEW BARRIER GATE ASSEMBLY)



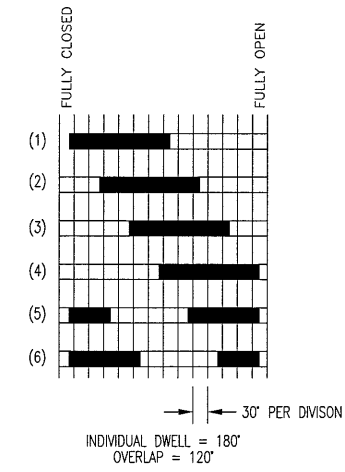
SPAN FULLY SEATED LIMIT SWITCHES
LS-SSNE, LS-SSSE, LS-SSNW, LS-SSSW
(EXISTING PROXIMITY SWITCHES)



BRAKE LIMIT SWITCHES
LS-MOBE, LS-MABE1, LS-MABW1,
LS-MOBW, LS-MABE2, LS-MABW2



HAND BRAKE RELEASED LIMIT SWITCHES
LS-MOBEHR, LS-MABE1HR, LS-MABW1HR,
LS-MOBWHR, LS-MABE2HR, LS-MABW2HR



SKEW SHUTDOWN LIMIT SWITCH
(2 PLACES)
(E123)

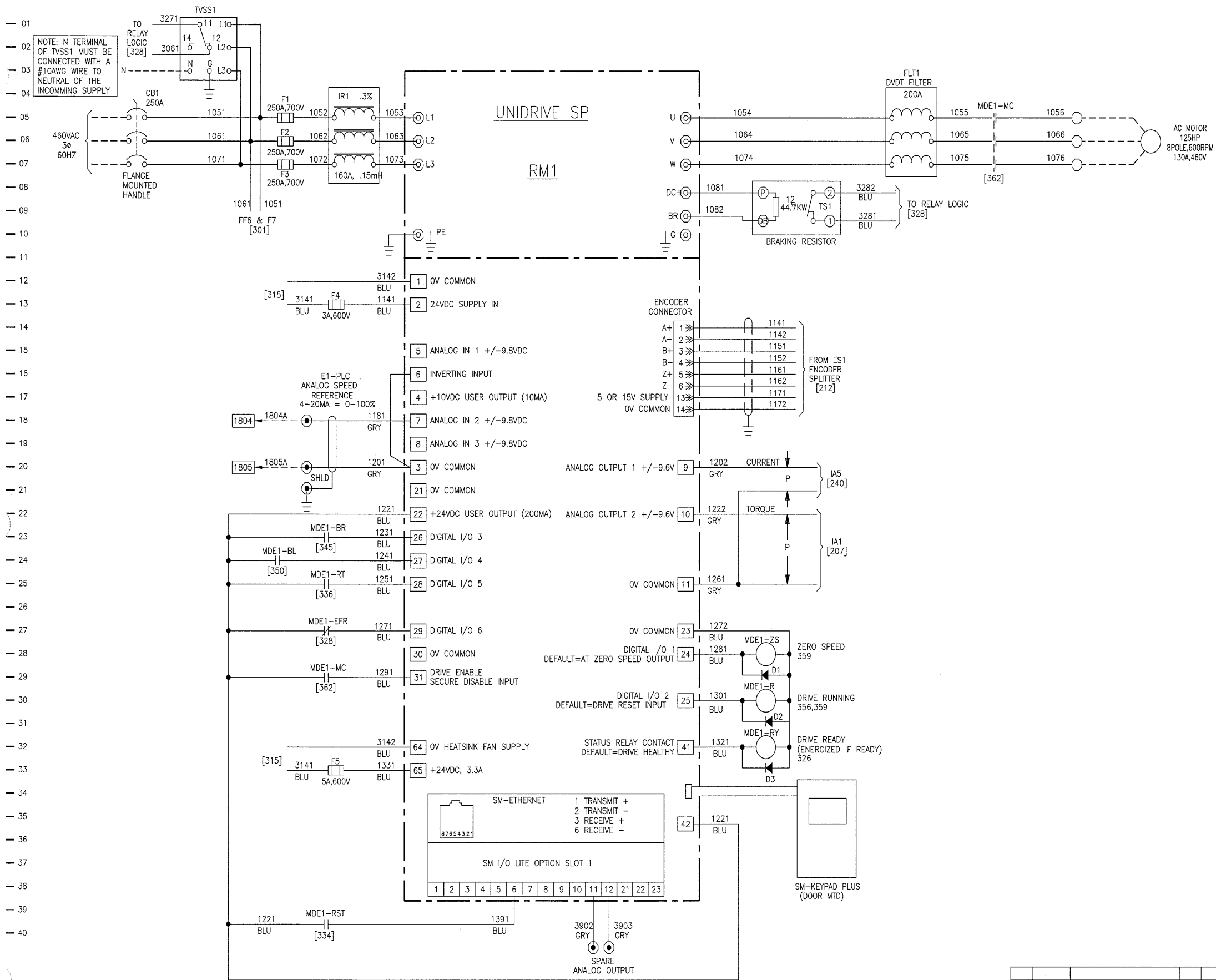
LEGEND:
■ CONTACT CLOSED
□ CONTACT OPEN

NOTES:

1. THE FULL OPEN SETTING OF THIS SWITCH SHALL BE FIELD DETERMINED SUCH THAT IT SENSES FULL OPEN SLIGHTLY BEFORE THE FULL OPEN SETTINGS OF THE RESOLVER (I.E. SO THAT THE SPAN NAVIGATION LIGHTS TURN GREEN BEFORE THE MASTER RAISE SEQUENCE IS DE-ENERGIZED AND THE BRIDGE COMES TO A COMPLETE STOP.)
2. BRAKE, SPAN LOCK AND WARNING GATE SWITCHES ARE EXISTING. BARRIER GATE AND SPAN CONTROL SWITCHES ARE NEW.
3. TEST EXISTING LIMIT SWITCHES ON WARNING GATES, SPAN LOCKS AND BRAKES FOR PROPER OPERATION. CLEAN CONTACTS, ADJUST IF NECESSARY.

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										 CORPORATION 7481 SOUTH SAYRE AVE BIRDPOD PARK, IL 60058 CAPE FEAR BRIDGE LIMIT SWITCH CONTACT DEVELOPMENT		JOB No. 6416 APPROVED BY: VY DESIGNED BY: VY DRAWN BY: LVT CHECKED BY: VY DATE: 8/11/06 SCALE: NONE SIZE: D DRAWING NO. 6416054 FOR: ATLANTIC ELECTRIC
C	10/12/07	REVISED AS INSTALLED	LVT	VY								
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY								
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY								
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:							



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NOTE: N TERMINAL OF TVSS1 MUST BE CONNECTED WITH A #10AWG WIRE TO NEUTRAL OF THE INCOMING SUPPLY

NOTE:
SM I/O+ OPTION IS AVAILABLE TO INCREASE THE NUMBER OF DIGITAL I/O POINTS.

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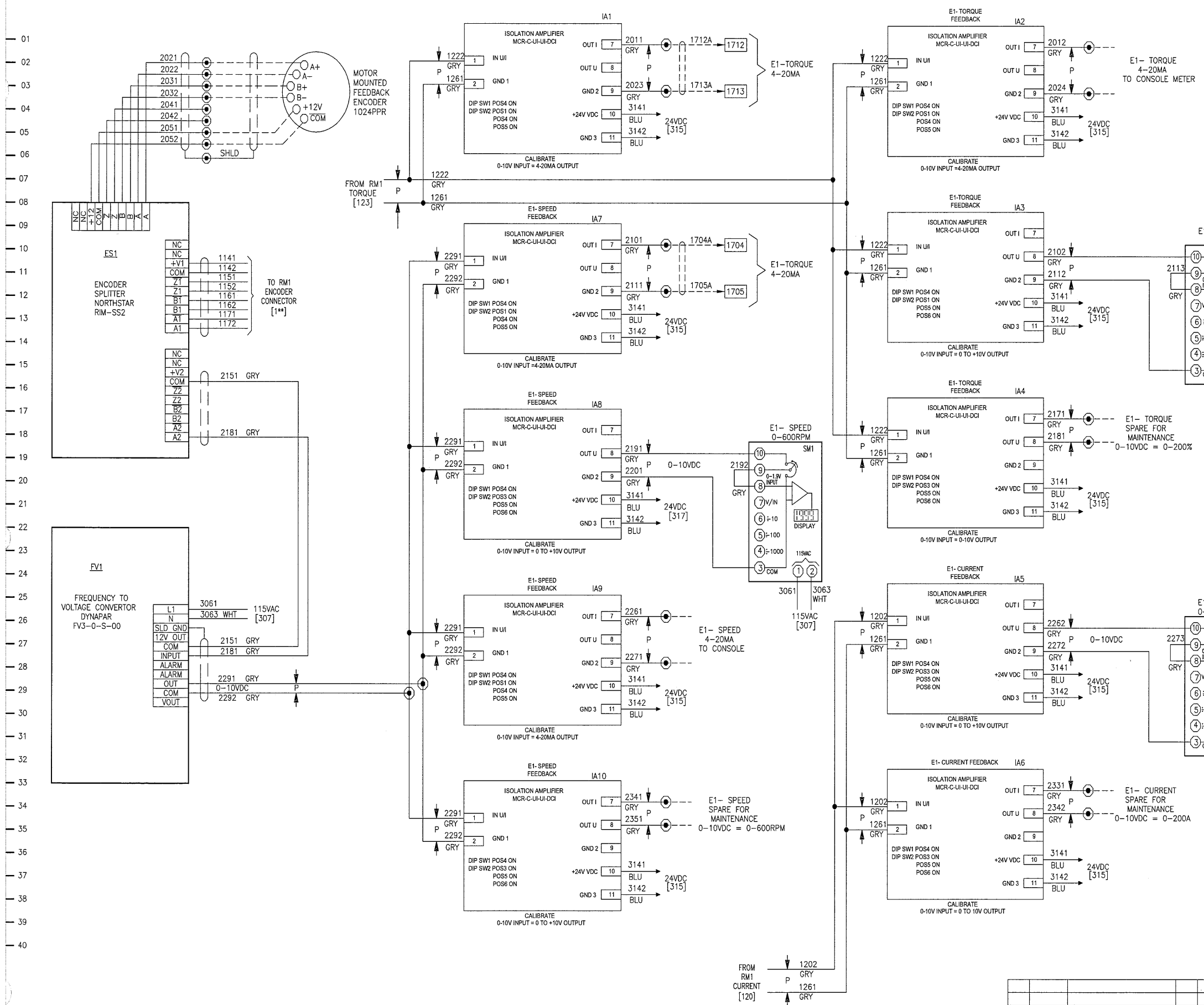
SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

Sheet 1 of 4 C 1069039 REV. A

7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE MDE1
UNIDRIVE SP RM1

JOB No. 6416
APPROVED BY: VY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416060
FOR: ATLANTIC ELECTRIC



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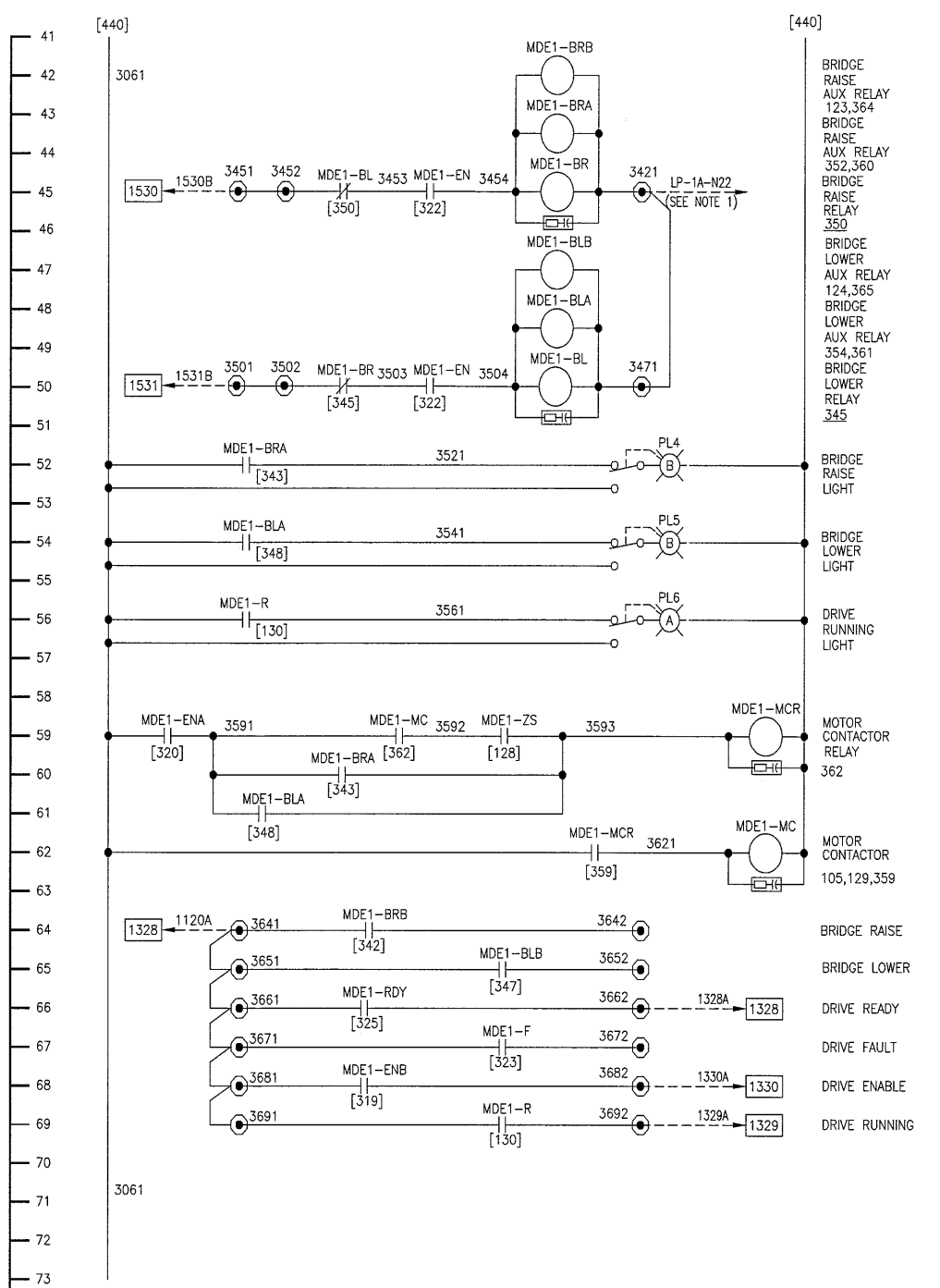
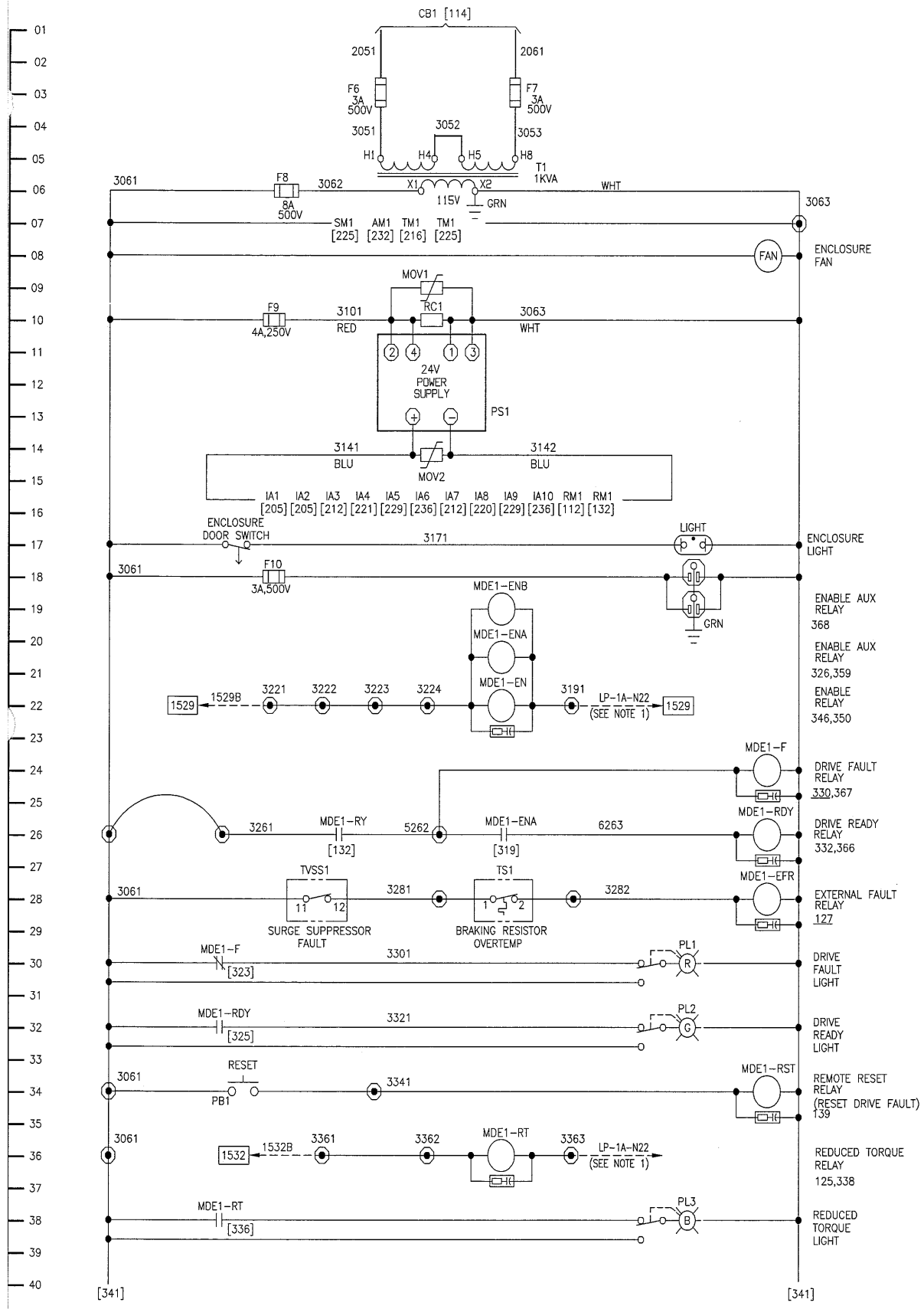
FINCOR
Automation

SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHEET 2 of 4	REV. C	JOB No. 1069039	REV. A
APPROVED BY: VY		JOB No. 6416	
DESIGNED BY: VY		DRAWN BY: LVT	
CHECKED BY: VY		DATE: 8/11/06	
CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		SCALE: NONE SIZE: D	
CAPE FEAR BRIDGE LIFT DRIVE MDE1 UNDRIVE SP RM1		DRAWING NO. 6416061	
FOR: ATLANTIC ELECTRIC			

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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY



NOTES:
1. INSTALL JUMBERS BETWEEN TERMINALS 3191-3363-3421-3471.

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SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124341


SHR 3 of 4	REV. C	1069039	REV. A
JOB No. 6416		APPROVED BY: YV	
DRAWN BY: LVT		DESIGNED BY: YV	
CHECKED BY: YV		DATE: 8/11/06	
CAPE FEAR BRIDGE		SCALE: NONE	
LIFT DRIVE MDE1		SIZE: D	
UNIDRIVE SP RM1		DRAWING NO. 6416062	
FOR: ATLANTIC ELECTRIC		12/3/2007 1:53:01 PM	

PARAMETER	NAME	SETTING	DESCRIPTION
0.02(1.06)	MAX REF CLAMP	600	RPM
0.03(2.11)	ACCEL RATE	0	RUN ACCEL RATE SEC/1000RPM
0.04(2.21)	DECEL RATE	0	RUN DECEL RATE SEC/1000RPM
0.15(2.04)	RAMP MODE SELECT	0	FAST
0.16(2.02)	RAMP ENABLE	0	SET TO 0 TO FOLLOW PLC RAMP
0.19(7.11)	ANALOG INPUT 2 MODE	4	4-20
0.27(3.34)	ENCODER LINES/REV	1024	PPR
0.32(11.32)	DRIVE RATED CURRENT	180	DRIVE AMPS @ 50°C
0.44(5.09)	MOTOR RATED VOLTAGE	460	VOLTS
0.46(5.07)	MOTOR RATED CURRENT	168.3	AMPS
0.48(11.31)	OP. MODE	2	VT
1.14	REFERENCE SELECTOR	2	A2.PR
3.36	ENCODER SUPPLY VOLTAGE	2	15V
3.38	ENCODER TYPE	0	AB
7.11	T7 ANALOG INPUT 2 MODE	4	4-20
7.14	T7 ANALOG INPUT 2 DESTINATION	1.37	
7.19	T9 ANALOG OUTPUT 1 SOURCE	4.02	CURRENT
7.20	T9 ANALOG OUTPUT 1 SCALING	1.7	0-10V = 0-200A
7.22	T10 ANALOG OUTPUT 2 SOURCE	4.03	TORQUE
7.23	T10 ANALOG OUTPUT 2 SCALING	0.847	0-10V = 0-200%
8.11	T24 DIGITAL I/O 1 INVERT	1	INVERT
8.21	T24 DIGITAL I/O SOURCE	10.03	ZERO SPEED
8.22	T25 DIGITAL I/O 2 SOURCE	10.02	DRIVE RUNNING
8.23	T26 DIGITAL I/O 3 DESTINATION	6.30	RUN FORWARD
8.24	T27 DIGITAL I/O 4 DESTINATION	6.32	RUN REVERSE
8.25	T28 DIGITAL I/O 5 DESTINATION	14.05	REDUCED TORQUE
8.26	T29 DIGITAL I/O 6 DESTINATION	10.32	EXTERNAL FAULT
8.32	T25 DIGITAL I/O 2 OUTPUT SELECT	1	
8.33	T26 DIGITAL I/O 3 OUTPUT SELECT	0	
8.39	T28 & T29 DIGITAL INPUT AUTO SEL DISABLE	1	DISABLES AUTO SELECT
14.03	PID REFERENCE SOURCE	18.11	* UNUSED LOCATION
14.08	PID ENABLE	1	* ENABLE PID CIRCUIT FOR REDUCED TORQUE
14.11	PID INTEGRAL GAIN	0	* NONE
14.13	PID UPPER LIMIT	90	
14.14	PID LOWER LIMIT	30	
14.15	PID OUTPUT SCALING FACTOR	1	* SCALING
14.16	PID DESTINATION	4.07	* CURRENT LIMIT 1/2 SETTING
17.24	T6 DIGITAL INPUT 4 DESTINATION	10.33	FAULT RESET
17.48	ANALOG OUTPUT 1 SOURCE	USER SELECT	SPARE ANALOG OUTPUT
18.11	UNUSED LOCATION	32000	* FORCEING VALUE FOR REDUCED TORQUE

* NOTE: PARAMETERS USED FOR REDUCED TORQUE MODE.

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SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHR 4 of 4 C 1069039 REV. A

JOB No. 6416

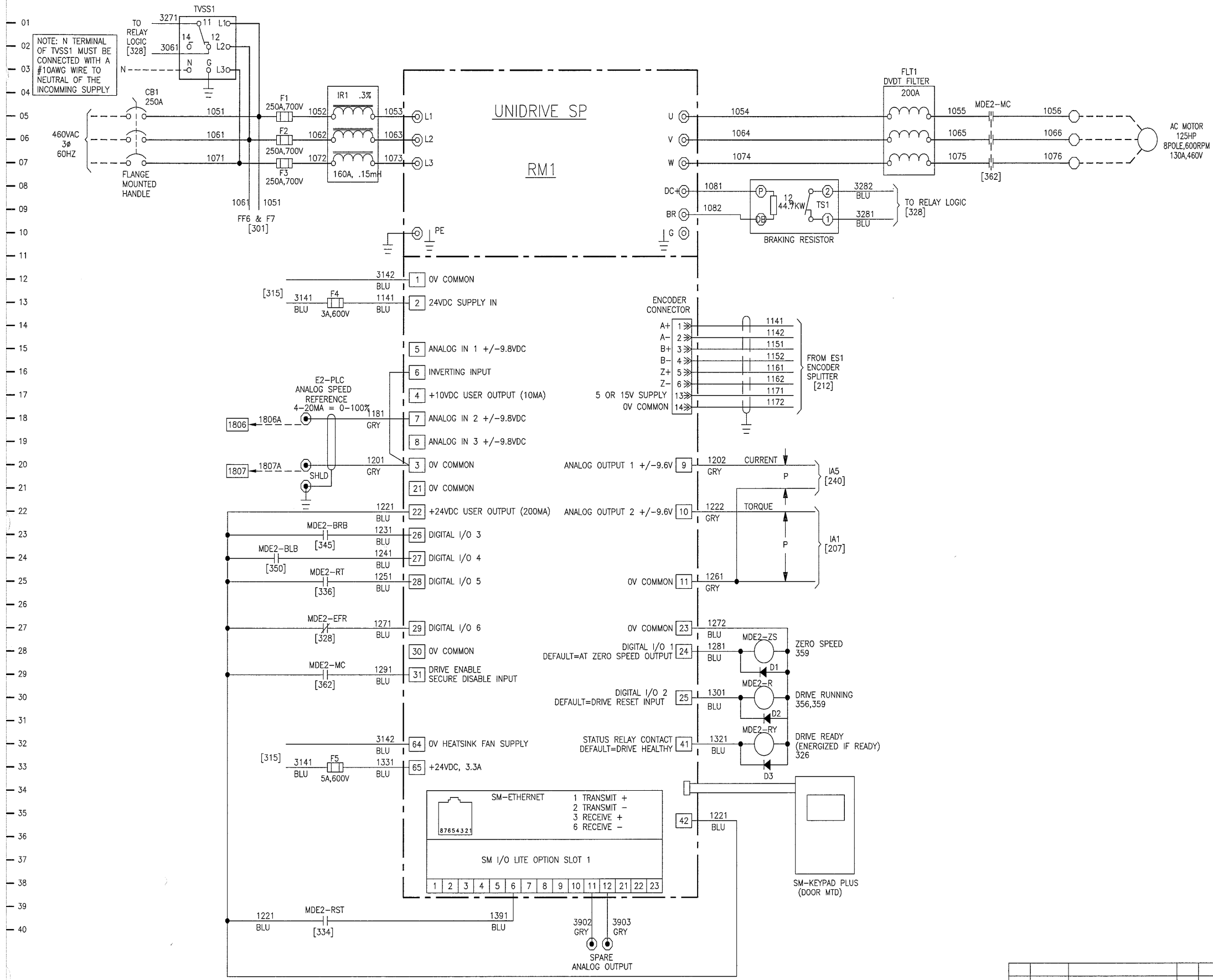


PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE MDE1
UNIDRIVE SP RM1

DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416063

FOR: ATLANTIC ELECTRIC



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NOTE: N TERMINAL OF TVSS1 MUST BE CONNECTED WITH A #10AWG WIRE TO NEUTRAL OF THE INCOMING SUPPLY

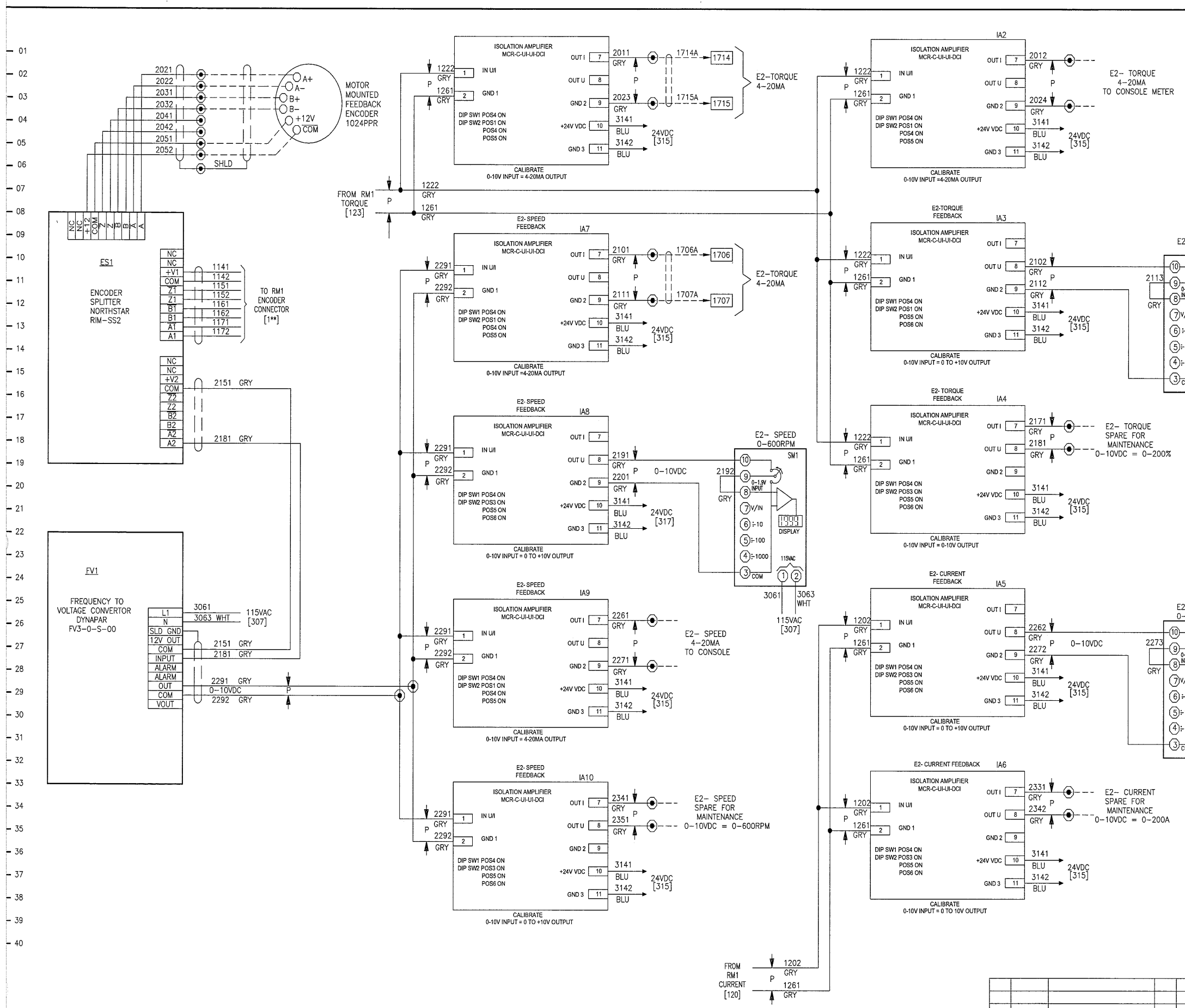
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SCHMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHT 1 of 4	REV. C	JOB No. 1069060	REV. A
APPROVED BY: VY		JOB No. 6416	
DESIGNED BY: VY		DATE: 8/11/06	
DRAWN BY: LVT		SCALE: NONE	
CHECKED BY: VY		SIZE: D	
CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		DRAWING NO. 6416064	
CAPE FEAR BRIDGE LIFT DRIVE MDE2 UNIDRIVE SP RM1		FOR: ATLANTIC ELECTRIC	

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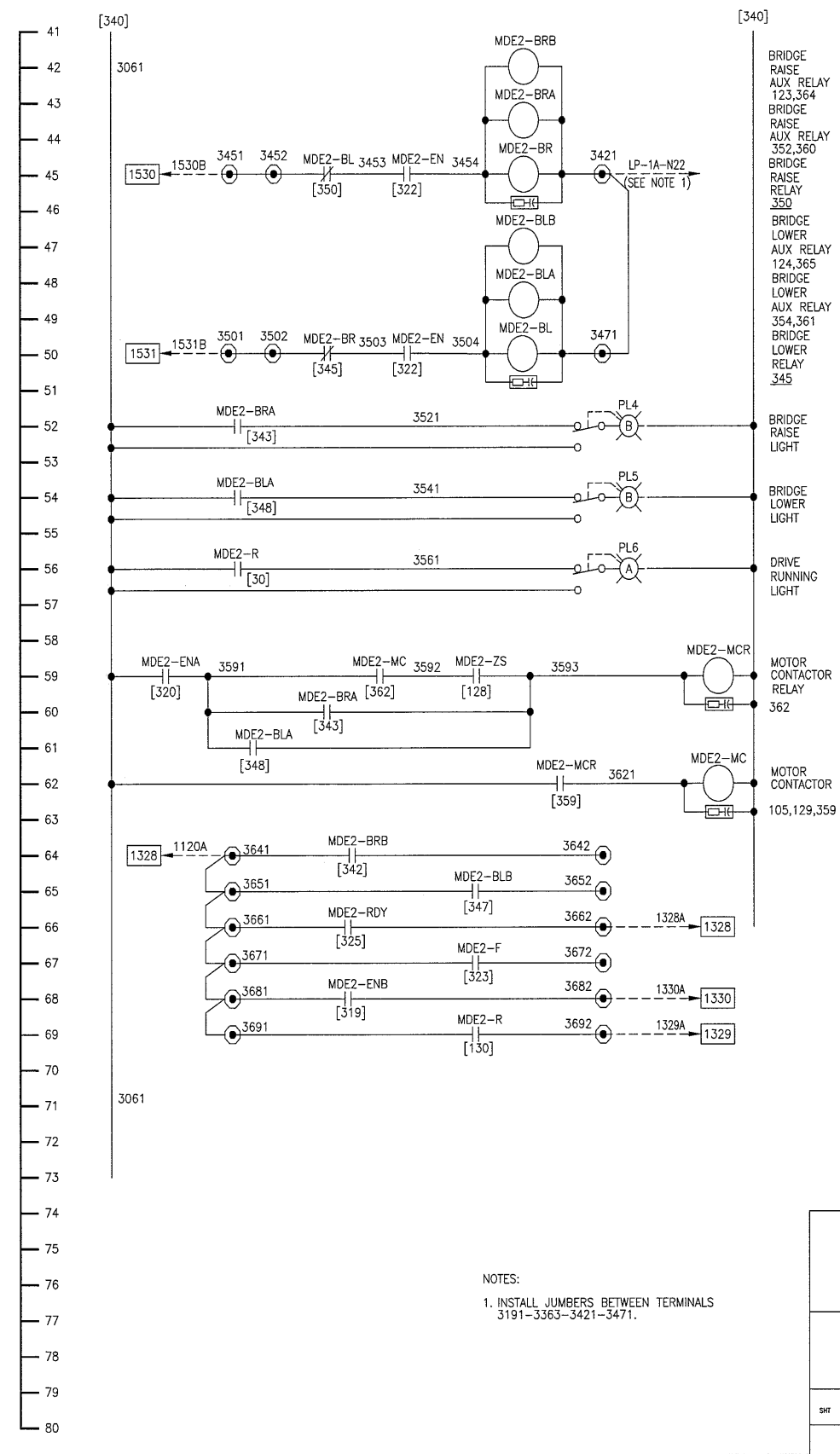
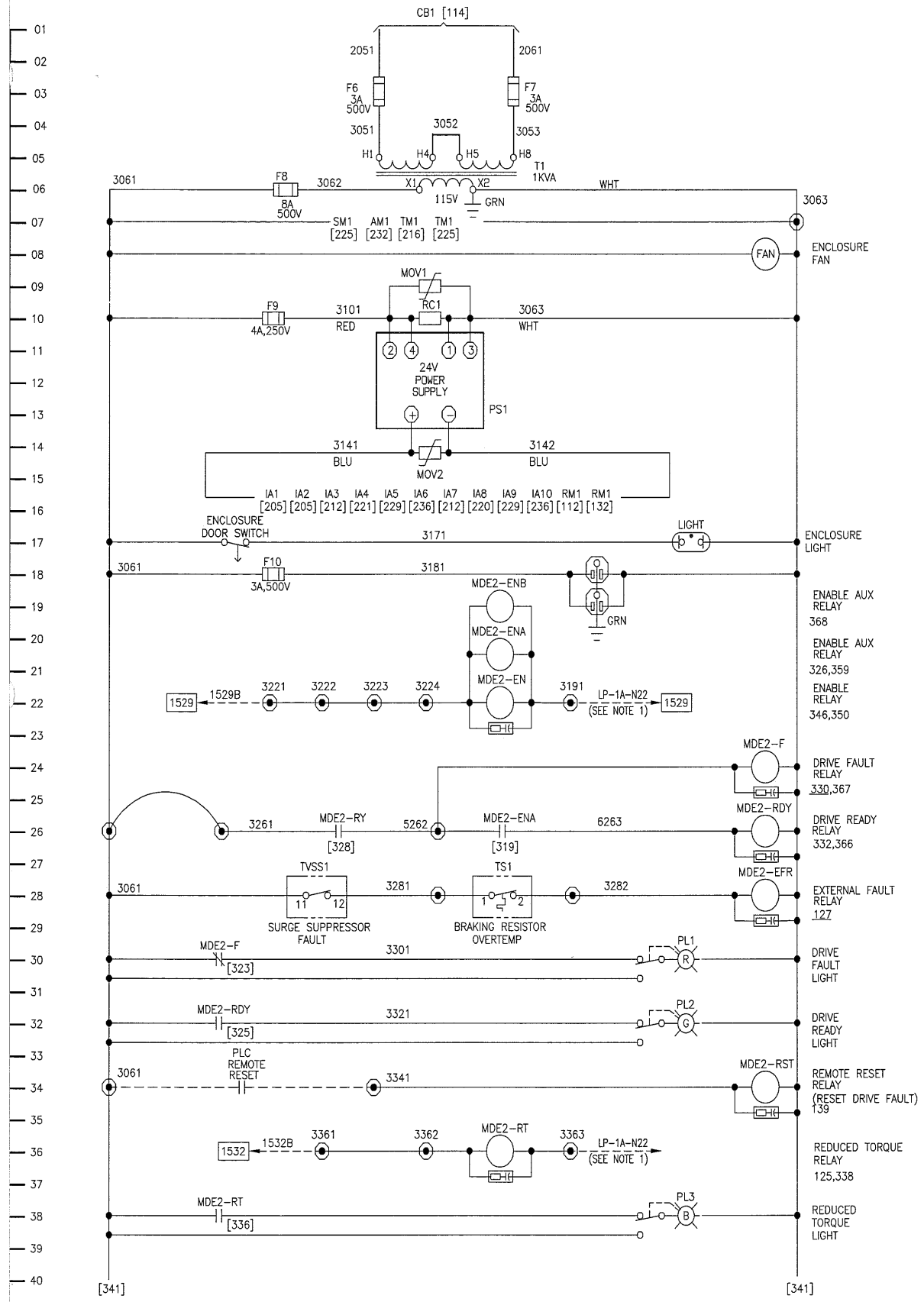
FINCOR
Automation

SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHT 2 of 4	REV. C	1069060	REV. A
JOB No. 6416		APPROVED BY: VY	
DESIGNED BY: VY		DRAWN BY: LVT	
CORPORATION 7481 SOUTH SAYERS AVE BEDFORD PARK, IL 60838		CHECKED BY: VY	
CAPE FEAR BRIDGE		DATE: 8/11/06	
LIFT DRIVE MDE2 UNIDRIVE SP RM1		SCALE: NONE SIZE: D	
DRAWING NO. 6416065		FOR: ATLANTIC ELECTRIC	

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NOTES:
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 3191-3363-3421-3471.

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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	VY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

FINCOR Automation

SCHEMATIC
LIFT DRIVE MDE2
FINCOR JOB NO. 124341

SHR 3 of 4	REV. C	JOB No. 1069060	REV. A
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JOB No. 6416

PANATROL CORPORATION
 7481 SOUTH SAYERS AVS
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE MDE2
UNDRIVE SP RM1

APPROVED BY: VY	DATE: 8/11/08
DESIGNED BY: VY	SCALE: NONE
DRAWN BY: LVT	SIZE: D
CHECKED BY: VY	DRAWING NO. 6416066


FOR: ATLANTIC ELECTRIC

PARAMETER	NAME	SETTING	DESCRIPTION
0.02(1.06)	MAX REF CLAMP	600	RPM
0.03(2.11)	ACCEL RATE	0	RUN ACCEL RATE SEC/1000RPM
0.04(2.21)	DECEL RATE	0	RUN DECEL RATE SEC/1000RPM
0.15(2.04)	RAMP MODE SELECT	0	FAST
0.16(2.02)	RAMP ENABLE	0	SET TO 0 TO FOLLOW PLC RAMP
0.19(7.11)	ANALOG INPUT 2 MODE	4	4-20
0.27(3.34)	ENCODER LINES/REV	1024	PPR
0.32(11.32)	DRIVE RATED CURRENT	180	DRIVE AMPS @ 50°C
0.44(5.09)	MOTOR RATED VOLTAGE	460	VOLTS
0.46(5.07)	MOTOR RATED CURRENT	168.3	AMPS
0.48(11.31)	OP. MODE	2	VT
1.14	REFERENCE SELECTOR	2	A2.PR
3.36	ENCODER SUPPLY VOLTAGE	2	15V
3.38	ENCODER TYPE	0	AB
7.11	T7 ANALOG INPUT 2 MODE	4	4-20
7.14	T7 ANALOG INPUT 2 DESTINATION	1.37	
7.19	T9 ANALOG OUTPUT 1 SOURCE	4.02	CURRENT
7.20	T9 ANALOG OUTPUT 1 SCALING	1.7	0-10V = 0-200A
7.22	T10 ANALOG OUTPUT 2 SOURCE	4.03	TORQUE
7.23	T10 ANALOG OUTPUT 2 SCALING	0.847	0-10V = 0-200%
8.11	T24 DIGITAL I/O 1 INVERT	1	INVERT
8.21	T24 DIGITAL I/O SOURCE	10.03	ZERO SPEED
8.22	T25 DIGITAL I/O 2 SOURCE	10.02	DRIVE RUNNING
8.23	T26 DIGITAL I/O 3 DESTINATION	6.30	RUN FORWARD
8.24	T27 DIGITAL I/O 4 DESTINATION	6.32	RUN REVERSE
8.25	T28 DIGITAL I/O 5 DESTINATION	14.05	REDUCED TORQUE
8.26	T29 DIGITAL I/O 6 DESTINATION	10.32	EXTERNAL FAULT
8.32	T25 DIGITAL I/O 2 OUTPUT SELECT	1	
8.33	T26 DIGITAL I/O 3 OUTPUT SELECT	0	
8.39	T28 & T29 DIGITAL INPUT AUTO SEL DISABLE	1	DISABLES AUTO SELECT
14.03	PID REFERENCE SOURCE	18.11	* UNUSED LOCATION
14.08	PID ENABLE	1	* ENABLE PID CIRCUIT FOR REDUCED TORQUE
14.11	PID INTEGRAL GAIN	0	* NONE
14.13	PID UPPER LIMIT	90	
14.14	PID LOWER LIMIT	30	
14.15	PID OUTPUT SCALING FACTOR	1	* SCALING
14.16	PID DESTINATION	4.07	* CURRENT LIMIT 1/2 SETTING
17.24	T6 DIGITAL INPUT 4 DESTINATION	10.33	FAULT RESET
17.48	ANALOG OUTPUT 1 SOURCE	USER SELECT	SPARE ANALOG OUTPUT
18.11	UNUSED LOCATION	32000	* FORCING VALUE FOR REDUCED TORQUE

* NOTE: PARAMETERS USED FOR REDUCED TORQUE MODE.

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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:
C	10/12/07	REVISED AS INSTALLED	LVT	YY	
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	



SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

Sht 4 of 4 C 1069060 REV. A

JOB No. 6416

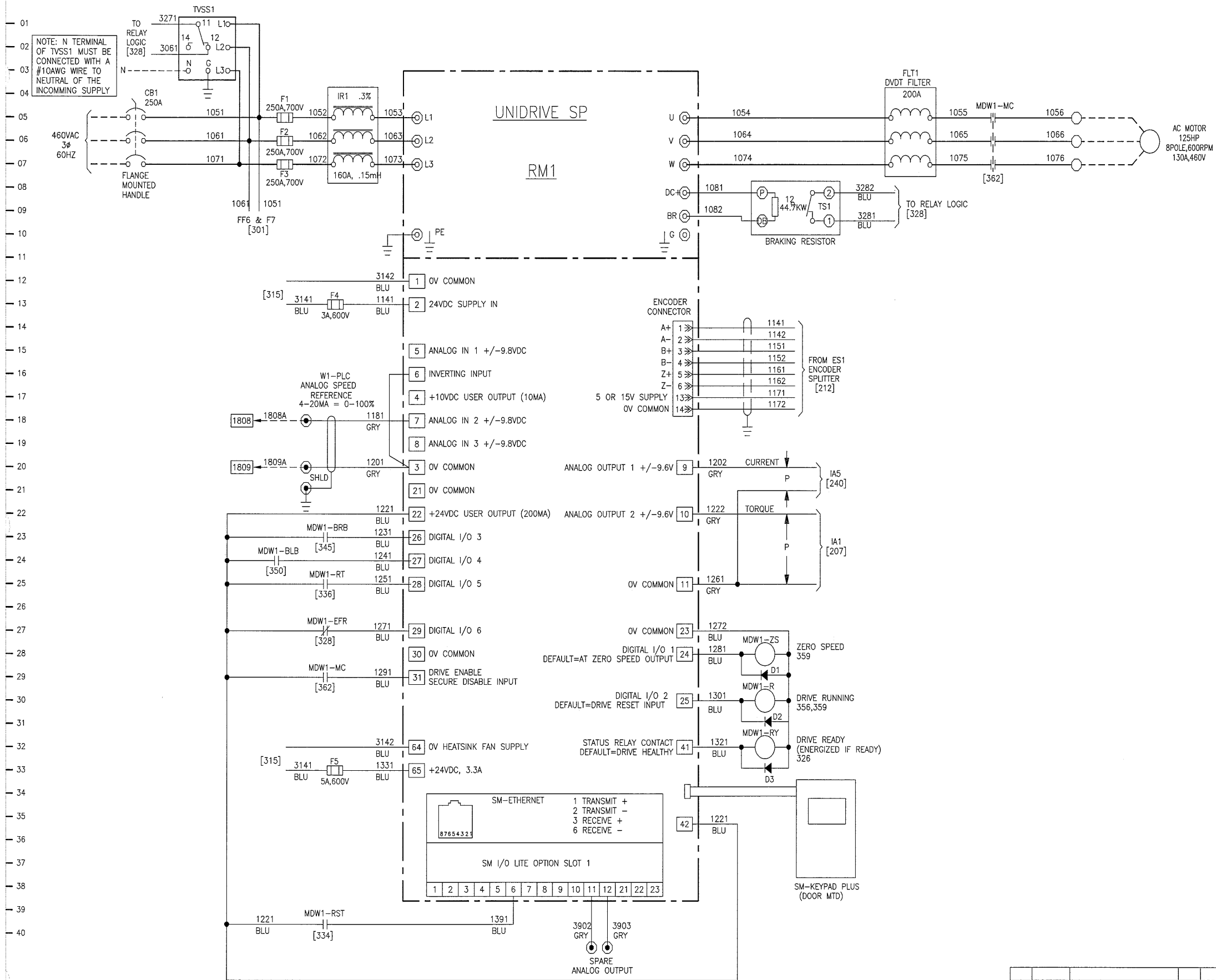


CORPORATION
7481 SOUTH SAYERS AVE
BEDFORD PARK, IL 60838

CAPE FEAR BRIDGE
LIFT DRIVE MDE2
UNIDRIVE SP RM1

DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416067

FOR: ATLANTIC ELECTRIC



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NOTE: N TERMINAL OF TVSS1 MUST BE CONNECTED WITH A #10AWG WIRE TO NEUTRAL OF THE INCOMING SUPPLY

NOTE:
SM I/O+ OPTION IS AVAILABLE TO INCREASE THE NUMBER OF DIGITAL I/O POINTS.

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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

Sheet 1 of 4 DWG NO. C 1069061 REV. A

JOB No. 6416

APPROVED BY: YY

DESIGNED BY: YY

DRAWN BY: LVT

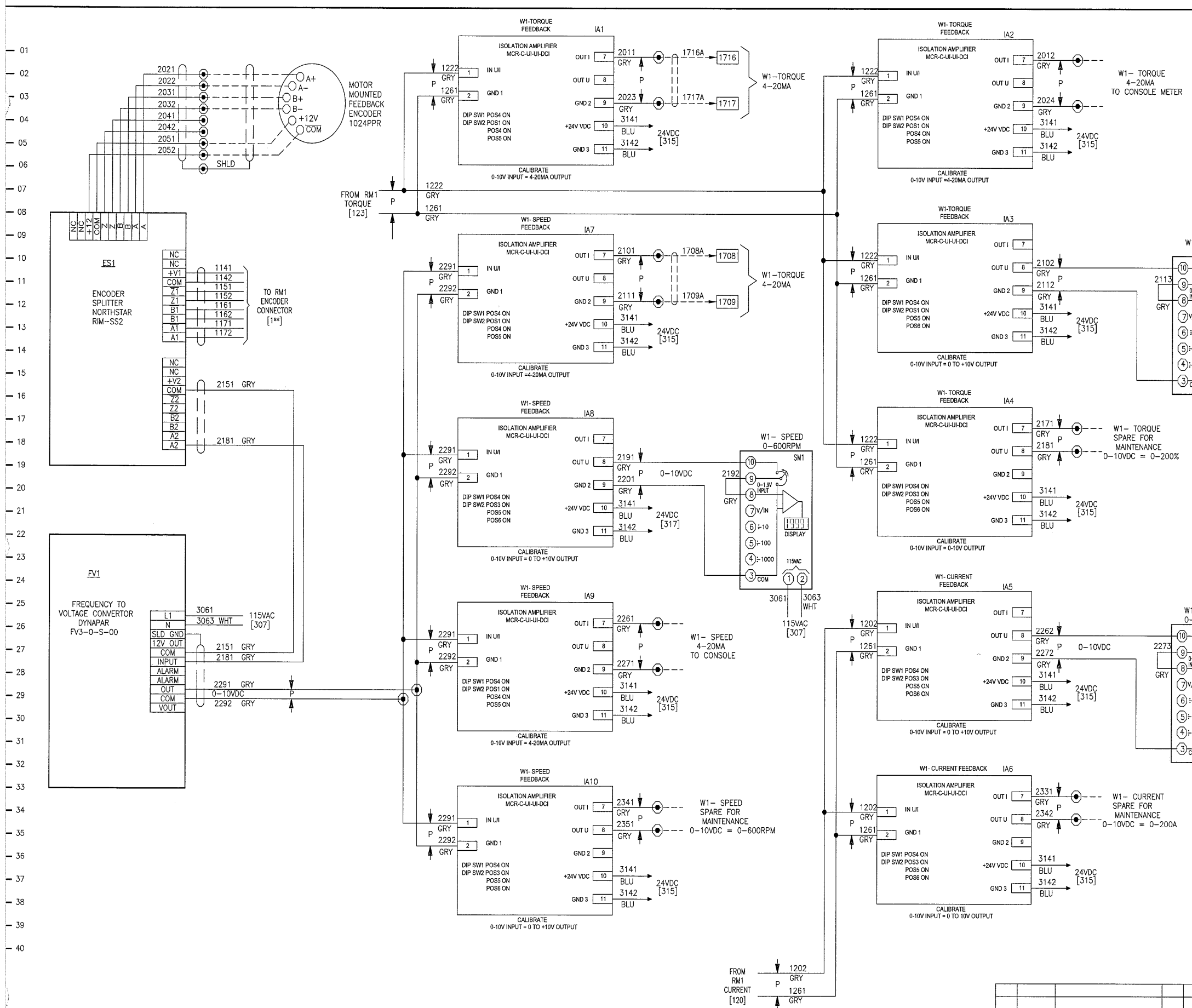
CHECKED BY: YY

DATE: 8/11/06

SCALE: NONE SIZE: D

DRAWING NO. 6416068

FOR: ATLANTIC ELECTRIC



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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:
C	10/12/07	REVISED AS INSTALLED	LVT	YY	
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

FINCOR Automation

SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHR 2 of 4 C 1069061 REV. A

JOB No. 6416

APPROVED BY: WY
DESIGNED BY: WY
DRAWN BY: LVT
CHECKED BY: WY

CORPORATION
7481 SOUTH SAYERS AVE
BEDFORD PARK, IL 60838

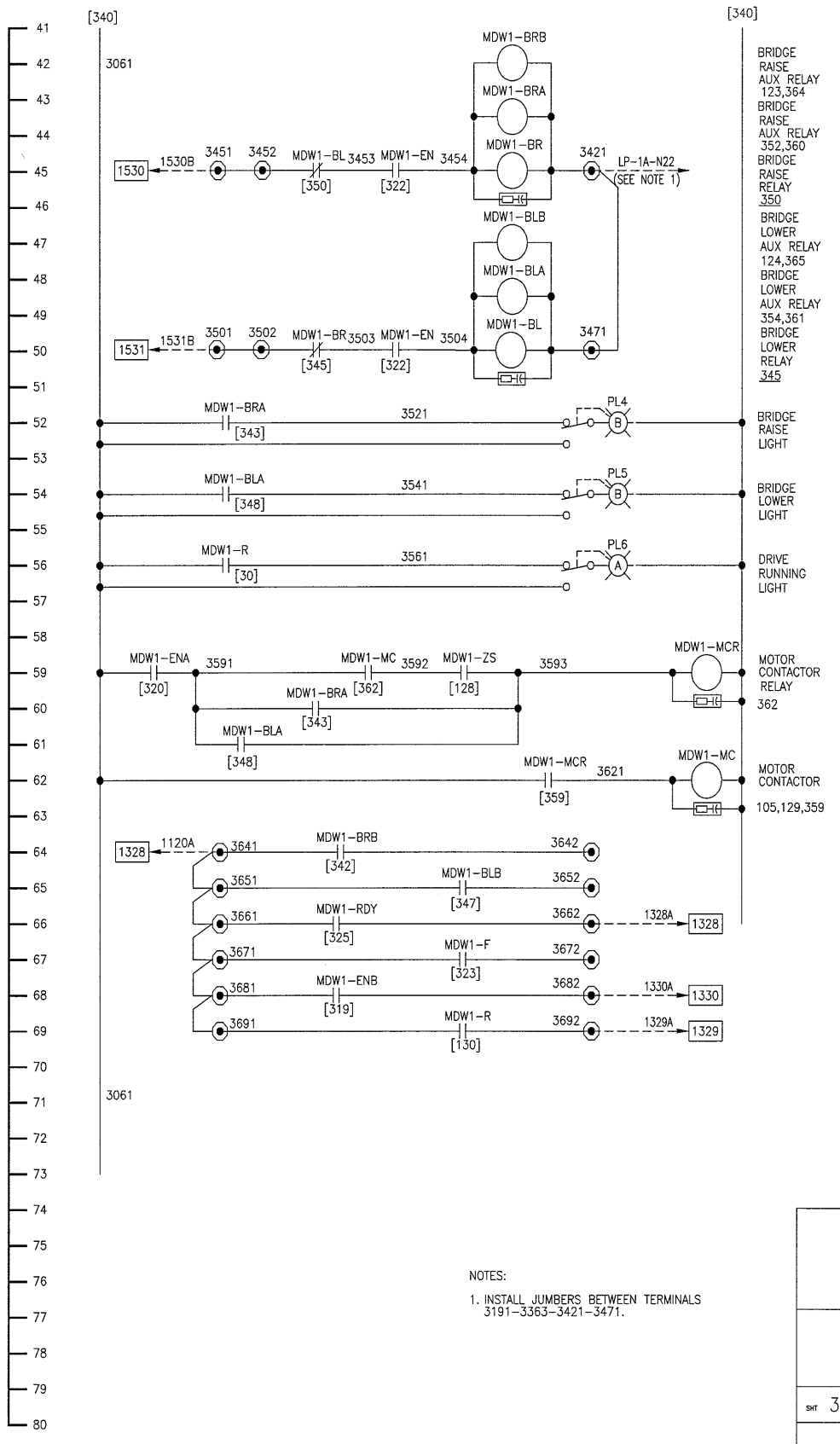
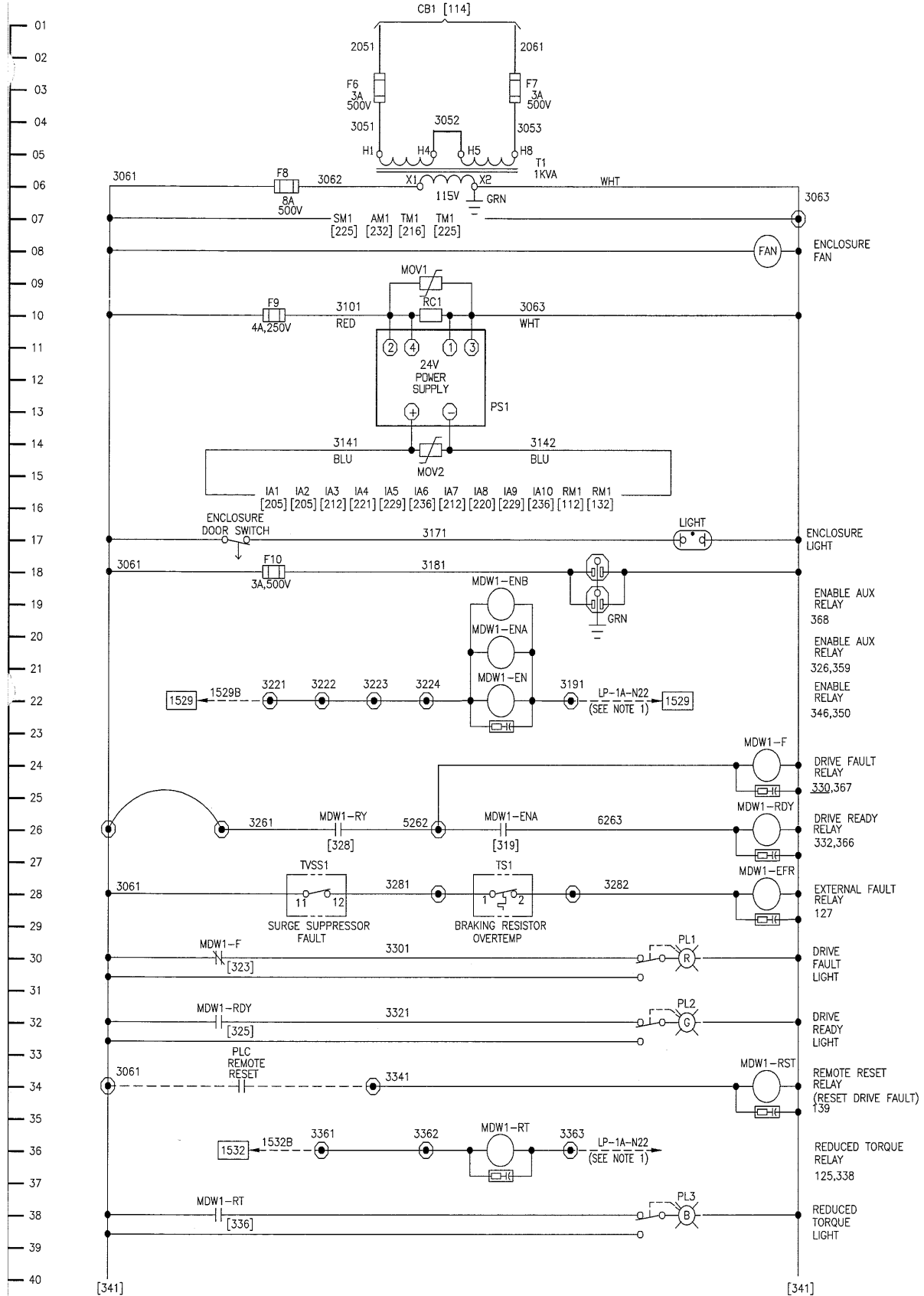
CAPE FEAR BRIDGE
LIFT DRIVE MDW1
UNDRIVE SP RM1

DATE: 8/11/06
SCALE: NONE SIZE: D

DRAWING NO. 6416069

FOR: ATLANTIC ELECTRIC

12/3/2007 1:53:35 PM



NOTES:
1. INSTALL JUMBERS BETWEEN TERMINALS 3191-3363-3421-3471.

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C		10/12/07	REVISED AS INSTALLED	LVT	VY
B		1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A		8/14/06	ISSUED FOR APPROVAL	LVT	VY
NO.	DATE	REVISIONS		DRAWN BY	CHECKED BY

FINCOR Automation

SCHEMATIC
LIFT DRIVE MDW1
FINCOR JOB NO. 124341


SHT 3 of 4	REV. C	1069061	REV. A
JOB No. 6416		APPROVED BY: VY	
CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		DESIGNED BY: VY	
CAPE FEAR BRIDGE LIFT DRIVE MDW1 UNDRIVE SP RM1		DRAWN BY: LVT	
DATE: 8/11/06		CHECKED BY: VY	
SCALE: NONE		SIZE: D	
DRAWING NO. 6416070		FOR: ATLANTIC ELECTRIC	

PARAMETER	NAME	SETTING	DESCRIPTION
0.02(1.06)	MAX REF CLAMP	600	RPM
0.03(2.11)	ACCEL RATE	0	RUN ACCEL RATE SEC/1000RPM
0.04(2.21)	DECEL RATE	0	RUN DECEL RATE SEC/1000RPM
0.15(2.04)	RAMP MODE SELECT	0	FAST
0.16(2.02)	RAMP ENABLE	0	SET TO 0 TO FOLLOW PLC RAMP
0.19(7.11)	ANALOG INPUT 2 MODE	4	4-20
0.27(3.34)	ENCODER LINES/REV	1024	PPR
0.32(11.32)	DRIVE RATED CURRENT	180	DRIVE AMPS @ 50°C
0.44(5.09)	MOTOR RATED VOLTAGE	460	VOLTS
0.46(5.07)	MOTOR RATED CURRENT	168.3	AMPS
0.48(11.31)	OP. MODE	2	VT
1.14	REFERENCE SELECTOR	2	A2.PR
3.36	ENCODER SUPPLY VOLTAGE	2	15V
3.38	ENCODER TYPE	0	AB
7.11	T7 ANALOG INPUT 2 MODE	4	4-20
7.14	T7 ANALOG INPUT 2 DESTINATION	1.37	
7.19	T9 ANALOG OUTPUT 1 SOURCE	4.02	CURRENT
7.20	T9 ANALOG OUTPUT 1 SCALING	1.7	0-10V = 0-200A
7.22	T10 ANALOG OUTPUT 2 SOURCE	4.03	TORQUE
7.23	T10 ANALOG OUTPUT 2 SCALING	0.847	0-10V = 0-200%
8.11	T24 DIGITAL I/O 1 INVERT	1	INVERT
8.21	T24 DIGITAL I/O SOURCE	10.03	ZERO SPEED
8.22	T25 DIGITAL I/O 2 SOURCE	10.02	DRIVE RUNNING
8.23	T26 DIGITAL I/O 3 DESTINATION	6.30	RUN FORWARD
8.24	T27 DIGITAL I/O 4 DESTINATION	6.32	RUN REVERSE
8.25	T28 DIGITAL I/O 5 DESTINATION	14.05	REDUCED TORQUE
8.26	T29 DIGITAL I/O 6 DESTINATION	10.32	EXTERNAL FAULT
8.32	T25 DIGITAL I/O 2 OUTPUT SELECT	1	
8.33	T26 DIGITAL I/O 3 OUTPUT SELECT	0	
8.39	T28 & T29 DIGITAL INPUT AUTO SEL DISABLE	1	DISABLES AUTO SELECT
14.03	PID REFERENCE SOURCE	18.11	* UNUSED LOCATION
14.08	PID ENABLE	1	* ENABLE PID CIRCUIT FOR REDUCED TORQUE
14.11	PID INTEGRAL GAIN	0	* NONE
14.13	PID UPPER LIMIT	90	
14.14	PID LOWER LIMIT	30	
14.15	PID OUTPUT SCALING FACTOR	1	* SCALING
14.16	PID DESTINATION	4.07	* CURRENT LIMIT 1/2 SETTING
17.24	T6 DIGITAL INPUT 4 DESTINATION	10.33	FAULT RESET
17.48	ANALOG OUTPUT 1 SOURCE	USER SELECT	SPARE ANALOG OUTPUT
18.11	UNUSED LOCATION	32000	* FORCEING VALUE FOR REDUCED TORQUE

* NOTE: PARAMETERS USED FOR REDUCED TORQUE MODE.


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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	VY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

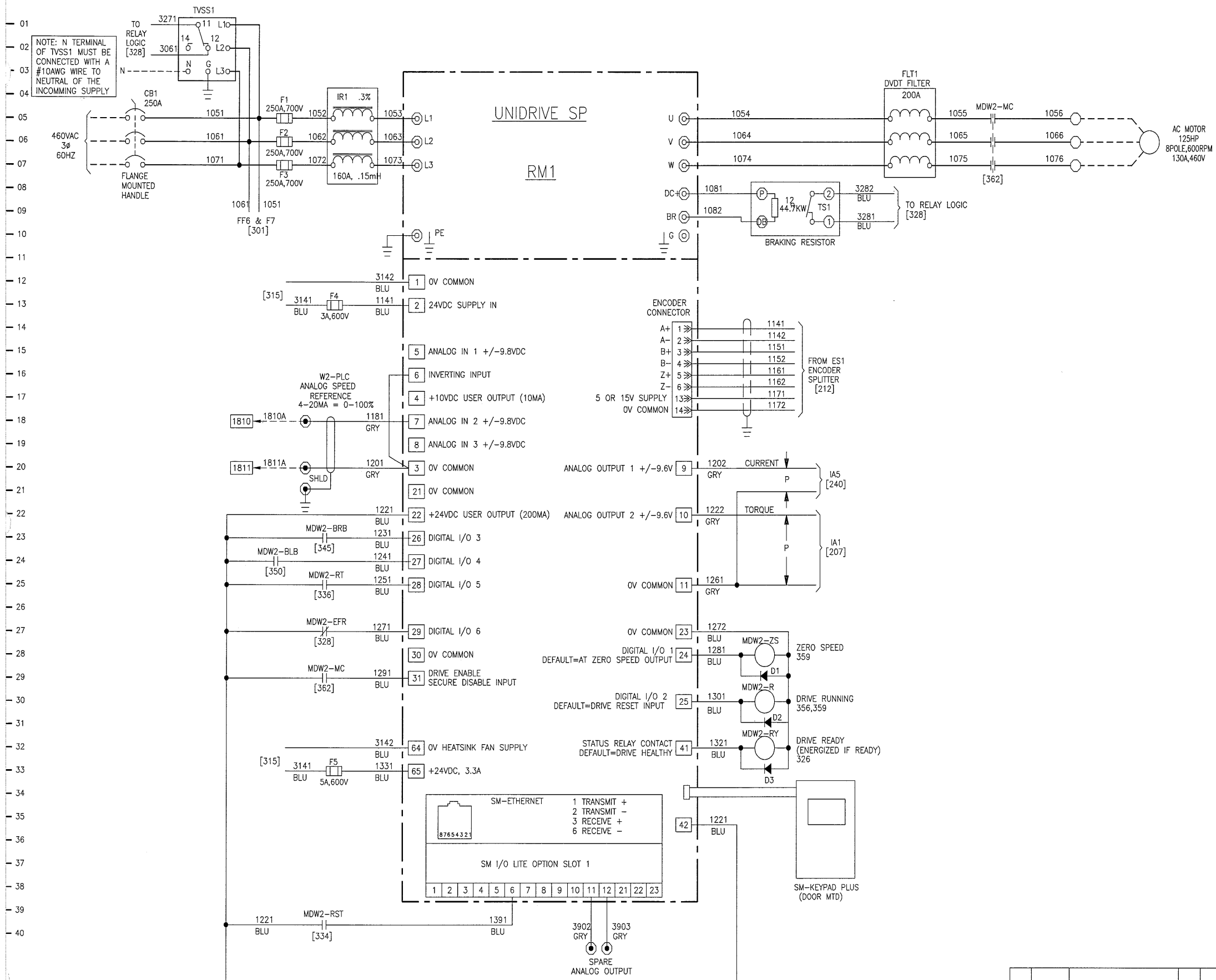


SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHT 4 of 4 DWG. SIZE C 1069061 REV. A



JOB No. 6416
APPROVED BY: VY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416071
FOR: ATLANTIC ELECTRIC



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NOTE: N TERMINAL OF TVSS1 MUST BE CONNECTED WITH A #10AWG WIRE TO NEUTRAL OF THE INCOMING SUPPLY

NOTE:
SM I/O+ OPTION IS AVAILABLE TO INCREASE THE NUMBER OF DIGITAL I/O POINTS.

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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

FINCOR
Automation

SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

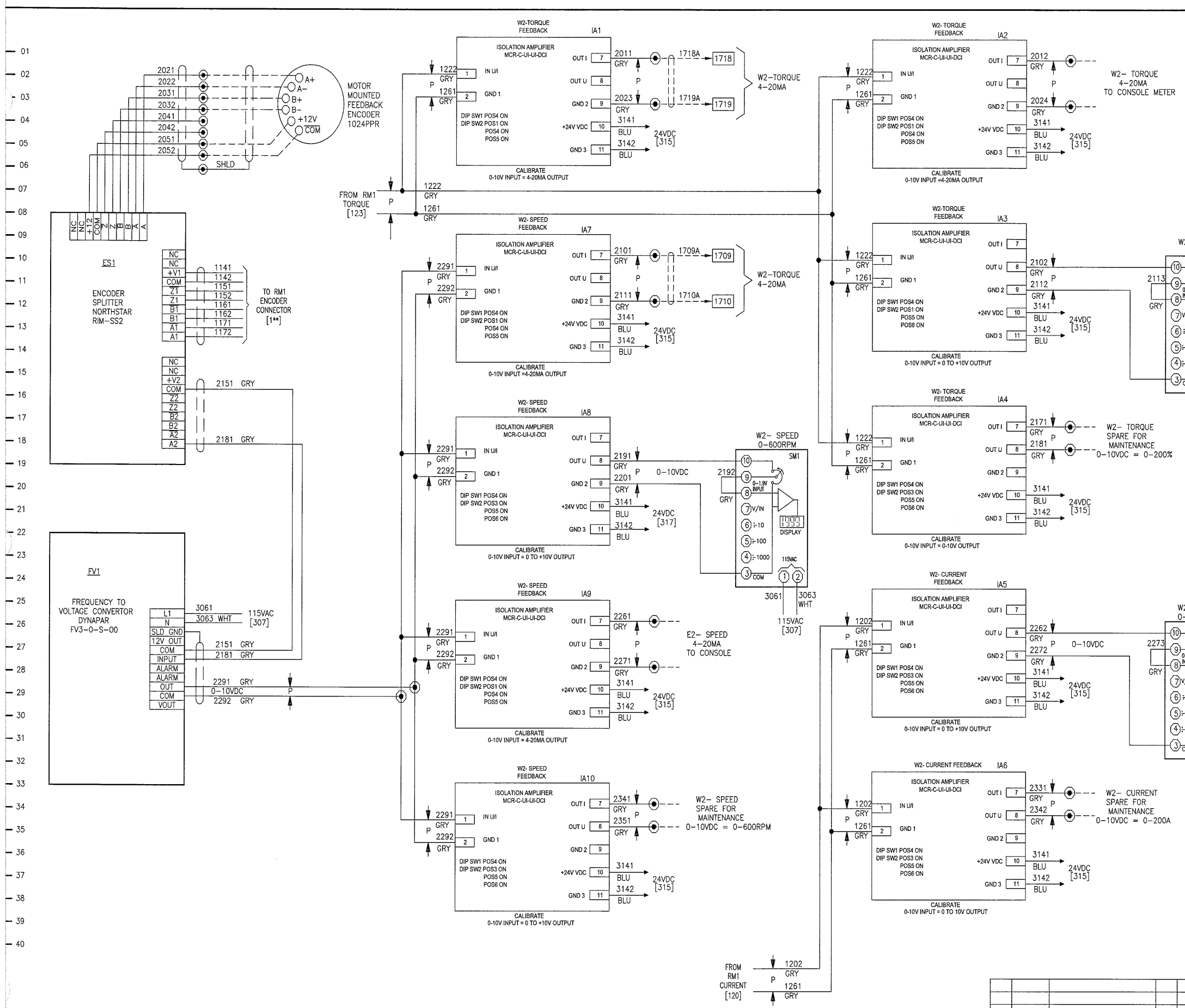
SHT 1 of 4	REV. C	JOB No. 1069062	REV. A
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PANATROL
CORPORATION
7481 SOUTH SKYWAY AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE MDW2
UNIDRIVE SP RM1

APPROVED BY: YY	DATE: 8/11/06
DESIGNED BY: YY	SCALE: NONE
DRAWN BY: LVT	SIZE: D
CHECKED BY: YY	DRAWING NO. 6416072

FOR: ATLANTIC ELECTRIC



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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR
C	10/12/07	REVISED AS INSTALLED	LVT	YY	
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

FINCOR Automation

SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHT 2 of 4 | C | 1069062 | REV. A

JOB No. 6416

PANATROL CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60658

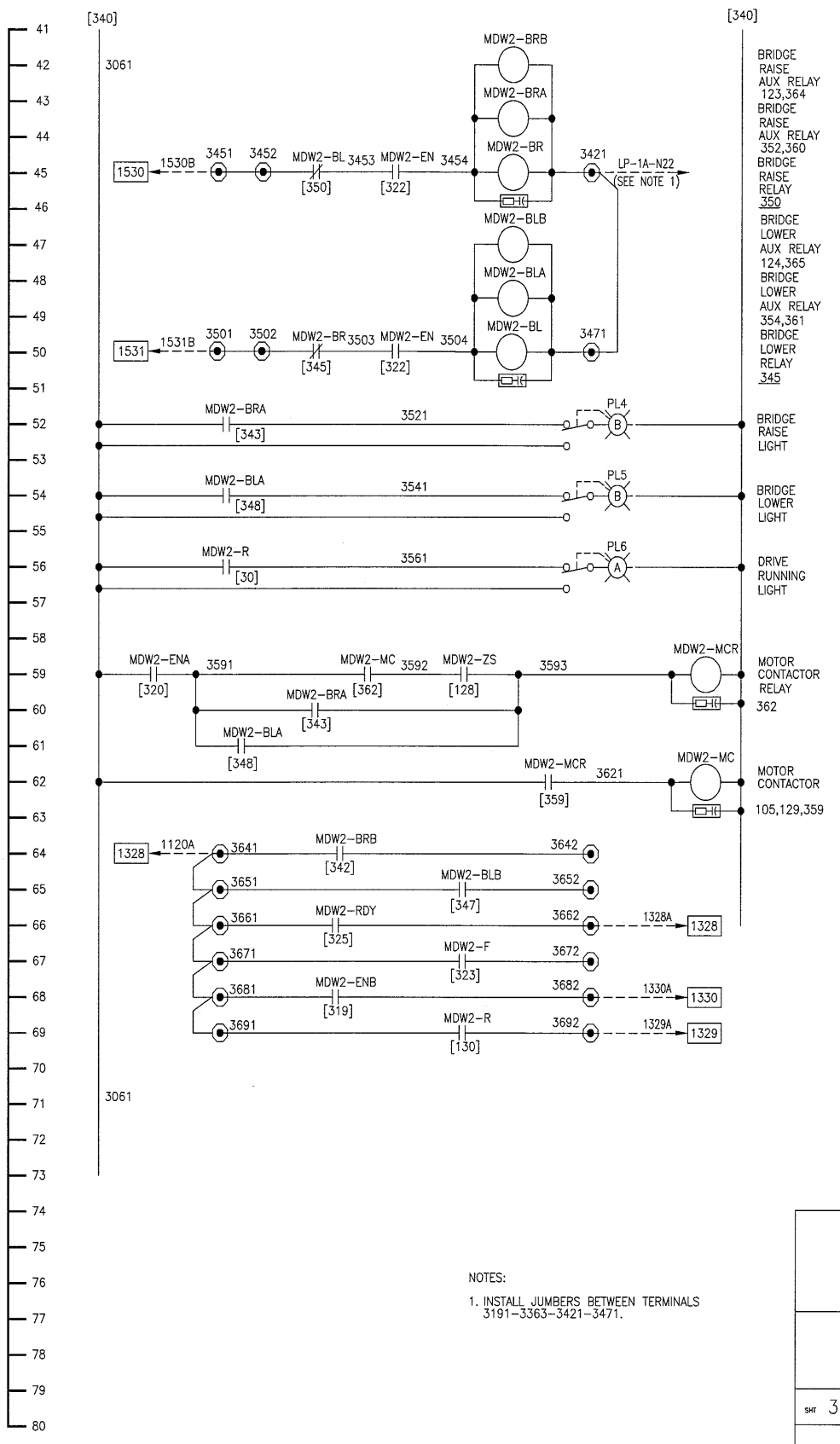
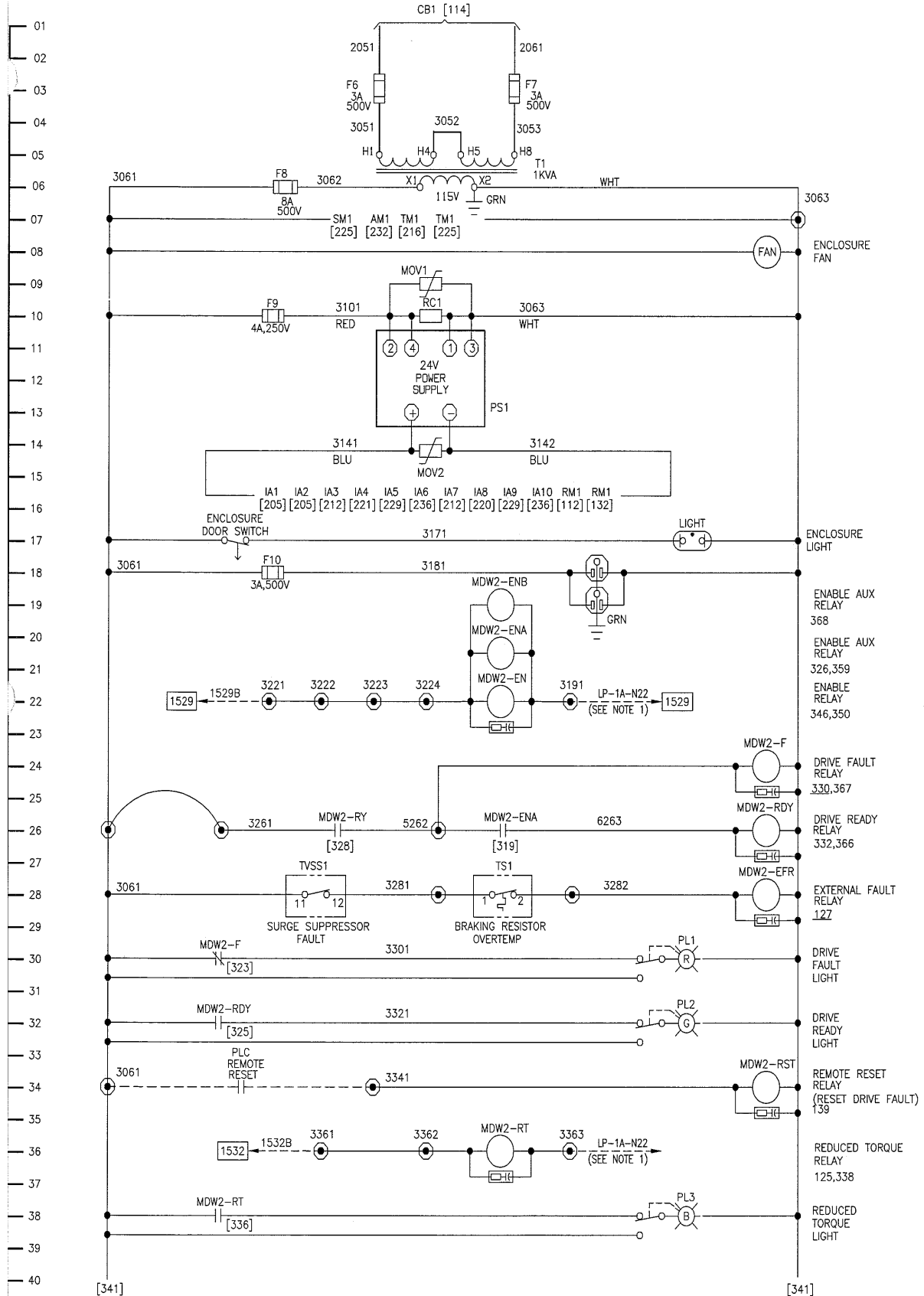
APPROVED BY: WY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY

CAPE FEAR BRIDGE
LIFT DRIVE MDW2
UNIDRIVE SP RM1

DATE: 8/11/06
SCALE: NONE | SIZE: D

DRAWING NO. **6416073**

FOR: ATLANTIC ELECTRIC



NOTES:
1. INSTALL JUMBERS BETWEEN TERMINALS 3191-3363-3421-3471.

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NO.		DATE	REVISIONS	DRAWN BY	CHECKED BY
C		10/12/07	REVISED AS INSTALLED	LVT	YY
B		1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A		8/14/06	ISSUED FOR APPROVAL	LVT	YY

FOR: ATLANTIC ELECTRIC

FINCOR Automation

SCHEMATIC
LIFT DRIVE MDW2
FINCOR JOB NO. 124341

SHT 3 of 4 C 1069062 REV. A

JOB No. 6416

APPROVED BY: YY
DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY

CORPORATION
7461 SOUTH SAYERS AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE MDW2
UNIDRIVE SP RM1

DATE: 8/11/06
SCALE: NONE SIZE: D

DRAWING NO. 6416074


12/3/2007 1:54:01 PM

PARAMETER	NAME	SETTING	DESCRIPTION
0.02(1.06)	MAX REF CLAMP	600	RPM
0.03(2.11)	ACCEL RATE	0	RUN ACCEL RATE SEC/1000RPM
0.04(2.21)	DECEL RATE	0	RUN DECEL RATE SEC/1000RPM
0.15(2.04)	RAMP MODE SELECT	0	FAST
0.16(2.02)	RAMP ENABLE	0	SET TO 0 TO FOLLOW PLC RAMP
0.19(7.11)	ANALOG INPUT 2 MODE	4	4-20
0.27(3.34)	ENCODER LINES/REV	1024	PPR
0.32(11.32)	DRIVE RATED CURRENT	180	DRIVE AMPS @ 50°C
0.44(5.09)	MOTOR RATED VOLTAGE	460	VOLTS
0.46(5.07)	MOTOR RATED CURRENT	168.3	AMPS
0.48(11.31)	OP. MODE	2	VT
1.14	REFERENCE SELECTOR	2	A2.PR
3.36	ENCODER SUPPLY VOLTAGE	2	15V
3.38	ENCODER TYPE	0	AB
7.11	T7 ANALOG INPUT 2 MODE	4	4-20
7.14	T7 ANALOG INPUT 2 DESTINATION	1.37	
7.19	T9 ANALOG OUTPUT 1 SOURCE	4.02	CURRENT
7.20	T9 ANALOG OUTPUT 1 SCALING	1.7	0-10V = 0-200A
7.22	T10 ANALOG OUTPUT 2 SOURCE	4.03	TORQUE
7.23	T10 ANALOG OUTPUT 2 SCALING	0.847	0-10V = 0-200%
8.11	T24 DIGITAL I/O 1 INVERT	1	INVERT
8.21	T24 DIGITAL I/O SOURCE	10.03	ZERO SPEED
8.22	T25 DIGITAL I/O 2 SOURCE	10.02	DRIVE RUNNING
8.23	T26 DIGITAL I/O 3 DESTINATION	6.30	RUN FORWARD
8.24	T27 DIGITAL I/O 4 DESTINATION	6.32	RUN REVERSE
8.25	T28 DIGITAL I/O 5 DESTINATION	14.05	REDUCED TORQUE
8.26	T29 DIGITAL I/O 6 DESTINATION	10.32	EXTERNAL FAULT
8.32	T25 DIGITAL I/O 2 OUTPUT SELECT	1	
8.33	T26 DIGITAL I/O 3 OUTPUT SELECT	0	
8.39	T28 & T29 DIGITAL INPUT AUTO SEL DISABLE	1	DISABLES AUTO SELECT
14.03	PID REFERENCE SOURCE	18.11	* UNUSED LOCATION
14.08	PID ENABLE	1	* ENABLE PID CIRCUIT FOR REDUCED TORQUE
14.11	PID INTEGRAL GAIN	0	* NONE
14.13	PID UPPER LIMIT	90	
14.14	PID LOWER LIMIT	30	
14.15	PID OUTPUT SCALING FACTOR	1	* SCALING
14.16	PID DESTINATION	4.07	* CURRENT LIMIT 1/2 SETTING
17.24	T6 DIGITAL INPUT 4 DESTINATION	10.33	FAULT RESET
17.48	ANALOG OUTPUT 1 SOURCE	USER SELECT	SPARE ANALOG OUTPUT
18.11	UNUSED LOCATION	32000	* FORCEING VALUE FOR REDUCED TORQUE

* NOTE: PARAMETERS USED FOR REDUCED TORQUE MODE.


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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

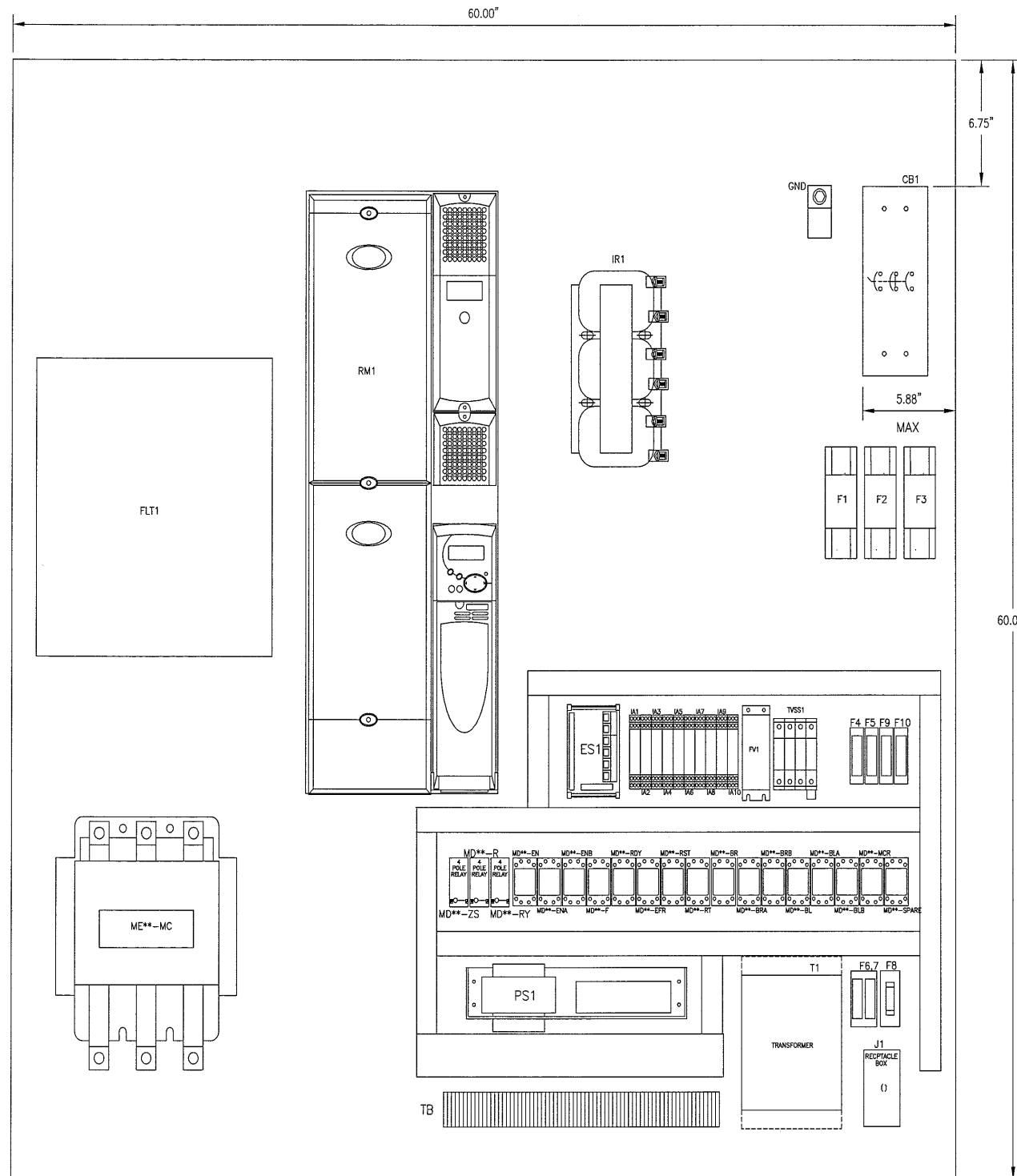


SCHEMATIC
LIFT DRIVE MDE1
FINCOR JOB NO. 124441

SHR 4 of 4 C 1069062 REV. A



JOB No. 6416
APPROVED BY: YY
DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416075
FOR: ATLANTIC ELECTRIC



CONTROL DESIGNATION	MANUFACTURER	CATALOG NO.	DESCRIPTION	QTY
MDE1, MDE2, MDW1, MDW2				
RM1	CONTROL TECHNIQUES	SP6401-NKP		1
-	CONTROL TECHNIQUES	SM-KEYPAD PLUS	DISPLAY	1
-	CONTROL TECHNIQUES	SM I/O LITE	SOFTWARE	1
-	CONTROL TECHNIQUES	SM-ETHERNET		1
CB1	GE	SFHA36AT0250	CIRCUIT BREAKER	1
F1, F2, F3	SHAWMUT	A70P250-4	250A, 700V	3
F4	SHAWMUT	ATDR3	3A, 600V	1
F5	SHAWMUT	ATDR5	5A, 600V	1
F6, F7, F10	BUSSMANN	FNQ3	3A, 500V	3
F8	BUSSMANN	FNQ8	8A, 500V	1
F9	BUSSMANN	FRN4	4A, 500V	1
IR1	MTE	RL-16002	1160A, 15MH	1
FLT1	SAFTRONICS	035-0514	DVDT FILTER	1
ME**-MC	GE	CR305G002	MAIN CONTACTOR	1
ES1	NORTH STAR	RIM SS2	ENCODER SPLITTER	1
AM1, TM1, SM1	RED LION	APL-VD-400	DIGITAL METER	3
IA1, IA2, IA3, IA4, IA5, IA6, IA7, IA8, IA9, IA10	PHOENIX CONTACT	MCR-C-UI-UI-DC1	ISO AMPLIFIER	10
ME**-MCR, ME**-EN, ME**-ENA, ME**-BR, ME**-BRA, ME**-BL, ME**-BLA	ALLEN BRADLEY	700-HA32A1-3-4	10A 2POLE RELAY	7
ME**-ENB, ME**-F, ME**-RDY, ME**-EFR, ME**-RST, ME**-RT, ME**-BRB, ME**-BLB, ME**-SPARE	ALLEN BRADLEY	700-HAX2A1-3-4	4A 2POLE RELAY	9
ME**ZS, ME**-R, ME**-RY	POTTER BRUMFIELD	KHAU-17D11-24	40MA DC COIL RELAY	3
PS1	POWER-ONE	HE24-7.2A	POWER SUPPLY	1
T1	FINCOR	103981803	TRANSFORMER	1
TB	PHEONIX CONTACT	2794770	SNUBBER TERMINALS	50
TB	PHOENIX CONTACT	2794699	SNUBBER TERMINALS	20
PL1	GE	CR104PLT32R	PILOT LIGHT RED	1
PL2	GE	CR104PLT32G	PILOT LIGHT GRN	1
PL3, PL4, PL5	GE	CR104PLT32L	PILOT LIGHT BLU	3
PL6	GE	CR104PLT32M	PILOT LIGHT AMB	1

MDE1 = GROUP 01
MDE2 = GROUP 02
MDW1 = GROUP 03
MDW2 = GROUP 04

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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

FINCOR
Automation

SCHEMATIC
LIFT DRIVES PANEL LAYOUT
FINCOR JOB NO. 124441

SHIT 1 of 2 ONE SIZE C 1069038 REV. A

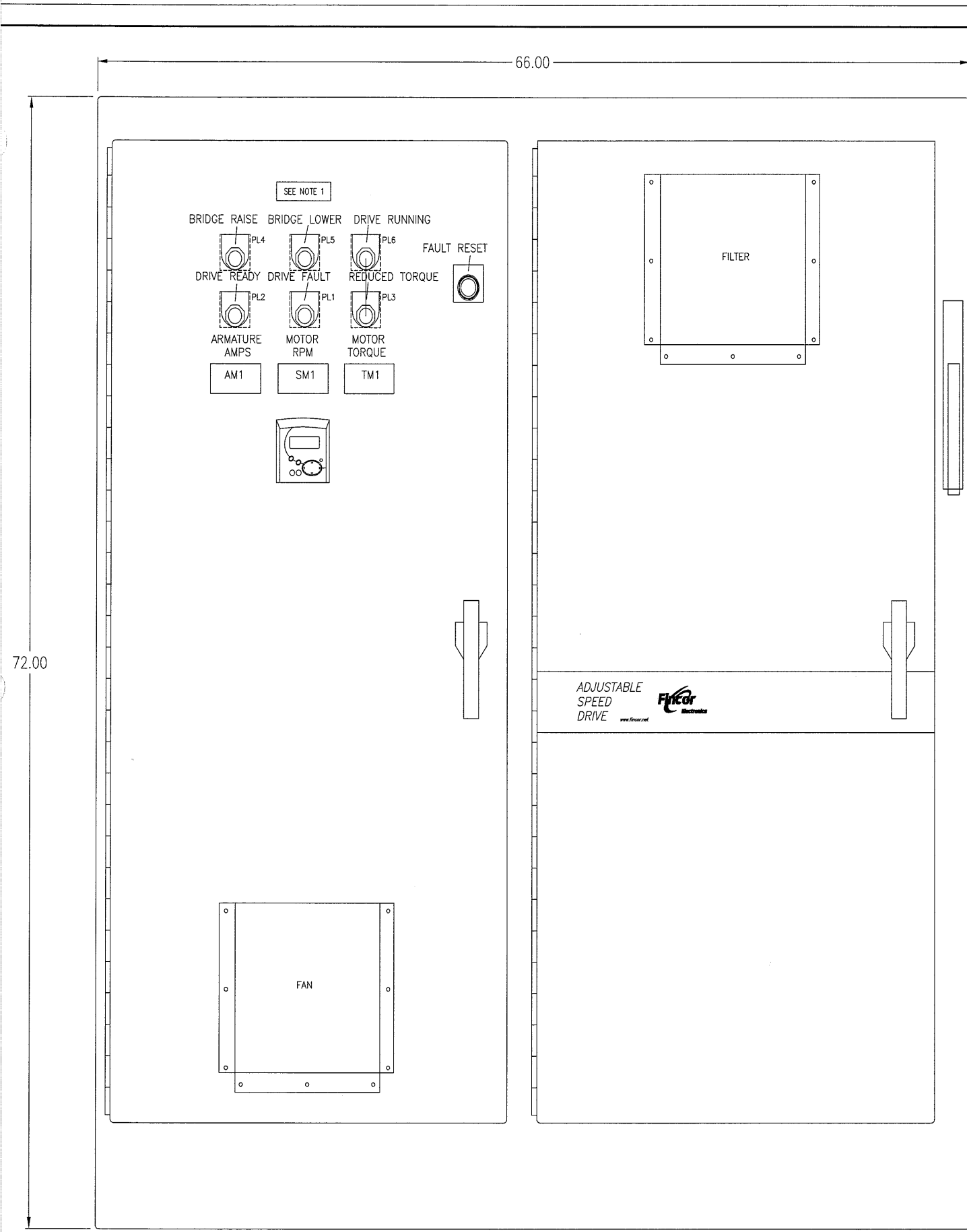
JOB No. 6416

PANATROL
CORPORATION
7491 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE UNDRIVE SP
RM1 PANEL LAYOUT

APPROVED BY: YY
DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416076

FOR: ATLANTIC ELECTRIC



CONTROL ENCLOSURE
NEMA 12 VENTILATED (WITH FILTERS)
FLOOR MOUNTED
18" DEEP

NOTES:
1. LEGEND PLATE
MDE1 GROUP 01
MDE2 GROUP 02
MDW1 GROUP 03
MDW2 GROUP 04

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FINCOR
Automation

SCHEMATIC
LIFT DRIVES ENCLOSURE LAYOUT
FINCOR JOB NO. 124441

SHR 2 of 2	REV. C	1069038	REV. A
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JOB No. 6416

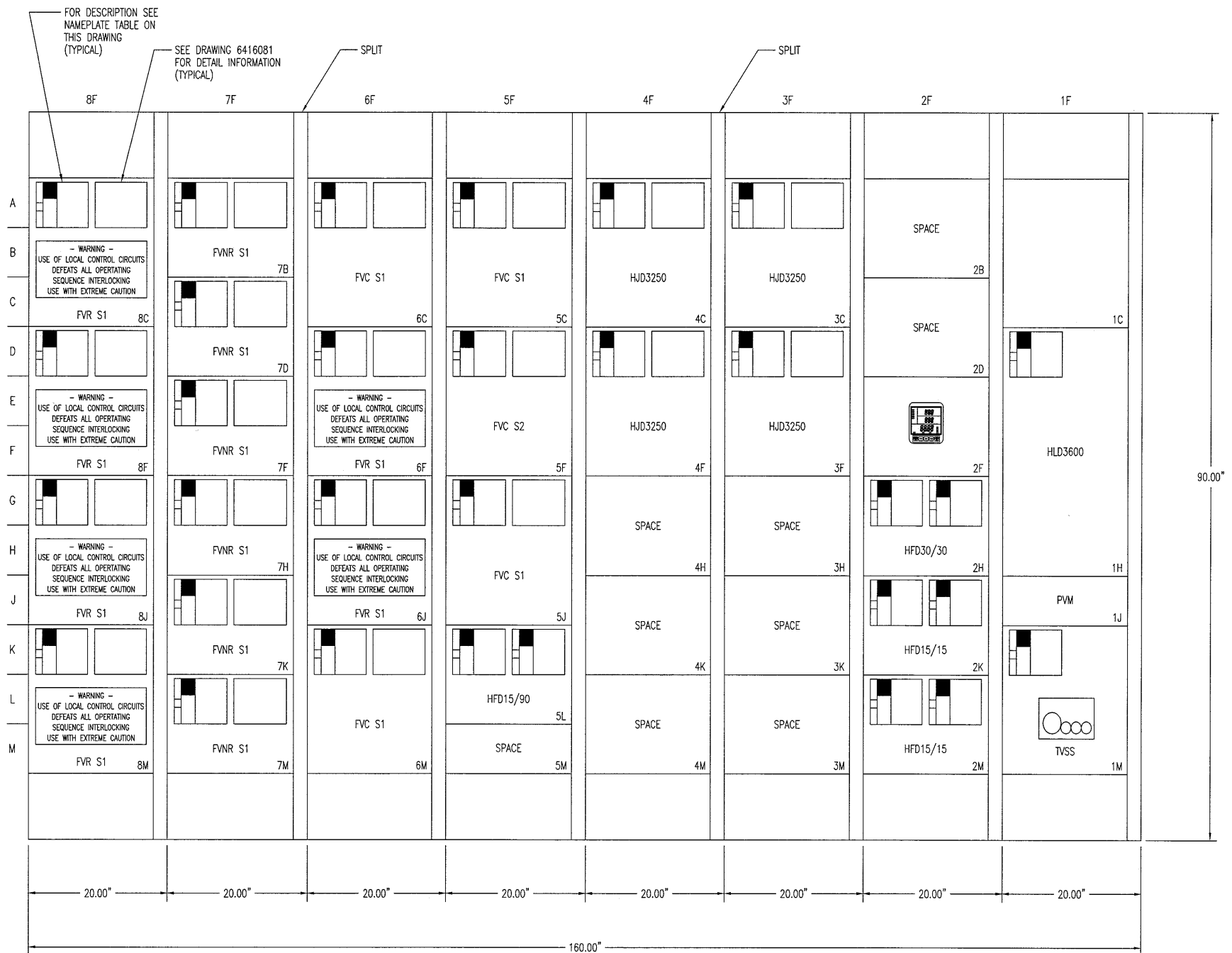
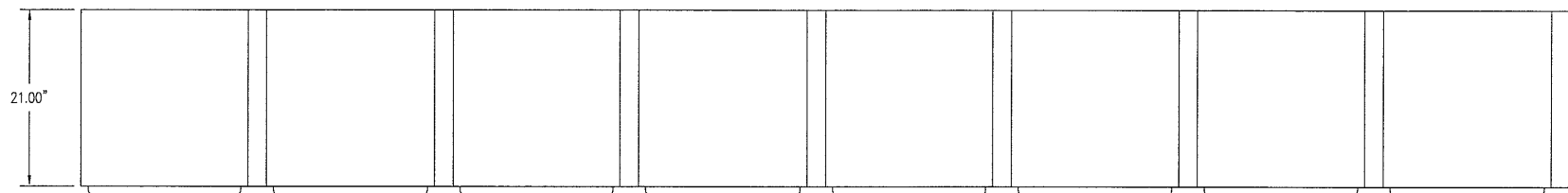
PANATROL
CORPORATION
7481 SOUTH SIXTH AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
LIFT DRIVE UNIDRIVE SP
RM1 ENCLOSURE LAYOUT

DATE: 8/11/06
SCALE: NONE
SIZE: D
DRAWING NO. 6416077

FOR: ATLANTIC ELECTRIC

LOCATION	DESCRIPTION	LOCATION	DESCRIPTION
5C	HEATING PANEL HP-1	1C	CURRENT TRANSFORMER
5F	HEATING PANEL HP-1A	1H	MAIN INCOMING POWER
5J	HEATING PANEL HP-2	1J	VOLTAGE MONITOR
5LL	LIGHTING PANEL LP-2	1M	TVSS CPS-400KA DISPLAY
		2B	SPARE
5LR	LIGHTING PANEL LP-1A/B	2D	SPARE
		2F	POWER MONITOR
6C	WEST UNIT HEATER	2HL	WEST AUXILIARY DRIVE
6F	EAST SPAN LOCK	2HR	EAST AUXILIARY DRIVE
6J	WEST SPAN LOCK	2KL	WEST TOWER ELEVATOR
6M	EAST UNIT HEATER	2KR	EAST TOWER ELEVATOR
7B	EAST MOTOR BRAKE MOBE	2ML	LIGHTING PANEL LP-3
7D	NORTHEAST MACHINERY BRAKE MABE1	2MR	SPARE
7F	SOUTHEAST MACHINERY BRAKE MABE2	3C	NORTHEAST DRIVE E1
		3F	SOUTHEAST DRIVE E2
7H	WEST MOTOR BRAKE MOBW	3H	SPARE
		3M	SPARE
7K	NORTHWEST MACHINERY BRAKE MABW1	4C	NORTHWEST DRIVE W1
		4F	SOUTHWEST DRIVE W2
8C	EAST TRAFFIC GATE	4H	SPARE
		4K	SPARE
8F	WEST TRAFFIC GATE	4M	SPARE
8J	EAST BARRIER GATE		
8M	WEST BARRIER GATE		



NOTES:

- NAMEPLATES SHALL BE WHITE WITH BLACK LETTERING.
- SAFETY PLATES SHALL BE RED WITH WHITE LETTERING.
- TEXT SHALL BE 1/4" HIGH.
- SHOP MODIFICATIONS WILL BE PERFORMED TO MEET NEMA CLASS 2 TYPE C REQUIREMENTS.

-H FREEDOM MCC CONSTRUCTION DETAILS

- ENCLOSURE IS INDUSTRY STANDARD NEMA 12 DUST TIGHT.
- ENCLOSURE PAINTED ANSI 61 GRAY EXTERIOR, WHITE INTERIOR.
- MAIN INCOMING BREAKER - 800A FRAME, 600A TRIP
- MAIN HORIZONTAL BUS RATING - 600A, 65K RMS SYMMETRICAL BRACING
- VERTICAL BUS RATINGS - STRUCTURES 3,4 - 600A
- STRUCTURES 2,5,6,7,8 - 300A, STRUCTURE 1 - NONE
- GROUND BUS SIZE - .25" X 1.0", 300A RATED
- HORIZONTAL FULL LENGTH NEUTRAL BUS RATING - 300A
- HORIZONTAL, VERTICAL, AND GROUND BUSES SHALL BE TIN PLATED COPPER.
- HEAT SHRINK WRAP INSULATION SUPPLIED ON NEUTRAL BUS.

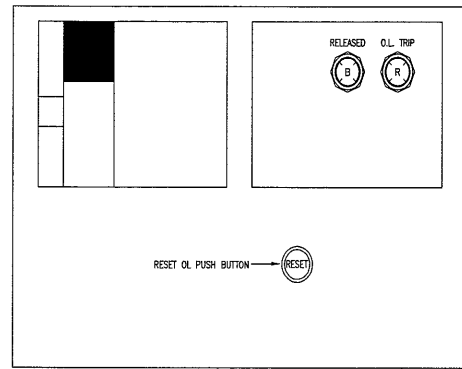
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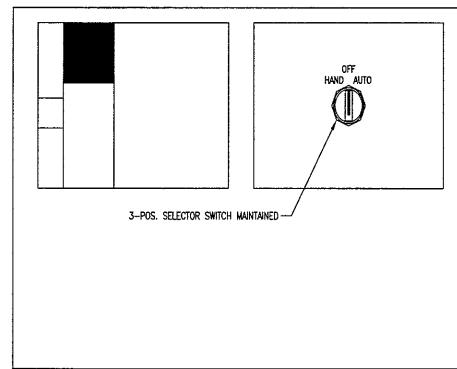
PANATROL CORPORATION
 7481 SOUTH SAFFRE AVE.
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 MCC-1 MOTOR CONTROL CENTER
 LAYOUT AND DESIGNATION

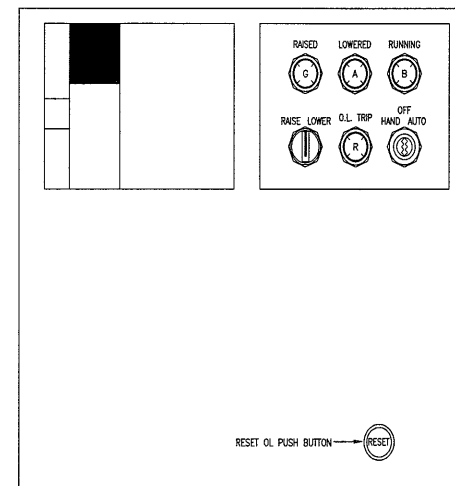
JOB No. 6416
 APPROVED BY: WY
 DESIGNED BY: WY
 DRAWN BY: LVT
 CHECKED BY: WY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416080
 FOR: ATLANTIC ELECTRIC



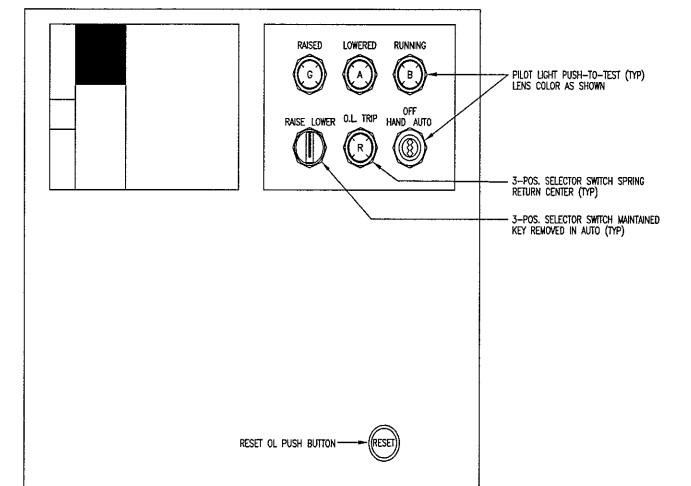
TYPICAL FOR MCC BUCKETS
7B, 7D, 7F, 7H, 7K, 7M



TYPICAL FOR MCC BUCKETS
5C, 5F, 5J, 6C, 6M



TYPICAL FOR MCC BUCKETS
8C, 8F, 8J, 8M



TYPICAL FOR MCC BUCKETS
6F, 6J

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PANATROL CORPORATION
7481 SOUTH SAYSBIE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
MCC-1 MOTOR CONTROL CENTER
LIGHT AND SWITCH LAYOUT

FOR:
ATLANTIC ELECTRIC

JOB No. 6416

APPROVED BY: YY

DESIGNED BY: YY

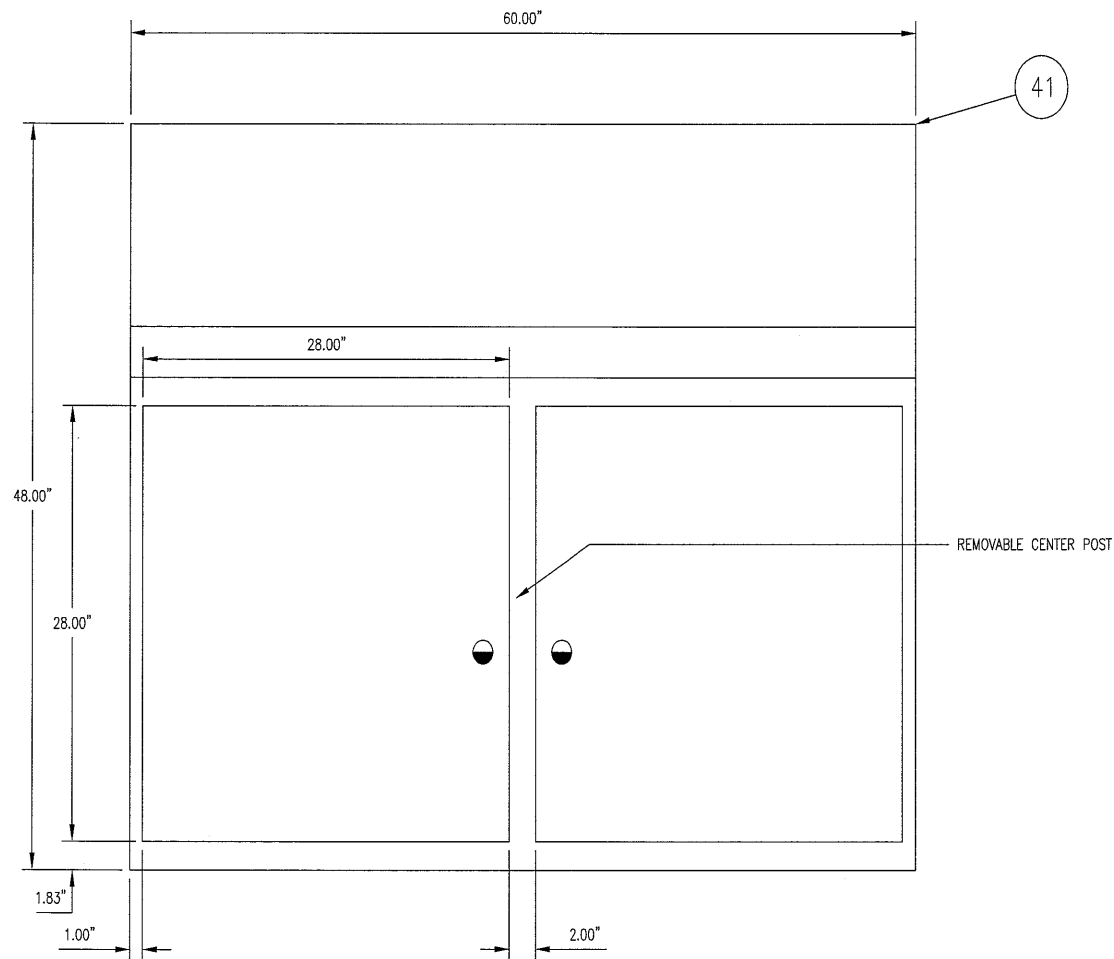
DRAWN BY: LVT

CHECKED BY: YY

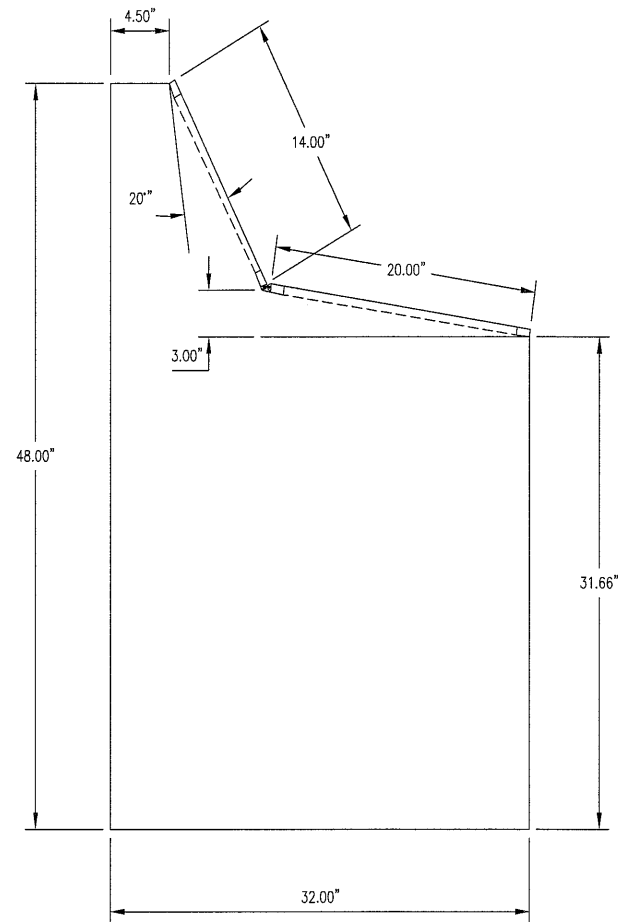
DATE: 8/11/06

SCALE: NONE SIZE: D

DRAWING NO. 6416081



FRONT VIEW



SIDE VIEW

BRIDGE CONTROL CONSOLE

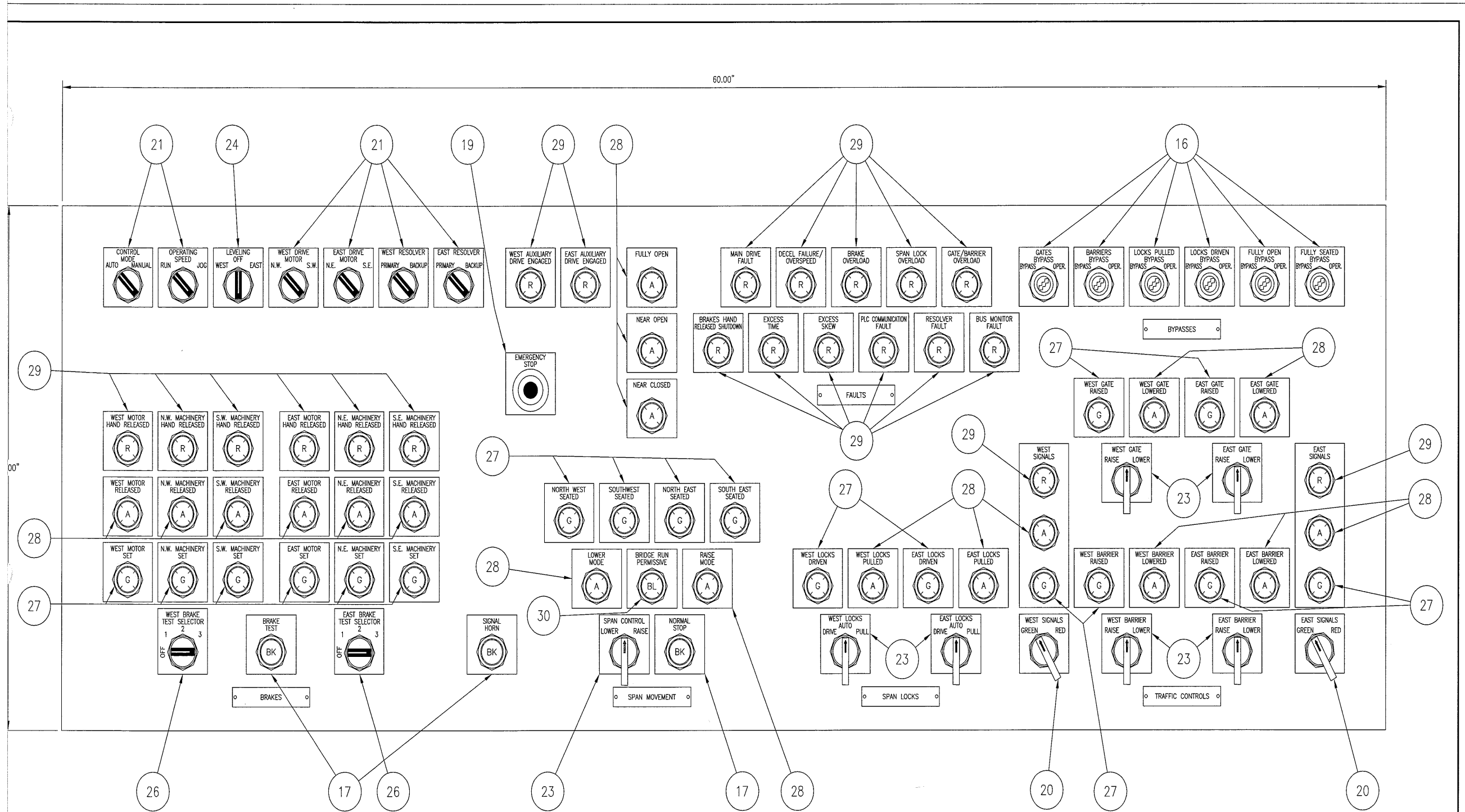
NOTES:

- CONTROL CONSOLE TO HAVE CONTINUOUS PIANO TYPE HINGE ALONG DOORS AND BETWEEN CONTROL AND INDICATOR PANELS.
- CONTROL CONSOLE SHALL BE SPLIT FOR SHIPPING AND INSTALLATION. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO ENSURE THE CONSOLE SECTIONS ARE SIZED TO ALLOW ENTRANCE INTO THE OPERATORS HOUSE.
- CONTROL CONSOLE IS 2 INCHES TALLER TO ACCOMMODATE DOOR SWING FOR CONTROL PANEL AND INDICATOR PANEL.
- CONSOLE TOPS WILL BE 10 GAGE STAINLESS STEEL WITH BRUSHED SATIN FINISH.

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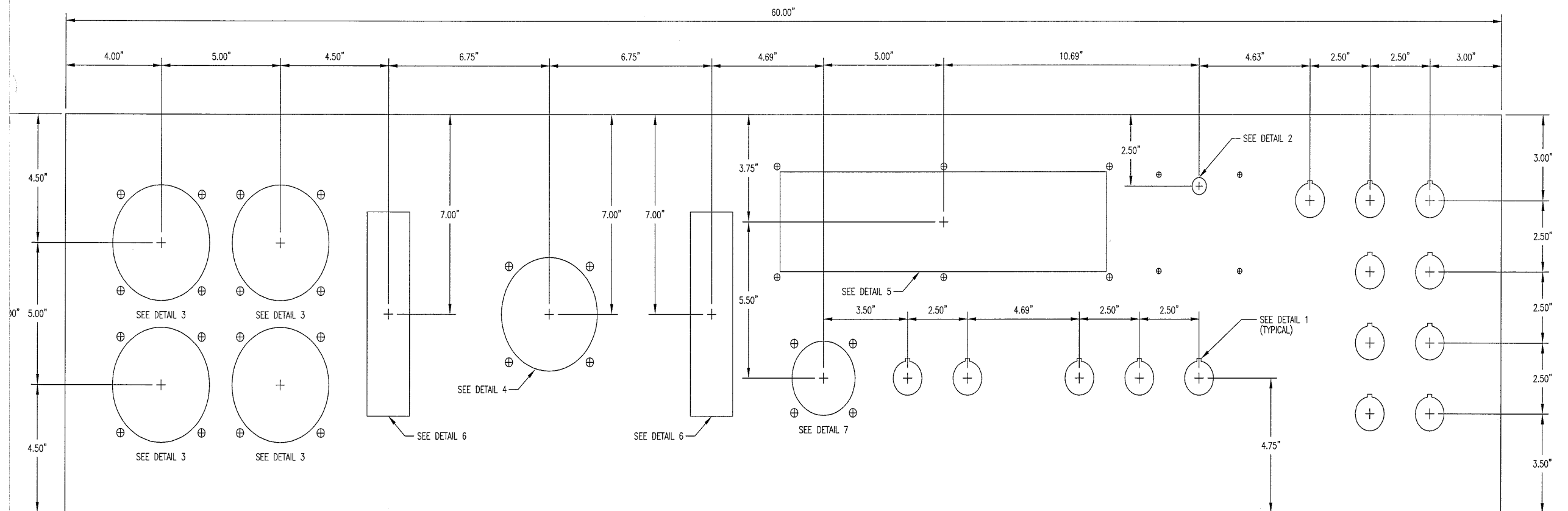
 CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60658		JOB No.	6416
		APPROVED BY:	YY
		DESIGNED BY:	YY
		DRAWN BY:	LVT
		CHECKED BY:	YY
		DATE:	8/11/06
		SCALE:	1=6
		SIZE:	D
		DRAWING NO.	6416090
		FOR:	ATLANTIC ELECTRIC



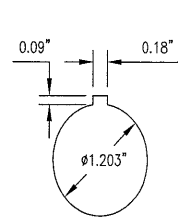
BRIDGE LOWER CONTROL CONSOLE

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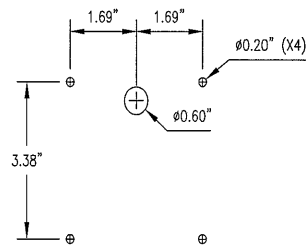
										JOB No. 6416 APPROVED BY: VY DESIGNED BY: VY DRAWN BY: LVT CHECKED BY: VY	
C	10/12/07	REVISED AS INSTALLED	LVT	VY	CORPORATION 7481 SOUTH SAYERS AVE BEDFORD PARK, IL 60638		CAPE FEAR BRIDGE LOWER CONTROL CONSOLE LAYOUT		DATE: 8/11/06 SCALE: NONE SIZE: D		
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY					DRAWING NO. 6416091		
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY					FOR: ATLANTIC ELECTRIC		
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY							



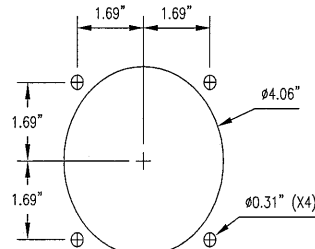
BRIDGE UPPER CONTROL CONSOLE



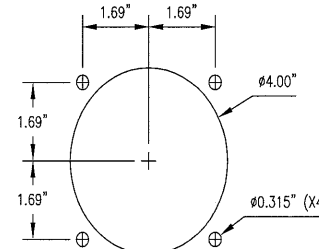
DETAIL 1



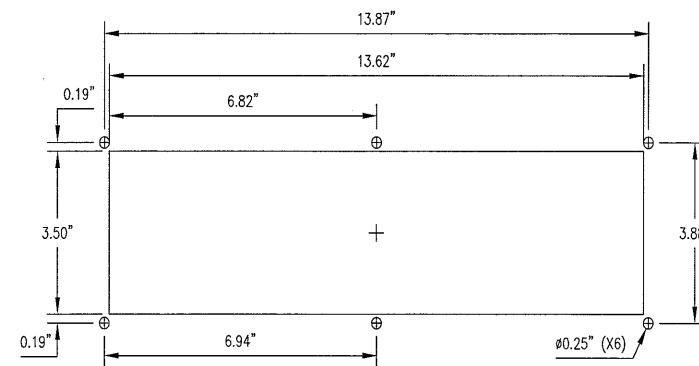
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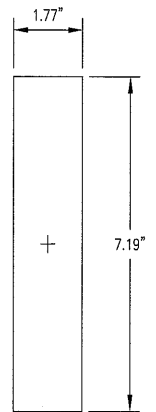
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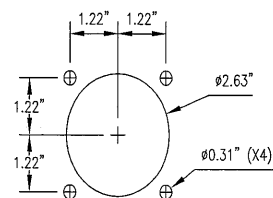
DETAIL 4



DETAIL 5



DETAIL 6



DETAIL 7

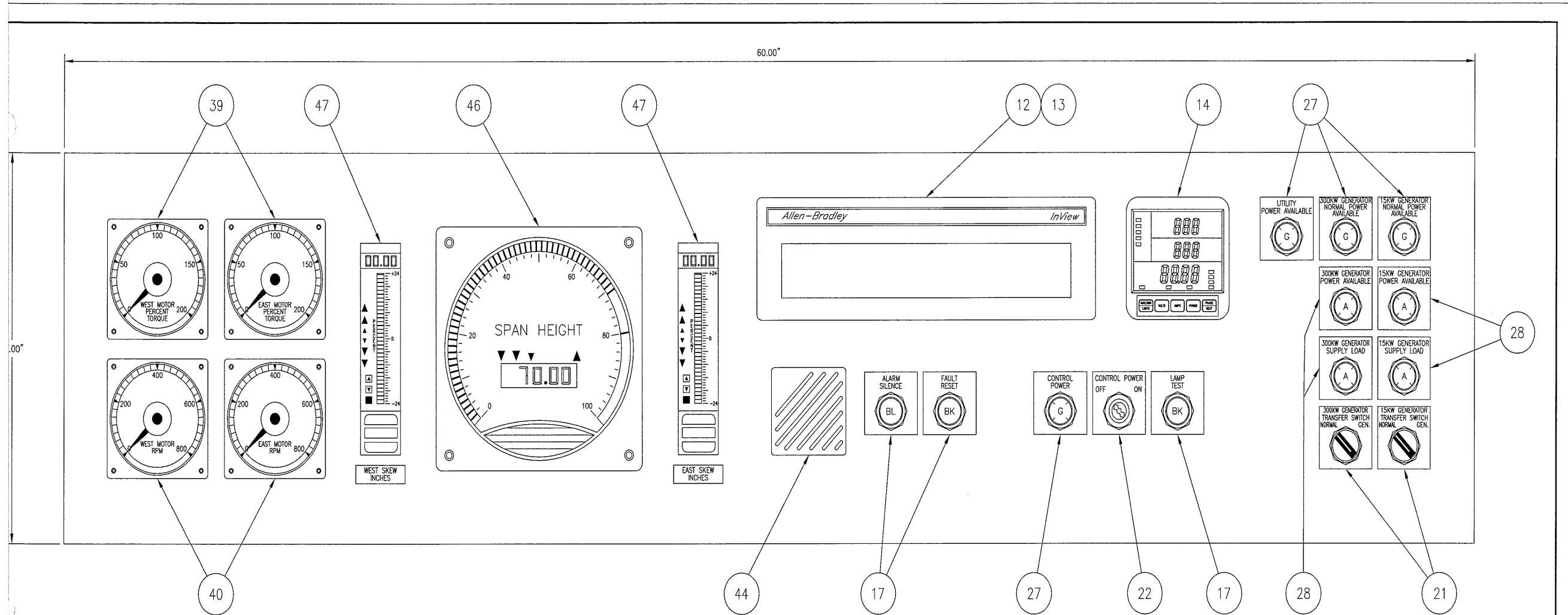
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PANATROL CORPORATION
 7481 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 UPPER CONTROL CONSOLE
 DIMENSION LAYOUT

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416092A
 FOR: ATLANTIC ELECTRIC



BRIDGE UPPER CONTROL CONSOLE

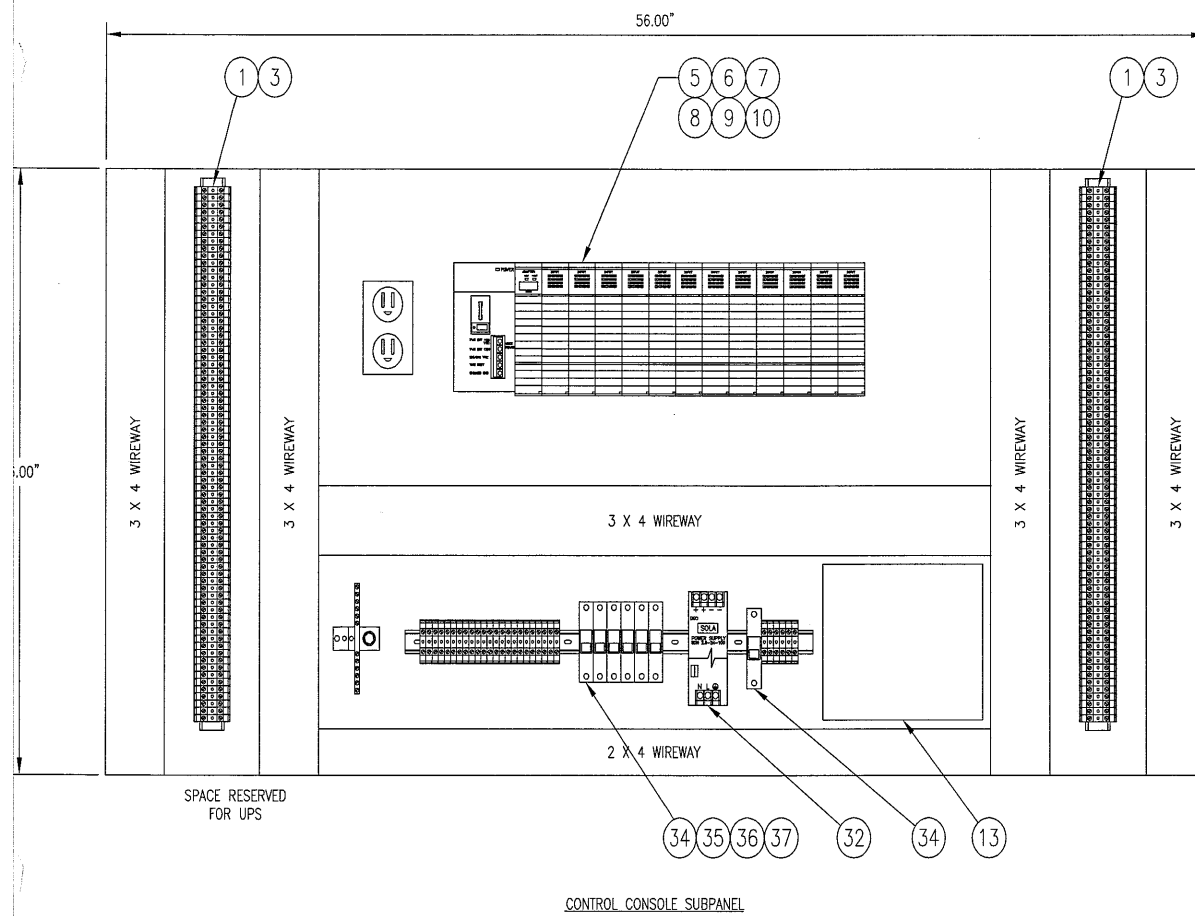
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A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 UPPER CONTROL CONSOLE
 LAYOUT

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: NONE SIZE: 0
 DRAWING NO. 6416092
 FOR: ATLANTIC ELECTRIC



TERMINAL BLOCK DESCRIPTION

1116A	2305A	2508A
1116B	2306A	2509A
2104A	2307A	2510A
2105A	2308A	2511A
2106A	2309A	2512A
2107A	2310A	2514A
2108A	2311A	2515A
2109A	2312A	2516A
2110A	2314A	2517A
2111A	2315A	2518A
2112A	2316A	2519A
2113A	2317A	2520A
2114A	2318A	2521A
2115A	2319A	
2116A	2320A	LP-1A-NXX
2117A	2321A	LP-1A-NXX
2118A	2329A	P-UPS-H
2119A	2330A	P-UPS-H
2128A	2331A	P-UPS-H
2129A	2332A	P-UPS-H
2130A	2333A	P-UPS-N
2131A	2334A	P-UPS-N
2132A	2335A	P-UPS-N
2133A	2336A	P-UPS-N
2134A	2338A	
2135A	2339A	+24V
2136A	2340A	+24V
2137A	2341A	+24V
2138A	2342A	+24V
2139A	2343A	-24COM
2140A	2344A	-24COM
2141A	2345A	-24COM
2142A	2405A	-24COM
2143A	2406A	
2204A	2407A	
2205A	2408A	
2206A	2409A	
2207A	2410A	
2208A	2411A	
2209A	2412A	
2210A	2414A	
2211A	2415A	
2212A	2416A	
2213A	2417A	
2214A	2418A	
2215A	2419A	
2216A	2420A	
2217A	2421A	
2218A	2429A	
2219A	2430A	
2228A	2431A	
2229A	2432A	
2230A	2433A	
2231A	2434A	
2232A	2435A	
2233A	2436A	
2234A	2438A	
2235A	2439A	
2236A	2440A	
2237A	2441A	
2238A	2442A	
2239A	2443A	
2240A	2444A	
2241A	2445A	
2242A	2505A	
2243A	2506A	
	2507A	

B } CABLE 2D-2E
C }
D }

LIGHT -H
LIGHT-N
GEN-1H
NORM-1
GEN-1H
GEN-2H
NORM-2
GEN-2

BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	4	1492-EB10	ALLEN-BRADLEY	END BARRIER FOR W10
2	2	1492-SMBX12	ALLEN-BRADLEY	TERMINAL MRKG STRIP 100 CARD(FOR W10 & FB)
3	200	1492-W10	ALLEN-BRADLEY	T.B. 50A GRAY 600VAC/DC
4				
5	1	0	ALLEN-BRADLEY	CHASSIS 13 SLOT
6	1	1747-ASB	ALLEN-BRADLEY	REMOTE I/O ADAPTER
7	4	1746-IA16	ALLEN-BRADLEY	INPUT MODULE 16PT 120VAC
8	5	1746-OW16	ALLEN-BRADLEY	OUTPUT MODULE RELAY 16PT
9	2	1746-NO4I	ALLEN-BRADLEY	(4) ANALOG CURRENT OUTPUT FOR PROG. CTRLR 0-20mA
10	1	1746-P2	ALLEN-BRADLEY	POWER SUPPLY SLC RACK MOUNT 120/240 VAC IN 5A@5V .96A@24V OUT
11				
12	1	2706-P22R	ALLEN-BRADLEY	DL40 PLUS MESSAGE DISPLAY 2 LINE REMOTE I/O PORT(REPLACES 2706-LV2R)
13	1	2706-PRIO	ALLEN-BRADLEY	REMOTE I/O COMMUNICATION MODULE FOR 2706-P22R DIN RAIL 24VDC UNIT
14	1	P-34	ELECTRO INDUSTRIES	POWER MONITOR DISPLAY
15				
16	6	800T-H42A	ALLEN-BRADLEY	SELECTOR SWITCH 2-POS KEYED SPRING RETURN 2NO-2NC
17	6	800T-A2B	ALLEN-BRADLEY	PB BLACK FLUSH HEAD 2NO-2NC
18				
19	1	800T-FXPF16RA1	ALLEN-BRADLEY	PUSH PULL 2-POS. ILLUM. 120V AC RED
20	2	800T-H17B	ALLEN-BRADLEY	SELECTOR SWITCH 2 POSITION MAINTAINED GLOVE
21	8	800T-H2B	ALLEN-BRADLEY	SELECTOR SW.2 POS.STD.KNOB 2NO 2NC MAINTAINED
22	1	800T-H33A	ALLEN-BRADLEY	SELECTOR SWITCH KEYED 2 POS
23	7	800T-J20B	ALLEN-BRADLEY	SELECTOR SWITCH 3-POS SPRING RTN BOTH KNOB LEVER 2NO-2NC
24	1	800T-J2B	ALLEN-BRADLEY	SELECTOR SWITCH 3-POS MAINTAINED STD KNOB 2NO-2NC
25				
26	2	800T-N2KF4B	ALLEN-BRADLEY	SELECTOR SWITCH 4POS MAINT 2NO-2NC
27	22	APD199DN-G-120V	IDEC	PILOT LIGHT TWTD GREEN-LED 120VAC
28	23	APD199DN-A-120V	IDEC	PILOT LIGHT TWTD AMBER-LED 120VAC
29	21	APD199DN-R-120V	IDEC	PILOT LIGHT TWTD RED-LED 120VAC
30	1	APD199DN-S-120V	IDEC	PILOT LIGHT TWTD BLUE-LED 120VAC
31				
32	1	SDN 2.5-24-100P	SOLA/HD	POWER SUPPLY 24VDC 2.5A(STE150)
33				
34	1	WMS1C02	C-H	CIRCUIT BREAKER 1P 2A
35	4	WMS1C05	C-H	CIRCUIT BREAKER 5A SINGLE POLE
36	1	WMS1C10	C-H	CIRCUIT BREAKER 1P 10A
37	1	WMS1C20	C-H	CIRCUIT BREAKER 20A SINGLE POLE
38				
39	2	077-DIAA-HGRL-PQ-SD	CROMPTON	TORQUE METERS
40	2	077-DIAA-HGSN-PQ-SD	CROMPTON	RPM METERS
41	1	NONE	ENCLOSURES INC	CONTROL CONSOLE
42	2	ALF16D18R	HOFFMAN	LIGHT FIXTURE WITH DOOR SWITCH 115V (REPLACES A-LF16D18)
43	1	81-S	LINE MASTER	FOOT SWITCH
44	1	KSP-41TB	SIGNAWORKS	AUDIBLE ALARM
45	2	V7-ER35	SPRECHER+SCHUH	END RETAINER-SCREWLESS(VS WAGO 249-116)(STAN50)
46	1	6B3XXPAK1XXXXXX	WESCHLER INSTRUMENTS	CIRCULAR BARGRAPH
47	2	ABRXXPAK1XXXXXT	WESCHLER INSTRUMENTS	TRICOLOR BARGRAPHS

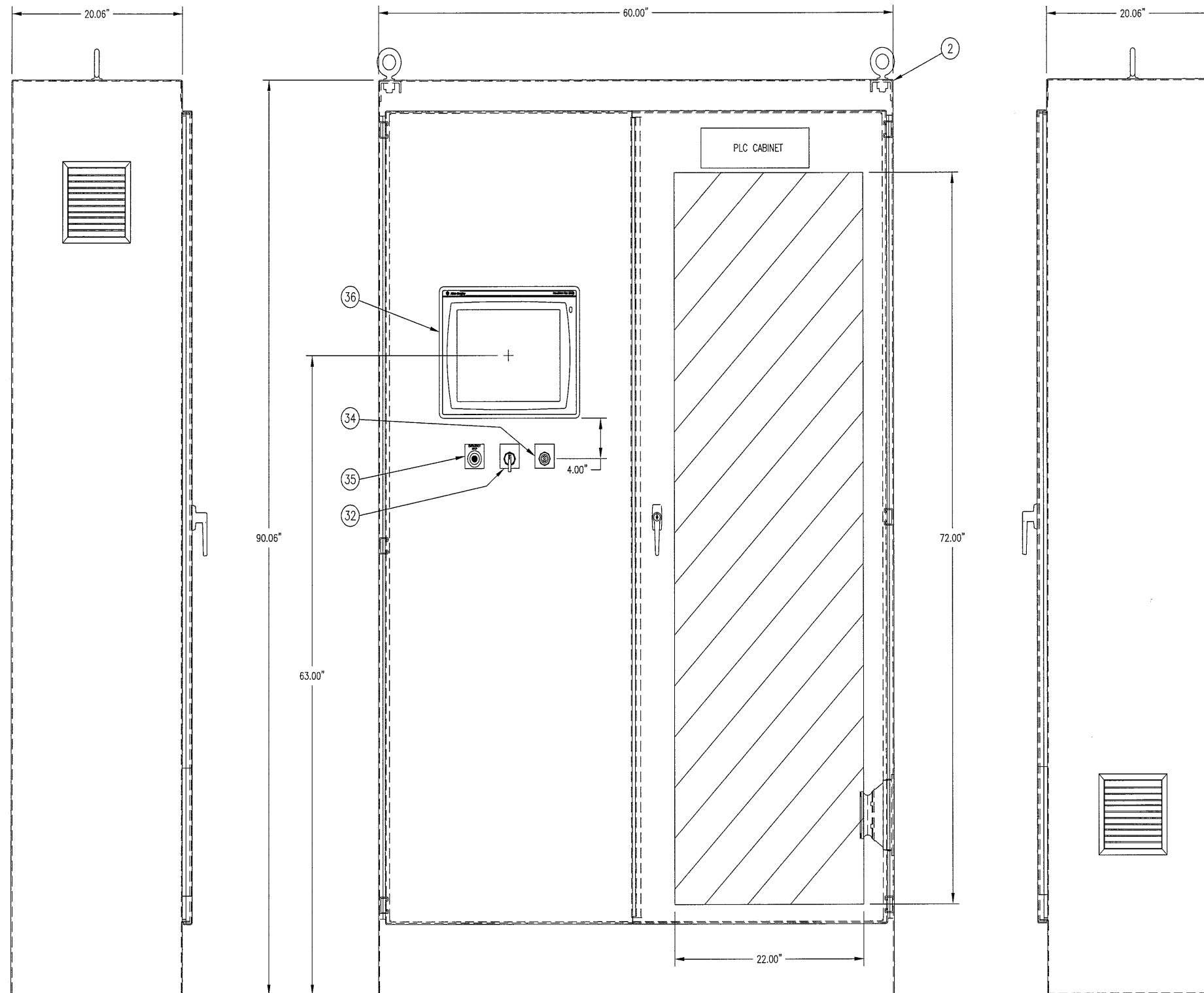
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B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

PANATROL CORPORATION
7441 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
CONTROL CONSOLE
SUBPANEL

JOB No. 6416
APPROVED BY: VY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416093
FOR: ATLANTIC ELECTRIC



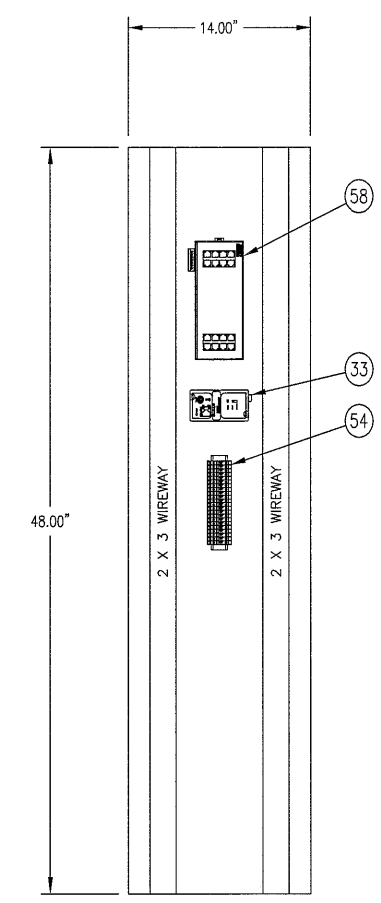
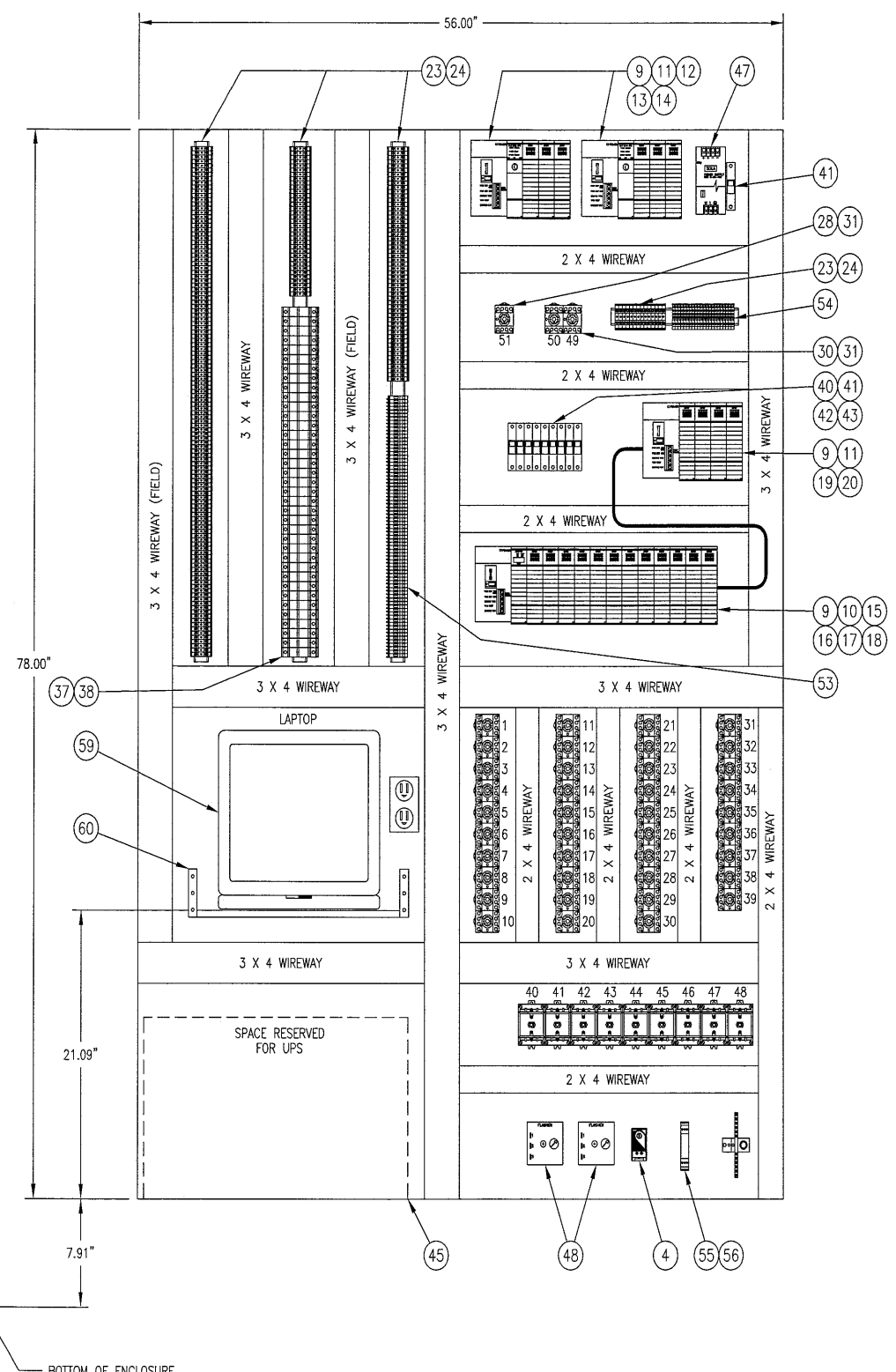
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PANATROL
CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60838

CAPE FEAR BRIDGE
PLC CABINET LAYOUT

JOB No. 6416
APPROVED BY: VY
DESIGNED BY: VY
DRAWN BY: LVT
CHECKED BY: VY
DATE: 8/11/06
SCALE: NONE SIZE: D
DRAWING NO. 6416100
FOR: ATLANTIC ELECTRIC



RELAY DESCRIPTION

1. CR-EBL	21. IR-LEB	41. CR-EGN
2. CR-EBR	22. IR-REB	42. CR-ETSR (12 POLE)
3. CR-EBI	23. IR-LEG	43. CR-ETSY
4. CR-EGL	24. IR-REG	44. CR-WGN
5. CR-EGR	25. IR-DLK1	45. CR-WTSR (12 POLE)
6. CR-EGI	26. IR-PLK1	46. CR-WTSY
7. CR-ESLD	27. IR-RMOBE	47. CR-CP
8. CR-ESLP	28. IR-RMABE1	48. CR-NL
9. CR-WBL	29. IR-RMABE2	49. CR-PLC1
10. CR-WBR	30. IR-LWB	50. CR-PLC2
11. CR-WBI	31. IR-RWB	51. CR-PLC3
12. CR-WGL	32. IR-LWG	
13. CR-WGR	33. IR-RWG	
14. CR-WGI	34. IR-DLK2	
15. CR-WSLD	35. IR-PLK2	
16. CR-WSLP	36. IR-RMOBW	
17. IR-FSNE	37. IR-RMABW1	
18. IR-FSSE	38. IR-RMABW2	
19. IR-FSNW	39. CR-HCO	(12 POLE)
20. IR-FSSW	40. CR-SH	

TERMINAL BLOCK DESCRIPTION

4504B	4104	4203A	P-UPS-H	SPARE SS	1304A	1728A	1828A
4504C	4104	4204	P-UPS-H	SPARE SS	1305A	1729A	1829A
4504D	4104A	4208A	P-UPS-H	SPARE SS	1306A	1730A	1830A
4504-N	4105	4209	P-UPS-H	SPARE SS	1307A	1731A	1831A
LP-1A-N5	4105	4213A	P-UPS-H	SPARE SS	1308A	1732A	1832A
LP-1A-H5	4105A	4214	P-UPS-H	SPARE SS	1309A	1733A	1833A
	4115	4227A	P-UPS-N	SPARE SS	1310A	1734A	1834A
4510B	4115	4228	P-UPS-N	SPARE SS	1311A	1735A	1835A
4510C	4115A	4232A	P-UPS-N	SPARE SS	1312A	1736A	
4510D	4116	4233	P-UPS-N	SPARE SS	1313A	1737A	
4510-N	4116		P-UPS-N	SPARE SS	1314A	1738A	
LP-1A-N6	4116A	4002A			1204A	1315A	1739A
LP-1A-H6		4014A	4008		1205A	1316A	1749A
	1112A	4026A	4009		1206A	1317A	1741A
4515	1116B	4038A	4010		1207A	1318A	1742A
4516	1122A	4102A	4020		1208A	1319A	1743A
4517A		4113A	4021		1209A	1328A	
4518-N	1132A		4022		1210A	1329A	
LP-1A-N7	1132A	FU1529	4032		1211A	1330A	
LP-1A-H7		FU1530	4033		1214A	1331A	
	1132B	FU1531	4034		1215A	1332A	
4521	1132B	FU1532	4044		1228A	1333A	
4522	1132B	FU1533	4045		1229A	1334A	
4523A	1132B	FU1534	4046		1230A	1335A	
4524-N	1132B	FU1535			1231A	1336A	
LP-1A-N8		FU1536			1232A	1337A	
LP-1A-H8	1411A	FU1538			1233A	1338A	
LP-1A-N9	1412A	FU1539			1234A	1339A	
LP-1A-H9	1417A	FU1540			1235A	1340A	
	1418A	FU1541			1236A	1341A	
4536	1419A	FU1542			1237A	1342A	
4537-N	1420A	FU1543			1238A	1343A	
LP-1A-N10	1421A	FU1544			1239A		
LP-1A-H10	1435A				1240A		
	1436A	FU1142			1241A		
4542	1441A	FU1143			1242A		
4543-N	1442A	FU1144			1243A		
LP-1A-N11	1443A	FU1145					
LP-1A-H11	1444A						
	1445A	FU4002					
4545	1508A	FU4014			1704A	1804A	
4546-N	1509A	FU4026			1705A	1805A	
LP-1A-N12	1510A	FU4038			1706A	1806A	
LP-1A-H12	1511A	FU4102			1707A	1807A	
	1512A	FU4114			1708A	1808A	
4004	1520A				1709A	1809A	
4004A	1521A	FU4127			1710A	1810A	
4005		FU4130			1711A	1811A	
4005A	LP-1A-N22	FU4133			1712A		
4016	LP-1A-N22	FU4136			1713A		
4016A	LP-1A-N22	FU4139			1714A		
4017	LP-1A-N22	FU4142			1715A		
4017A		FU4203			1716A		
4028	1103A	FU4208			1717A		
4028A	1142B	FU4213			1718A		
4029	1143B	FU4227			1719A		
4029A	1144B	FU4232					
4040	1145B	1120A					
4040A		1120A					
4041		1120A					
4041A		1120A					

ANALOG LEVEL SS TERMINAL BLOCK DESCRIPTION

B	CABLE 2C-2D		
C			
S			
B	CABLE S1		
C			
S			

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FOR: ATLANTIC ELECTRIC					

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638


JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: NONE SIZE: D
 DRAWING NO. 6416101

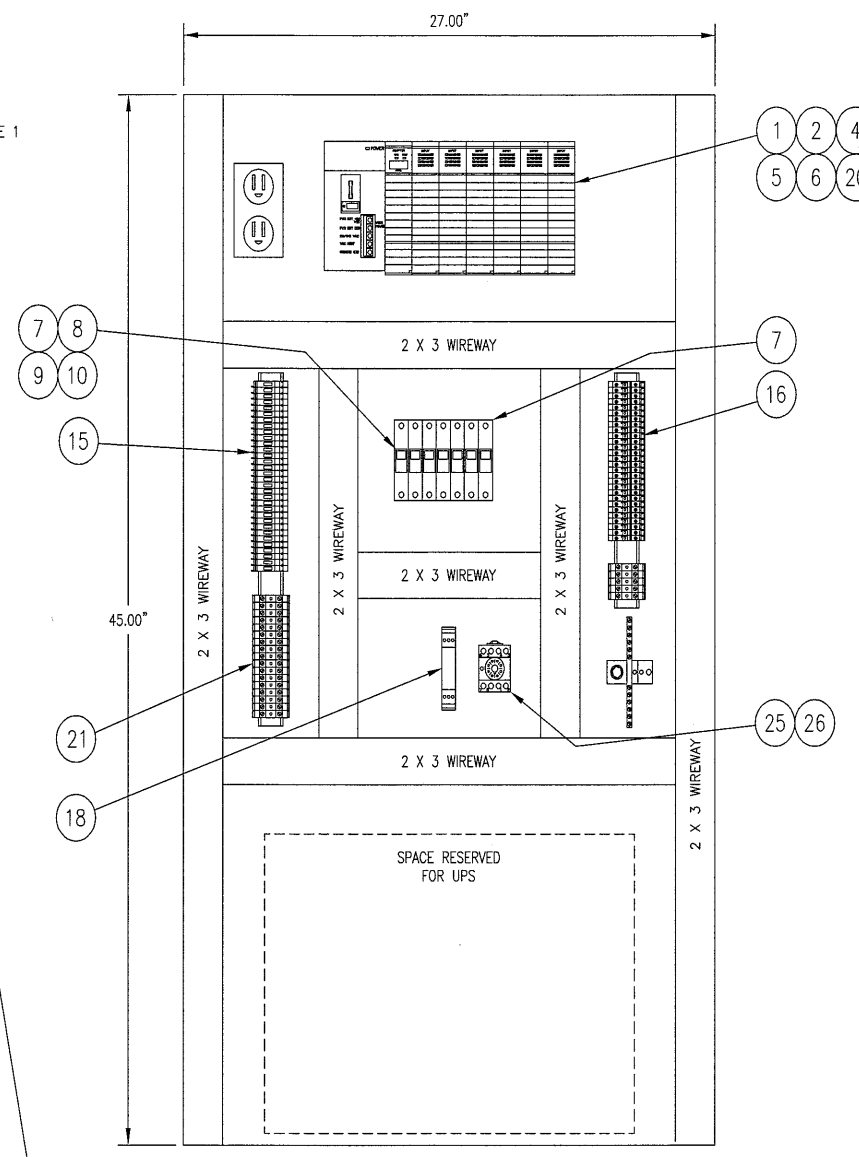
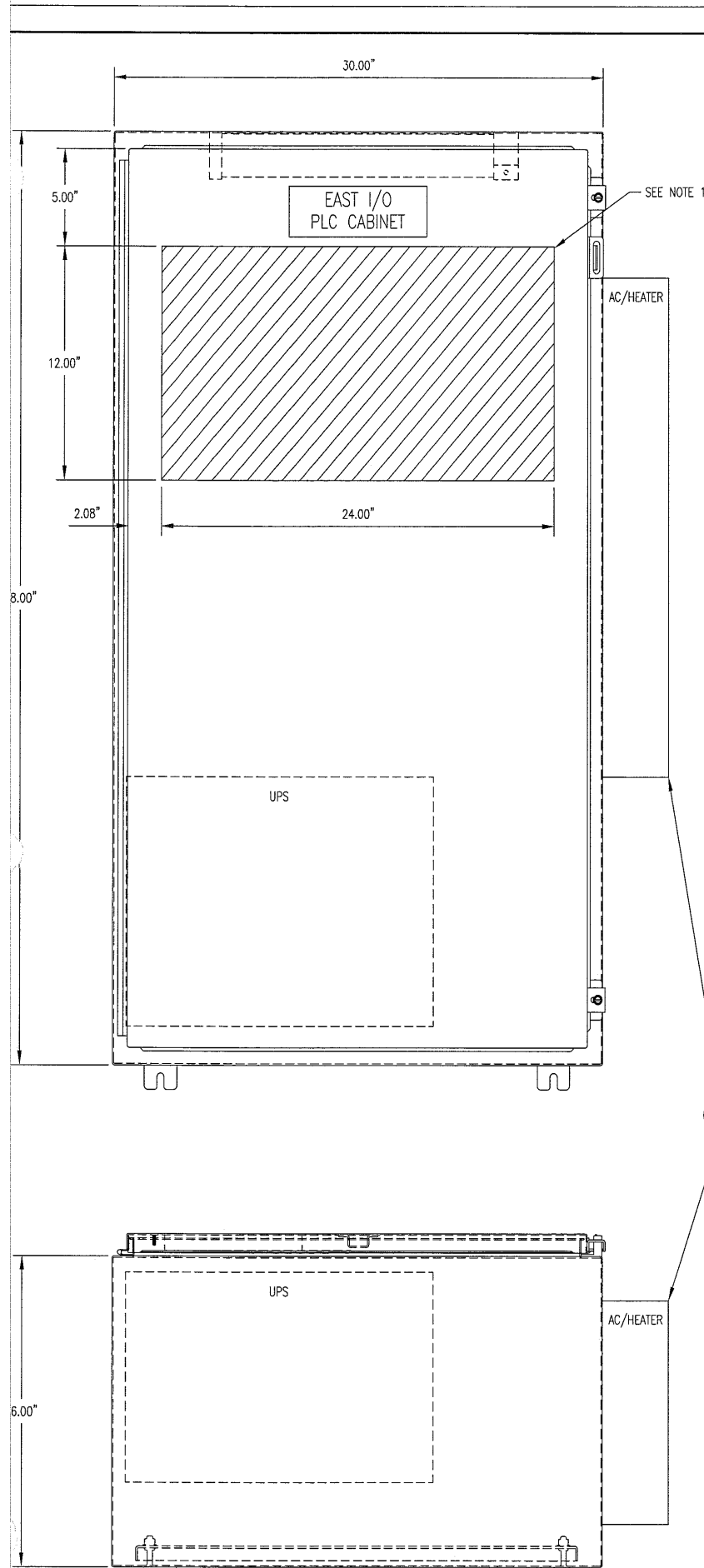
BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1				
2	1	N/A	ENCLOSURE INC.	90" X 60" ENCLOSURE CABINET WITH SUBPANEL AND RIGHT SIDE PANEL
3				
4	1	ATEMNO	HOFFMAN	TEMPERATURE CONTROL SWITCH N.O. THERMOSTAT
5	1	TEP101UL12	HOFFMAN	FILTER FAN PACKAGE
6	1	TEP10UL12	HOFFMAN	EXHAUST PACKAGE
7	2	ALF16D18R	HOFFMAN	LIGHT FIXTURE WITH DOOR SWITCH 115V (REPLACES A-LF16D18)
8				
9	4	1746-P2	ALLEN-BRADLEY	POWER SUPPLY SLC RACK MOUNT 120/240 VAC IN 5A@5V .96A@24V OUT
10	1	1746-A13	ALLEN-BRADLEY	CHASSIS 13 SLOT
11	3	1746-A4	ALLEN-BRADLEY	4 SLOT CHASSIS MODULAR HARDWARE STYLE
12	2	1747-L543	ALLEN-BRADLEY	PROCESSOR SLC 5/05 64K MEM.
13	2	1747-M2	ALLEN-BRADLEY	EEPROM
14	4	1747-SN	ALLEN-BRADLEY	REMOTE I/O SCANNER
15	1	1747-ASB	ALLEN-BRADLEY	REMOTE I/O ADAPTER
16	4	1746-IA16	ALLEN-BRADLEY	INPUT MODULE 16PT 120VAC
17	4	1746-OW16	ALLEN-BRADLEY	OUTPUT MODULE RELAY 16PT
18	2	1746-NI8	ALLEN-BRADLEY	(8) ANALOG INPUT +/-20MA +/-10VAC
19	2	1746-NO4I	ALLEN-BRADLEY	ANALOG OUTPUT CARD
20	2	QLC-DPR-85-D-ST	PHOENIX DIGITAL	SLC PLUG IN RIO MODULE FOR FIBER OPTICS
21	1	1746-C9	ALLEN-BRADLEY	*CHASSI INTERCONNECTION CABLE 36***
22	1	1492-SMN81	ALLEN-BRADLEY	MARKER CARD 100 CARD (SURGE SUP)
23	200	1492-W10		T.B. 50A GRAY 600VAC/DC
24	4	1492-EB10	ALLEN-BRADLEY	END BARRIERS
25				
26	3	700-P1200A1	ALLEN-BRADLEY	RELAY INDUSTRIAL 600V 12 P 120V COIL
27	6	700-P400A1	ALLEN-BRADLEY	RELAY INDUSTRIAL 600V 4 P 120V COIL
28	40	700-HA32A1-3-1	ALLEN-BRADLEY	RELAY DPDT SQ.BASE 10A 120VAC
29	40	700-HN125	ALLEN-BRADLEY	RELAY BASE SCREW TERMINAL TUBE
30	2	700-HAX3A1-3-1	ALLEN-BRADLEY	3 POLE RELAY 24VDC BIFUCATED CONTACTS
31	2	700-HN126	ALLEN-BRADLEY	RELAY BASE SCREW TERMINAL TUBE
32	1	800T-J7303KE7EDXX	ALLEN-BRADLEY	3 POSITION SELECTOR SWITCH RETURN FROM THE RIGHT TO CENTER
33	1	9300-RADKIT	ALLEN-BRADLEY	REMOTE ACCESS DIAL IN MODEM
34	1	800T-H33A	ALLEN-BRADLEY	SELECTOR SWITCH 2 POS KEY
35	1	800T-FXPF16RA	ALLEN-BRADLEY	PUSH PULL 2-POS ILLUN 120VAC RED
36	1	2711P-T15C6B1	ALLEN-BRADLEY	PANELVIEW PLUS 1500 TERMINAL
37	37	1492-FB1M30-D1	ALLEN-BRADLEY	FUSE HOLDER W/BLOWN FUSE INDICATOR
38	16	MDA-1	BUSSMANN	FUSE 250V 1A
39	37	MDA-5	BUSSMANN	FUSE 250V 5A
40	1	WMS1C02	CUTLER-HAMMER	CIRCUIT BREAKER 5A SINGLE POLE
41	6	WMS1C05	CUTLER-HAMMER	CIRCUIT BREAKER 5A SINGLE POLE
42	1	WMS1C10	CUTLER-HAMMER	CIRCUIT BREAKER 1P 10A
43	3	WMS1C20	CUTLER-HAMMER	CIRCUIT BREAKER 20A SINGLE POLE
44				
45	1	FE2.1KVA W/EXTRA BATTERY	FERRUPS	UPS W/23 MINUTES OF RUNTIME AT HALF LOAD
46				
47	1	SDN 5-24-1000P	SOLA/HD	24 VDC POWER SUPPLY 5A
48	2	TP-505	TRAFFIC PARTS	ELECTRO MECHANICAL FLASHER
49	1	X	MISCELLANEOUS	WIRE MARKERS PANDUIT ETC
50				
51	1	1050004	PHOENIX	ZACK STRIP UNPRINTED FOR INDIVIDUAL LABELING(STE150)
52	13	1054000	PHOENIX	ZBB ZACK STRIP
53	75	2788236	PHOENIX	TERMITRAB TB TT-URTK/S-110AC DISC.TB WITH SUPP.DIODE (B&B 60)
54	44	2794699	PHOENIX	SURGE SUPPRESSOR ANALOG LEVEL(B&B 60)
55	1	2839282	PHOENIX	PT-BE/FM PLUGTRAB BASE
56	1	2839334	PHOENIX	PT 2-PE/S-120AC-ST SURGE SUPPRESSOR 120VAC 26A
57	1	310143	PHOENIX	D-URTK BK END COVER
58	1	2832849	PHOENIX	FL SWITCH SF 16 TX
59	1	CF-290QGBM	PANASONIC	NOTEBOOK COMPUTER W/CF-VDR291U CD-RW
60	1	SA-1751	BUD INDUSTRIES	COMPUTER SHELF

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 CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		JOB No. 6416 APPROVED BY: YY DESIGNED BY: YY DRAWN BY: LVT CHECKED BY: YY
CAPE FEAR BRIDGE MAIN PLC CABINET BILL OF MATERIALS		DATE: 8/11/06 SCALE: NONE SIZE: D
DRAWING NO. 6416102		FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS				
ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	1	1746-A7	ALLEN-BRADLEY	CHASSIS 7 SLOT
2	2	1746-IA16	ALLEN-BRADLEY	INPUT MODULE 16PT 120VAC
3	0	1746-OW16	ALLEN-BRADLEY	OUTPUT MODULE RELAY 16PT
4	1	1746-P2	ALLEN-BRADLEY	POWER SUPPLY SLC RACK MOUNT 120/240 VAC IN 5A@5V .96A@24V OUT
5	1	1747-ASB	ALLEN-BRADLEY	REMOTE I/O ADAPTER
6	2	1746-R2	GEMCO	RESOLVER INTERFACE CARD
7	2	WMS1C02	CUTLER-HAMMER	CIRCUIT BREAKER 2A SINGLE POLE
8	2	WMS1C05	CUTLER-HAMMER	CIRCUIT BREAKER 1P 5A
9	2	WMS1C10	CUTLER-HAMMER	CIRCUIT BREAKER 10A SINGLE POLE
10	1	WMS1C20	CUTLER-HAMMER	CIRCUIT BREAKER 20A SINGLE POLE
11	1	FE700VA	FERRUPS	UNINTERRUPTABLE POWER SUPPLIES
12	1	X	IEC	1 EA FOR PLC NORTH IO SOUTH IO
13	1	1050004	PHOENIX	ZACK STRIP UNPRINTED FOR INDIVIDUAL LABELING(STE150)
14	7	1054000	PHOENIX	ZBB ZACK STRIP
15	32	2788236	PHOENIX	TERMITRAB TB TT-URTK/S-110AC DISC.TB WITH SUPP.DIODE(B&B 60)
16	28	2794699	PHOENIX	SURGE SUPPRESSOR ANALOG LEVEL(B&B 60)
17	1	2839282	PHOENIX	PT-BE/FM PLUGTRAB BASE
18	1	2839334	PHOENIX	PT 2-PE/S-120AC-ST SURGE SUPPRESSOR 120VAC 26A
19	2	310143	PHOENIX	D-URTK BK END COVER
20	1	QLC-DPR-85-D-ST	PHOENIX DIGITAL	SLC PLUG IN RIO MODULE FOR FIBER OPTICS
21	17	1492-W10	ALLEN-BRADLEY	T.B. 50A GRAY 600VAC/DC
22	2	SD0508300 L15	GEMCO	RESOLVER CABLE, 15 FT.
23	1	ALF16D18R	HOFFMAN	LIGHT FIXTURE WITH DOOR SWITCH
24	1	3800VS126N4 & 4HVL126	ISCSALES	AC & HEATER UNIT
25	1	700-HA32A1-3-4	ALLEN-BRADLEY	RELAY DPDT SQ. BASE 10A 120V
26	1	700-HN125	ALLEN-BRADLEY	RELAY BASE

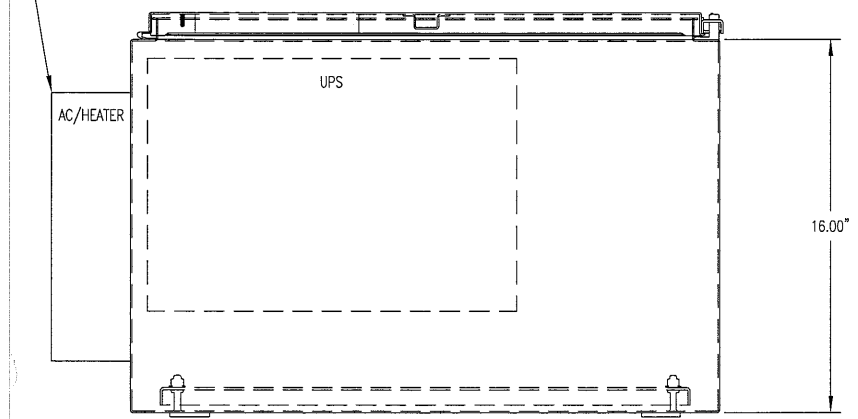
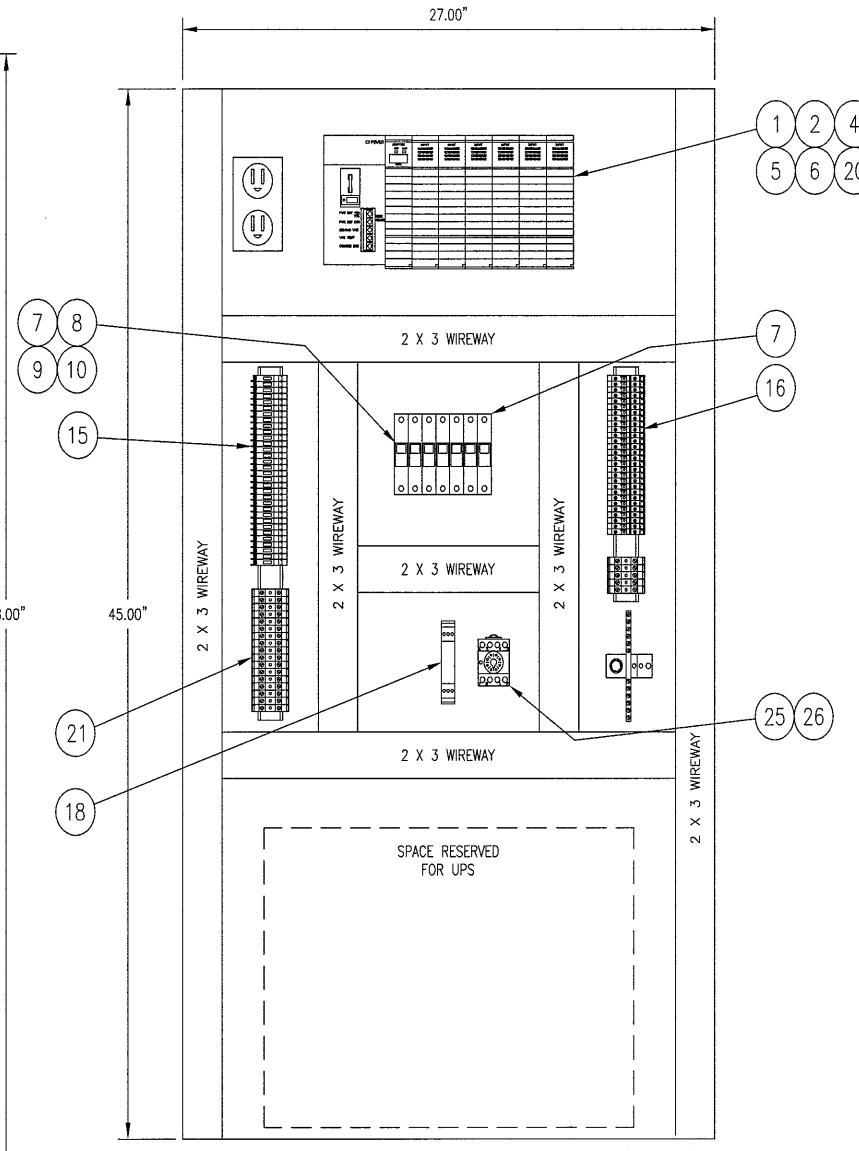
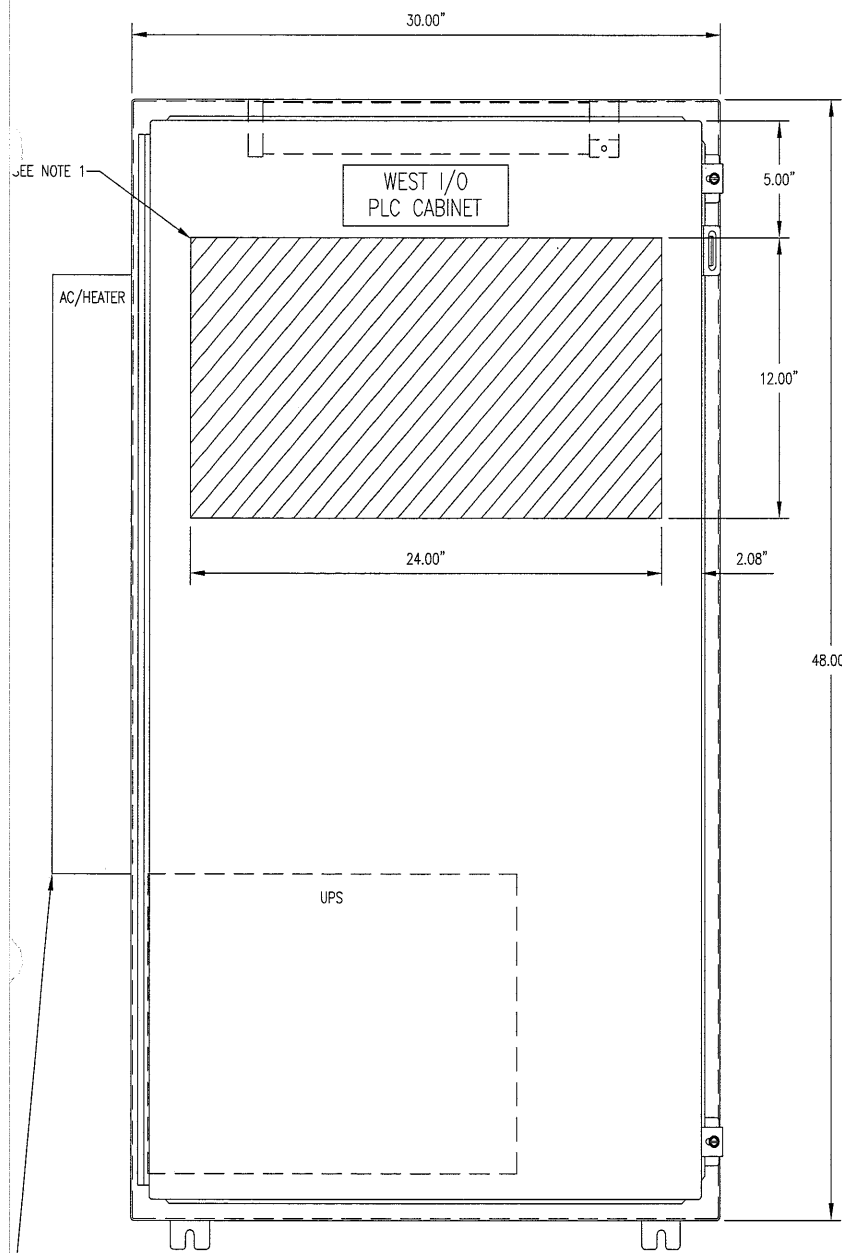
TERMINAL BLOCK DESCRIPTIONS

DIGITAL SS BLOCKS	ANALOG SS BLOCKS
3104A	A1
3105A	B1
3106A	C1
3107A	D1
3108A	E1
3109A	F1
3110A	SH1
3111A	H1
3112A	G1
3113A	J1
3114A	K1
3115A	
3116A	A2
3117A	B2
3118A	C2
3119A	D2
3128A	E2
3129A	F2
3130A	SH2
3131A	H2
3132A	G2
3133A	J2
3134A	K2
3135A	B
3136A	B
3137A	C
3138A	C
3139A	S
3140A	S
3141A	
3142A	+24VDC
3143A	+24VDC
	-24COM
	-24COM
LP3-N12	
LP3-N12	
J020A	
J020A	
J020A	
J020A	
E-UPS-N	
E-UPS-N	
E-UPS-N	
E-UPS-N	
E-UPS-H	
E-UPS-H	

- NOTES:
 1. PLEXIGLASS OR EQUIVALENT.
 2. TERMINALS TO BE Z RAIL MOUNT.

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		JOB No. 6416
CORPORATION 7461 SOUTH SAYERS AVE BEDFORD PARK, IL 60638		APPROVED BY: VY
CAPE FEAR BRIDGE EAST REMOTE I/O CABINET LAYOUT AND BILL OF MATERIALS		DESIGNED BY: VY
FOR: ATLANTIC ELECTRIC		DRAWN BY: LVT
NO. DATE REVISIONS DRAWN BY CHECKED BY		CHECKED BY: VY
C	10/12/07	REVISED AS INSTALLED LVT VY
B	1/18/07	ISSUED FOR CONSTRUCTION LVT VY
A	8/14/06	ISSUED FOR APPROVAL LVT VY
DATE: 8/11/06		SCALE: NONE SIZE: D
DRAWING NO. 6416103		



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	1	1746-A7	ALLEN-BRADLEY	CHASSIS 7 SLOT
2	2	1746-IA16	ALLEN-BRADLEY	INPUT MODULE 16PT 120VAC
3	0	1746-OW16	ALLEN-BRADLEY	OUTPUT MODULE RELAY 16PT
4	1	1746-P2	ALLEN-BRADLEY	POWER SUPPLY SLC RACK MOUNT 120/240 VAC IN 5A@5V .96A@24V OUT
5	1	1747-ASB	ALLEN-BRADLEY	REMOTE I/O ADAPTER
6	2	1746-R2	GEMCO	RESOLVER INTERFACE CARD
7	2	WMS1C02	CUTLER-HAMMER	CIRCUIT BREAKER 2A SINGLE POLE
8	2	WMS1C05	CUTLER-HAMMER	CIRCUIT BREAKER 1P 5A
9	2	WMS1C10	CUTLER-HAMMER	CIRCUIT BREAKER 10A SINGLE POLE
10	1	WMS1C20	CUTLER-HAMMER	CIRCUIT BREAKER 20A SINGLE POLE
11	1	FE700VA	FERRUPS	UNINTERRUPTABLE POWER SUPPLIES
12	1	X	IEC	1 EA FOR PLC NORTH IO SOUTH IO
13	1	1050004	PHOENIX	ZACK STRIP UNPRINTED FOR INDIVIDUAL LABELING(STE150)
14	7	1054000	PHOENIX	ZBB ZACK STRIP
15	32	2788236	PHOENIX	TERMITRAB TB TT-URTK/S-110AC DISC.TB WITH SUPP.DIODE(B&B 60)
16	28	2794699	PHOENIX	SURGE SUPPRESSOR ANALOG LEVEL(B&B 60)
17	1	2839282	PHOENIX	PT-BE/FM PLUGTRAB BASE
18	1	2839334	PHOENIX	PT 2-PE/S-120AC-ST SURGE SUPPRESSOR 120VAC 26A
19	2	310143	PHOENIX	D-URTK BK END COVER
20	1	OLC-DPR-85-D-ST	PHOENIX DIGITAL	SLC PLUG IN RIO MODULE FOR FIBER OPTICS
21	17	1492-W10	ALLEN-BRADLEY	T.B. 50A GRAY 600VAC/DC
22	2	SD0508300 L15	GEMCO	RESOLVER CABLE, 15 FT.
23	1	ALF16D18R	HOFFMAN	LIGHT FIXTURE WITH DOOR SWITCH
24	1	3800VS126N4 & 4HVL126	ISCSALES	AC & HEATER UNIT
25	1	700-HA32A1-3-4	ALLEN-BRADLEY	RELAY DPDT SQ. BASE 10A 120V
26	1	700-HN125	ALLEN-BRADLEY	RELAY BASE

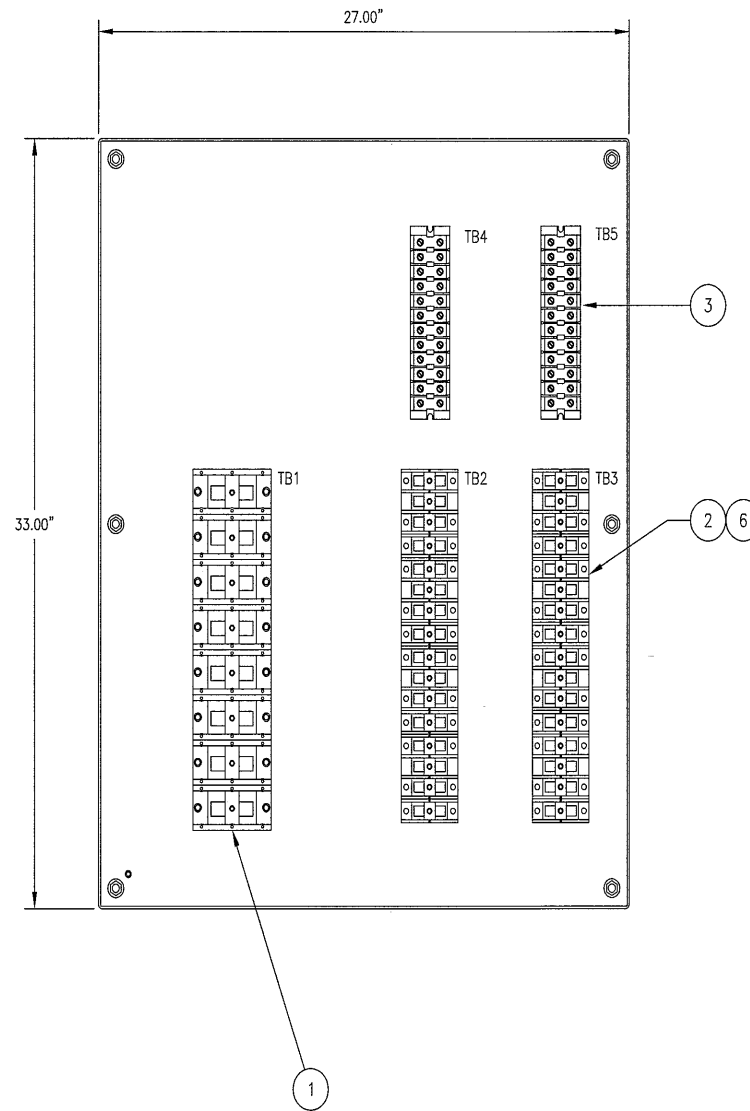
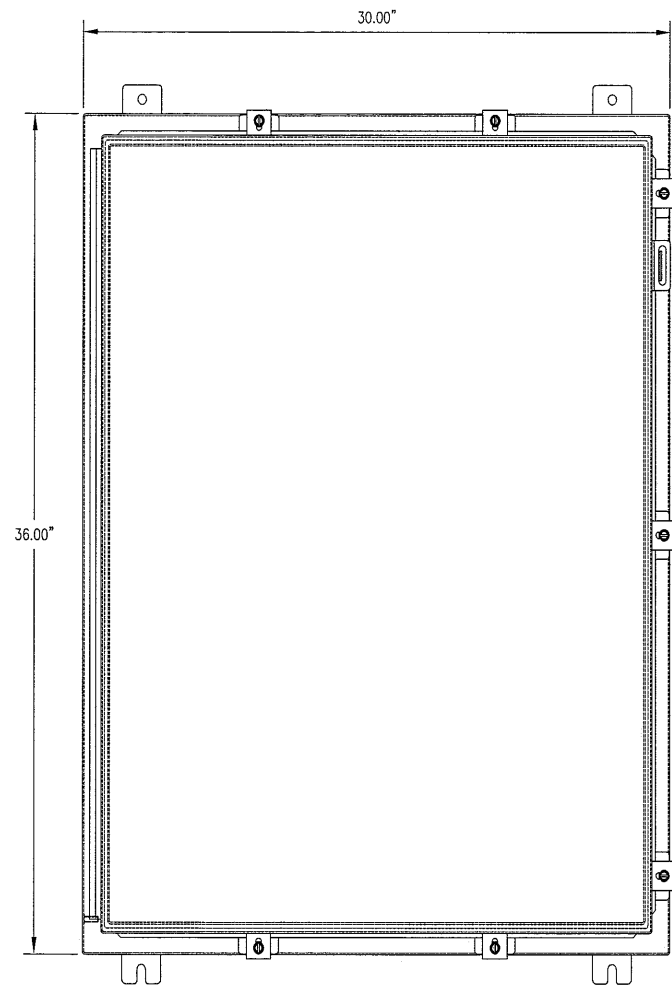
TERMINAL BLOCK DESCRIPTIONS

DIGITAL SS BLOCKS	ANALOG SS BLOCKS
3604A	A1
3605A	B1
3606A	C1
3607A	D1
3608A	E1
3609A	F1
3610A	SH1
3611A	H1
3612A	G1
3613A	J1
3614A	K1
3615A	
3616A	A2
3617A	B2
3618A	C2
3619A	D2
3628A	E2
3629A	F2
3630A	SH2
3631A	H2
3632A	G2
3633A	J2
3634A	K2
3635A	B
3636A	C
3637A	S
3638A	
3639A	+24VDC
3640A	+24VDC
3641A	-24COM
3642A	-24COM
3643A	
LP2-N12	
LP2-N12	
3520A	
3520A	
3520A	
3520A	
W-UPS-N	
W-UPS-N	
W-UPS-N	
W-UPS-N	
W-UPS-H	
W-UPS-H	

NOTES:
 1. PLEXIGLASS OR EQUIVALENT.
 2. TERMINALS TO BE Z RAIL MOUNT.

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 CORPORATION 7481 SOUTH SAYRE AVE BEDFORD PARK, IL 60638		JOB No.	6416
		APPROVED BY:	YV
CAPE FEAR BRIDGE WEST REMOTE I/O CABINET LAYOUT AND BILL OF MATERIALS		DESIGNED BY:	YV
		DRAWN BY:	LVT
FOR: ATLANTIC ELECTRIC		CHECKED BY:	YV
		DATE:	8/11/06
NO. DATE REVISIONS DRAWN BY CHECKED BY		SCALE:	NONE
C 10/12/07 REVISED AS INSTALLED LVT YV B 1/18/07 ISSUED FOR CONSTRUCTION LVT YV A 8/14/06 ISSUED FOR APPROVAL LVT YV		SIZE:	D
DRAWING NO. 6416104		12/3/2007 1:55:25 PM	



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	8	1431126	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)
2	8	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STE150)
3	2	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)
6	8	1421552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)

TERMINAL BLOCK DESCRIPTIONS

TB1	TB2	TB3	TB4	TB5
813-T1	927-T1	P60-1	SP4-SP1	842-T1
814-T2	928-T2	P60-2	SP4-SP2	843-T2
815-T3	929-T3	P60-3	SP4-SP3	844-T3
GND	GND	GND	SP4-SP4	GND
818-T1	731-T1	SP1-SP1	SP4-SP5	903-T1
819-T2	732-T2	SP1-SP2	SP4-SP6	904-T2
820-T3	733-T3	SP1-SP3	SP4-SP7	905-T3
GND	GND	SP1-SP4	SP4-SP8	GND
	602-L1	SP2-SP1	SP4-SP9	908-T1
	603-L2	SP2-SP2	SP4-SP10	909-T2
	604-L3	SP2-SP3	SP4-SP11	910-T3
	GND	SP2-SP4	SP4-SP12	GND
	708-T1	SP3-SP1		
	709-T2	SP3-SP2		
	710-T3	SP3-SP3		
	GND	SP3-SP4		

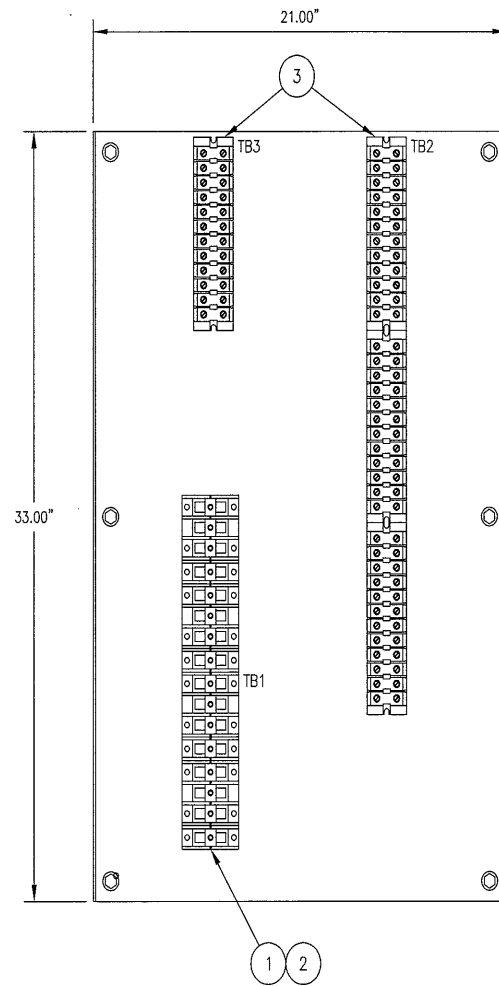
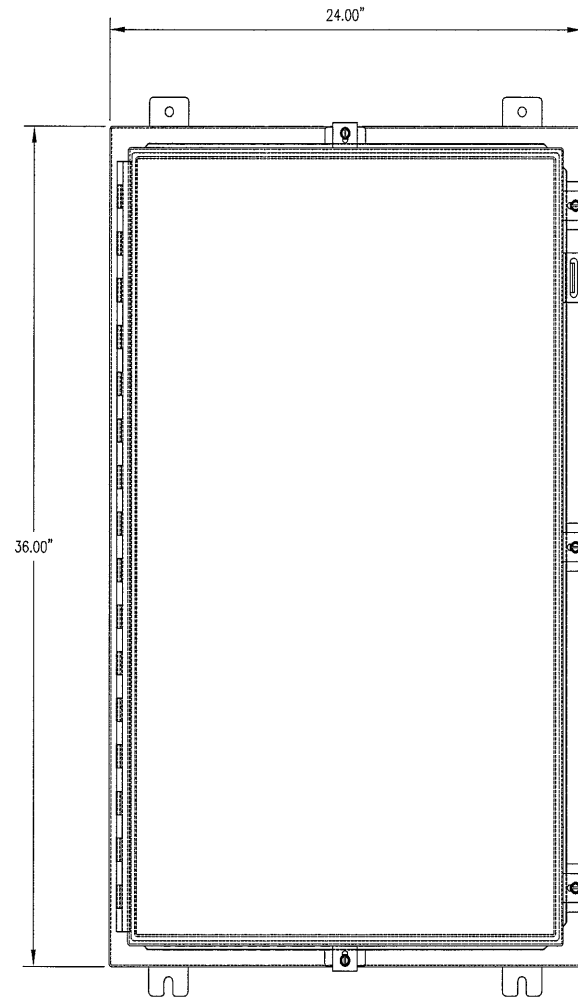
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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	FOR:
C	10/12/07	REVISED AS INSTALLED	LVT	VY	
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY	
B	1/5/07	REVISED PER CABLE SCHEDULE	LVT	VY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY	

PANATROL CORPORATION
 7481 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60838

CAPE FEAR BRIDGE
 PC-1 EAST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: 1=4
 SIZE: D
 DRAWING NO. 6416105
 FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	4	1421552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STEISO)
2	4	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STEISO)
3	4	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)

TERMINAL BLOCK DESCRIPTIONS

TB1	TB2	TB3
742-T1	4510B	941-T1
743-T2	4510C	942-T2
744-T3	4510D	943-T3
GND	4510-N	GND
P46-1	4521	1010-T1
P46-2	4522	1011-T2
P46-3	4523A	1012-T3
P46-4	4524-N	GND
P52-1	4545	P45-SP9
P52-2	4546-N	P45-SP10
P52-3	P50-SP11	P45-SP11
P52-4	P50-SP12	P45-SP12
SP5-SP1	SP6-SP1	
SP5-SP2	SP6-SP2	
SP5-SP3	SP6-SP3	
SP5-SP4	SP6-SP4	
	SP6-SP5	
	SP6-SP6	
	SP6-SP7	
	SP6-SP8	
	SP6-SP9	
	SP6-SP10	
	SP6-SP11	
	SP6-SP12	
	4526	
	4527	
	4528-N	
	P51-SP1	

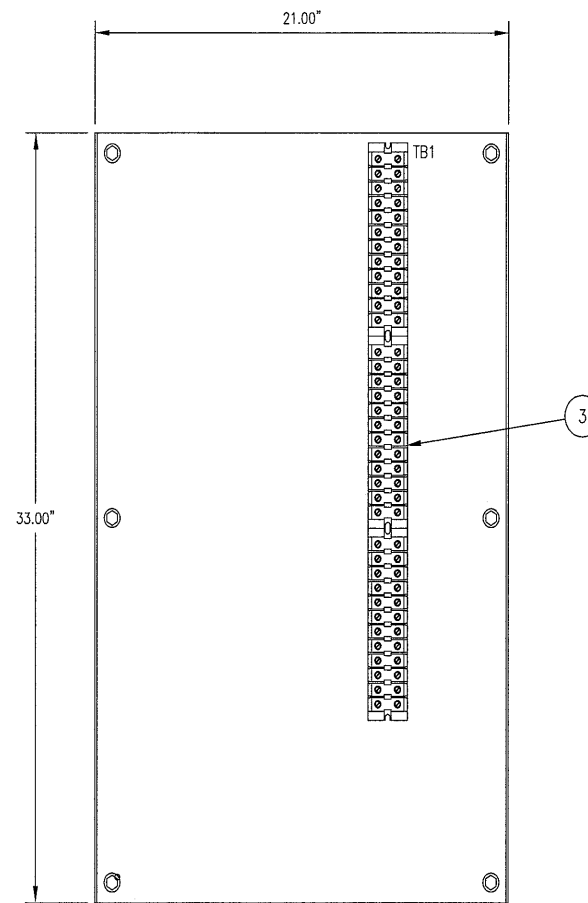
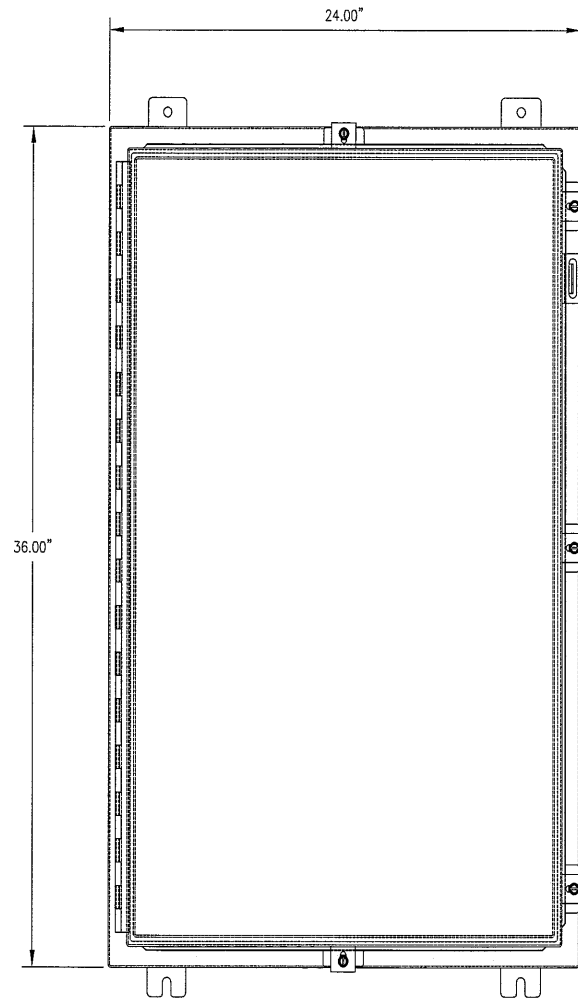
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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
D	10/12/07	REVISED AS INSTALLED	LVT	YY
C	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
B	1/5/07	REVISED PER CABLE SCHEDULE	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 PC-2 EAST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416106
 FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1				
2	0	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STEI50)
3	3	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)

TERMINAL BLOCK DESCRIPTIONS

- TB1
 C56-SP1
 C56-SP2
 C56-SP3
 1144A
 1144B
 1145A
 1145B
 4113
 4115
 4116
 4119
 4120
 4026
 4028
 4029
 4032
 4033
 4034
 4038
 4040
 4041
 4044
 4045
 4046

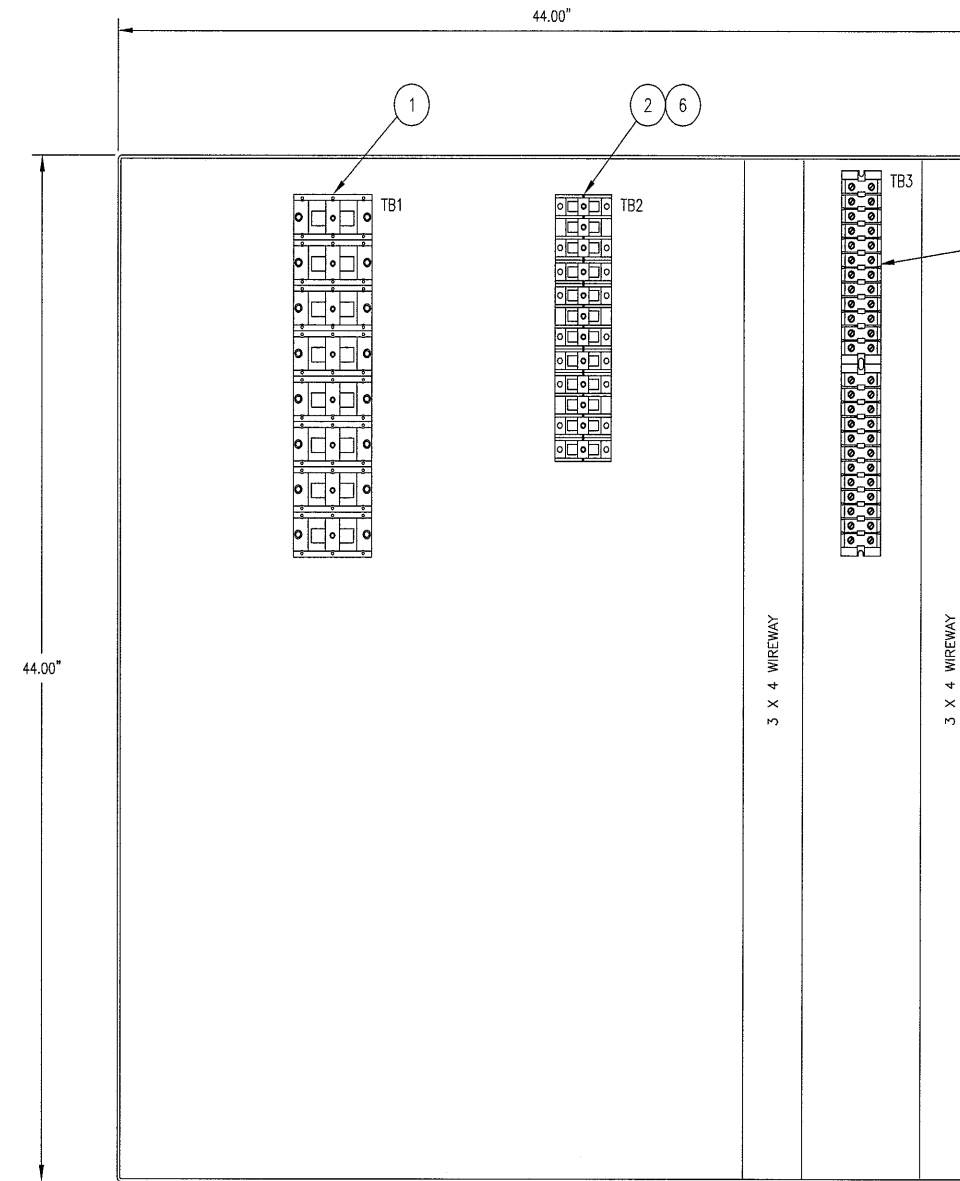
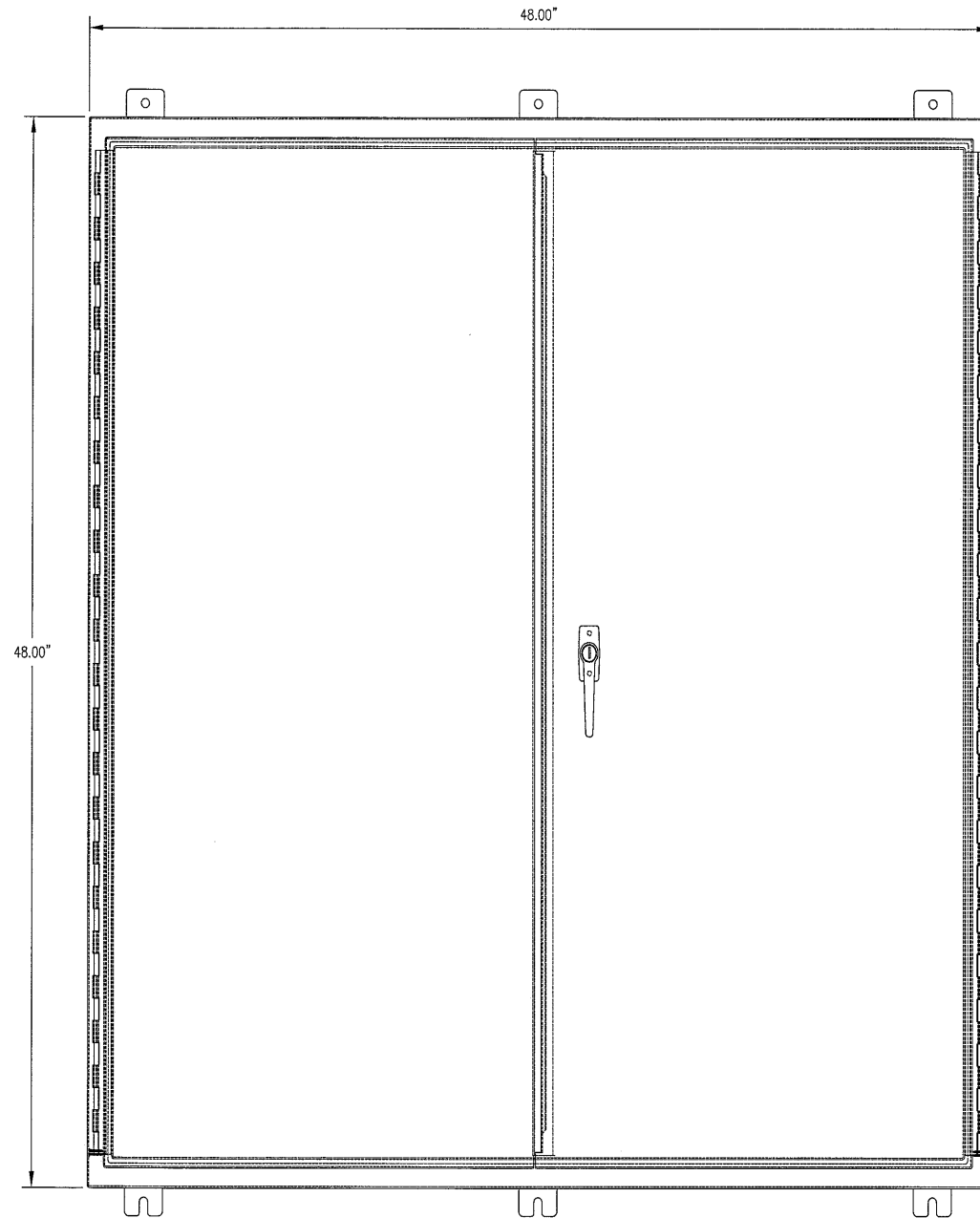
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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
C	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
 7451 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 CC-1 EAST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416107
 FOR: ATLANTIC ELECTRIC



TERMINAL BLOCK DESCRIPTIONS

TB1	TB2	TB3
803-T1	913-T1	626-L1
804-T2	914-T2	627-L2
805-T3	915-T3	628-L3
GND	GND	EMPTY
808-T1	P36-SP1	703-T1
809-T2	P36-SP2	704-T2
810-T3	P36-SP3	705-T3
GND	P36-SP4	GND
		727-T1
		728-T2
		729-T3
		GND
		827-T1
		828-T2
		829-T3
		GND
		832-T1
		833-T2
		834-T3
		GND
		837-T1
		838-T2
		839-T3
		GND

BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	8	1431126	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)
2	3	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STE150)
3	2	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENCL50)
6	3	1421552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)

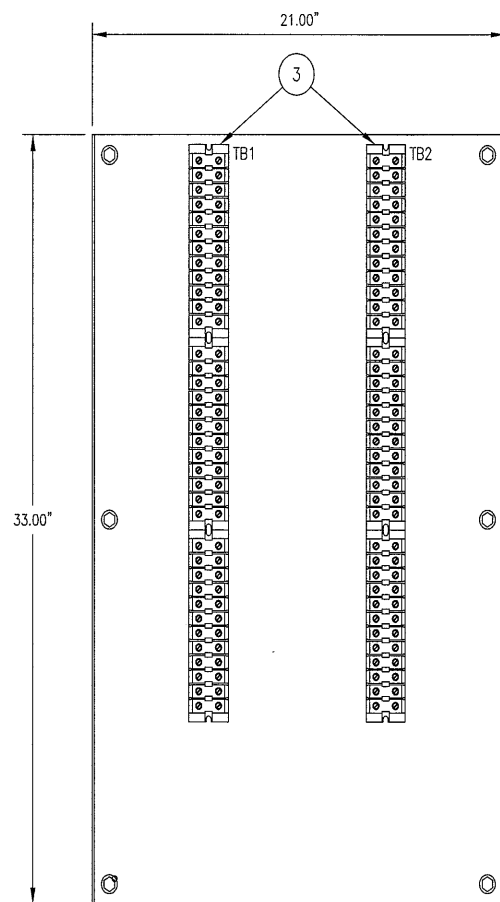
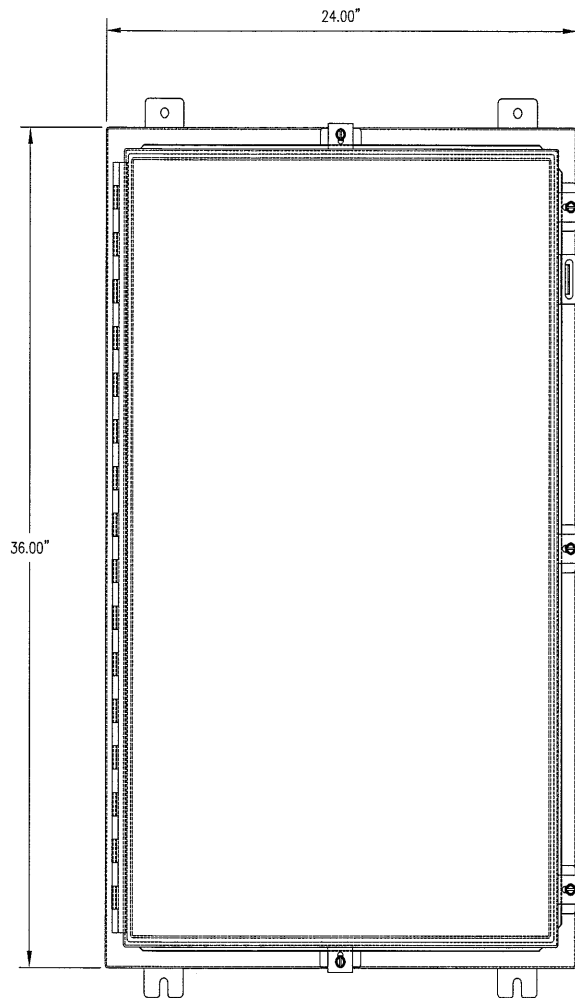
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NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	VY
C	1/18/07	ISSUED FOR CONSTRUCTION	LVT	VY
B	1/5/07	REVISED PER CABLE SCHEDULE	LVT	VY
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 PC-5 EAST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416108
 FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1				
2	0	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STE150)
3	6	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)

TERMINAL BLOCK DESCRIPTIONS

TB1	TB2
736-T1	4002
737-T2	4004
738-T3	4005
GND	4008
934-T1	4009
935-T2	4010
936-T3	4014
GND	4016
1003-T1	4017
1004-T2	4020
1005-T3	4021
GND	4022
P25-1	1142A
P25-2	1142B
P25-3	1143A
P25-4	1143B
P25-5	4102
P25-6	4104
P25-7	4105
P25-8	4108
P25-9	4109
P25-10	C29-10
P25-11	C29-11
P25-12	C29-12
	4504B
	4504C
	4504D
	4504-N
	4515
	4516
	4517A
	4518-N
	4542
	4543-N
	C31-SP11
	C31-SP12

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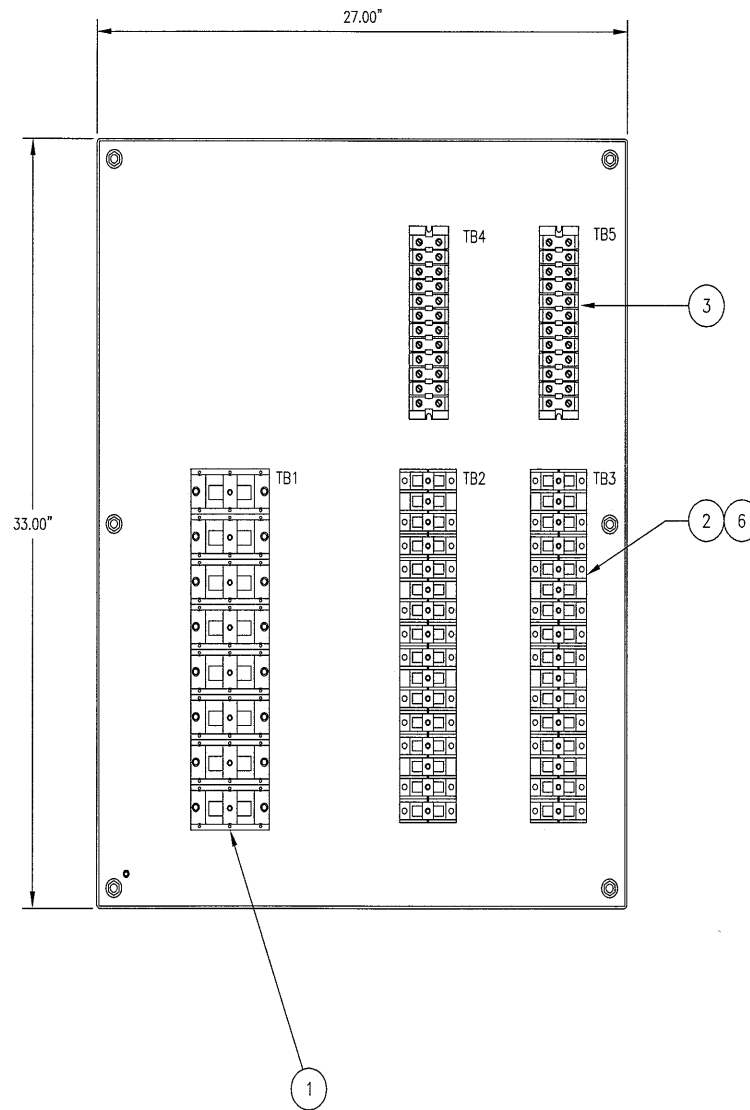
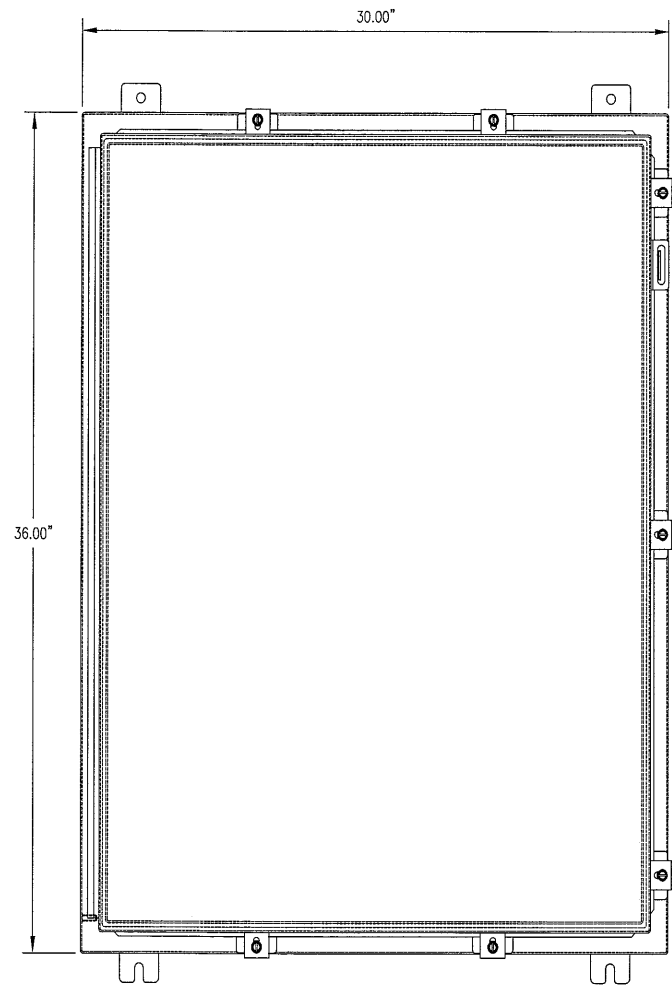
NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
C	10/12/07	REVISED AS INSTALLED	LVT	YY
B	1/18/07	ISSUED FOR CONSTRUCTION	LVT	YY
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL
CORPORATION
7481 SOUTH SAYRE AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
PC-7 EAST
TERMINAL CABINET

JOB No. 6416
APPROVED BY: YY
DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY
DATE: 8/11/06
SCALE: 1=4 SIZE: D
DRAWING NO. 6416109

FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	8	1431126	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)
2	8	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STE150)
3	2	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)
6	8	1421552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)

TERMINAL BLOCK DESCRIPTIONS

TB1	TB2	TB3	TB4	TB5
813-T1	927-T1	P60-1	SP4-SP1	842-T1
814-T2	928-T2	P60-2	SP4-SP2	843-T2
815-T3	929-T3	P60-3	SP4-SP3	844-T3
GND	GND	GND	SP4-SP4	GND
818-T1	731-T1	SP1-SP1	SP4-SP5	903-T1
819-T2	732-T2	SP1-SP2	SP4-SP6	904-T2
820-T3	733-T3	SP1-SP3	SP4-SP7	905-T3
GND	GND	SP1-SP4	SP4-SP8	GND
602-L1	SP2-SP1	SP4-SP9	SP4-SP9	908-T1
603-L2	SP2-SP2	SP4-SP10	SP4-SP10	909-T2
604-L3	SP2-SP3	SP4-SP11	SP4-SP11	910-T3
GND	SP2-SP4	SP4-SP12	GND	GND
708-T1	SP3-SP1			
709-T2	SP3-SP2			
710-T3	SP3-SP3			
GND	SP3-SP4			

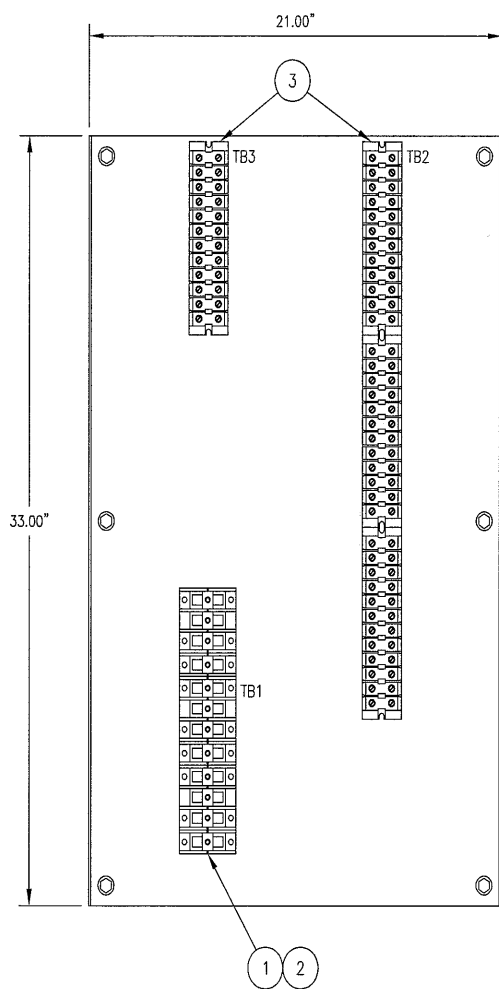
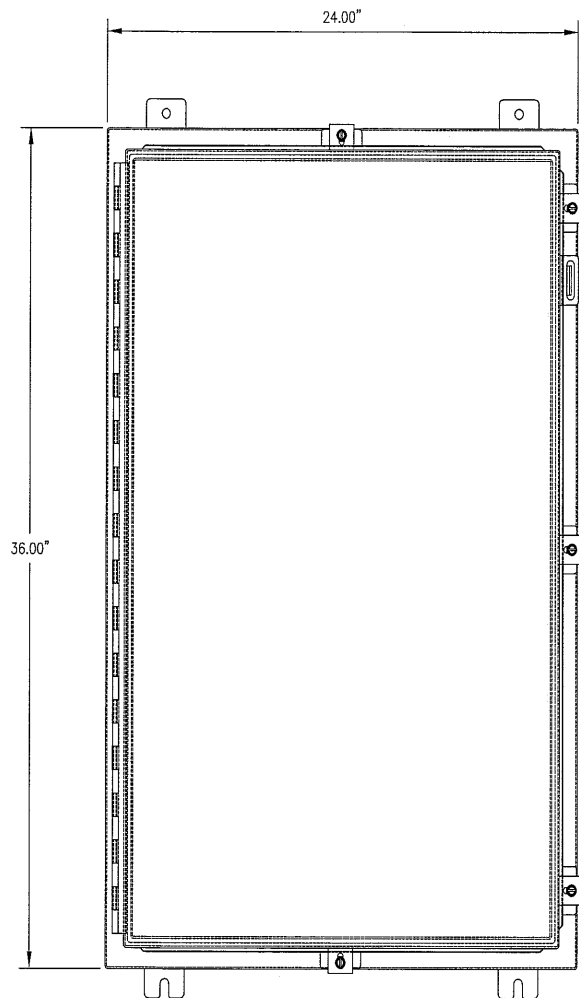
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B	1/5/07	REVISED PER CABLE SCHEDULE	LVT	YY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	

PANATROL CORPORATION
 7461 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 PC-3 WEST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416110
 FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	3	1421552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STEI50)
2	3	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STEI50)
3	4	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)

TERMINAL BLOCK DESCRIPTIONS

TB1	TB2	TB3
742-T1	4510B	941-T1
743-T2	4510C	942-T2
744-T3	4510D	943-T3
GND	4510-N	GND
P46-1	4521	1010-T1
P46-2	4522	1011-T2
P46-3	4523A	1012-T3
P46-4	4524-N	GND
SP5-SP1	4545	P45-SP9
SP5-SP2	4546-N	P45-SP10
SP5-SP3	P50-SP11	P45-SP11
SP5-SP4	P50-SP12	P45-SP12
SP6-SP1		
SP6-SP2		
SP6-SP3		
SP6-SP4		
SP6-SP5		
SP6-SP6		
SP6-SP7		
SP6-SP8		
SP6-SP9		
SP6-SP10		
SP6-SP11		
SP6-SP12		

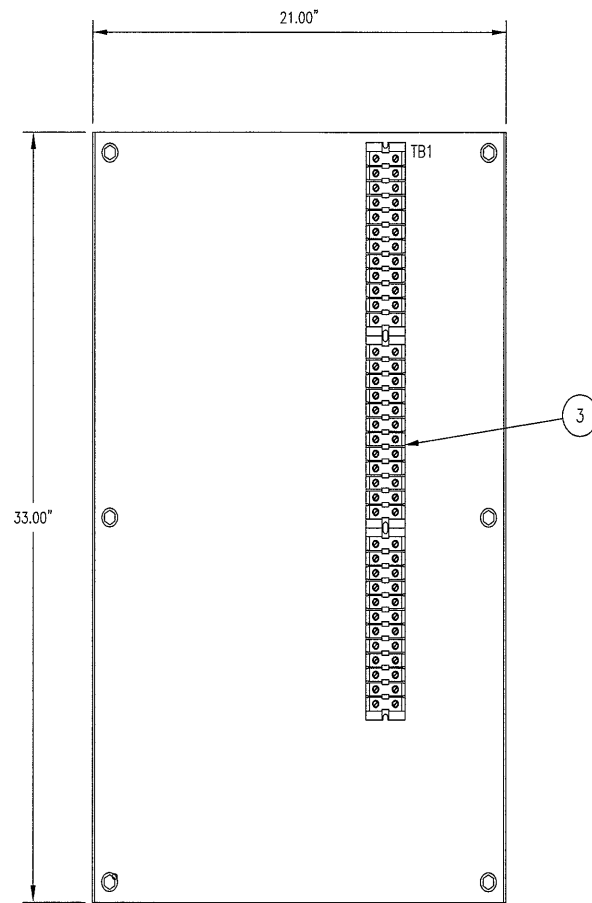
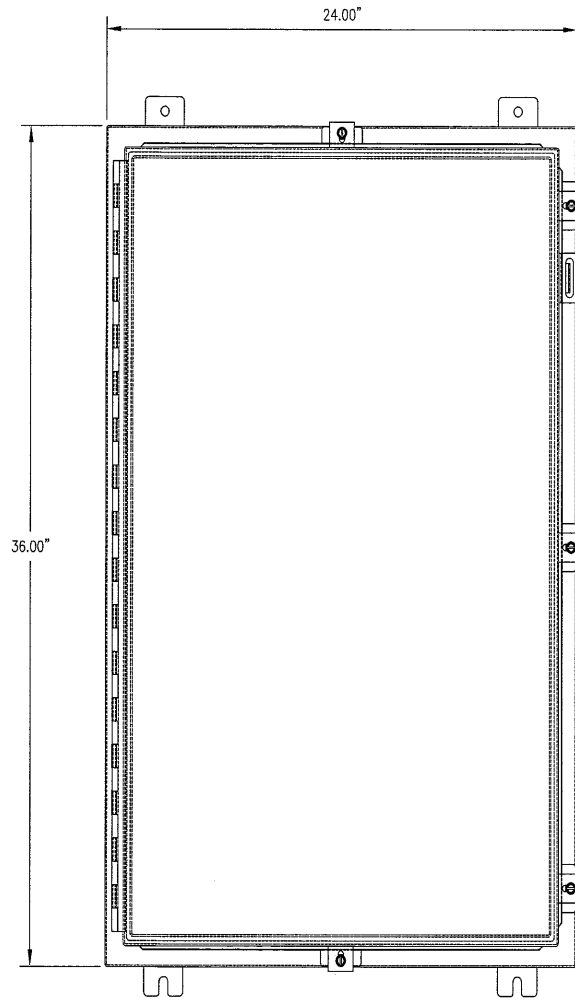
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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
 7481 SOUTH SAYERS AVE
 BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
 PC-4 WEST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416111
 FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1				
2	0	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STEI50)
3	3	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)

TERMINAL BLOCK DESCRIPTIONS

TB1

- C56-SP1
- C56-SP2
- C56-SP3
- 1144A
- 1144B
- 1145A
- 1145B
- 4113
- 4115
- 4116
- 4119
- 4120
- 4026
- 4028
- 4029
- 4032
- 4033
- 4034
- 4038
- 4040
- 4041
- 4044
- 4045
- 4046

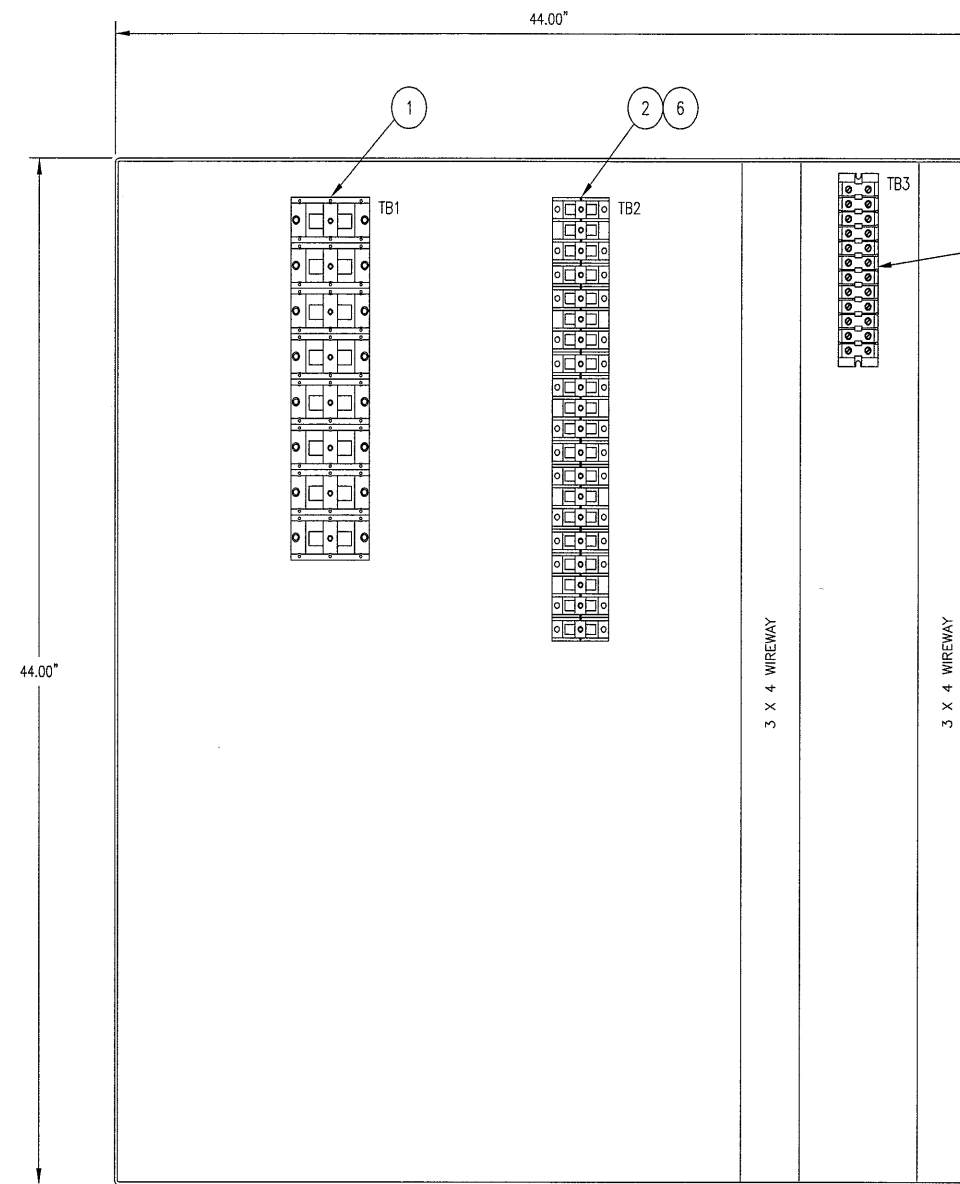
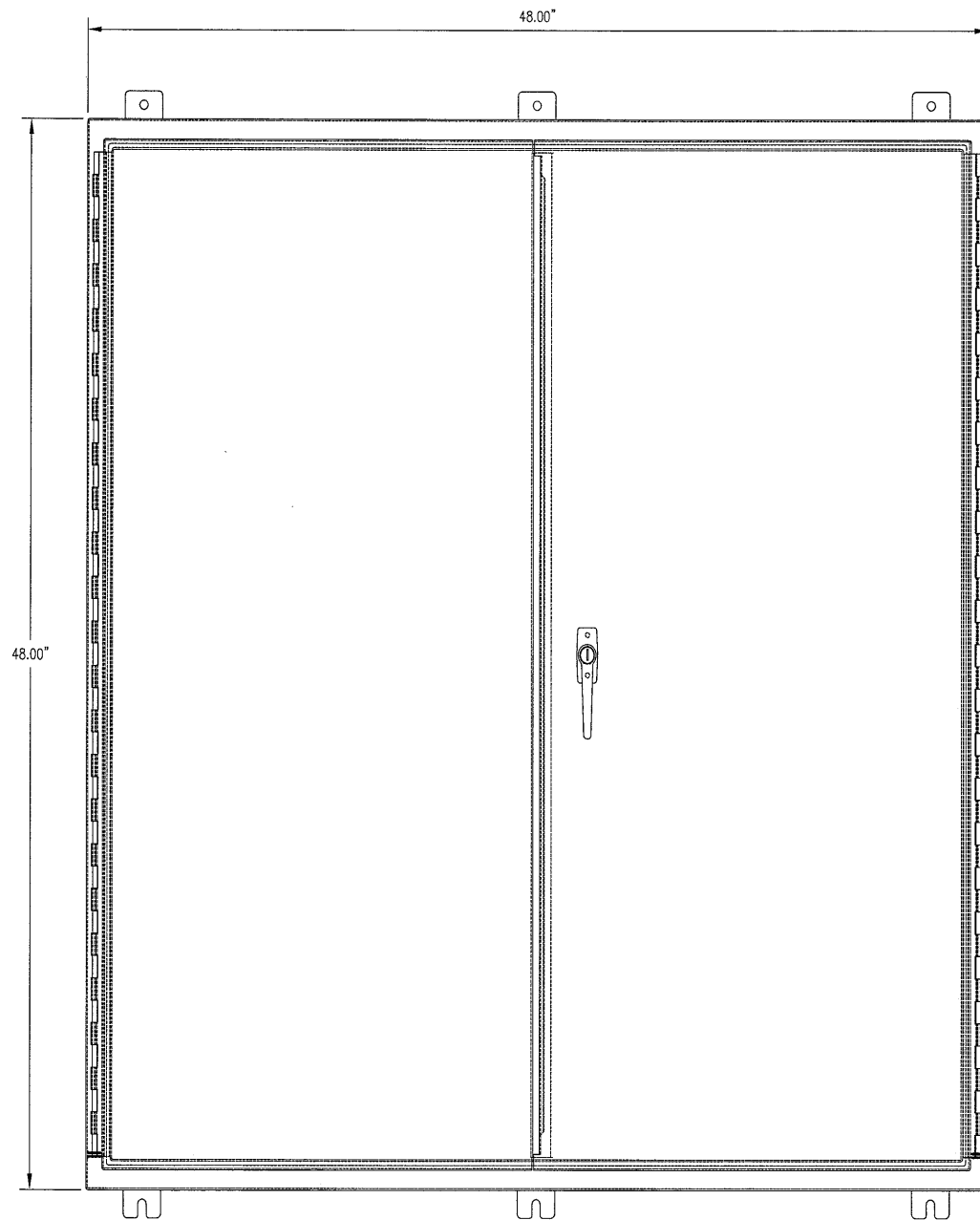
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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY	
					ATLANTIC ELECTRIC

PANATROL
CORPORATION
7451 SOUTH SAYERS AVE
BEDFORD PARK, IL 60638

CAPE FEAR BRIDGE
CC-2 WEST
TERMINAL CABINET

JOB No. 6416
APPROVED BY: YY
DESIGNED BY: YY
DRAWN BY: LVT
CHECKED BY: YY
DATE: 8/11/06
SCALE: 1=4 SIZE: D
DRAWING NO. 6416112



TERMINAL BLOCK DESCRIPTIONS

TB1	TB2	TB3
813-T1	927-T1	842-T1
814-T2	928-T2	843-T2
815-T3	929-T3	844-T3
GND	GND	
818-T1	731-T1	903-T1
819-T2	732-T2	904-T2
820-T3	733-T3	905-T3
GND	GND	
	602-L1	908-T1
	603-L2	909-T2
	604-L3	910-T3
	GND	
	708-T1	
	709-T2	
	710-T3	
	GND	
	P60-1	
	P60-2	
	P60-3	
	GND	

BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	8	1431126	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)
2	5	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STE150)
3	1	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)
6	5	1423552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STE150)

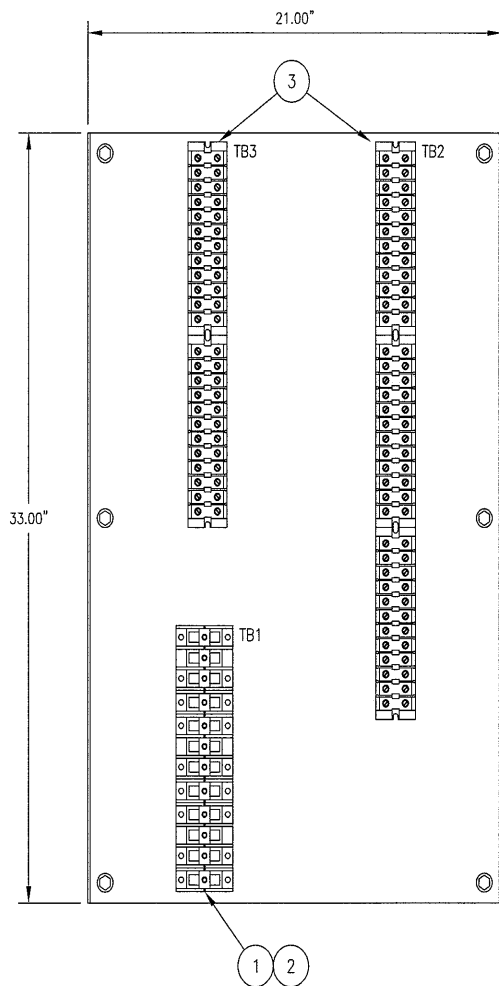
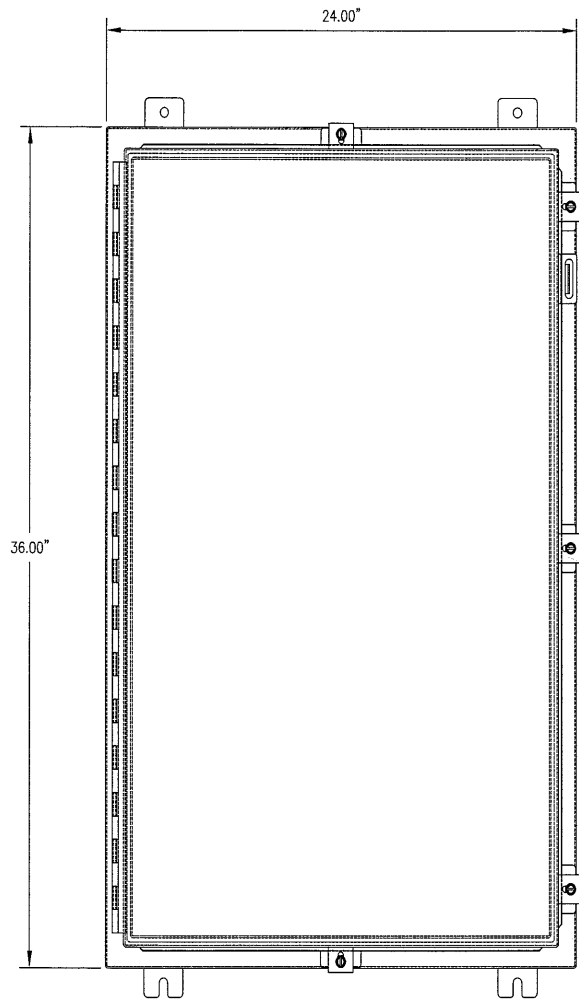
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A	8/14/06	ISSUED FOR APPROVAL	LVT	YY

PANATROL CORPORATION
 7481 SOUTH SAYRE AVE
 BEDFORD PARK, IL 60838

CAPE FEAR BRIDGE
 PC-6 WEST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: YY
 DESIGNED BY: YY
 DRAWN BY: LVT
 CHECKED BY: YY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416113
 FOR: ATLANTIC ELECTRIC



BILL OF MATERIALS

ITEM #	QTY	PART #	MANUFACTURER	DESCRIPTION
1	3	1421552	MARATHON	TERMINAL BLOCK 1-POLE POWER SPLICER (STEI50)
2	3	1423552	MARATHON	TERMINAL BLOCK 3-POLE POWER SPLICER (STEI50)
3	5	1512 STD	MARATHON	TERMINAL BLOCK 12 POLE 600VAC
4	1	NONE	ENCLOSURE INC.	ENCLOSURE
5	1	ECD18	CROUSE-HINDS	COMBINATION DRAIN AND BREATHER (ENGL50)

TERMINAL BLOCK DESCRIPTIONS

IB1	IB2	IB3
742-T1	C56-SP1	941-T1
743-T2	C56-SP2	942-T2
744-T3	C56-SP3	943-T3
GND	1144A	GND
P46-1	1144B	1010-T1
P46-2	1145A	1011-T2
P46-3	1145B	1012-T3
P46-4	4113	GND
P65-1	4115	P45-SP9
P65-2	4116	P45-SP10
P65-3	4119	P45-SP11
P65-4	4120	P45-SP12
	4026	4510B
	4028	4510C
	4029	4510D
	4032	4510-N
	4033	4521
	4034	4522
	4038	4523A
	4040	4524-N
	4041	4545
	4044	4546-N
	4045	P50-SP11
	4046	P50-SP12

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B	1/5/07	REVISED PER CABLE SCHEDULE	LVT	VY	
A	8/14/06	ISSUED FOR APPROVAL	LVT	VY	

PANATROL CORPORATION
 7481 SOUTH SAYERS AVE
 BELLEVILLE PARK, IL 60638

CAPE FEAR BRIDGE
 PC-8 WEST
 TERMINAL CABINET

JOB No. 6416
 APPROVED BY: VY
 DESIGNED BY: VY
 DRAWN BY: LVT
 CHECKED BY: VY
 DATE: 8/11/06
 SCALE: 1=4 SIZE: D
 DRAWING NO. 6416114
 FOR: ATLANTIC ELECTRIC