

DATE: October 25, 2023

DEPARTMENT OF GENERAL SERVICES  
BUREAU OF CAPITAL PROJECT DESIGN MANAGEMENT  
1800 HERR STREET  
HARRISBURG, PENNSYLVANIA

**ADDENDUM NO. 4**

on

**PROJECT NO. DGS C-0373-0009 PHASE 001**

**PROJECT TITLE - SCI Mahanoy - Repairs/Renovations to Switchgear & Generators**

**PROFESSIONAL:**

HF Lenz Company  
1407 Scalp Ave  
Johnstown, PA, 15904

**If you submitted a bid prior to this Addendum being issued, your bid has been discarded and you must re-submit your bid(s) prior to the bid opening date and time.**

GENERAL CHANGES – ALL CONTRACTS

Item 1 - The following are responses to bidder questions

Question 1: Bldg 14 Drawing E-409, One-line indicates a temporary 3,000A feeder from a tap box (Service B Main) to a temporary outdoor switchboard. During Thursdays walk-thru the facility personnel indicated that one power source to the temporary outdoor switchboard was going to be a problem. Please advise if this is going to change or if we are to bid it as shown.

Response: Please provide bids based on current documents.

Question 2: Bldg 14 Drawing E-409 Sequence Notes Phase 2, 2.1 Remove distribution covers disconnect each feeder from breaker on existing switchboard. 2.2 Splice temporary feeders to each existing outgoing feeder. Question how long can facility be without power while making these splices?

Response: All shutdowns to be coordinated with the facility per the Project Manual. Per DOC, the maximum shutdown duration (without the need for temporary power to maintain critical loads) is 8 hours. Refer to revised Project Manual issued under this addendum (No. 4) for clarification.

Question 3: Bldg 14 Drawing E-409. Temporary outdoor switchboard, is the electrical contractor required to provide a temporary pad or cribbing or will that be the responsibility of another trade?

Response: EC to provide all necessary provisions to support installation of outdoor temporary switchboard.

Question 4: Bldg 14 Drawing E-410 Sequence Note 1. Remove existing switchboard in its entirety. Question, how can we remove the existing switchboard if temporary cables are feeding out the rear access panels? Are we to cut the framing of the existing switchboard and slide it out? Please advise.

Response: Existing switchboard to be modified as necessary to facilitate demolition without disturbing temporary cables.

Question 5: Bldg 14 Drawing E-411 Sequence Notes 3.5 Extend Feeders from Cable Tap Box to Main Breaker on New Switchboard both sides. Question is it the intent that we use conduit and cable from the tap boxes to the new switchboard for termination?

Response: Yes.

Question 6: Bldg 14 What amount of time is acceptable for shutdowns during installation of the temporary switchboard and the new permanent switchboard? Is there any critical power that cannot be down for extended periods of time?

Response: All shutdowns to be coordinated with the facility per the Project Manual. Per DOC, the maximum shutdown duration (without the need for temporary power to maintain critical loads) is 8 hours. Refer to revised Project Manual issued under this addendum (No. 4) for clarification.

Question 7: Bldg 14 What phase is the lighting, receptacles, and fire alarm under?

Response: Supporting lighting/receptacles/fire alarm work may be completed at any time during the project

Question 8: Could another Pre Bid be held allowing us the opportunity to bid this project?

Response: Pre Bid meeting attendance is no longer mandatory to bid the project per Item 2 under Addendum #1.

Additional site visits are permitted, but must be coordinated with the institution (Institution Contact Information: Charles Fabian: 570-773-2158, chfabian@pa.gov)

Question 9: Bldg 14 There are no carbon monoxide detectors shown. Please let us know if they are required and we can provide combination smoke and CO detection.

Response: No carbon monoxide detectors required.

Question 10.1 For the Paralleling Switchgear Specifications - Section 261313, can you please confirm if the following items below are required for the paralleling switchgear?

1. For 2.9 System Master Control Section) D.2.d.1) - Does the paralleling gear require redundant I/O? Specification is indicating this is an optional feature.

2. For 2.11 Remote Operator Interface Terminal - This section indicates [Optional], does this gear require the Remote Operator Interface Terminal?

3. For 2.12 Remote Desktop Station - This section indicates [Optional], does this project require the remote desktop station?

4. For 2.16 PCS System Simulator - This section indicates [Optional], does this project require the PCS System Simulator?

Response: Refer to this addendum for specification section 261313 revisions

Question 10.2 1: Can you please confirm if the paralleling gear is a 3-wire or a 4-wire system? The specifications indicate 3-wire and in MV applications, 4-wire is only needed when there is a single-phase load. The feeder schedule for new work also reflects that there is no neutral. If a 4-wire system is required, then the generator would need to have a neutral due to how wiring would be conducted within the Paralleling Switchgear. A 4-wire system would require transition sections within the paralleling gear which would increase the footprint of the gear.

Response: Parallel gear shall be 3-wire system with a neutral landing pad on each main breaker to terminate the neutral cable from the utility feed. The generator is a 4-wire system, but the neutral is terminated at the neutral ground resistor (NGR) located at the unit per the drawings.

## SPECIFICATION CHANGES – ALL CONTRACTS

Item 1 - Section 261313, Page 5 - Revise Article 1.8 to read as follows:

### 1.8 SPECIAL TOOLS AND CRITICAL COMPONENTS

A. Critical components shall be provided for each type and size of unit installed. At a minimum, the following shall be provided:

1. Provide the minimum as recommended by the manufacturer.
2. Provide [1] set of each type of control fuse installed within equipment
3. Provide [1] set of each type of indicating lights installed within equipment
4. Portable Circuit Breaker Lifting Device
5. Circuit Breaker Test Cabinet and Test Jumper Cable
6. Provide [1] motorized remote control racking accessory
7. Provide [2] additional breakers for new paralleling gear

Item 2 - Section 261313, Page 18 - Delete Paragraph 2.9.D.2.d in its entirety.

Item 3 - Section 261313, Page 22 - Delete Article 2.11 and Article 2.12 in their entirety.

Item 4 - Section 261313, Page 24 - Delete Article 2.16 in its entirety.

Item 5 - Section 262414, Page 1 - Delete Paragraph 1.2.A in its entirety.

Item 6 - Section 263213, Page 6 - Revise ambient temperatures from 122 degrees F (50 degrees C) to 104 degrees F (40 degrees C) in Part 2.2.A.2.

Item 7 - Section 263213, Page 8 - Revise ambient temperatures from 122 degrees F (50 degrees C) to 104 degrees F (40 degrees C) in Part 2.3.C.4.

Item 8 - Section 263213, Page 8 - Revise ambient temperatures from 122 degrees F (50 degrees C) to 104 degrees F (40 degrees C) in Part 2.3.C.11.

Item 9 - Section 015000, Page 2 - The maximum shutdown duration (without the need for temporary power to maintain critical loads) is 8 hours.

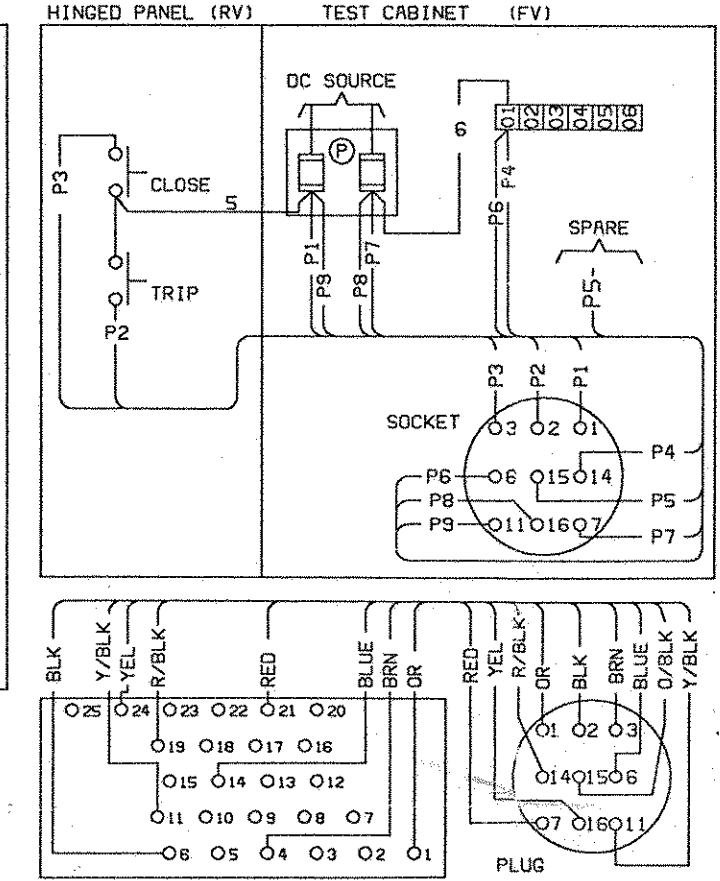
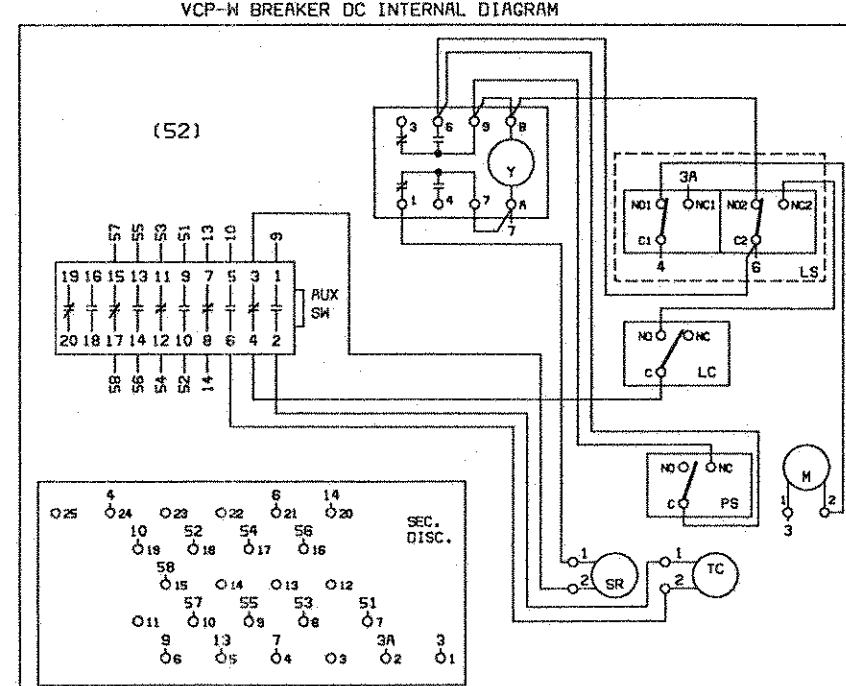
Item 10 - Section 261313 Appendix Items: Existing 5KV original switchgear control diagrams and original submittal drawings are attached to this addendum for reference.

DRAWING CHANGES – ALL CONTRACTS

Item 1 -

IDENT	TYPE	DESCRIPTION
CS	H2	CONTROL SWITCH
H		TRUCK OPERATED CELL LIMIT SWITCH (TOC)
IQDP2	IQDP2	SHOWN FOR BREAKER IN TEST POSITION
IQD	IQDATA	LINE METERING & VOLTAGE PROT. SYSTEM.
S		LINE METERING SYSTEM.
		MECH. OPERATED CELL AUXILIARY SWITCH (MOC)
		SHOWN FOR BREAKER IN OPEN POSITION
25(1)	CVX	SYNCHRONISM-CHECK RELAY
59-1(2)	CV	UNDERVOLTAGE RELAY
27X(1)	MGS	AUXILIARY RELAY TO DEVICE 27
32	CW	DIRECTIONAL POWER RELAY
43	W2	MANUAL TRANSFER SWITCH
69	W2	MANUAL TRANSFER SWITCH
47	CP	PHASE SEQUENCE VOLTAGE RELAY
50GS	IT	INSTANTANEOUS OVERCURRENT GROUND RELAY
51	CO	OVERCURRENT RELAY (TIME)
51N	CO	OVERCURRENT RELAY
51/50	CO	OVERCURRENT RELAY (TIME AND INST.)
52	VCPW	VACUUM CIRCUIT BREAKER
LC SW		BKR LATCH CHECK SWITCH
LS		BKR WINDING MOTOR LIMIT SWITCH
M		BKR SPRING WINDING MOTOR
PS		BKR POSITION SWITCH
SR		BKR SPRING RELEASE COIL
TC		BKR TRIP COIL
Y		BKR ANTI-PUMP RELAY
62(1)	AGA	TIME-DELAY RELAY
86(1)	WL-2	LOCK OUT RELAY
81	MDF	FREQUENCY RELAY
87B(1)	KAB	BUS DIFFERENTIAL PROTECTIVE RELAY
87T	HU	XFMR. DIFFERENTIAL PROTECTIVE RELAY

DRAWING DESCRIPTION	DRAWING NUMBER	NO. OF SHEETS	REV. NUMBER
1 MECHANICAL MASTER DWG. LIST	6588EMD		REF
2 ELECTRICAL MASTER DWG. LIST			
3 ELECTRICAL LIST OF APPARATUS			
4 ELECTRICAL SEQUENCE OF OPER.	EMD	1	4
5			
6 THREE LINE DIAGRAM	Y01		3
7	Y02		3
8	Y03		3
9	Y04		2
10			
11 SCHEMATIC DIAGRAM	S01		2
12	S02		4
13	S03		2
14	S04		1
15	S05		2
16 CONN DIAG VERT. SECT. 1	H01	2	1
17	H02		1
18	H03		1
19	H04		1
20	H05		3
21	H06		3
22	H07		3
23	H08		1
24	H09		1
25	H10		3
26	H11		1
27	H12		1
28	H13		1
29	H14		2



CONTACT	POSITION	
	MANUAL	AUTO
A1-B1		X
A12-B12	X	
A11-B11		X
C1-D1		X
C12-D12	X	
C11-D11		X
E1-F1	X	
E12-F12		X
E11-F11	X	
A5-B5		X
A6-B6	X	
A7-B7		X
C5-D5		X
C6-D6	X	
C7-D7		X
E5-F5	X	
E6-F6		X
E7-F7	X	

CONTACT	POSITION			
	PULL TRIP	TRIP	OFF AFTER TRIP	CLOSE
A1-B1				X
A12-B12			X	X
A11-B11	X	X		
C1-D1				X
C12-D12			X	X
C11-D11	X	X		
E1-F1			X	X
E12-F12	X	X		
E11-F11			X	X
A5-B5	X	X	X	X
A6-B6	X	X	X	X
A7-B7	X	X	X	X
C5-D5	X	X	X	X
C6-D6	X	X	X	X
C7-D7	X	X	X	X
E5-F5	X	X	X	X
E6-F6	X	X	X	X
E7-F7	X	X	X	X

**SEQUENCE OF OPERATION**

NORMAL OPERATION IS WITH BOTH MAIN BREAKERS CLOSED AND THE TIE BREAKER AND TWO GENERATOR FEEDER BREAKERS (CB22 & CB23) OPEN.

PARALLEL PERMISSIVE IN MANUAL MODE ONLY

PUT THE DEVICE 43 IN MANUAL POSITION AND THEN BY USING A KEY, UNLOCK THE DEVICE 69 SWITCH AND TURN IT TO THE PARALLEL POSITION. AT THIS TIME YOU CAN THEN PARALLEL BOTH MAINS AND THE TIE BREAKER SOURCE. A SYNC CHECK RELAY WILL PREVENT THE TIE BREAKER FROM BEING CLOSED IF THE TWO MAIN BUSES ARE NOT SYNC.

IN THE EVENT OF A FAULT OR OVERCURRENT SITUATION, THE MAIN BREAKERS WILL BE TRIPPED. ON TRANSFORMER FAULT, REVERSE POWER, AND UNDER OR OVER FREQUENCY WILL CAUSE THE MAINS TO TRIP AND LOCKED OUT. ON A BUS FAULT, ALL BREAKERS ON THAT BUS WILL BE TRIPPED AND LOCKED OUT.

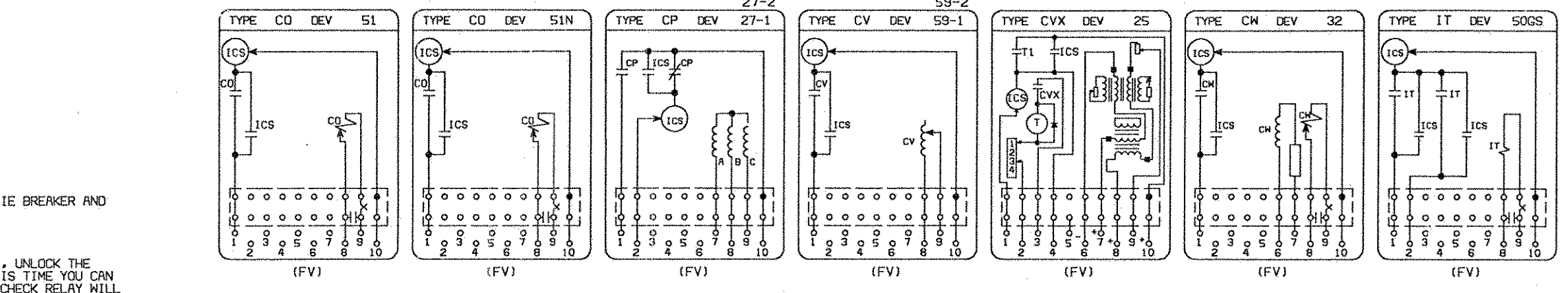
AUTOMATIC MODE (DEVICE 43 IN "AUTO" POSITION)

UPON LOSS OF VOLTAGE TO A MAIN, A TIME DELAY OF .5 TO 5 SECONDS IS INITIATED. IF THE VOLTAGE IS NOT RESTORED TO THE MAIN AND THE OTHER MAIN HAS VOLTAGE, AFTER A TIME DELAY THAT MAIN WILL TRIP AND THE TIE WILL CLOSE (OPEN TRANSITION).

IF VOLTAGE IS RESTORED TO A PREVIOUSLY LOST MAIN, A TIME DELAY OF 30 TO 300 SECONDS IS INITIATED. IF VOLTAGE REMAINS AFTER THE TIME DELAY THE TIE BREAKER WILL TRIP AND THE RESTORED MAIN WILL CLOSE (OPEN TRANSITION).

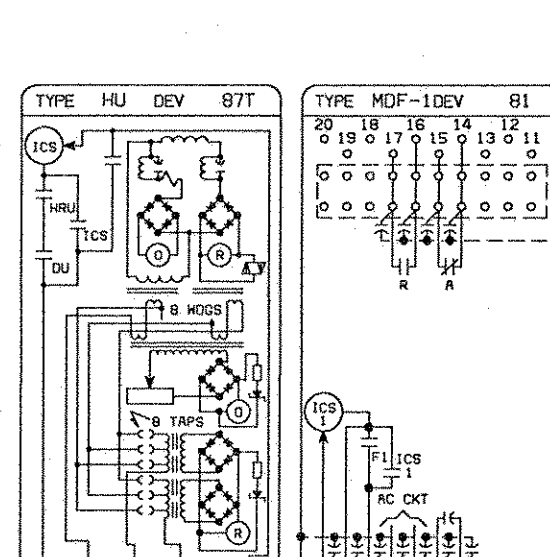
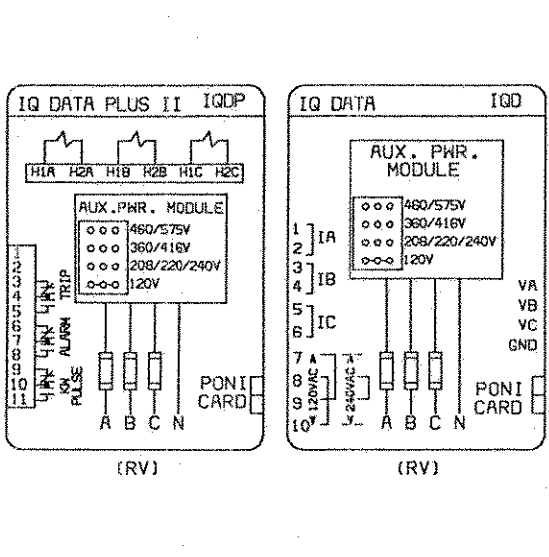
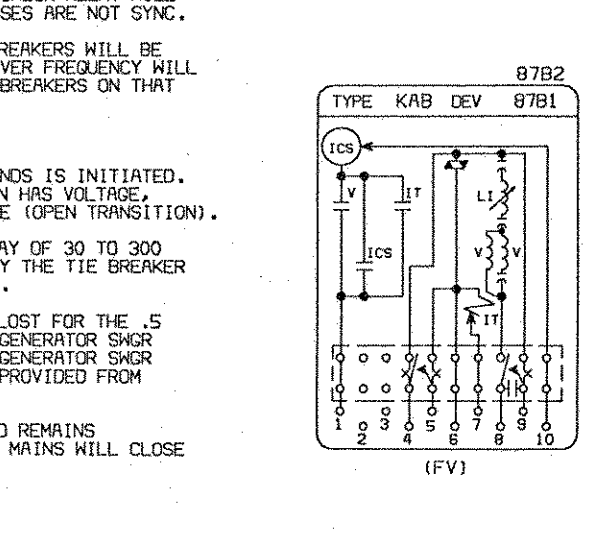
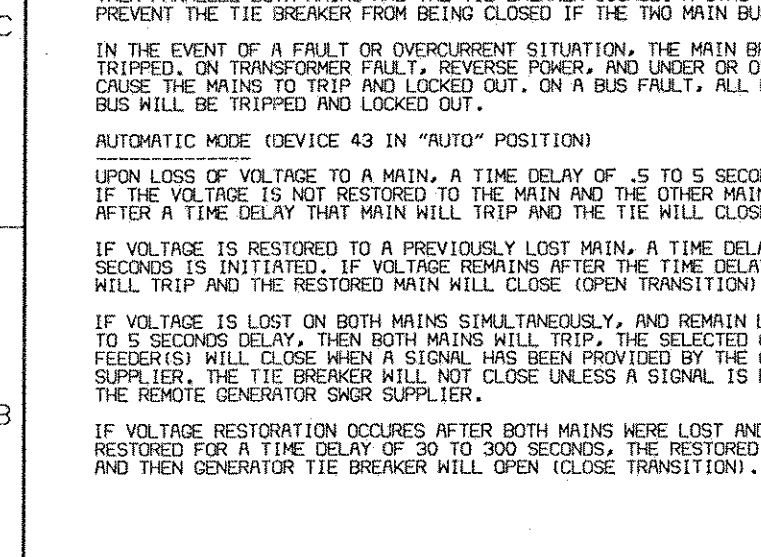
IF VOLTAGE IS LOST ON BOTH MAINS SIMULTANEOUSLY, AND REMAIN LOST FOR THE .5 TO 5 SECONDS DELAY, THEN BOTH MAINS WILL TRIP, THE SELECTED GENERATOR SMGR FEEDER(S) WILL CLOSE WHEN A SIGNAL HAS BEEN PROVIDED BY THE GENERATOR SMGR SUPPLIER. THE TIE BREAKER WILL NOT CLOSE UNLESS A SIGNAL IS PROVIDED FROM THE REMOTE GENERATOR SMGR SUPPLIER.

IF VOLTAGE RESTORATION OCCURS AFTER BOTH MAINS WERE LOST AND REMAINS RESTORED FOR A TIME DELAY OF 30 TO 300 SECONDS, THE RESTORED MAINS WILL CLOSE AND THEN GENERATOR TIE BREAKER WILL OPEN (CLOSE TRANSITION).



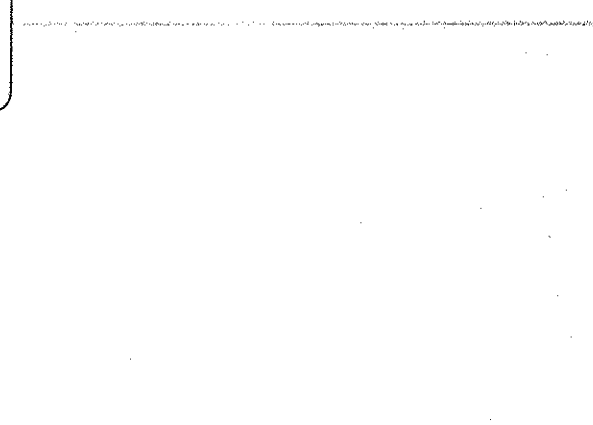
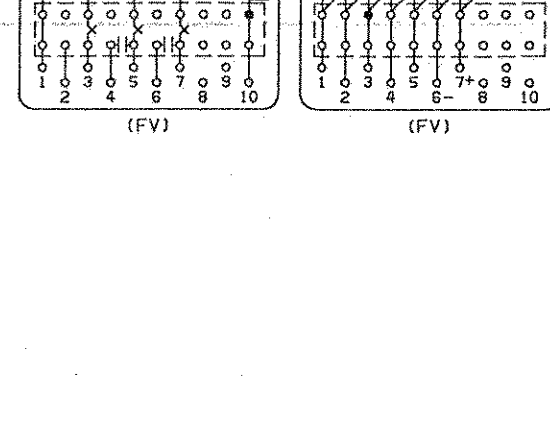
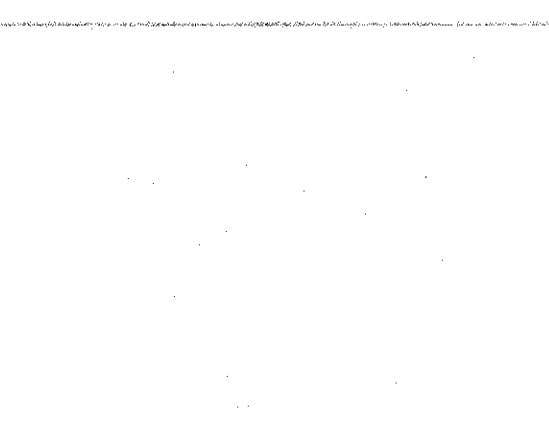
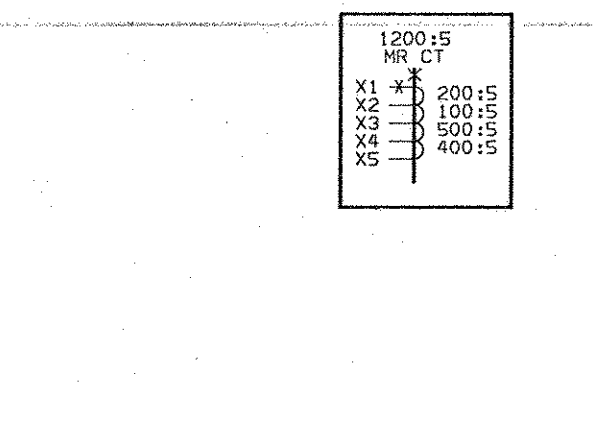
CONTACT	POSITION	
	PARALLEL	NORMAL
A1-B1		X
A12-B12	X	
A11-B11		X
C1-D1		X
C12-D12	X	
C11-D11		X
E1-F1	X	
E12-F12		X
E11-F11	X	
A5-B5		X
A6-B6	X	
A7-B7		X
C5-D5		X
C6-D6	X	
C7-D7		X
E5-F5	X	
E6-F6		X
E7-F7	X	

CONTACT	POSITION		
	TRIP	RESET	
A1-B1		X	
A12-B12	X		
A11-B11			X
C1-D1	X		
C12-D12			X
C11-D11	X		
E1-F1			X
E12-F12	X		
E11-F11	X		
A5-B5			X
A6-B6	X		
A7-B7			X
C5-D5	X		
C6-D6	X		
C7-D7	X		
E5-F5	X		
E6-F6	X		
E7-F7	X		

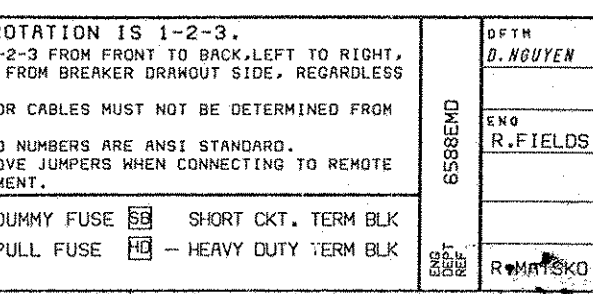
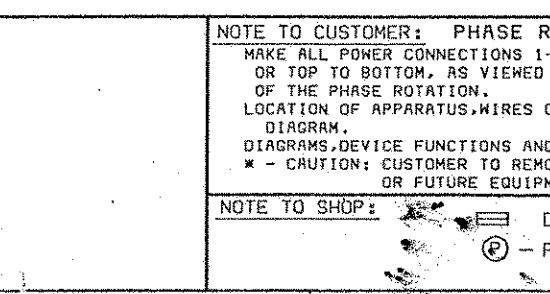
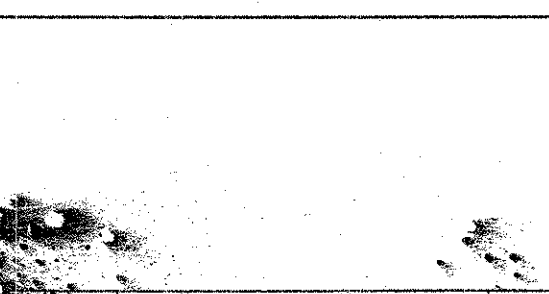
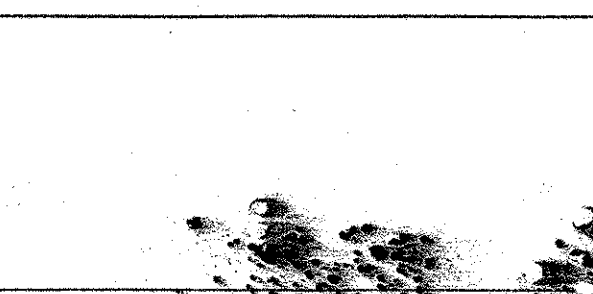


CONTACT	POSITION	
	TRIP	RESET
A1-B1		X
A12-B12	X	
A11-B11		X
C1-D1	X	
C12-D12		X
C11-D11	X	
E1-F1		X
E12-F12	X	
E11-F11	X	
A5-B5		X
A6-B6	X	
A7-B7		X
C5-D5	X	
C6-D6	X	
C7-D7	X	
E5-F5	X	
E6-F6	X	
E7-F7	X	
A5-H5	X	
A6-H6		X
A7-H7	X	
J5-J5		X
J6-J6	X	
J7-J7		X

CONTACT	POSITION		
	TRIP	RESET	
A1-B1		X	
A12-B12	X		
A11-B11			X
C1-D1	X		
C12-D12			X
C11-D11	X		
E1-F1			X
E12-F12	X		
E11-F11	X		
A5-B5			X
A6-B6	X		
A7-B7			X
C5-D5	X		
C6-D6	X		
C7-D7	X		
E5-F5	X		
E6-F6	X		
E7-F7	X		
A5-H5	X		
A6-H6			X
A7-H7	X		
J5-J5			X
J6-J6	X		
J7-J7			X



NO.	DATE	BY	DESCRIPTION
1	07/23/92	D. NGUYEN	REVISED SEQ. OF OPERATION & ELEC. REF. LIST.
2	08/18/92	R. MATSKO	REVISED SEQ. OF OPERATION AND DWG LIST.
3	09/17/92	R. MATSKO	REVISED ELEC. REF. LIST.
4	01/22/93	R. MATSKO	REVISED ELEC. REF. LIST.



**Westinghouse**

INDOOR VACUUM SWITCHGEAR ELECTRICAL MASTER DRAWING

50VCP-W250

6588EMD

NOTE TO CUSTOMER: PHASE ROTATION IS 1-2-3. MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD. \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP: DUMMY FUSE (SF) SHORT CKT. TERM BLK (P) - PULL FUSE (H) - HEAVY DUTY TERM BLK

DATE: 08/18/92  
BY: D. NGUYEN  
DATE: 6/24/92  
BY: R. FIELDS  
DATE: 6/25/92  
BY: R. MATSKO

TITLE: SCI MAHONEY PRISON FRACKVILLE, PA.

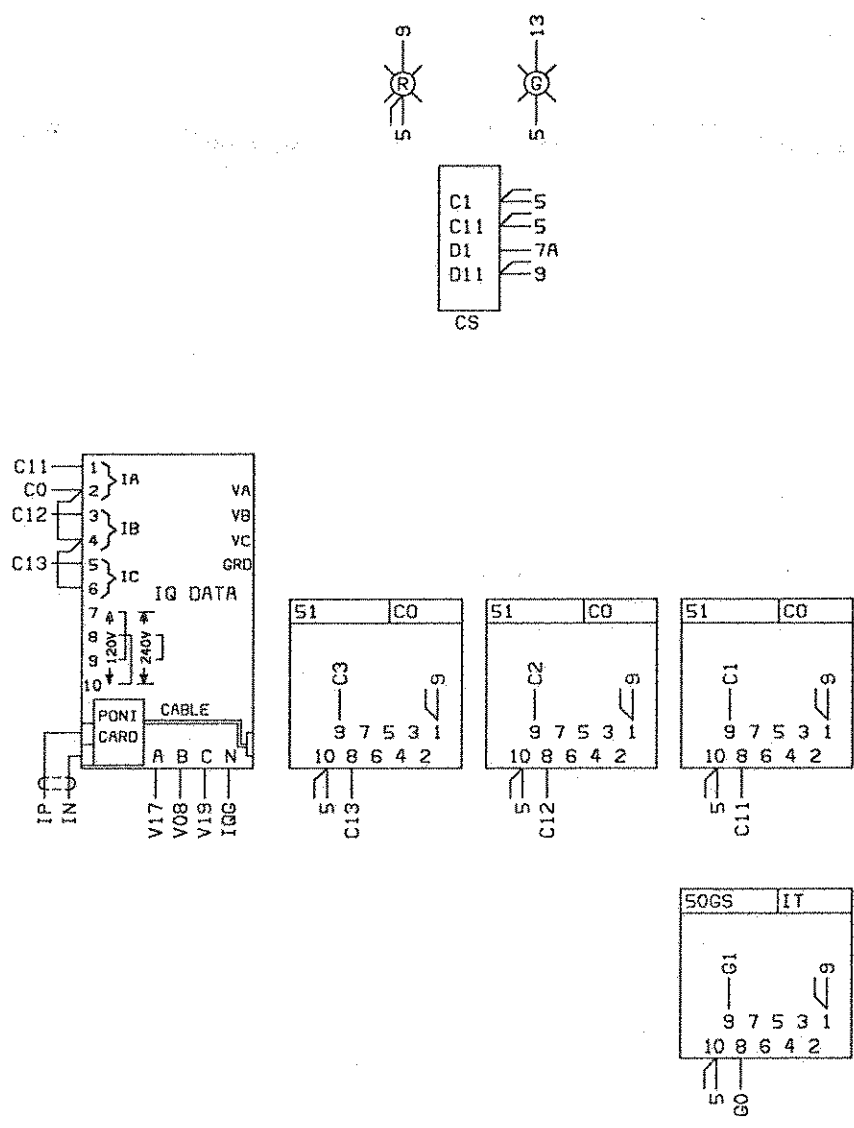
SHEET 1 OF 1



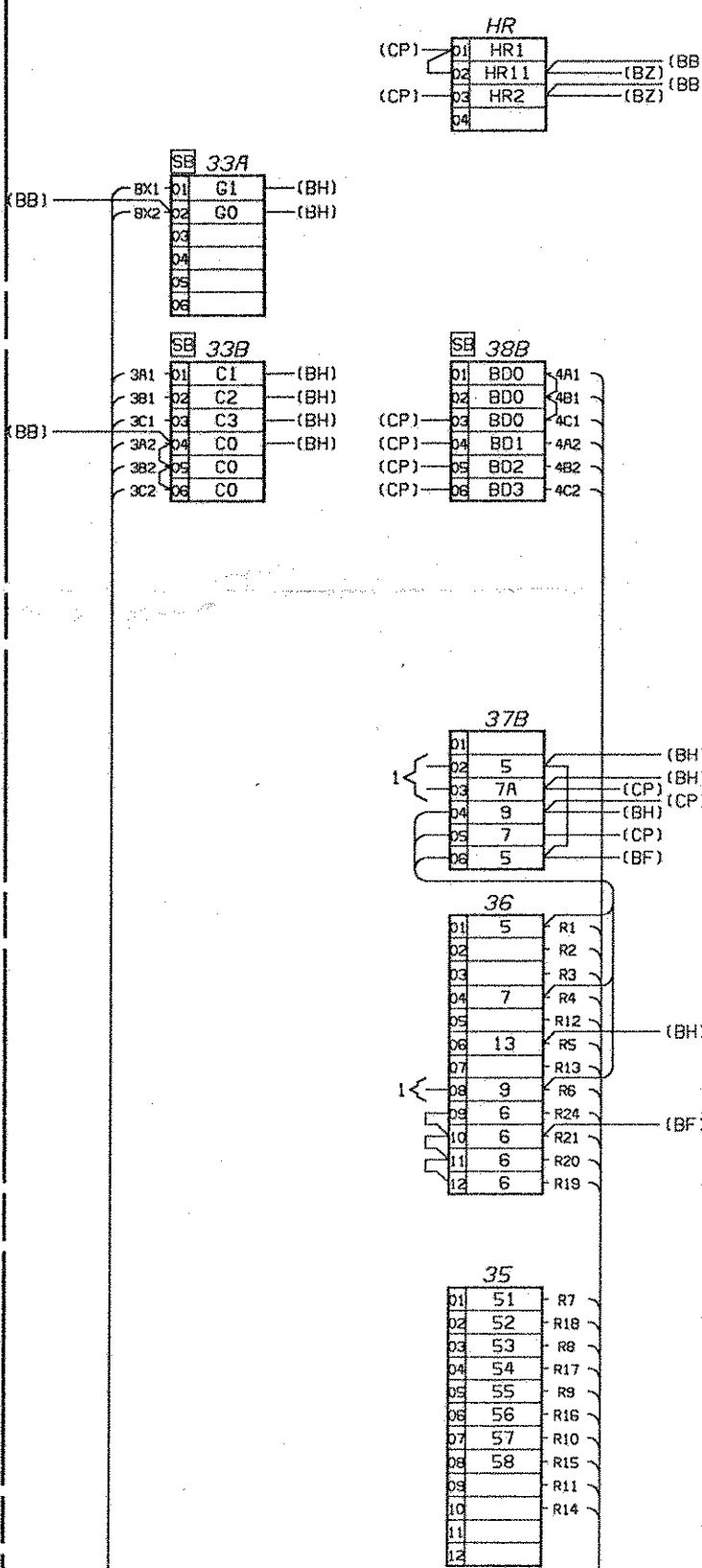
VERTICAL SECTION # 1  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

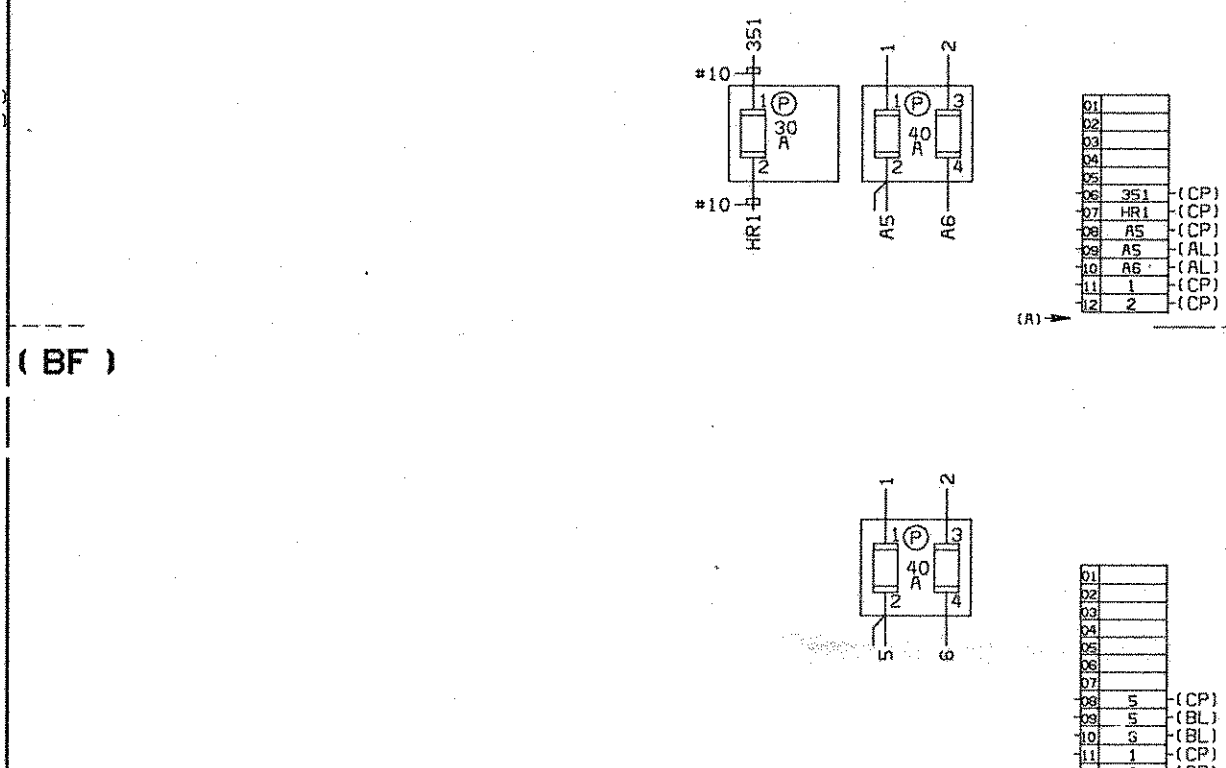
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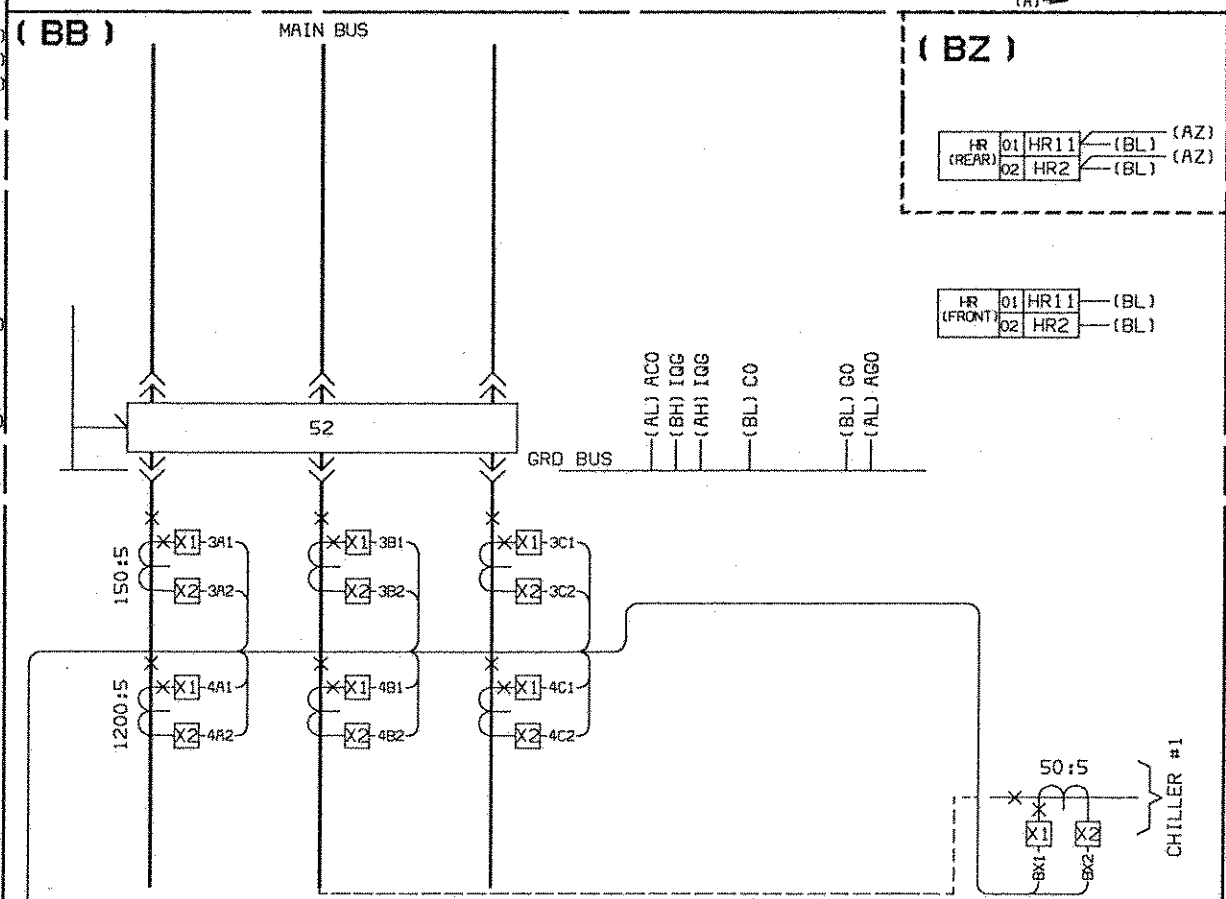
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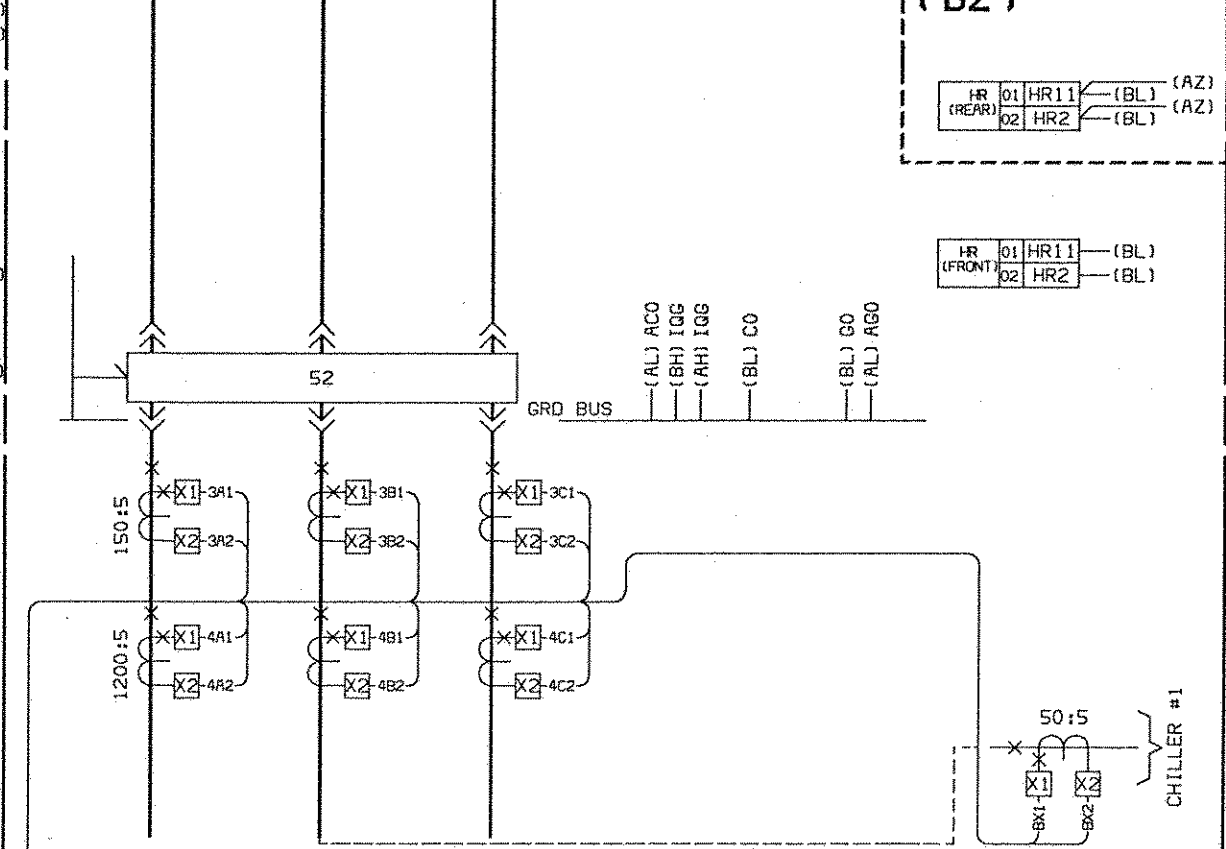
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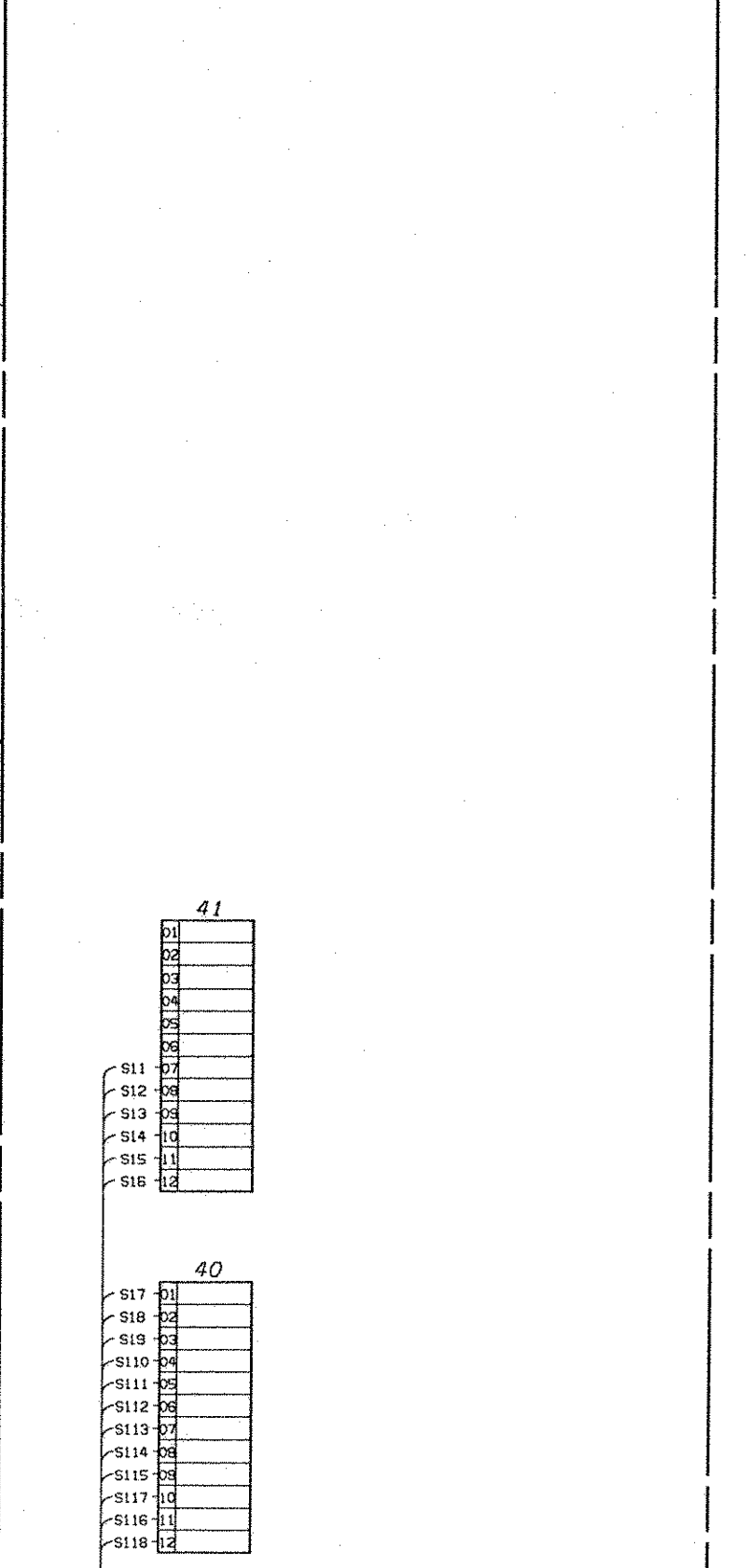
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(BB)



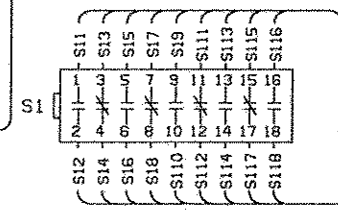
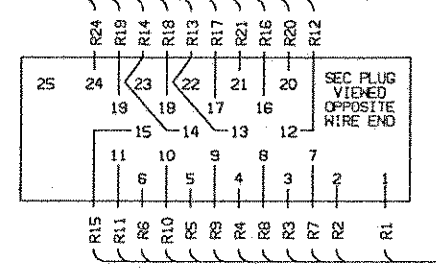
(BR)



REMOTE GENERATOR CONTROL ①

LEFT SIDE SHEET

RIGHT SIDE SHEET



(B) COMPARTMENT (FRONT VIEW)

**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION; CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
#14 WIRE REQUIRED, EXCEPT AS NOTED.  
DUMMY FUSE (SF) SHORT CKT. TERM BLK (SB) PULL FUSE (PF) HEAVY DUTY TERM BLK (HB)

DFTN WALLACE	DATE 01/27/92	<b>Westinghouse</b>	
ENG R.FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
DESCRIPTION INDOOR VAC-LAD-W SWITCHGEAR		SIZE 179	NO 127
DRAWN R.MATSKO		SHEET 1 OF 2	
PROJECT NO. 6588H01		REV. 6082	

5.0.71Y6588  
C.O.BSR-4501.4  
CHANGE





1 1 10 9 8 7 6 5 4 3 2 1

REMOTE GENERATOR CONTROL (1)

A COMPARTMENT (FRONT VIEW)

VERTICAL SECTION # 2  
UPPER COMPARTMENT

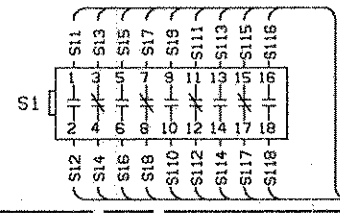
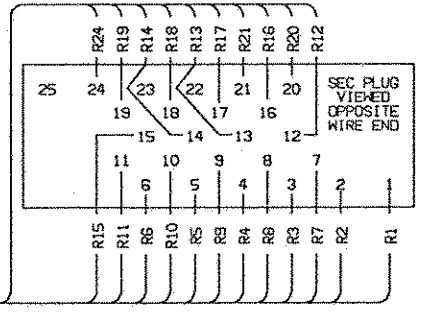
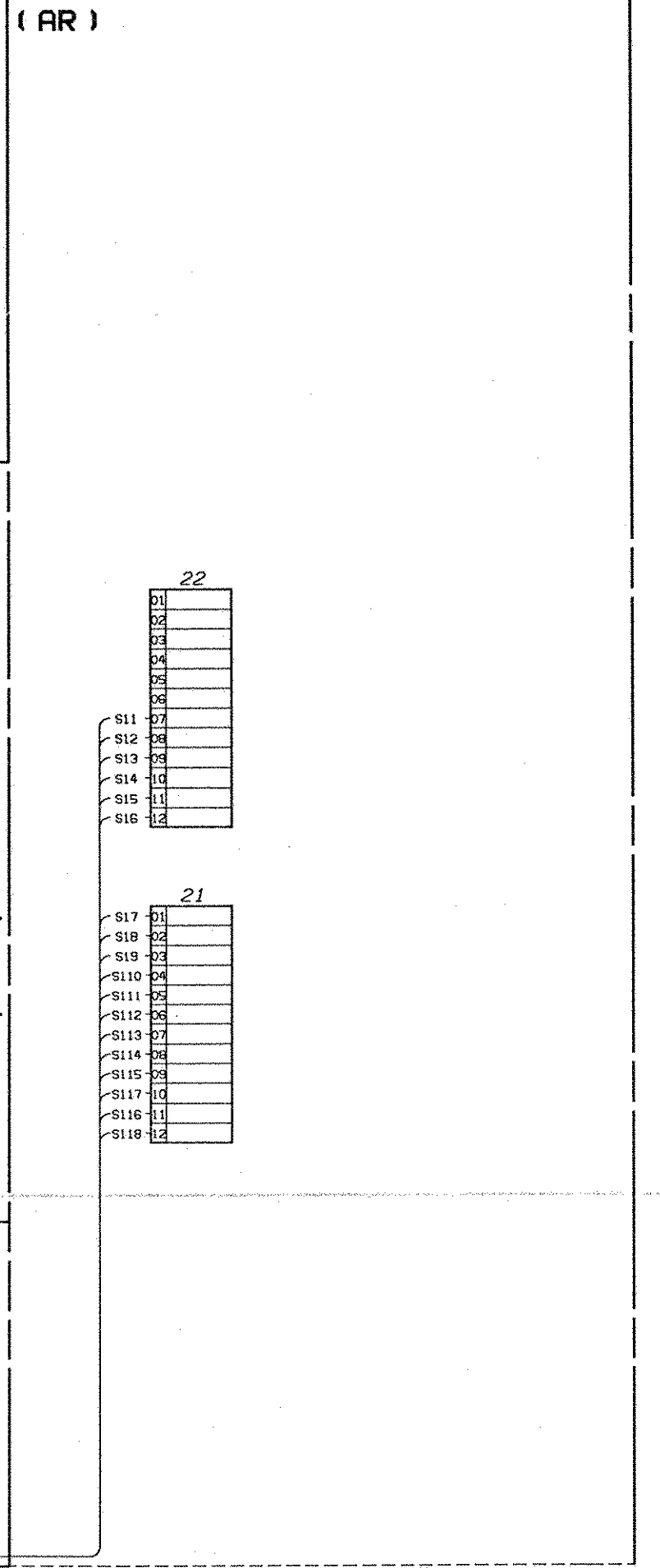
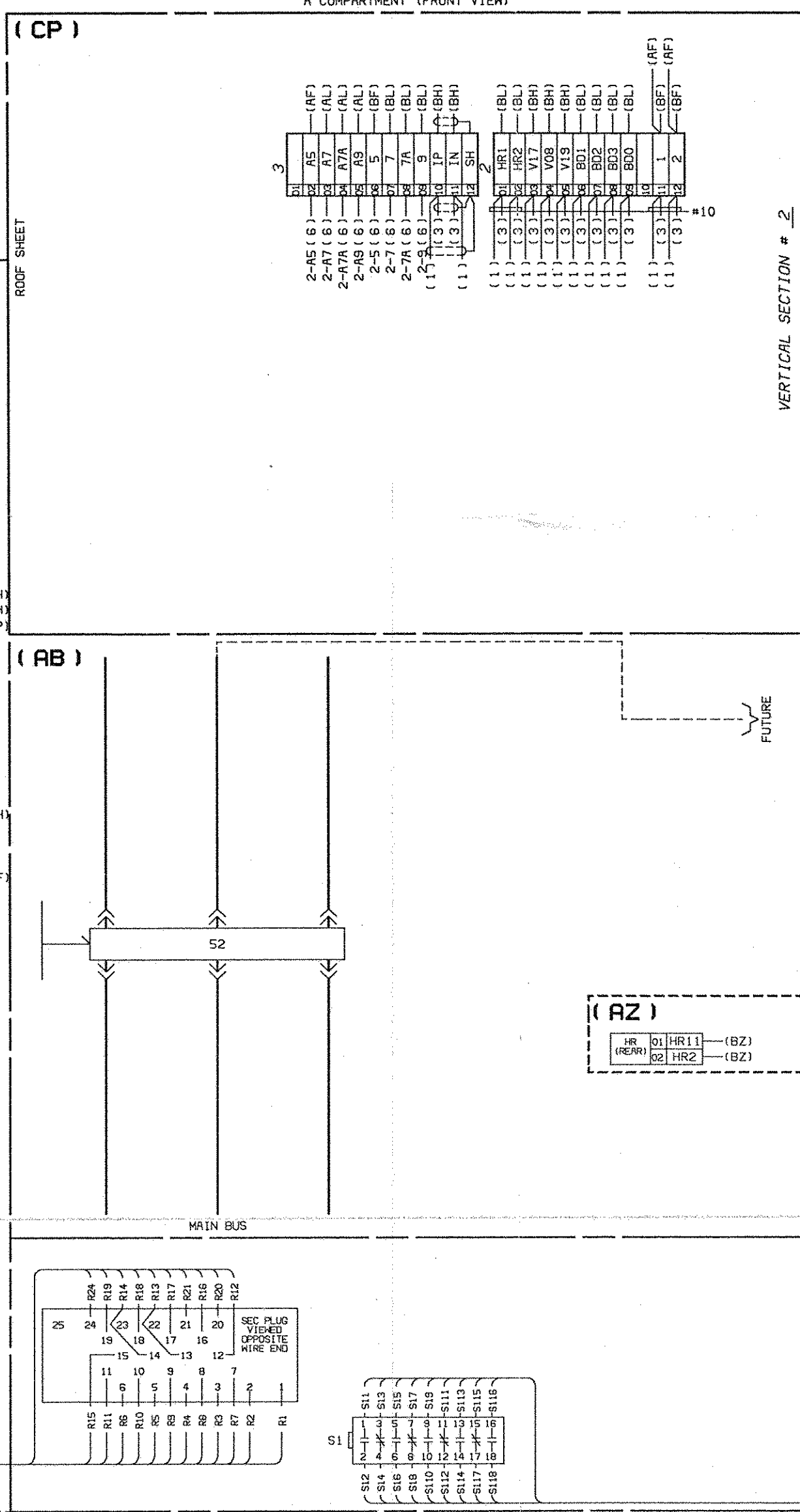
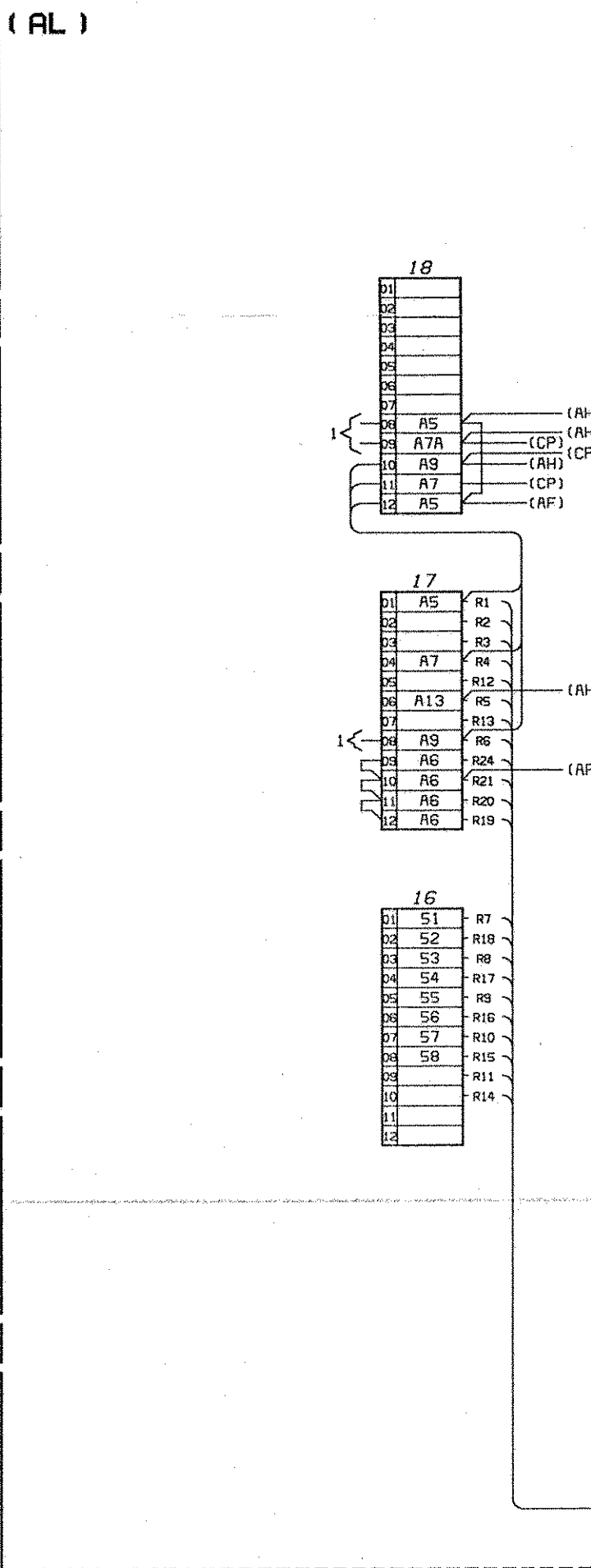
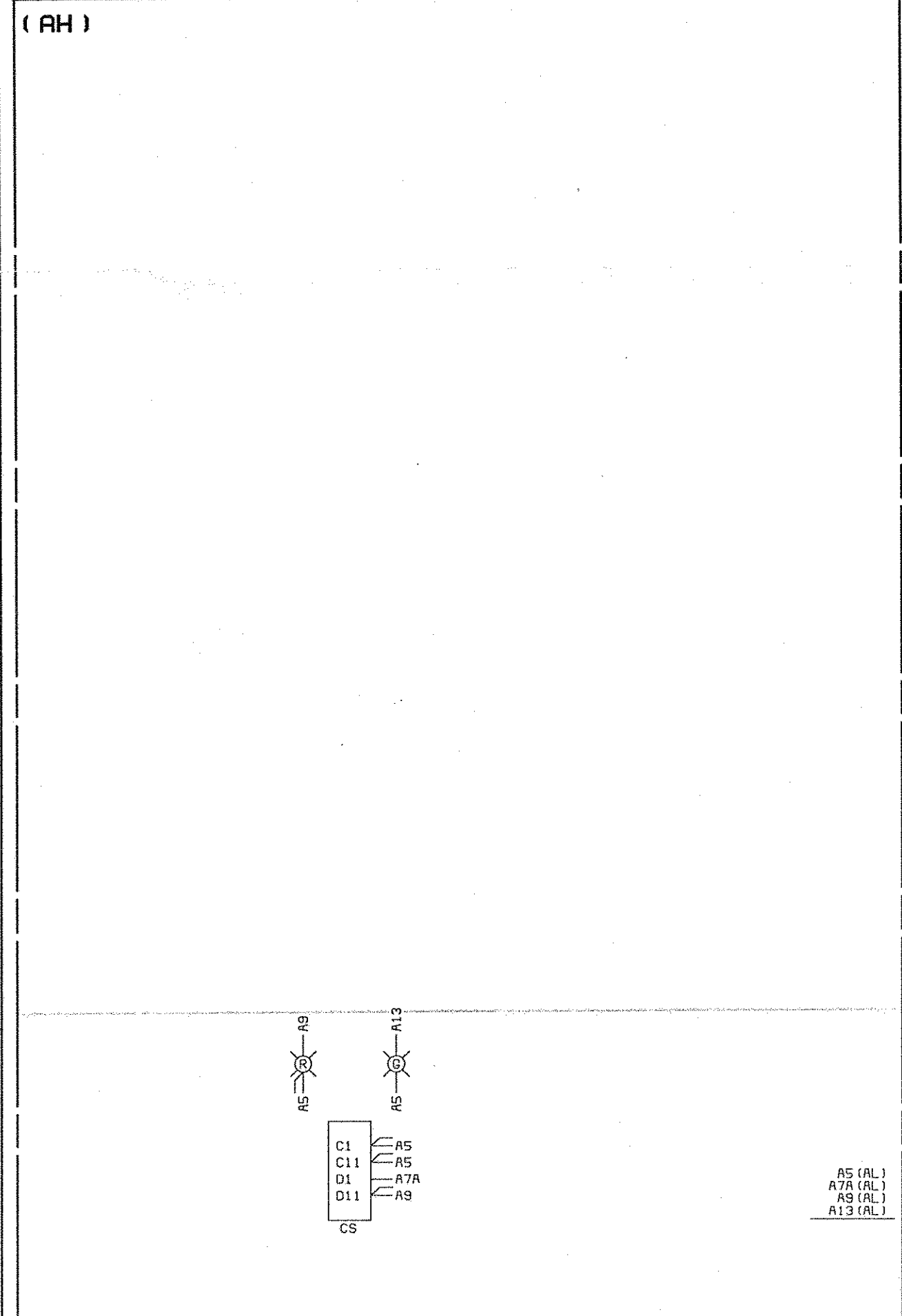
HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

VERTICAL SECTION # 2

RIGHT SIDE SHEET

F  
E  
D  
C  
B  
A



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB	TITLE CONNECTION DIAGRAM VERT. SECT. 2	
SIZE	FSC	DWG NO. 6588H024
SHEET 2 OF 2		

1 1 10 9 8 7 6 5 4 3 2 1

6062



VERTICAL SECTION # 3  
LOWER COMPARTMENT

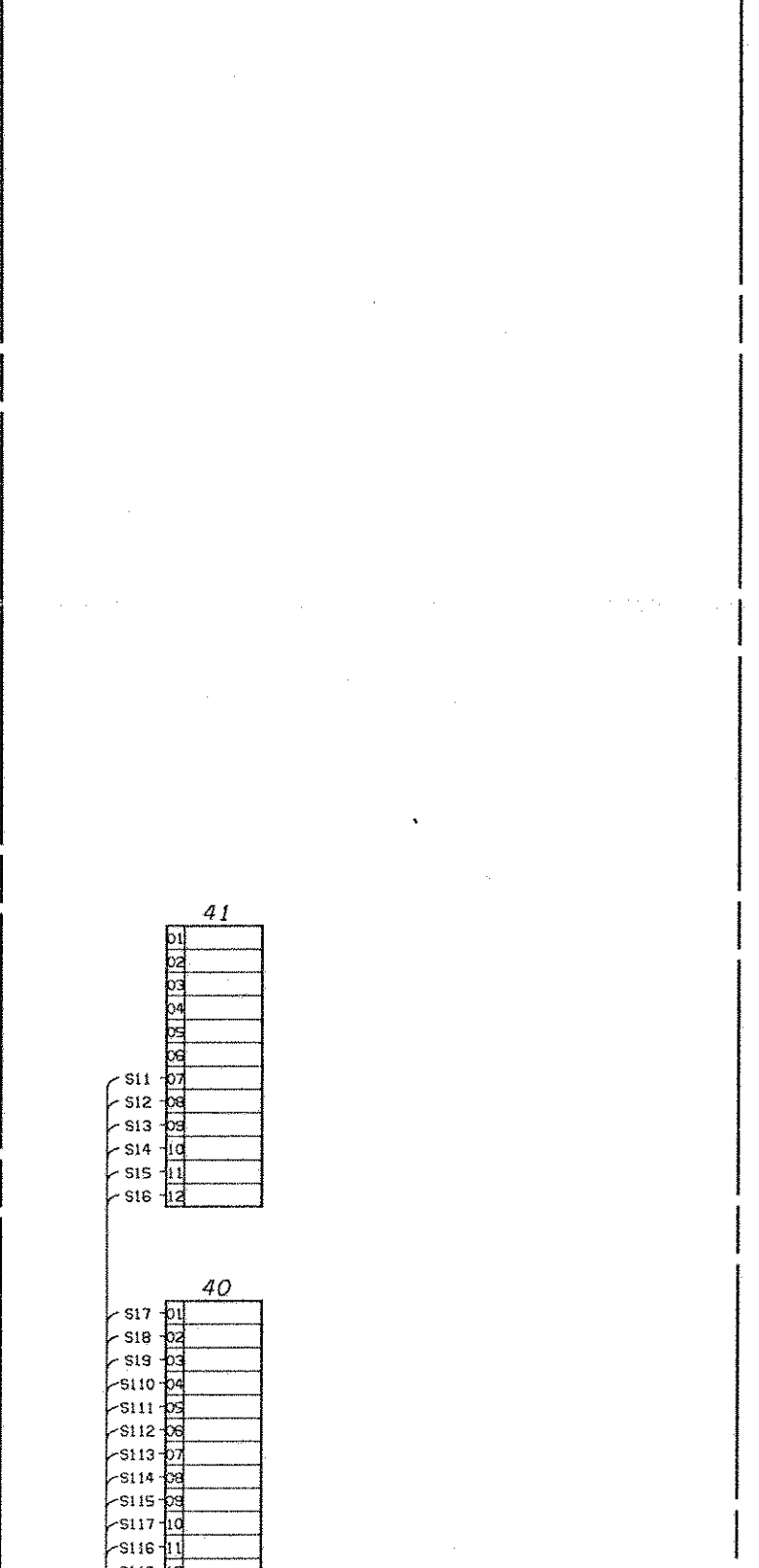
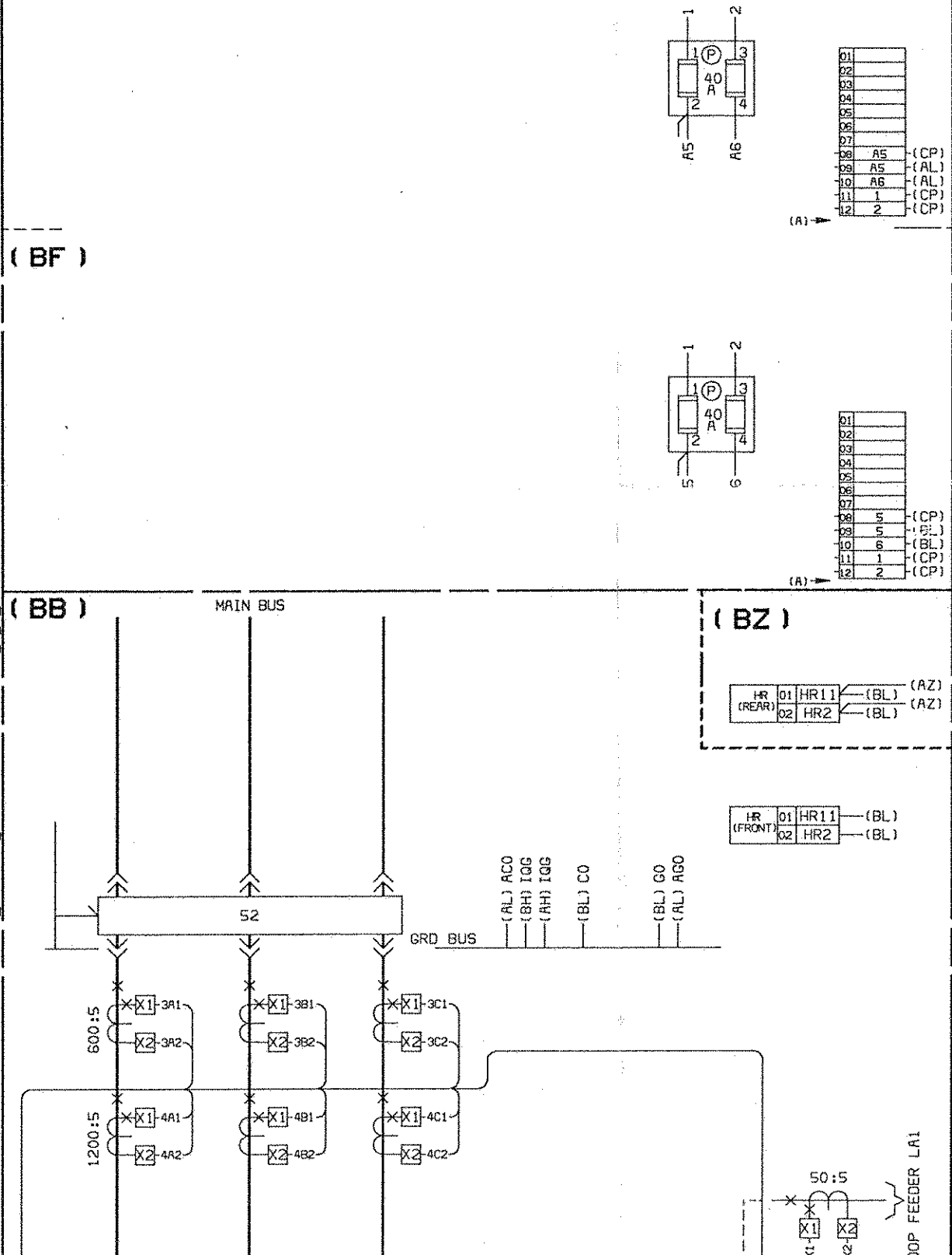
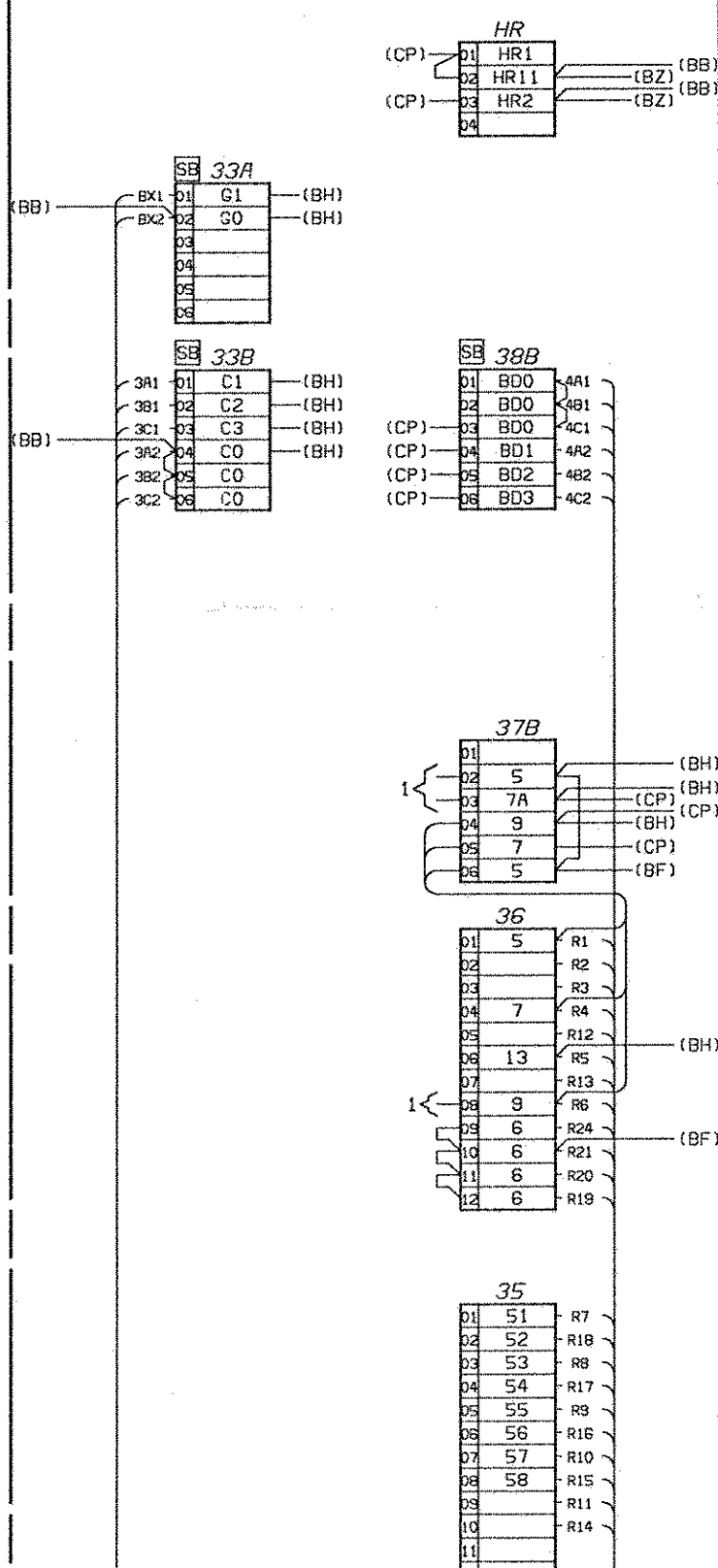
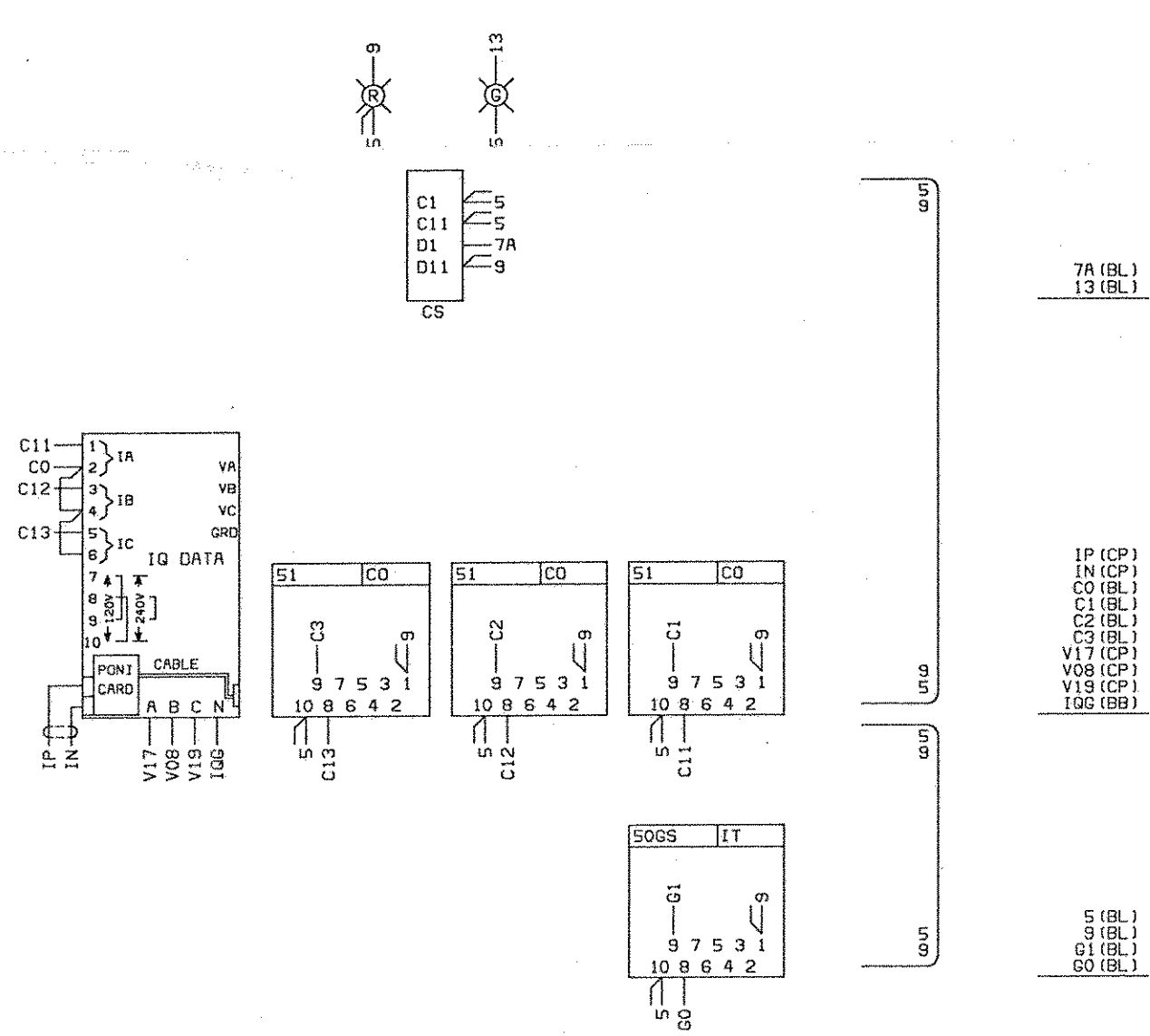
HINGED PANEL (REAR VIEW)

(BH)

(BL)

(AF)

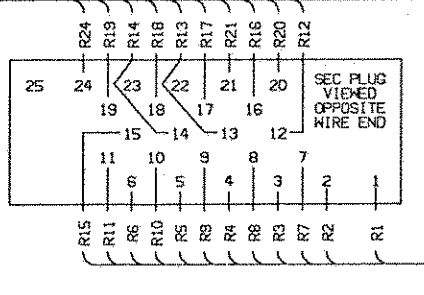
(BR)



REMOTE GENERATOR CONTROL ①

LEFT SIDE SHEET

RIGHT SIDE SHEET



B COMPARTMENT (FRONT VIEW)

**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMG FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
#14 WIRE REQUIRED EXCEPT AS NOTED. DUMMY FUSE SHORT CKT. TERM BLK PULL FUSE HEAVY DUTY TERM BLK

177 127

DATE		DATE		DATE	
WALLACE		8/27/82		Westinghouse	
ENG		R.FIELDS		TITLE	
R.MATSKO		R.MATSKO		SCI MAHONEY PRISON FRACKVILLE, PA.	
INDOOR VACCLAD-W SWITCHGEAR		CONNECTION DIAGRAM VERT. SECT. 3		50VCP-W250	
SIZE		FSCH NO		DWC NO	
SHEET		1 OF 2		6588H03	
6062					

S.O. 71V6588  
S.O. BSHR-45014  
CHANGE

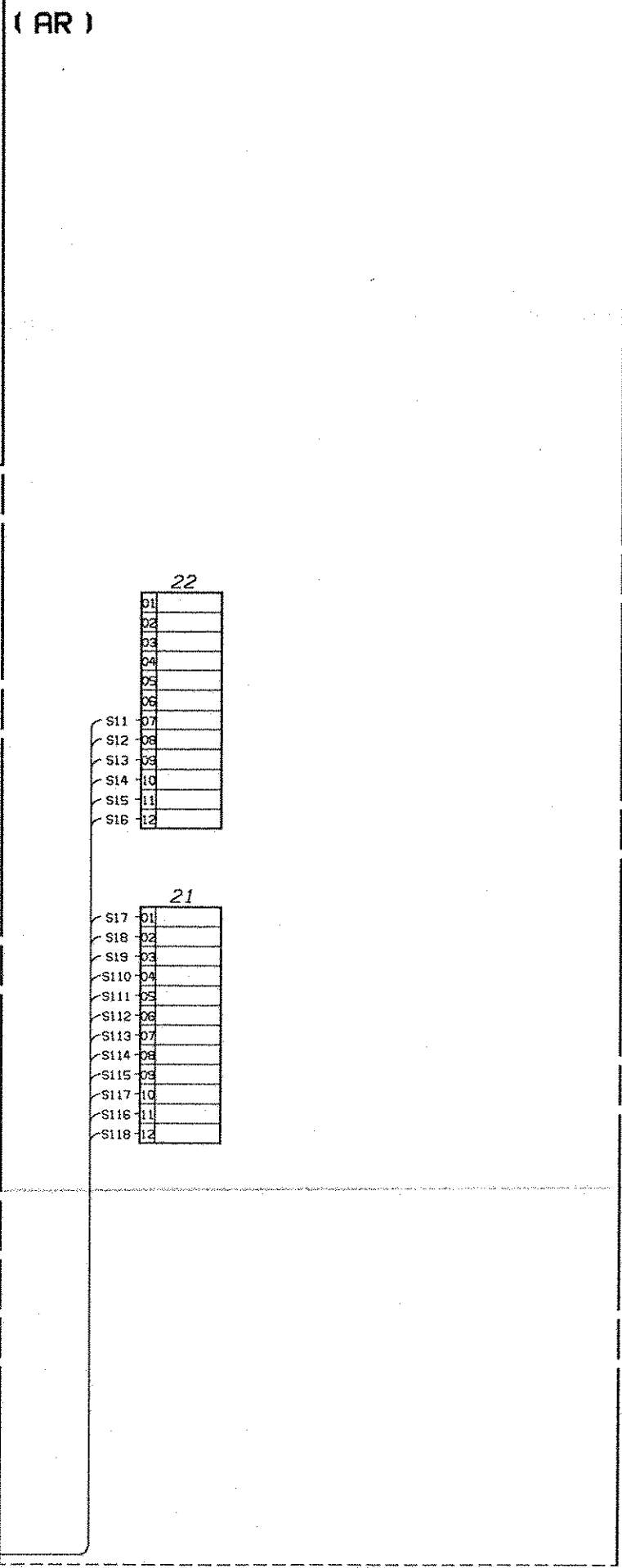
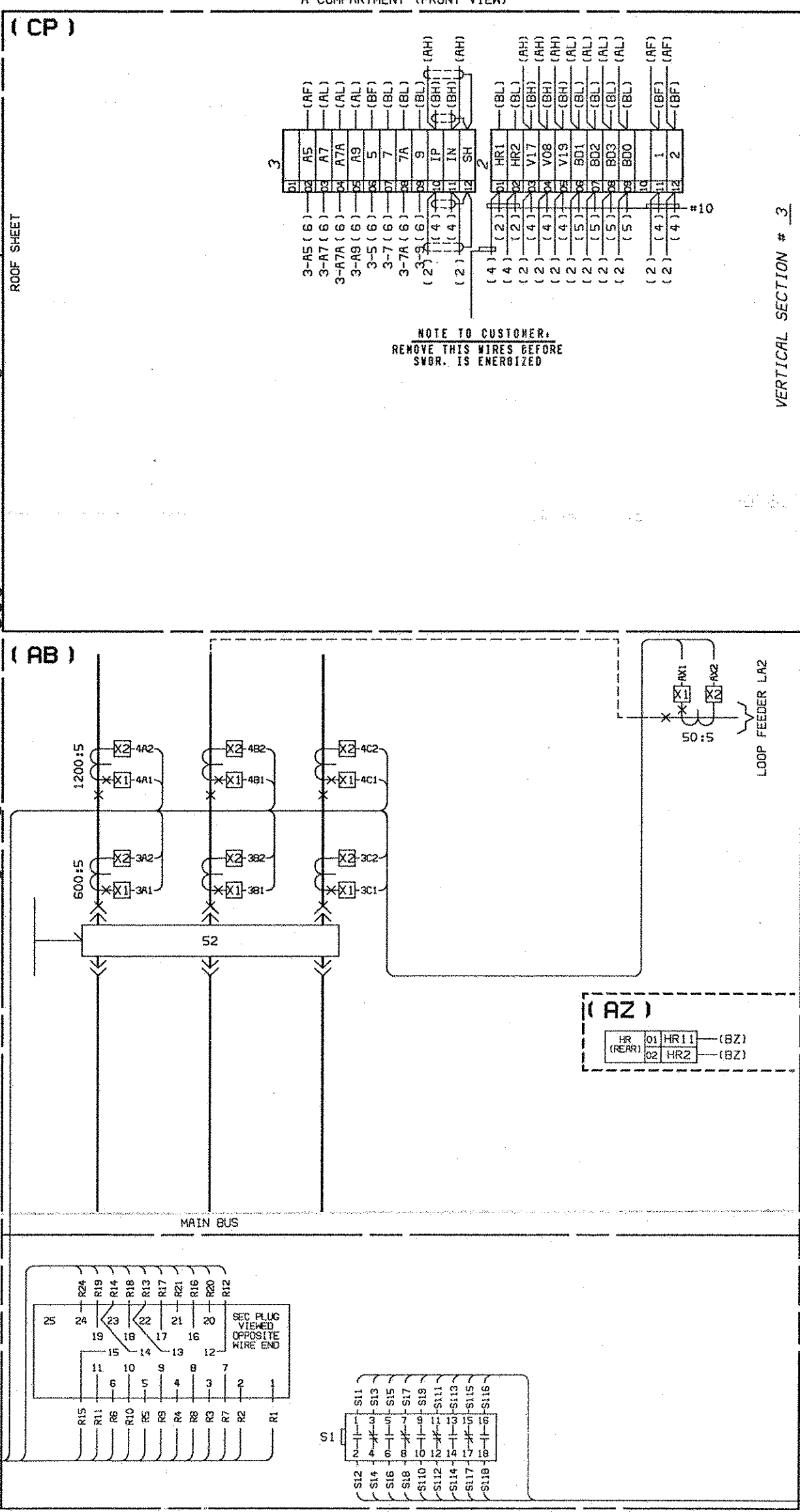
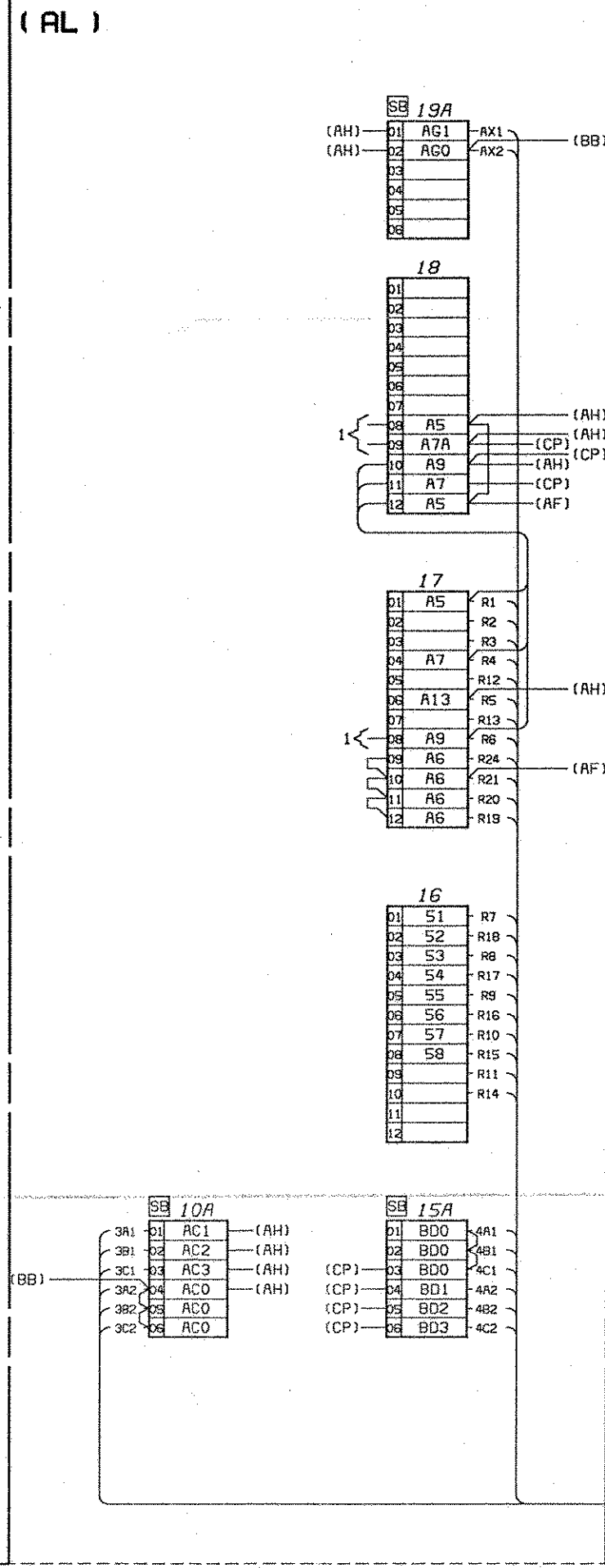
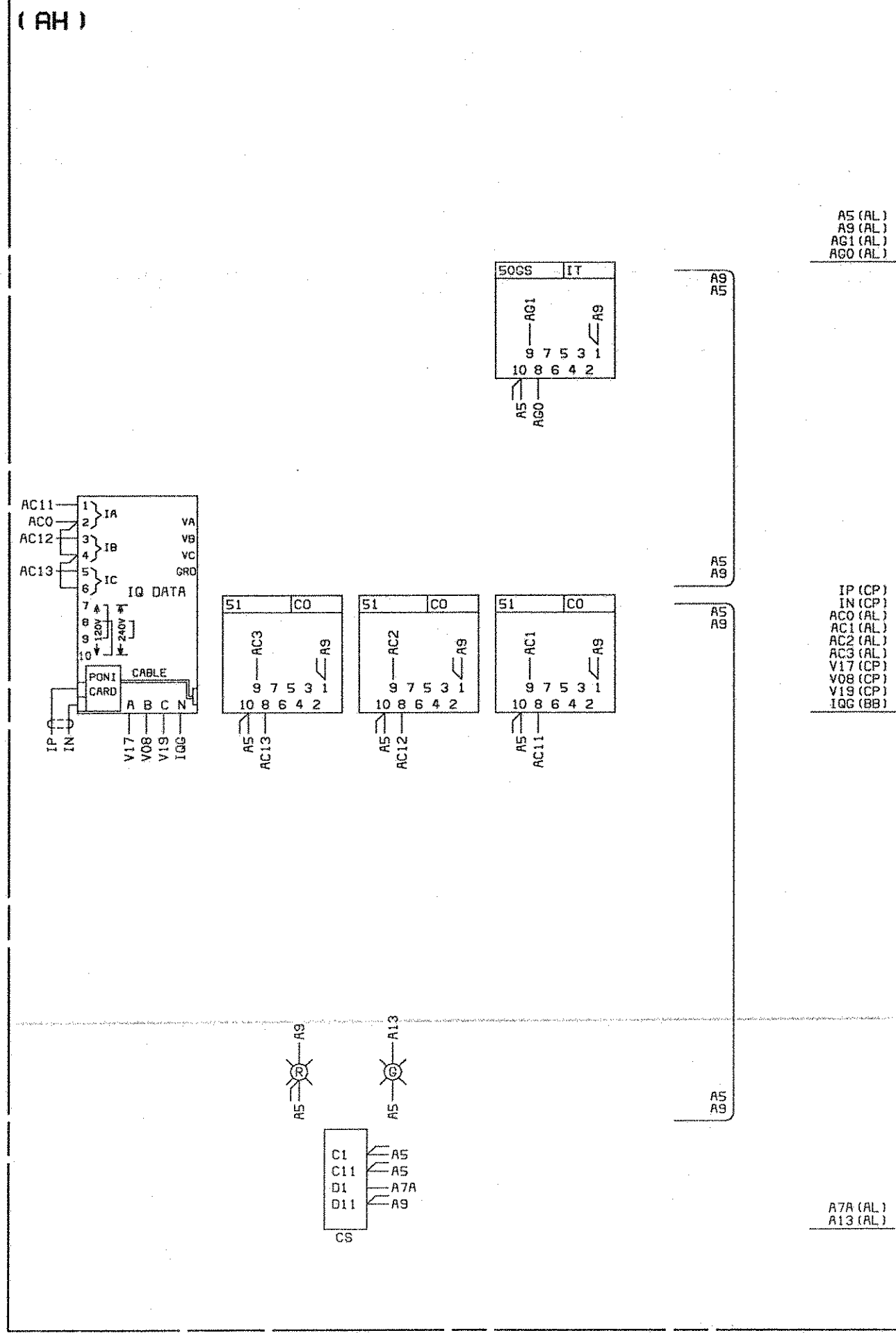
VERTICAL SECTION # 3  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

RIGHT SIDE SHEET





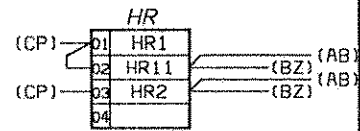
VERTICAL SECTION # 4  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

(BL)

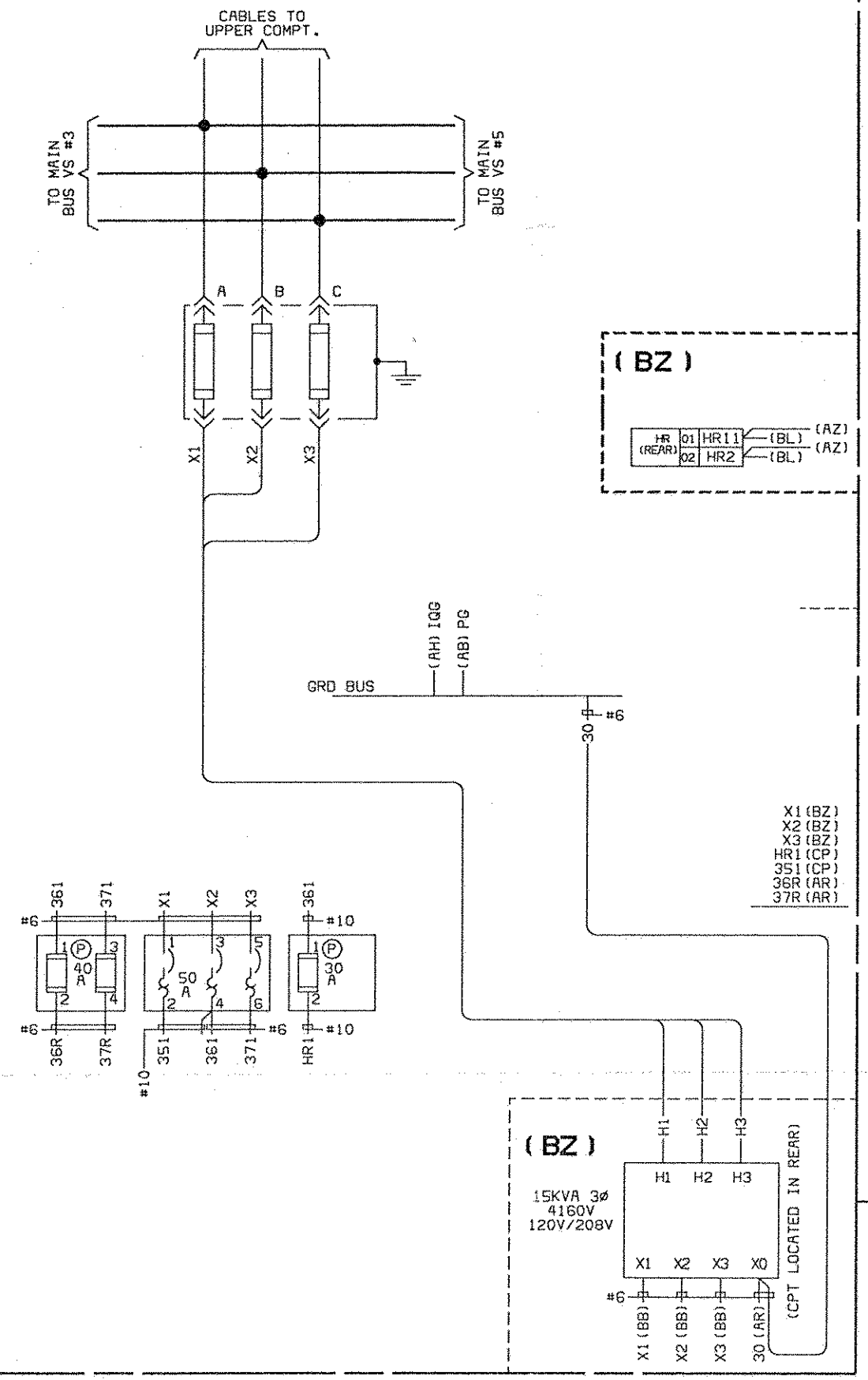
(BR)



(BA)

(BB)

(BZ)



LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

NOTE TO CUSTOMER:  
 MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
 #14 WIRE REQUIRED, EXCEPT AS NOTED.

DUMMY FUSE SHORT CKT. TERM BLK  
 PULL FUSE HEAVY DUTY TERM BLK

DFTM WALLACE 8/1/27/92  
 ENG R. FIELDS  
 DATE  
 R. MATSKO

Westinghouse  
 TITLE SCI MAHONEY PRISON FRACKVILLE, PA.  
 INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250  
 CONNECTION DIAGRAM VERT. SECT. 4  
 SIZE 1/8" X 1/4" 645 X 80  
 SHEET 1 OF 2 6588H04 6062

1  
 S.O. 71V6588  
 G.O. BSHR-45014  
 CHANGE

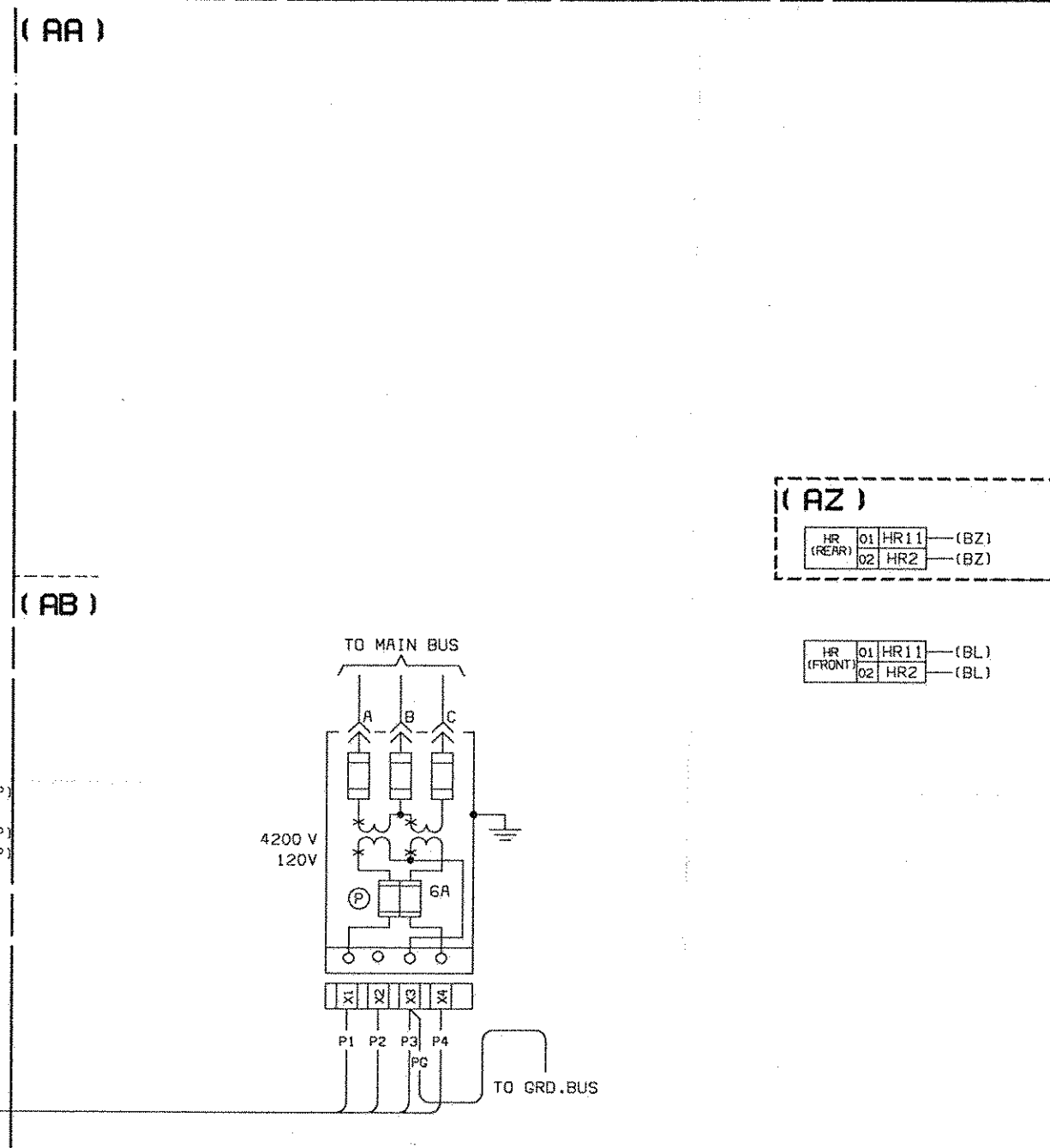
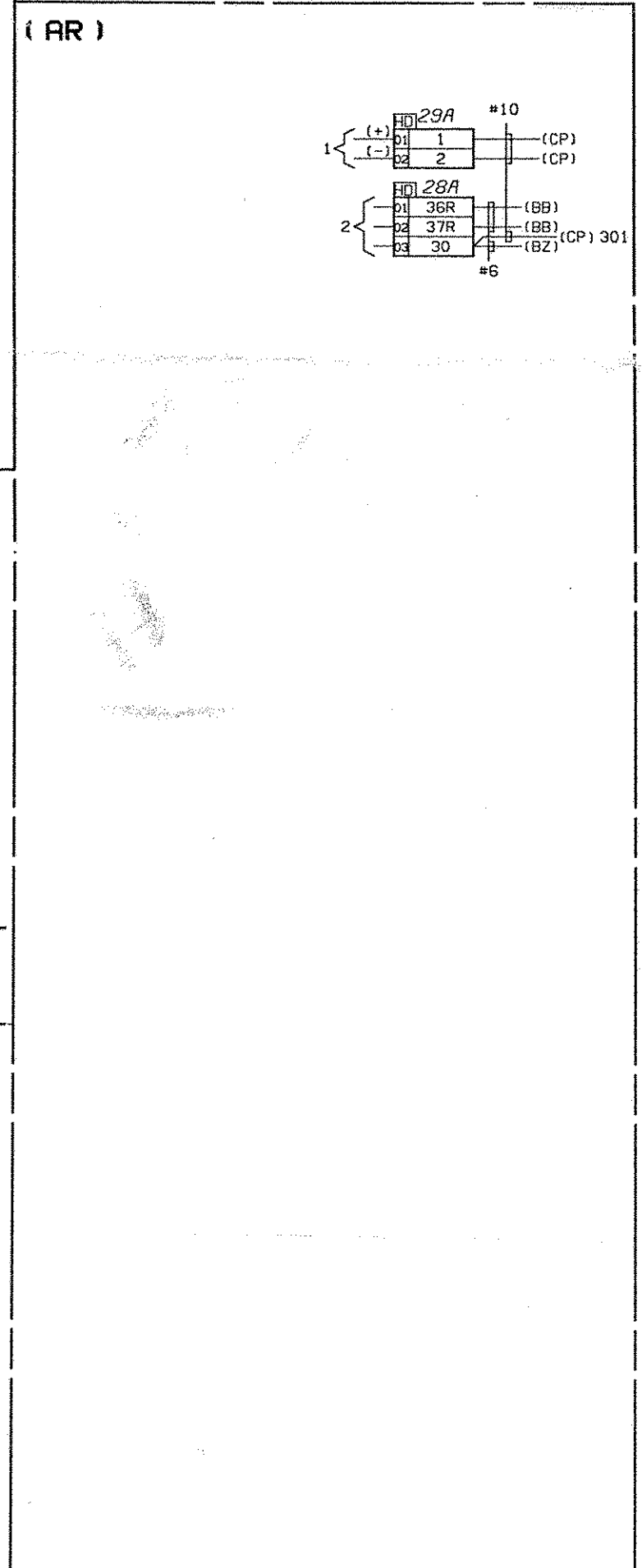
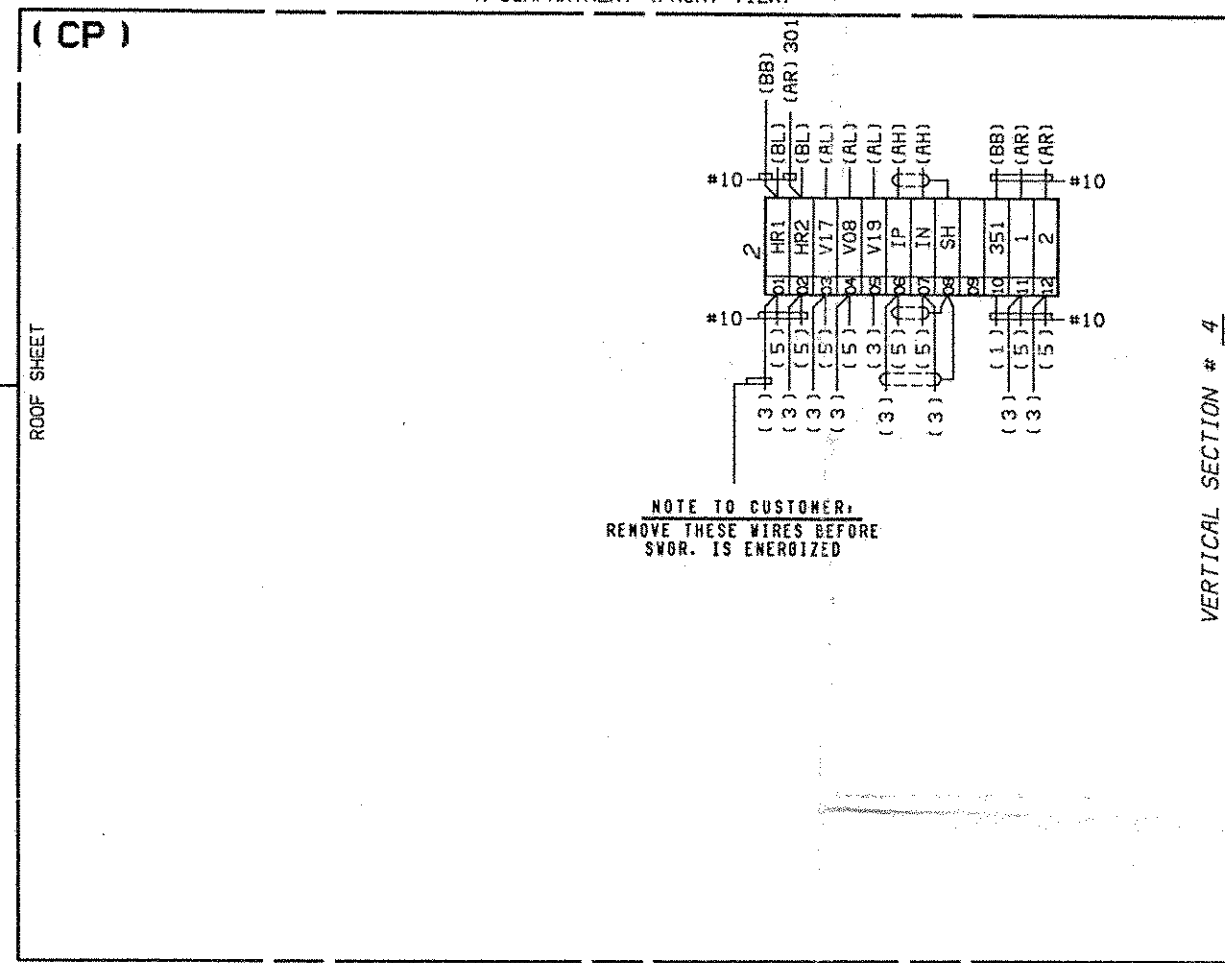
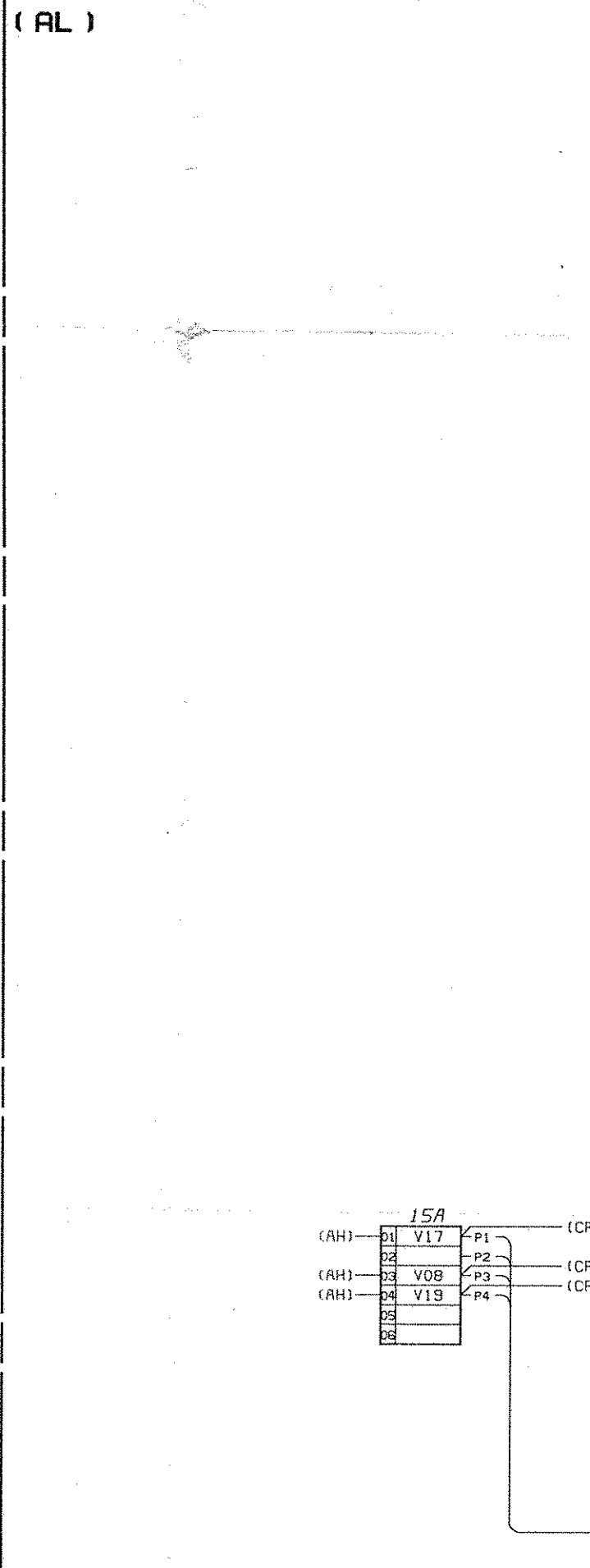
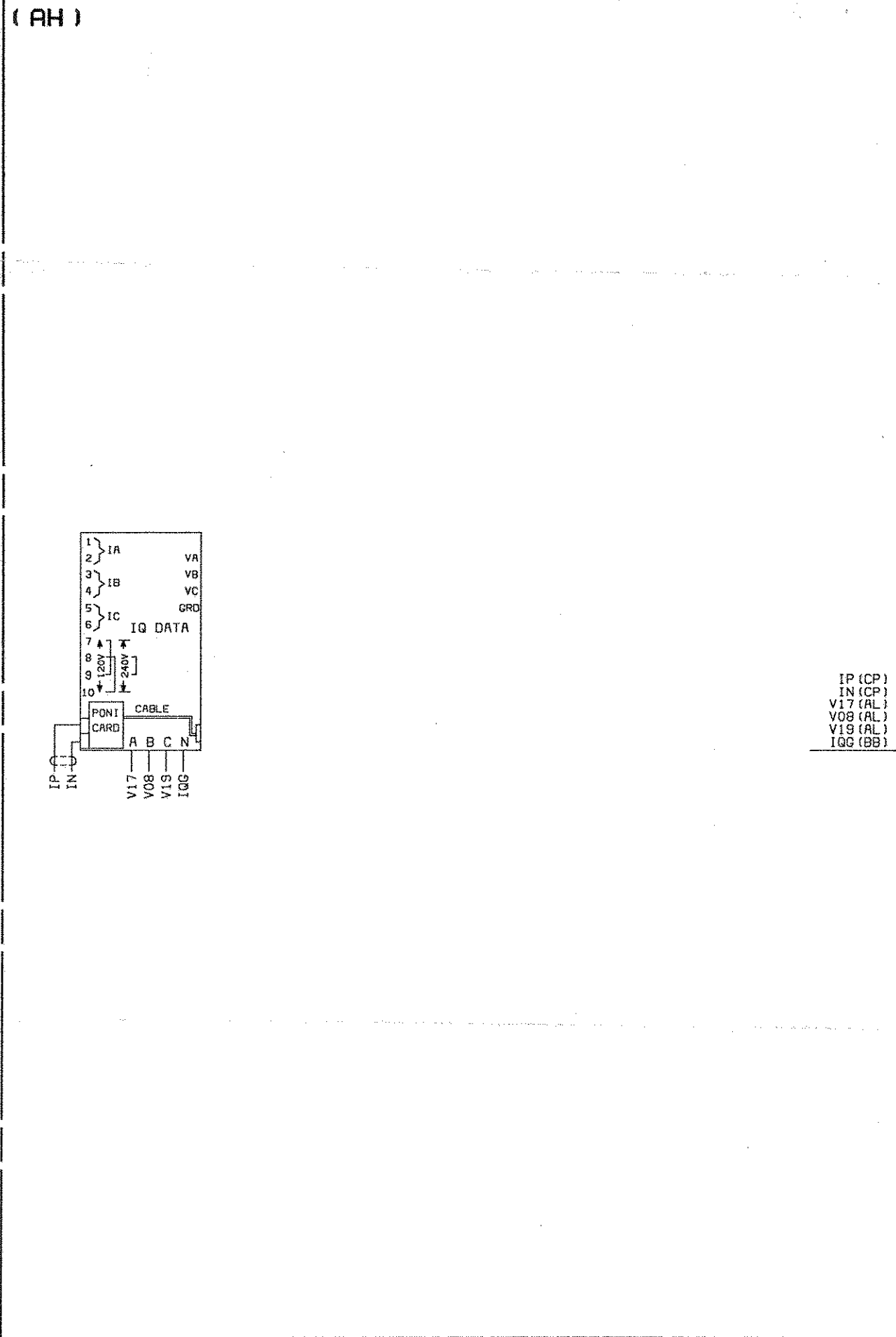
VERTICAL SECTION # 4  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

RIGHT SIDE SHEET



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB	TITLE	DWG NO.
	CONNECTION DIAGRAM VERT. SECT. 4	6588H04
SIZE	FSCM	SHEET 1 OF 2
D		6062

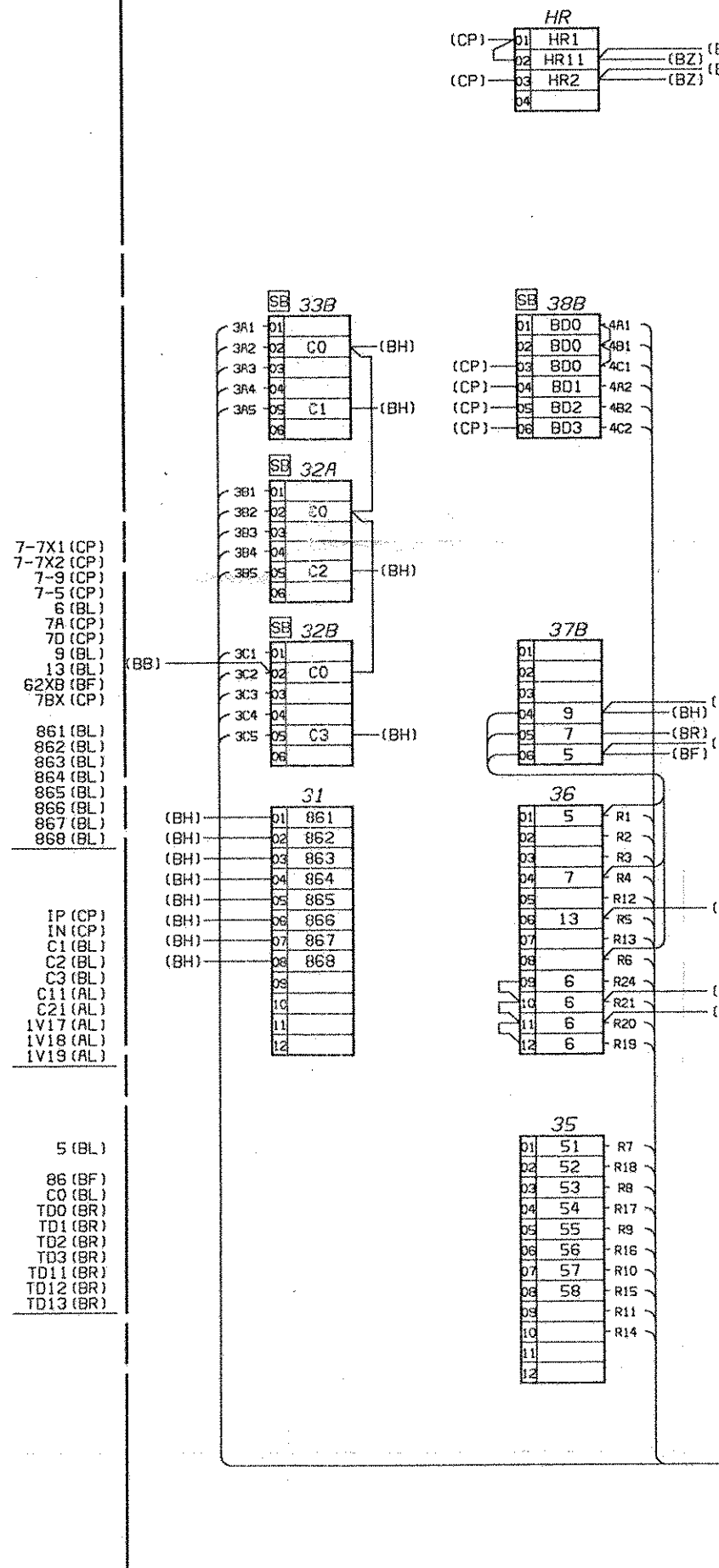
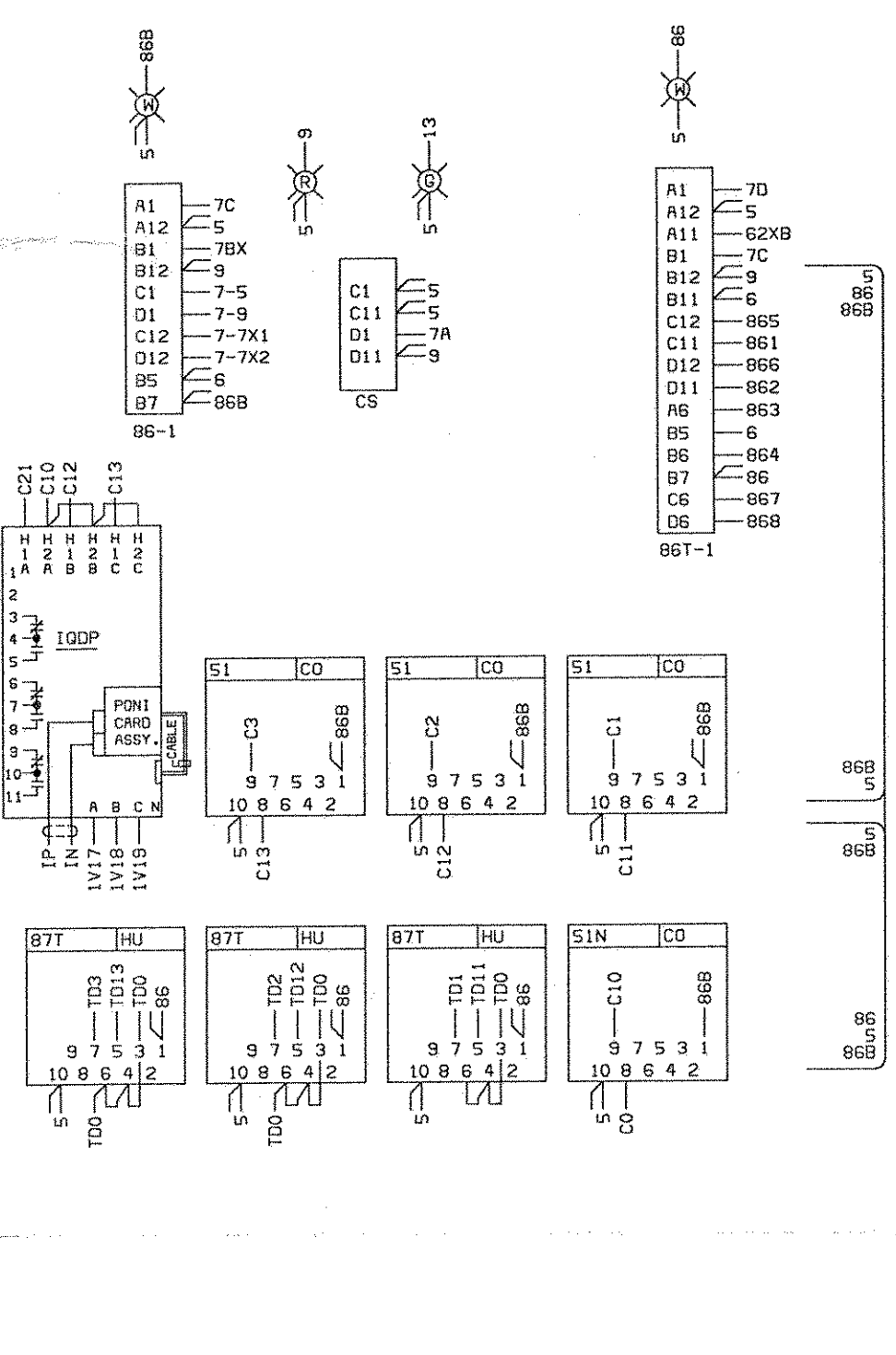
VERTICAL SECTION # 5  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

(BL)

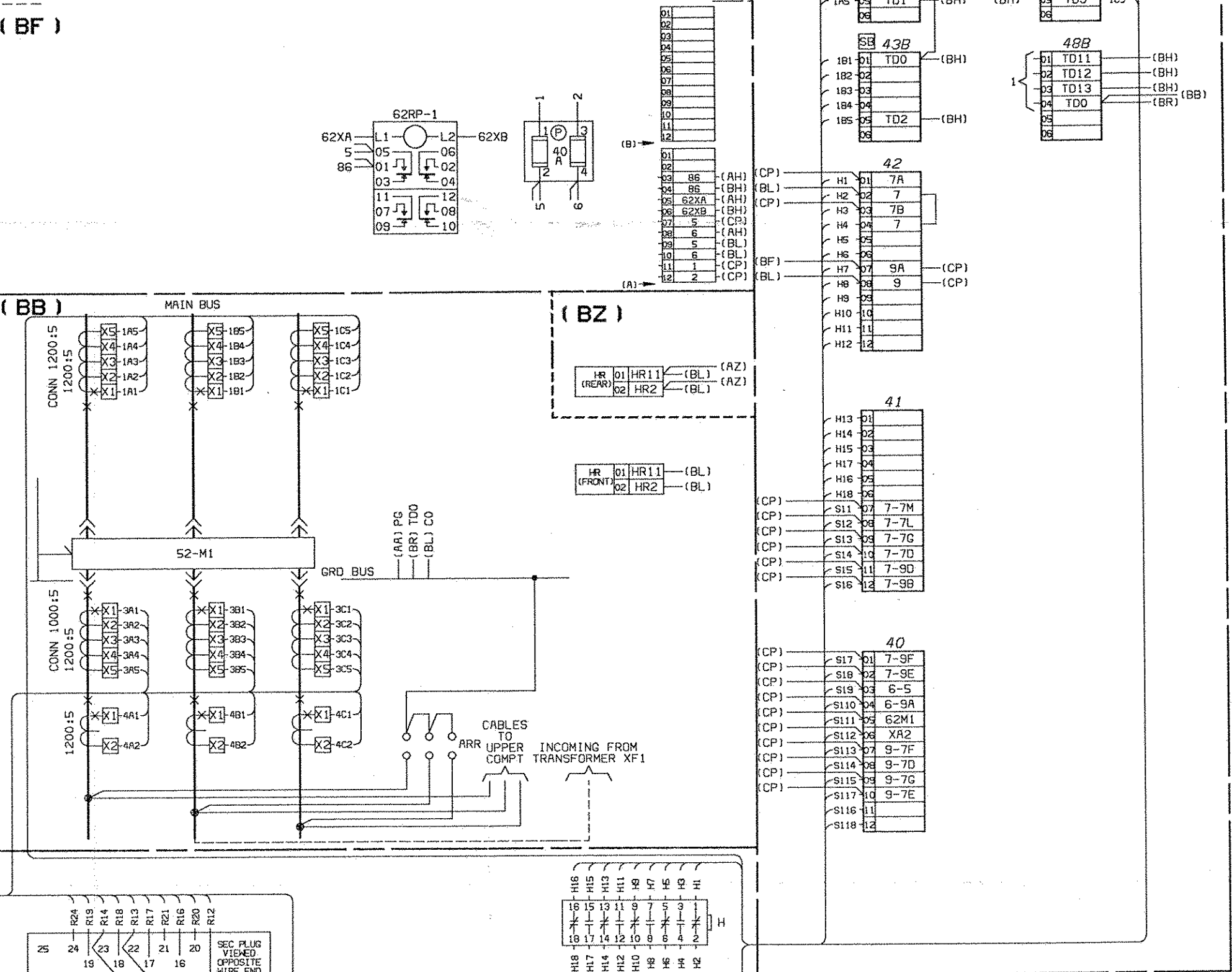
(BR)



(BF)

(BB)

(BZ)



TO REMOVE XFMR  
DIFF. CT'S

LEFT SIDE SHEET

RIGHT SIDE SHEET

1	71Y6588 G.O.BSHR-45014 CHANGE
2	71Y6588 MINOR WIRE CHANGES. WALLACE R.FIELDS R.MATSKO
3	71Y6588 DELETED WIRE CHANGES ON AFTER CUSTOMER APPROVAL BY PNL & ASSC. WIRING. D.NGUYEN R.FIELDS R.MATSKO

NOTE TO CUSTOMER:  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAUGHT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION.  
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
#14 WIRE REQUIRED. - DUMMY FUSE - SHORT CKT. TERM BLK - PULL FUSE - HEAVY DUTY TERM BLK

DPTH WALLACE	DATE 07/28/92	Westinghouse	
ENG R.FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
DESIGNED R.MATSKO	DATE	INDOOR VACUCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 5	
SIZE D		FIG. NO. 1 OF 2	DWG. NO. 6588H05
SHEET		6062	

VERTICAL SECTION # 5  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

SHIPPING BREAK

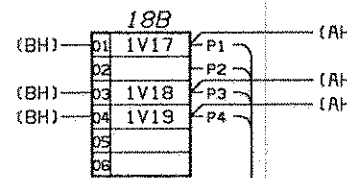
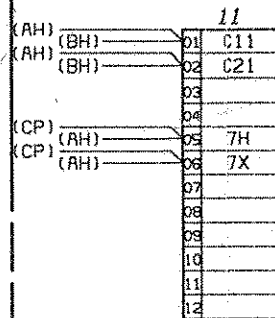
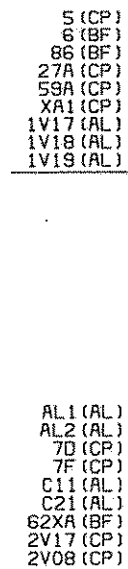
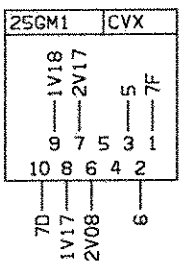
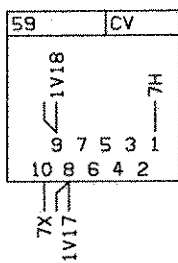
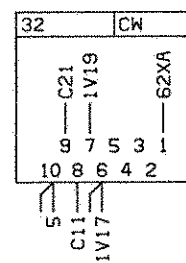
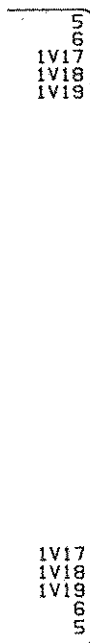
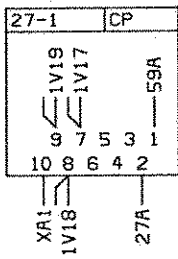
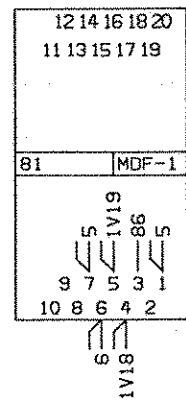
RIGHT SIDE SHEET

(AH)

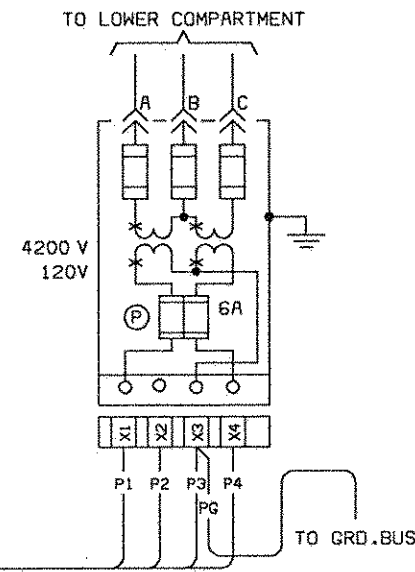
(AL)

(CP)

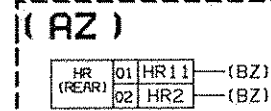
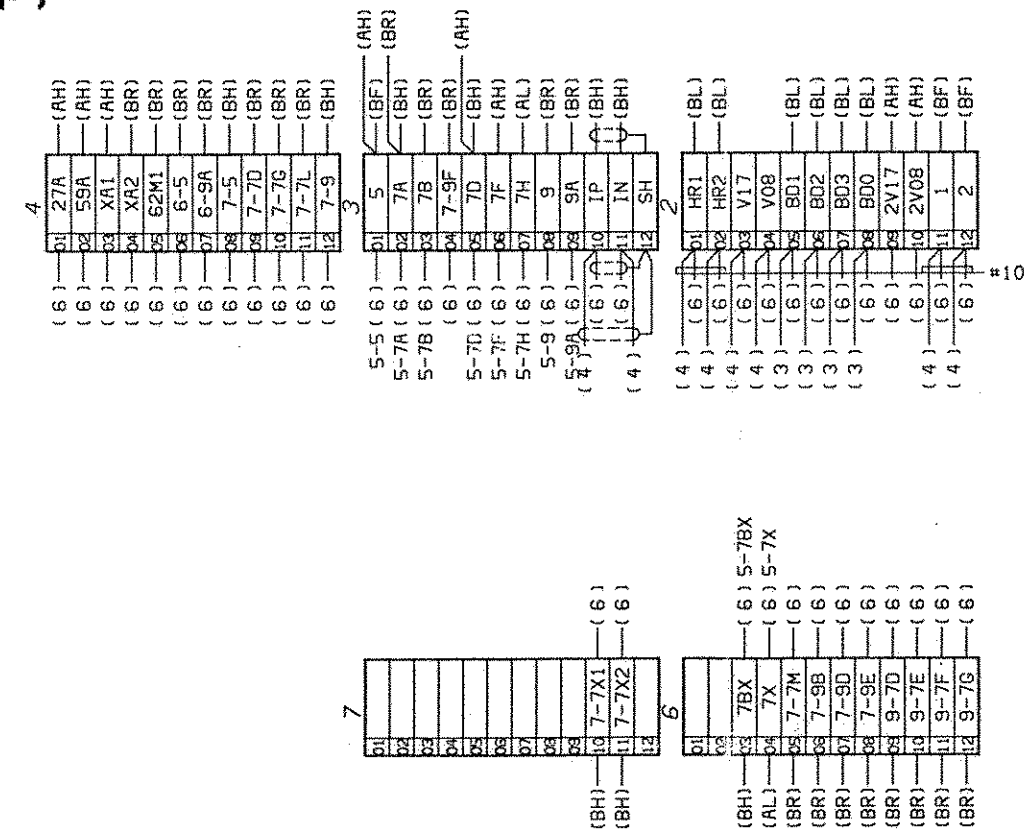
(AR)



(AR)



(AB)



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB	TITLE CONNECTION DIAGRAM VERT. SECT. 5	
SIZE	FSC	DWG NO. 6588H05
		SHEET 2 OF 2

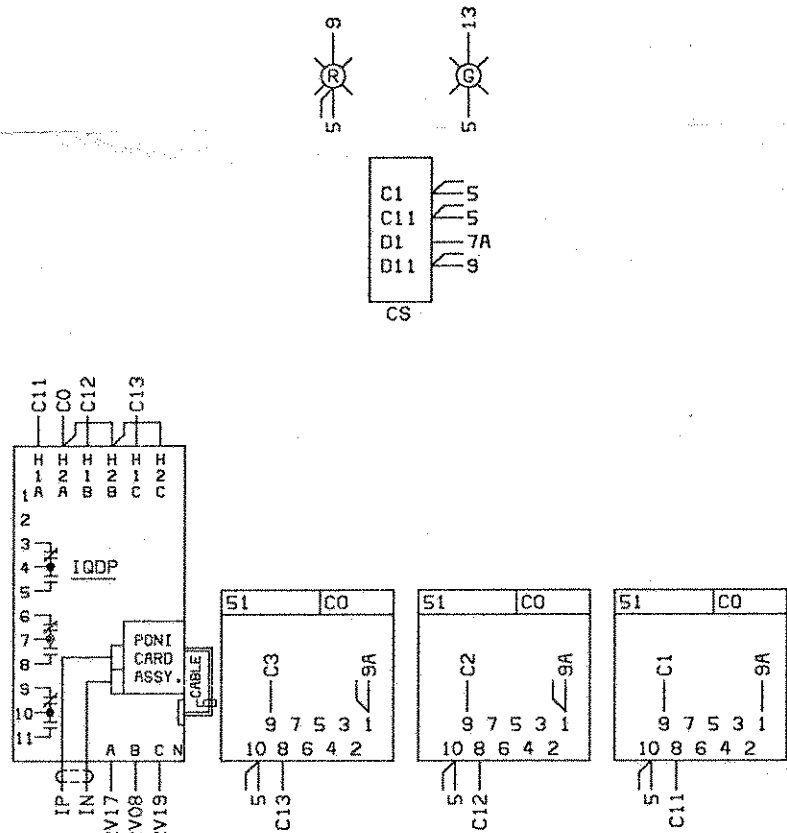
6062



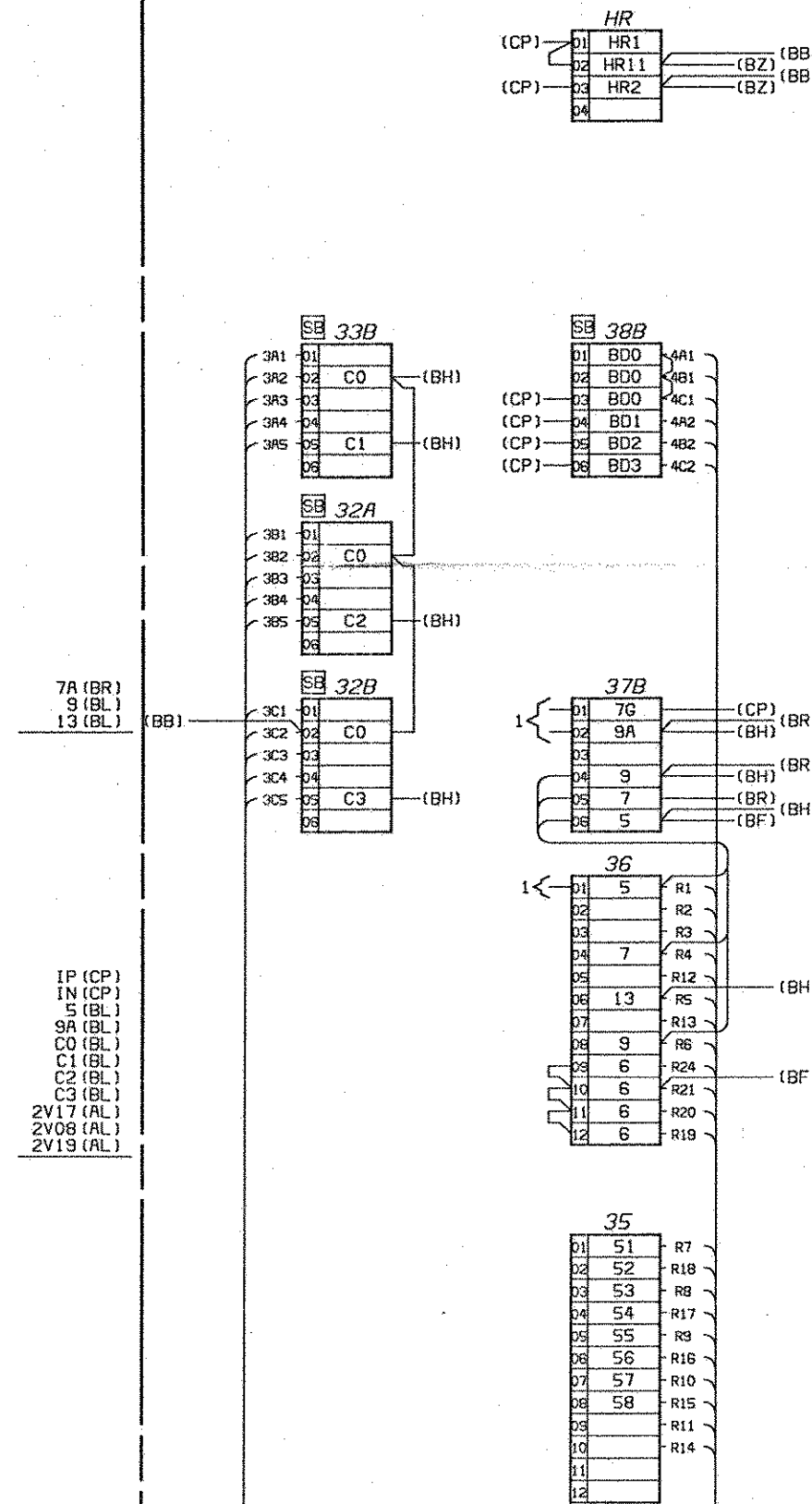
VERTICAL SECTION # 6  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

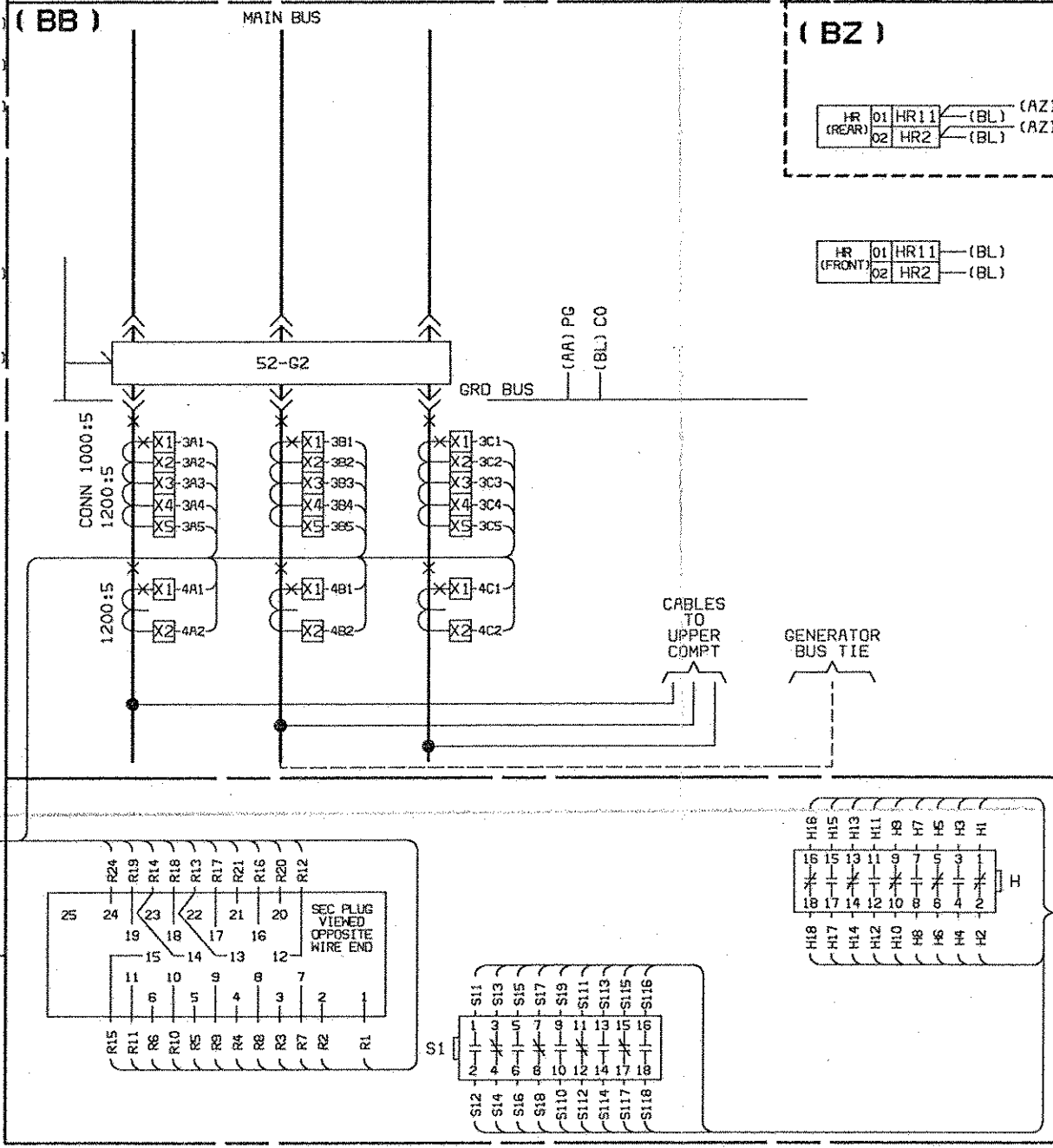


(BL)

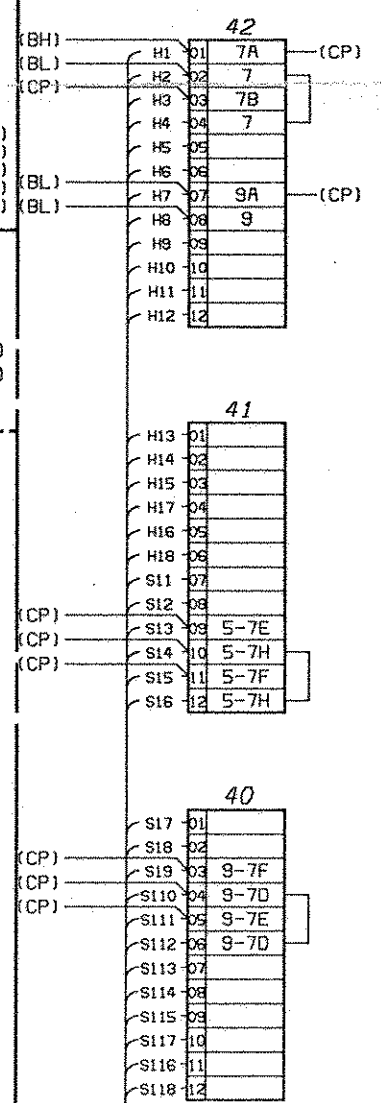


(BF)

(BB)



(BR)



REMOTE GENERATOR CONTROL LEFT SIDE SHEET

RIGHT SIDE SHEET

**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD. \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
#14 WIRE REQUIRED, EXCEPT AS NOTED.

DUMMY FUSE     SHORT CKT. TERM BLK  
 PULL FUSE     HEAVY DUTY TERM BLK

DATE	07/29/92	Westinghouse	
DRWN	WALLACE	TITLE	
DATE		SCI MAHONEY PRISON	
ENG	R.FIELDS	FRACKVILLE, PA.	
DATE		INDOOR VACCLAD-W SWITCHGEAR	
DATE		50VCP-W250	
DATE		CONNECTION DIAGRAM VERT. SECT. 6	
DATE		SIZE	FSCH NO
DATE		SIZE	6588H06
DATE		SHEET	1 OF 2
DATE		6062	

1	71Y5588	08/17/92	01/25/93
2	71Y5588	08/17/92	01/25/93
3	71Y5588	08/17/92	01/25/93
4	71Y5588	08/17/92	01/25/93
5	71Y5588	08/17/92	01/25/93
6	71Y5588	08/17/92	01/25/93
7	71Y5588	08/17/92	01/25/93
8	71Y5588	08/17/92	01/25/93
9	71Y5588	08/17/92	01/25/93
10	71Y5588	08/17/92	01/25/93
11	71Y5588	08/17/92	01/25/93

1 1 10 9 8 7 6 5 4 3 2 1

VERTICAL SECTION # 6  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

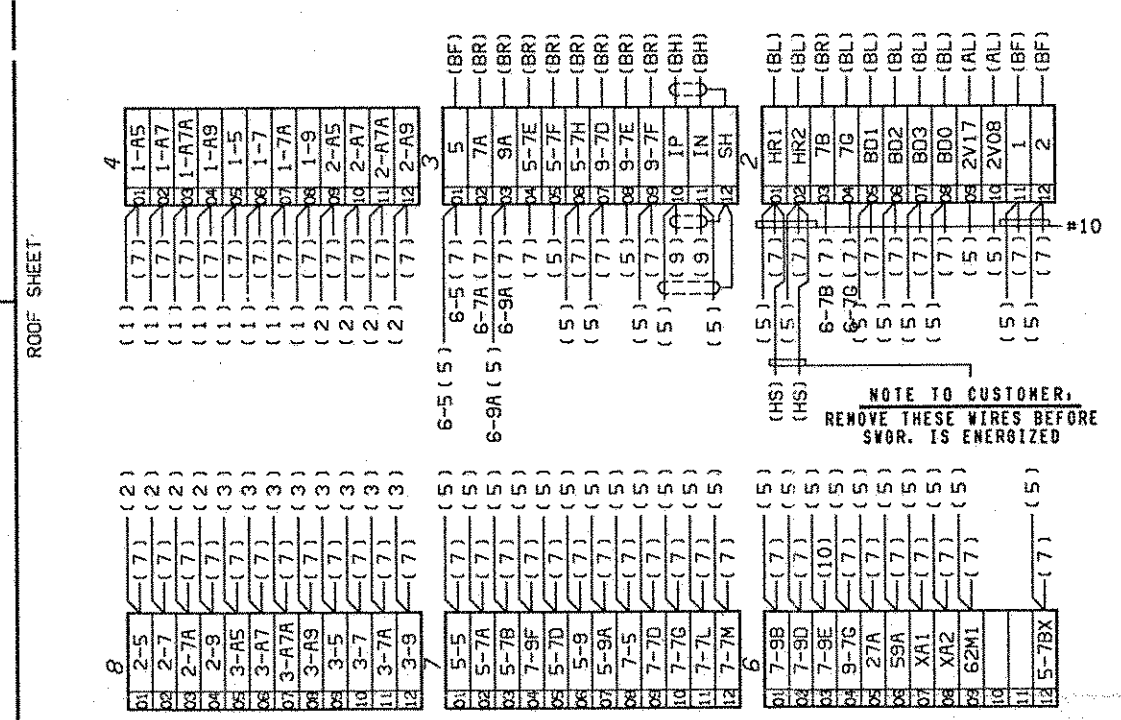
**(HS)** NOTE TO SHOP:  
LEAVE WIRES 7FT. IN LENGTH  
WITH T.B. CONNECTED TO END.

NOTE TO CUSTOMER:  
CONNECT 120V AC  
FOR TEMPORARY  
HEATER SOURCE.

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

**(CP)**



NOTE TO CUSTOMER:  
REMOVE THESE WIRES BEFORE  
SWGR. IS ENERGIZED

VERTICAL SECTION # 6

RIGHT SIDE SHEET

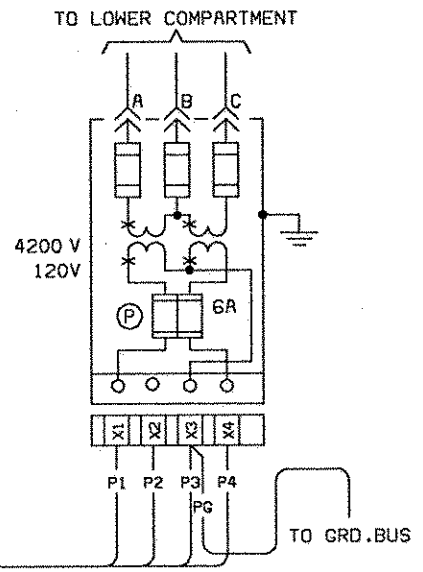
**(AR)**

**(AH)**

**(AL)**

**(AA)**

**(AB)**



**(AZ)**

01	HR1	(BZ)
02	HR2	(BZ)

FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB TITLE	CONNECTION DIAGRAM VERT. SECT. 6
SIZE	F5CH
DWG NO.	6588H06
SHEET	2 OF 2

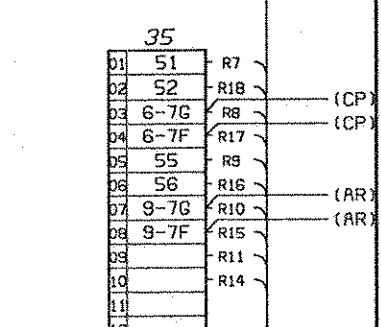
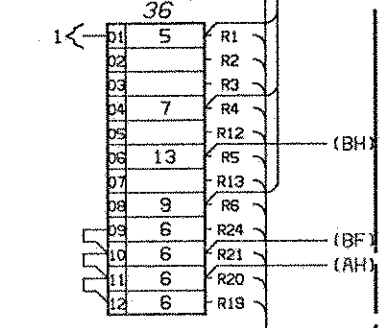
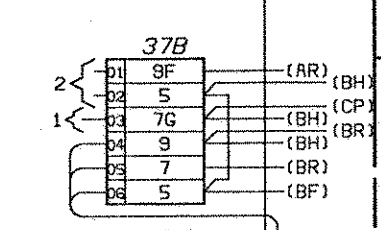
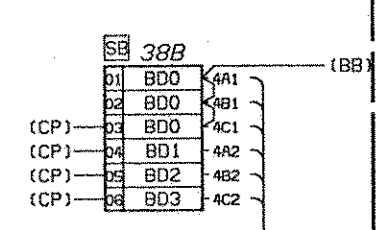
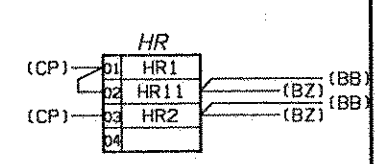
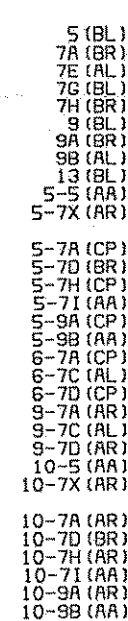
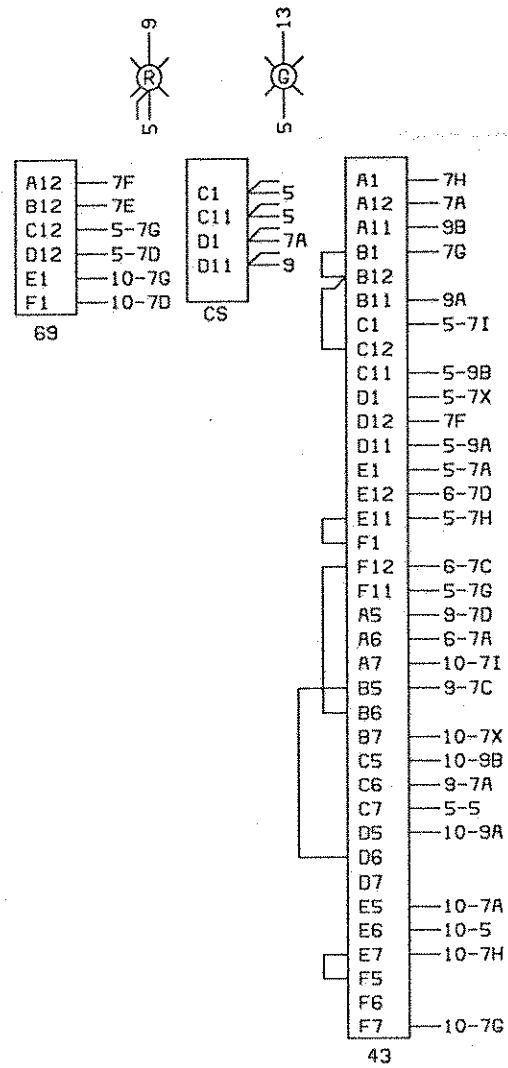
1 1 10 9 8 7 6 5 4 3 2 1



VERTICAL SECTION # 7  
LOWER COMPARTMENT

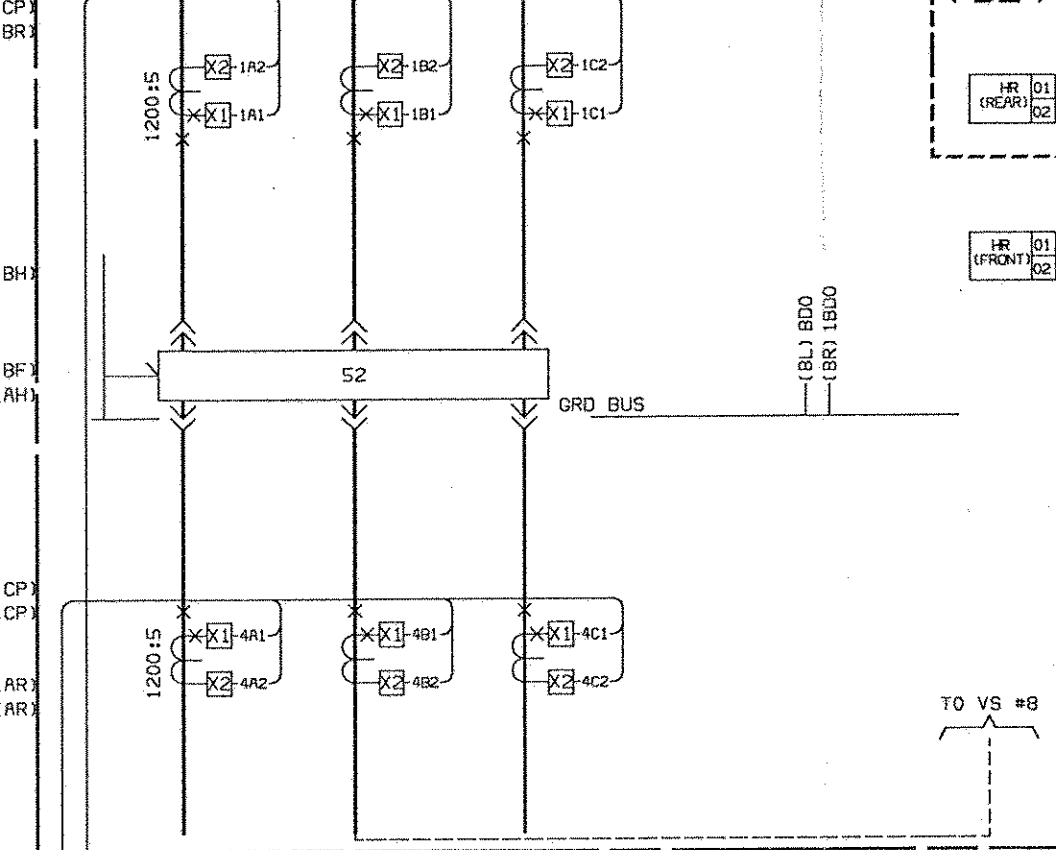
HINGED PANEL (REAR VIEW)

(BH)

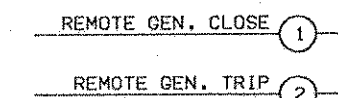
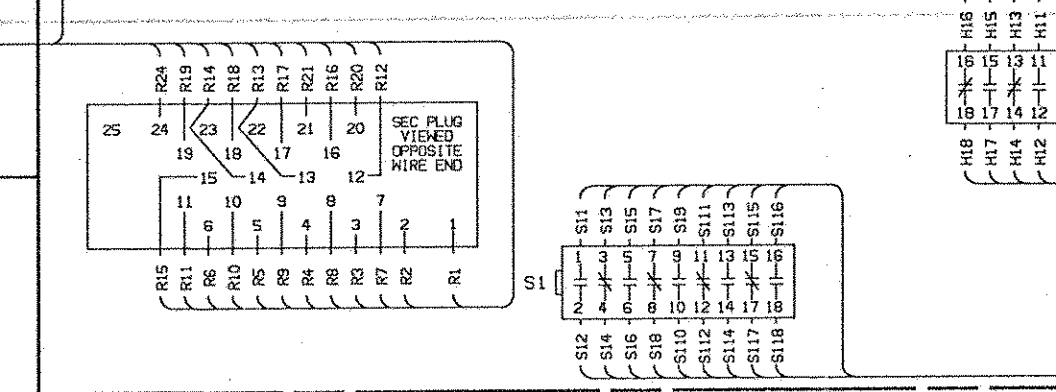
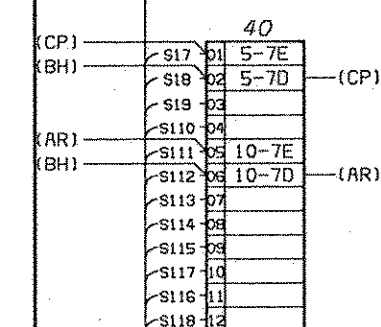
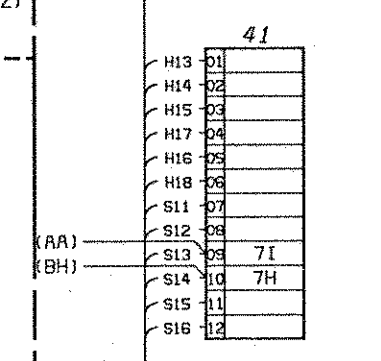
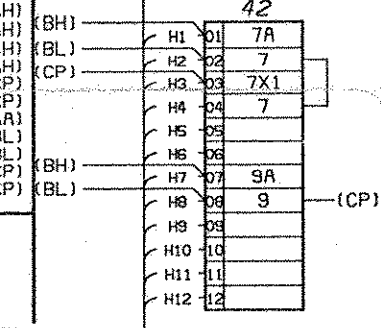
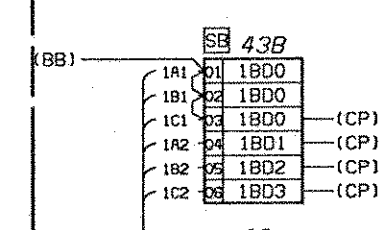


(BF)

(BB)



(BR)



LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

1	2	3
S.O. 716588 G.O. 85HR-45014 CHANGE	716588 DEV. B2X1 AND B2X2 WERE REMOVED AND WIRE CHANGES.	716588 DEV. 27X1, 27X2, 43 & 10-22 MODIFIED.
WALLACE R. FIELDS R. MATSKO	09/17/92	01/25/93
D. NGUYEN R. FIELDS R. MATSKO		

NOTE TO CUSTOMER:  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT,  
OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS  
OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION.  
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM  
DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE  
OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
#14 WIRE REQUIRED, EXCEPT AS NOTED.  
692 180

DFTN WALLACE	DATE 8/29/92	Westinghouse	
ENG R. FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
DESIGNED R. MATSKO	DATE	INDOOR VACCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 7	
SIZE D	PSCH NO 1 OF 2	DWG NO 6588H07	6062

VERTICAL SECTION # 7  
UPPER COMPARTMENT

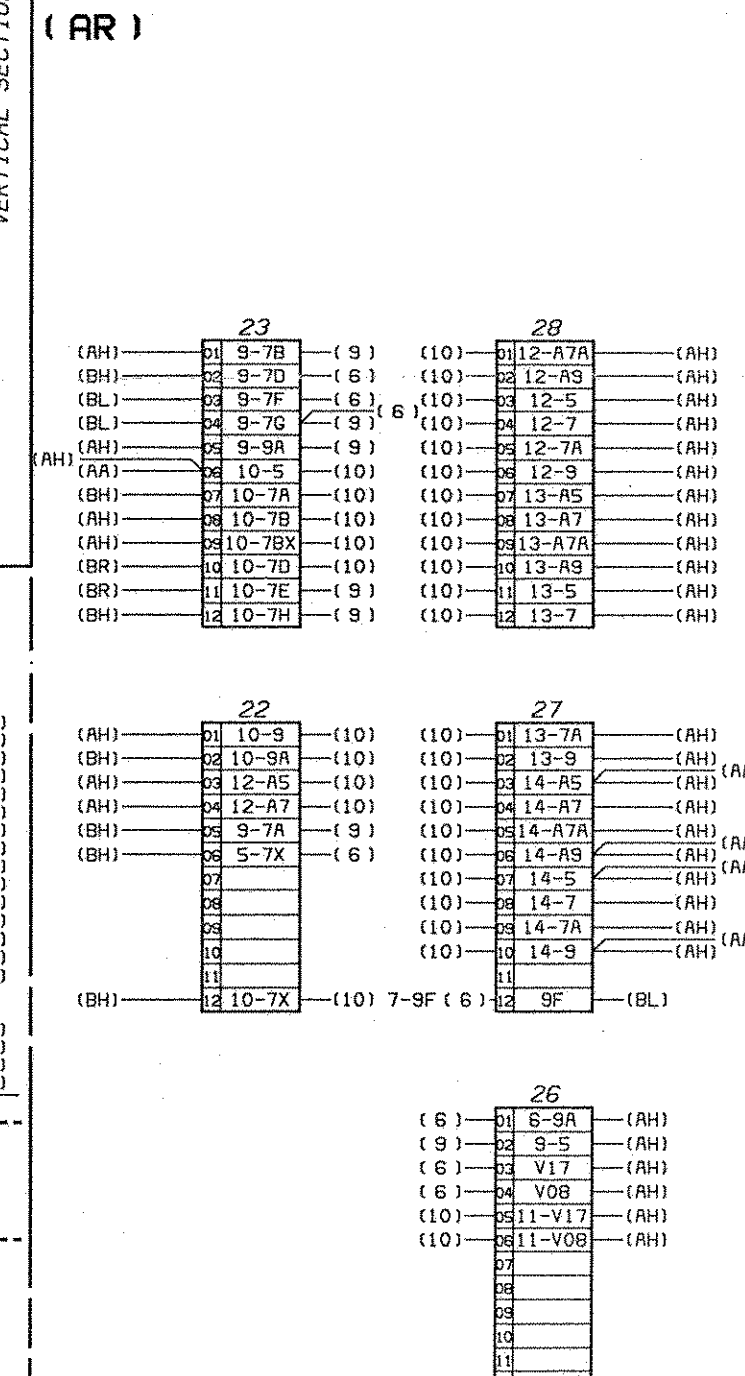
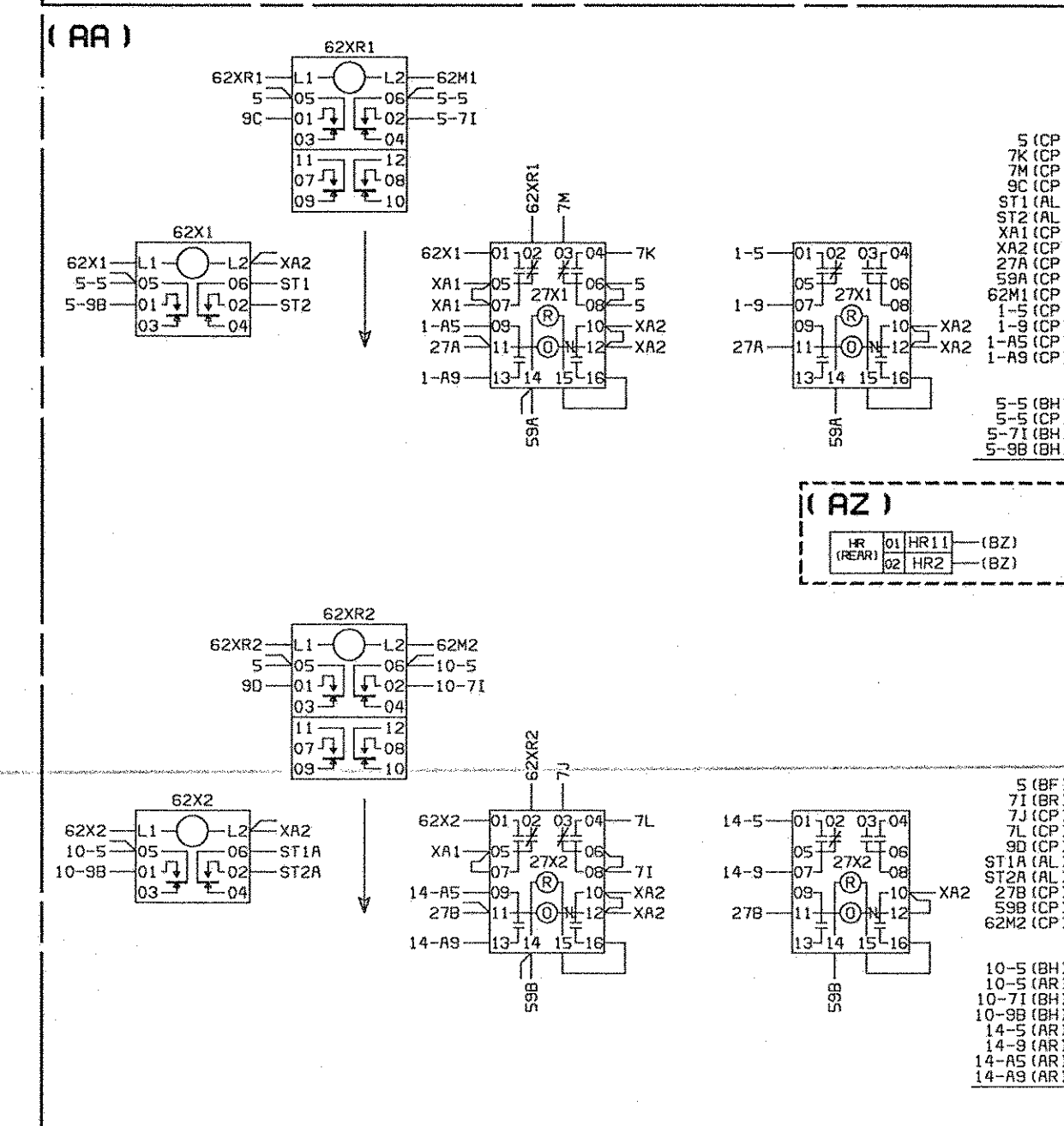
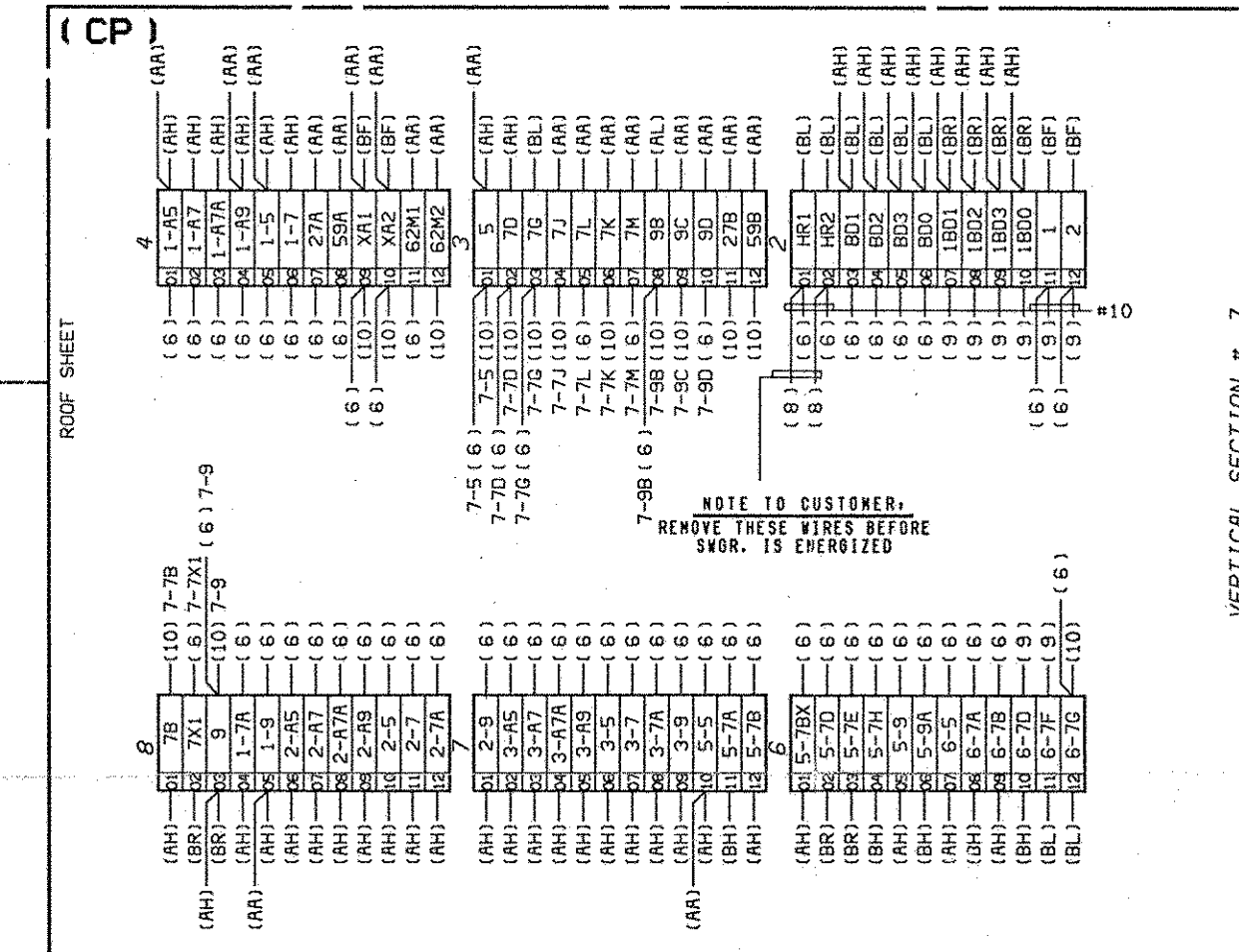
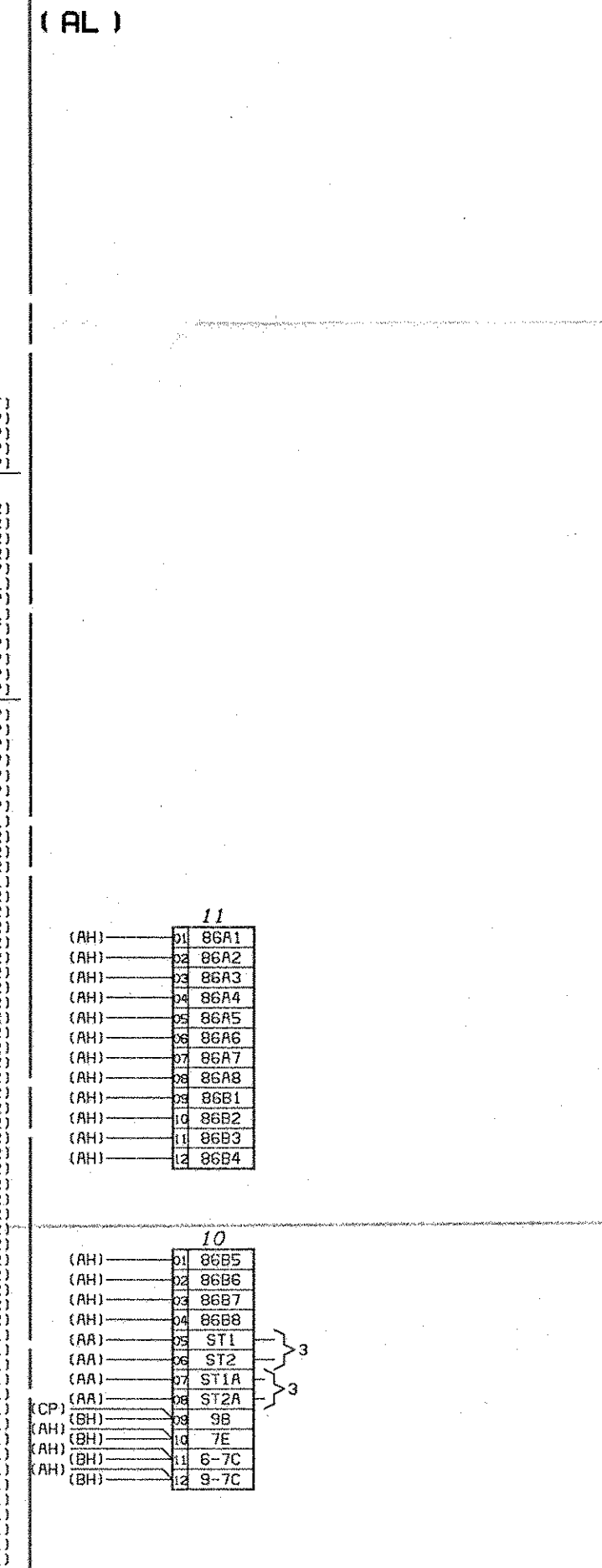
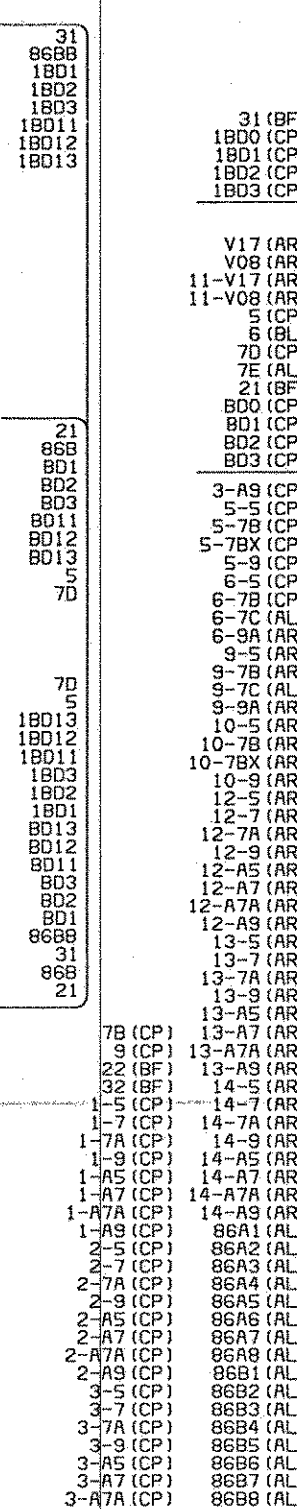
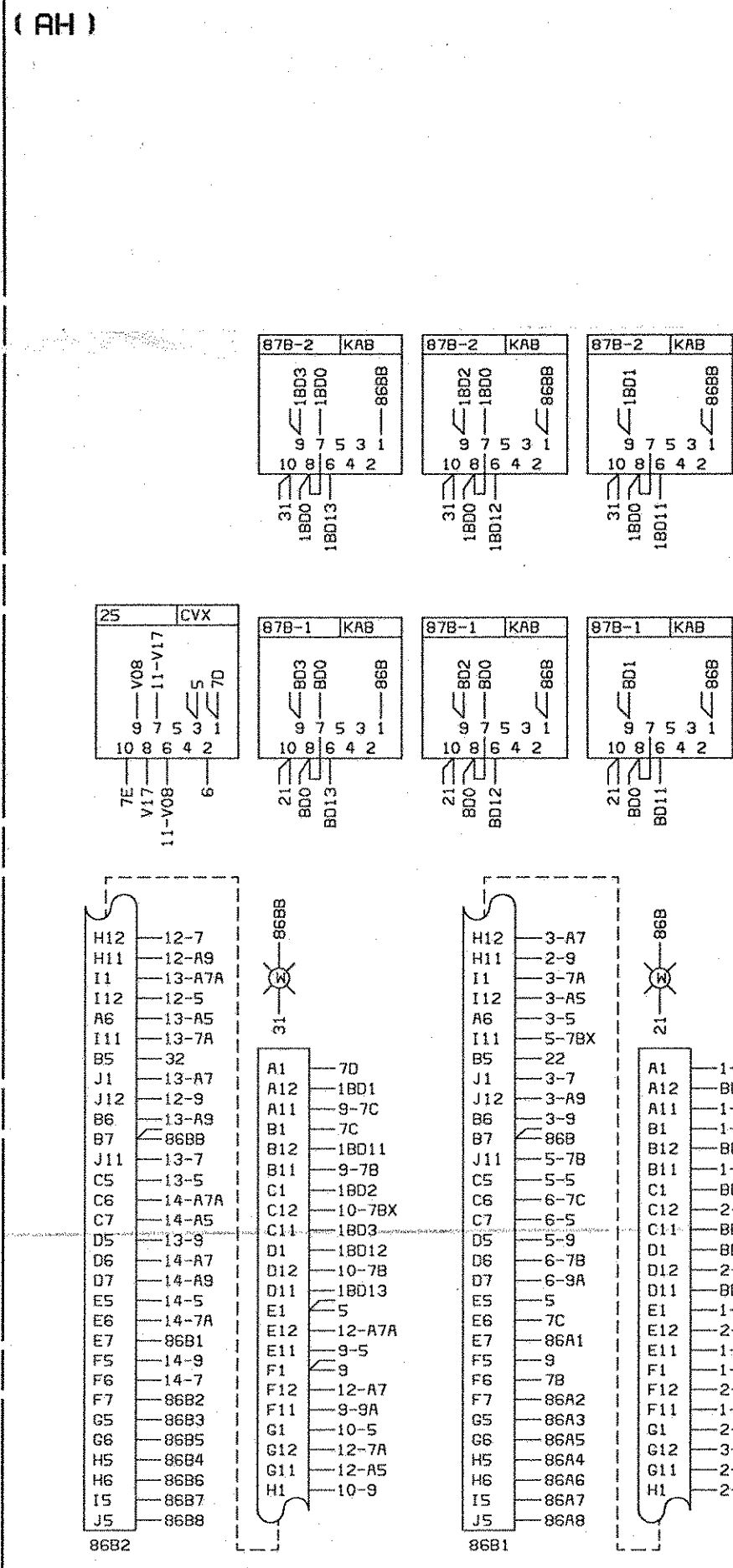
HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

VERTICAL SECTION # 7

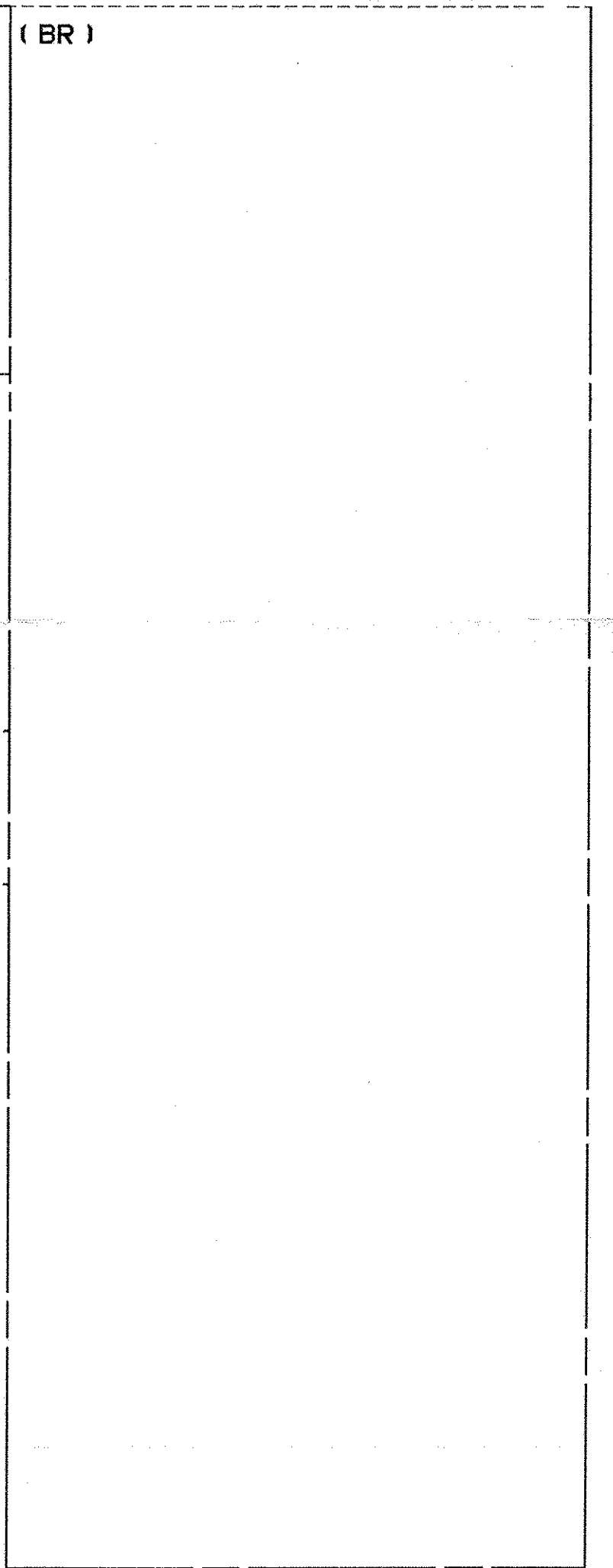
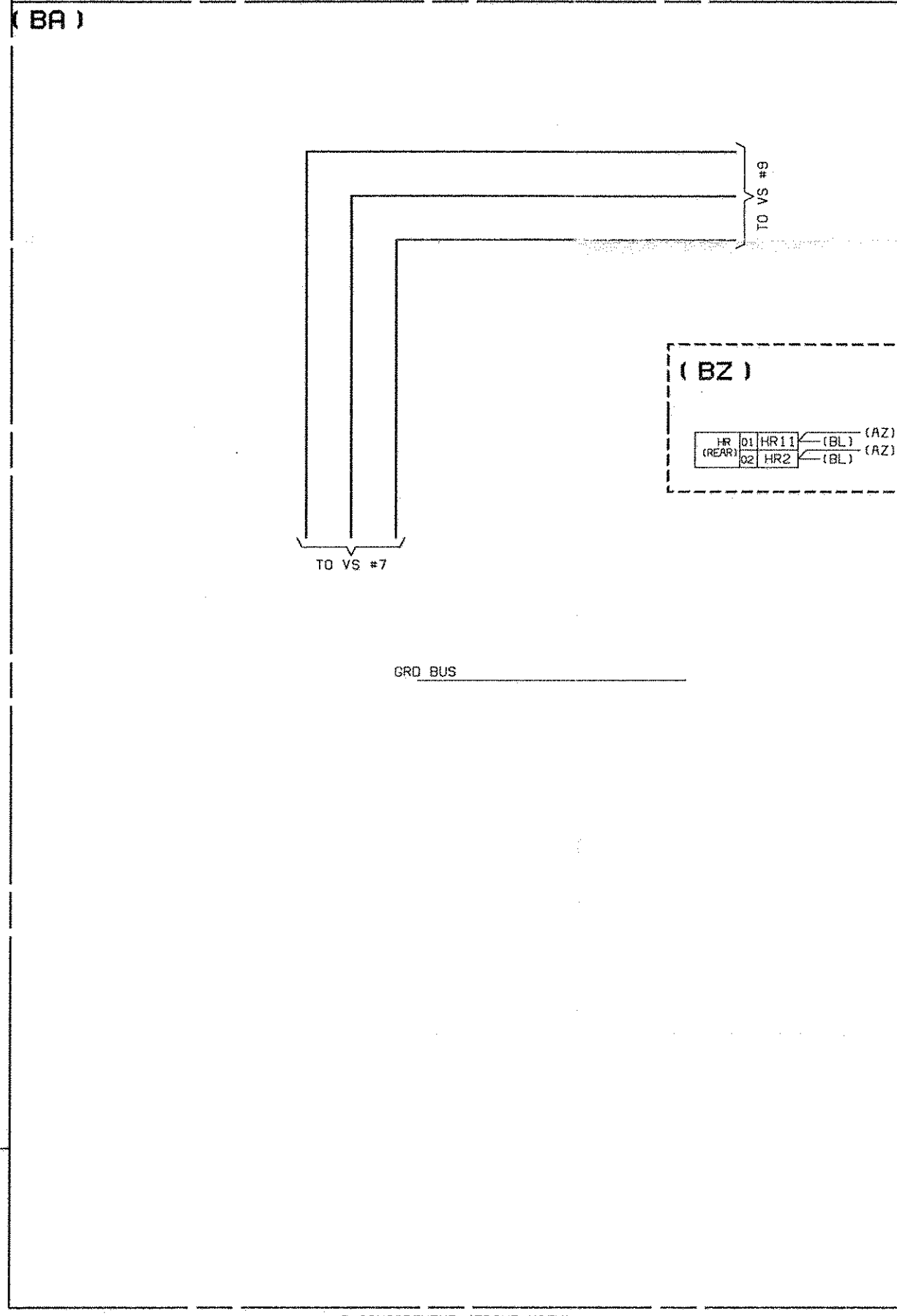
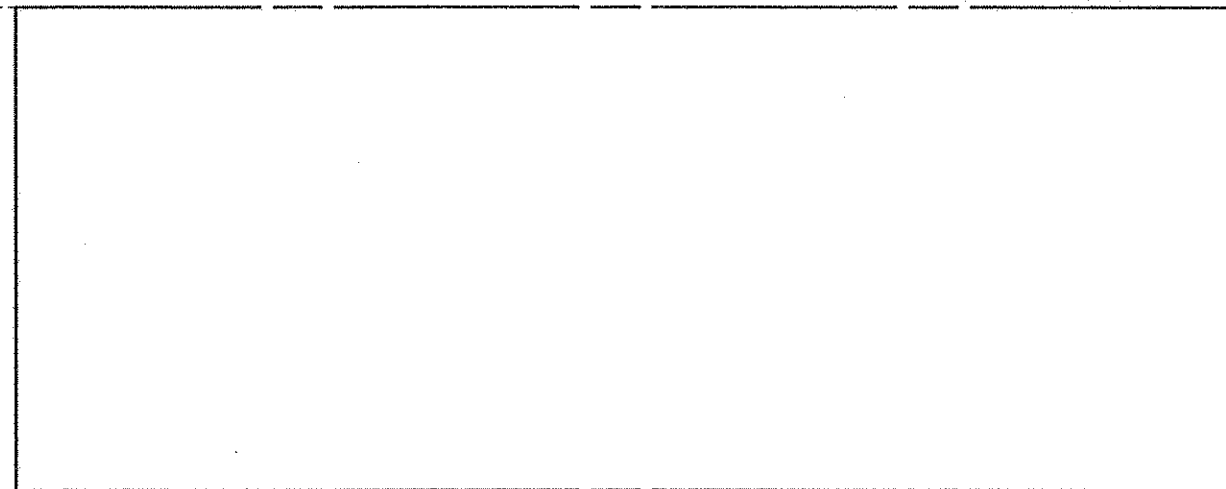
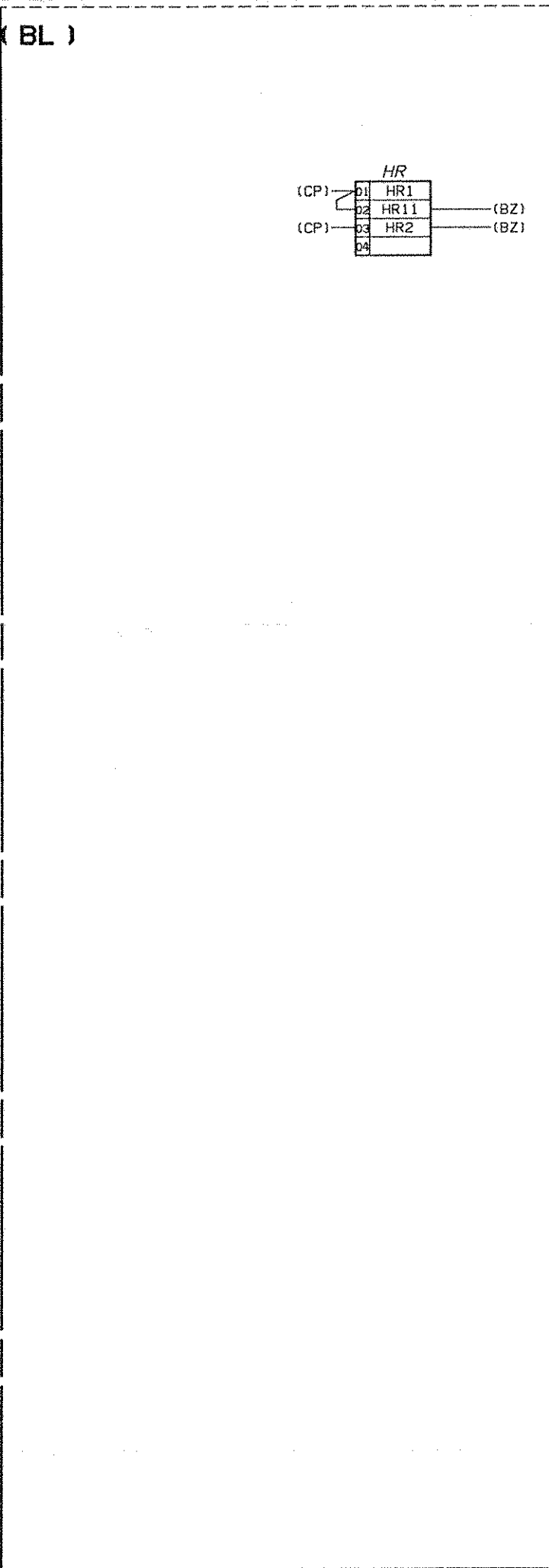
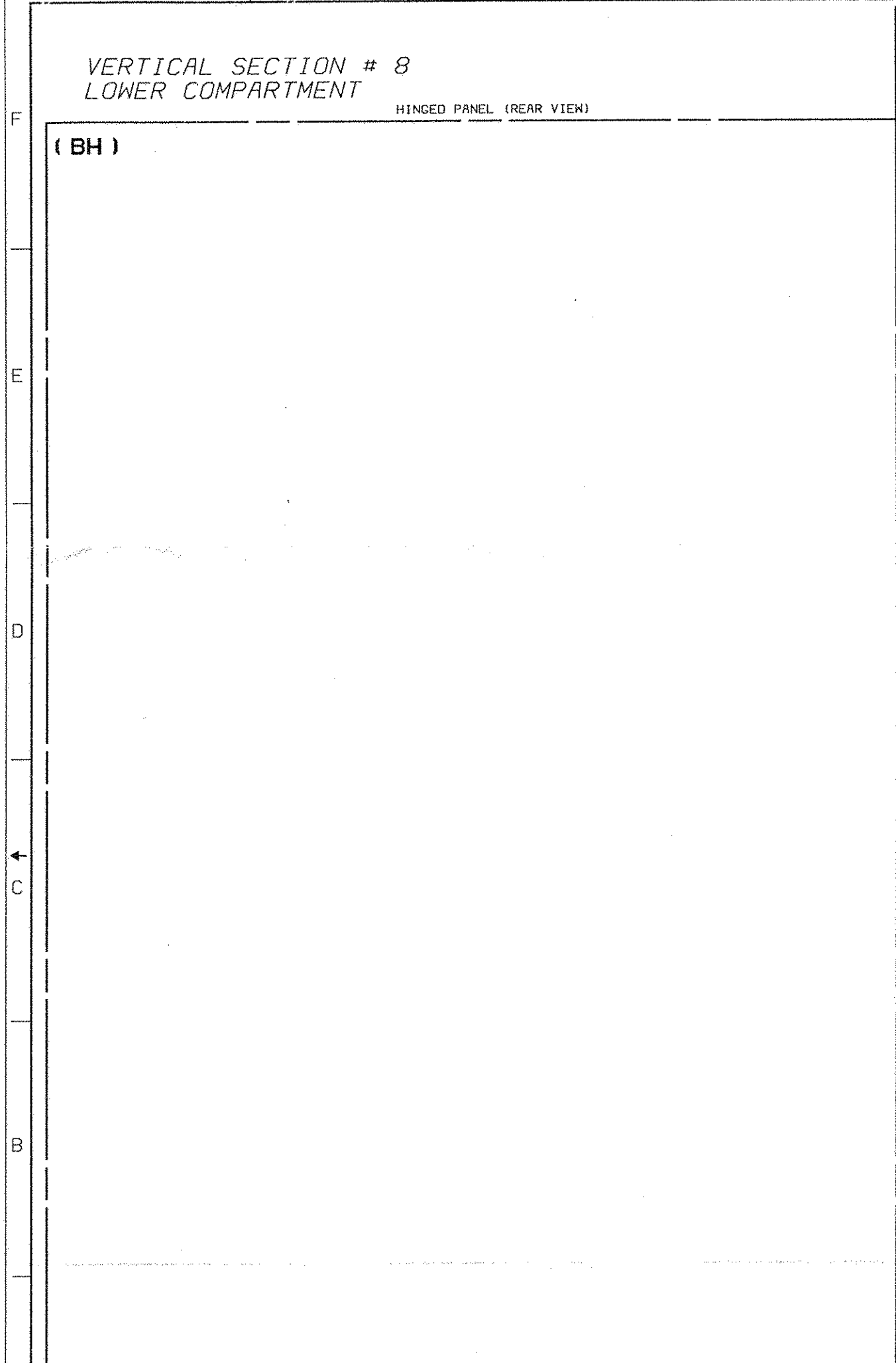
RIGHT SIDE SHEET



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB TITLE CONNECTION DIAGRAM VERT. SECT. 7  
SIZE FSCM DWG NO. 6588H07  
SHEET 2 OF 2

1 1 1 0 9 8 7 6 5 4 3 2 1



LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

1	S.O. 7145588 G.O. BSHR-45014 CHANGE
---	---

**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION.  
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
#14 WIRE REQUIRED, EXCEPT AS NOTED. DUMMY FUSE SHORT CKT. TERM BLK - PULL FUSE - HEAVY DUTY TERM BLK

DEPT	6508BKD	DATE	07/30/82	<b>Westinghouse</b>	
ENGR	R. MATSKO	TITLE	INDOOR VACCLAD-W SWITCHGEAR	SCI MAHONEY PRISON FRACKVILLE, PA.	
SIZE	D	SHEET	1 OF 2	6588H08	6062

1 1 1 0 9 8 7 6 5 4 3 2 1

11 10 9 8 7 6 5 4 3 2 1

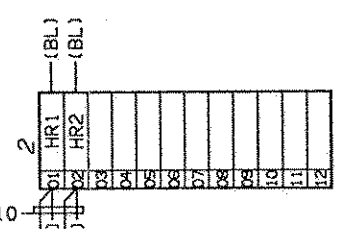
A COMPARTMENT (FRONT VIEW)

VERTICAL SECTION # 8  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

(CP)



NOTE TO CUSTOMER:  
REMOVE THESE WIRES BEFORE  
SWGR. IS ENERGIZED

RIGHT SIDE SHEET

VERTICAL SECTION # 8

(AH)

(AL)

(AR)

(AA)

(AZ)



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB	TITLE CONNECTION DIAGRAM VERT. SECT. 8	
SIZE	FSCM	DWG NO. 6588H08
D		SHEET 2 OF 2

6062

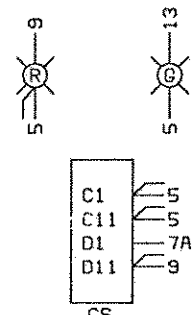
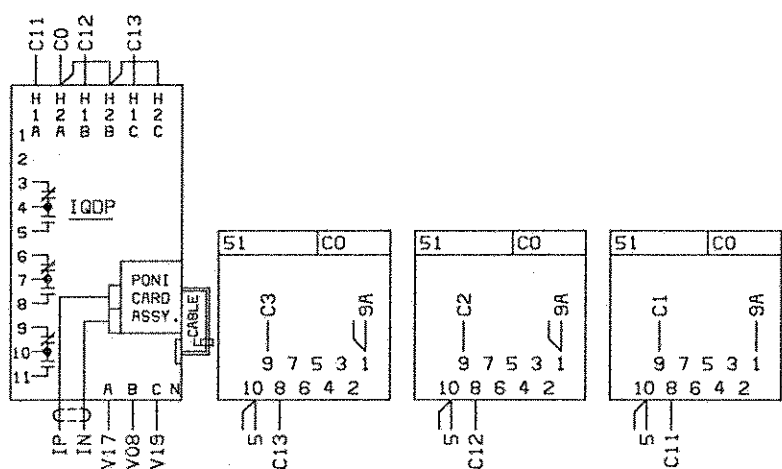
11 10 9 8 7 6 5 4 3 2 1



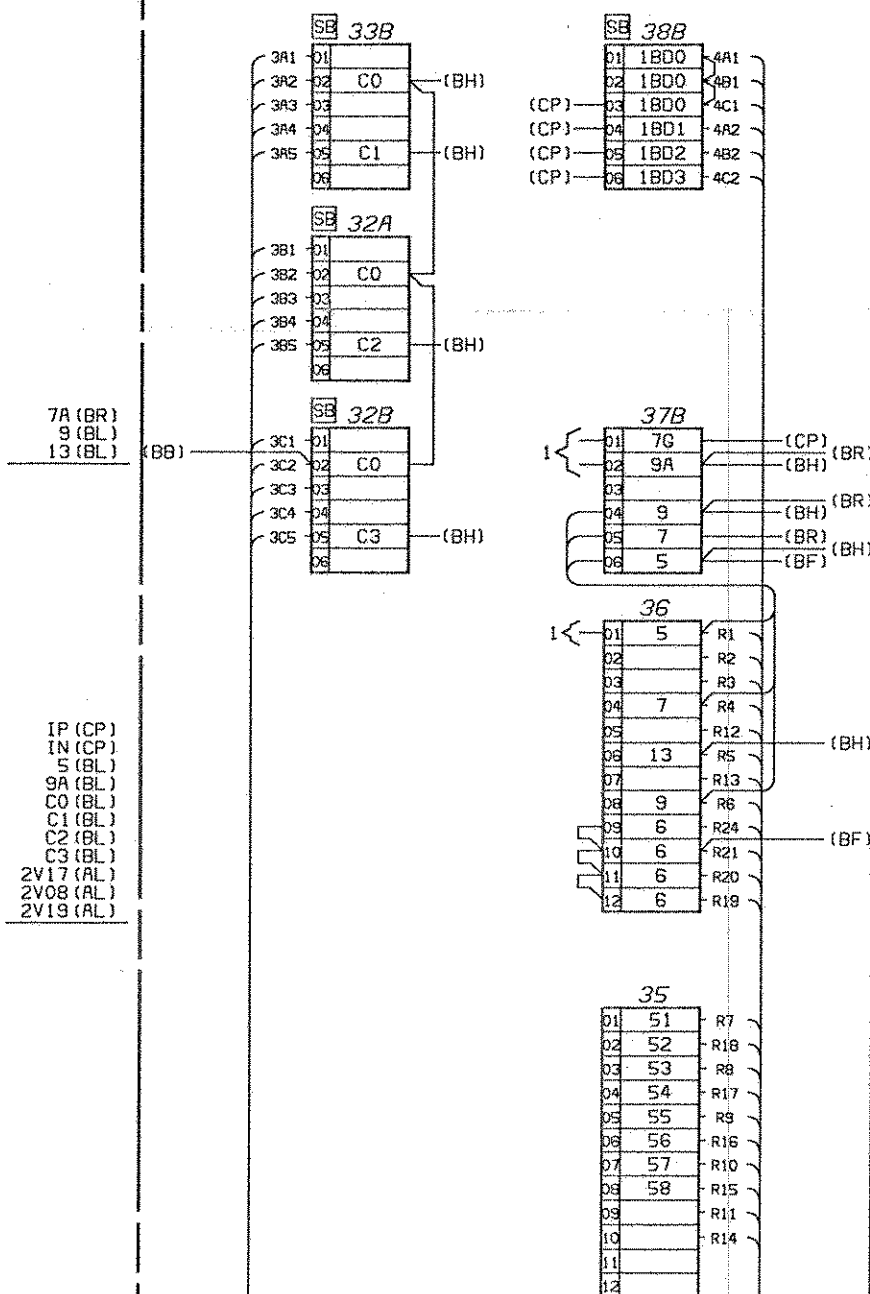
VERTICAL SECTION # 9  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

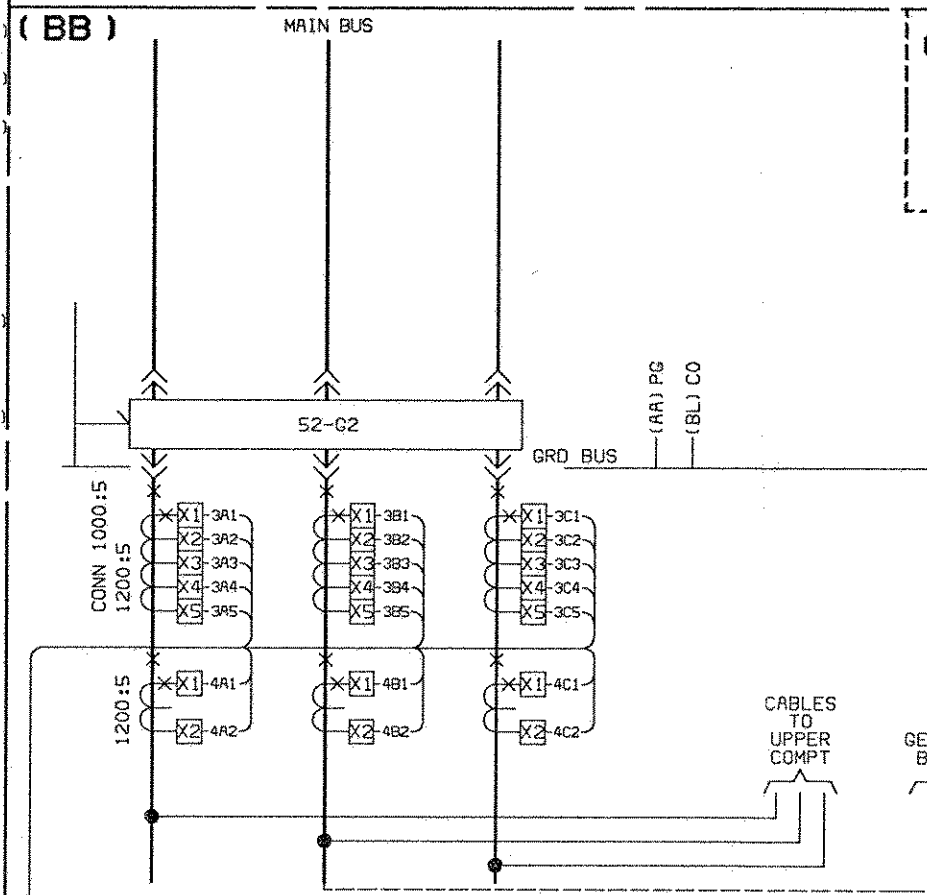


(BL)

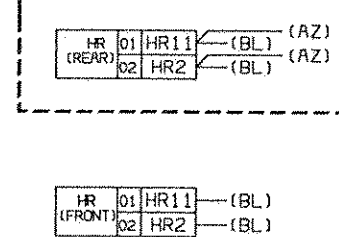


(BF)

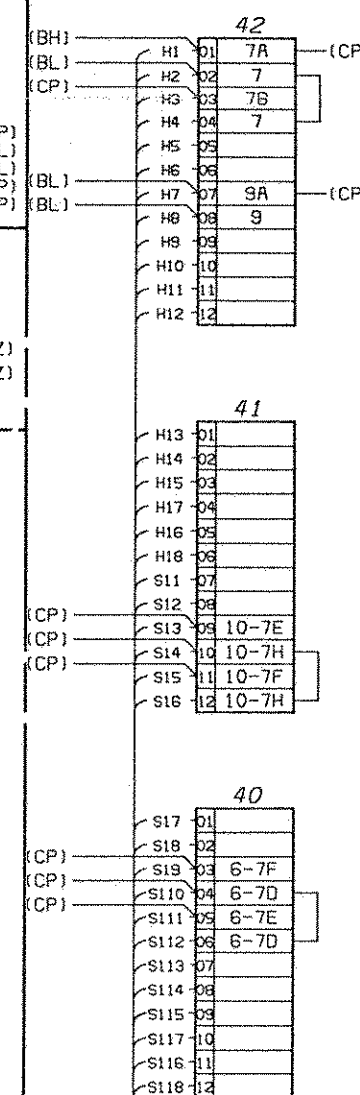
(BB)



(BZ)



(BR)



REMOTE GENERATOR CONTROL

LEFT SIDE SHEET

RIGHT SIDE SHEET

NOTE TO CUSTOMER:

MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAKOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMO FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD. \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:

#14 WIRE REQUIRED, EXCEPT AS NOTED. DUMMY FUSE SHORT CKT. TERM BLK PULL FUSE HEAVY DUTY TERM BLK

DFTM WALLACE	DATE 8/30/82	Westinghouse	
ENG R. FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
INDOOR VACCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 9		50VCP-W250	
SIZE	PSCH NO	DWG NO	
SHEET 1 OF 2		6588H09 6062	

1  
S.O. 716588  
P.O. BSHR-45014  
CHANGE

1 1 1 0 9 8 7 6 5 4 3 2 1

VERTICAL SECTION # 9  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

SHIPPING BREAK

(AH)

(AL)

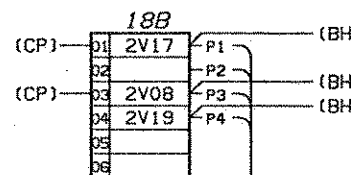
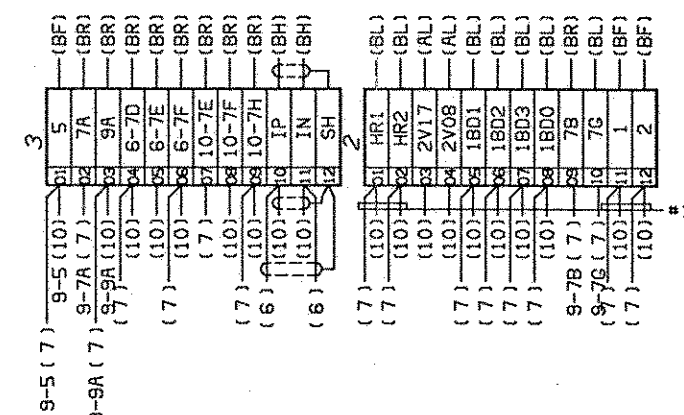
(CP)

ROOF SHEET

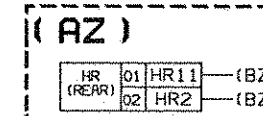
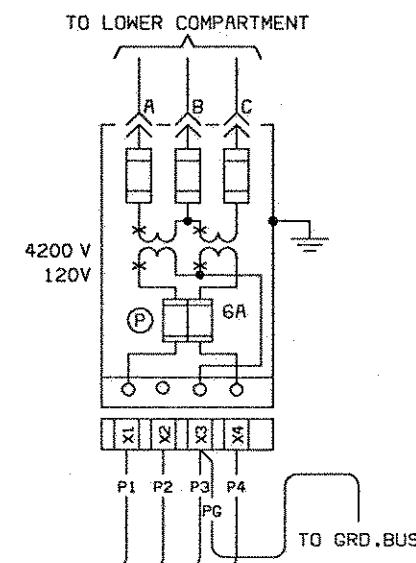
VERTICAL SECTION # 9

RIGHT SIDE SHEET

(AR)



(AR)



(AB)

FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY.

SUB	TITLE CONNECTION DIAGRAM VERT. SECT. 9	
SIZE	FSCM	DWG NO. 6588H09
		SHEET 2 OF 2

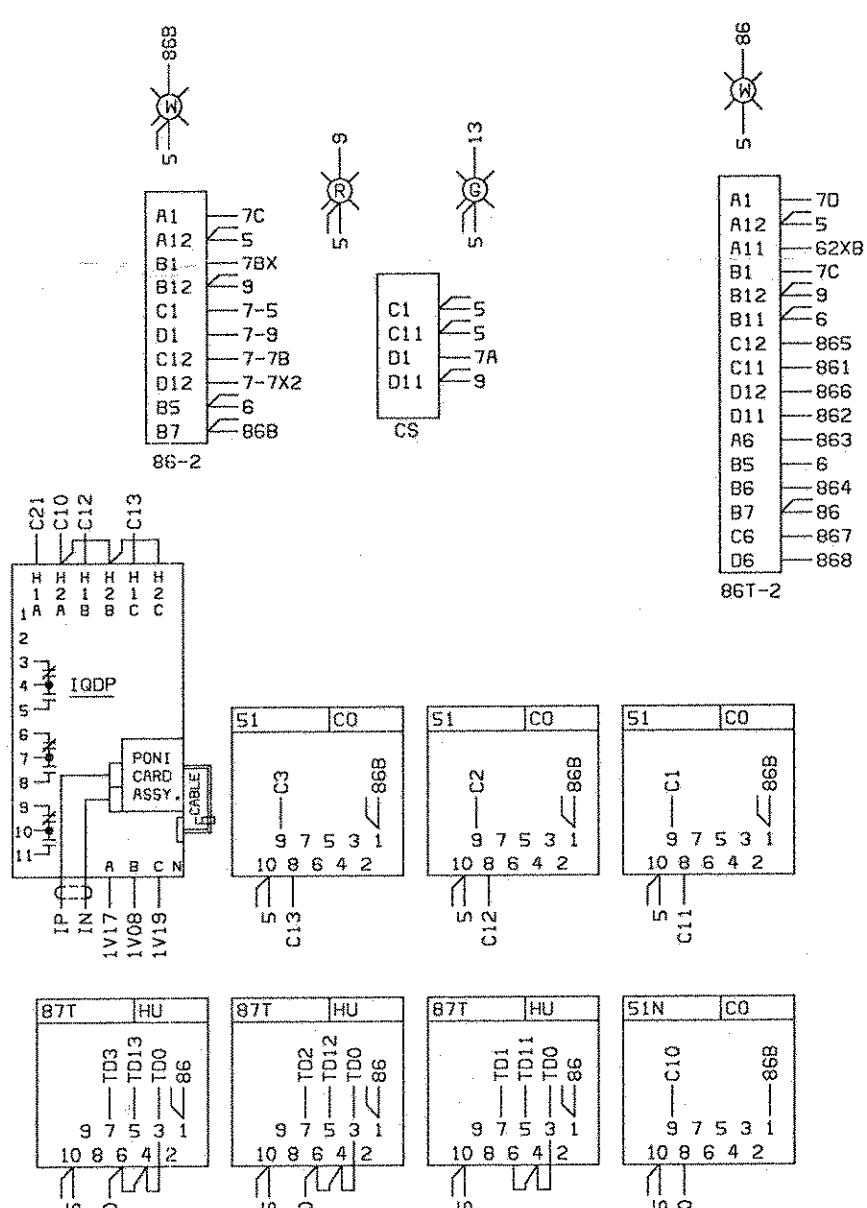
1 1 1 0 9 8 7 6 5 4 3 2 1



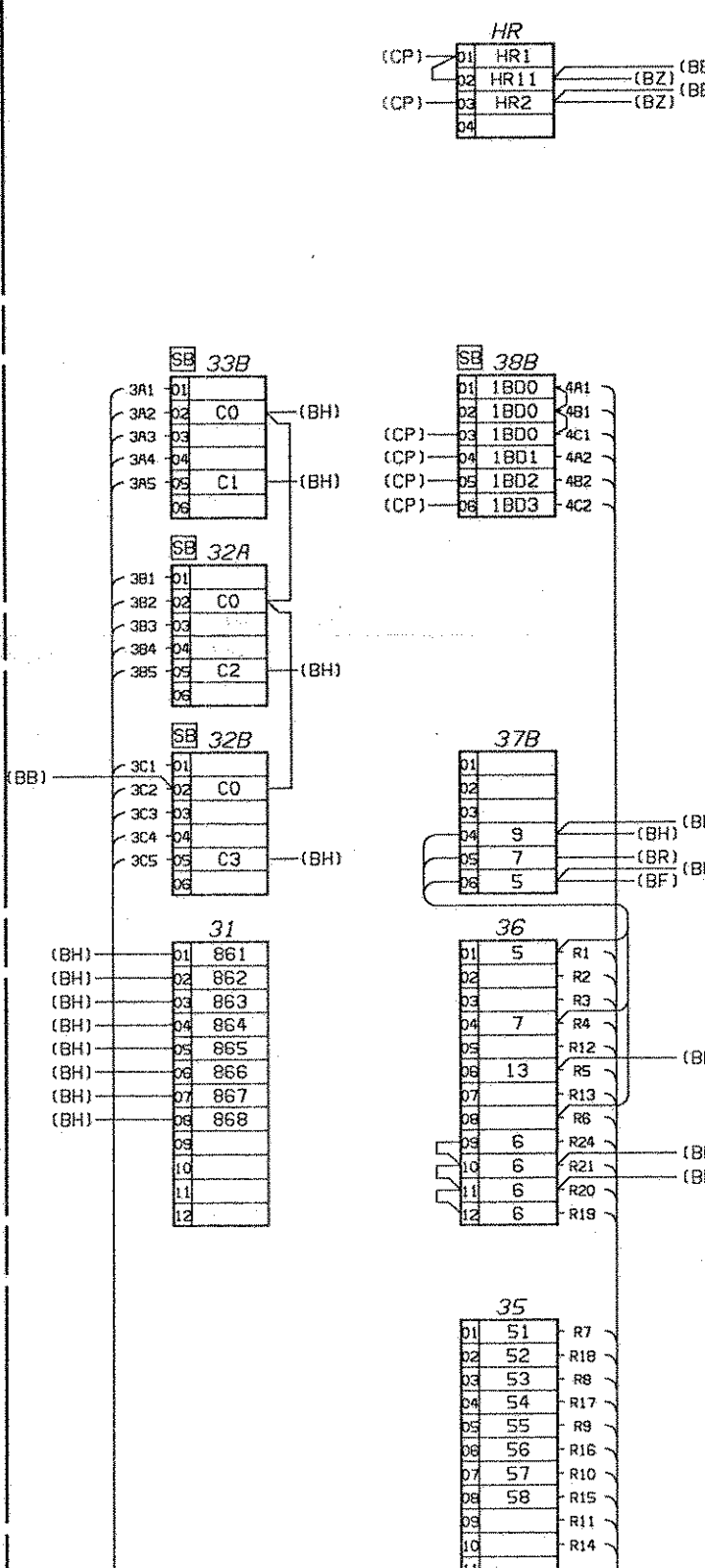
VERTICAL SECTION # 10  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

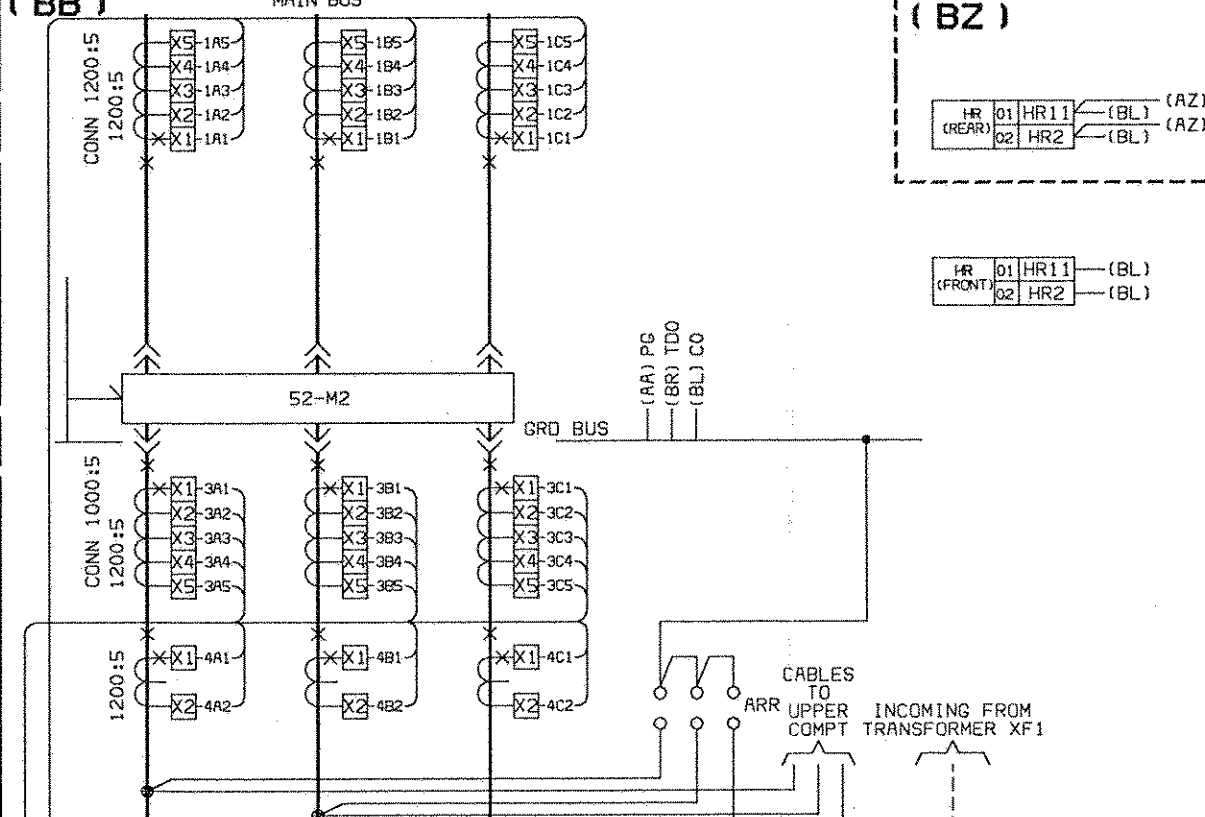


(BL)

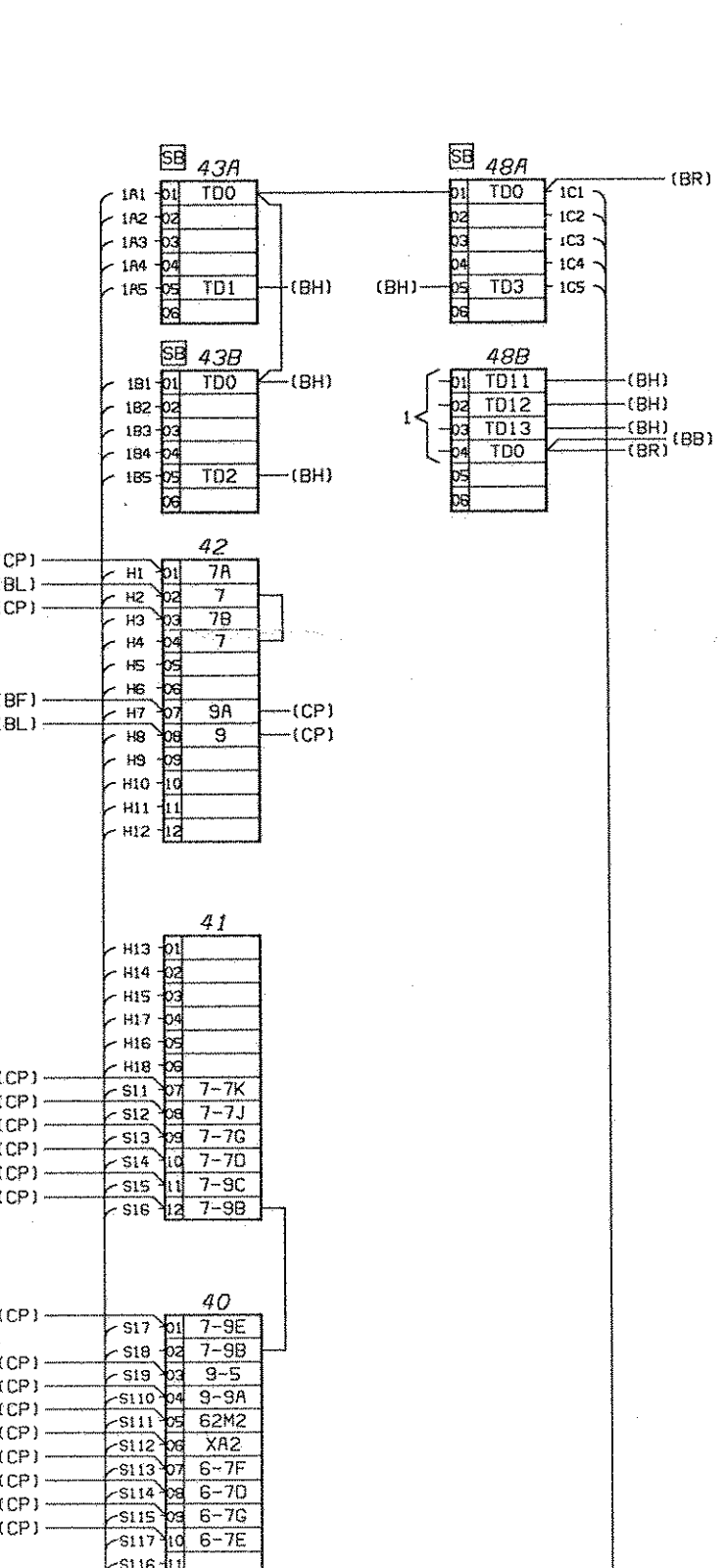


(BF)

(BB)



(BR)



TO REMOTE XFMR  
DIFF. CT'S

LEFT SIDE SHEET

RIGHT SIDE SHEET

NOTE TO CUSTOMER:  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION.  
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DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
#14 WIRE REQUIRED, EXCEPT AS NOTED.

LEGEND:  
□ DUMMY FUSE    □ SHORT CKT. TERM BLK  
⊖ PULL FUSE    ⊖ HEAVY DUTY TERM BLK

DATE 8/7/88/82	DATE 8/7/88/82	Westinghouse	
DRWN WALLACE	DATE	SI MAHONEY PRISON FRACKVILLE, PA.	
ENGR R.FIELDS	DATE	INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250	
TITLE		CONNECTION DIAGRAM VERT. SECT. 10	
SIZE		SHEET 1 OF 2	
SHEET		6588H10	
6062			

1	2	3
S.O. 71Y6588	71Y6588	71Y6588
E.O. BSHR-45014	MINOR WIRE CHANGES.	DELETED DEV. 79, 7900, 6200-2 DIODE & ASSC. WIRING.
CHANGE	09/17/92	01/25/93
	R. FIELDS	D. NGUYEN
	R. MATSKO	R. FIELDS
		R. MATSKO

VERTICAL SECTION # 10  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

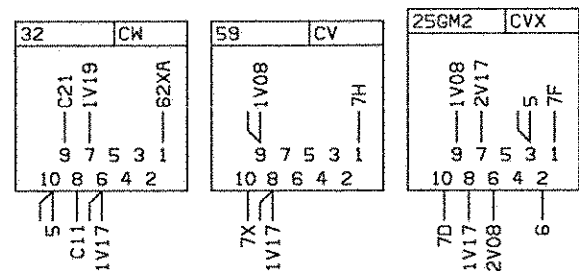
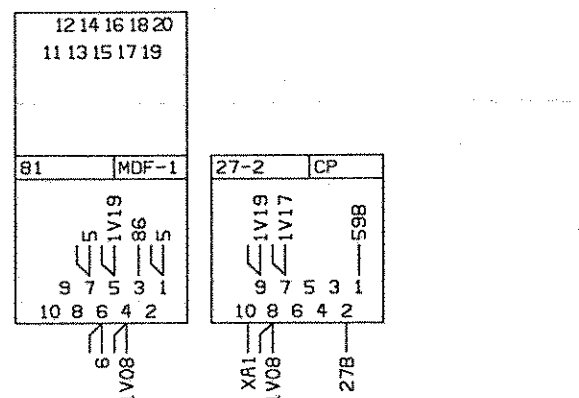
RIGHT SIDE SHEET

(AH)

(AL)

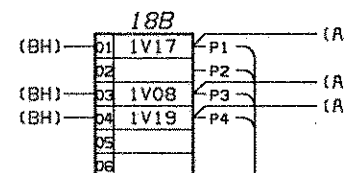
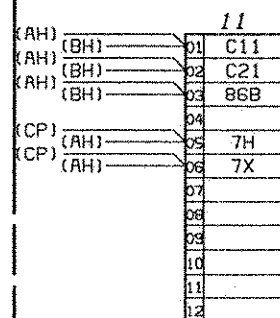
(CP)

(AR)



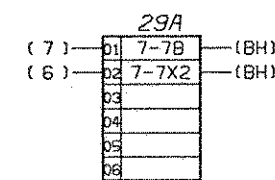
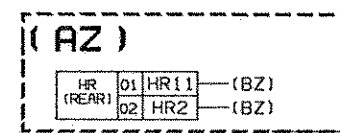
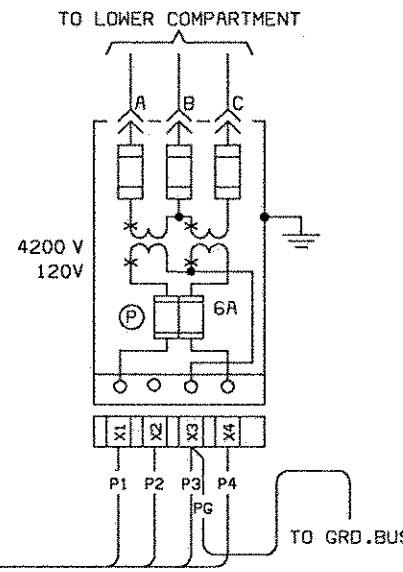
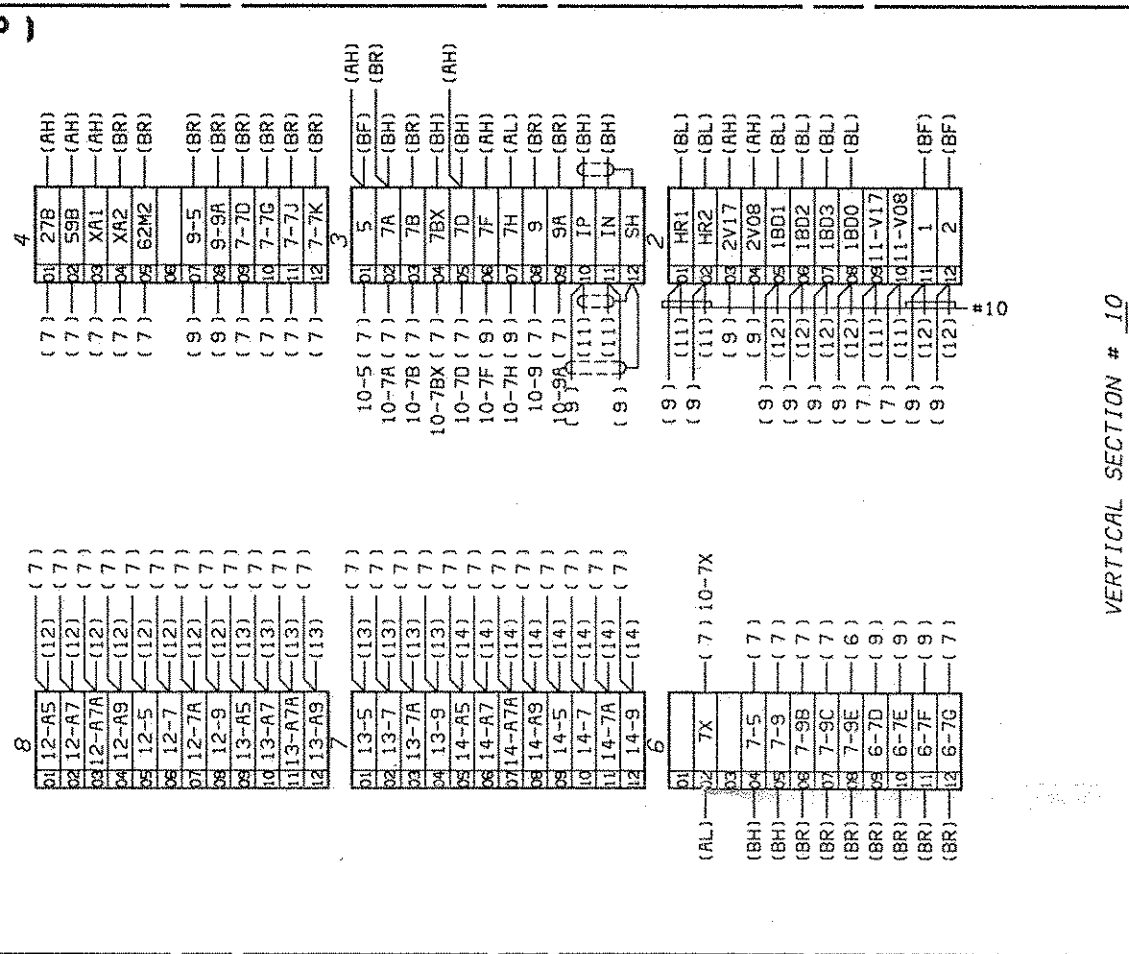
- 5 (CP)
- 6 (BF)
- 86 (BF)
- 27B (CP)
- 59B (CP)
- XA1 (CP)
- 1V17 (AL)
- 1V08 (AL)
- 1V19 (AL)

- AL1 (AL)
- AL2 (AL)
- 7D (CP)
- 7F (CP)
- C11 (AL)
- C21 (AL)
- 62XA (BF)
- 2V17 (CP)
- 2V08 (CP)



(AR)

(AB)





VERTICAL SECTION # 11  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

RIGHT SIDE SHEET

(AH)

(AL)

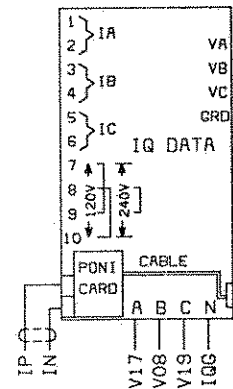
(CP)

(AR)

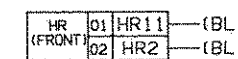
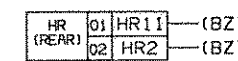
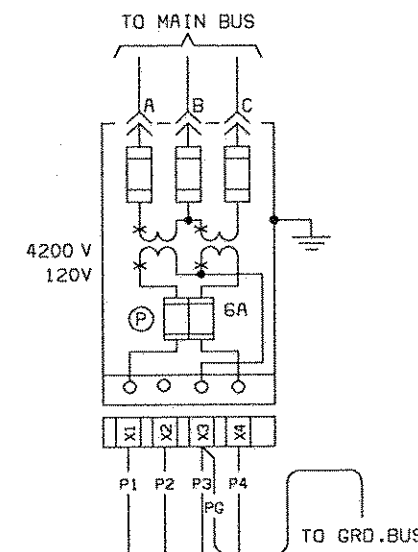
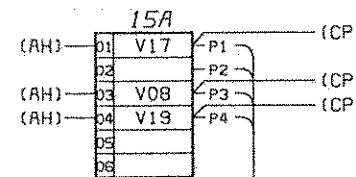
(AA)

(AB)

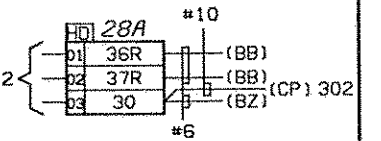
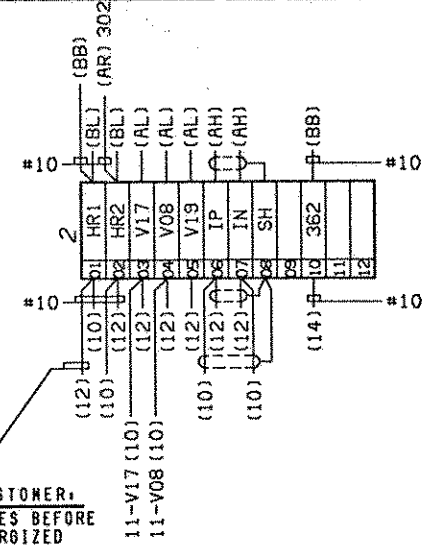
(AZ)



IP (CP)  
IN (CP)  
V17 (AL)  
V08 (AL)  
V19 (AL)  
LOG (BB)



NOTE TO CUSTOMER:  
REMOVE THIS WIRES BEFORE  
SWGR. IS ENERGIZED



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1,  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB	TITLE	DWG NO.
	CONNECTION DIAGRAM VERT. SECT. 11	6588H11
SIZE	FSCM	SHEET 2 OF 2
D		6062



VERTICAL SECTION # 12  
LOWER COMPARTMENT

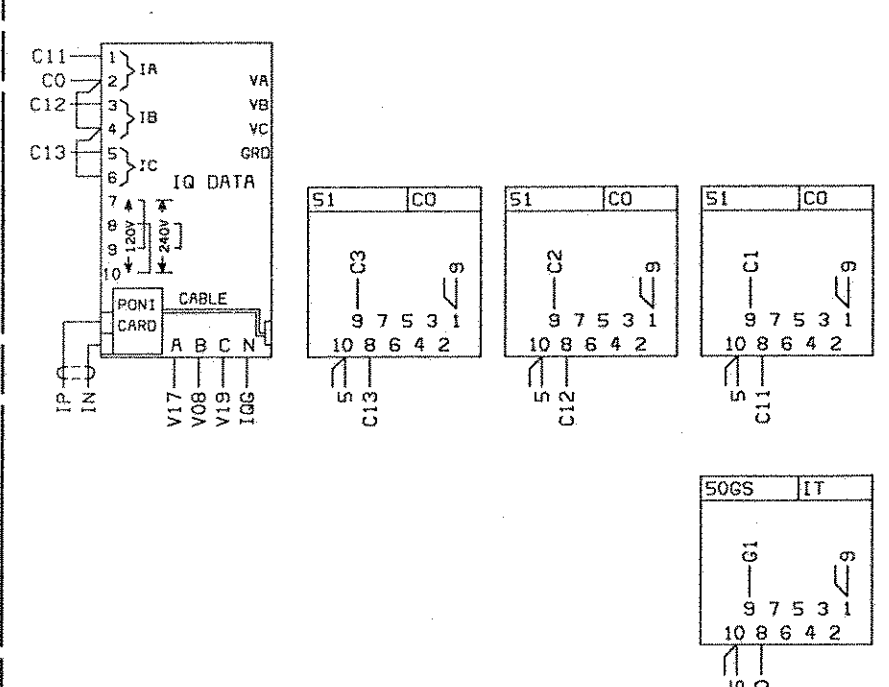
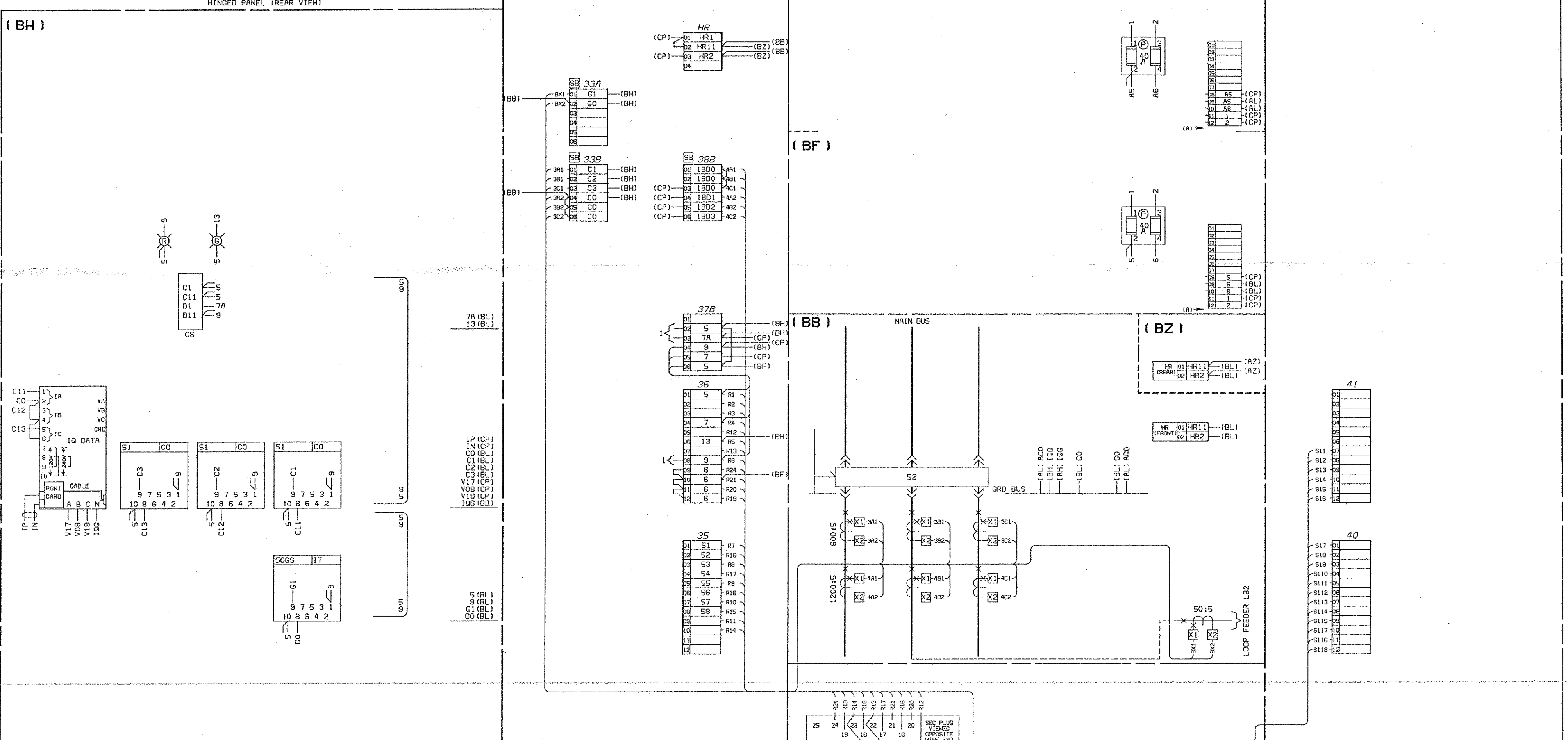
HINGED PANEL (REAR VIEW)

(BH)

(BL)

(AF)

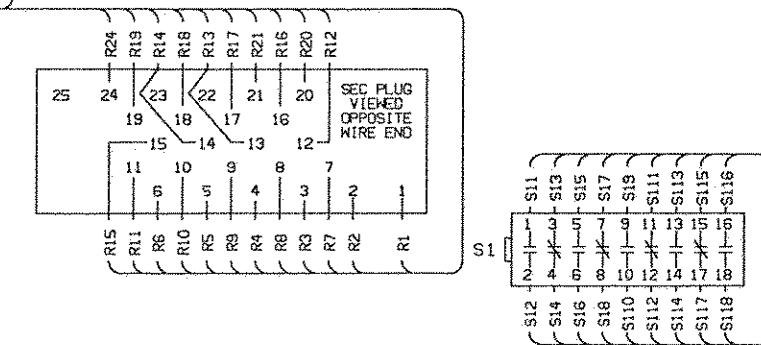
(BR)



REMOTE GENERATOR CONTROL

LEFT SIDE SHEET

RIGHT SIDE SHEET



**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE ENO FOR PHASE ROTATION.  
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
#14 WIRE REQUIRED. DUMMY FUSE SHORT CKT. TERM BLK  
#14 WIRE REQUIRED. - PULL FUSE - HEAVY DUTY TERM BLK

DPTH WALLACE		DATE 08/18/92	<b>Westinghouse</b>	
ENG R. FIELDS		DATE		
INDOOR VACCLAD-W SWITCHGEAR			50VCP-N250	
CONNECTION DIAGRAM VERT. SECT. 12			SIZE FSCM NO DWG NO	
R. MATSKO			SHEET 1 OF 2 6588H12 6062	

3.0.71Y588  
3.0.B58R-45014  
CHANGE

VERTICAL SECTION # 12  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

REMOTE GENERATOR CONTROL ①

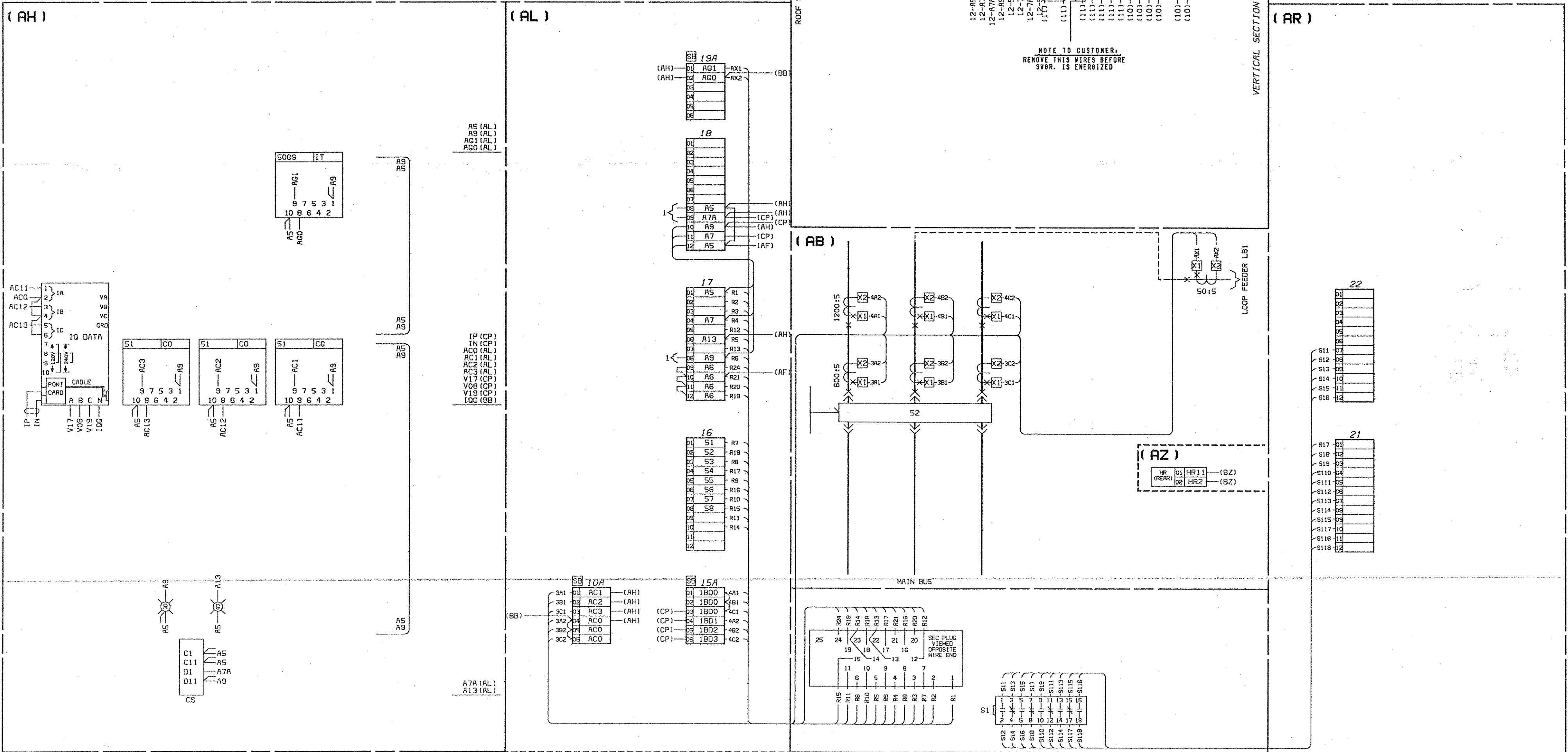
LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

(CP)

RIGHT SIDE SHEET

VERTICAL SECTION # 12



FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1.  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB TITLE	CONNECTION DIAGRAM VERT. SECT. 12
SIZE	F5CH
DWG. NO.	6588H12
SHEET 2 OF 2	

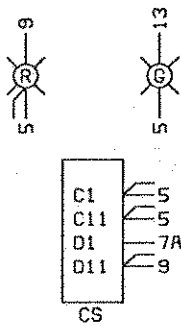
6062



VERTICAL SECTION # 13  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

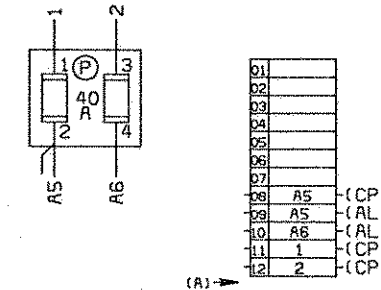
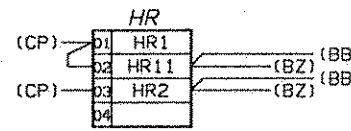


5 (BL)  
7A (BL)  
9 (BL)  
13 (BL)

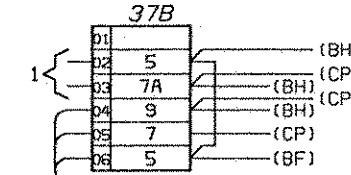
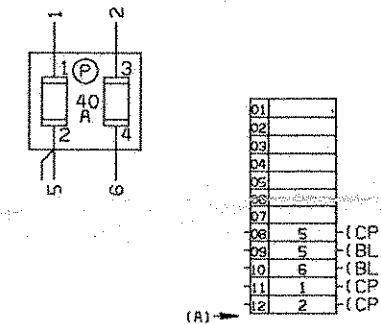
(BL)

(AF)

(BR)



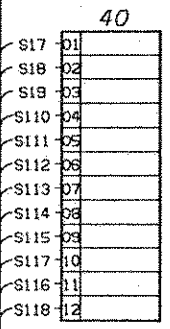
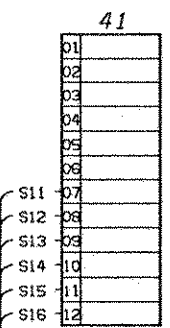
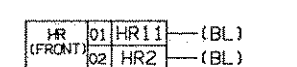
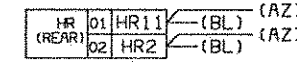
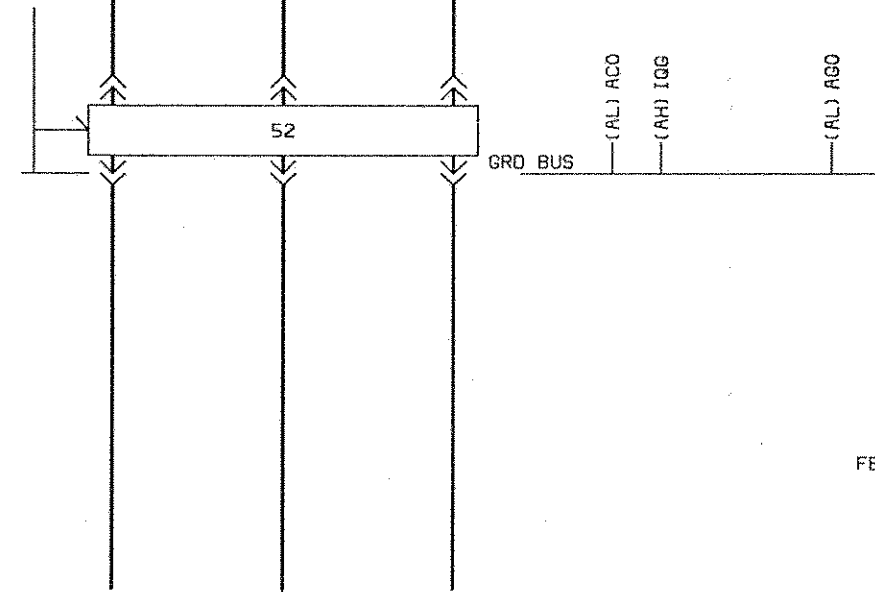
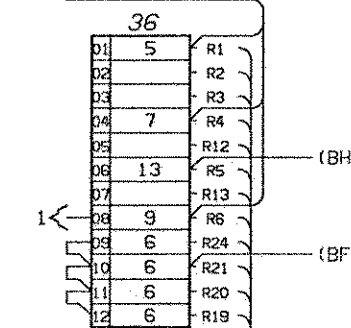
(BF)



(BB)

MAIN BUS

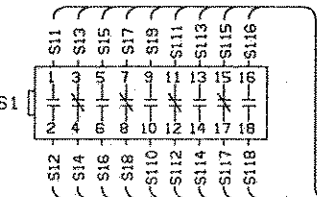
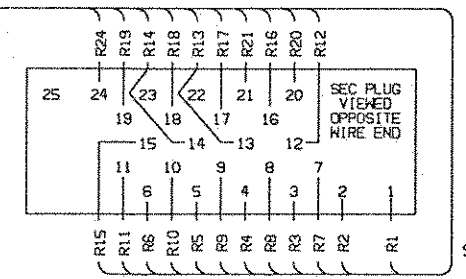
(BZ)



REMOTE GENERATOR CONTROL

LEFT SIDE SHEET

RIGHT SIDE SHEET



B COMPARTMENT (FRONT VIEW)

NOTE TO CUSTOMER:  
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\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
#14 WIRE REQUIRED, EXCEPT AS NOTED. (C) - DUMMY FUSE (S) - SHORT CKT. TERM BLK (P) - PULL FUSE (H) - HEAVY DUTY TERM BLK

DFTM WALLACE	DATE 08/18/82	Westinghouse	
ENG R.FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
65888MD		INDOOR VACUUM SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 13	
R.MATSKO		SIZE D	FSCH NO 1 OF 2
		DWG NO 65888H13	6062

1  
5.9.71Y6588  
6.0.BSHR-45014  
CHANGE

REMOTE GENERATOR CONTROL ①

VERTICAL SECTION # 13  
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

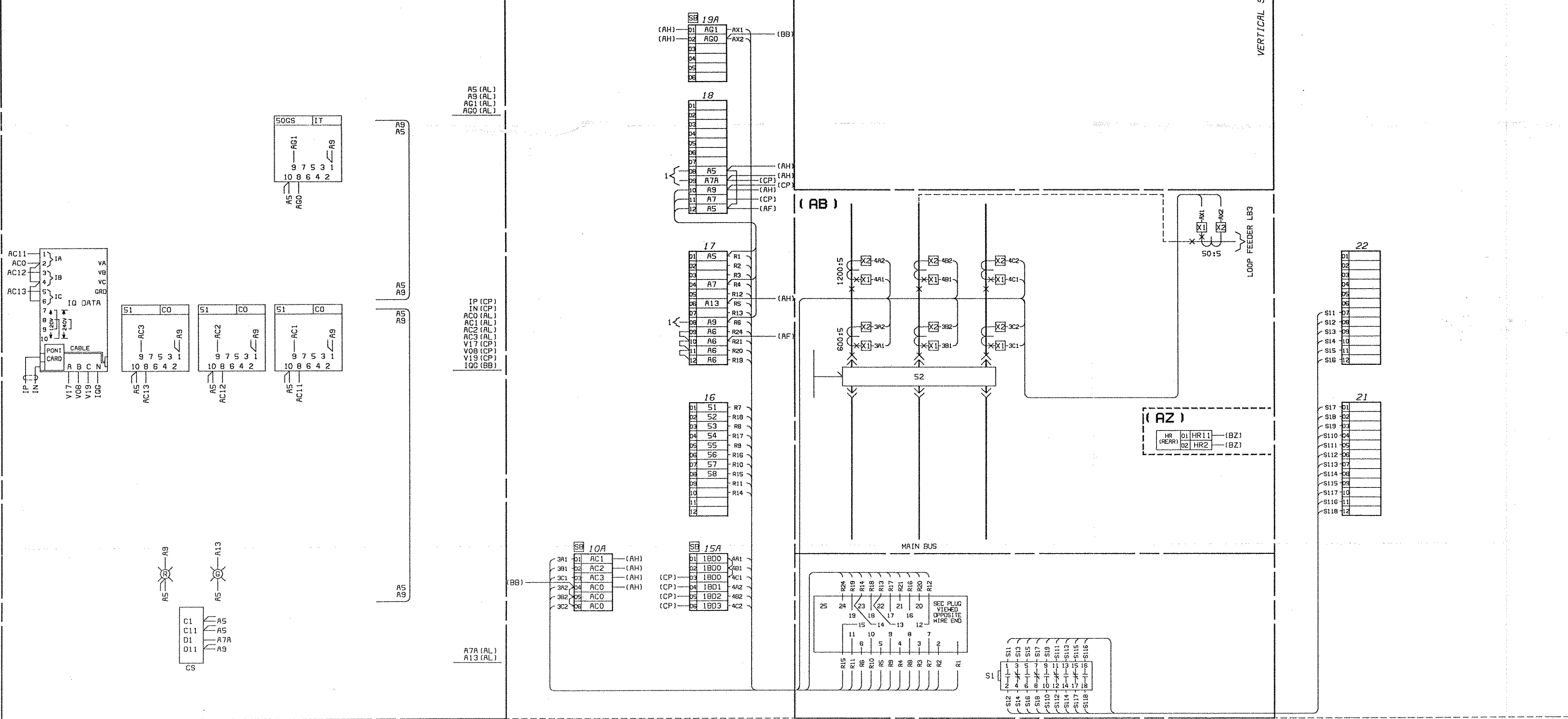
RIGHT SIDE SHEET

(AH)

(AL)

(CP)

(AR)



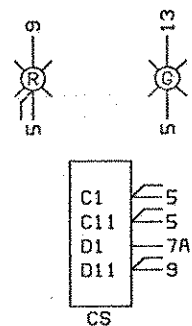
FOR SPECIAL NOTES SEE SHEET 1  
ALL REV. NOTES LISTED ON SHEET 1  
ALL OTHER SHEETS LIST REV. NO. ONLY

SUB	CONNECTION DIAGRAM VERT. SECT. 13
TITLE	
SIZE	FSCB
DWG NO.	6588H13
SHEET 2 OF 2	

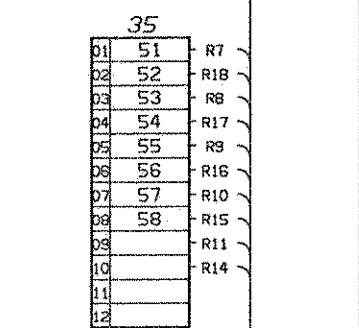
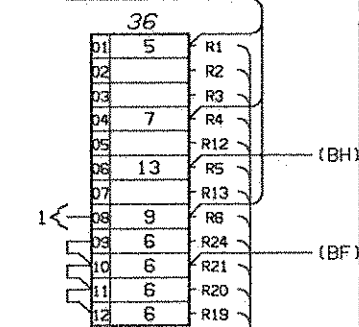
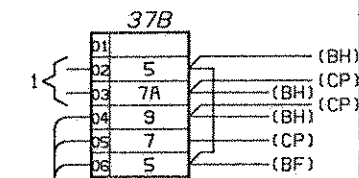
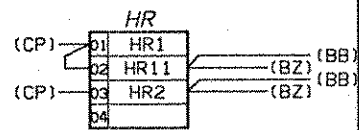
VERTICAL SECTION # 14  
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)



5 (BL)  
7A (BL)  
9 (BL)  
13 (BL)

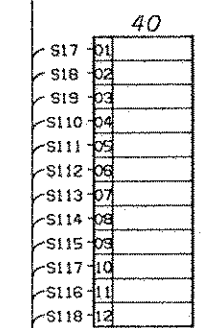
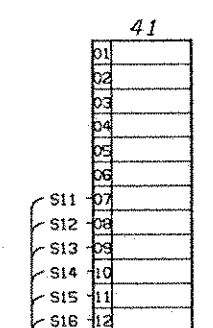
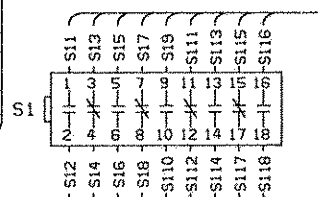
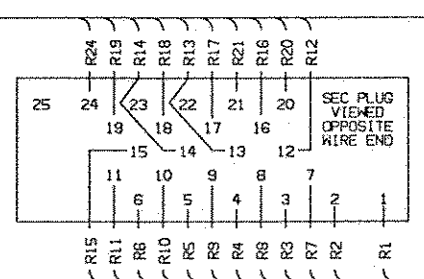
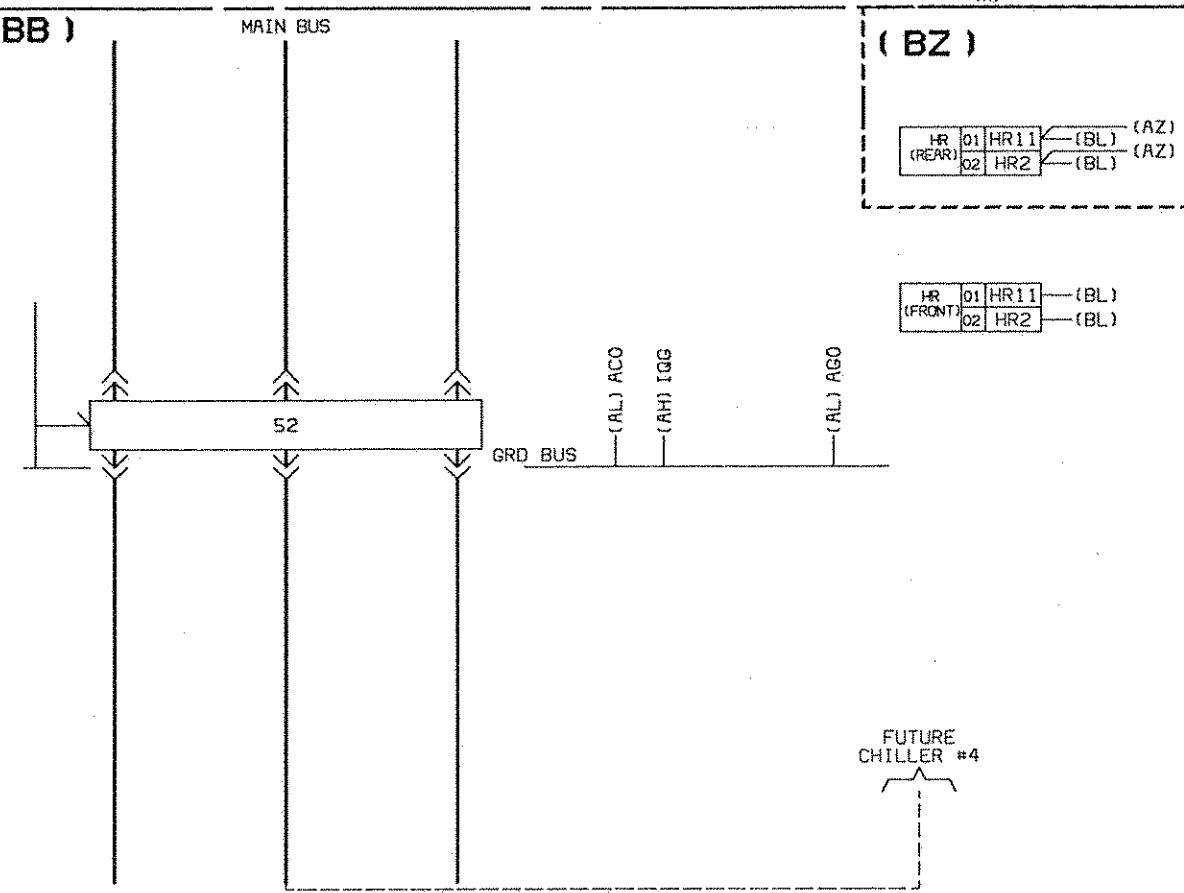
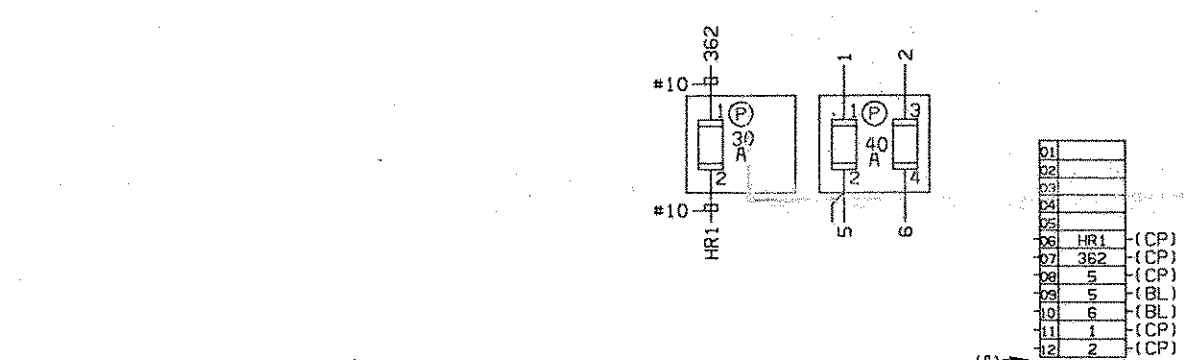


(AF)

(BF)

(BB)

(BZ)



REMOTE GENERATOR CONTROL ①

LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

1	2
S.O. 71Y6588 G.O. BSHR-45014 CHANGE	71Y6588 MINOR CHANGE TO CT R1110.
DATE 09/17/92	ENGINEER R. FIELDS R. MATSKO

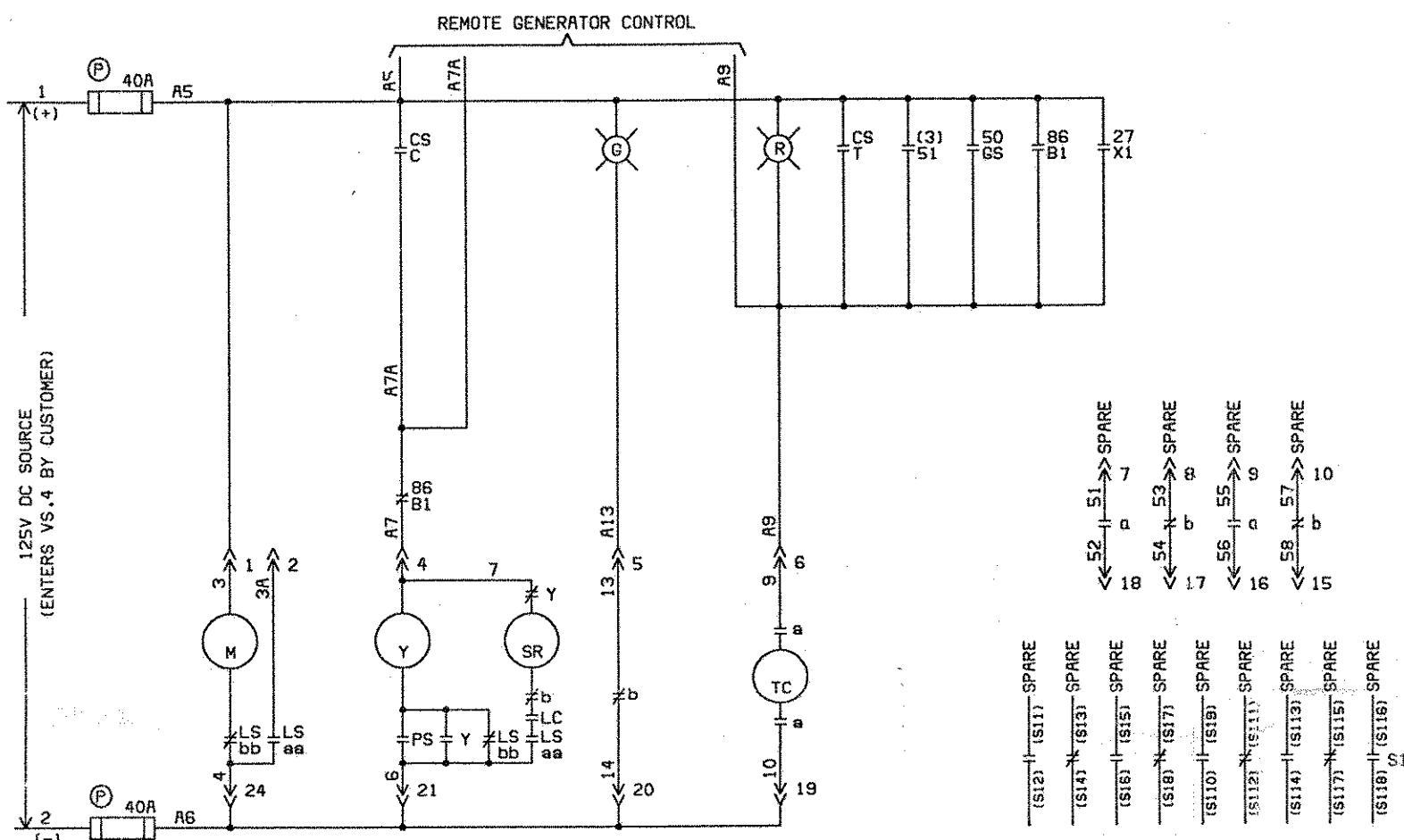
**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
- CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE, OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
#14 WIRE REQUIRED, EXCEPT AS NOTED.  
☐ - DUMMY FUSE    Ⓢ - SHORT CKT. TERM BLK  
Ⓟ - PULL FUSE    Ⓜ - HEAVY DUTY TERM BLK

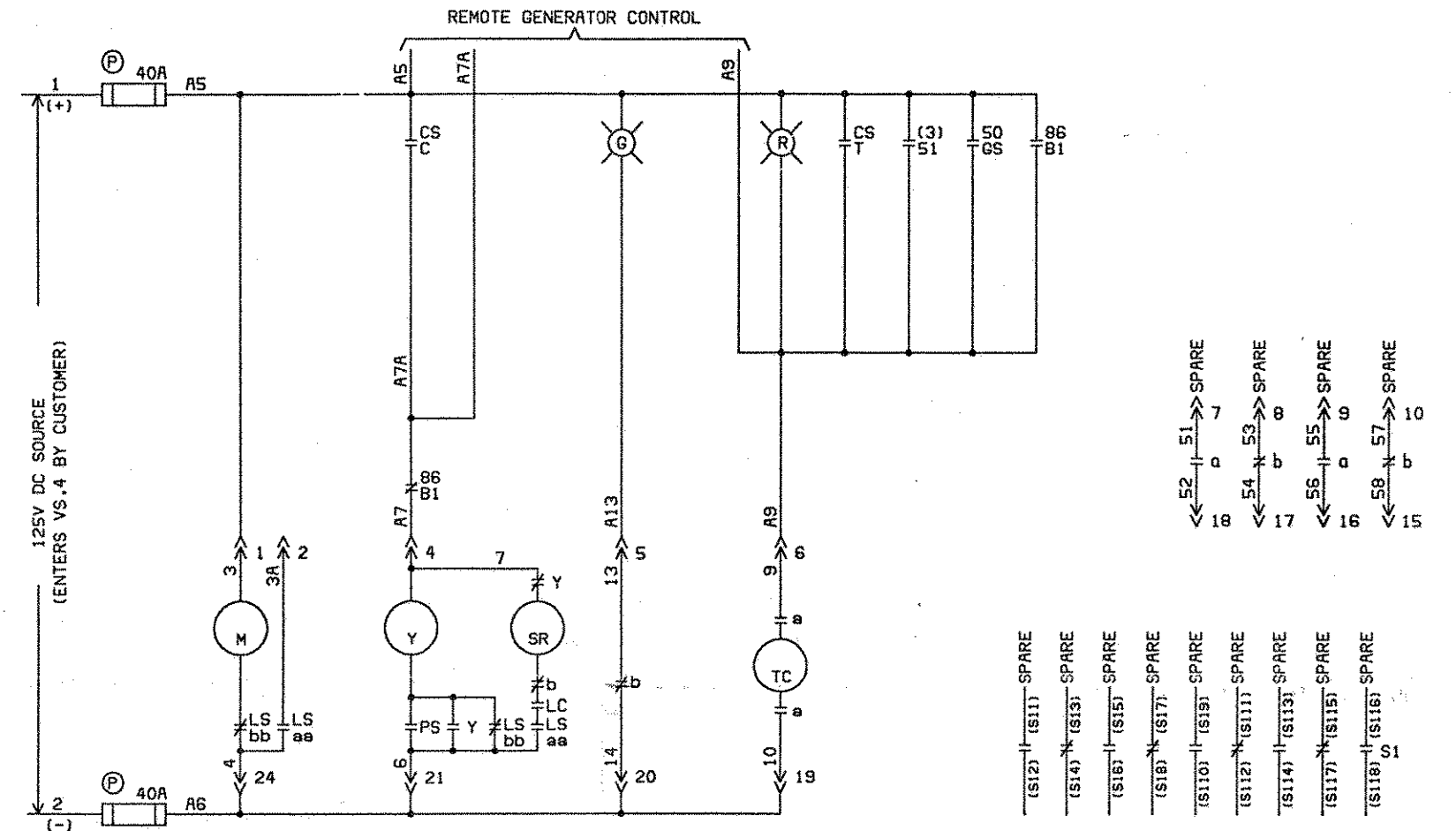
DATE 08/18/92	WESTINGHOUSE
ENGINEER R. FIELDS	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.
DATE	INDOOR VACCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 14
ENGINEER R. MATSKO	SIZE FSCR NO 6588H14
SHEET 1 OF 2	6062



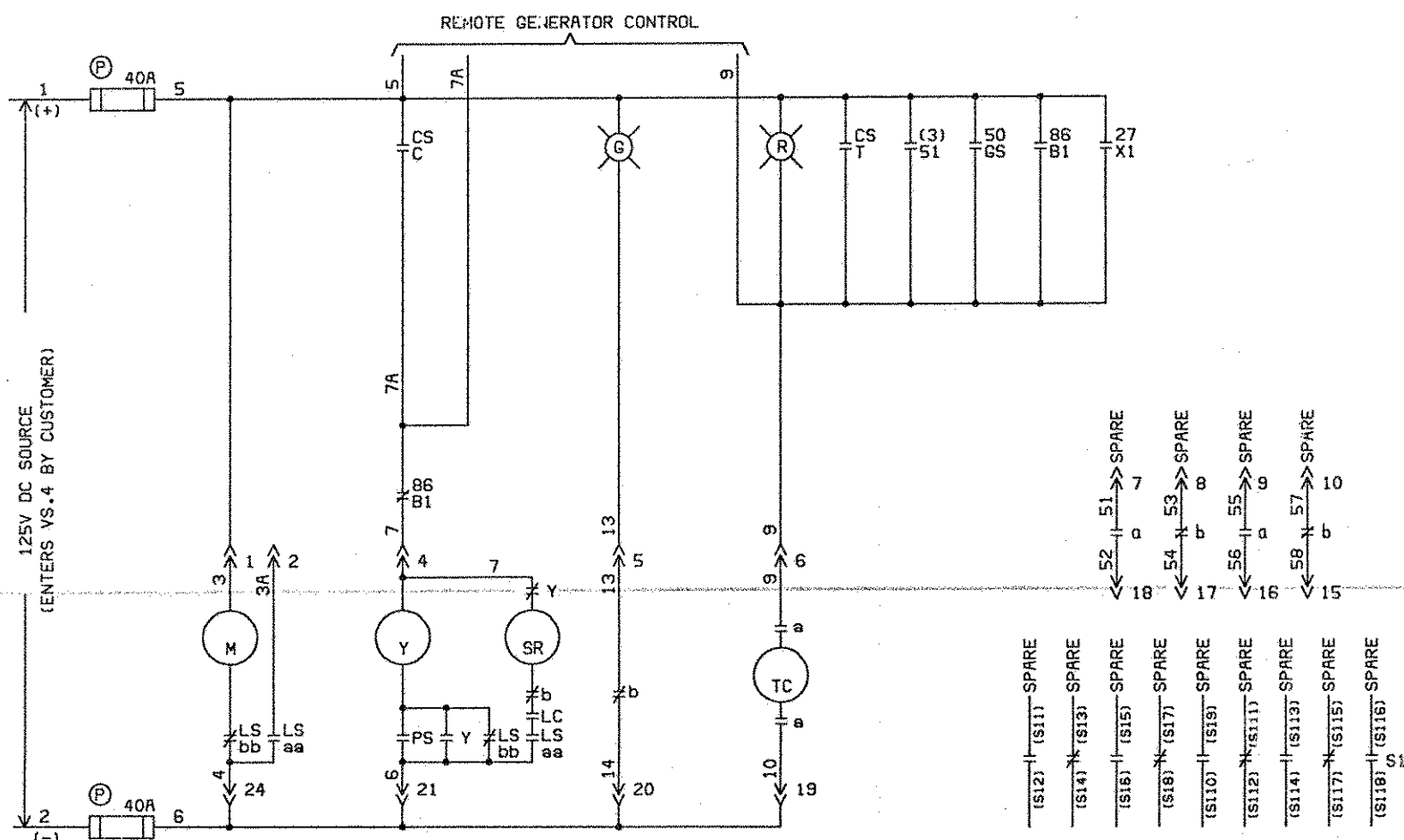




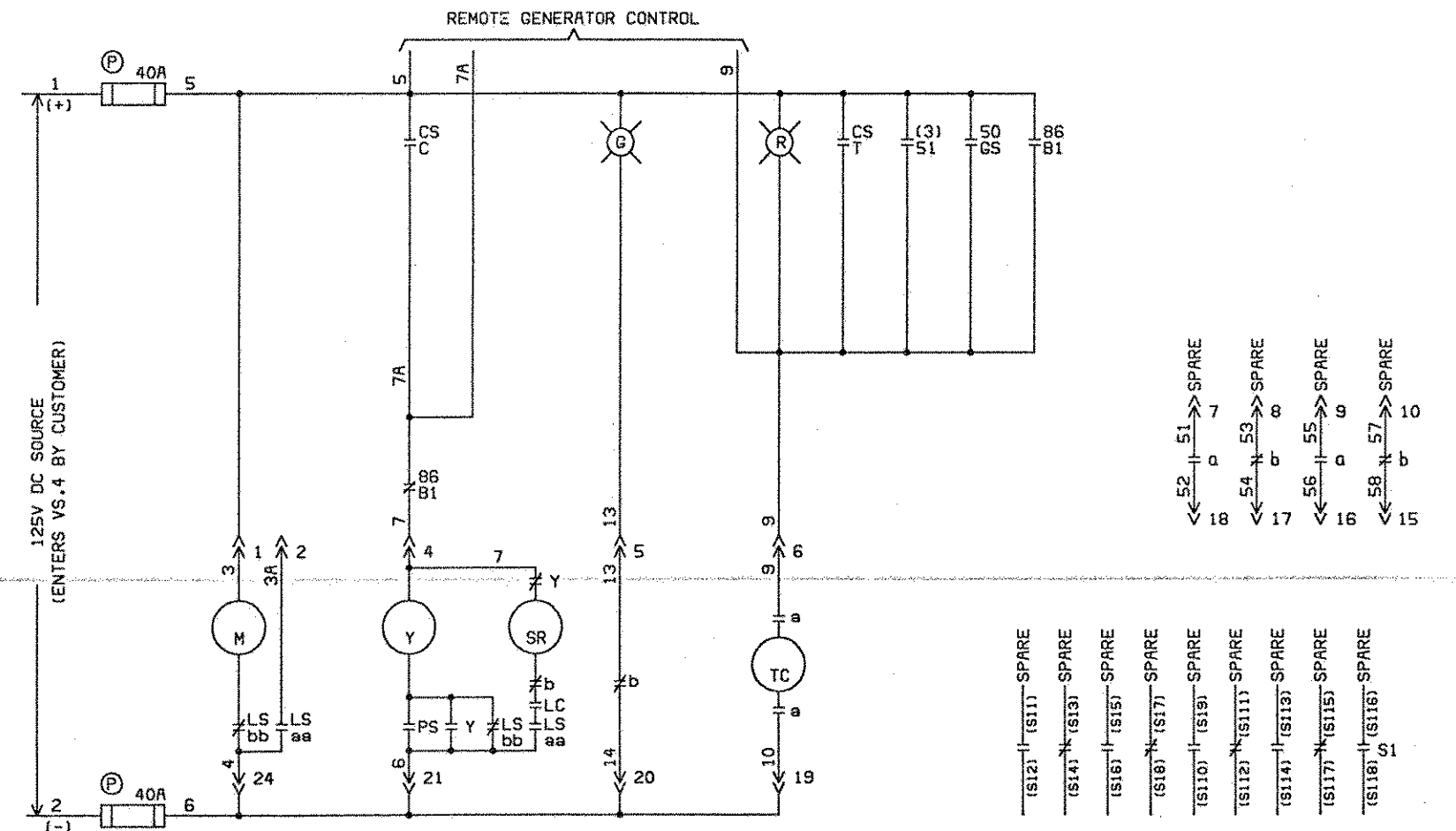
SCHEMATIC FOR FEEDER BREAKER (DEV 52)  
VERTICAL SECTION NO. 1A



SCHEMATIC FOR FEEDER BREAKER (DEV 52)  
VERTICAL SECTION NO. 3A



SCHEMATIC FOR FEEDER BREAKER (DEV 52)  
VERTICAL SECTION NO. 1B



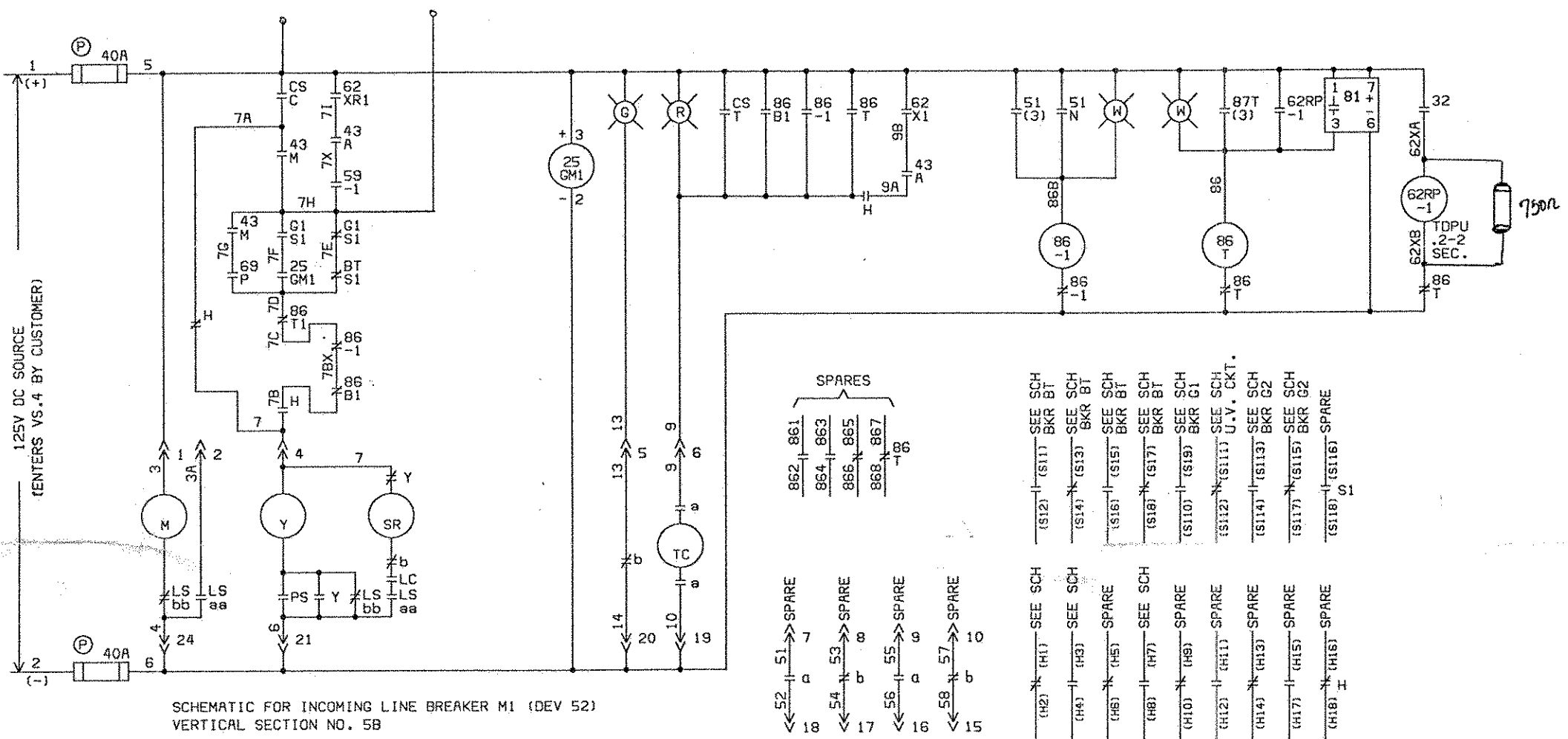
SCHEMATIC FOR FEEDER BREAKER (DEV 52)  
VERTICAL SECTION NO. 2B, 3B

1  
S.O. 71Y5588  
CHANGE  
D.O. BSHR-45014  
71Y5588  
ADDED 27X1 CONTACT ON  
VS. 1A & 1B.  
07/23/92  
D. NGUYEN  
R. FIELDS  
R. MATSKO

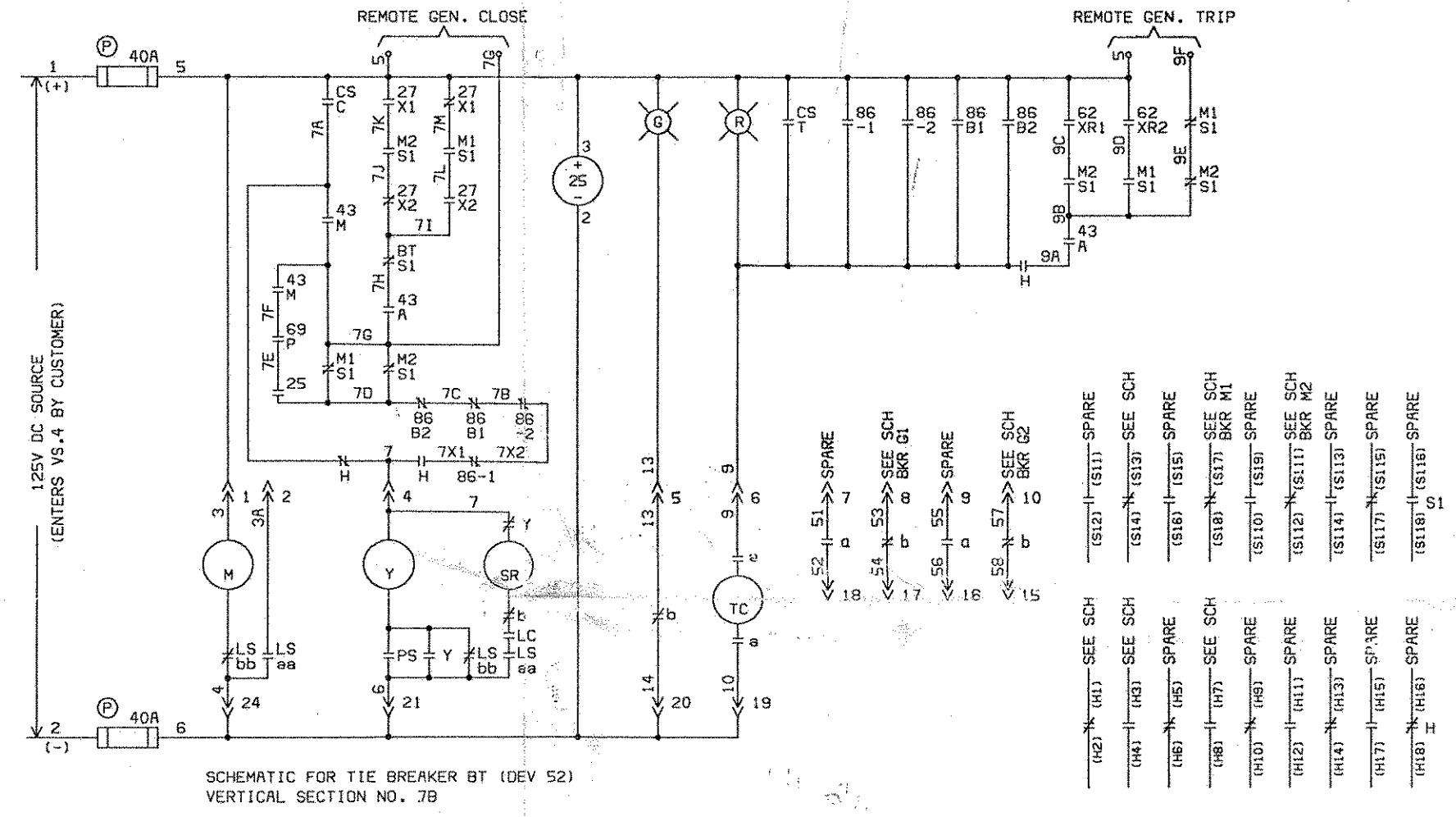
NOTE TO CUSTOMER:  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMO FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
 DUMMY FUSE  
 SHORT CKT. TERM BLK  
 PULL FUSE  
 HEAVY DUTY TERM BLK

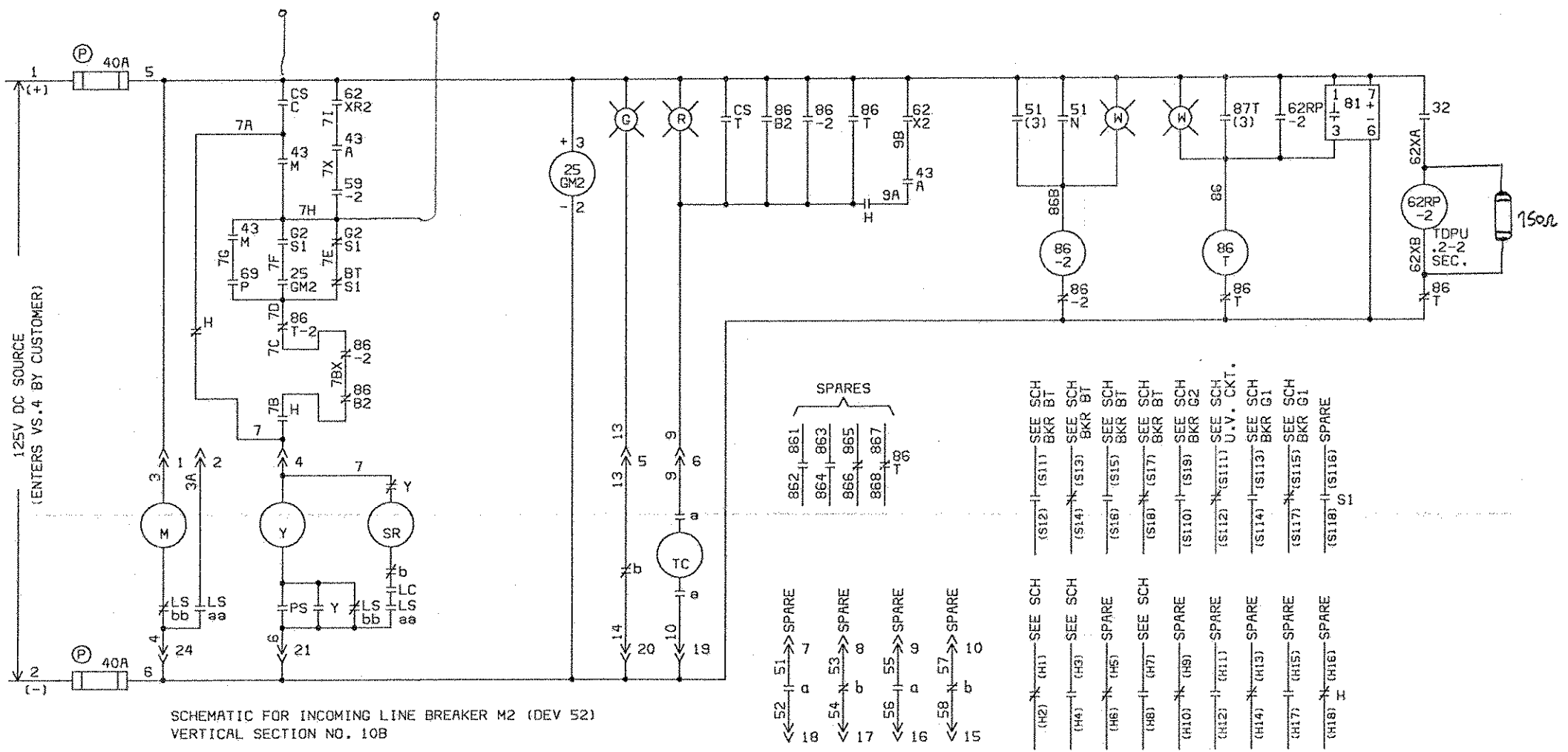
DFTM D. NGUYEN ENO R. FIELDS DATE DATE 6598EMO R. MATSKO	DATE 88/19/92 TITLE SCI MAHONEY PRISON FRACKVILLE, PA. INDOOR VACCLAD-W SWITCHGEAR SCHEMATIC DIAGRAM SIZE FSCN NO SHEET 1 OF 1 DWD NO 6588S01 6062	<b>Westinghouse</b> 50VCP-W250
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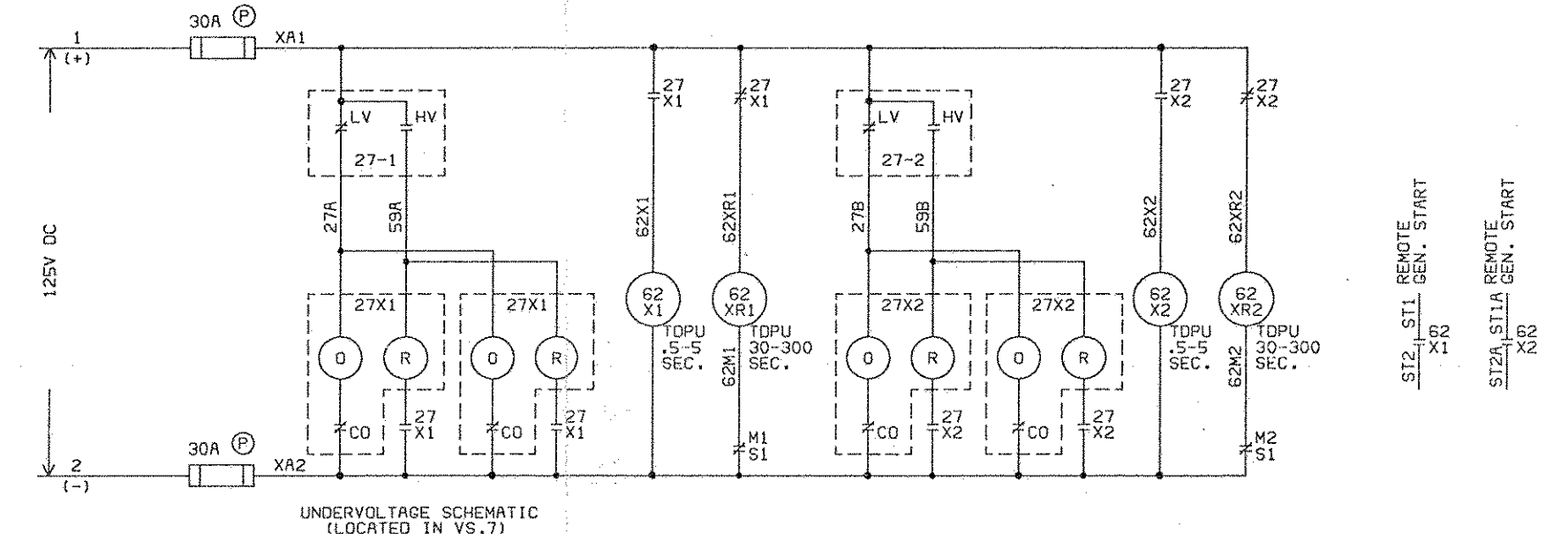
SCHEMATIC FOR INCOMING LINE BREAKER M1 (DEV 52)  
VERTICAL SECTION NO. 5B



SCHEMATIC FOR TIE BREAKER BT (DEV 52)  
VERTICAL SECTION NO. 7B



SCHEMATIC FOR INCOMING LINE BREAKER M2 (DEV 52)  
VERTICAL SECTION NO. 10B



UNDERVOLTAGE SCHEMATIC  
(LOCATED IN VS.7)

- SPARES
- 862, 861
  - 864, 863
  - 866, 865
  - 868, 867
  - 86
- 52-51 SPARE
- 54-53 SPARE
- 56-55 SPARE
- 58-57 SPARE
- (H2) SEE SCH (S11) BKR BT
- (H3) SEE SCH (S13) BKR BT
- (H5) SPARE (S15) BKR BT
- (H7) SEE SCH (S17) BKR BT
- (H8) SPARE (S19) BKR G1
- (H10) SPARE (S111) SEE SCH U.V. CKT.
- (H12) SPARE (S113) SEE SCH BKR G2
- (H14) SPARE (S115) SEE SCH BKR G2
- (H17) SPARE (S116) SPARE
- (H18) SPARE (S116) SPARE

- SPARES
- 862, 861
  - 864, 863
  - 866, 865
  - 868, 867
  - 86
- 52-51 SPARE
- 54-53 SPARE
- 56-55 SPARE
- 58-57 SPARE
- (H2) SEE SCH (S11) BKR BT
- (H3) SEE SCH (S13) BKR BT
- (H5) SPARE (S15) BKR BT
- (H7) SEE SCH (S17) BKR BT
- (H8) SPARE (S19) BKR G2
- (H10) SPARE (S111) SEE SCH U.V. CKT.
- (H12) SPARE (S113) SEE SCH BKR G1
- (H14) SPARE (S115) SEE SCH BKR G1
- (H17) SPARE (S116) SPARE
- (H18) SPARE (S116) SPARE

- SPARES
- (S12) SPARE
  - (S14) SEE SCH
  - (S16) SPARE
  - (S18) SEE SCH BKR M1
  - (S110) SPARE
  - (S112) SEE SCH BKR M2
  - (S114) SPARE
  - (S117) SPARE
  - (S119) SPARE
- (H1) SEE SCH
- (H3) SEE SCH
- (H5) SPARE
- (H7) SEE SCH
- (H9) SPARE
- (H11) SPARE
- (H13) SPARE
- (H15) SPARE
- (H16) SPARE

- REMOTE ST1 GEN. START
- REMOTE ST1A GEN. START

1	S.O. 71Y6588		
2	71Y6588	07/24/92	
3	71Y6588	09/17/92	
4	71Y6588	01/22/93	

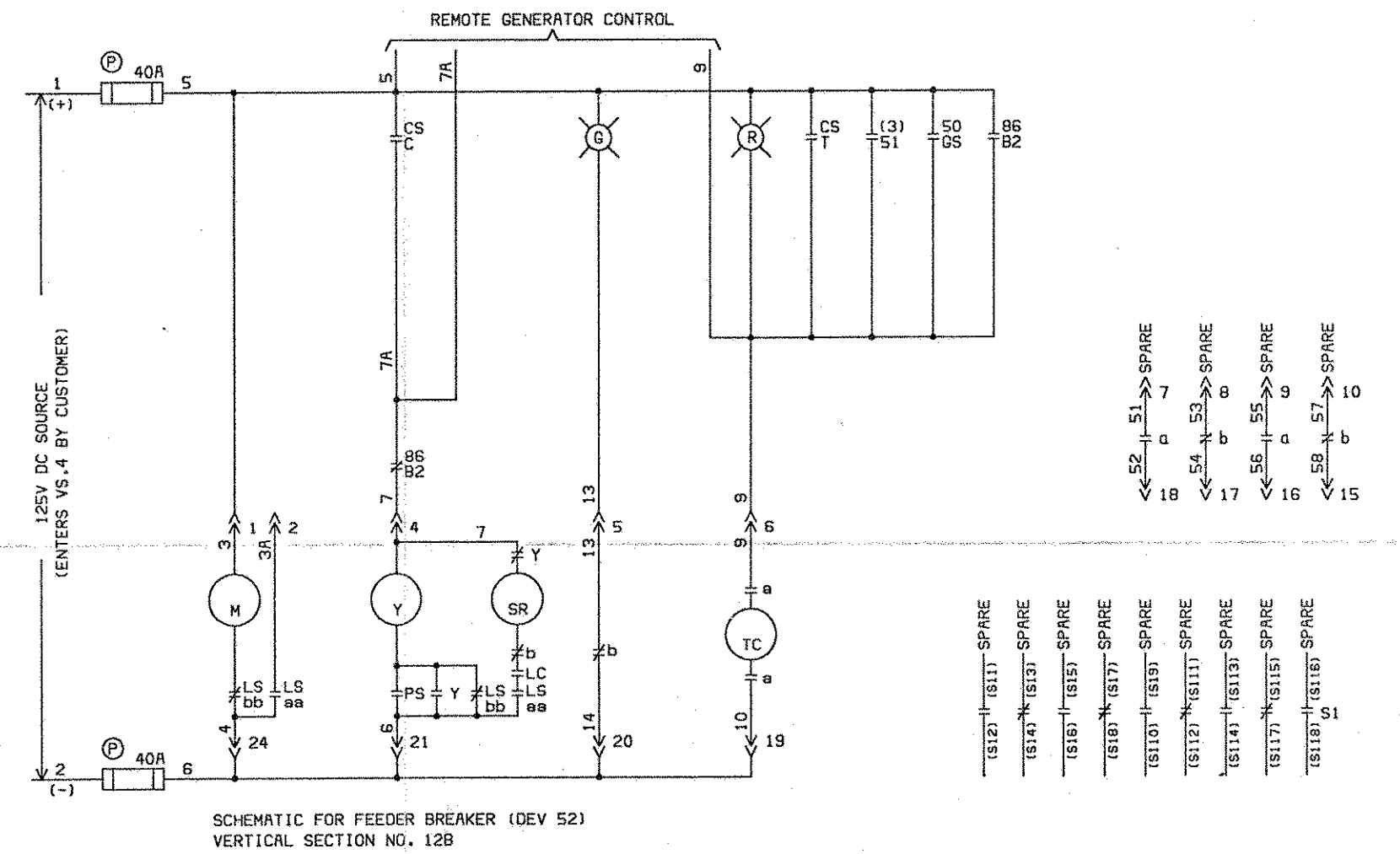
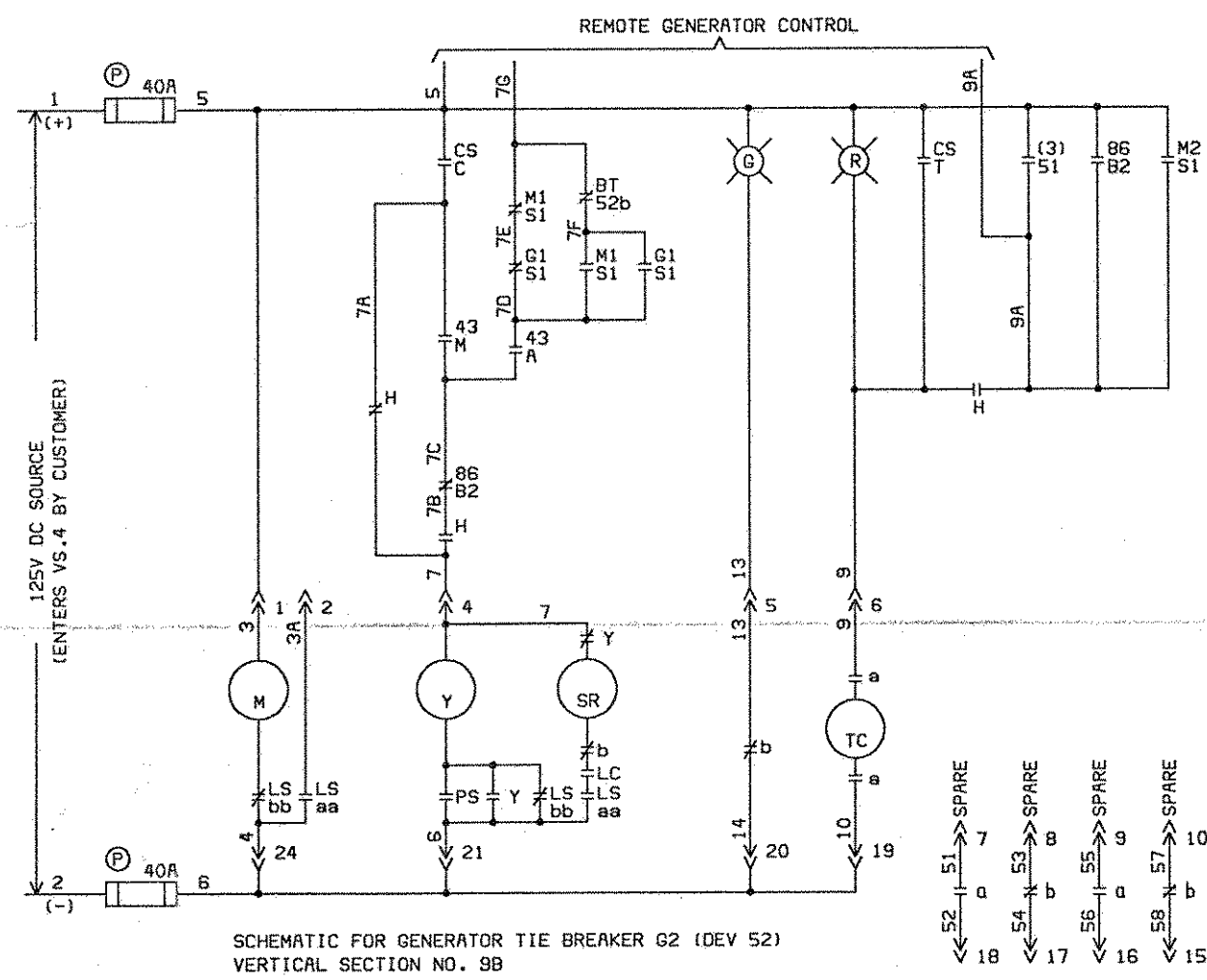
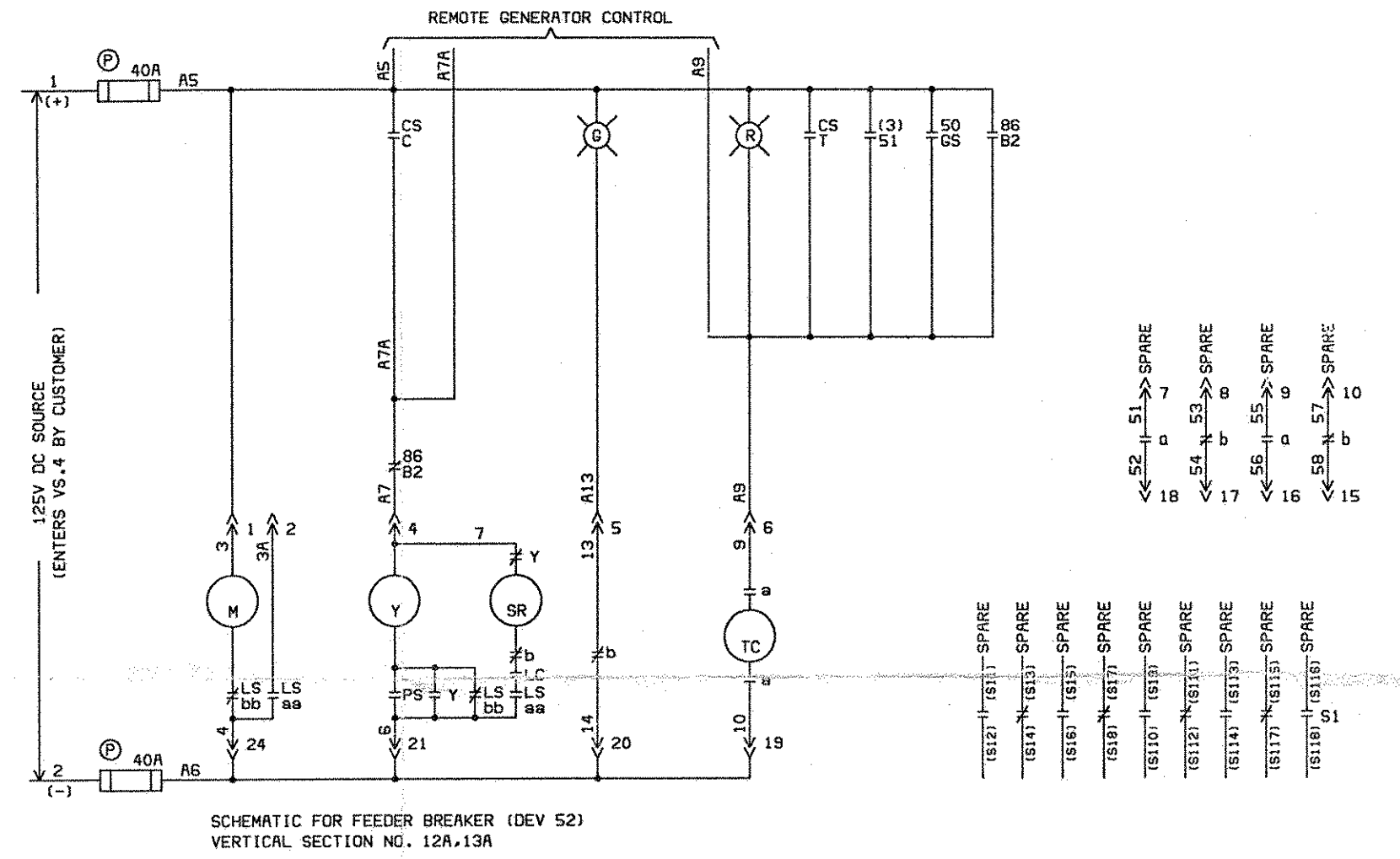
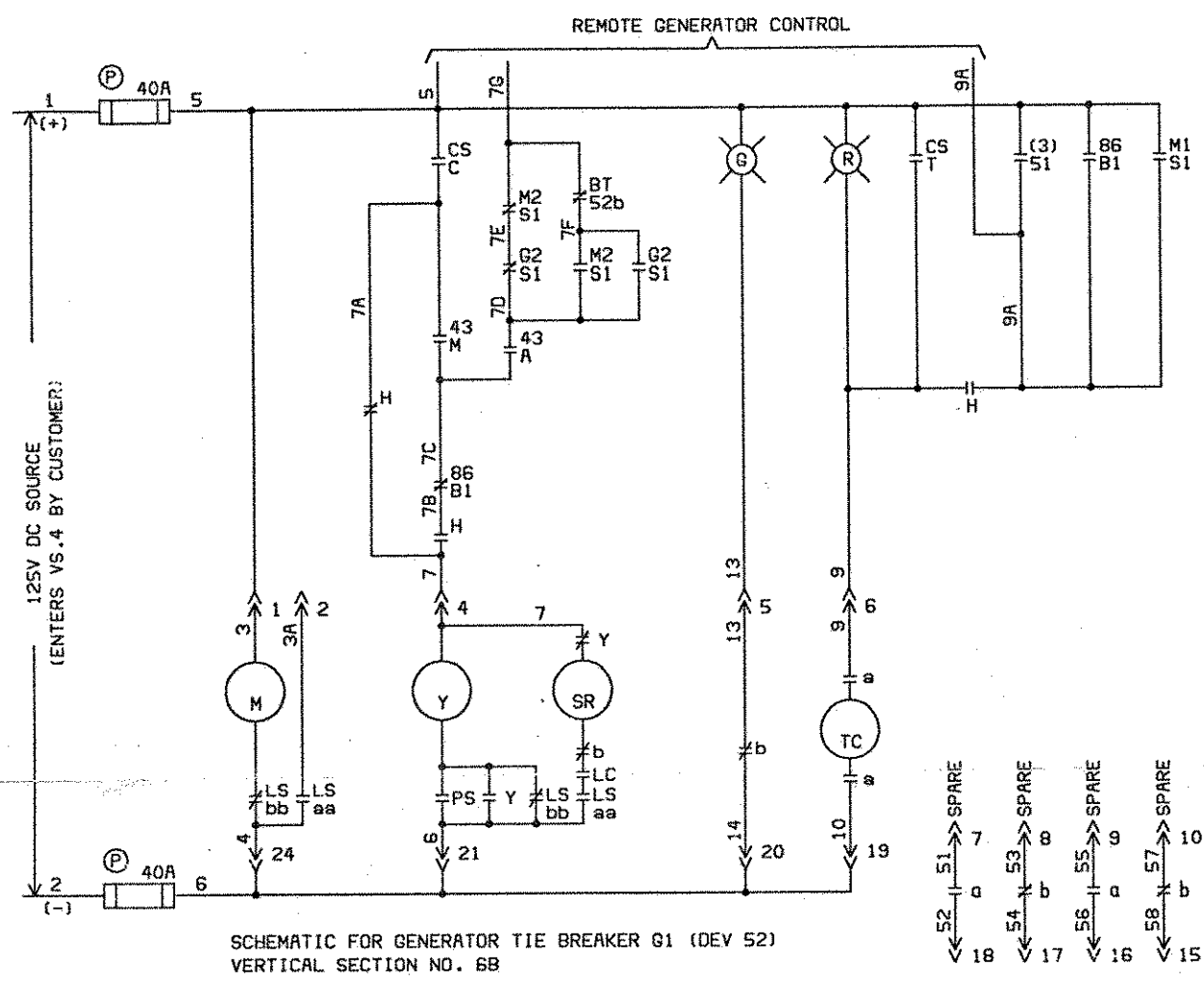
CHARGE: R.FIELDS, R.MATSKO

DELETED DEV. 79, 82-1, 121. ADDED 59 CONT. ON BKR SCHEMES VS 5B & VS #108 PER CUSTOMER.

NOTE TO CUSTOMER: MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD. \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP: DUMMY FUSE, SHORT CKT. TERM BLK, PULL FUSE, HEAVY DUTY TERM BLK

DATE	06/18/92	Westinghouse	
BY	R.FIELDS	SCI MAHONEY PRISON FRACKVILLE, PA.	
TITLE	INDOOR VACUUM-SWITCHGEAR SCHEMATIC DIAGRAM	50VCP-W250	
SIZE	1 OF 1	DWG NO.	6588S02
SHEET	1 OF 1	6062	



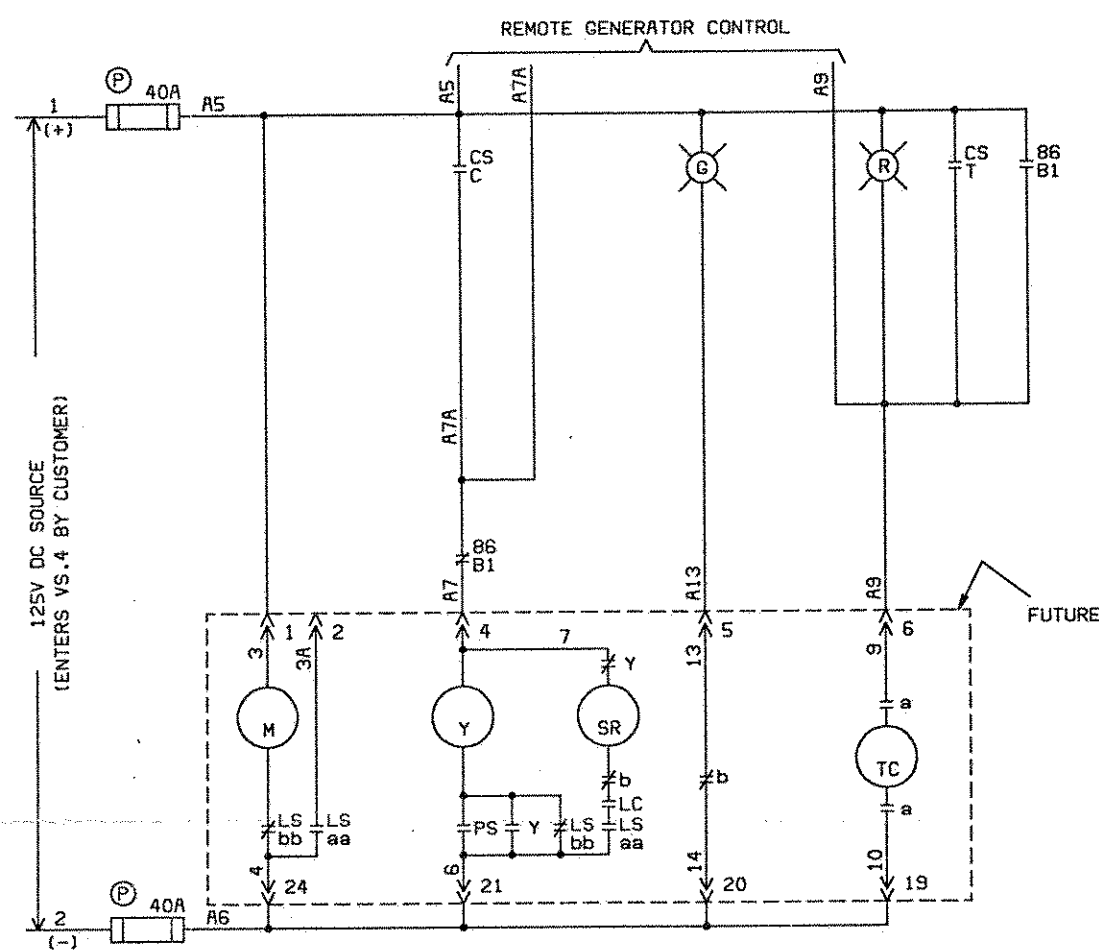
1  
S.O. 71Y6588  
CHANGE  
71Y6588  
MODIFIED BKR SCH. VS. 6B  
AND VS. 9B.  
D. NGUYEN 07/23/92  
R. FIELDS  
R. MATSKO

NOTE TO CUSTOMER:  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAKOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION.  
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS-DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:  
☐ DUMMY FUSE ☐ SHORT CKT. TERM BLK  
Ⓟ PULL FUSE Ⓜ HEAVY DUTY TERM BLK

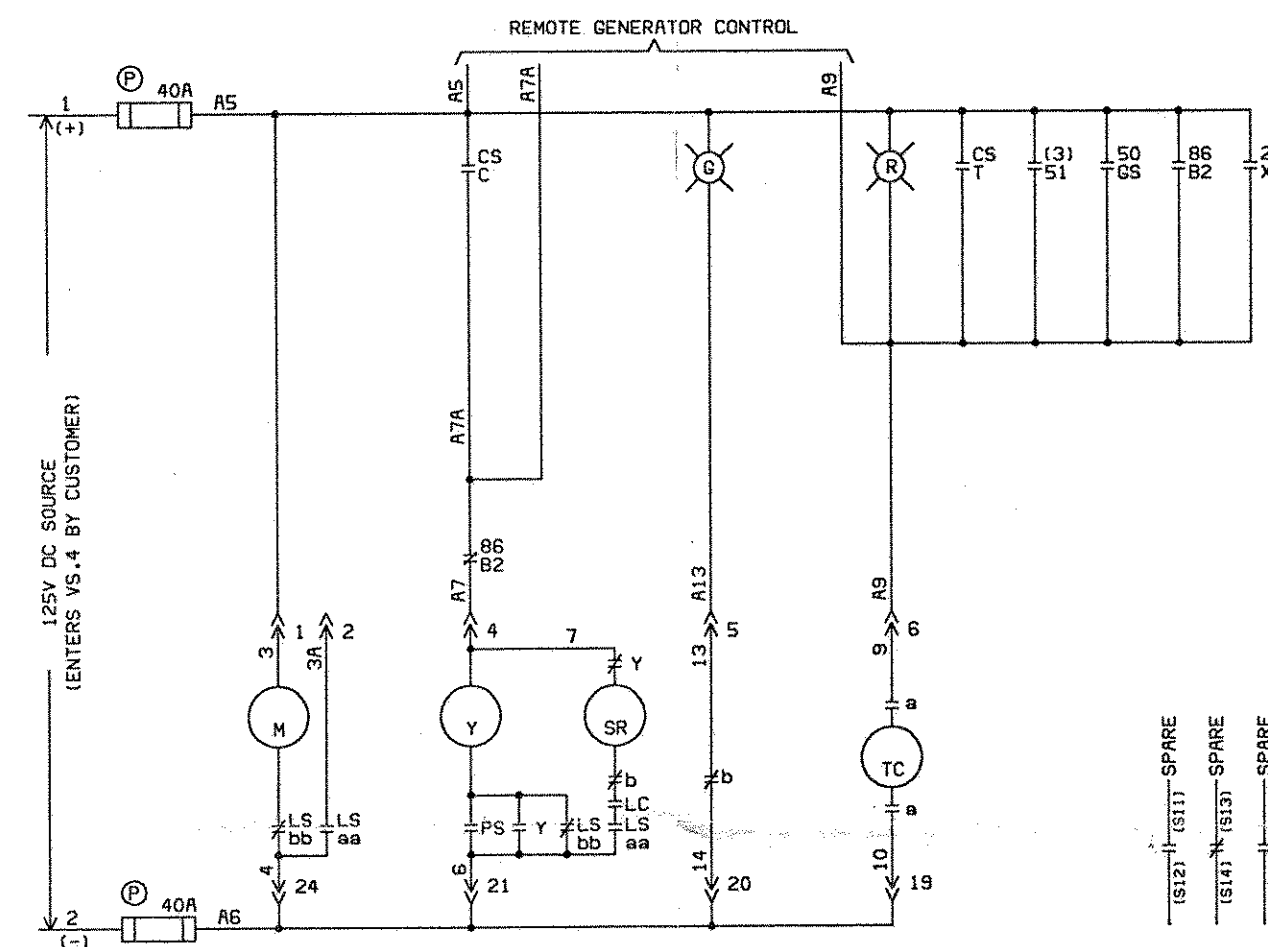
DATE	08/19/92	Westinghouse	
BY	D. NGUYEN	SCI MAHONEY PRISON FRACKVILLE, PA.	
DATE		INDOOR VACCLAD-W SWITCHGEAR SCHEMATIC DIAGRAM	
BY	R. FIELDS	SIZE	FSCA NO.
DATE		DWG NO.	6588S03
BY	R. MATSKO	SHEET	1 OF 1





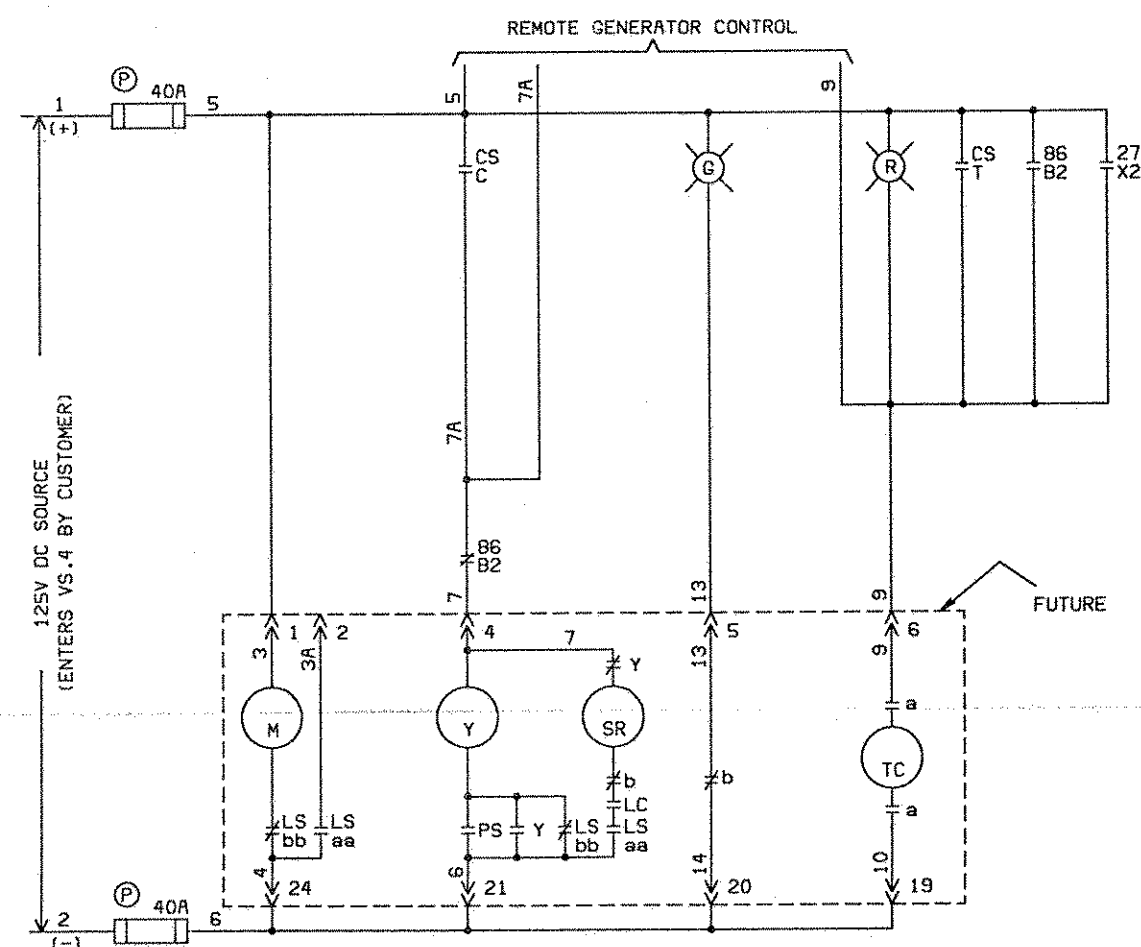
SCHEMATIC FOR FUTURE BREAKER (DEV 52)  
VERTICAL SECTION NO. 2A

- (S12) SPARE
- (S14) SPARE
- (S15) SPARE
- (S17) SPARE
- (S19) SPARE
- (S111) SPARE
- (S113) SPARE
- (S115) SPARE
- (S117) SPARE
- (S118) SPARE



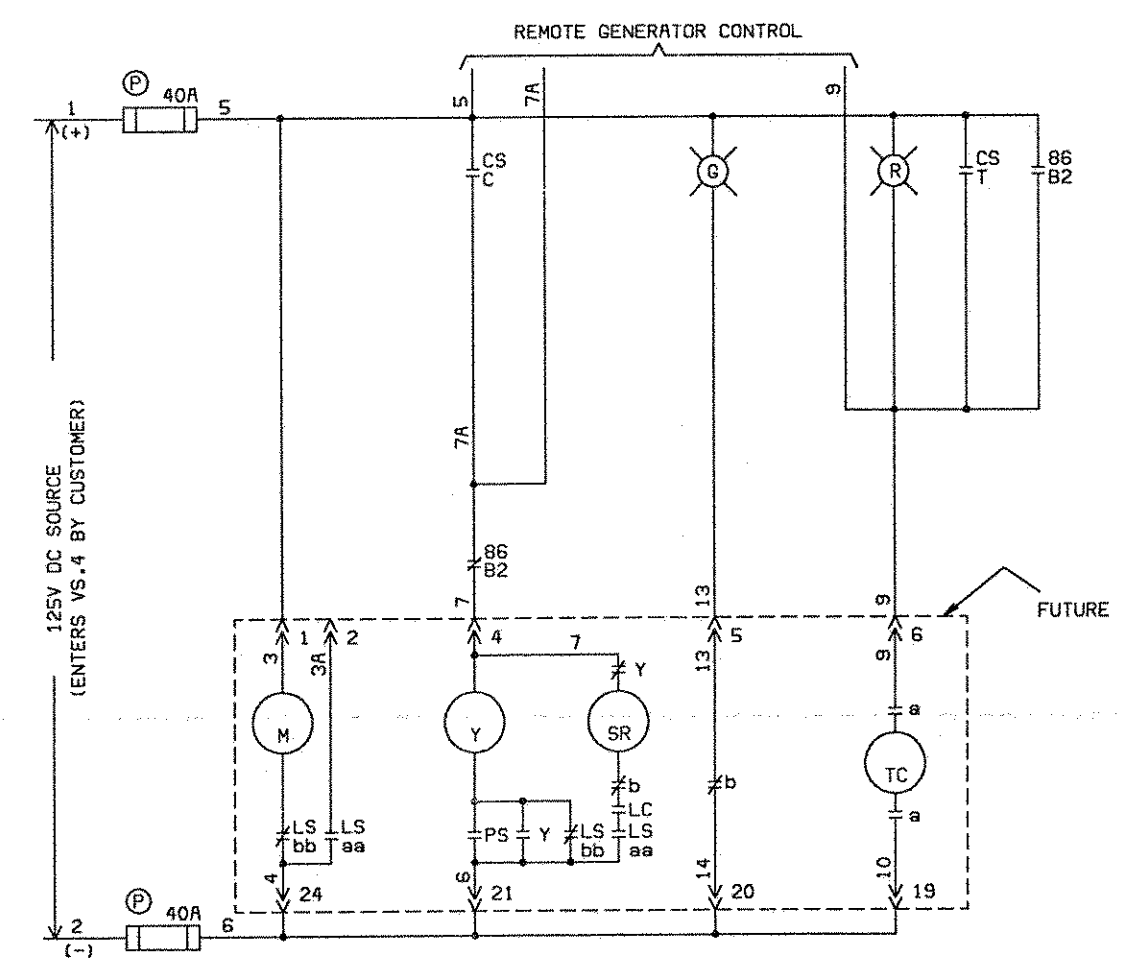
SCHEMATIC FOR FEEDER BREAKER (DEV 52)  
VERTICAL SECTION NO. 14A

- (S12) SPARE
- (S14) SPARE
- (S15) SPARE
- (S17) SPARE
- (S19) SPARE
- (S111) SPARE
- (S113) SPARE
- (S115) SPARE
- (S117) SPARE
- (S118) SPARE



SCHEMATIC FOR FUTURE BREAKER (DEV 52)  
VERTICAL SECTION NO. 14B

- (S12) SPARE
- (S14) SPARE
- (S15) SPARE
- (S17) SPARE
- (S19) SPARE
- (S111) SPARE
- (S113) SPARE
- (S115) SPARE
- (S117) SPARE
- (S118) SPARE



SCHEMATIC FOR FUTURE BREAKER (DEV 52)  
VERTICAL SECTION NO. 13B

- (S12) SPARE
- (S14) SPARE
- (S15) SPARE
- (S17) SPARE
- (S19) SPARE
- (S111) SPARE
- (S113) SPARE
- (S115) SPARE
- (S117) SPARE
- (S118) SPARE

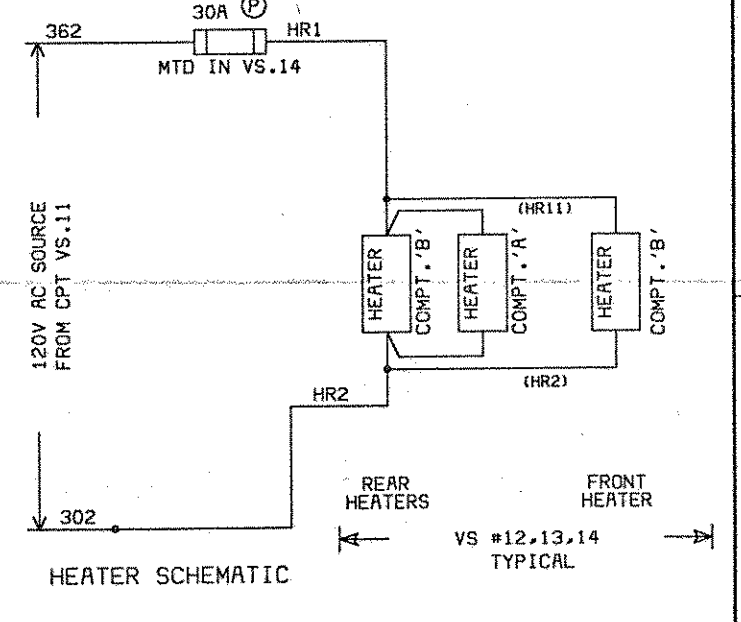
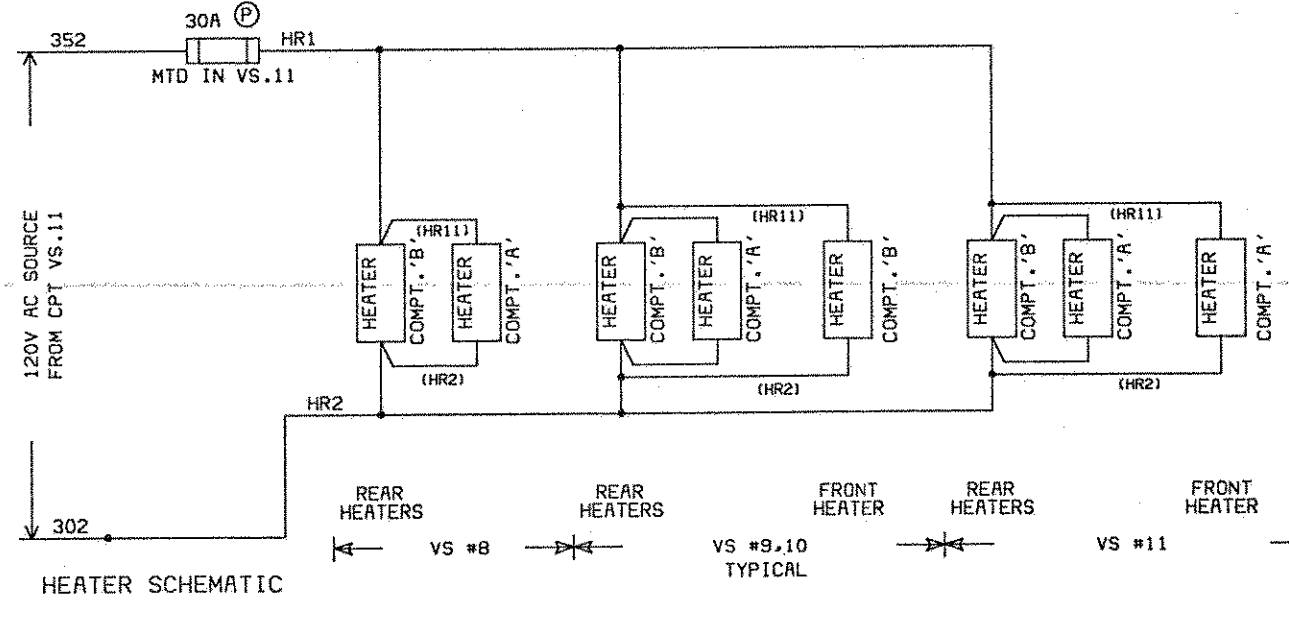
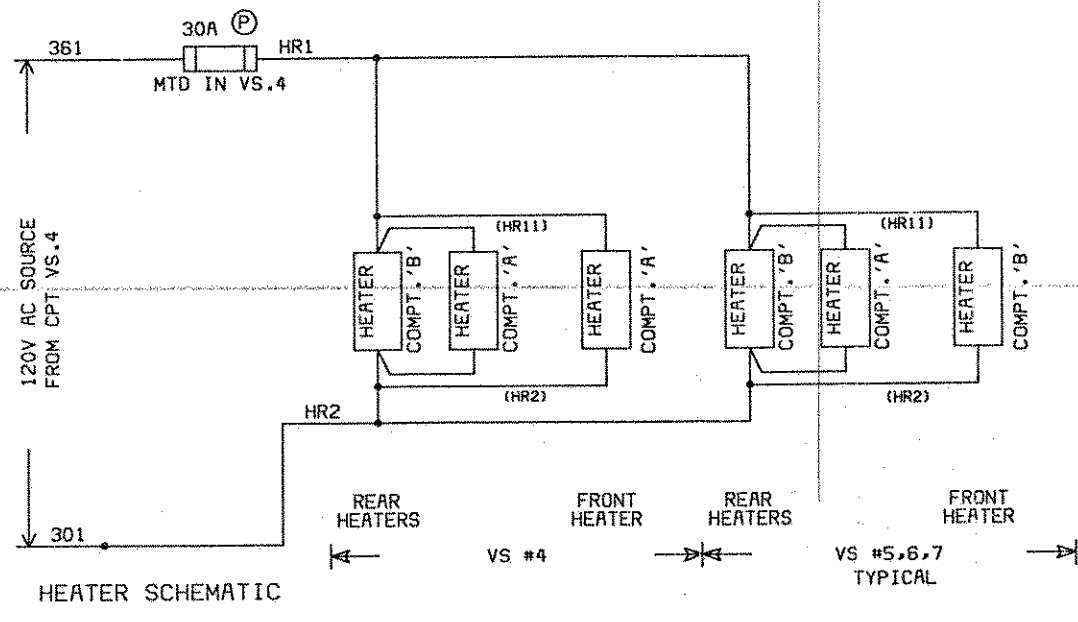
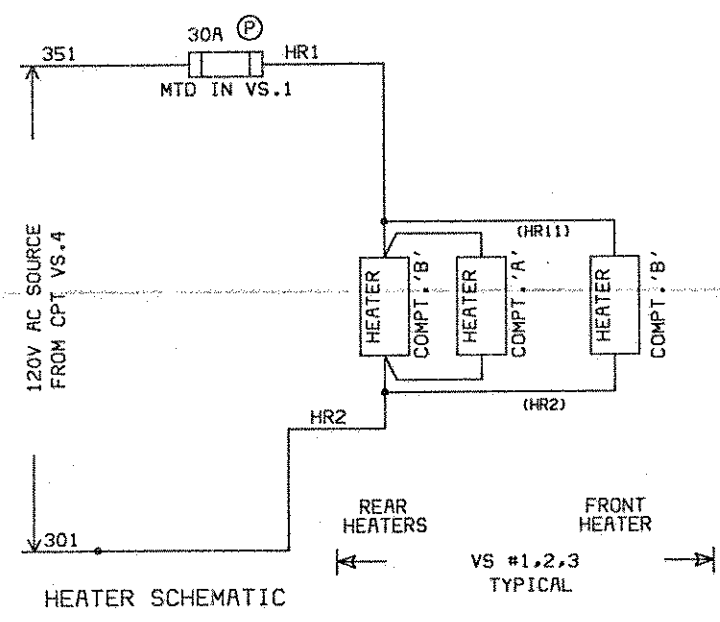
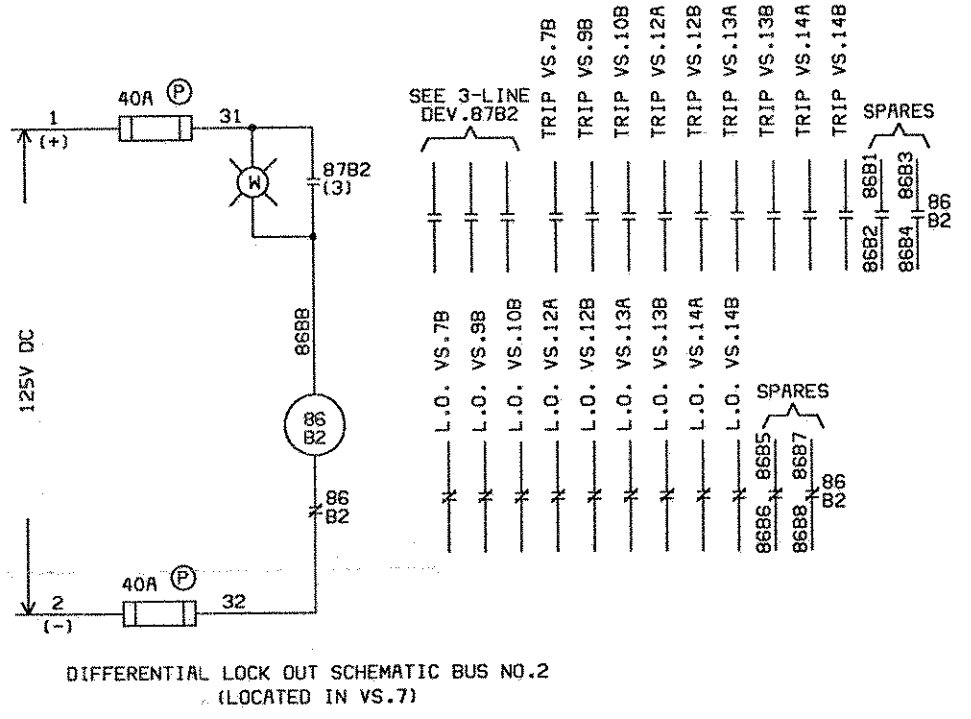
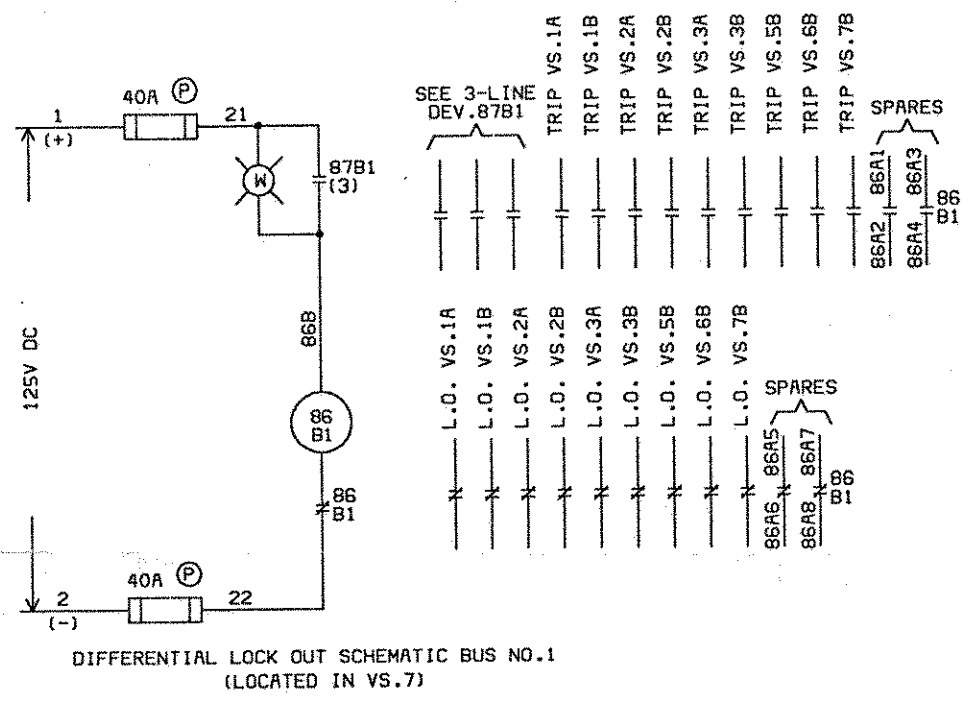
1  
S.O. 71V5588  
C.D. BSHR-45014  
CHANGE

**NOTE TO CUSTOMER:**  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
 DUMMY FUSE   
 SHORT CKT. TERM BLK  
 PULL FUSE   
 HEAVY DUTY TERM BLK

DATE D. HOUYEN 8/23/92	DATE	<b>Westinghouse</b>	
ENO R. FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
DESIGNED R. MATSKO	DATE	INDOOR VACUUM SWITCHGEAR SCHEMATIC DIAGRAM	
SIZE D	PSCH NO	DWG NO	6588504
SHEET	1 OF 1	REV	6062





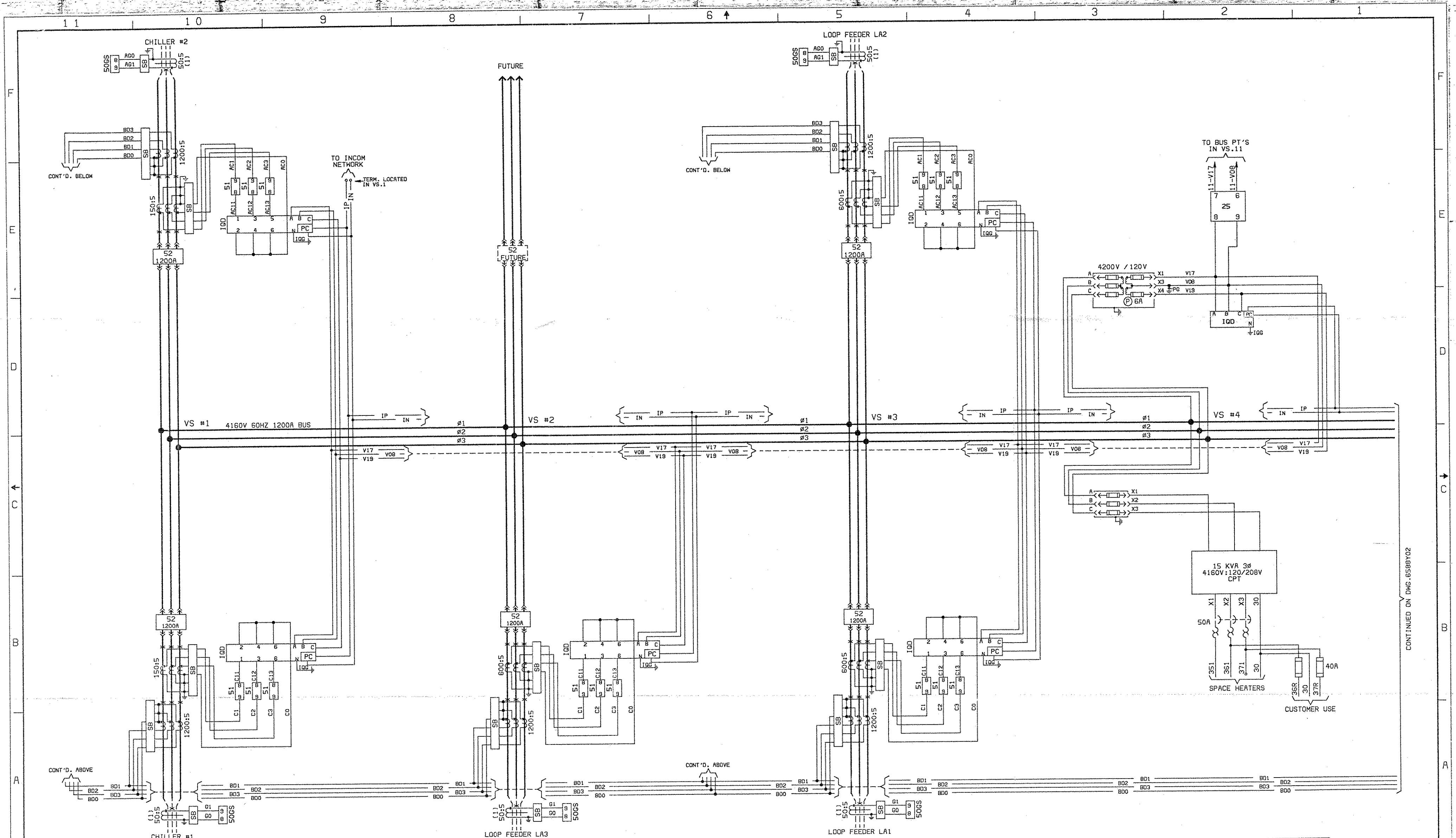
1  
S.O. 71V6588  
G.O. BSHR-45014  
CHANGE  
71V6588  
MOVED BRK SCH TO DWG.  
6588504  
D. NGUYEN 07/23/92  
R. FIELDS  
R. MATSKO

NOTE TO CUSTOMER:  
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK-LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION.  
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHDP:  

 DUMMY FUSE    SHORT CKT. TERM BLK  
 PULL FUSE    HEAVY DUTY TERM BLK

DFTH D. NGUYEN	DATE 08/22/92	Westinghouse	
ENG R. FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
INDOOR VACCLAD-W SWITCHGEAR		50VCP-K250	
SCHEMATIC DIAGRAM		SIZE	
SHEET 1 OF 1		Dwg No 6588S05	
R. MATSKO		6062	



1	S.D. 71Y6588 G.O. BSHR-45014 CHANGE
2	71Y6588 C.T.'S RATIO'S COMPLETED PER C.A.A. & OCT. 25 HAS NOT SHOWN.
3	07/23/92 D. NGUYEN R. FIELDS R. MATSKO

3	71Y6588 MINOR WIRE WIRE CHANGE.
	09/17/92 WILLACE R. FIELDS R. MATSKO

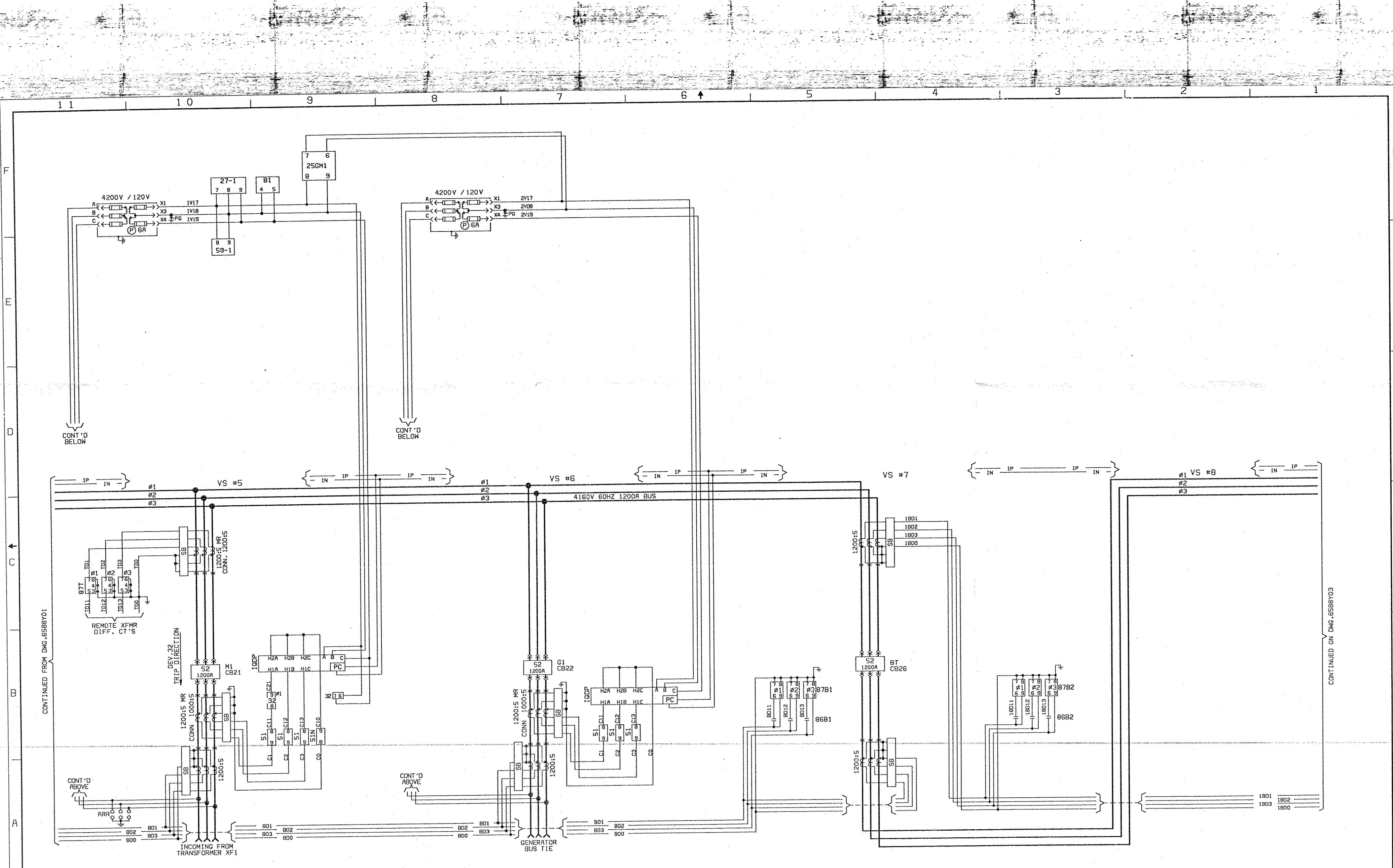
**NOTE TO CUSTOMER:**  
 MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK-LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMO FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**

DUMMY FUSE   
 SHORT CKT. TERM BLK  
 PULL FUSE   
 HEAVY DUTY TERM BLK

DFTN <b>D. NGUYEN</b>	DATE <b>88/18/92</b>	<b>Westinghouse</b>	
ENG <b>R. FIELDS</b>	DATE	TITLE <b>SCI MAHONEY PRISON FRACKVILLE, PA.</b>	
6588BEMD		INDOOR VACUUM SWITCHGEAR THREE LINE DIAGRAM 50VCP-W250	
R. MATSKO	SHEET <b>1 OF 1</b>	DWG NO <b>6588Y01</b>	6062

CONTINUED ON DWG. 6588Y02



CONTINUED FROM DWG. 6588Y01

CONTINUED ON DWG. 6588Y03

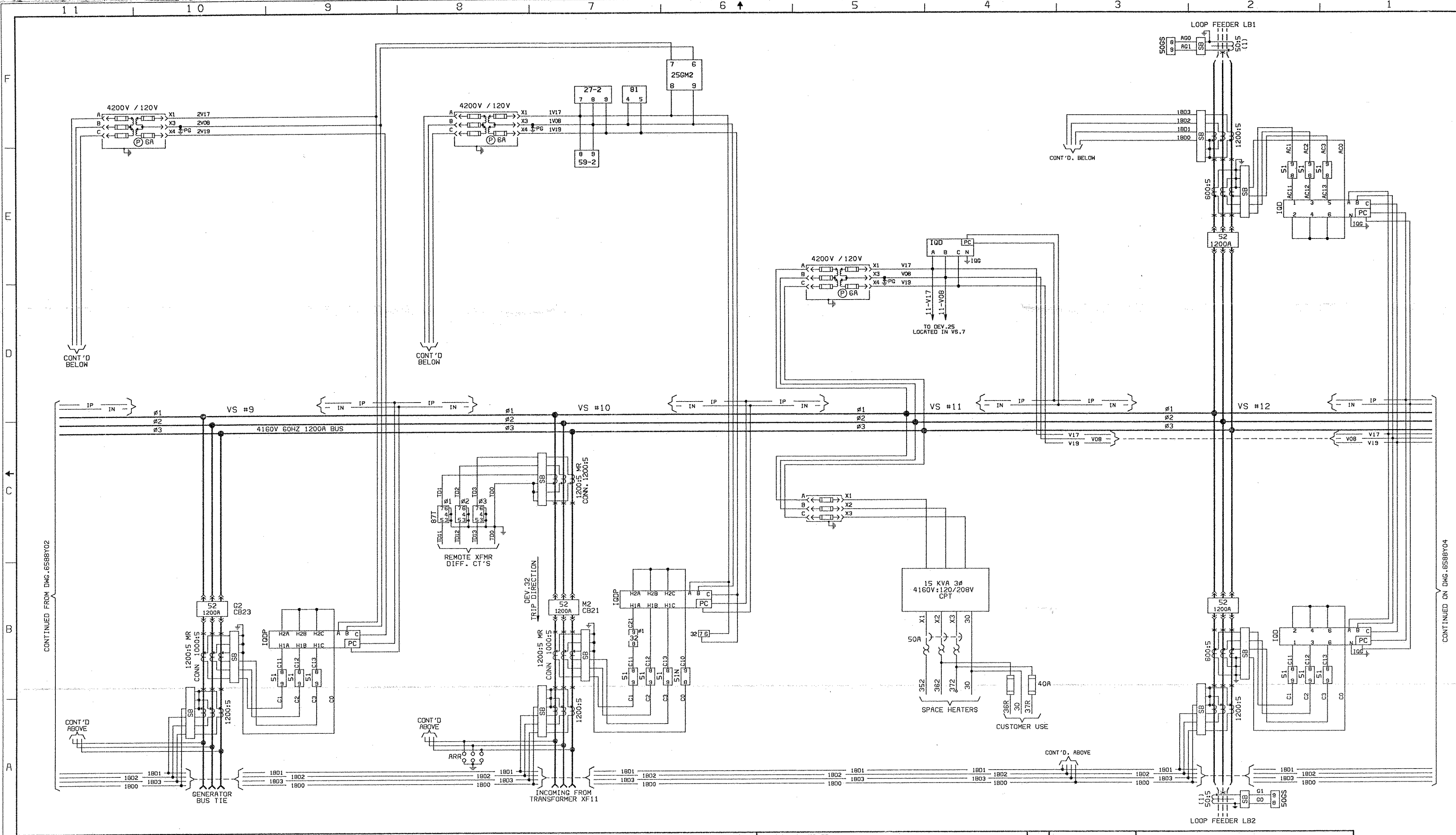
1	2	3
S.D. 71Y6588 C.A. 4 ADDED DEV. 25.	71Y6588 CT'S RATIOS MODIFIED BY C.A. & ADDED DEV. 25.	71Y6588 REMOVED 55 REA. ALARM.
D. NGUYEN R. FIELDS R. MATSKO	07/23/92	01/22/93

**NOTE TO CUSTOMER:**  
 MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRANDOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE END FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**  
 [Symbol] DUMMY FUSE [Symbol] SHORT CKT. TERM BLK  
 [Symbol] - PULL FUSE [Symbol] - HEAVY DUTY TERM BLK

6588END	DATE 08/18/92	Westinghouse	
ENG R. FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
R. MATSKO	DATE	INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250 THREE LINE DIAGRAM	
	SHEET 1 OF 1	DWG NO 6588Y02	REV 6062





1	6.0.71Y6588 CHANGE 6.0.BSHR-45014
2	7.1Y6588 D.T.S. R.F. FIELDS MODIFIED CIRCUIT BREAKER TRIP & CHANGED 51/50 TO 51/5. D. NGUYEN 07/23/92 R. FIELDS
3	7.1Y6588 REMOVE 5B REM. ALARM. D. NGUYEN 01/22/93 R. MATSKO

**NOTE TO CUSTOMER:**  
 MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**

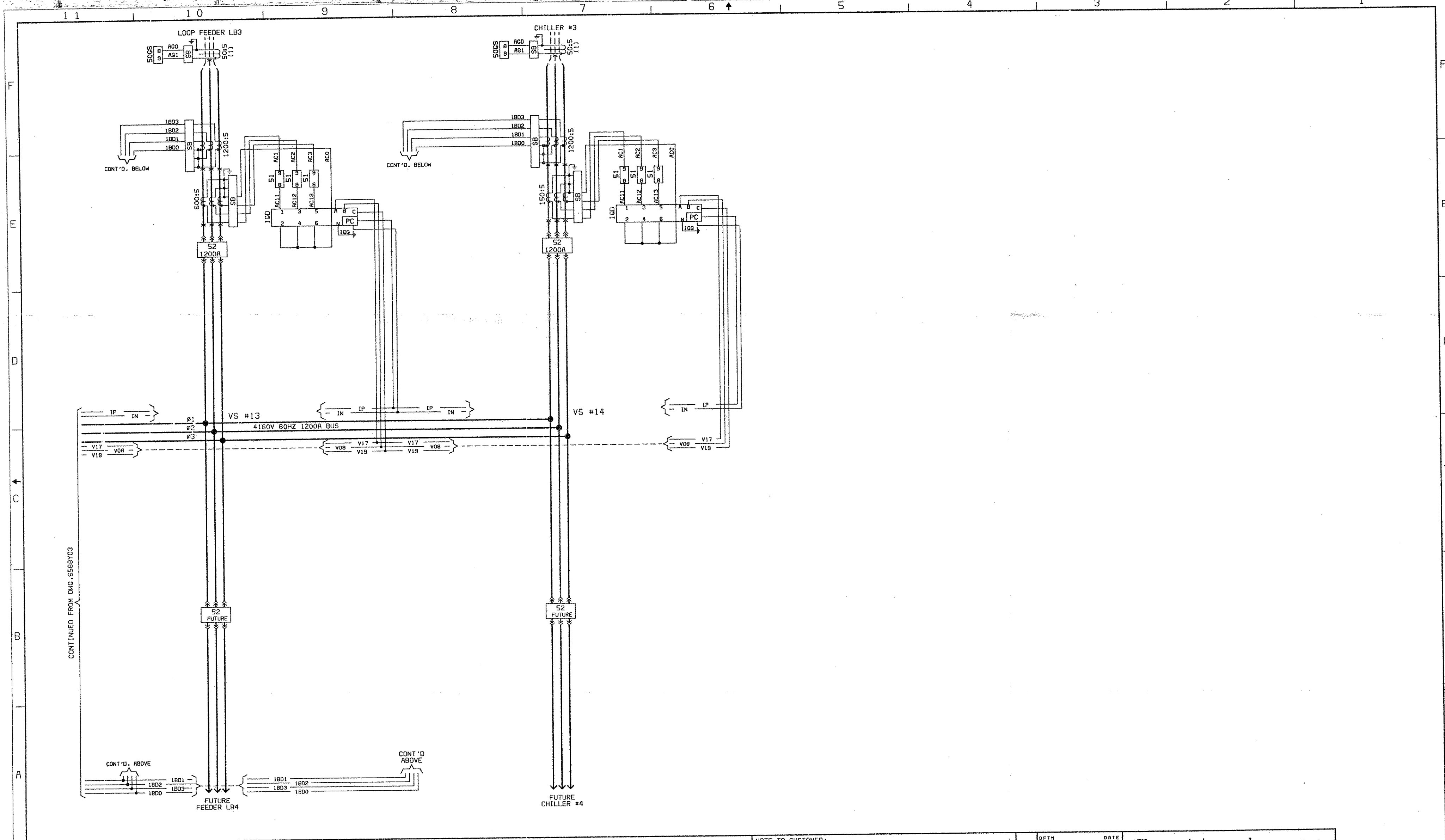
DUMMY FUSE     SHORT CKT. TERM BLK  
 - PULL FUSE     - HEAVY DUTY TERM BLK

6588EMD	DATE 08/18/92	<b>Westinghouse</b>	
ENG R. FIELDS	DATE	TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
6588EMD	DATE	INDOOR VACUUM SWITCHGEAR THREE LINE DIAGRAM 50VCP-W250	
6588EMD	DATE	SIZE FSCR NO	DWG NO 6588Y03
6588EMD	DATE	SHEET 1 OF 1	6062

CONTINUED FROM DWG. 6588Y02

CONTINUED ON DWG. 6588Y04





CONTINUED FROM DWG. 6568Y03

1	2
S.D. 71Y6588	71Y6588
G.D. BSHR-45014	CHANGE
	CT'S RATIOS MODIFIED.
	07/23/92
	D. NGUYEN
	R. FIELDS
	R. MATSKO

**NOTE TO CUSTOMER:**  
 MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT, OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS OF THE PHASE ROTATION. SEE EMD FOR PHASE ROTATION. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

**NOTE TO SHOP:**

	DUMMY FUSE		SHORT CKT. TERM BLK
	PULL FUSE		HEAVY DUTY TERM BLK

DFTM D. NGUYEN		DATE 08/18/92		<b>Westinghouse</b>	
ENG R. FIELDS		DATE		TITLE SCI MAHONEY PRISON FRACKVILLE, PA.	
R. MATSKO		SHEET 1 OF 1		DWO NO 6588Y043	
				6062	



Drawing Description	Drawing Number	# of Sheets	Rev #	*	X
ELECTRICAL MASTER DRAWING	6588EMD	1	03	X	X
THREE LINE DIAGRAM	6588Y01	1	03	X	X
THREE LINE DIAGRAM	6588Y02	1	02	X	X
THREE LINE DIAGRAM	6588Y03	1	02	X	X
THREE LINE DIAGRAM	6588Y04	1	02	X	X
SCHEMATIC DIAGRAM	6588S01	1	02	X	X
SCHEMATIC DIAGRAM	6588S02	1	03	X	X
SCHEMATIC DIAGRAM	6588S03	1	02	X	X
SCHEMATIC DIAGRAM	6588S04	1	01	X	X
SCHEMATIC DIAGRAM	6588S05	1	02	X	X
CONNECTION DIAGRAM VERT. SECT. #1	6588H01	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #2	6588H02	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #3	6588H03	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #4	6588H04	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #5	6588H05	2	02	X	X
CONNECTION DIAGRAM VERT. SECT. #6	6588H06	2	02	X	X
CONNECTION DIAGRAM VERT. SECT. #7	6588H07	2	02	X	X
CONNECTION DIAGRAM VERT. SECT. #8	6588H08	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #9	6588H09	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #10	6588H10	2	02	X	X
CONNECTION DIAGRAM VERT. SECT. #11	6588H11	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #12	6588H12	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #13	6588H13	2	01	X	X
CONNECTION DIAGRAM VERT. SECT. #14	6588H14	2	02	X	X

\* - Denotes Drawings Added or Revised Since Previous Submittal

X - Denotes Drawings Included in This Transmittal

Master Drawing List 6588MDL

Rev. 03

# WESTINGHOUSE ELECTRIC CORPORATION

## CERTIFIED TEST REPORT

PURCHASER SCI MAHONEY PRISON FRACKVILLE, PA.

TYPE OF APPARATUS INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250

WESTINGHOUSE TEST SPEC.NO. T-347888I G.O. B SHR-45014 S.O. 71Y6588

ELECTRICAL DIAGRAM REFERENCE : TITLE: ELECTRICAL MASTER DRAWING

DRAWING NO.: 6588EMD

FACTORY TESTS WERE MADE IN ACCORDANCE WITH NEMA AND ANSI REQUIREMENTS TO VERIFY THAT FUNCTIONING OF THE SWITCHGEAR WAS IN ACCORDANCE WITH THE ELECTRICAL DIAGRAMS. WHERE APPLICABLE TO THE SPECIFIC EQUIPMENT ON THIS ORDER, THE FOLLOWING TESTS WERE INCLUDED:

- GENERAL
1. ACTUAL OPERATION PERFORMED WHEREVER POSSIBLE, OTHERWISE, INSPECTION OR CONTINUITY CHECKS MADE.
  2. COMPONENT DEVICES OPERATED IN CIRCUITS AS SHOWN ON DIAGRAMS.
  3. CONTROL AND PRIMARY CIRCUITS GIVEN DIELECTRIC TESTS AS DESCRIBED IN SECTION C OF THIS REPORT.

### DETAILED TESTS

- A. CONTROL CIRCUITS AND DEVICES
1. CONTROL BUS ENERGIZED AT 80% RATED D-C OR 85% RATED A-C CONTROL VOLTAGE.
  2. CONTROL DEVICES OPERATED AS SHOWN ON DIAGRAMS.
  3. VERIFICATION OF ALL REMOTE CIRCUITS WHICH WERE NOT INCLUDED IN OPERATIONAL TEST.
- B. INSTRUMENTS, METERS, PROTECTIVE RELAYS AND ASSOCIATED EQUIPMENT
1. UNLESS OTHERWISE REPORTED, THESE DEVICES FUNCTIONALLY TESTED BY ENERGIZING CURRENT AND POTENTIAL CIRCUITS TO RATED VALUES.
  2. INSTRUMENTS OPERATED AND EXPECTED READINGS VERIFIED.
  3. METERS CHECKED FOR PROPER DIRECTION OF DISC ROTATION AND CURRENT CIRCUITS FOR PHASING.
  4. PROTECTIVE RELAYS OPERATED FOR FUNCTIONAL CHECK IN ACCORDANCE WITH RATING AND APPLICATION. INSTANTANEOUS TRIPS MANUALLY OPERATED TO VERIFY CORRECT FUNCTIONING OF OPERATION INDICATOR AND ASSOCIATED CIRCUITS.
  5. RELAYS SET ON MAXIMUM AND CHECKED FOR OPERATION AND FRICTION.
- C. DIELECTRIC TESTS
1. CONTROL CIRCUITS AND ASSOCIATED WIRING RECEIVED INSULATION TEST OF 1500 VOLTS, 60 CYCLES, FOR ONE MINUTE, EXCEPT WHERE EQUIPMENT MANUFACTURER SPECIFICATIONS DO NOT PERMIT.
  2. PRIMARY CIRCUITS (EXCEPT POTENTIAL TRANSFORMERS) TESTED PHASE TO PHASE AND PHASE TO GROUND WITH 60 CYCLE VOLTAGE APPLIED FOR ONE MINUTE AS FOLLOWS:

VOLTAGE CLASS 5 KV AT DIELECTRIC LEVEL OF 19 KV

REMARKS :

THIS CERTIFIES THAT THE FOREGOING IS A TRUE REPORT BASED ON FACTORY TESTS MADE AT THE GREENWOOD, SOUTH CAROLINA PLANT OF WESTINGHOUSE ELECTRIC CORPORATION.

SIGNED

ENGINEER

DATE

9-17-92



## REVISION NOTES

REV NO.	DWG NUMBER	REVISION	DFTR. DATE	ENGR. DATE
1	ALL	CUSTOMER APPROVAL ORIGINAL DISTRIBUTION PER SHOP ORDER MMD	<i>J. Fields</i> 6/24/92 DAIGREPORT 7/1/92	R. FIELDS 6/30/92
2	ALL	FOR 1/24/92	DAIGREPORT 8-10-92	R. FIELDS 8-7-92
3	6585M2L	AS-BUILT CHANGES	7-17-92	
MASTER MECHANICAL REVISION LIST		SHEET 1 OF 1	DWG. NO.	6588 MRV

B/M Number: S6588WG

B/M Rev: 03 Approved

GENERAL DESCRIPTION

## L. .ssy/Item Notes

... S6588WG

001 CUSTOMER. SCI MAHONEY PRISON

002 . INSTALLATION- FRACKVILLE, PA

003 . P.O.- D22491

004 WESTINGHOUSE G.O.-BSHR-45014-MVA

005 . SHOP ORDER-71Y6588

006 SYSTEM LINE TO LINE VOLTAGE 4160 V

007 . BASIC IMPULSE LEVEL 60 KV

008 . GROUND SOLIDLY GROUNDED

009 . NUMBER OF PHASES THREE

010 . FREQUENCY 60 HZ

011 . PHASE SEQUENCE 123

012 ENCLOSURE INDOOR

013 . ALL FRONT PANELS - PADLOCKED

014 . REAR HINGED DOORS, BOLTED

015 . ALL REAR DOORS PADLOCKED

016 FINISH ENCLOSURE EXT. - STD ANSI 61

017 . VERT. SECT. INT. - STD ANSI 61

018 BUS 1200A CU SILVER PLATED

019 . JOINT HDW - STD HT STL (YELLOW ZINC CR)

020 . JOINT INSULATION IS STANDARD

021 . SUPPORT INSULATION IS GLASS POLYESTER

022 . NEUTRAL IS BARE

GROUND IS .25 X 2 COPPER

023 . CKT BREAKER TYPE 50 VCP-W 250

025 . S.C. CURRENT @ MAX KV = 29 KA

026 . C. & L. CURRENT = 58 KA

027 . INT. TIME = 5 CYCLES

028 . S.E. MOTOR = 125 VDC

029 . S.E. CLOSE = 125 VDC

030 . TRIP NO. 1 = 125 VDC

031 LV CKT CONT PWR SOURCE ENTERS TOP VS #4

032 . HEATER PWR SOURCE LOCAL

033 . HEATERS APPLIED 125 V

034 WIRE TYPE = STD - SIS

035 . SIZE (NON CURR CKTS) = STD # 14 MIN

036 . SIZE (CURR CKTS) = STD # 14 MIN

037 . TERMINALS = STD - INS LOCK IN FORK

038 . WIRE MARKERS ADHESIVE WRAP-ON

039 . TERMINAL BLOCKS (GENERAL) = STD - 50A, 600V

040 . (CTS) = STD - 600V, S.C.

041 STANDARDS ANSI, IEEE, NEMA

042

043 MISCELLANEOUS REQUIREMENTS FOLLOW -

044 . CUST. INSPECTION

045 . PROD TEST REPORTS

046 . SPECIAL DRAWING FORMAT

047 . HEATERS WIRED FOR STORAGE

B/M Number: S6588WG

B/M Rev: 03 Approved

GENERAL DESCRIPTION

<u>Revision Notes/Signatures</u>	<u>Revision Date</u>
02 S.O. 71Y6588	06/15/92
.. Draftsman      Engineer      Mech. Engr.      Supervisor HULL              FIELDS	
03 CHANGED NOTE ON LN# 031.	08/07/92
.. Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	

B/M Number: S6588WH

B/M Rev: 08 Approved

HINGED PANEL EQUIPMENT

S	Item	Part Name	Item Description	Part No.	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G90	G98	TOT
	1A	GRP "G99"	TOTAL EQUIPMENT	TOTALQUAN																	1
	1B	GRP "G__"	VERTICAL SECTION EQUIP	VERTSECT	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	1D	GRP "G90"	DETAIL (UNMOUNTED) EQUIP	*DETAIL															1		1
	1F	GRP"G98"	ADVANCE EQUIPMENT	ADVANCE																	1
	C	NP CIRCUIT	SET PER DWG SUFFIX MNP	NPCIRCUIT																	1
	COH	RELAY CO-6	1-12A, NO INST.	264C898A05					1					1							2 2
	COL	RELAY CO-7	1-12A, NO INST.	264C899A05					3					3							6 6
	COW	RELAY CO-9	1-12A, NO INST.	264C901A05	6	3	6			3				3		6	3	3			33 33
	CPB	RELAY CP	70-120V SPDT ICS IN U.V.	289B415A13					1					1							2 2
	CSW	SWITCH	W-2 BREAKER CONTROL	505A717G04	2	2	2		1		1			1		2	2	2			15 15
	CVC	RELAY CV-4	55-140V	1875510					1					1							2 2
	CW	RELAY CW	DEV. 32 20-120	289B988A09					1					1							2 2
	CXA	RELAY CVX	SYNC CHECK	1356D39A01					1		1			1							3 3
	D	NP DEVICE	SET PER DWG SUFFIX MNP	NPDEVICE																	1
	IG3	IND LIGHT	EZC GREEN 125V	449D187G24	2	2	2		1	1	1			1	1	2	2	2			17 17
	IQI	INCOM CARD	INCOM PONI	5275C54G01	2	1	2	1	1	1				1	1	1	2	1	1		15 15
	IQN	IQ DATA	SELF POWERED	2D78533G03	2	1	2	1							1	2	1	1			11 11
	IQR	IQ DP II	SELF POWERED	2D78522G01					1	1				1	1						4 4
	IR3	IND LIGHT	EZC RED 125V	449D187G14	2	2	2		1	1	1			1	1	2	2	2			17 17
	TA	RELAY IT	0.15 - 0.30A	1351D17A01	2	1	2									2	1	1			9 9
	IW3	IND LIGHT	EZC WHITE 125V	449D187G34					2		2			2							6 6
	KAB	RELAY KAB	75-200V,3-48A IT,BUS DIF	6668D37A22							6										6 6
	MDB	RELAY MDF-1	120VAC, 125VDC UNDR FREQ	1344D82A12					1					1							2 2
	MRX	RELAY 79	125VDC TYPE MRC2	MRC22N1					1					1							2 2
CD	PS	SWITCH	PARR. PERMISSIVE (69)	S6588WHH50							1										1 1
A	SWA	SWITCH	W-2 2 POS., 8 POLES	505A628G01							1										1 1
	TGA	TOGGLE SW	DPST 79 ON/OFF	SA02494G05					1					1							2 2
	THU	RELAY HU	2.9-8.7A XFMR DIFF 30%	290B346A09					3					3							6 6
	WLJ	RELAY WL-2	125/250V 16A&12A 5 STAGE	796A284G06							2										2 2
	WLK	RELAY WL-2	125/250V 6A & 4B 2 STAGE	796A264G06					2					2							4 4
	WNP	W. EMBLEM		1A31092H01	1																1 1
	XA	COVER	FT-11	125A311G01					4								4	4			12 12
	XB	IO COVER PL	IQ DATA PLUS	SA01323H01					1								1	1			3 3

B/M Number: S6588WH

B/M Rev: 08 Approved

HINGED PANEL EQUIPMENT

Bill of Material Notes

A ORDER WITH PISTOL GRIP HANDLE AND ENGRAVE: POS 12: MANUAL POS 1: AUTO  
A TITLE: DEVICE 43.

C ORDER W-2 TYPE ELECTRO-SWITCH STYLE #505A628G01 WITH HANDLE 501B787H01 AND  
C NAMEPLATE #692C707H12 ENGRAVED POS 12: PARALLEL POS 1: NORMAL AND TITLE  
C LINE #15: PARALLEL TRANSFER SWITCH 69. SWITCH TO BE (COMPLETE IN NOTE D)

D SUPPLIED WITH ONE TUMBLER PIN KEY LOCK LOCATED ABOVE THE SWITCH WITH KEY  
D REMOVABLE IN POS. 1.

<u>Rv</u>	<u>Revision Notes/Signatures</u>	<u>Revision Date</u>
07	CHANGED PART # ON ITEM PS & NOTE D.	08/13/92
..	Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	
08	DELETED ITEM DRC. ADDED ITEM MRX. CHANGED QTY. ON ITEMS	08/14/92
08	IW3 & WLK, NOTE C & D.	08/14/92
..	Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	



B/M Number: S6588WL

B/M Rev: 06 Approved

LOW VOLTAGE FIXED PANEL EQUIPMENT

Item	Part Name	Item Description	Part No.	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G90	G98	TOT
1A	GRP "G99"	TOTAL EQ	TOTALQUAN																	1
1B	GRP "G__"	VERTICAL SECTION EQ	VERTSECT	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1D	GRP "G90"	DETAIL (UNMOUNTED) EQ	*DETAIL															1		1
1F	GRP"G98"	ADVANCE EQ	ADVANCE																	1
AGA	TIMING RELAY	.5-5 SEC, 125VDC	8301A96H18							2										2 2
AGB	TIMING RELAY	.2-2 SEC, 125VDC	8301A98H17					1					1							2 2
AGD	RELAY	2-20 SEC, 125VDC	8301A97H20					1					1							2 2
AGX	TIMING RELAY	30-300 SEC, 125VDC	8301A98H21							2										2 2
EHD	SEC BKR	3P, 50A	EHD3050				1							1						2 2
F30	FUSE	30 AMPERE CONTROL	73482AJ00M	2			2			2				2					2	10
F40	FUSE	40 AMPERE CONTROL	73482AJ00P	4	4	4	2	2	2	6		2	2	2	4	4	4			42
FP	PULL FUSE	2-POLE 60 AMPERE	1A31000H02	2	2	2	1	1	1	3		1	1	1	2	2	2			21
FP2	PULL FUSE	2-POLE 30 AMPERE	1A31000H01	1			1			1				1			1			5
MG6	RELAY MG-6	125VDC ELECT. RESET	289B363A11							4										4 4
TRA	DIODE TRB-1	125VDC TRIP & BLOCK 1-UNIT	184A414G12					1					1							2 2

B/M Number: S6588WL

B/M Rev: 06 Approved

LOW VOLTAGE FIXED PANEL EQUIPMENT

<u>Revision Notes/Signatures</u>	<u>Revision Date</u>
05 ADDED ITEMS AGD & TRA. .. Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	08/14/92
06 CHANGED PART # ON ITEM AGA, ITEM DESC. ON ITEMS AGA,AGB, 06 AGD AND AGX.	09/10/92 09/10/92
.. Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	

B/M Number: S6588WM

B/M Rev: 08 Approved

MISCELLANEOUS EQUIPMENT

tm	Part Name	Item Description	Part No.	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G88	G90	G97	G98	
1A	GRP "G99"	TOTAL EQ	TOTALQUAN																			
1B	GRP "G__"	VERTICAL SECTION EQ	VERTSECT	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
1C	GRP "G88"	SPECIAL MTL/NOTES	MTL-NOTES																1			
1D	GRP "G90"	DETAIL (UNMOUNTED) EQ	*DETAIL																	1		
1E	GRP "G97"	DIRECT SHIP EQ	*DIRECT																		1	
1F	GRP"G98"	ADVANCE EQ	ADVANCE																			1
521	BREAKER	1200A, 50VCP-W250	3776A11G02	2	1	2		1	1	1		1	1		2	1	1		14			
BX	BAT BATTERY	BATTERY NI-CAD	S6588WMH60																		1	1
CX	CHG CHARGER	BAT CHARGER WALL MTD	S6588WMH51																		1	1
E	CPT TRANSFORMER	15KV, 3 PHASE	S6588WMH53					1						1								2
CS1	BUS BAR	1200A CU-SILVER PLATED	509B044H06	3	3	3	3		3		3		3	3	3	3			6			
CTD	CT 150-5	STD C20	6353C88H02	6													3					9
CTJ	CT 600-5	STD C100	6353C88H08		3	6									6	3						18
CTM	CT 1200-5	STD C200	6353C88H11	6	3	6		3	3	6		3	3		6	3	3					45
CTU	CT 1200-5MR	STD C200	6350C24H01					6	3			3	6									18
F06	FUSE	6 AMPERE CONTROL	73482AJ00G					2	2	2		2	2	2								
FBA	FUSE	4.8KV 0.5E	677C452G01					3	3	3		3	3	3								18
FBE	FUSE	4.8KV 3.0E	677C453G07					3						3								6
F01	FUTURE BKR	1200A	FUT1200		1											1	1					
F02	PULL FUSE	2-POLE 30 AMPERE	1A31000H01				1	1	1			1	1	1								
GB	GRD BUS-2IN	SHIPPING BREAK-.25X2 CU	8276A77H01	1	1	1	1		1	1	1		1	1	1	1					2	
H9	TOC WIRED	TOC SW, 4A & 5B	6510C49G03					1	1	1		1	1									
HA	HEATER ASSY	750 WATTS TOTAL	6511C86G01	1	1	1		1	1	1		1	1		1	1	1					
HC	HEATER ASSY	595 WATTS TOTAL	6511C86G05				1							1								
HD	HEATER ASSY	500 WATTS TOTAL	6511C86G07								1											
ISP	INSPECTION	BY CUSTOMER	INSPECTION																1			
KIA	KEY INTLK	ORDER PER 6588MLK	6588MLKH01					1														1
KIB	KEY INTLK	ORDER PER 6588MLK	6588MLKH02											1								1
LI	TERMINAL	4/0 COMPRESSION	8264A16H09	1													1					
N1	DRILLING	NEMA 2-HOLE 1/PHASE	N1DRILLING	2	2	2		1	1			1	1		2	2	2					
NX	NEUT BUS	NEUTRAL BUS - VS5 & VS9	SA01387H07																		2	
DX	RAC RACK	BATTERY RACK	S6588WMH52																		1	1
RPT	TEST REPORT	OF CERTIFIED PROD TESTS	REPORT																1			
SME	ARRESTER	6KV STN CLS, EXLIM Q	Q006PA005A					3					3									6
STA	MOC, 9-POLE	5A & 4B, CONN & TEST	6510C50G02	2	2	2		1	1	1		1	1		2	2	2					
VLB	TRANSFORMER	VIY-60 4200-120V	7525A54G02				2	2	2			2	2	2								12
WM1	WIRE MARKER	ADHESIVE WRAP-ON	8301A43H02																1			
Z	TRANSFORMER	ZERO SEQUENCE 50-5A	6353C97H01	2	1	2									2	1	1					9
Z01	TEST CABINET	DC C,M,T W/WO UV	8346A28G21																1			1

B/M Number: S6588WM - (Cont.) -

MISCELLANEOUS EQUIPMENT

B/M Number: S6588WM

B/M Rev: 08 Approved

MISCELLANEOUS EQUIPMENT

Item	Part Name	Item Description	Part No.	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G88	G90	G97	G98		
Z52	TIE BOLT KIT	WORLD CELL INDOOR	KIT #005																			2	
Z61	SNUBBER	1200 AMPERE MAIN BUS	6362C41H01																			6	
Z64	PAINT LGHT	ANSI 61, 9 OZ SPRAY	32220A100K																			2	
Z71	DRAWING	SWITCHGEAR STORAGE	REF700B214																			1	
A Z75	INSTRCT BOOK	INDOOR VC-W	1B32-255																			2	
A Z78	INSTRCT BOOK	POWER BREAKER VCP-W	1B32-255-1																			2	
Z82	CUSTOMER DWG	ELECTRICAL AS BUILT	CUSTDWGE																			1	
Z83	CUSTOMER DWG	MECHANICAL AS BUILT	CUSTDWG																			1	
Z0A	DOLLY ASSY	DOCKABLE, VCP-W	6510C71G11																			1	1
Z0B	BKR RAMP	BREAKER RAMP ASSY	7811C71G01																			1	1
Z0D	ELECT LEV-IN		1A30257G01																			1	1
Z0F	PORT. LIFTER		6366C91H01																			1	1
ZS1	HANDLE ASSY	BKR/SHUTTER HANDLE ASSY	8064A02G01																			1	1
ZS4	CRANK/CLUTCH	LEVERING VCP-W	701B601G01																			1	1
ZS5	LIFT YOKE	BREAKER LIFTING VCP-W	691C607G01																			1	1
ZS6	RAIL CLAMP	VCP-W	6511C83G01																			2	2
ZS7	TEST JUMPER	TEN CONDUCTOR VCP-W	6526C23G11																			1	1
ZS9	RAIL EXT	LH & RH RAIL VC-W	7813C41G03																			2	2

B/M Number: S6588WM

B/M Rev: 08 Approved

MISCELLANEOUS EQUIPMENT

	tm	Part Name	Item Description	Part No.	TOT
	1A	GRP "G99"	TOTAL EQ	TOTALQUAN	1
	1B	GRP "G__"	VERTICAL SECTION EQ	VERTSECT	
	1C	GRP "G88"	SPECIAL MTL/NOTES	MTL-NOTES	
	1D	GRP "G90"	DETAIL (UNMOUNTED) EQ	*DETAIL	1
	1E	GRP "G97"	DIRECT SHIP EQ	*DIRECT	
	1F	GRP"G98"	ADVANCE EQ	ADVANCE	
	521	BREAKER	1200A, 50VCP-W250	3776A11G02	14
BX	BAT	BATTERY	BATTERY NI-CAD	S6588WMH60	
CX	CHG	CHARGER	BAT CHARGER WALL MTD	S6588WMH51	
E	CPT	TRANSFORMER	15KV, 3 PHASE	S6588WMH53	2
	CS1	BUS BAR	1200A CU-SILVER PLATED	509B044H06	36
	CTD	CT 150-5	STD C20	6353C88H02	9
	CTJ	CT 600-5	STD C100	6353C88H08	18
	CTM	CT 1200-5	STD C200	6353C88H11	45
	CTU	CT 1200-5MR	STD C200	6350C24H01	18
	F06	FUSE	6 AMPERE CONTROL	73482AJ00G	12
	FBA	FUSE	4.8KV 0.5E	677C452G01	18
	FBE	FUSE	4.8KV 3.0E	677C453G07	6
	F01	FUTURE BKR	1200A	FUT1200	3
	FP2	PULL FUSE	2-POLE 30 AMPERE	1A31000H01	6
	GB	GRD BUS-2IN	SHIPPING BREAK-.25X2 CU	8276A77H01	13
	H9	TOC WIRED	TOC SW, 4A & 5B	6510C49G03	5
	HA	HEATER ASSY	750 WATTS TOTAL	6511C86G01	11
	HC	HEATER ASSY	595 WATTS TOTAL	6511C86G05	2
	HD	HEATER ASSY	500 WATTS TOTAL	6511C86G07	1
	ISP	INSPECTION	BY CUSTOMER	INSPECTION	
	KIA	KEY INTLK	ORDER PER 6588MLK	6588MLKH01	1
	KIB	KEY INTLK	ORDER PER 6588MLK	6588MLKH02	1
	LI	TERMINAL	4/0 COMPRESSION	8264A16H09	2
	N1	DRILLING	NEMA 2-HOLE 1/PHASE	N1DRILLING	16
	NX	NEUT BUS	NEUTRAL BUS - VS5 & VS9	SA01387H07	2
DX	RAC	RACK	BATTERY RACK	S6588WMH52	
	RPT	TEST REPORT	OF CERTIFIED PROD TESTS	REPORT	
	SME	ARRESTER	6KV STN CLS, EXLIM Q	Q006PA005A	6
	STA	MOC, 9-POLE	5A & 4B, CONN & TEST	6510C50G02	17
	VLB	TRANSFORMER	VIY-60 4200-120V	7525A54G02	12
	WM1	WIRE MARKER	ADHESIVE WRAP-ON	8301A43H02	
	Z	TRANSFORMER	ZERO SEQUENCE 50-5A	6353C97H01	9
	Z01	TEST CABINET	DC C,M,T W/WO UV	8346A28G21	1

B/M Number: S6588WM - (Cont.) -

MISCELLANEOUS EQUIPMENT

Page No. 3



B/M Number: S6588WM

B/M Rev: 08 Approved

MISCELLANEOUS EQUIPMENT

Itm	Part Name	Item Description	Part No.	TOT
Z52	TIE BOLT KIT	WORLD CELL INDOOR	KIT #005	2
Z61	SNUBBER	1200 AMPERE MAIN BUS	6362C41H01	6
Z64	PAINT LGHT	ANSI 61, 9 OZ SPRAY	32220AI00K	2
Z71	DRAWING	SWITCHGEAR STORAGE	REF700B214	1
A Z75	INSTRCT BOOK	INDOOR VC-W	1B32-255	2
A Z78	INSTRCT BOOK	POWER BREAKER VCP-W	1B32-255-1	2
Z82	CUSTOMER DWG	ELECTRICAL AS BUILT	CUSTDWGE	1
Z83	CUSTOMER DWG	MECHANICAL AS BUILT	CUSTDWG	1
ZOA	DOLLY ASSY	DOCKABLE, VCP-W	6510C71G11	1
ZOB	BKR RAMP	BREAKER RAMP ASSY	7811C71G01	1
ZOD	ELECT LEV-IN		1A30257G01	1
ZOF	PORT. LIFTER		6366C91H01	1
ZS1	HANDLE ASSY	BKR/SHUTTER HANDLE ASSY	8064A02G01	1
ZS4	CRANK/CLUTCH	LEVERING VCP-W	701B601G01	1
ZS5	LIFT YOKE	BREAKER LIFTING VCP-W	691C607G01	1
ZS6	RAIL CLAMP	VCP-W	6511C83G01	2
ZS7	TEST JUMPER	TEN CONDUCTOR VCP-W	6526C23G11	1
ZS9	RAIL EXT	LH & RH RAIL VC-W	7813C41G03	2

B/M Number: S6588WM

B/M Rev: 08 Approved

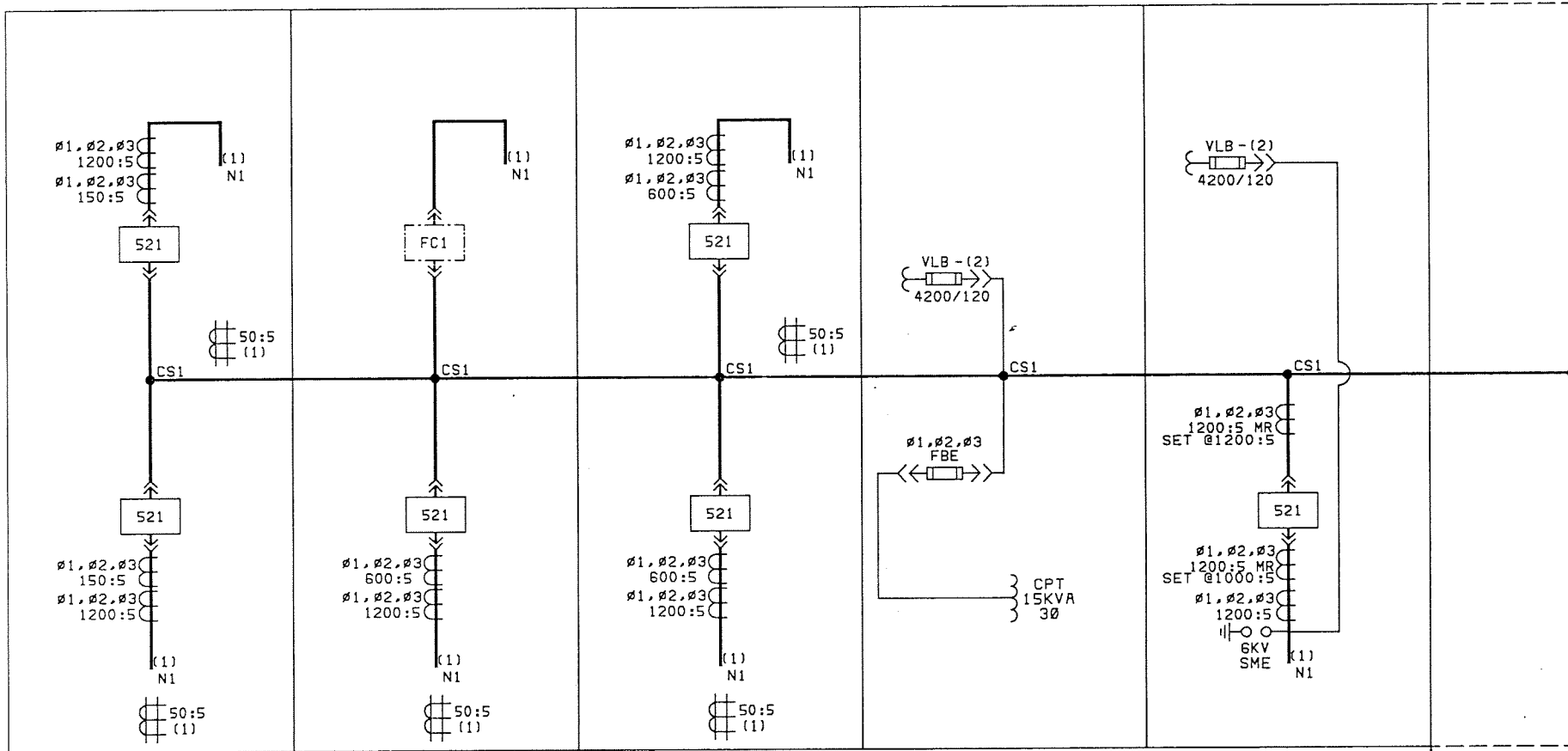
MISCELLANEOUS EQUIPMENT

S. Bill of Material Notes

- A 1 COPY IN SWGR & 1 COPY IN DETAIL BOX.
- B ORDER ALCAD QTY (92) CELLS OF NI-CAD BATTERIES TYPE UHP40  
B TO BE MTD ON A 3 STEP RACK
- C ORDER ALCAD CHARGER STYLE NO. 1SCR-F-130-012 WITH ALL STANDARDS OPTIONS  
C INCLUDED.
- D ORDER ALCAD 3 STEP RACK SIZE 2/W X 29" H X 120 L  
D FOR USE WITH 92 NICAD CELLS
- E ORDER EPOXY CAST #4603-22 (SIZE .5 1/4" H X 33" W)
- X ORDER 4 COPIES OF IB'S TO BE SENT TO: FRAN SOUTHERLAND  
X 2210 LAURENS HWY  
X GREENWOOD S.C. 29646

<u>Rv</u>	<u>Revision Notes/Signatures</u>	<u>Revision Date</u>
07	CHANGED PART # ON ITEM 521. .. Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	08/19/92
0	DELETED ITEM STB. CHANGED QTY.ON ITEM STA. .. Draftsman      Engineer      Mech. Engr.      Supervisor HILL              FIELDS	09/10/92

PRIMARY H.V. CONNECTIONS TO BE INSULATED BY PURCHASER.  
 NEMA DRILLING OR TERMINALS-INSULATING MATERIAL BY PURCHASER.  
 AT SHIPPING BREAKS-INSULATING MATERIAL BY WESTINGHOUSE.



WEST. V.S. NO. 1


2

3

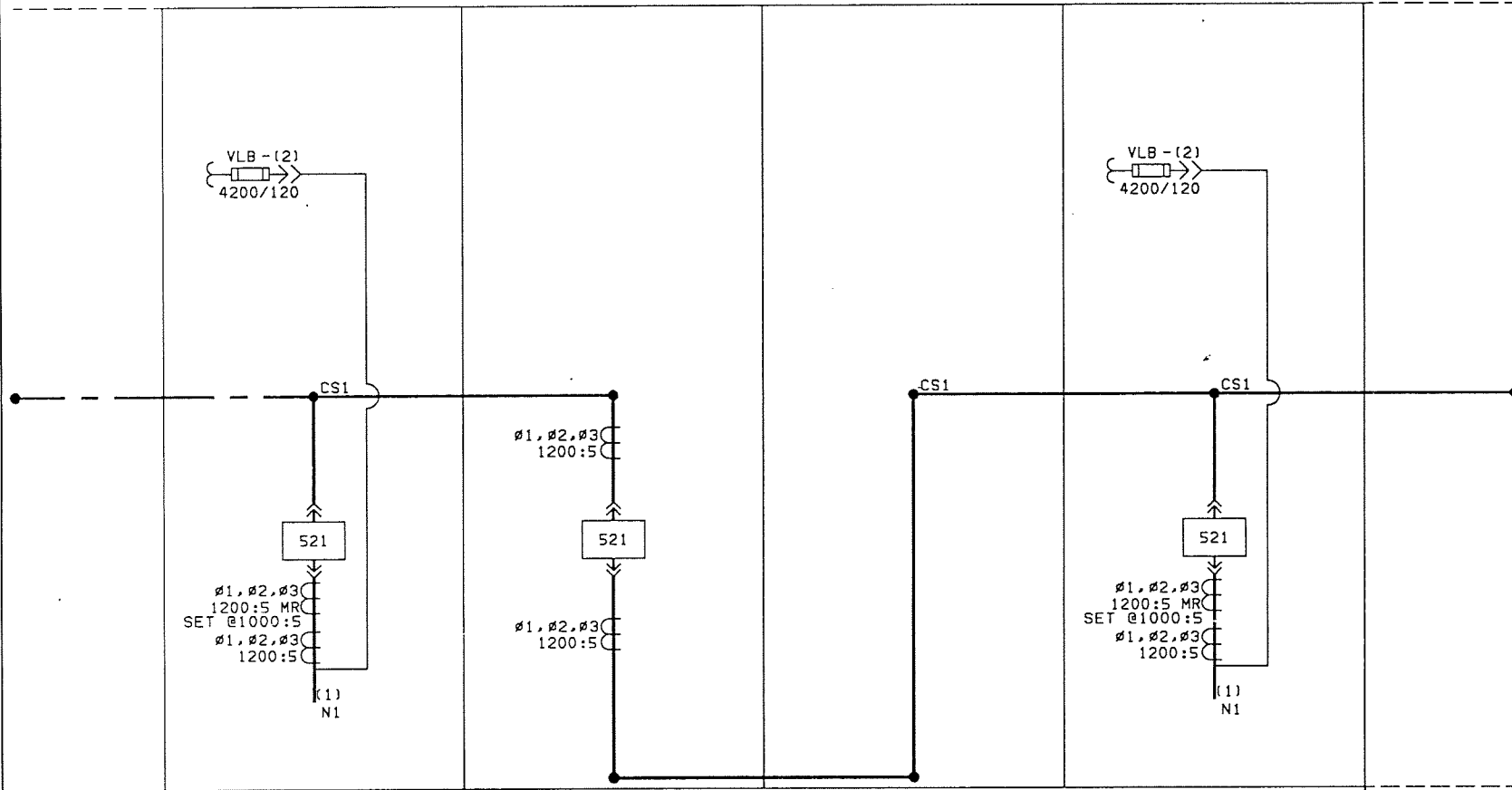
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CUST. NO.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE PRIMARY ONE LINE	
				SHEET 1 OF 3	DWG NO. 6588MOL
REV 1 2	S.G.1				

SEE SHEET NO.1 OF THIS DWG FOR APPLICABLE NOTES.




WEST. V.S. NO. 6  
CUST. NO.

7

8

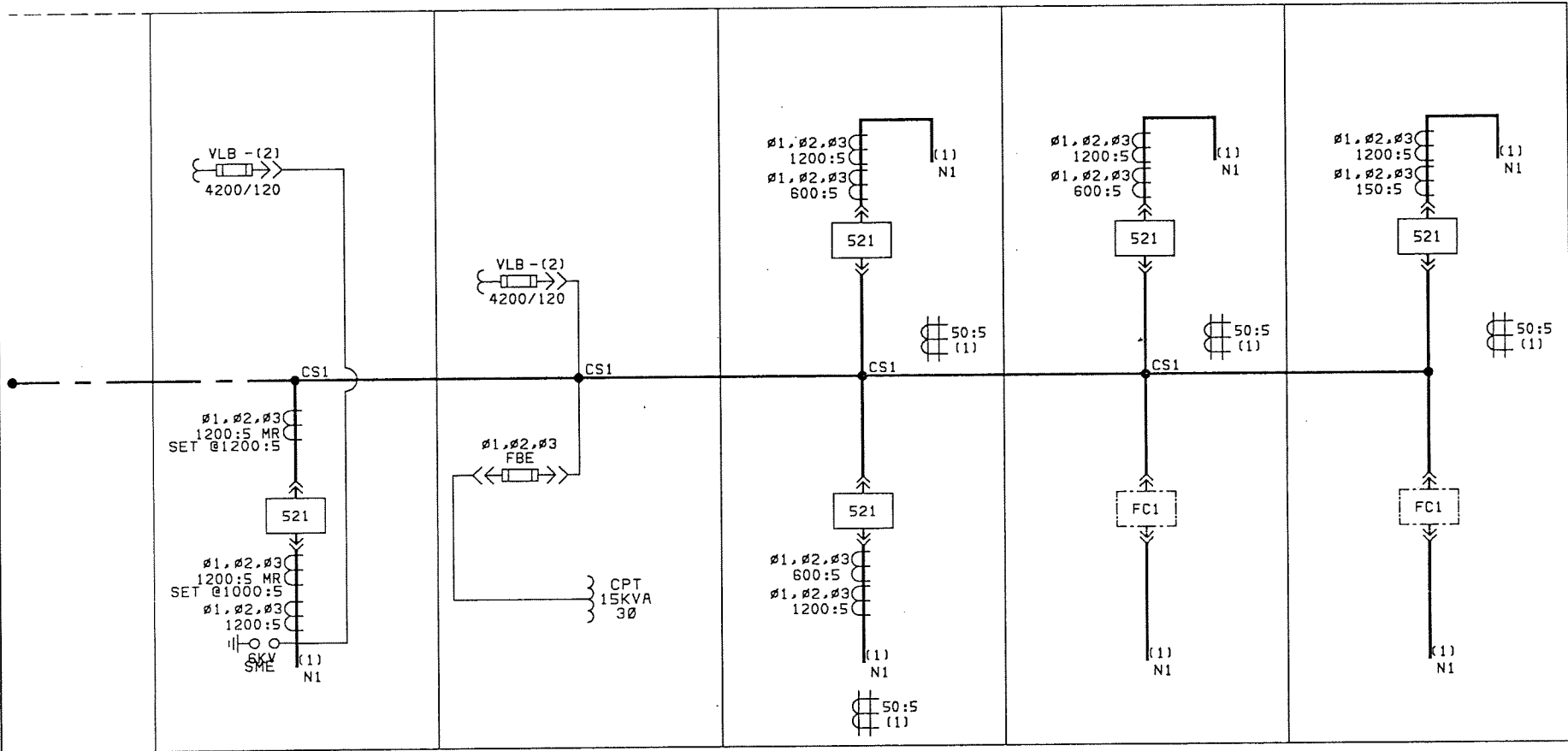
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SHIPPING SPLIT

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE PRIMARY ONE LINE	
				REV 1 2	SHEET 2 OF 3

S.G.2

SEE SHEET NO.1 OF THIS DWG FOR APPLICABLE NOTES.



WEST. V.S. NO. 10

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CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#

BSHR45014-MVA

DFT#

HILL

DATE

8-7-92

TITLE

PRIMARY ONE LINE

SHEET

3 OF 3

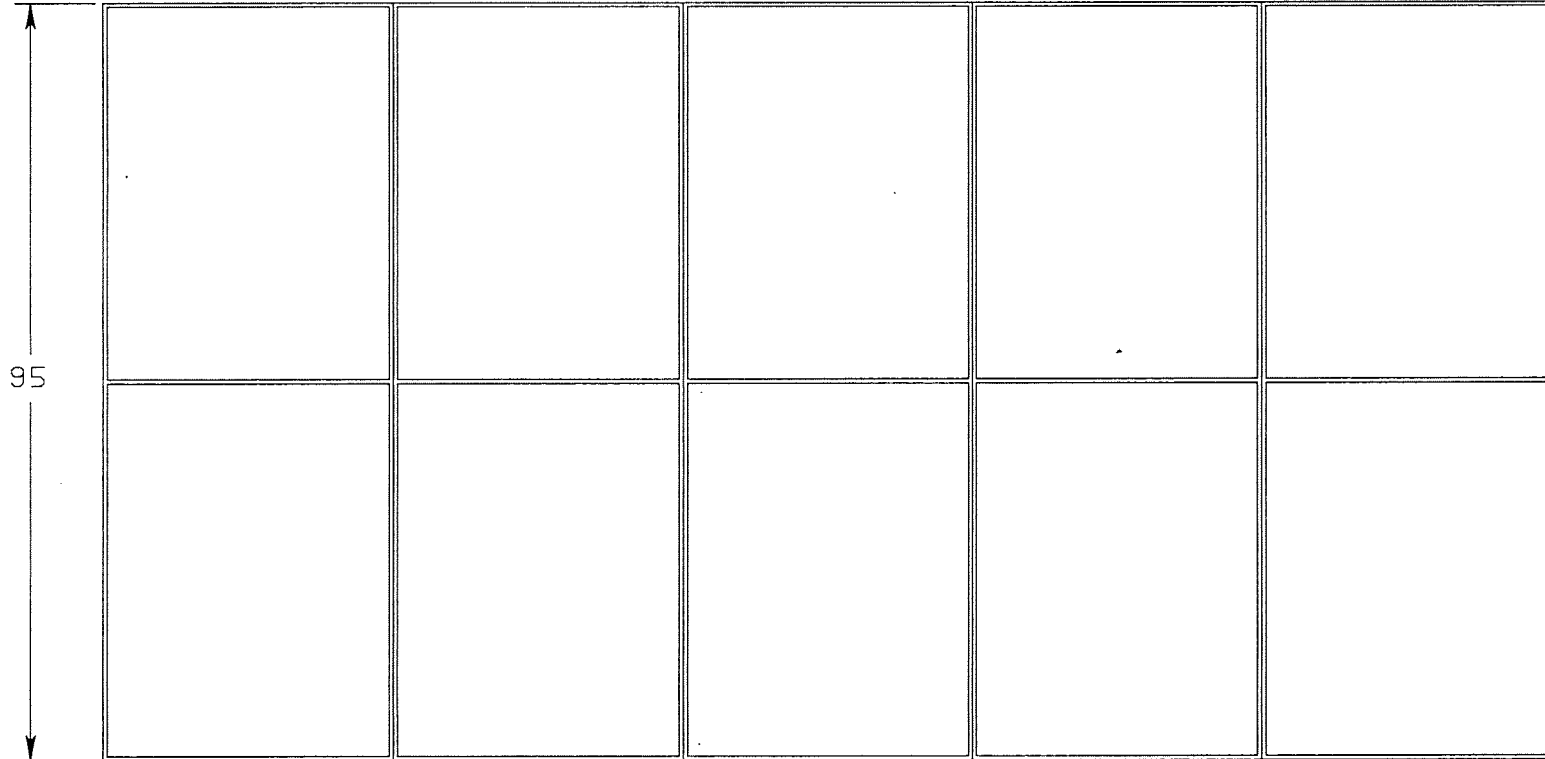
DWG NO.

6588MOL

REV 1 2

S.G.3





95

36

36

36

36

36

WEST. V.S. NO.

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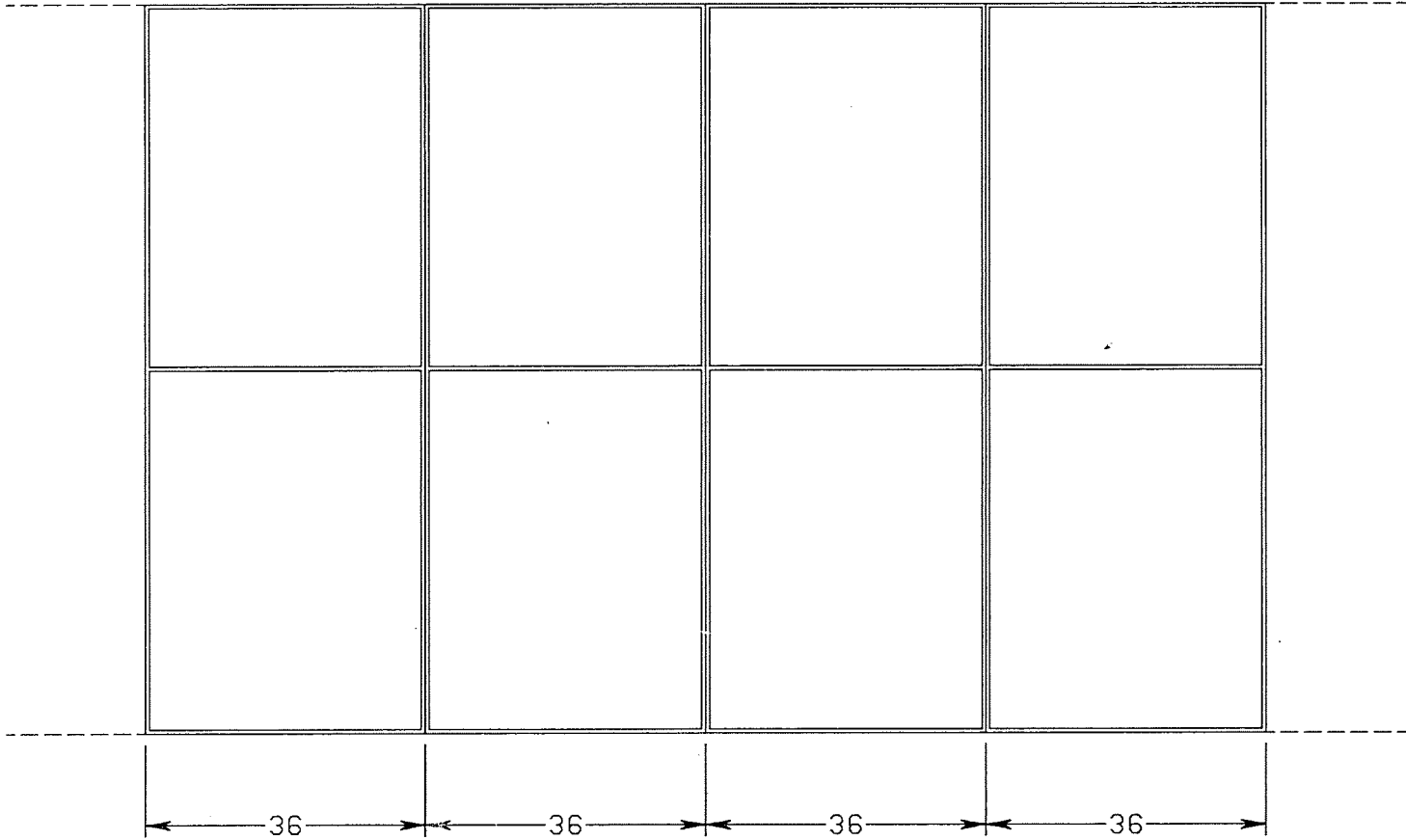
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5

CUST. NO.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE FRONT ELEVATION	
			S.G.1	SHEET 1 OF 6	DWG NO. 6588MEL

REV 1 2




WEST. V.S. NO.  
CUST. NO.

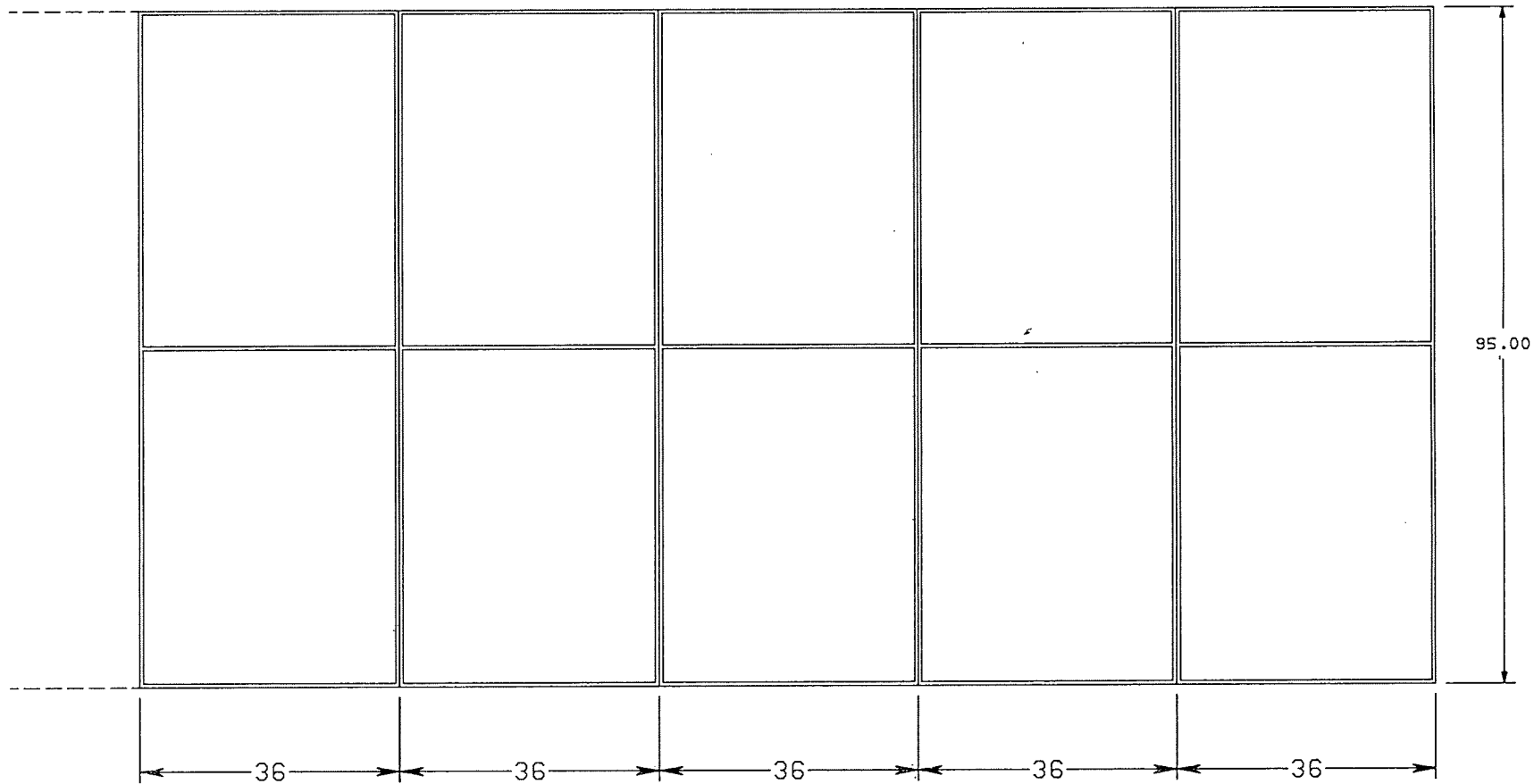
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 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE FRONT ELEVATION	
				SHEET 2 OF 6	DWG NO. 6588MEL
REV 1 2				S.G.2	



WEST. V.S. NO.

10

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CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#

BSHR45014-MVA

DFTR

HILL

DATE

8-7-92

TITLE

FRONT ELEVATION

SHEET

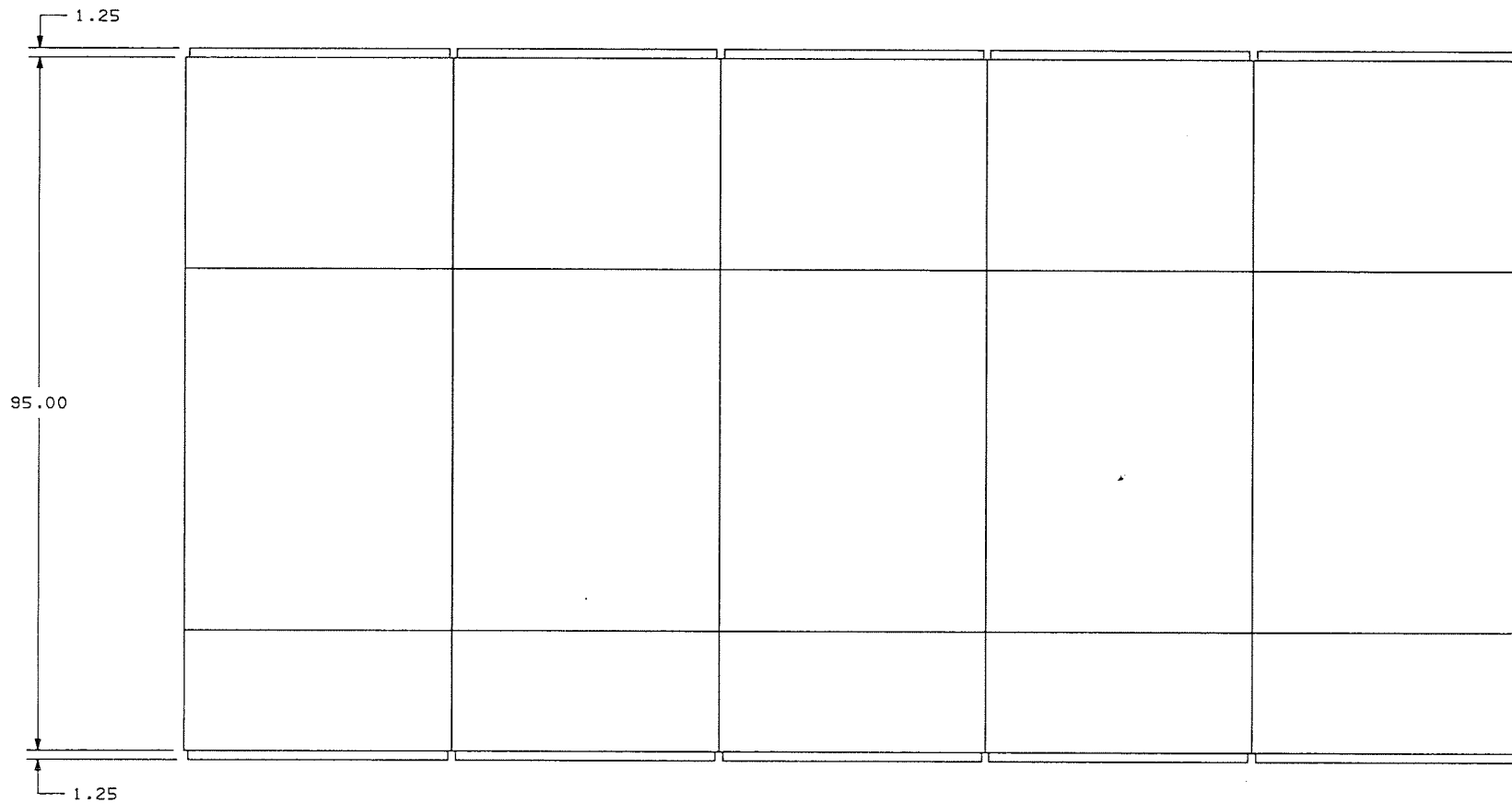
DWG NO.

3 OF 6

6588MEL

REV 1 2

S.G.3



WEST. V.S. NO.

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CUST. NO.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE PLAN VIEW	
	REV   1   2	S.G.1	SHEET 4 OF 6	DWG NO. 6588MEL	


WEST. V.S. NO.


6

7

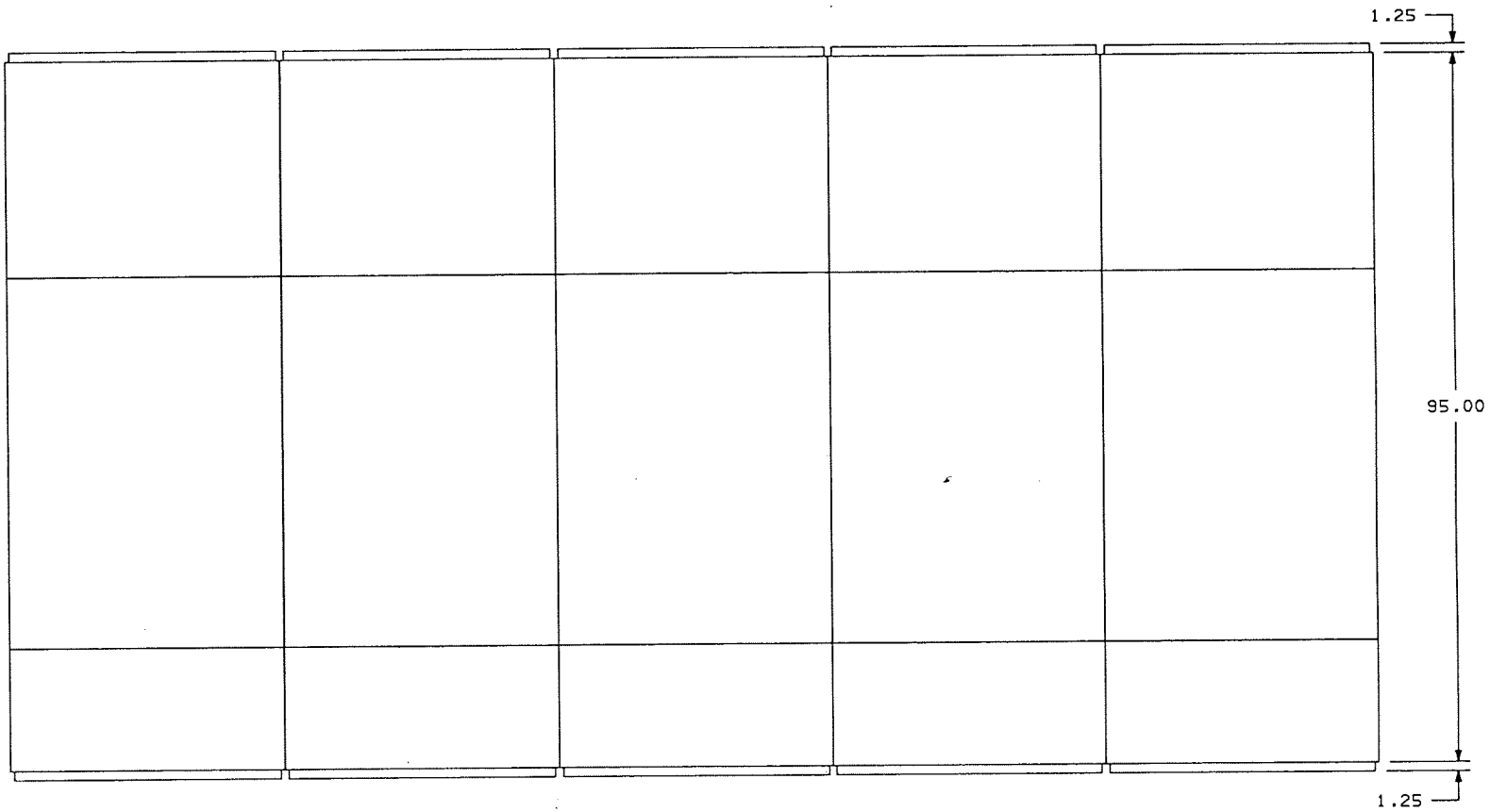
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CUST. NO.


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REV 1 2	S.G.2				



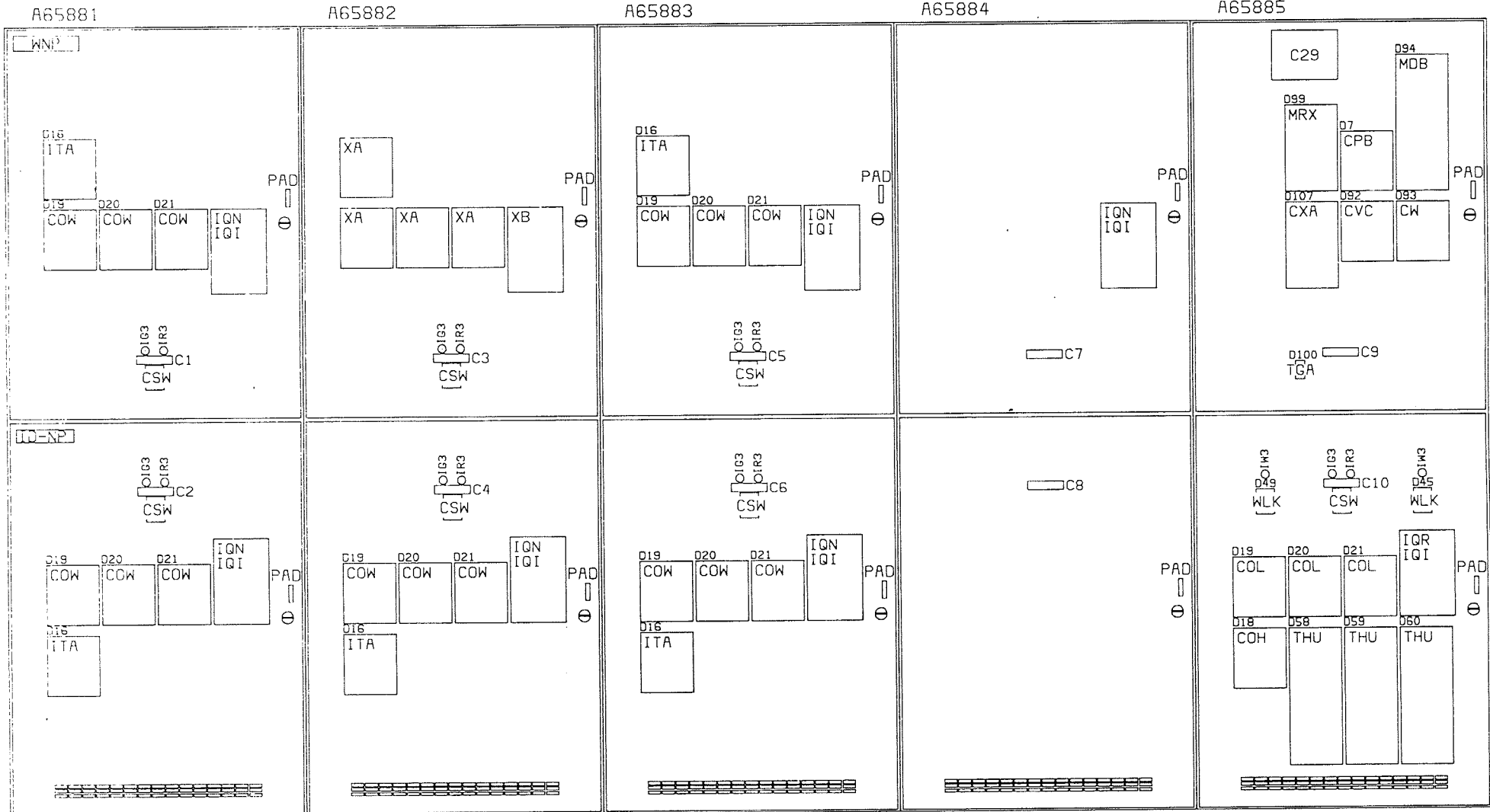


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CUST. NO.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE                      PLAN VIEW	
				SHEET 6 OF 6	DWG NO. 6588MEL
REV   1   2	S.G.3				

SEE DRAWING WITH SUFFIX MNP FOR NAMEPLATE ENGRAVING



SHIPPING SPLIT →

B65881

B65882

B65882

B65884

B65885

V.S. 01

02

03

04

05

WESTINGHOUSE GREENWOOD, SC

G.O.# BSHR45014-MVA

DFTR THOMASON

DATE 08-14-92

TITLE HINGED PANELS AND EQUIPMENT

SHEET

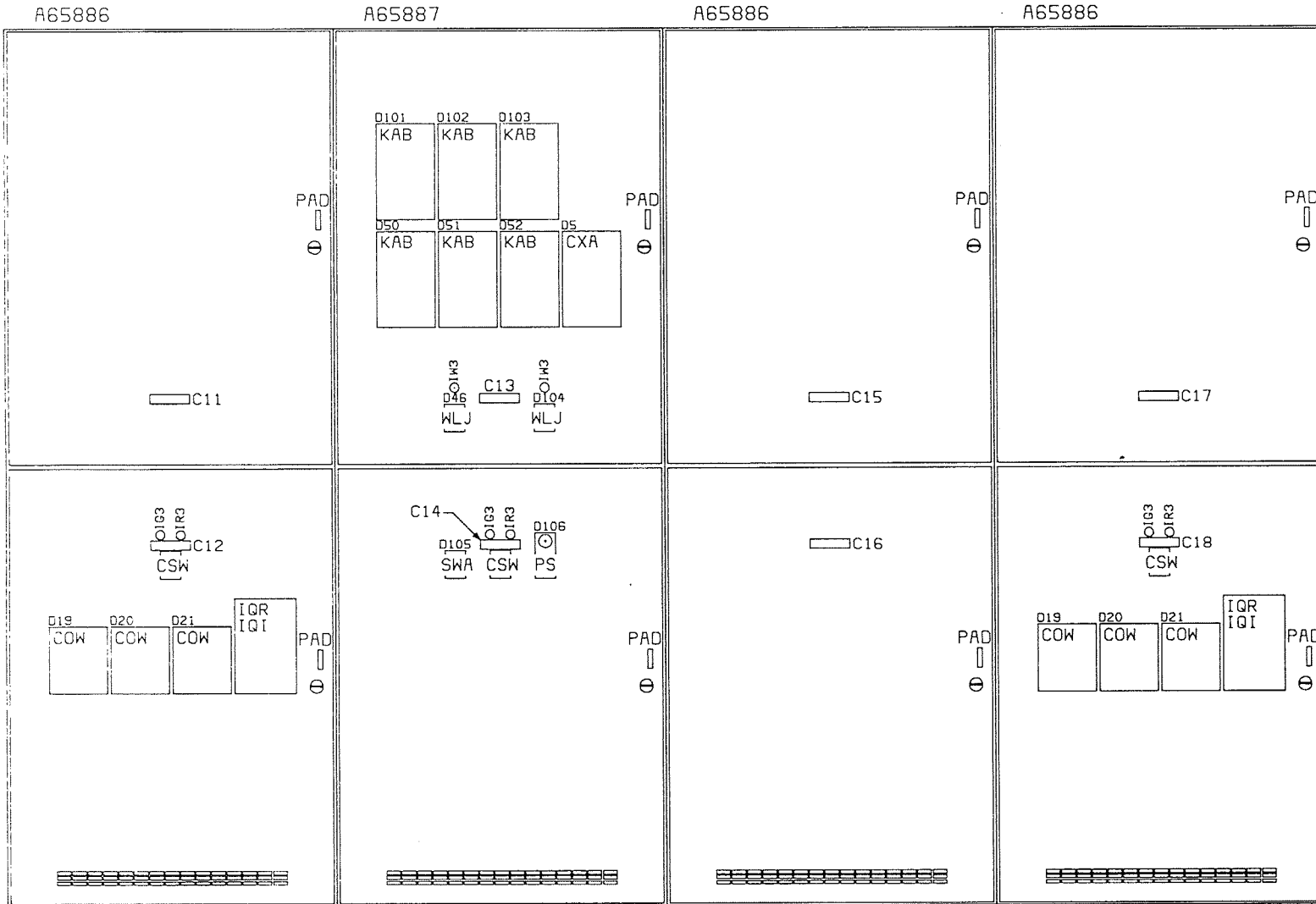
DWG NO.

1 OF 3

6588MHP

REV 1 2 3

SEE DRAWING WITH SUFFIX MNP FOR NAMEPLATE ENGRAVING



SHIPPING SPLIT

B65886

B65887

B65884

B65886

V.S.

06

07

08

09



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
THOMASON

DATE  
08-14-92

TITLE HINGED PANELS AND EQUIPMENT

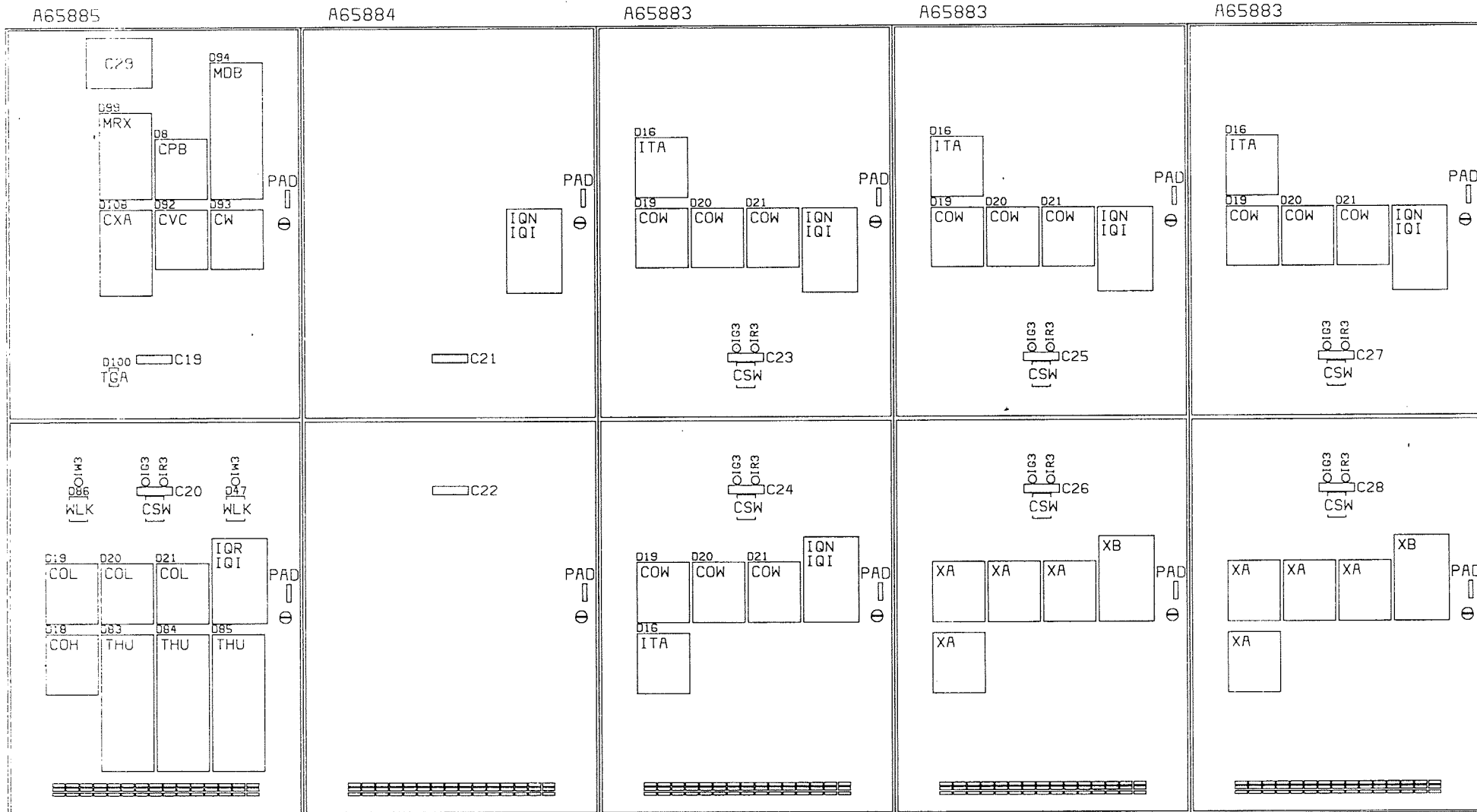
SHEET DWG NO.

2 OF 3

6588MHP

REV 1 2 3

SEE DRAWING WITH SUFFIX MNP FOR NAMEPLATE ENGRAVING



B65885

B65884

B65882

B6588A

B6588A

V.S.

10

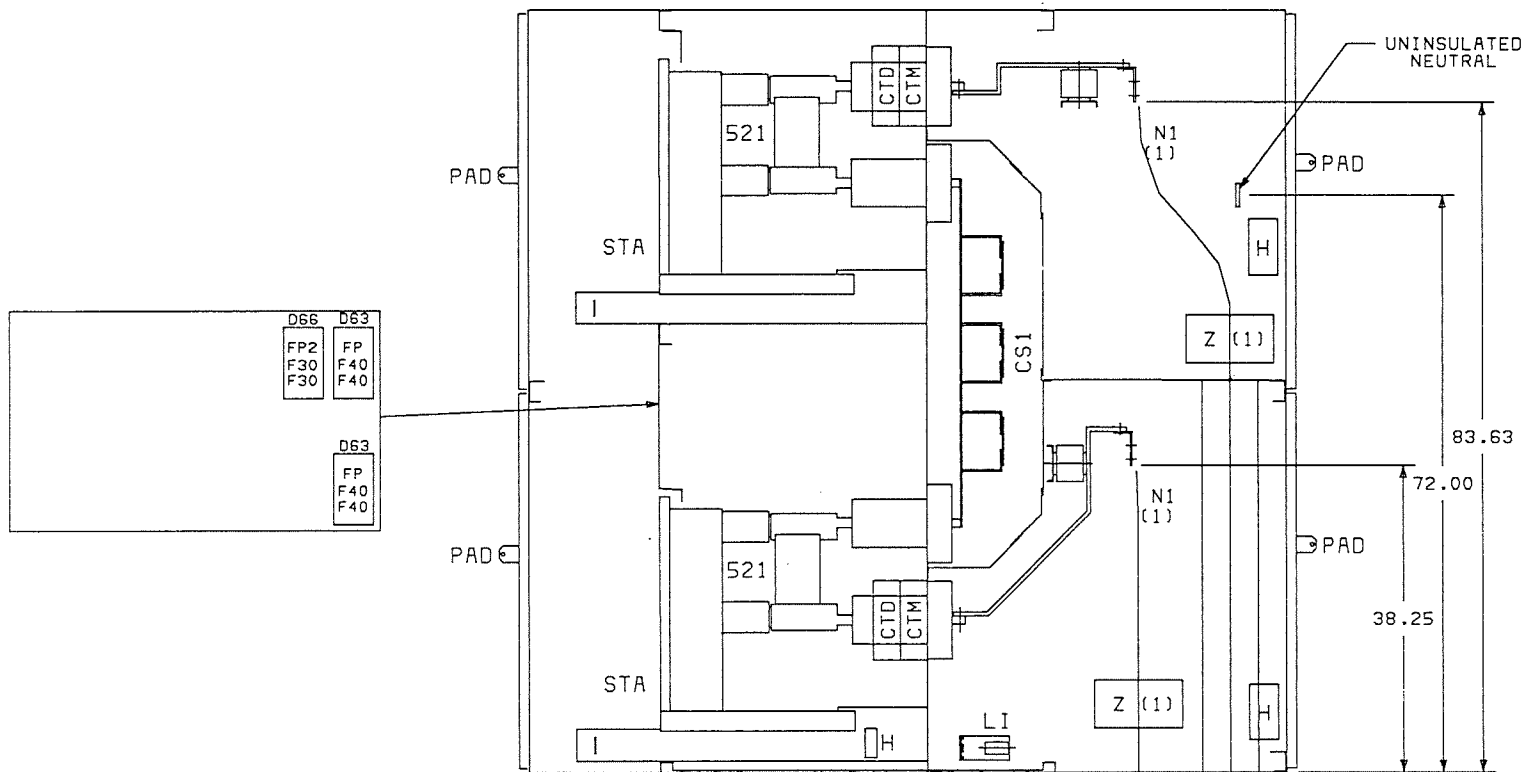
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WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR THOMASON	DATE 08-14-92	TITLE HINGED PANELS AND EQUIPMENT
				SHEET 3 OF 3
REV 1 2 3				DWG NO. 6588MHP



WEST. V.S. NO.

1

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

TITLE SECTIONAL SIDE VIEW

SHEET  
1 OF 14

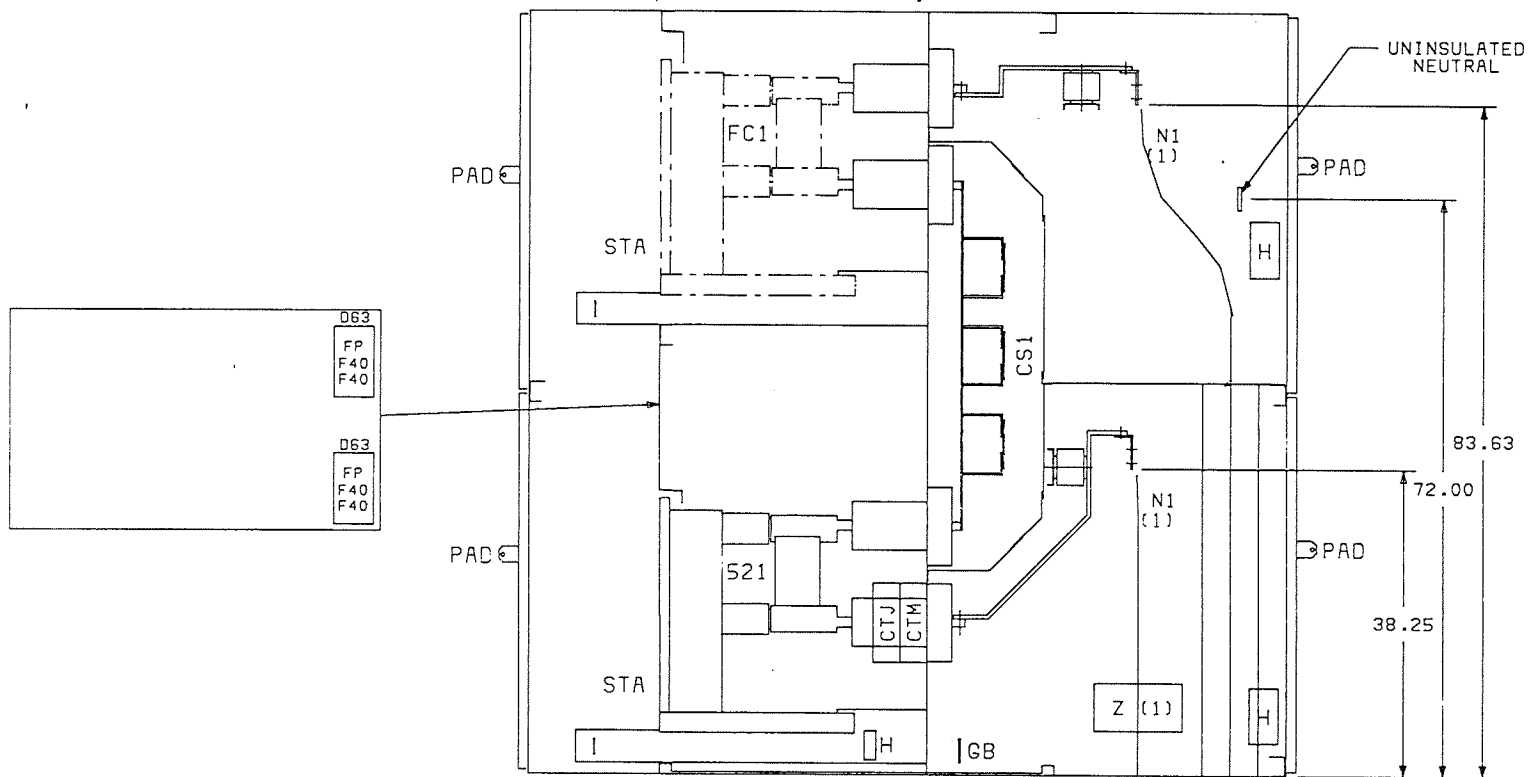
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6588MSV

REV 1 2 3

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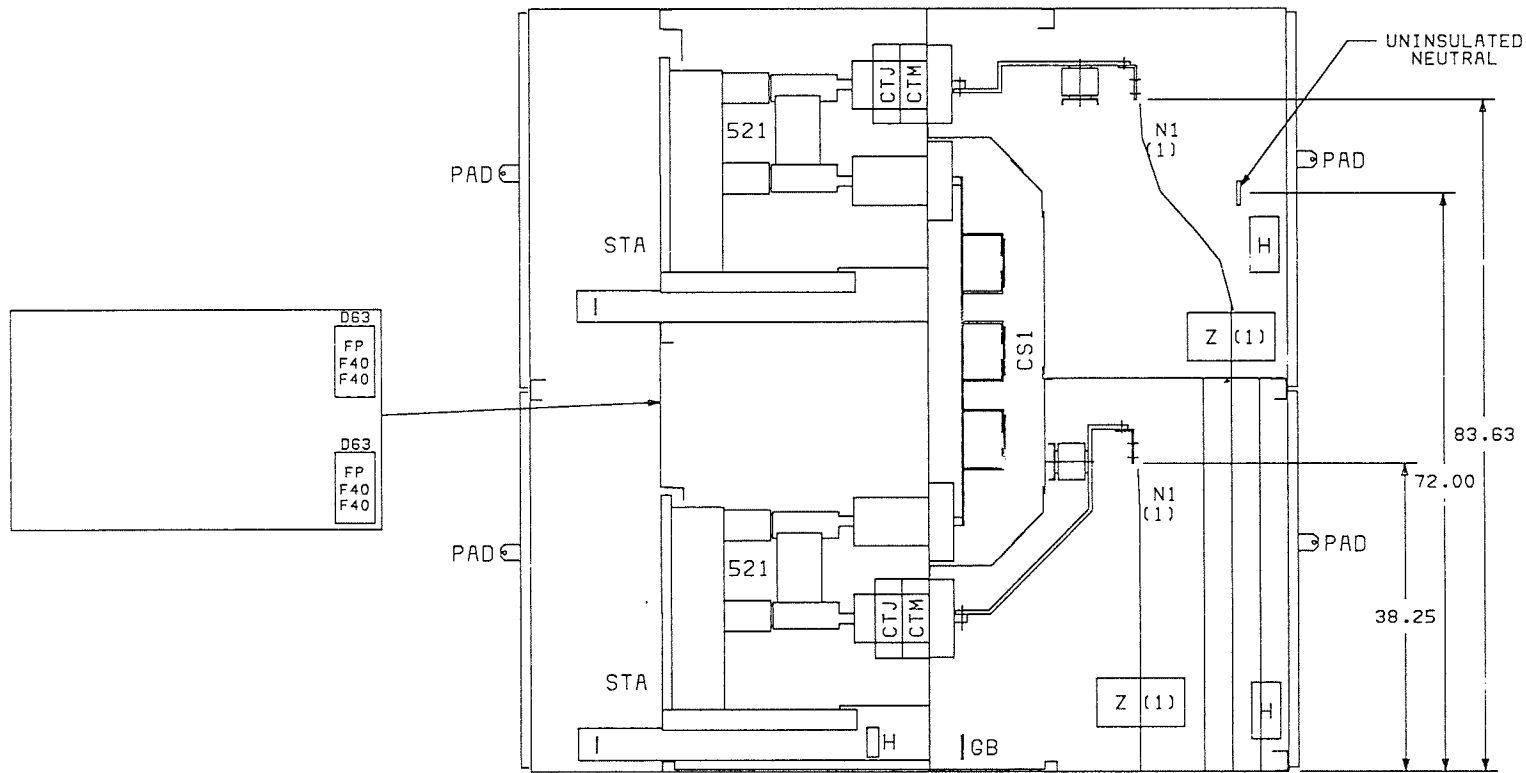


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CUST. NO.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE SECTIONAL SIDE VIEW	
				SHEET 2 OF 14	DWG NO. 6588MSV
REV 1 2 3	S.G.1-V.S.2				



WEST. V.S. NO.

3

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

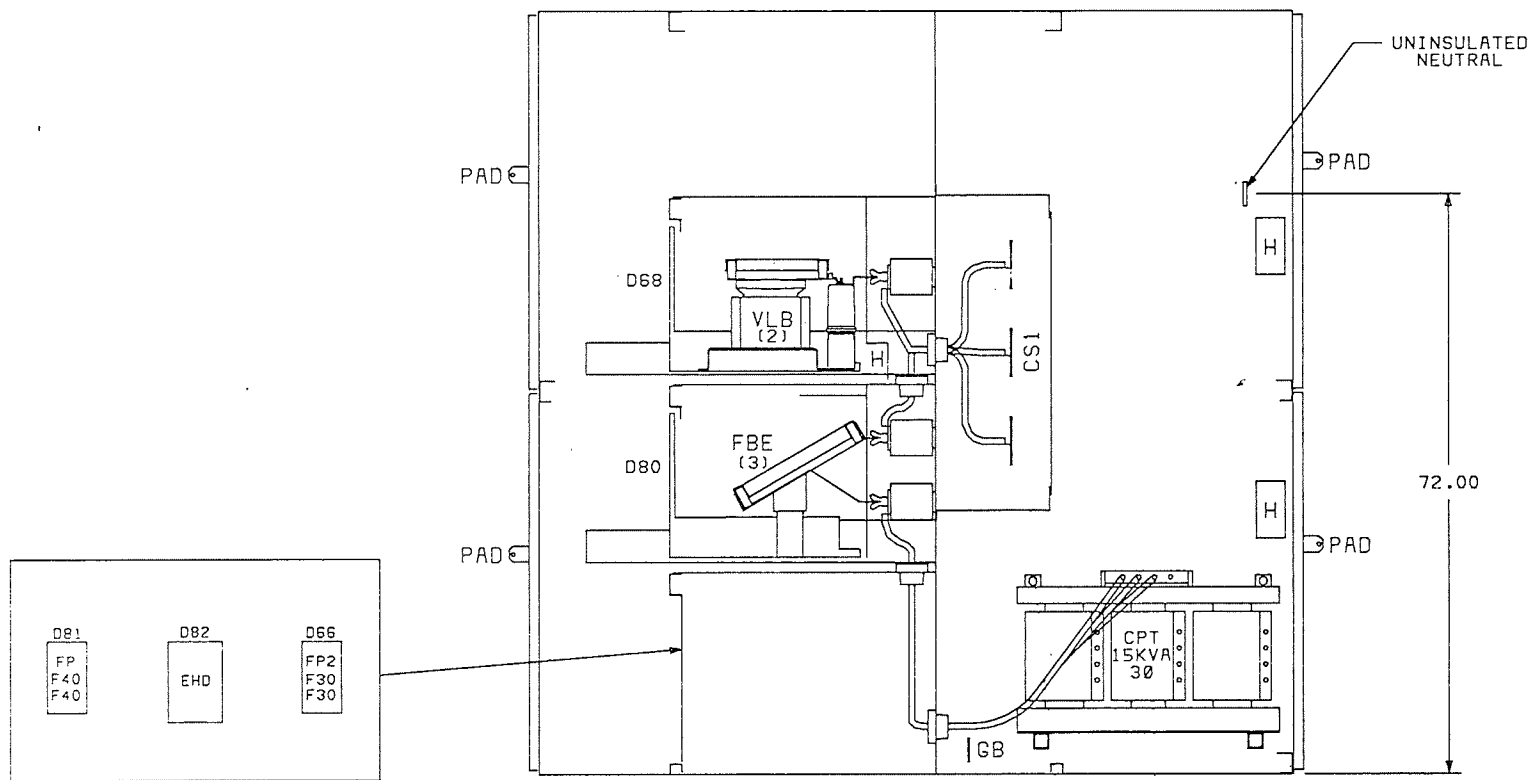
TITLE SECTIONAL SIDE VIEW

SHEET  
3 OF 14

DWG NO.  
6588MSV

REV 1 2 3

S.G.1-V.S.3



WEST. V.S. NO.

4

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

TITLE SECTIONAL SIDE VIEW

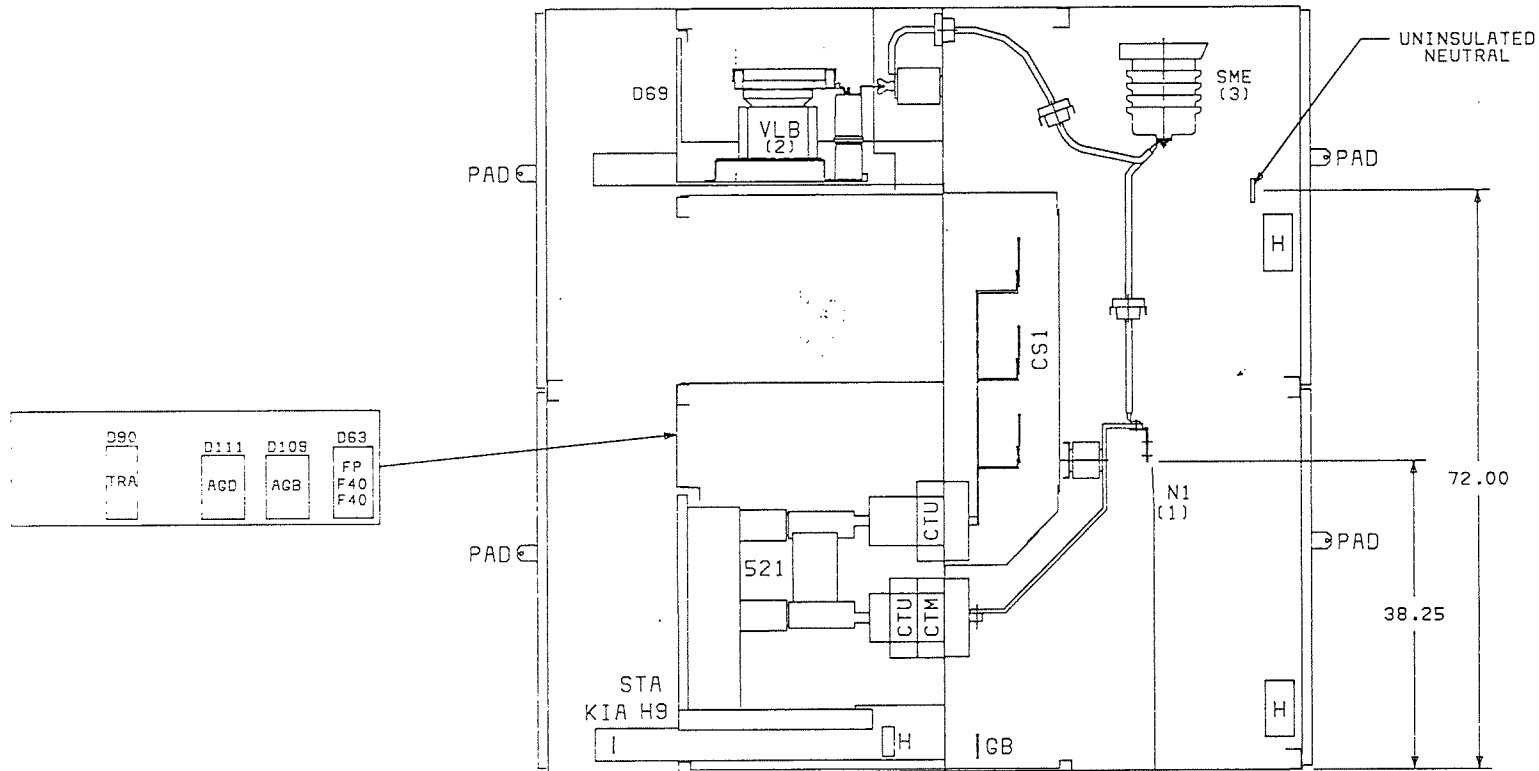
SHEET  
4 OF 14

DWG NO.

6588MSV

REV 1 2 3

S.G.1-V.S.4



WEST. V.S. NO.

5

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#

BSHR45014-MVA

DFTR

HILL

DATE

8-7-92

TITLE

SECTIONAL SIDE VIEW

SHEET

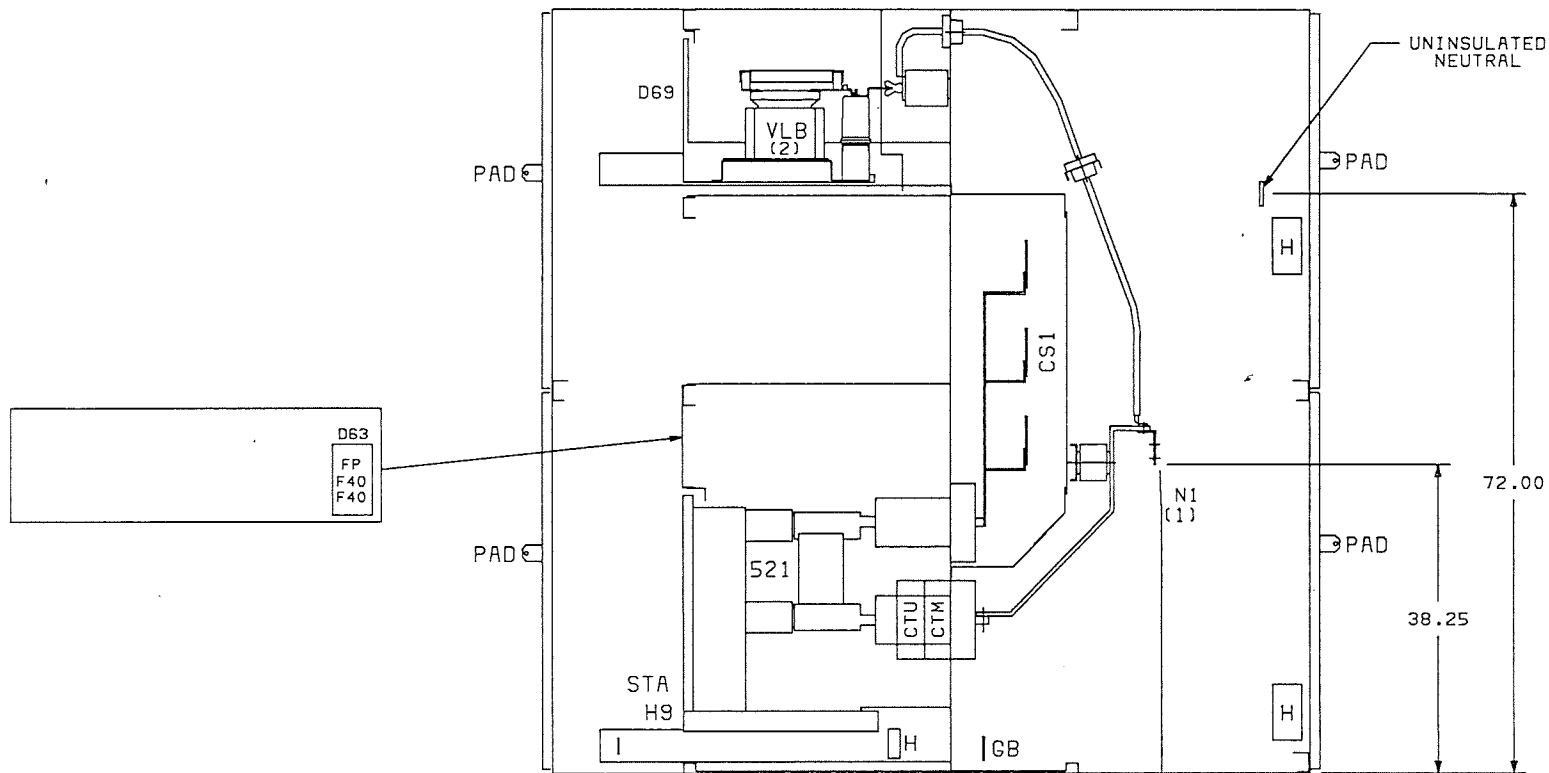
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5 OF 14

6588MSV

REV. 2/3

S.G.1-V.S.5



WEST. V.S. NO.

6

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

TITLE SECTIONAL SIDE VIEW

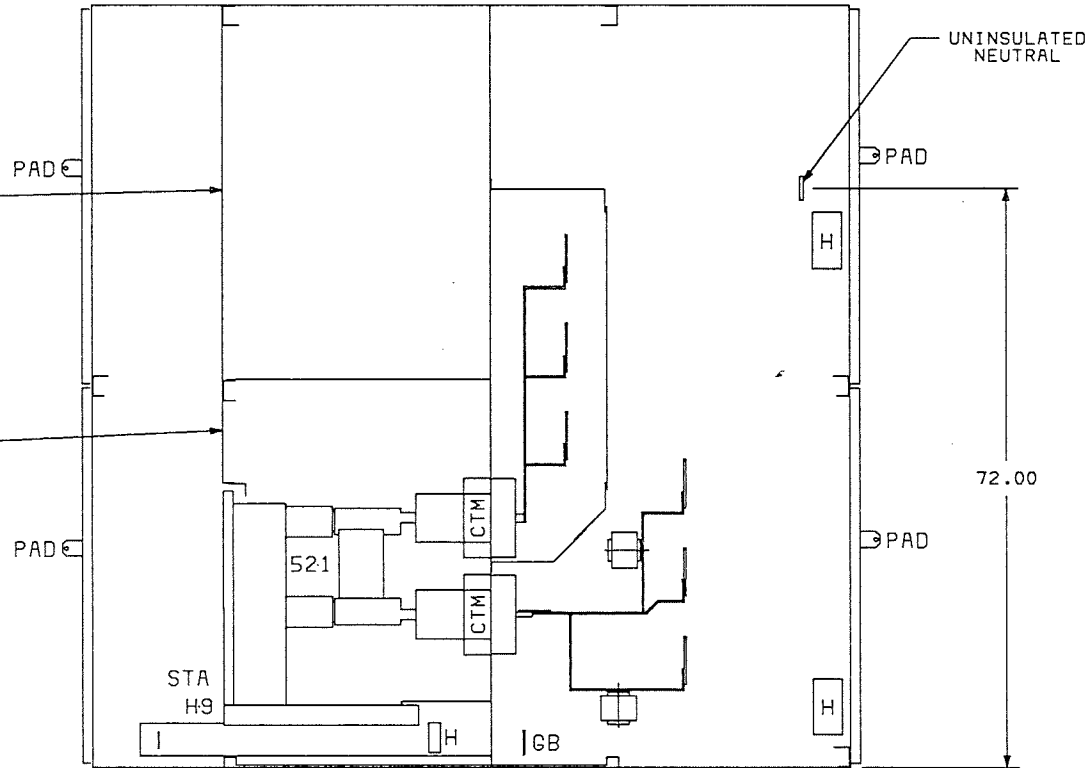
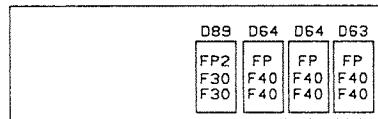
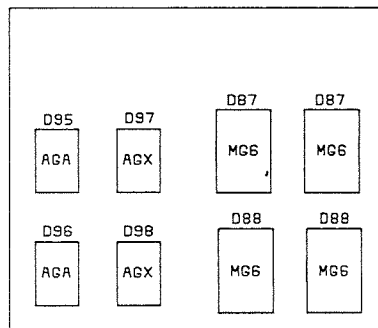
SHEET  
6 OF 14

DWG NO.  
6588MSV

REV 1 2 3

S.G.2-V.S.1





WEST. V.S. NO.

7

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

TITLE SECTIONAL SIDE VIEW

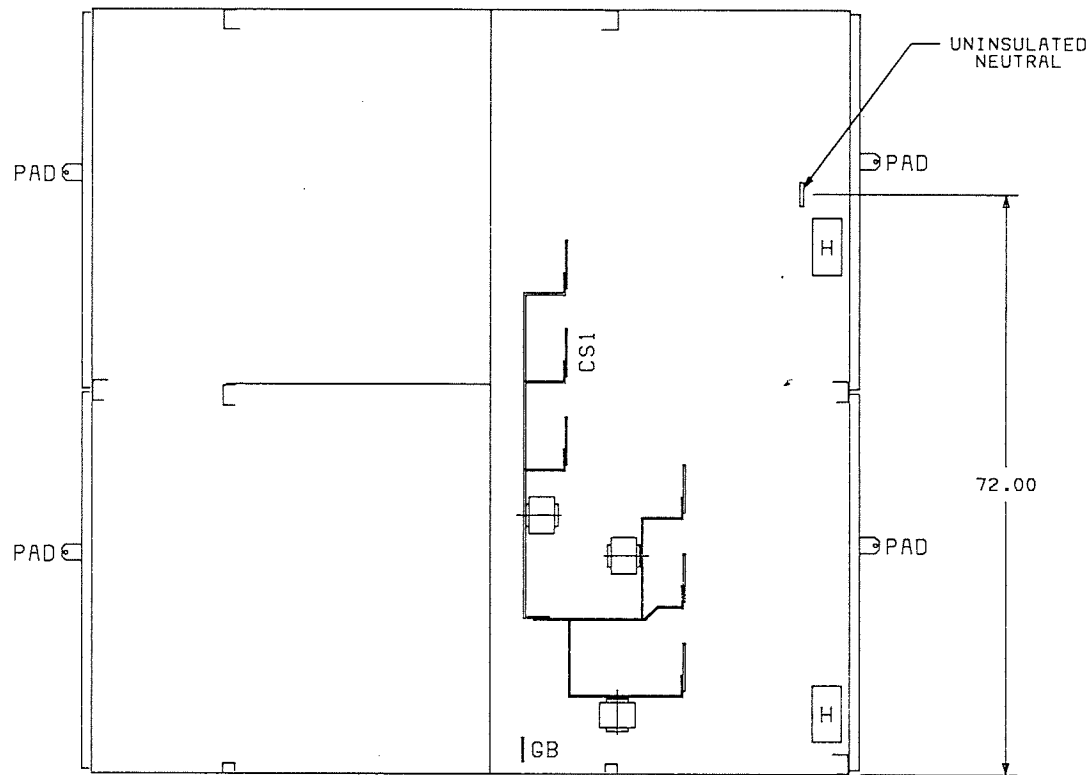
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7 OF 14

DWG NO.

6588MSV

REV 1 2 3

S.G.2-V.S.2



WEST. V.S. NO.

8

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

TITLE SECTIONAL SIDE VIEW

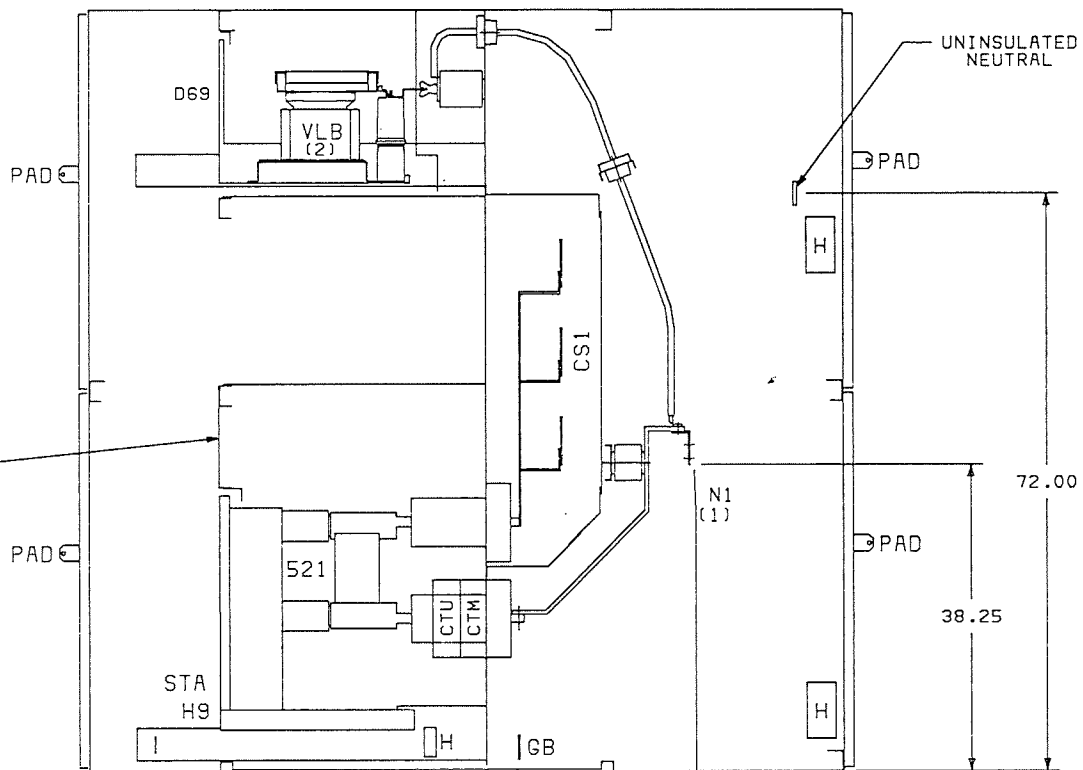
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8 OF 14

DWG NO.

6588MSV

REV 1 2 3

S.G.2-V.S.3



WEST. V.S. NO.

9

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

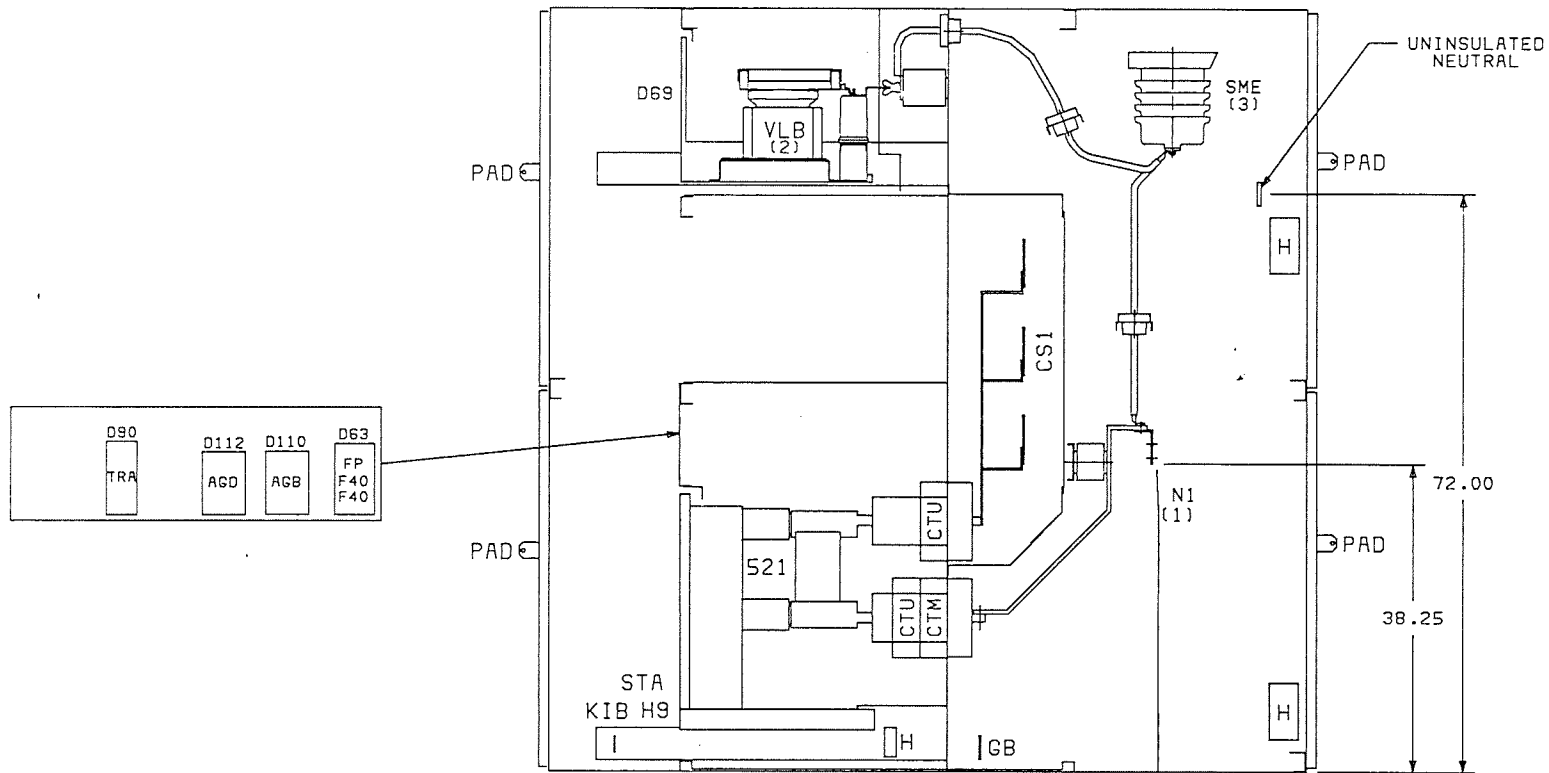
TITLE SECTIONAL SIDE VIEW

SHEET  
9 OF 14

DWG NO.  
6588MSV

REV 1 2 3

S.G.2-V.S.4



WEST. V.S. NO.

10

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#  
BSHR45014-MVA

DFTR  
HULL

DATE  
8-7-92

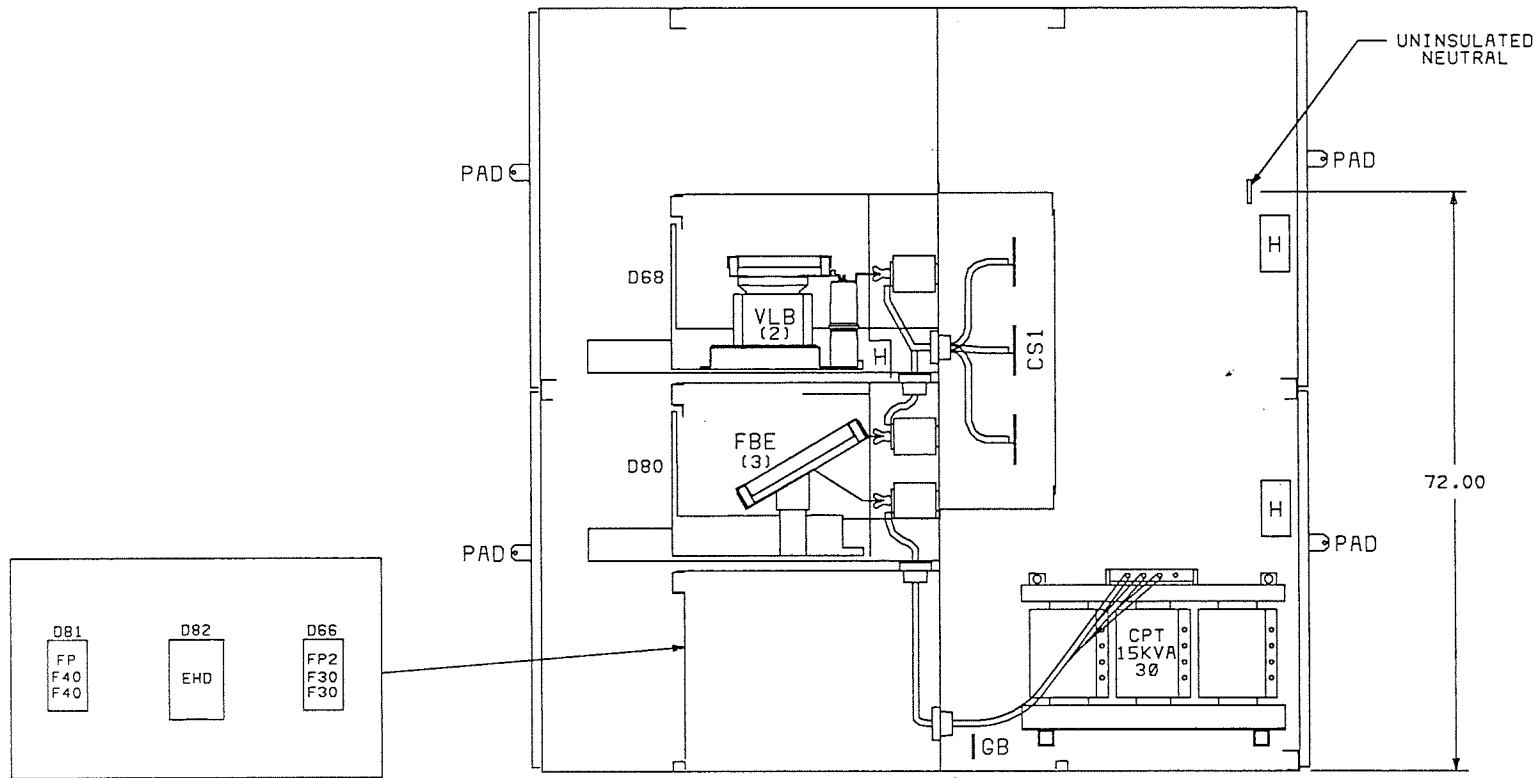
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SHEET  
10 OF 14

DWG NO.  
6588MSV

REV 1 2 3


S.G.3-V.S.1

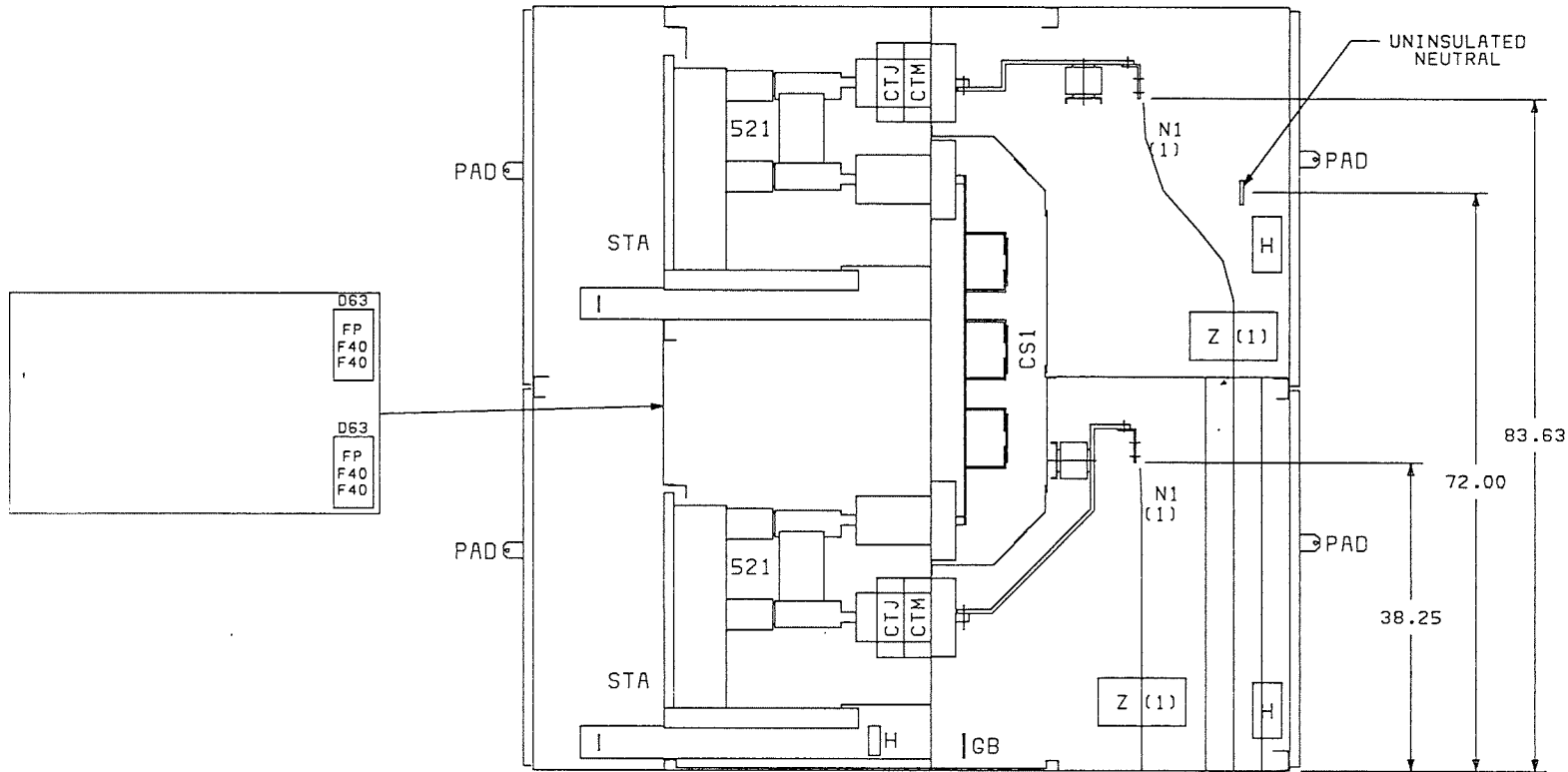


WEST. V.S. NO.

11

CUST. NO.

	WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE SECTIONAL SIDE VIEW
	RI V 1 2 3			S.G.3-V.S.2	SHEET 11 OF 14 DWG NO. 6588MSV



WEST. V.S. NO.

12

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.O.#

BSHR45014-MVA

DFTR

HILL

DATE

8-7-92

TITLE

SECTIONAL SIDE VIEW

SHEET

DWG NO.

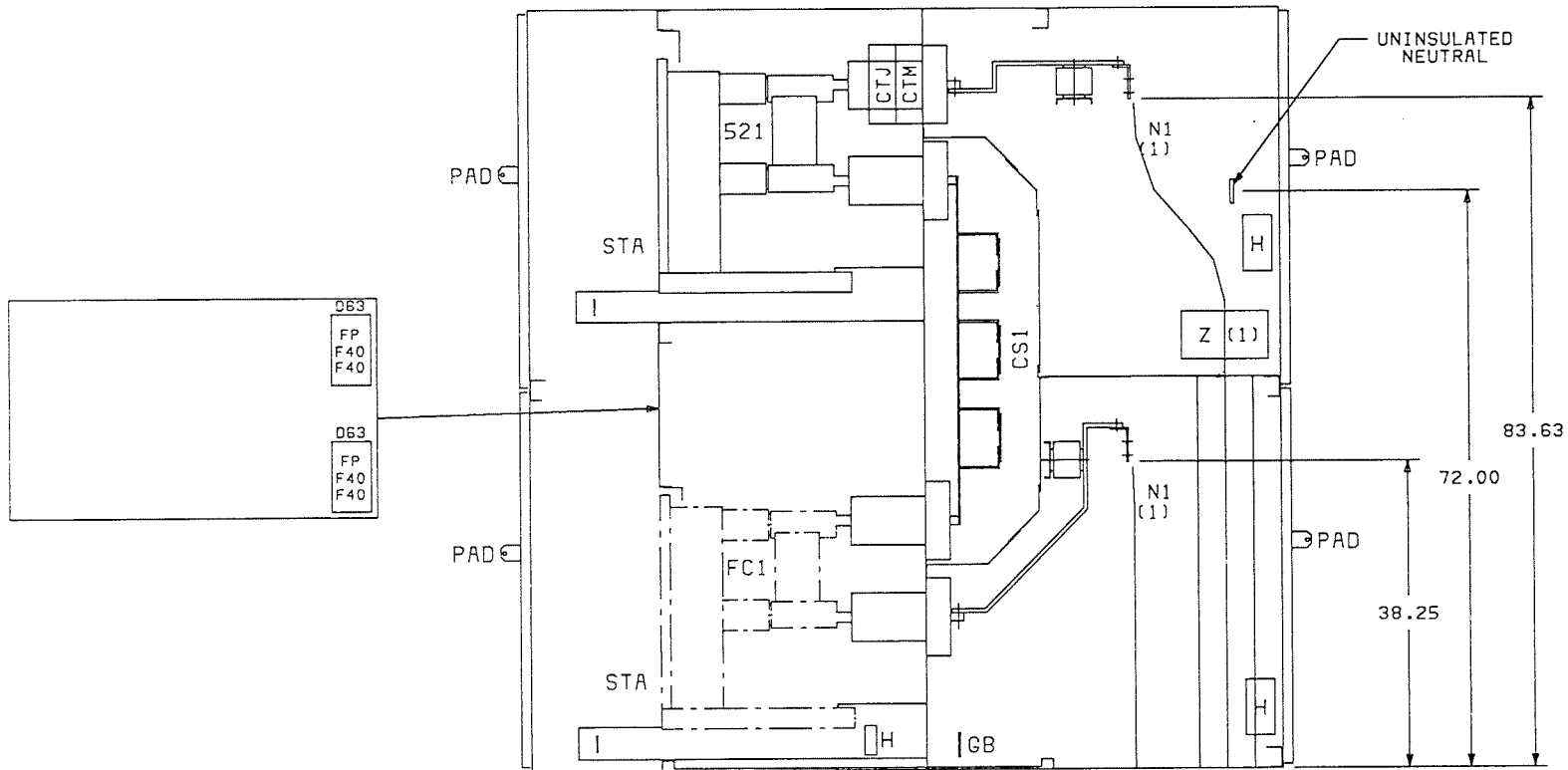
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6588MSV

REV 1 2 3

S.G.3-V.S.3



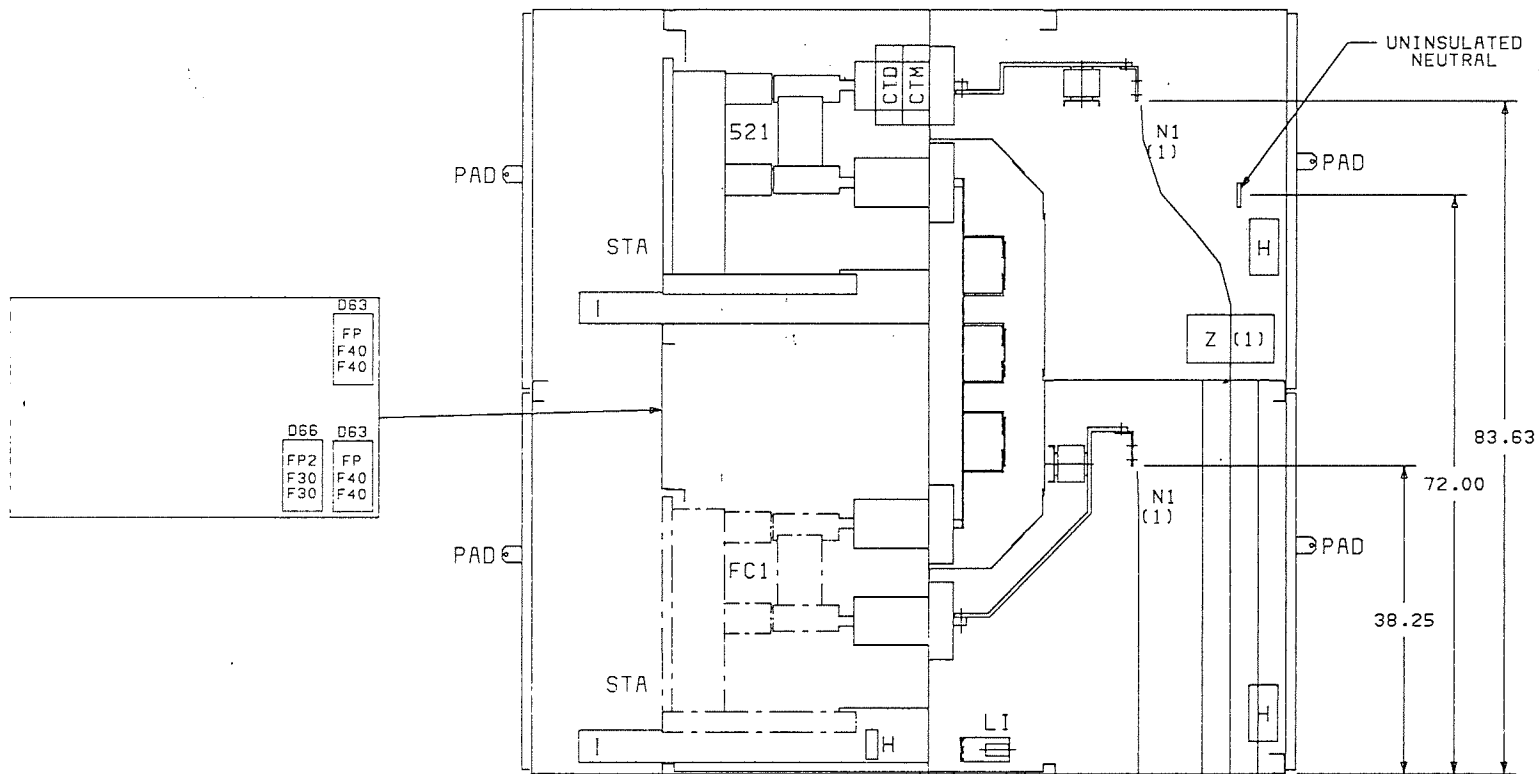


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13

CUST. NO.

	WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE SECTIONAL SIDE VIEW	
					SHEET 13 OF 14	DWG NO. 6588MSV
REV: 2				S.G.3-V.S.4		



WEST. V.S. NO.

14

CUST. NO.



WESTINGHOUSE  
GREENWOOD, SC

G.C.#  
BSHR45014-MVA

DFTR  
HILL

DATE  
8-7-92

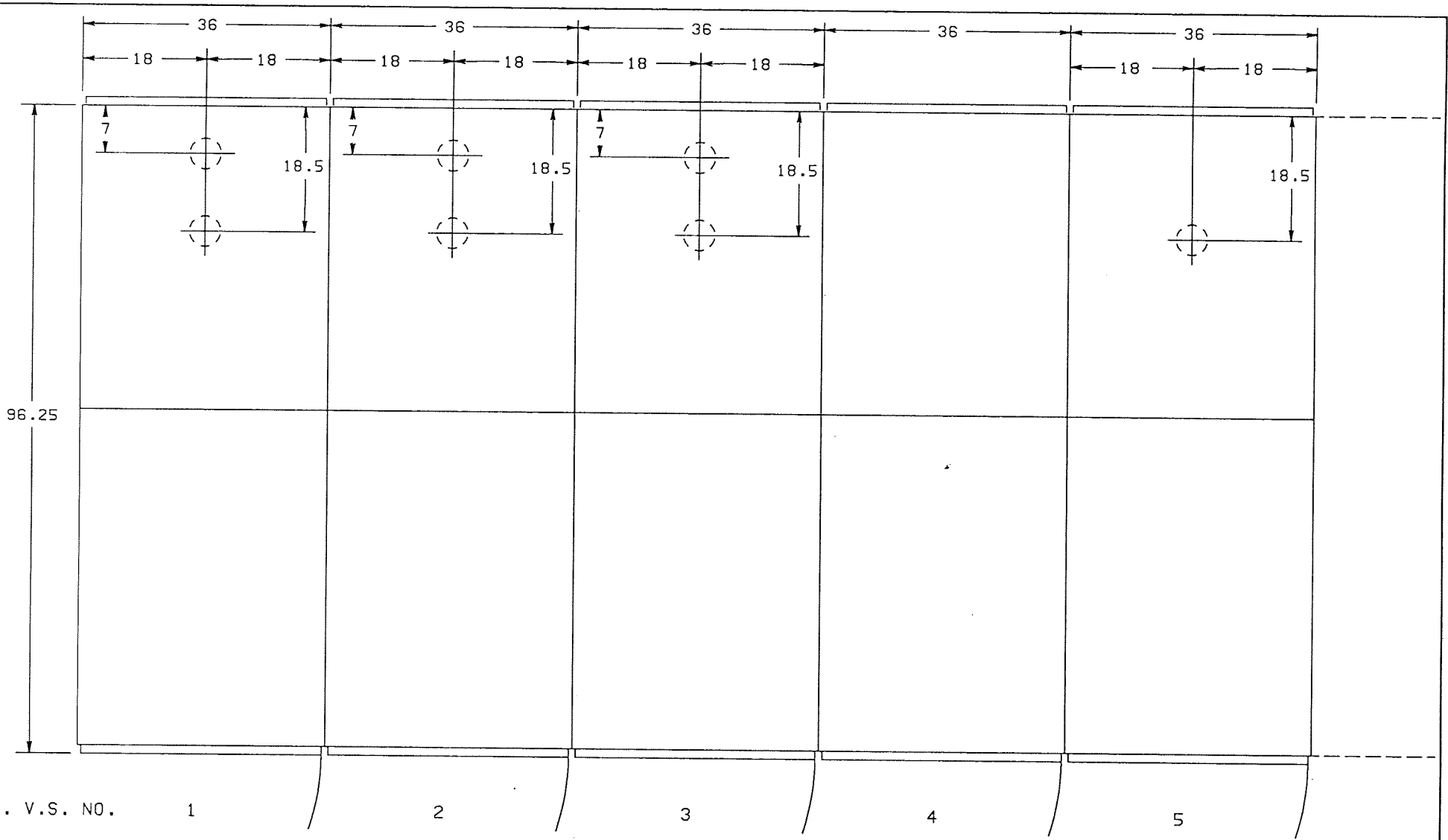
TITLE SECTIONAL SIDE VIEW

SHEET  
14 OF 14

DWG NO.  
6588MSV

REV: 2 3


S.G.3-V.S.5

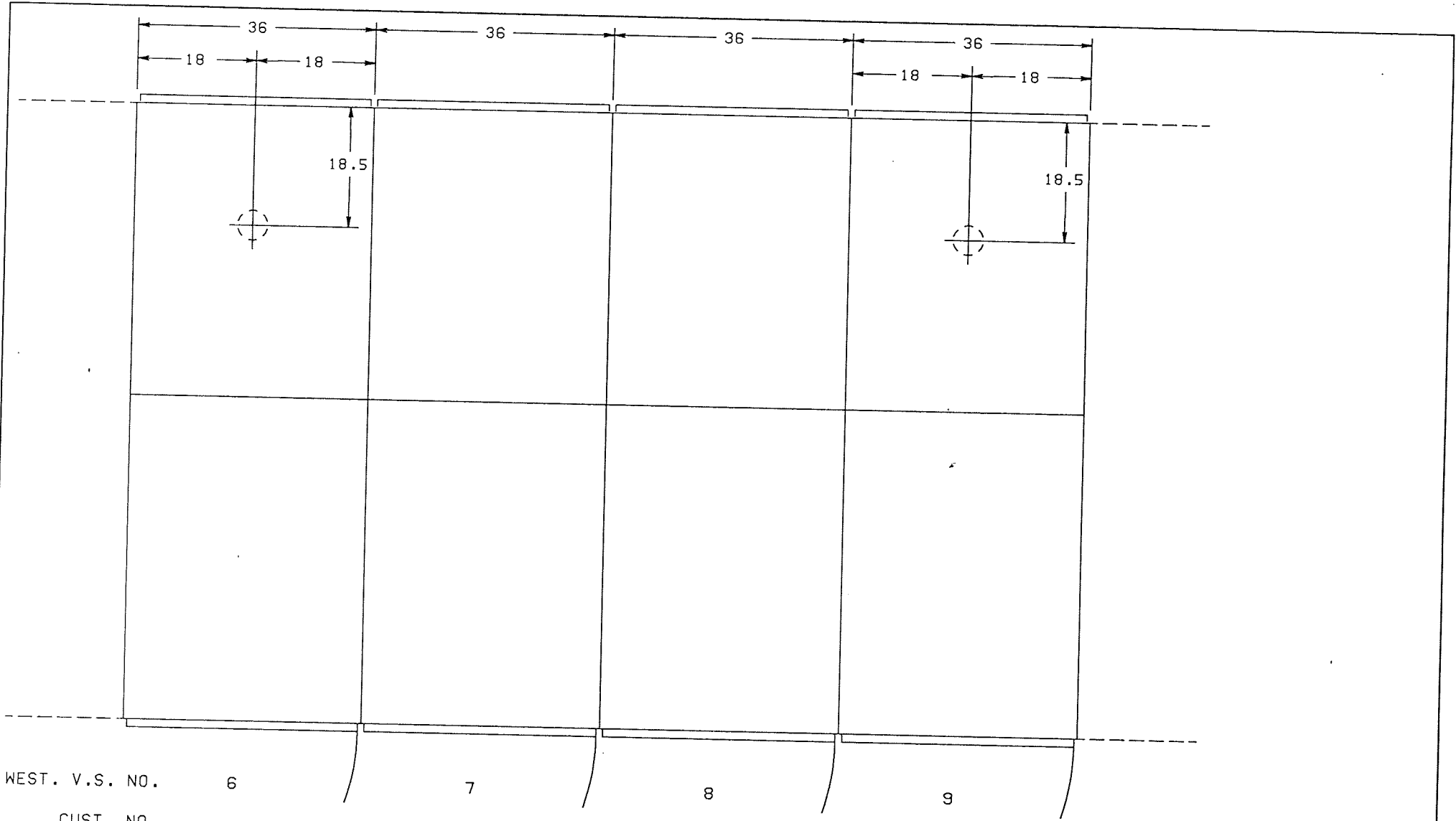


WEST. V.S. NO.	1	2	3	4	5
CUST. NO.					
* APPROX WT.-LBS.	2400	2400	2400	2000	2300

\*-VERTICAL SECTION WEIGHT DOES NOT INCLUDE BREAKER WEIGHT.

FOR TYPICAL BASE PLAN SEE DRAWING 6533C07  
 PRIMARY CONDUITS MUST NOT EXCEED 7 I.P.S. AND BE LOCATED WITHIN TOL. OF ± .25 INCH.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92	TITLE BASE PLAN	
				SHEET 1 OF 3	DWG NO. 6588MBP
REV 1 2	S.G.1				



WEST. V.S. NO.      6  
 CUST. NO.

7

8

9

\* APPROX WT.-LBS.    2300


2200

2000

2300

\*-VERTICAL SECTION WEIGHT DOES NOT INCLUDE BREAKER WEIGHT.

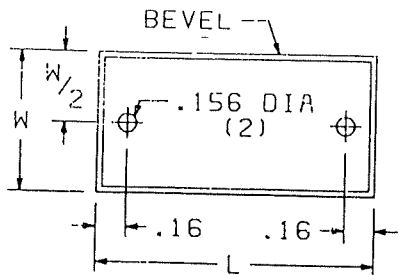
FOR TYPICAL BASE PLAN SEE DRAWING 6533C07  
 PRIMARY CONDUITS MUST NOT EXCEED 7 I.P.S. AND BE LOCATED WITHIN TOL. OF ± .25 INCH.

 WESTINGHOUSE GREENWOOD, SC	G.O.# BSHR45014-MVA	DFTR HILL	DATE 8-7-92		TITLE BASE PLAN	
			REV 1   2	SHEET 2 OF 3		DWG NO. 6588MBP

S.G.2



# CIRCUIT NAMEPLATES



NAMEPLATE SIZE	L	W	THK
<input checked="" type="checkbox"/> STD	4.32	1.0	.062
<input type="checkbox"/> SPECIAL			

### NAMEPLATE COLORS:

STD, WHITE WITH BLACK LETTERS

BLACK WITH WHITE LETTERS

RED WITH WHITE LETTERS

\_\_\_\_\_

STD SCREWS

\_\_\_\_\_

.20 HIGH LETTERS  
18 CHAR/LINE, STD  
22 CHAR/LINE, 80% COND

\_\_\_\_\_ HIGH LETTERS

## LOCATE CIRCUIT NAMEPLATES PER "MHP" AND "MSV" DRAWINGS.

N.P. NO.	V.S. NO.	FIRST LINE	SECOND LINE	QTY	
				E	I
C1	1A	5KV CHILLER No. 2		1	
C2	1B	5KV CHILLER No. 1		1	
C3	2A	5KV LOOP FEEDER	LA4 (FUTURE)	1	
C4	2B	5KV LOOP FEEDER	LA3	1	
C5	3A	5KV LOOP FEEDER	LA2	1	
C6	3B	5KV LOOP FEEDER	LA1	1	
C7	4A	BUS PTS (2)		1	
C8	4B	3Ø CPT 15KVA		1	
C9	5A	PTS FOR INC.	LINE No. XF1	1	
C10	5B	MAIN TRANSFORMER	No. XF1	1	
C11	6A	PTS FOR PARR SWGR	FEEDER No. 1	1	
C12	6B	PARR. SWGR FEEDER	No. 1	1	
C13	7A	AUX. COMPARTMENT		1	
C14	7B	TIE BREAKER		1	
C15	8A	AUX. COMPARTMENT		1	
C16	8B	BUS TRANSITION	1200A	1	
C17	9A	PTS FOR PARR. SWGR	FEEDER No. 2	1	
C18	9B	PARR SWGR FEEDER	No. 2	1	
C19	10A	PTS FOR INC.	LINE No. XF2	1	
C20	10B	MAIN TRANSFORMER	No. XF11	1	
C21	11A	BUS PTS (2)		1	
C22	11B	3Ø CPT 15KVA		1	

E = EXTERIOR  
I = INTERIOR  
\* = BLANK N.P.

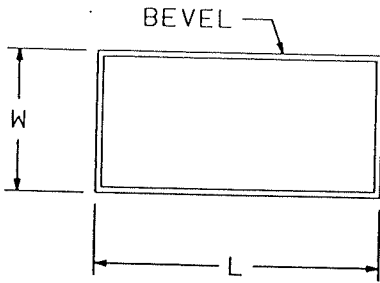
SHEET	DWG NO
1 OF 4	6588 MNP

REV 1 3





# DEVICE NAMEPLATES



NAMEPLATE SIZE	L	W	THK
<input checked="" type="checkbox"/> STD	2.50	.75	.062
<input type="checkbox"/> SPECIAL			

### NAMEPLATE COLORS:

STD, WHITE WITH BLACK LETTERS

BLACK WITH WHITE LETTERS

RED WITH WHITE LETTERS

\_\_\_\_\_

.20 HIGH LETTERS  
13 CHAR/LINE, STD  
17 CHAR/LINE, 80% COND

\_\_\_\_\_ HIGH LETTERS

## LOCATE DEVICE NAMEPLATES PER "MHP" AND "MSV" DRAWINGS.

NO.	ENGRAVING	QTY.		NO.	ENGRAVING	QTY.		NO.	ENGRAVING	QTY.		NO.	ENGRAVING	QTY.	
		E	I			E	I			E	I			E	I
D1	23			D26	51/50 Ø2			D51	87B Ø2-1	1		D76	51/50/G 2PH & GRD.		
D2	23H			D27	51/50 Ø3			D52	87B Ø3-1	1		D77	32		
D3	23T			D28	55			D53	87G			D78	40		
D4	23X			D29	59			D54	87G Ø1			D79	46		
D5	25	1		D30	59x			D55	87G Ø2			D80	FUSES FOR 3Ø CPT		2
D6	25X			D31	60			D56	87G Ø3			D81	CUSTOMER 40A FUSE		2
D7	27-1	1		D32	62			D57	87M			D82	SEC CPT 50A ØKR		2
D8	27-2	1		D33	67N			D58	87T Ø1-1	1		D83	87T Ø1-2	1	
D9	27/47			D34	67 Ø1			D59	87T Ø2-1	1		D84	87T Ø2-2	1	
D10	27/47X			D35	67 Ø2			D60	87T Ø3-1	1		D85	87T Ø3-2	1	
D11	27/59			D36	67 Ø3			D61	95C			D86	86T-2	1	
D12	27/59X			D37	74			D62	95T			D87	27X1		2
D13	47			D38	74X			D63	BKR CONTROL 40 AMP FUSE		17	D88	27X2		2
D14	47X			D39	79			D64	BUS DIFF CKT 40 AMP FUSE		2	D89	WCKT FUSE 30AMP		1
D15	49/50			D40	81			D65	LIGHTS AND RECEPTACLES			D90	BLUING DIODE		2
D16	50GS	12		D41	81X			D66	SWGR SPACE HEATERS		4	D91			
D17	51G			D42	83			D67	BUS RUN HEATERS			D92	59	2	
D18	51N	2		D43	83-1			D68	BUS V.T.'S		2	D93	32	2	
D19	51 Ø1	16		D44	83-2			D69	LINE V.T.'S		4	D94	81	2	
D20	51 Ø2	16		D45	86-1	1		D70	CPT 5KVA 1Ø			D95	62X1		1
D21	51 Ø3	16		D46	86B-1	1		D71	CPT 10KVA 1Ø			D96	62X2		1
D22	51/50 3PH			D47	86-2	1		D72	CPT 15KVA 3Ø		2	D97	62XR1		1
D23	51/50G			D48	86M			D73	51/50/N 3PH & GRD			D98	62XR2		1
D24	51/50N			D49	86T-1	1		D74	51/50/G 3PH & GRD			D99	79	2	
D25	51/50 Ø1			D50	87B Ø1-1	1		D75	51/50/N 2PH & GRD			D100	79CO	2	

E = EXTERIOR  
I = INTERIOR  
\* = BLANK N.P.

SHEET DWG NO.

REV 1 - 3

3 OF 4

6588

MNP



# KEY LOCK SCHEDULE

ITEM NO.	QTY.	ITEM MASTER OR CATALOG NUMBER	TYPE	1 PROJ	2 E/W	3 INT	4 LOCK NO.	NOTES	WHERE USED	V.S.#
H01	1	MIF	F	0	E				BKR PAN	5B
H02	1	MIF	F	0	E				BKR PAN	10B

1. SPECIFY BOLT PROJECTION WHEN WITHDRAWN (0", .25", .375", 1", 2", 3").
2. SPECIFY "E" FOR EXTENDED OR "W" FOR WITHDRAWN. WHEN ORDERING MULTIPLE LOCKS, USE SEPARATE LINES FOR EACH LOCK (FIRST LINE FOR LOCK AT MOUNTING BOLT END, SECOND LINE FOR NEXT LOCK, ETC.). FOR TRANSFER LOCKS, USE "E" LOCKS TO INDICATE KEY REMOVABLE AND "W" FOR KEYS HELD. PLACE "E" LOCKS AT MOUNTING BOLT END AND "W" LOCKS IN SUBSEQUENT POSITIONS.
3. INDICATE WHICH LOCKS ARE TO OPERATE BY THE SAME KEY. MANUFACTURER IS TO STAMP LOCKS AND KEYS WITH KEY INTERCHANGE DESIGNATIONS.
4. LEAVE THIS COLUMN BLANK. SUPPLIER WILL ASSIGN LOCK NUMBERS.

NOTES TO USER: *sys works with one key. This bkr must be racked in and closed before the key can be used to close the primary main.*

COORDINATE WITH:		PURCHASE FROM:	
<input type="checkbox"/> WESTINGHOUSE SUMTER	<input type="checkbox"/> NO COORDINATION	<input type="checkbox"/> SUPERIOR	
<input type="checkbox"/> WESTINGHOUSE ST. LOUIS	<input checked="" type="checkbox"/> OTHER <i>VCP-W Primary</i>	<input checked="" type="checkbox"/> ABB	
<input type="checkbox"/> ABB SOUTH BOSTON	<input type="checkbox"/> _____	<input type="checkbox"/> OTHER	
		<i>7146587</i>	

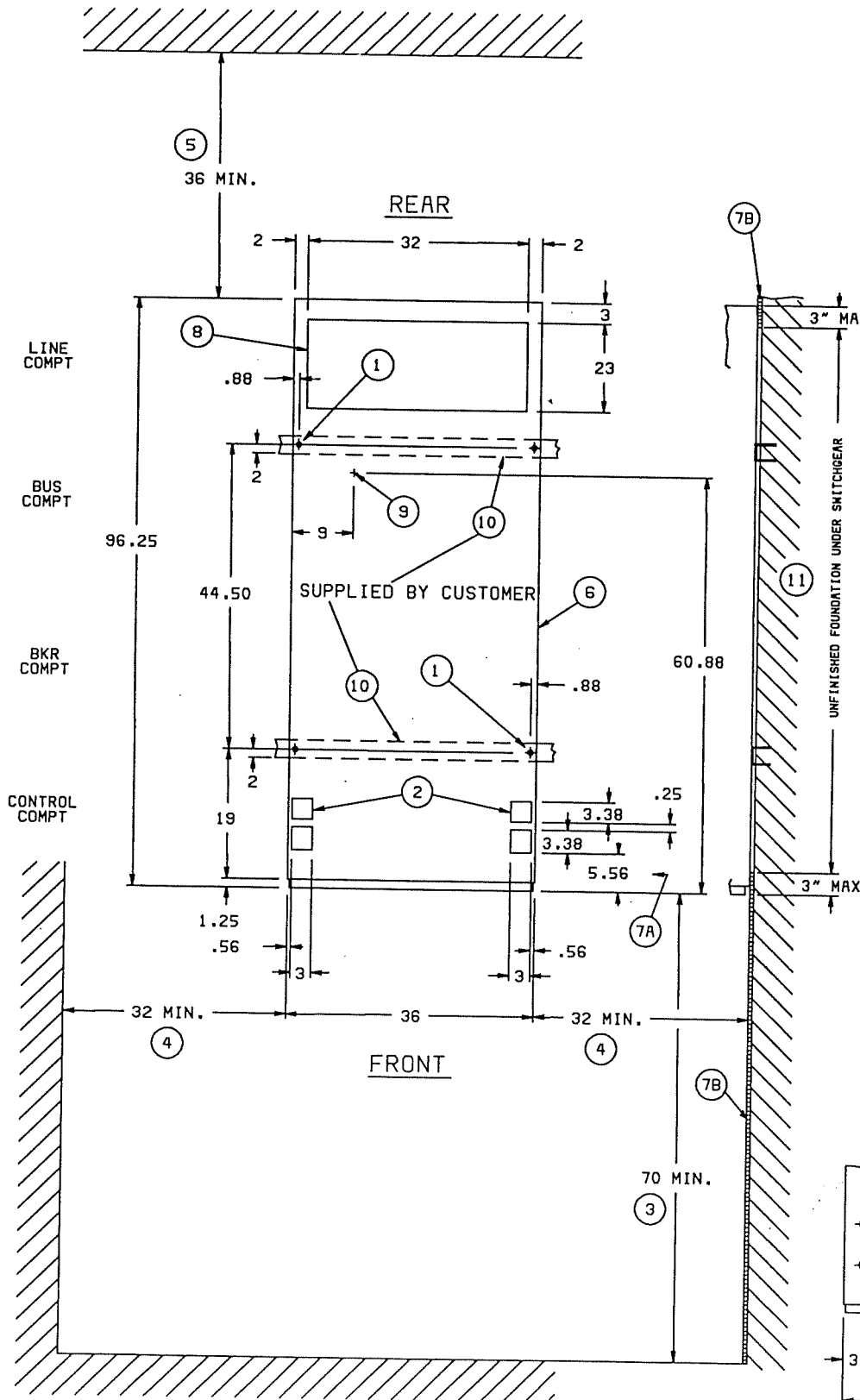
LOCATION: *FRACKVILLE, PA.*

ULTIMATE USER: *SCI MAHONEY PRISON*

G.O.# *BSHR45014*

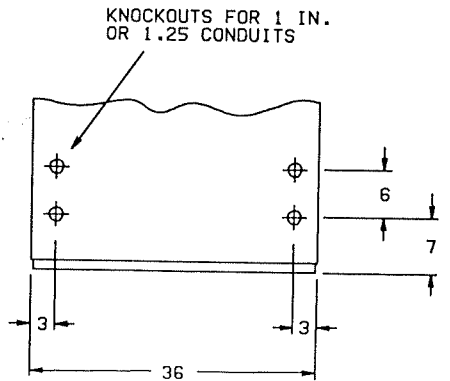
REV. 1 | ENGR: *R. FIELDS* | DATE: *4 7 92* | SHEET 1 OF 1 | *6588MLK*

# TYPICAL INDOOR BASE PLAN



- ① SUGGESTED LOCATIONS FOR .50 INCH BOLTS OR WELDING
- ② SECONDARY CONTROL WIRING CONDUIT OPENINGS, CONDUIT PROJECTION MUST NOT EXCEED 1 INCH.
- ③ MINIMUM FRONT CLEARANCE WHEN USING ④ PORTABLE LIFTER
- ④ MINIMUM LEFT OR RIGHT HINGED PANEL CLEARANCE
- ⑤ RECOMMENDED MINIMUM REAR CLEARANCE
- ⑥ FINISHED FOUNDATION SURFACE (INCLUDING FLOOR STEEL) MUST BE FLAT AND LEVEL AND IN TRUE PLANE
- ⑦A FLOOR STEEL IF USED, MUST NOT EXCEED THIS DIMENSION UNDER SWITCHGEAR
- ⑦B FINISHED FOUNDATION (WITHIN .06 INCH CLEARANCE) MUST EXTEND UNDER SWITCHGEAR MINIMUM 1.50 INCH TO MAXIMUM 3 INCHES.
- ⑧ PRIMARY (H.V.) CONDUIT PROJECTION MUST NOT EXCEED 2 INCHES. SEE SHOP ORDER BASE PLAN FOR CONDUIT LOCATIONS.
- ⑨ CUSTOMER'S GROUND PROVISIONS, PROVIDED AS SHOWN BY SYMBOL ON SHOP ORDER SECTIONAL SIDE VIEWS
- ⑩ 4 INCH MINIMUM CHANNEL SUPPLIED BY CUSTOMER.
- ⑪ FOUNDATION UNDER SWITCHGEAR MUST BE AT LEAST 3 INCHES THICK.

ALTERNATE SECONDARY CONDUIT LOCATION TOP ENTRANCE



6533C07

1	REVISION
2	NOTE 10 MODIFIED, HILL 9-4-90
3	DECIMAL DIMENSIONS WERE FRACTIONS, ROLLER 9-30-91
4	NOTE 11 WAS NOT ON, ROLLER 10-8-91

DATE	5-4-90	 W.V. SWITCHGEAR ASSEMBLIES <b>Westinghouse Electric Corporation</b> GREENWOOD, S.C. 29649 U.S.A. VAC-CLAD-H SWGR TYPICAL INDOOR BASE PLAN (36 WIDE 96.25 DEEP) WITH FLOOR CHANNELS
DATE	5-4-90	
DATE		
DIMENSIONS ARE IN INCHES		DWG NO. 6533C07

46-313C07