

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.

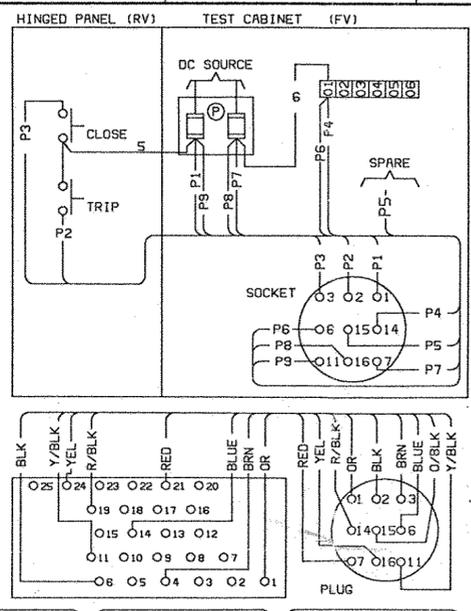
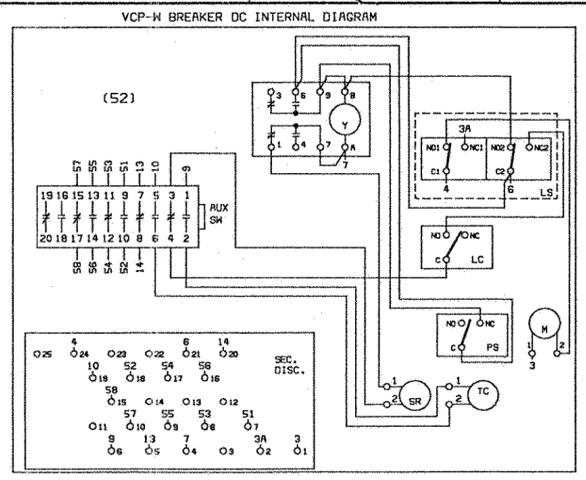
Item 10 - Section 261313 Appendix Items: Existing 5KV original switchgear control diagrams and original submittal drawings are attached to this addendum for reference.

DRAWING CHANGES – ALL CONTRACTS

Item 1 -

| IDENT | TYPE | DESCRIPTION |
|---------|--------|---|
| CS | H2 | CONTROL SWITCH |
| H | | TRUCK OPERATED CELL LIMIT SWITCH (TOC) SHOWN FOR BREAKER IN TEST POSITION |
| IQDP2 | IQDP2 | LINE METERING & VOLTAGE PROT. SYSTEM. |
| IQD | IQDATA | LINE METERING SYSTEM. |
| S | | 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 | VCPM | 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 | XFRM. DIFFERENTIAL PROTECTIVE RELAY |

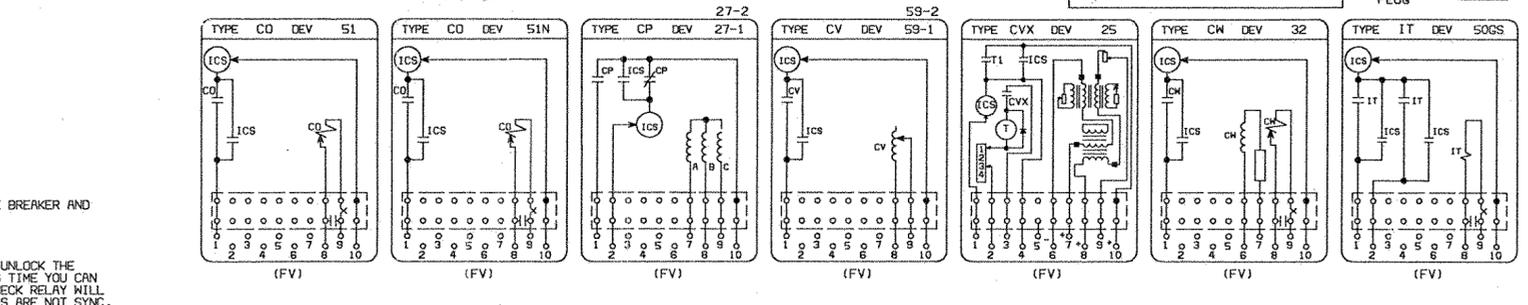
| DRAWING DESCRIPTION | DRAWING NUMBER | NO. OF SHEETS | REV. NUMBER |
|--------------------------------|----------------|---------------|-------------|
| 1 MECHANICAL MASTER DWG. LIST | 6588EMD | | REF |
| 2 ELECTRICAL MASTER DWG. LIST | | | |
| 3 ELECTRICAL LIST OF APPARATUS | | | |
| 4 ELECTRICAL 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 | | |
| A6-B6 | X | X | | |
| A7-B7 | | | X | X |
| C5-D5 | X | X | | |
| C6-D6 | | | X | X |
| C7-D7 | X | X | | |
| E5-F5 | | | X | X |
| E6-F6 | X | X | | |
| E7-F7 | | | X | X |

| TYPE | CO | DEV | NO. |
|------------------|----|-----|------|
| TYPE CO DEV 51 | | | 51 |
| TYPE CO DEV 51N | | | 51N |
| TYPE CP DEV 27-1 | | | 27-1 |
| TYPE CV DEV 59-1 | | | 59-1 |
| TYPE CVX DEV 25 | | | 25 |
| TYPE CW DEV 32 | | | 32 |
| TYPE IT DEV 50GS | | | 50GS |



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.

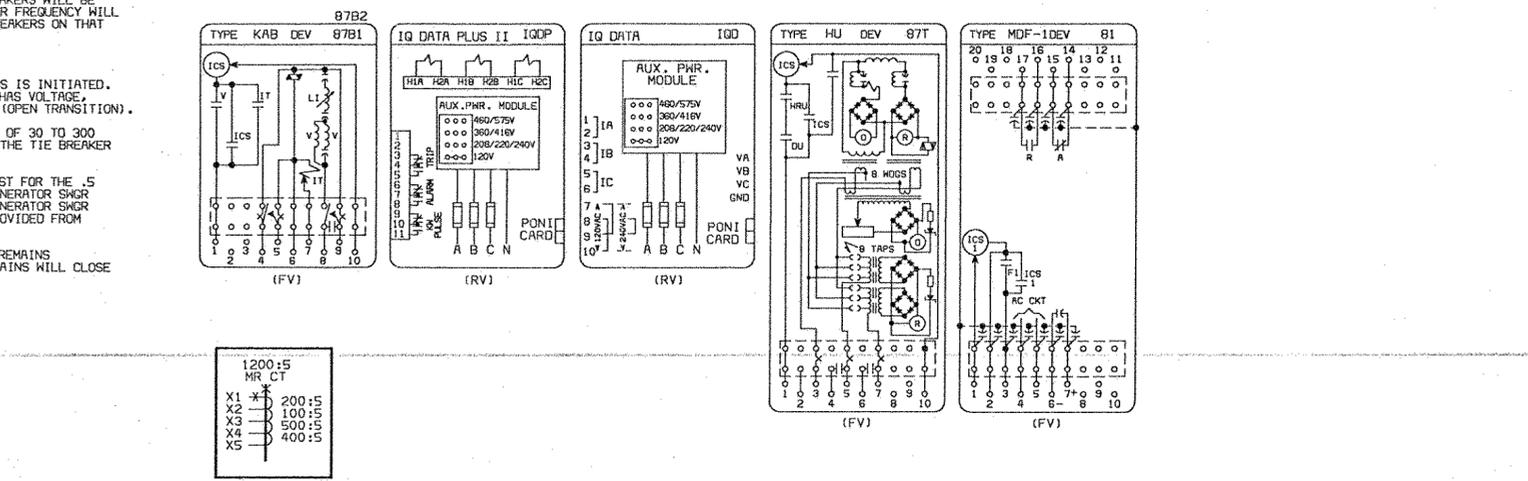
AUTOMATIC MODE (DEVICE 43 IN "AUTO" POSITION)

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).

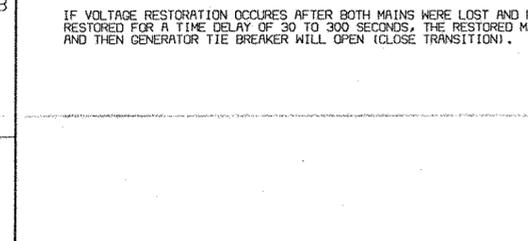
IF VOLTAGE IS LOST ON BOTH MAINS SIMULTANEOUSLY, AND REMAIN LOST FOR THE .5 TO 5 SECONDS DELAY, THEN BOTH MAINS WILL TRIP, THE SELECTED GENERATOR SMGR FEEDER(S) WILL CLOSE WHEN A SIGNAL HAS BEEN PROVIDED BY THE GENERATOR SMGR SUPPLIER. THE TIE BREAKER WILL NOT CLOSE UNLESS A SIGNAL IS PROVIDED FROM THE 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 | | |
| A5-B5 | | | X |
| A6-B6 | X | | |
| A7-B7 | | | X |
| C5-D5 | X | | |
| C6-D6 | | | X |
| C7-D7 | X | | |



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

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.

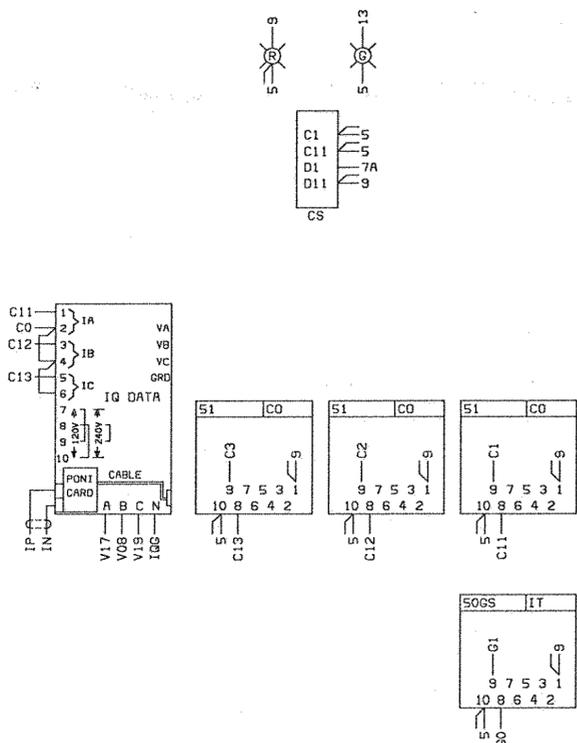
NOTE TO SHOP: DUMMY FUSE SHORT CKT. TERM BLK PULL FUSE HEAVY DUTY TERM BLK

| | |
|---------------------------------------|--|
| DPTH D. NGUYEN DATE 08/18/92 | Westinghouse |
| ENO R. FIELDS DATE 6/24/92 | TITLE SCI MAHONEY PRISON FRACKVILLE, PA. |
| 6588EMD | INDOOR VACUUM SWITCHGEAR ELECTRICAL MASTER DRAWING 50VCP-M250 SHEET NO. 1 OF 1 DWG NO. 6588EMD |

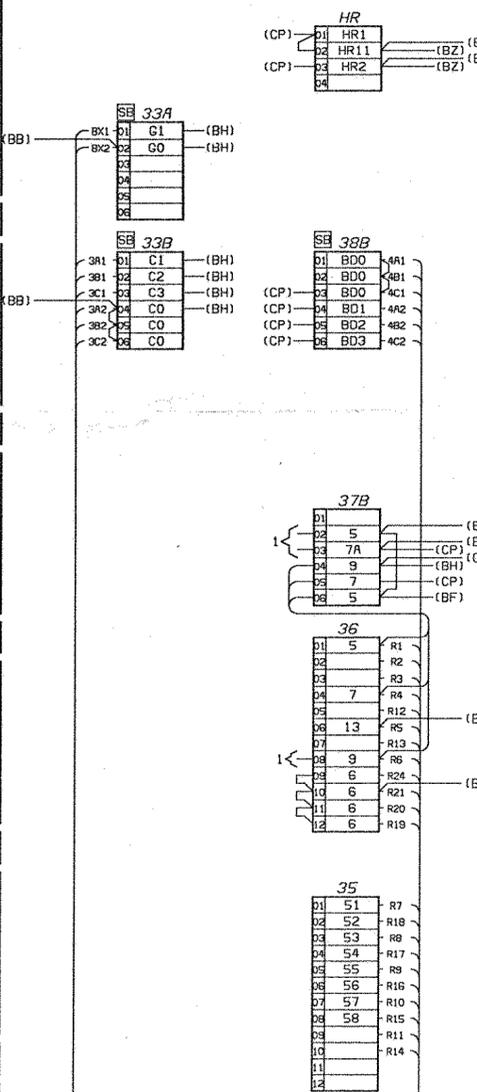
VERTICAL SECTION # 1
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

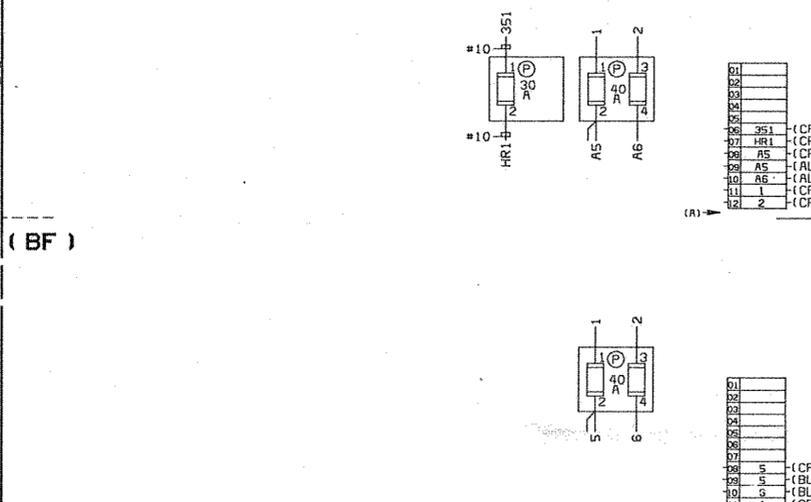
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(BL)

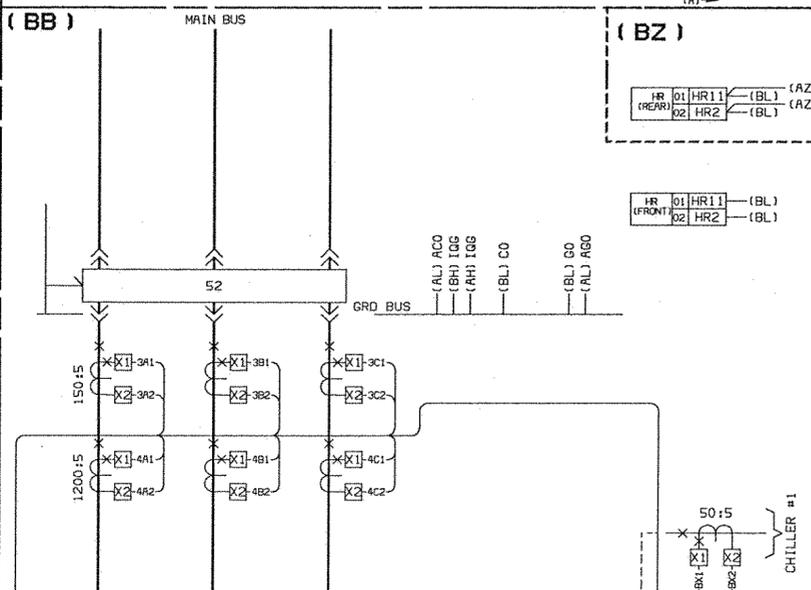


(AF)

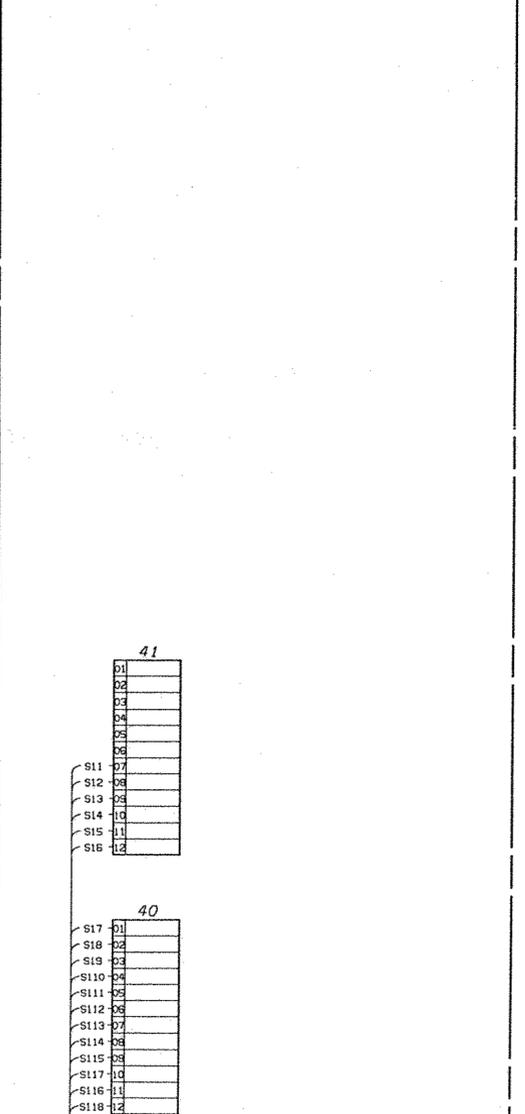


(BF)

(BB)



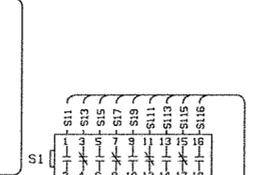
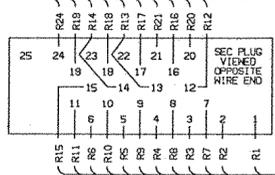
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REMOTE GENERATOR CONTROL ①

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. (P) - PULL FUSE (H) - HEAVY DUTY TERM BLK

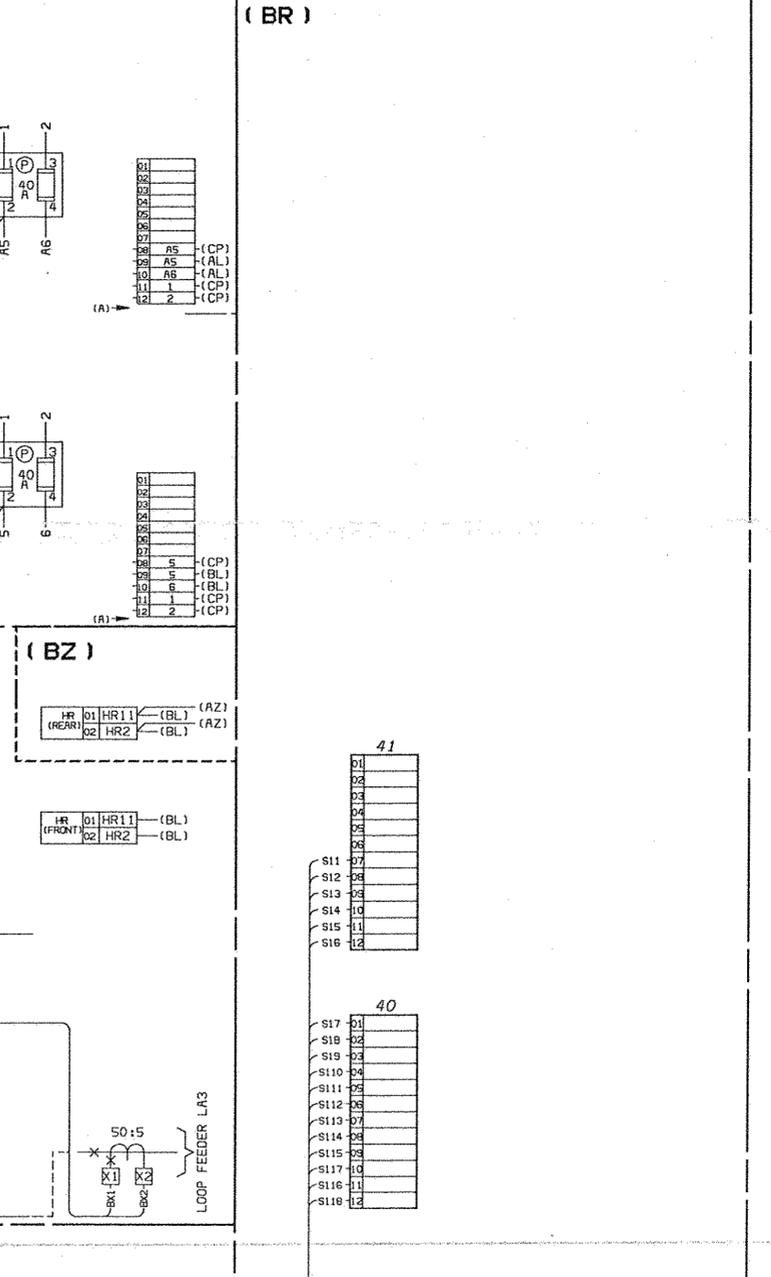
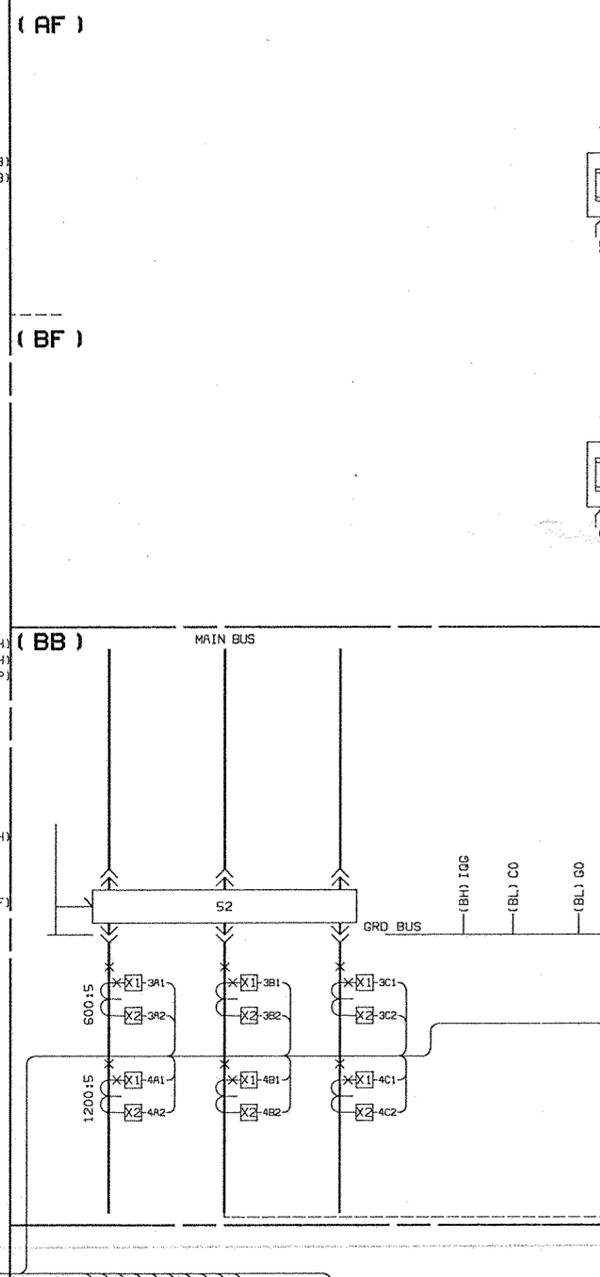
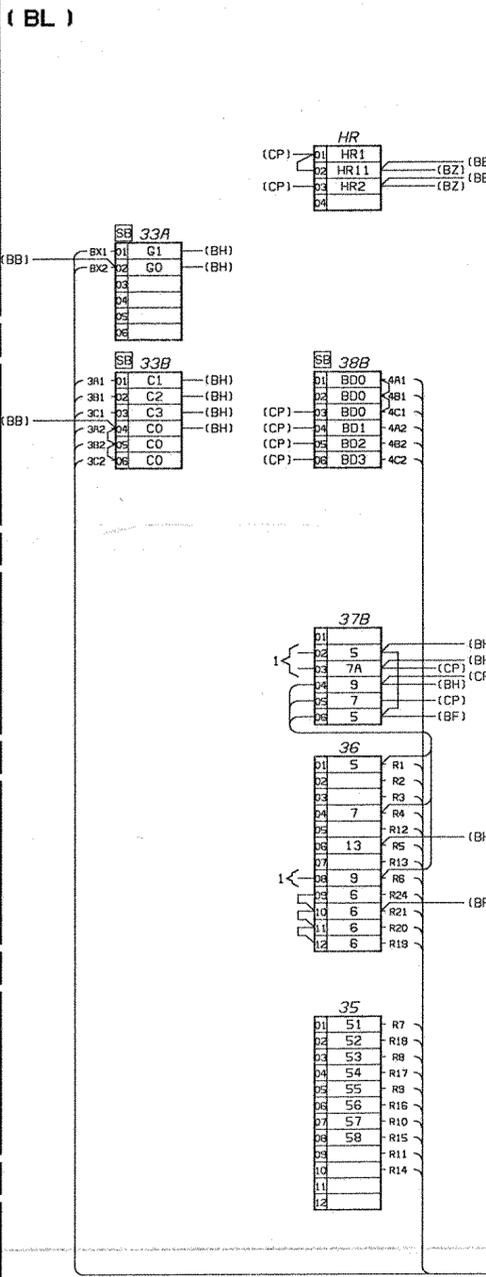
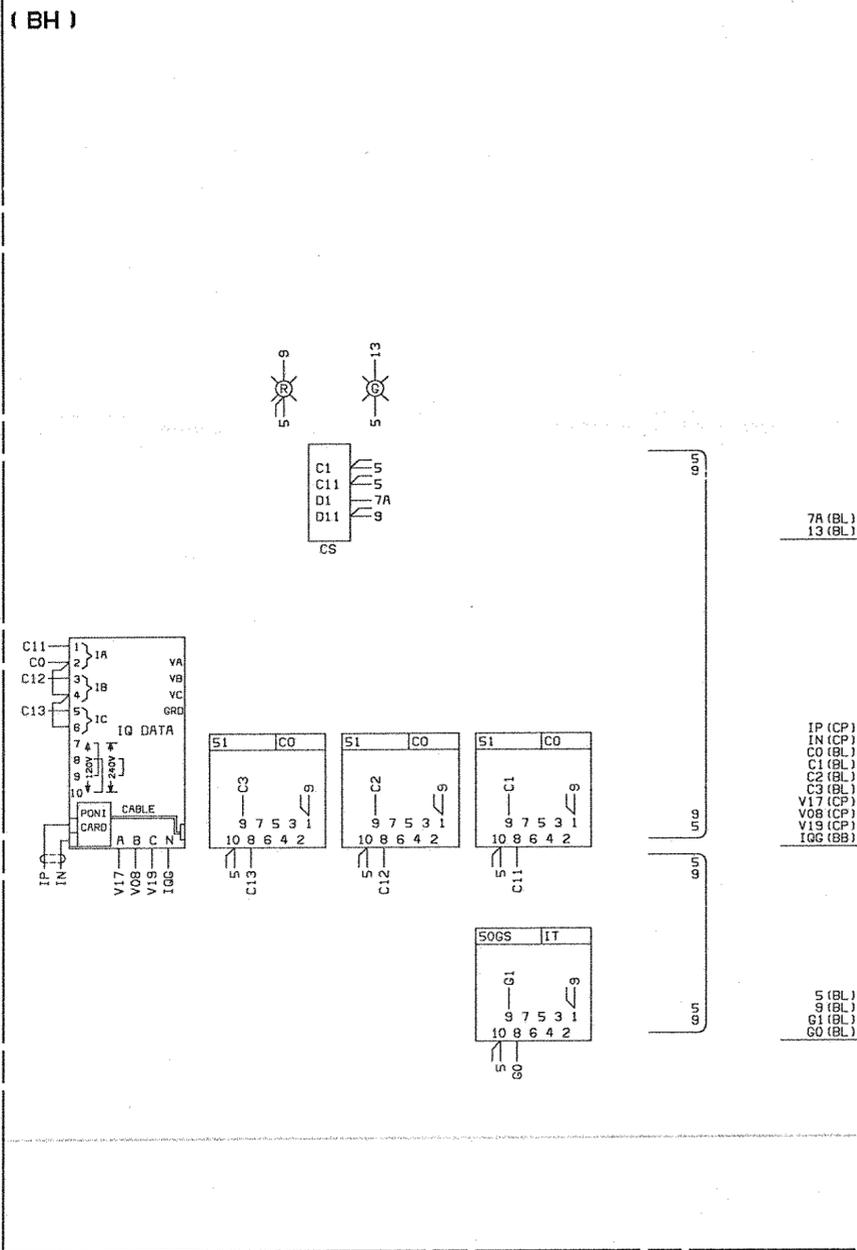
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| | | | |
|---|-------------------------|--|--|
| DFTN WALLACE | DATE 01/27/92 | Westinghouse | |
| ENG R.FIELDS | DATE | TITLE SCI MAHONEY PRISON FRACKVILLE, PA. | |
| DESCRIPTION INDOOR VAC-LAD-W SWITCHGEAR | | 50VCP-N250 | |
| CONNECTION DIAGRAM VERT. SECT. 1 | | AUC 2 934 | |
| SIZE | FSCH NO | DWG NO | |
| SHEET 1 OF 2 | | 6588H01 | |
| | | 6082 | |

5.0.71Y6588
C.O.BSR-4501.4
CHANGE

VERTICAL SECTION # 2
LOWER COMPARTMENT

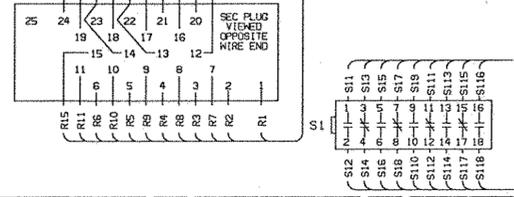
HINGED PANEL (REAR VIEW)



REMOTE GENERATOR CONTROL ①

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 | 8/27/82 | Westinghouse | |
| BY | WALLACE | TITLE | |
| DATE | | SCI MAHONEY PRISON | |
| BY | R.FIELDS | FRACKVILLE, PA. | |
| DATE | | INDOOR VACCLAD-W SWITCHGEAR | |
| BY | R.MATSKO | CONNECTION DIAGRAM VERT. SECT. 2 | |
| DATE | | 50VCP-W250 | |
| SIZE | FSCR NO | DVG NO | |
| SHEET | 1 OF 2 | 6588H02 | |

1
S.O. 71Y5588
G.O. BSHR-45014
CHANGE

VERTICAL SECTION # 3
LOWER COMPARTMENT

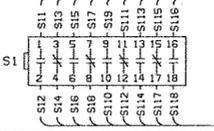
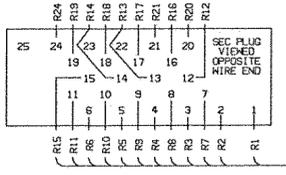
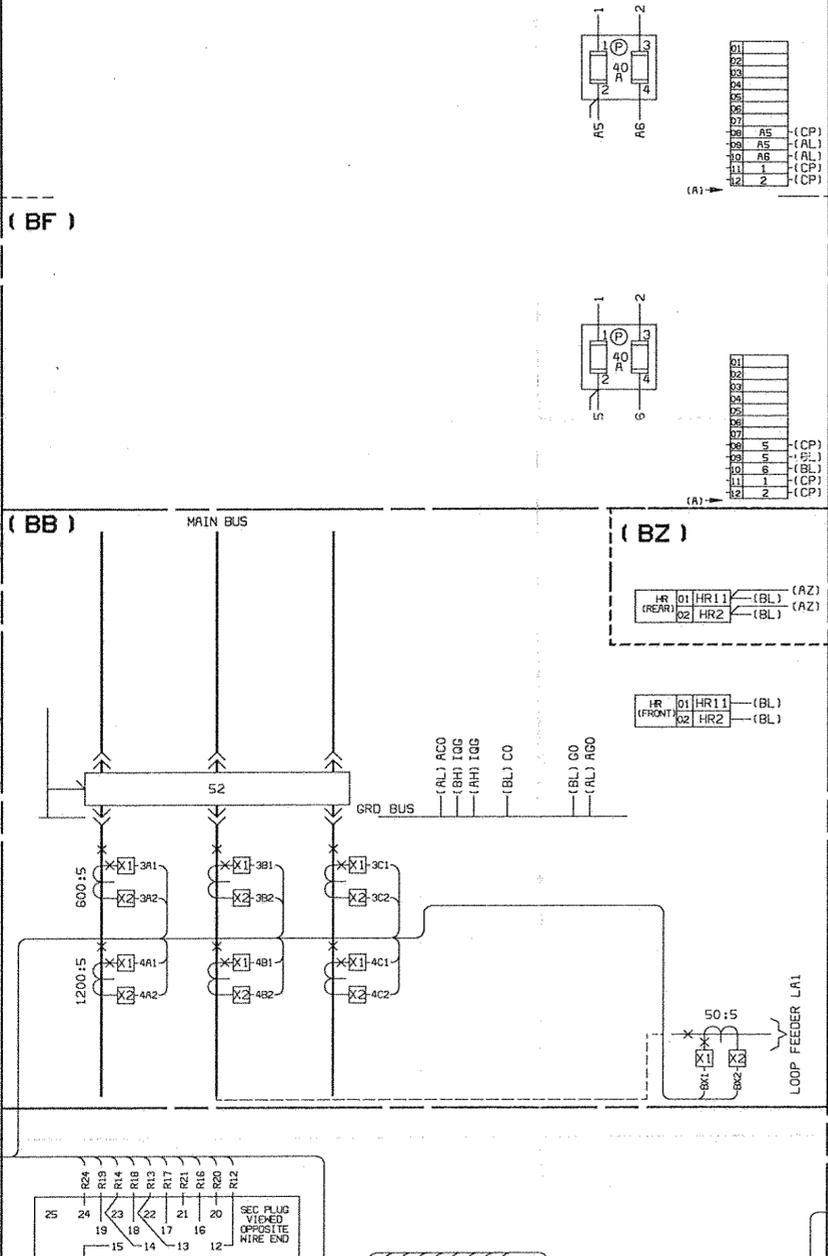
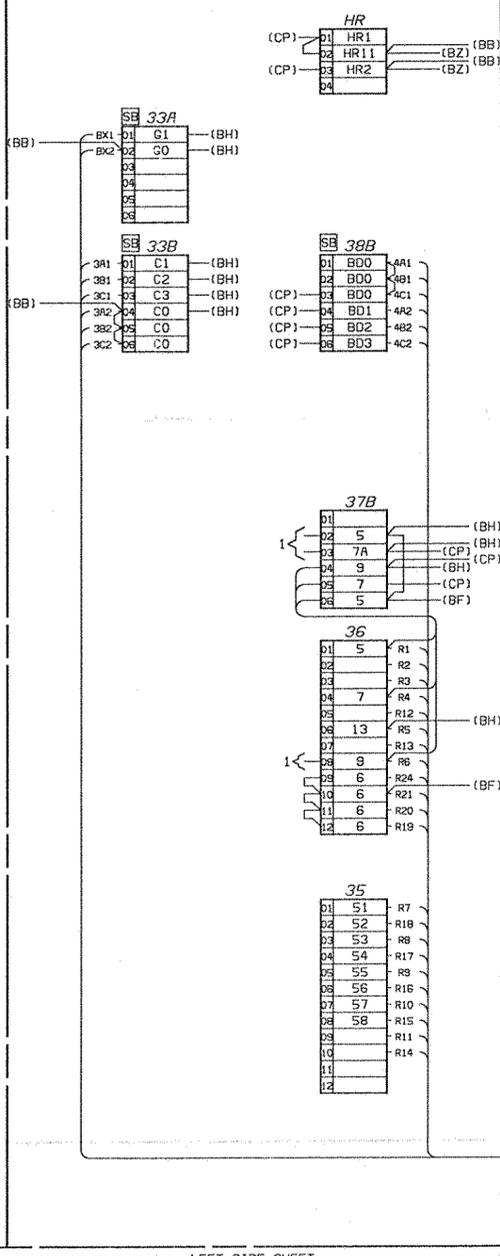
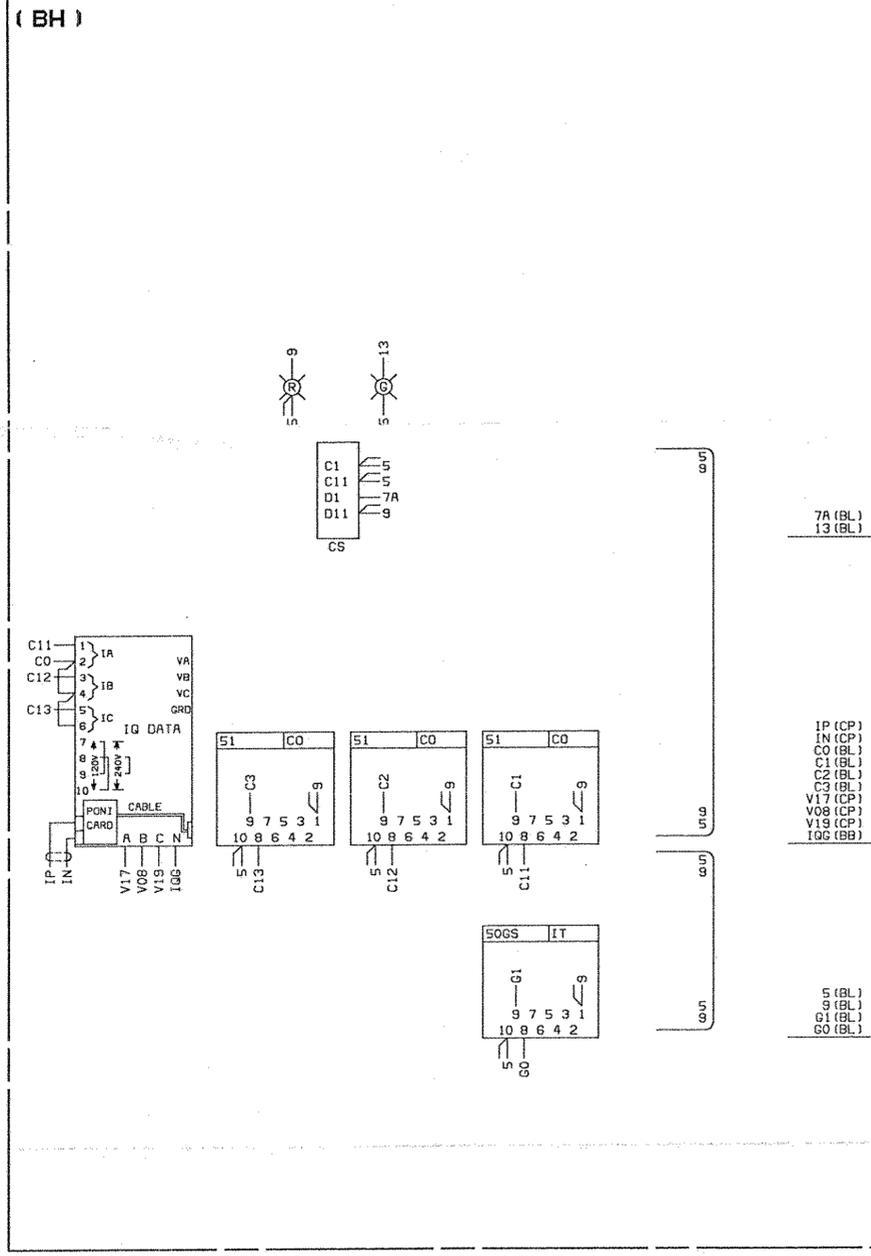
HINGED PANEL (REAR VIEW)

(BH)

(BL)

(AF)

(BR)



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

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

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

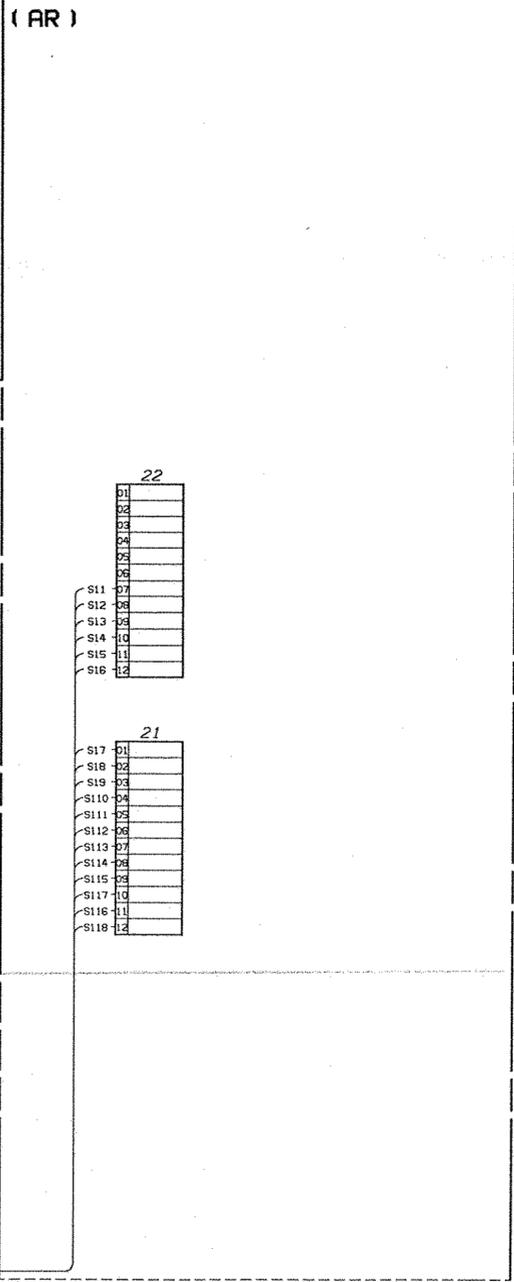
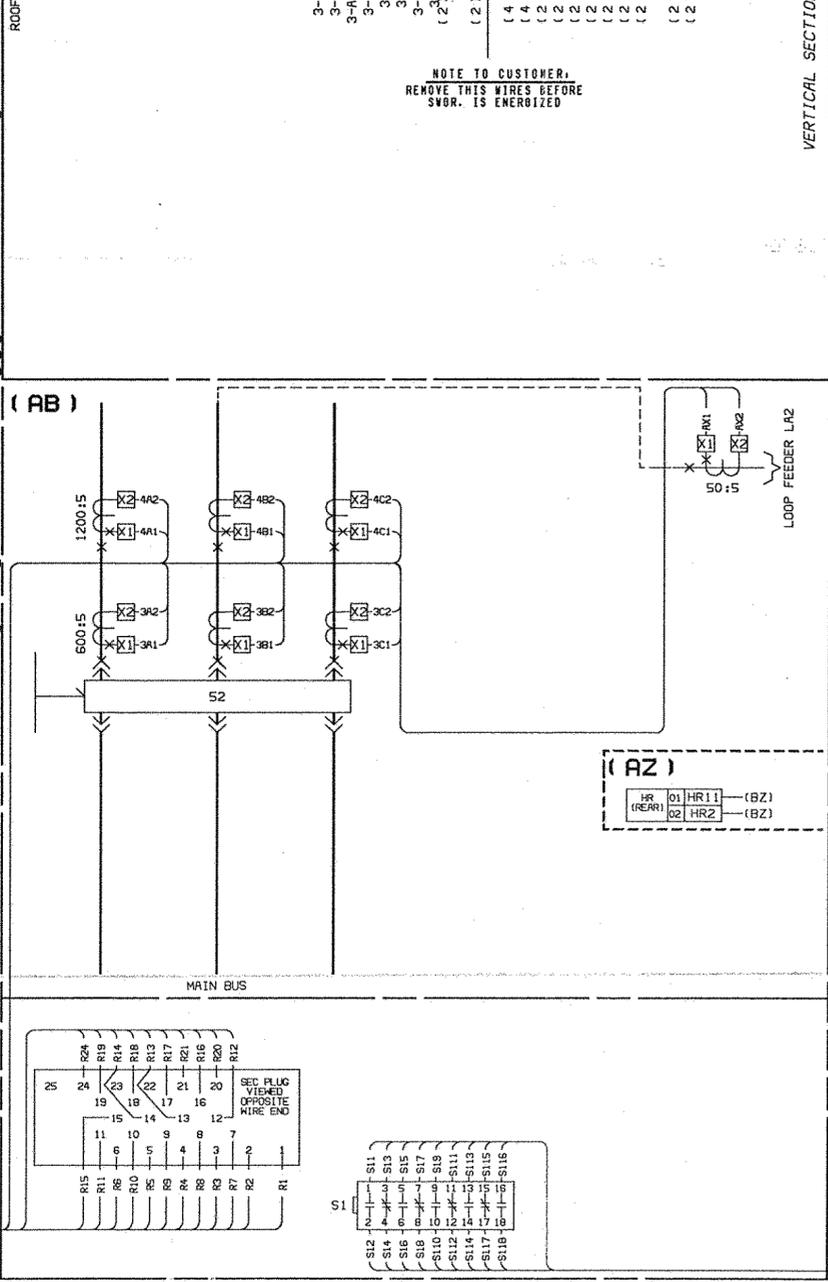
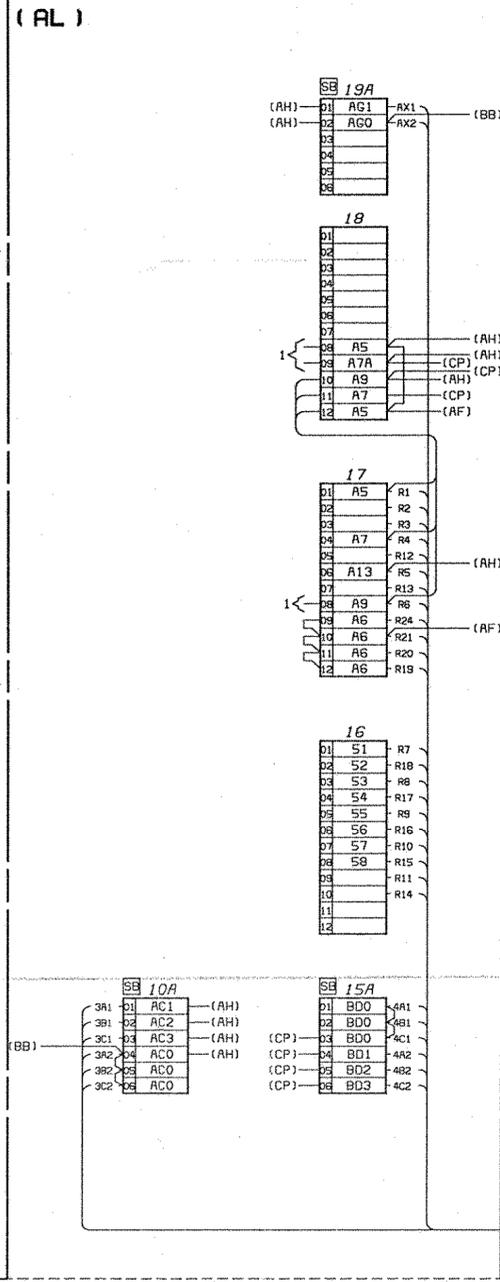
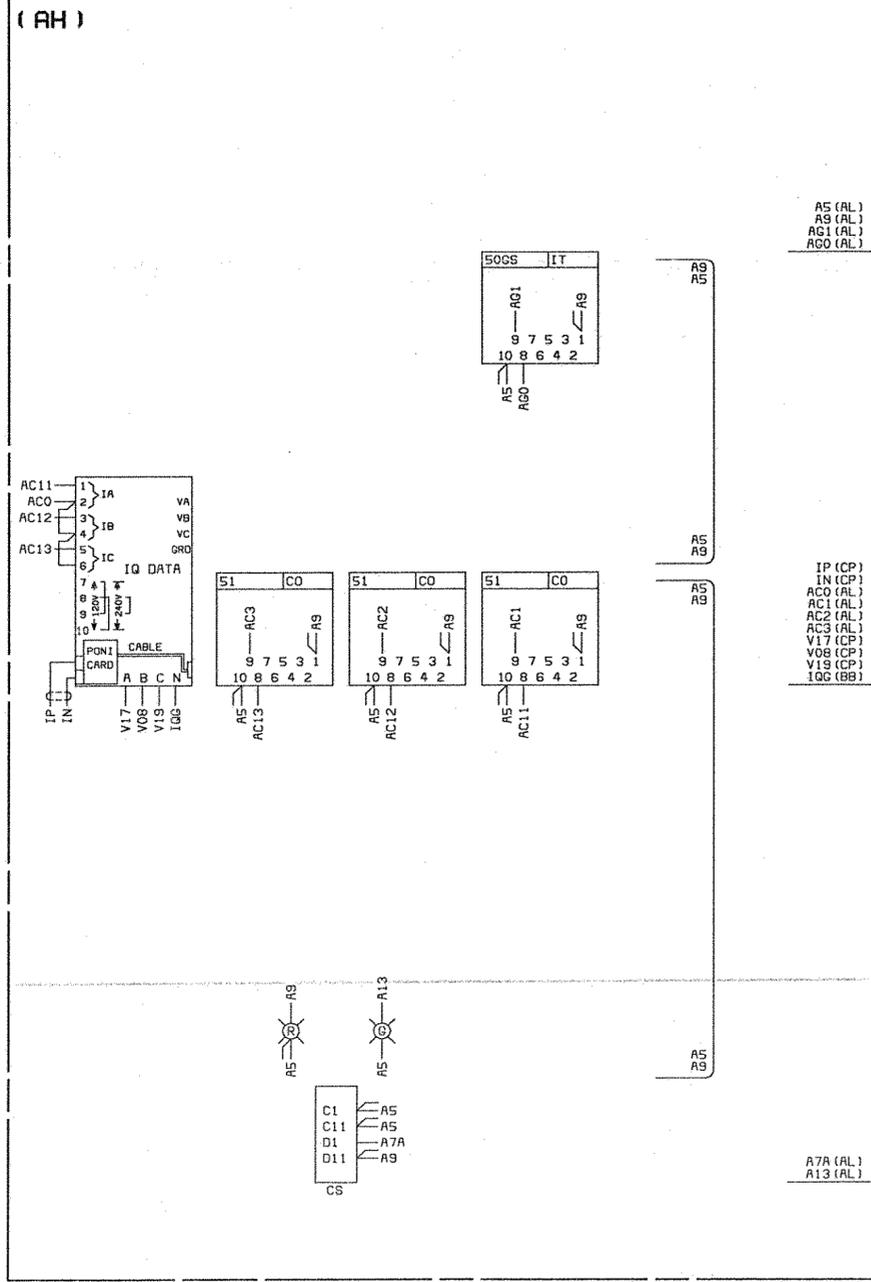
VERTICAL SECTION # 3
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

RIGHT SIDE SHEET



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. 3
SIZE FSCH D
DWG NO. 6588H03
SHEET 2 OF 2
6062

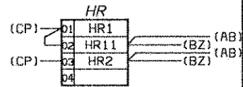
VERTICAL SECTION # 4
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

(BL)

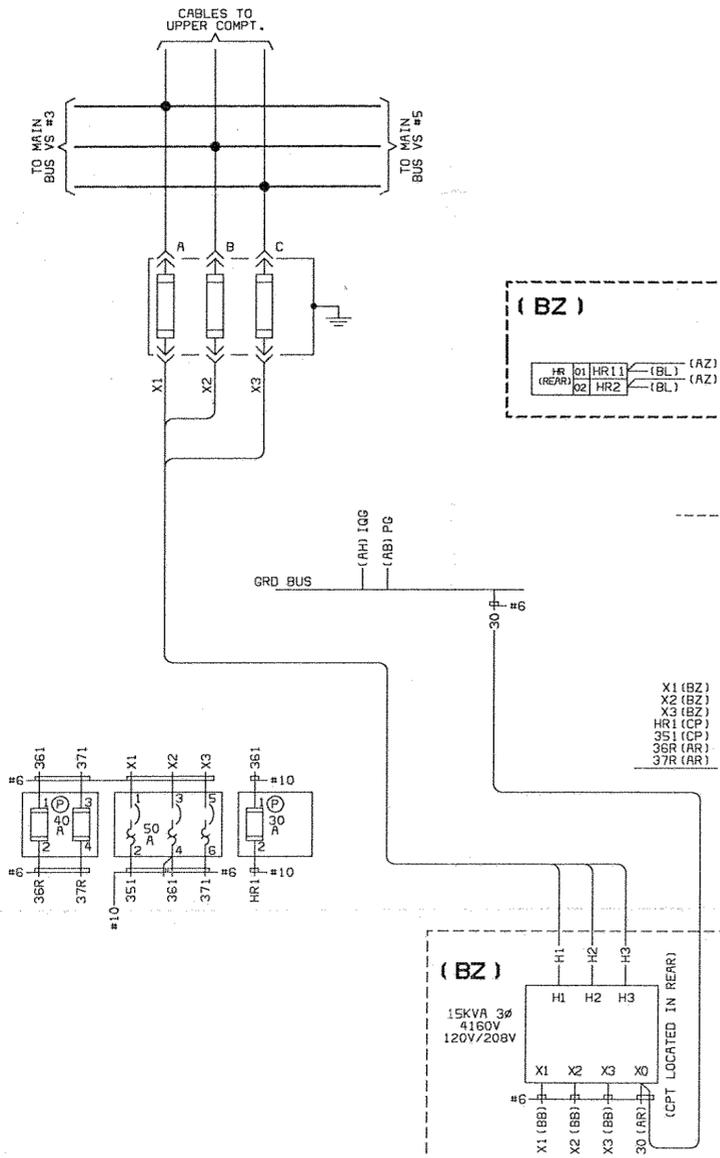
(BR)



(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

DPTH WALLACE
R. FIELDS
R. MATSKO

DATE 01/27/92
TITLE SCI MAHONEY PRISON FRACKVILLE, PA.
INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250
CONNECTION DIAGRAM VERT. SECT. 4
SIZE 1 OF 2
6588H04 6062

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

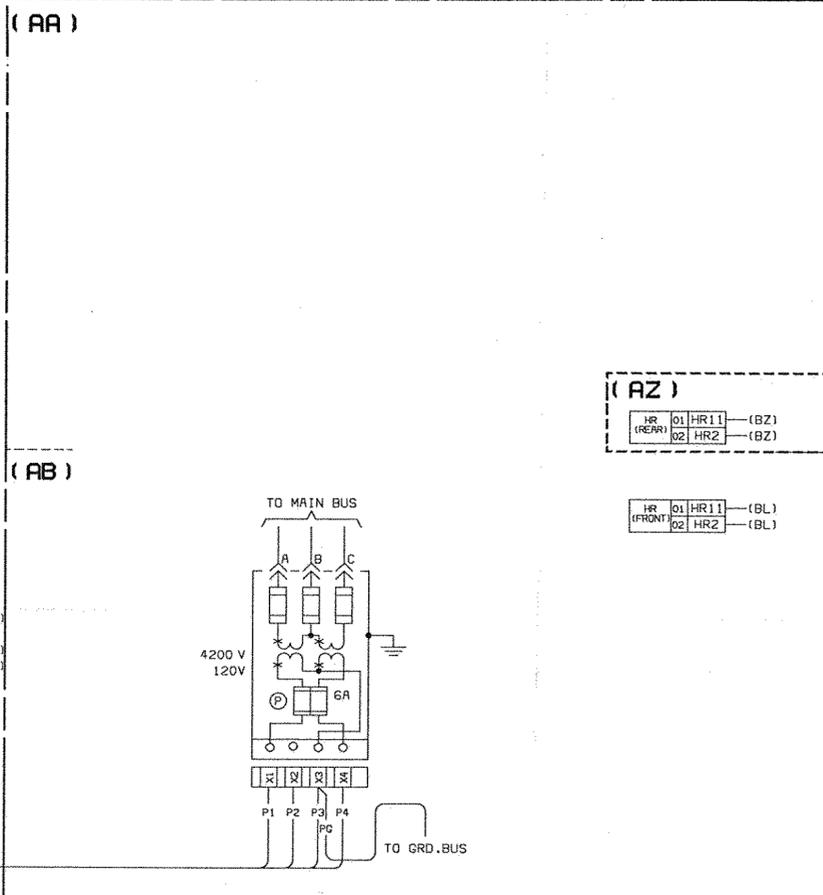
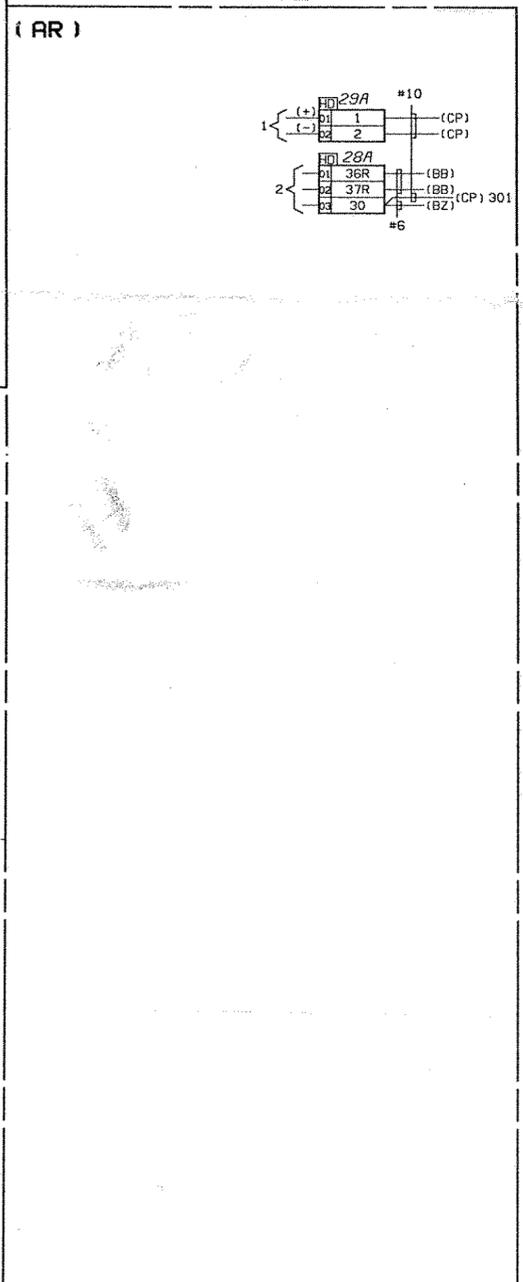
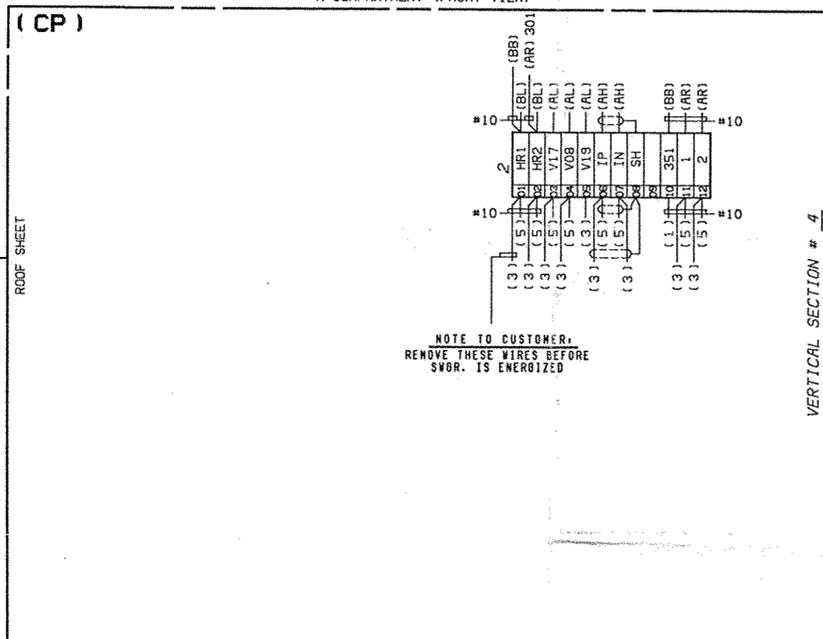
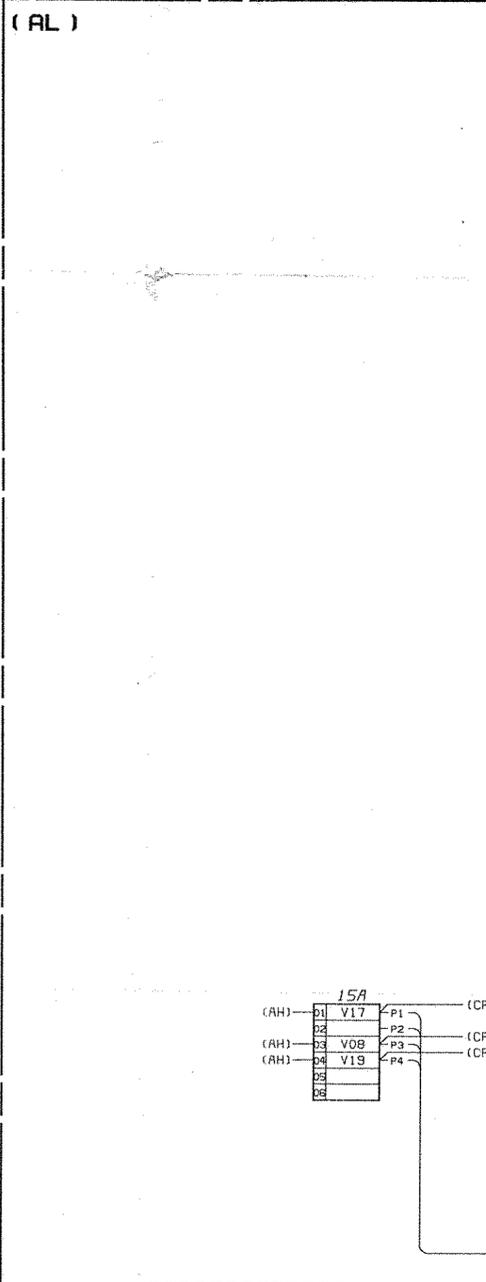
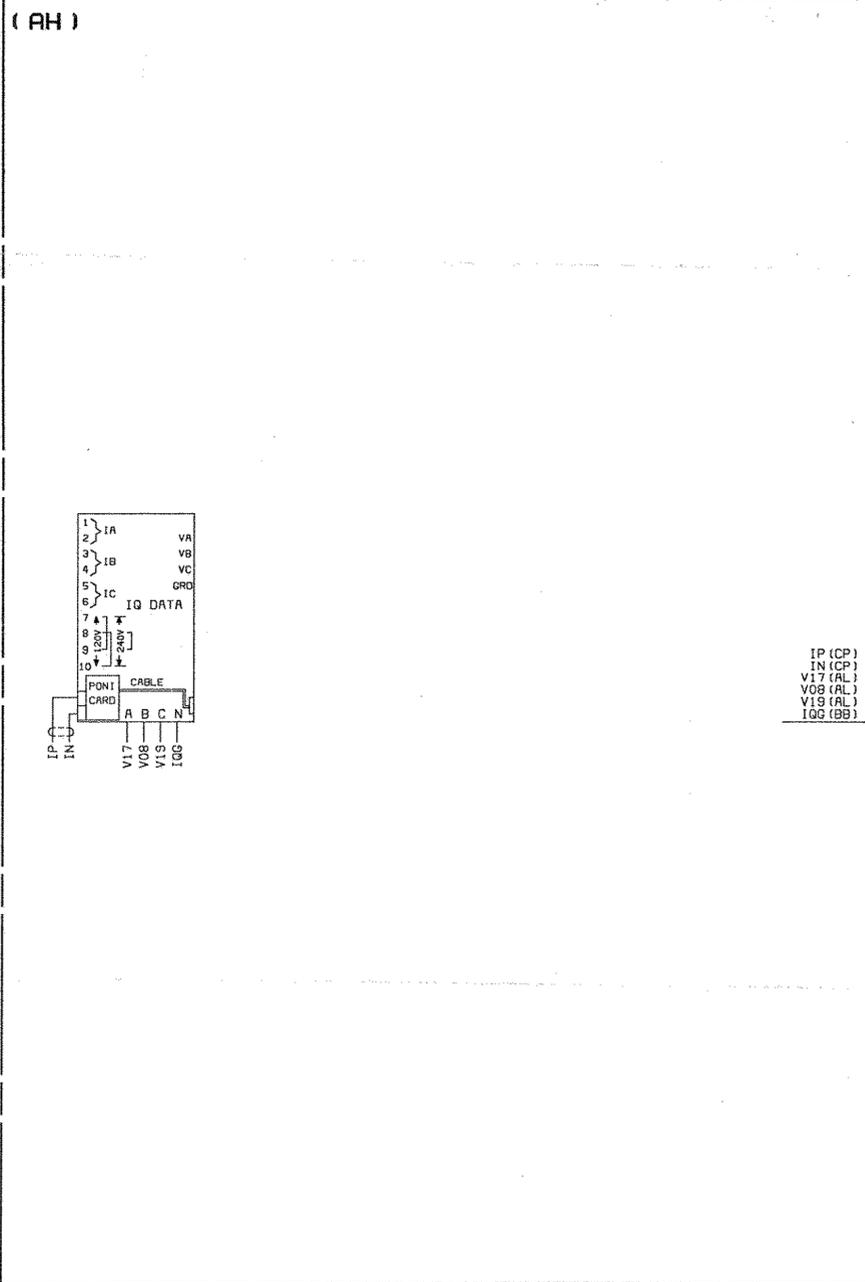
VERTICAL SECTION # 4
UPPER COMPARTMENT

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 2 OF 2 |
| D | | 6062 |

VERTICAL SECTION # 5
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

SHIPPING BREAK

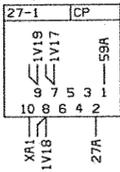
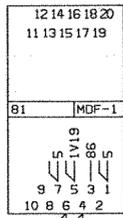
RIGHT SIDE SHEET

(AH)

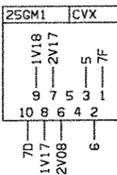
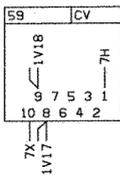
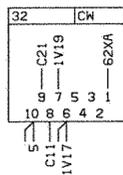
(AL)

(CP)

(AR)



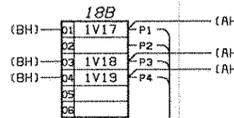
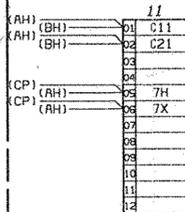
1V17
1V18
1V19



1V17
1V18
1V19

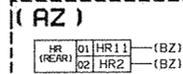
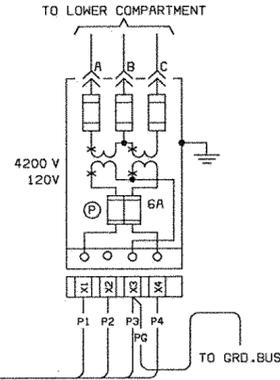
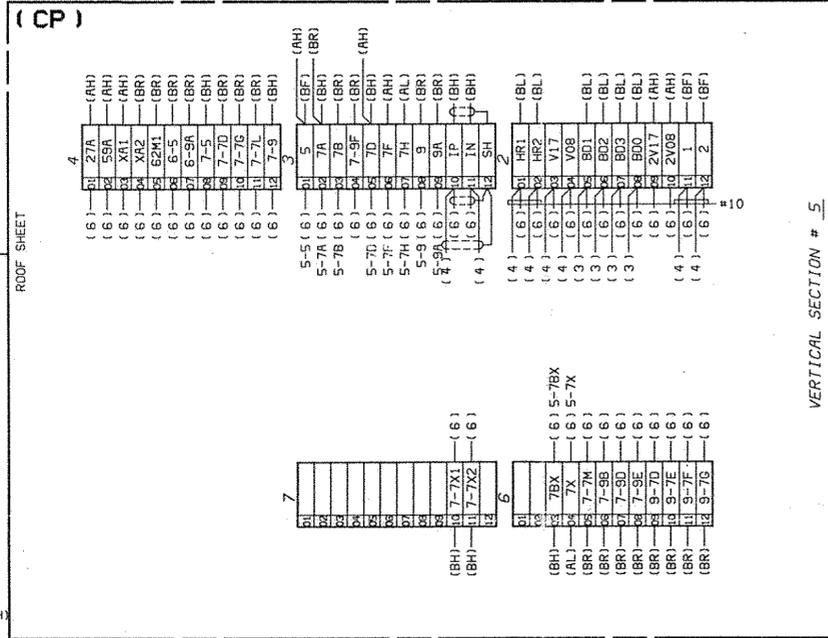
5 (CP)
6 (BF)
66 (BF)
27A (CP)
59A (CP)
XA1 (CP)
1V17 (AL)
1V18 (AL)
1V19 (AL)

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



(AR)

(AB)



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

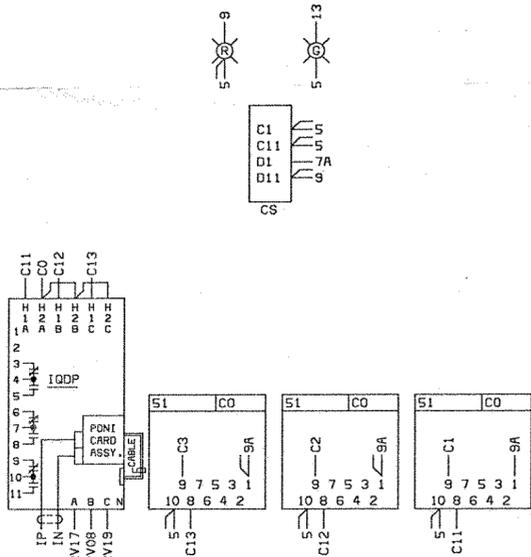
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| SUB | TITLE CONNECTION DIAGRAM VERT. SECT. 5 | |
| SIZE | FSC | DWG NO. 6588H05 |
| | | SHEET 2 OF 2 |

6062

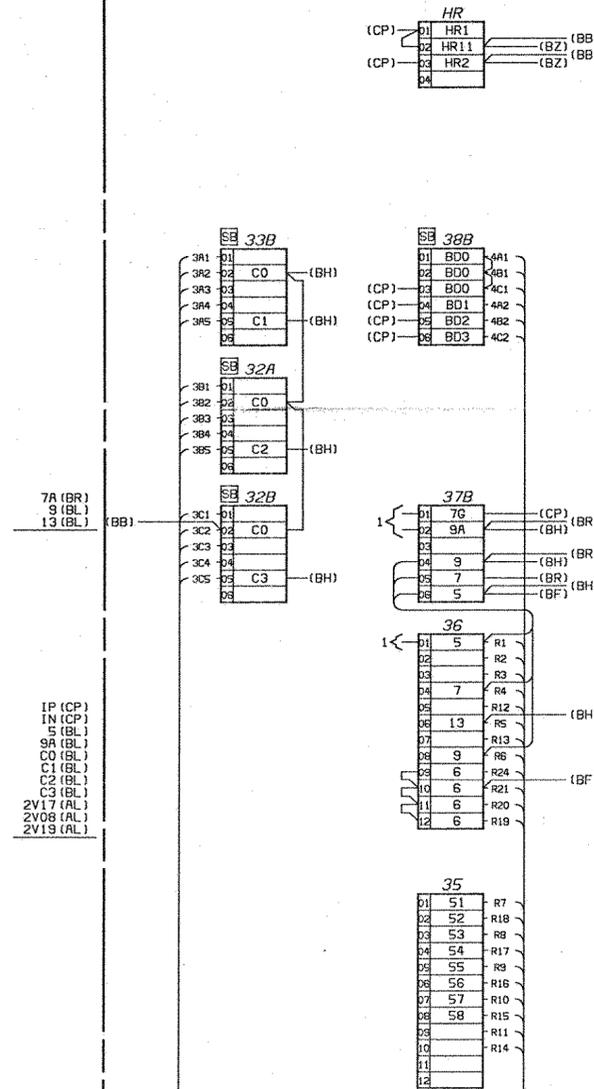
VERTICAL SECTION # 6
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

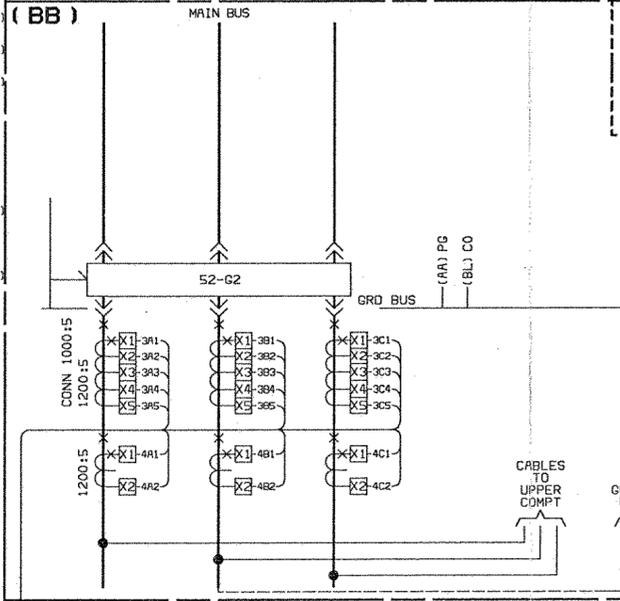


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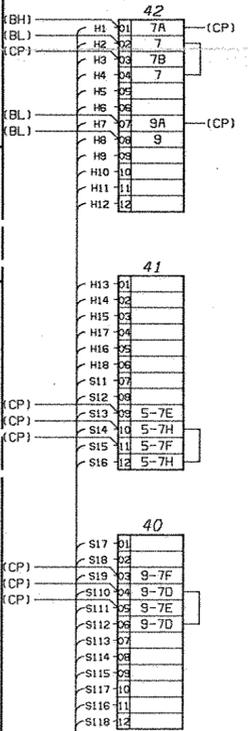


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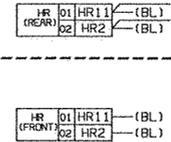
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(BR)

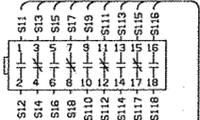
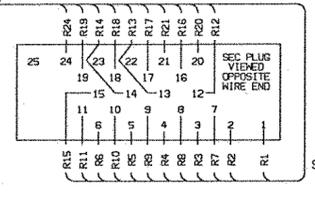


(BZ)



REMOTE GENERATOR CONTROL (1) 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.

| | | | |
|-------------|-----------|-----------------|--|
| DATE | 07/29/92 | Westinghouse | |
| DESIGNED BY | R. MATSKO | TITLE | INDOOR VACCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 6 |
| DATE | | SIZE | 50VCP-W250 |
| DESIGNED BY | R. MATSKO | FRACKVILLE, PA. | |
| DATE | | SIZE | 6588H06 |
| DESIGNED BY | R. MATSKO | SHEET | 1 OF 2 |

1
S.G. 71Y5588
C.D. BSHR-4501.4
CHANGE

2
71Y5588
MINOR WIRE CHANGES.
WALLACE 08/17/92
R. FIELDS
R. MATSKO

3
71Y5588
DELETED WIRE 5-5B, 5-5C & 5-6B ON 1B-6 & 2B-1.
D. NGUYEN 01/25/93
R. FIELDS
R. MATSKO

VERTICAL SECTION # 6
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

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

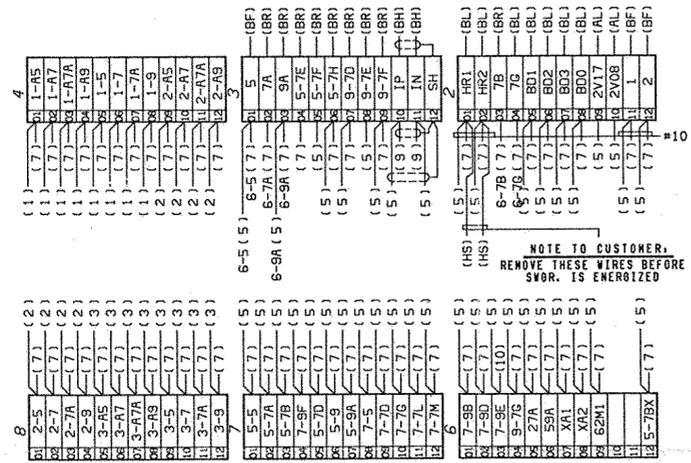
NOTE TO CUSTOMER:
CONNECT 120V AC
FOR TEMPORARY
HEATER SOURCE.

LEFT SIDE SHEET

(CP)

A COMPARTMENT (FRONT VIEW)

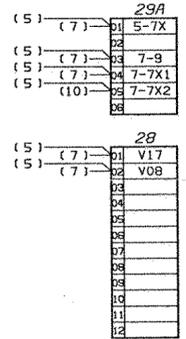
ROOF SHEET



VERTICAL SECTION # 6

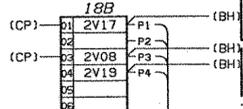
RIGHT SIDE SHEET

(AR)

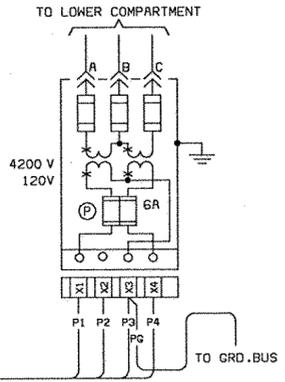


(AH)

(AL)



(AA)



(AB)



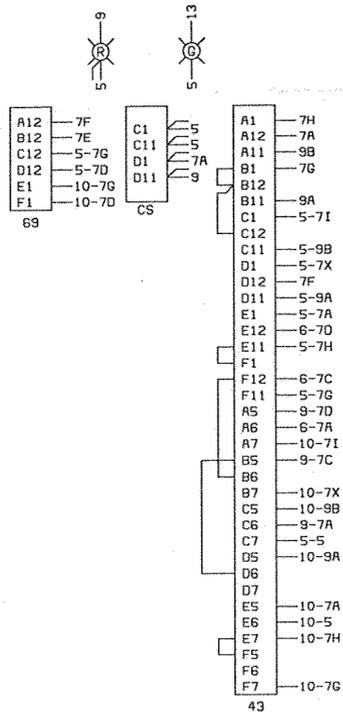
FOR SPECIAL NOTES SEE SHEET 1
ALL REV. NOTES LISTED ON SHEET 1.
ALL OTHER SHEETS LIST REV. NO. ONLY

| | |
|--------------|----------------------------------|
| SUB TITLE | CONNECTION DIAGRAM VERT. SECT. 6 |
| SIZE | F5CH |
| DWG NO. | 6588H06 |
| SHEET 2 OF 2 | |
| 6062 | |

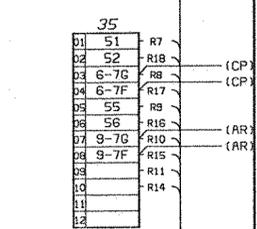
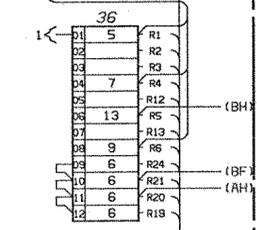
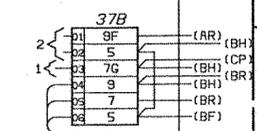
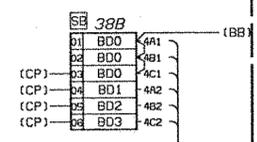
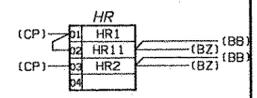
VERTICAL SECTION # 7
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

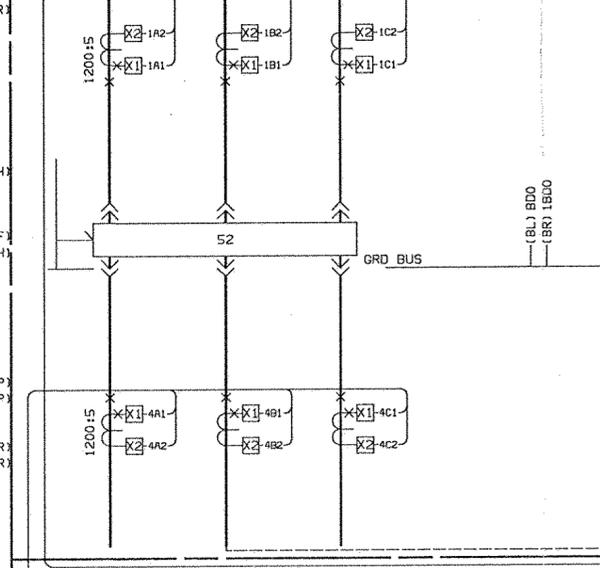


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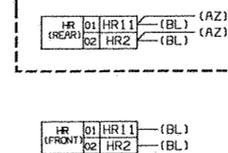


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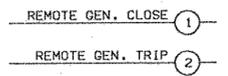
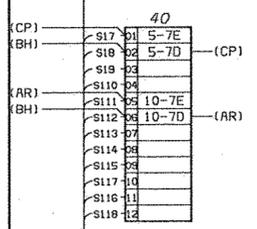
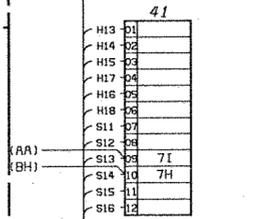
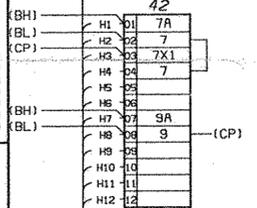
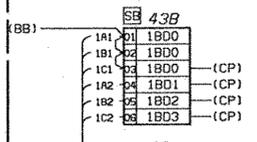
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(BZ)

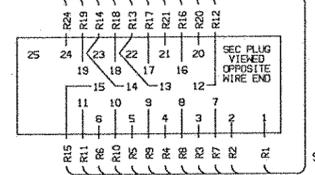


(BR)



LEFT SIDE SHEET

RIGHT SIDE SHEET



B COMPARTMENT (FRONT VIEW)

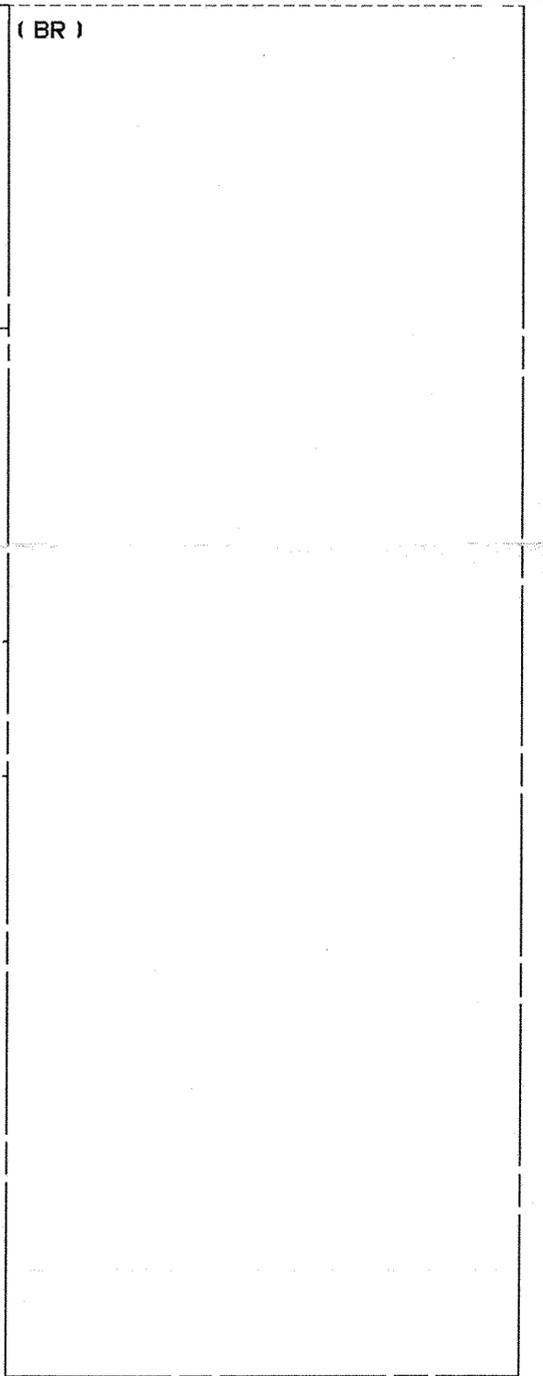
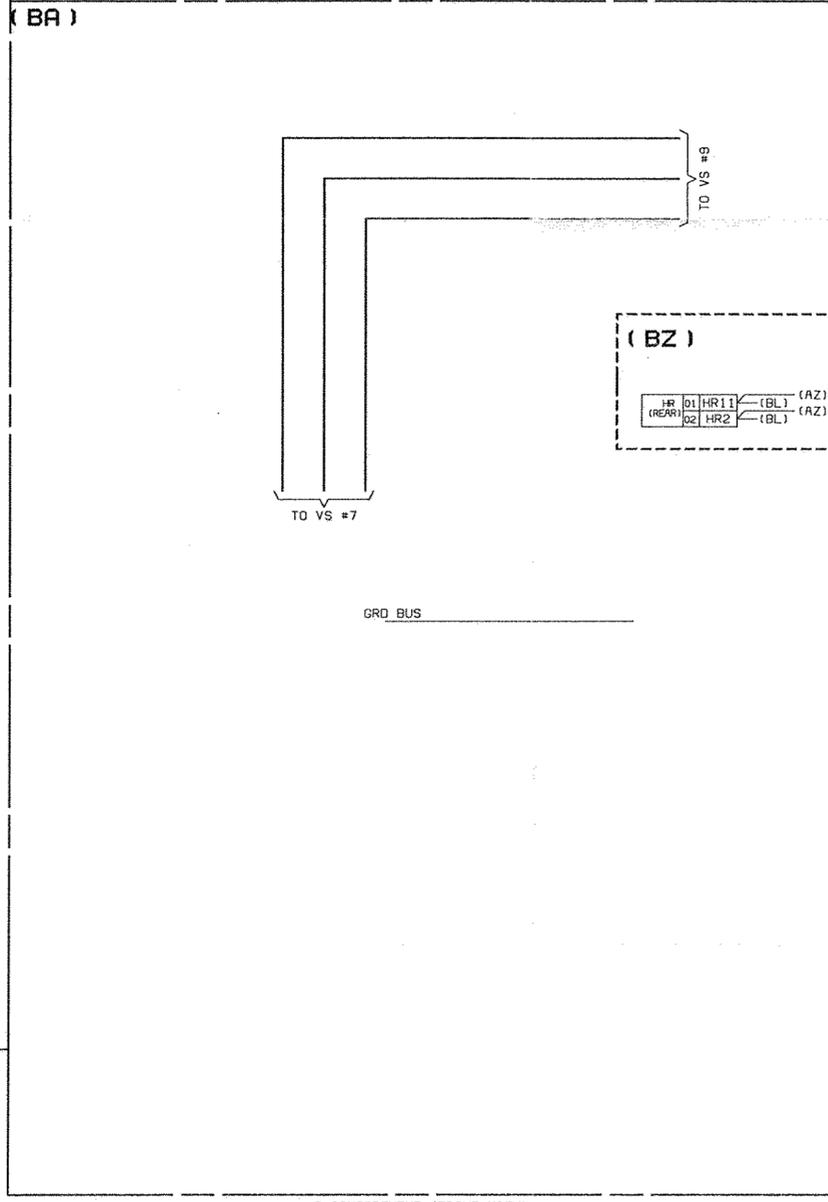
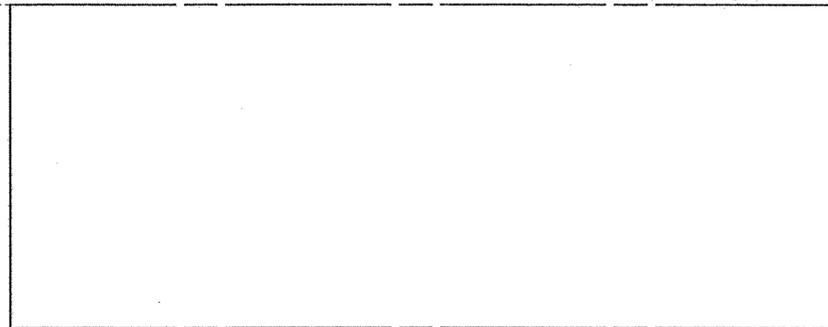
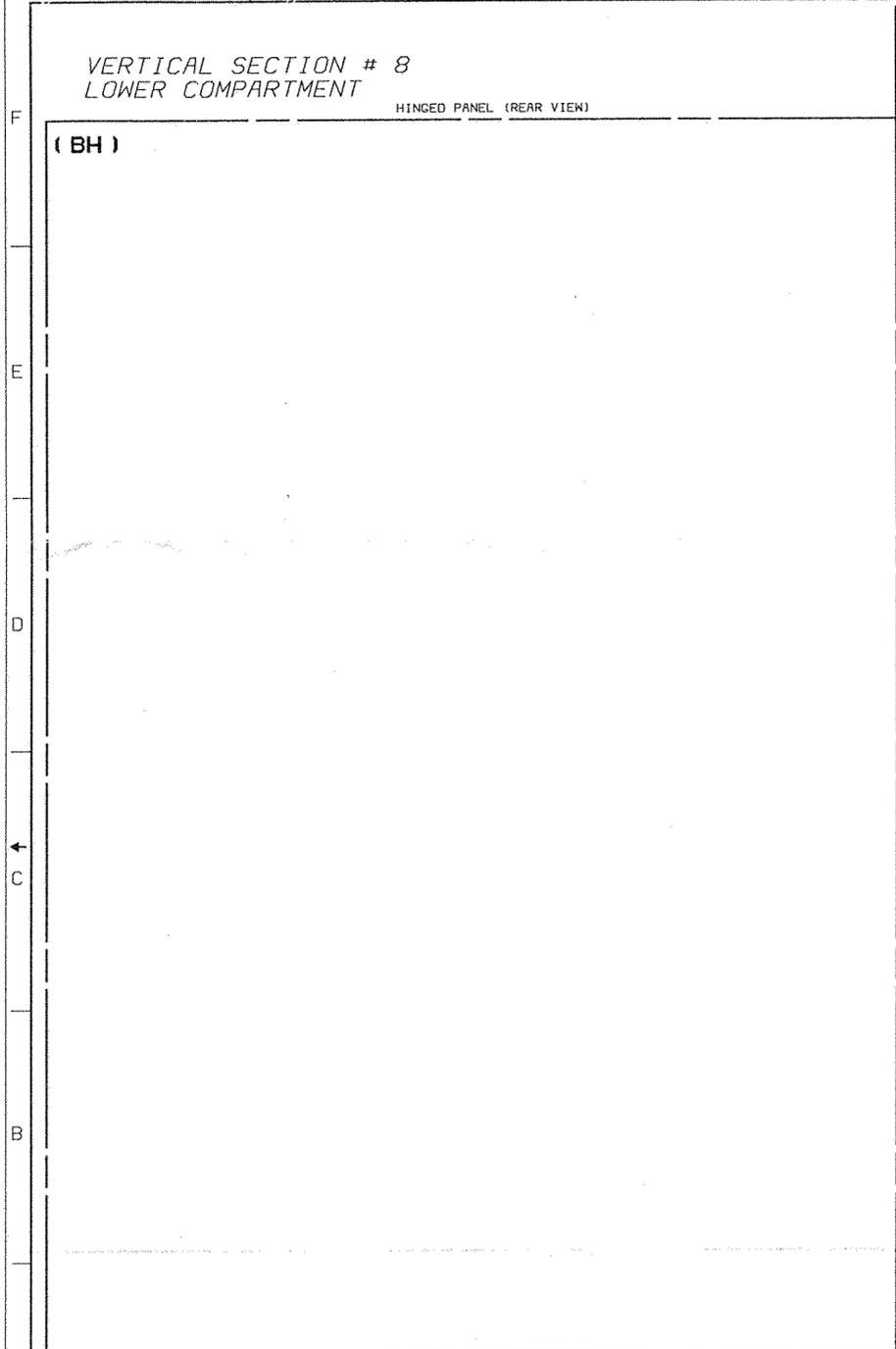
NOTE TO CUSTOMER:
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LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.
DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.
* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

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

| | | | | |
|-----------------|--|-----------------|---|------------|
| DFTN WALLACE | | DATE 8/29/92 | Westinghouse | |
| ENG R.FIELDS | | DATE | TITLE SCI MAHONEY PRISON FRACKVILLE, PA. | |
| R.MATSKO | | | INDOOR VACCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 7 | |
| SIZE | | FSCH NO | DWG NO | 50VCP-K250 |
| SHEET 1 OF 2 | | 6588H07 | | 6062 |

| | |
|---|---|
| 1 | S.O. 716588 G.O. 85HR-45014 CHANGE |
| 2 | 716588 DEV. B2X1 AND B2X2 WERE REMOVED AND WIRE CHANGES. |
| 3 | 716588 DEV. 27X1, 27X2, 43 & 18 MODIFIED. |
| | 09/17/92 WALLACE R.FIELDS R.MATSKO |
| | 01/25/93 D.NGVEN R.FIELDS R.MATSKO |

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 | Westinghouse | |
| DRW | KALLACE | DATE | | TITLE | |
| ENG | R. FIELDS | DATE | | SCI MAHONEY PRISON FRACKVILLE, PA. | |
| DRW | | DATE | | INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250 | |
| DRW | | DATE | | CONNECTION DIAGRAM VERT. SECT. 8 | |
| DRW | | DATE | | SIZE | 13CR NO |
| DRW | | DATE | | SHEET | 1 OF 2 |
| DRW | R. MATSKO | DATE | | 6588H08 | 6062 |

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11 10 9 8 7 6 5 4 3 2 1

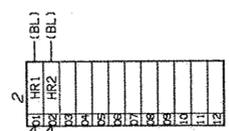
A COMPARTMENT (FRONT VIEW)

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

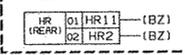
(AR)

(AH)

(AL)

(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 | |

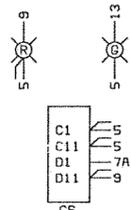
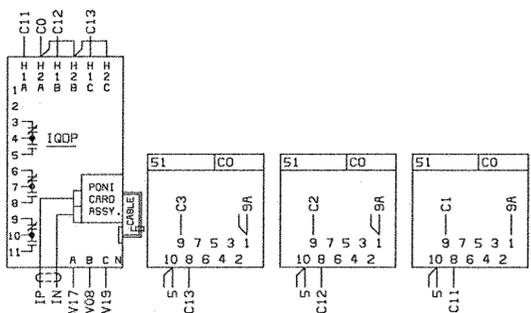
11 10 9 8 7 6 5 4 3 2 1

6062

VERTICAL SECTION # 9
LOWER COMPARTMENT

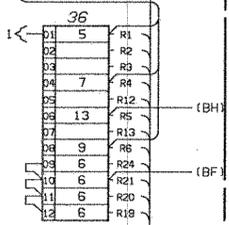
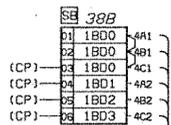
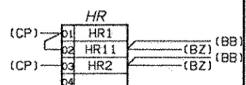
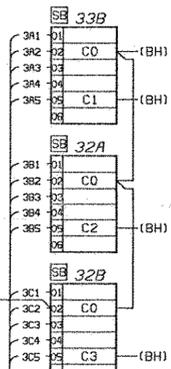
HINGED PANEL (REAR VIEW)

(BH)



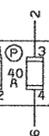
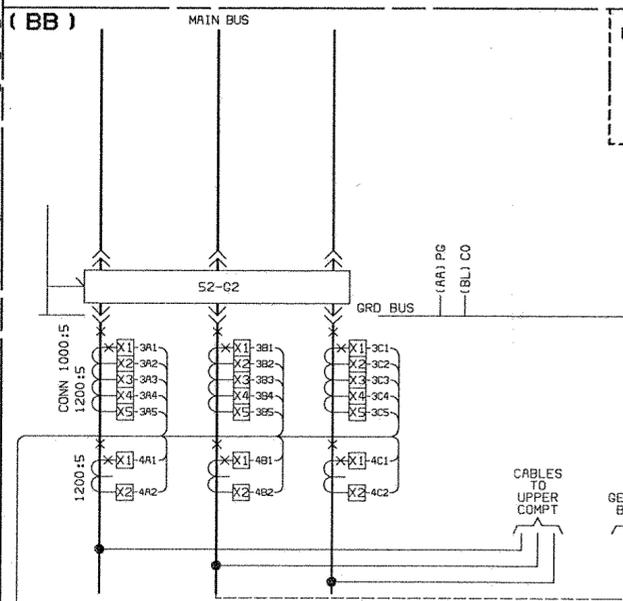
- 7A (BR)
- 9 (BL)
- 13 (BL)

(BL)

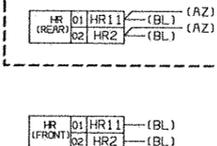


(BF)

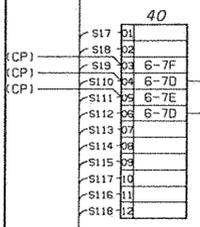
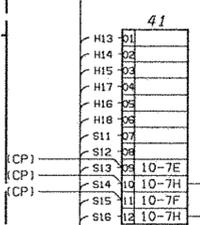
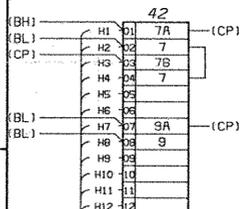
(BB)



(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.

68 120

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

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

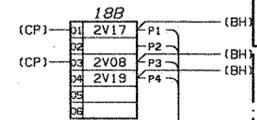
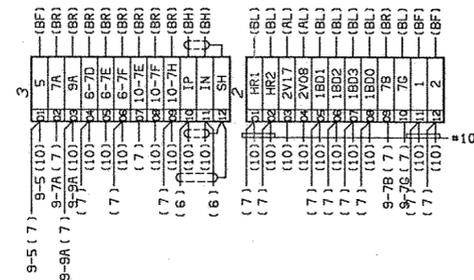
(AL)

(CP)

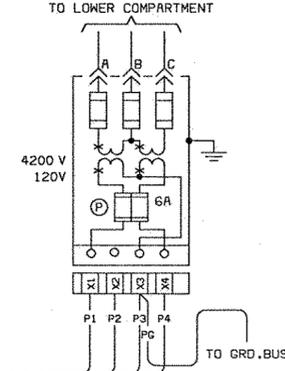
(AR)

VERTICAL SECTION # 9

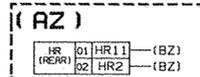
RIGHT SIDE SHEET



(AR)



(AB)



(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. 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
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

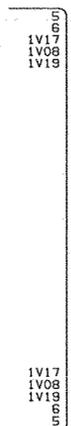
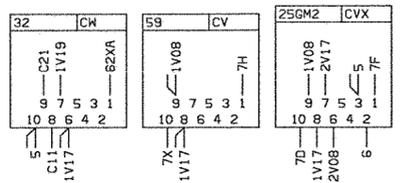
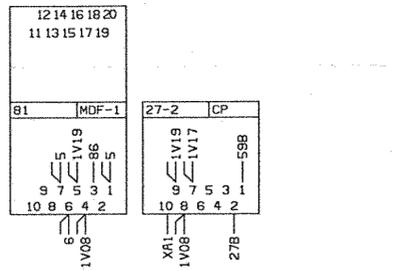
RIGHT SIDE SHEET

(AH)

(AL)

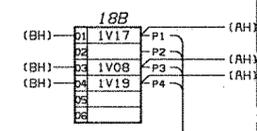
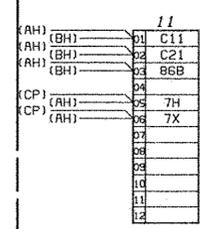
(CP)

(AR)



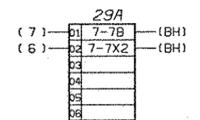
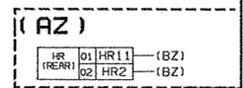
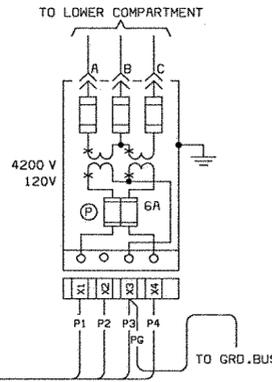
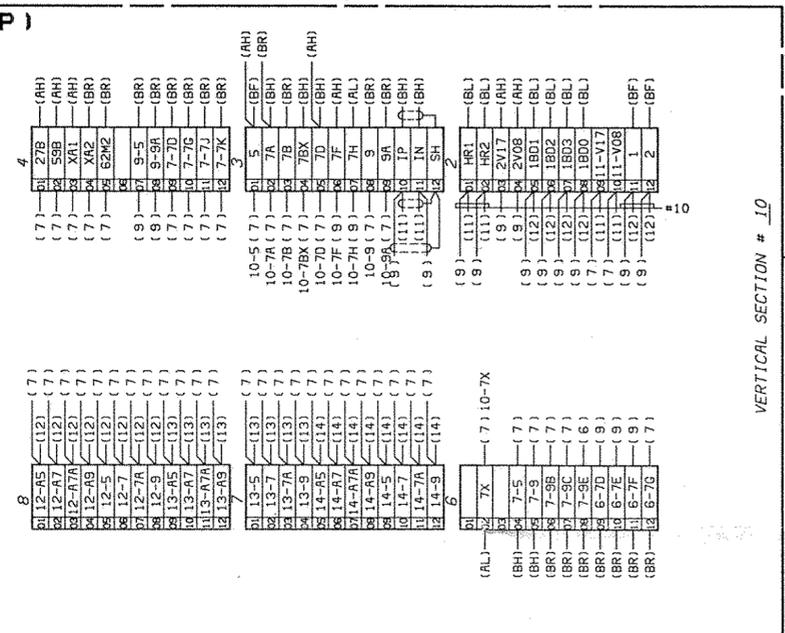
- 5 (CP)
- 6 (BF)
- 86 (BF)
- 27B (CP)
- 59B (CP)
- XA1 (CP)
- 1V17 (AL)
- 1V08 (AL)
- 1V19 (AL)

- 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)

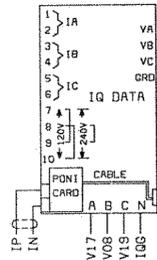
(CP)

(AR)

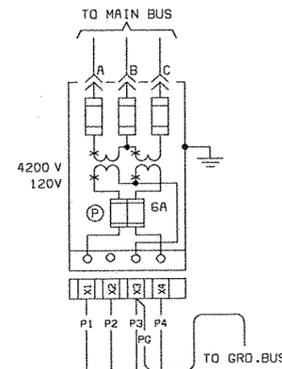
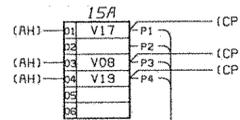
(AA)

(AB)

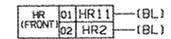
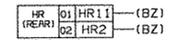
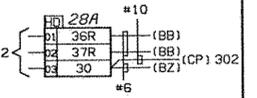
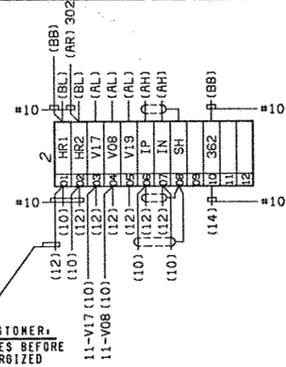
(AZ)



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 | | SUB | TITLE CONNECTION DIAGRAM VERT. SECT. 11 | |
| ALL REV. NOTES LISTED ON SHEET 1. | | SIZE | FSCM | DWG NO. 6588H11 |
| ALL OTHER SHEETS LIST REV. NO. ONLY | | SHEET 2 OF 2 | | |
| | | 6062 | | |

VERTICAL SECTION # 12
LOWER COMPARTMENT

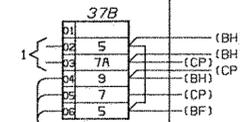
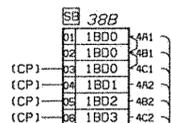
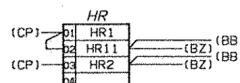
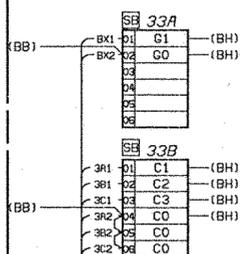
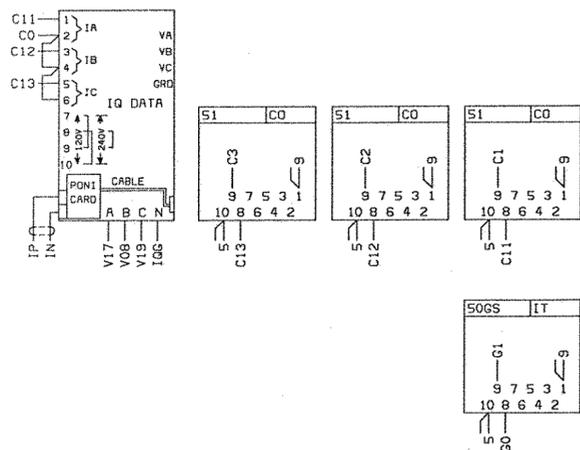
HINGED PANEL (REAR VIEW)

(BH)

(BL)

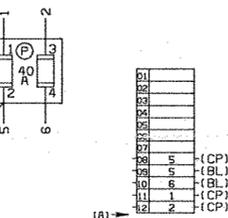
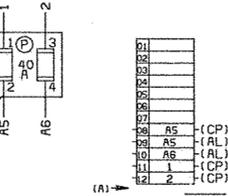
(AF)

(BR)

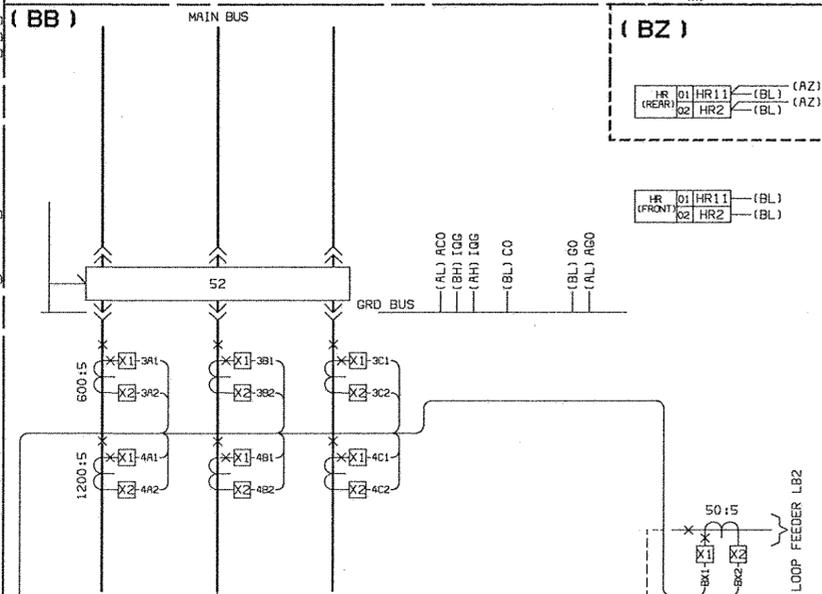
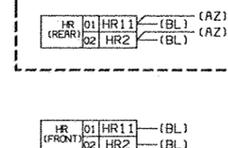


(BF)

(BB)



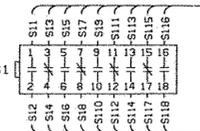
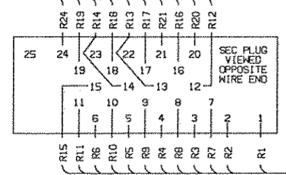
(BZ)



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, EXCEPT AS NOTED.

LEGEND:
 [Symbol] DUMMY FUSE [Symbol] SHORT CKT. TERM BLK
 [Symbol] - PULL FUSE [Symbol] - HEAVY DUTY TERM BLK

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

3.0.71.9588
3.0.BSHR-45014
CHANGE

VERTICAL SECTION # 12
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

REMOTE GENERATOR CONTROL ①

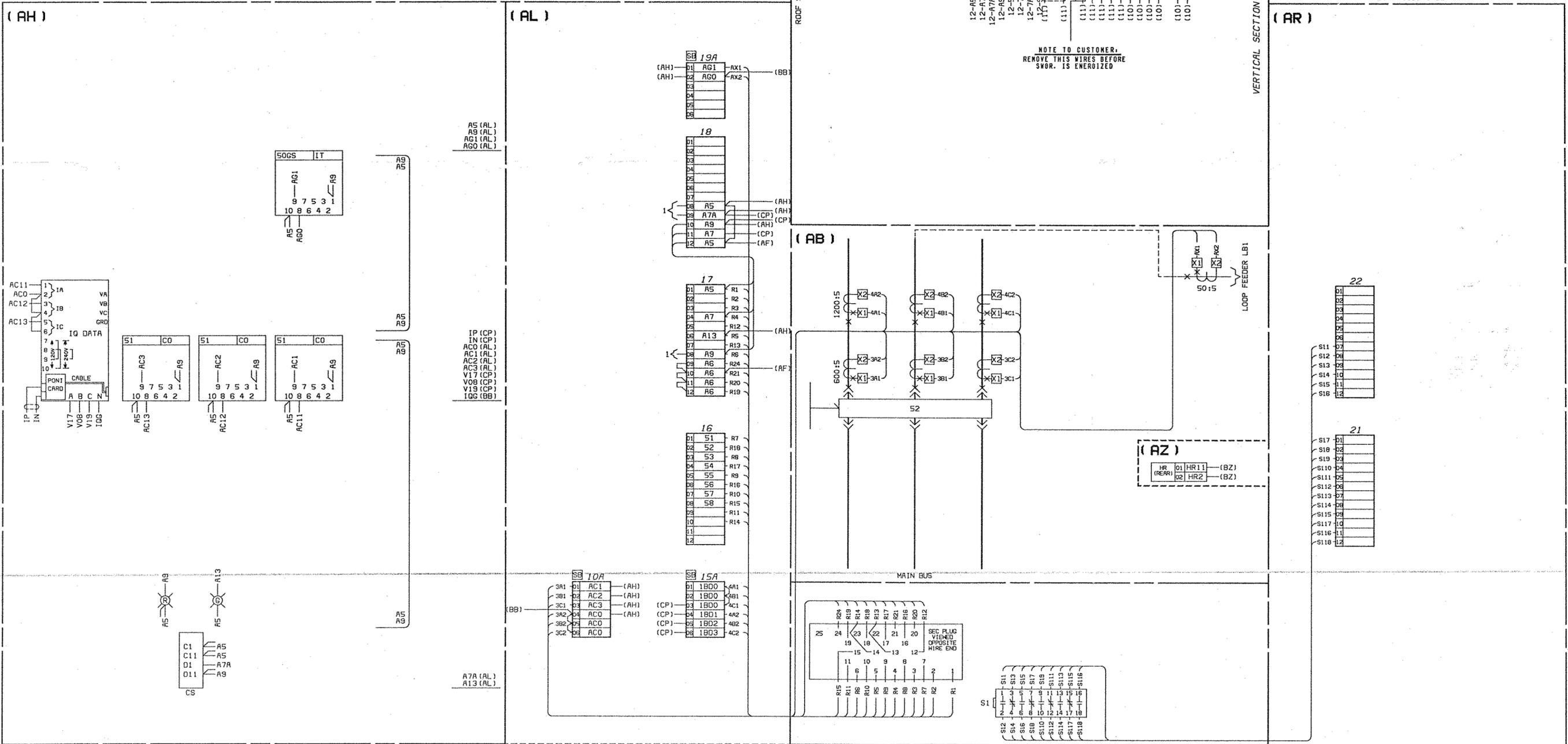
LEFT SIDE SHEET

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

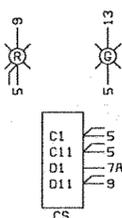
| | |
|--------------|-----------------------------------|
| SUB | CONNECTION DIAGRAM VERT. SECT. 12 |
| TITLE | |
| SIZE | F5CH |
| DWG. NO. | 6588H12 |
| SHEET 2 OF 2 | |

6062

VERTICAL SECTION # 13
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

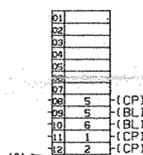
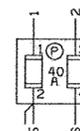
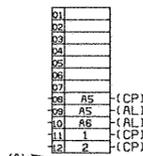
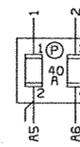
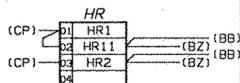


5 (BL)
7A (BL)
9 (BL)
13 (BL)

(BL)

(AF)

(BR)

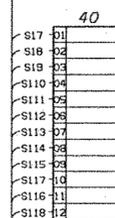
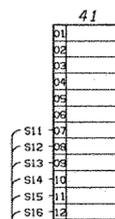
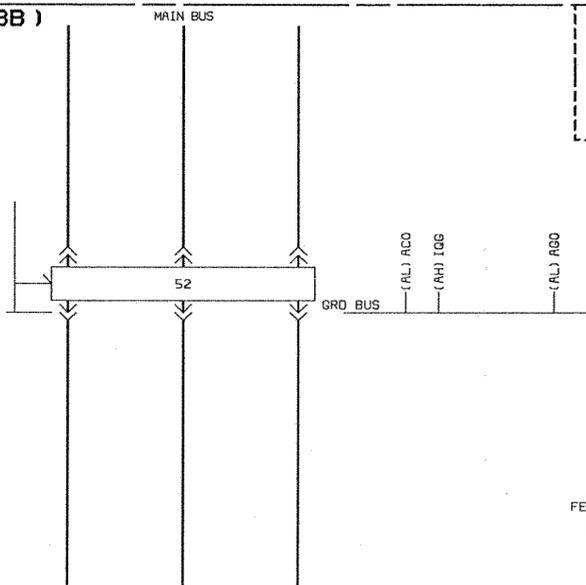
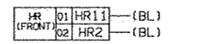
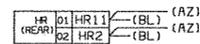
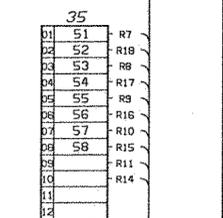
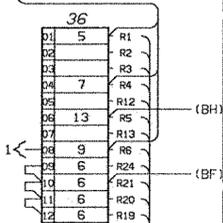
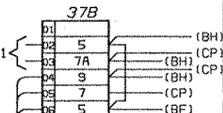


(BF)

(BB)

MAIN BUS

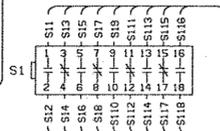
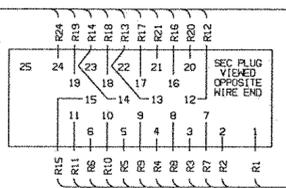
(BZ)



REMOTE GENERATOR CONTROL

LEFT SIDE SHEET

RIGHT SIDE SHEET



B COMPARTMENT (FRONT VIEW)

NOTE TO CUSTOMER:
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. (C) - DUMMY FUSE (S) - SHORT CKT. TERM BLK (P) - PULL FUSE (H) - HEAVY DUTY TERM BLK

| | | | |
|---------|-----------|------|--|
| DATE | 28/10/82 | DATE | |
| WALLACE | | DATE | |
| ENG | R. FIELDS | DATE | |
| ENG | R. MATSKO | DATE | |

Westinghouse

TITLE: SCI MAHONEY PRISON FRACKVILLE, PA.

INDOOR VACUUM SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 13

SIZE: D SHEET 1 OF 2

DWG NO: 6588H13

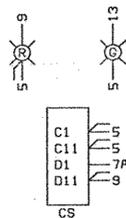
6062

1
5.9.71Y5588
6.0.BSHR-45014
CHANGE

VERTICAL SECTION # 14
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

(BH)

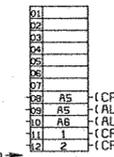
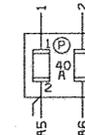
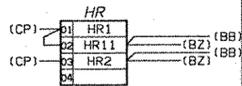


5 (BL)
7A (BL)
9 (BL)
13 (BL)

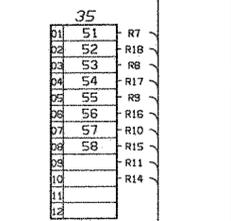
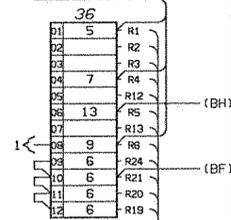
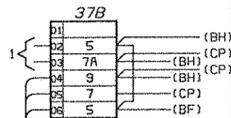
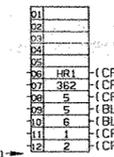
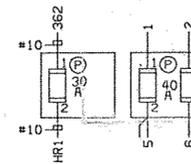
(BL)

(AF)

(BR)



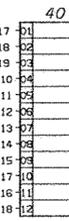
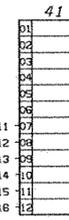
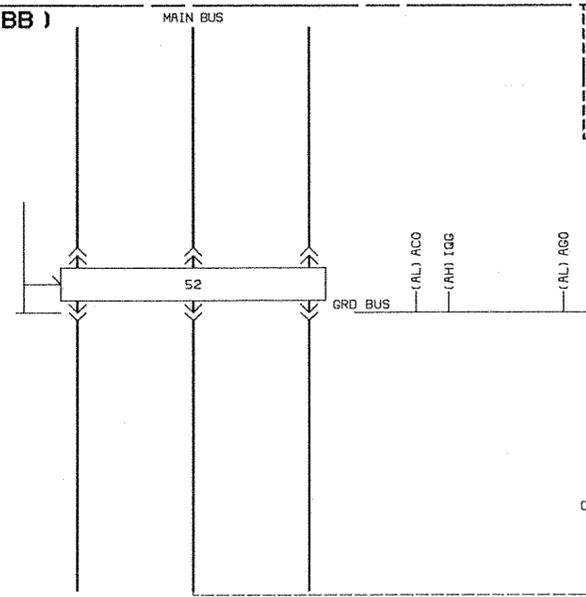
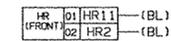
(BF)



(BB)

MAIN BUS

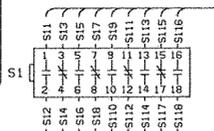
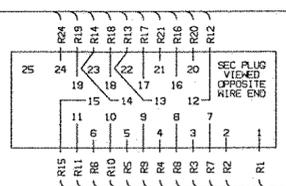
(BZ)



REMOTE GENERATOR CONTROL 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. |
| WALLACE | 09/17/92 |
| 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 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
 PULL FUSE
 SHORT CKT. TERM BLK
 HEAVY DUTY TERM BLK

| | | | |
|-----------|-------|----------|--|
| 6588EMD | DATE | 88/18/92 | Westinghouse |
| WALLACE | DATE | | SCI MAHONEY PRISON FRACKVILLE, PA. |
| ENG | DATE | | INDOOR VACCLAD-W SWITCHGEAR CONNECTION DIAGRAM VERT. SECT. 14 |
| R. FIELDS | | | AUG SCVCP-2504 |
| R. MATSKO | SHEET | 1 OF 2 | 6588H14 6062 |

VERTICAL SECTION # 14
UPPER COMPARTMENT

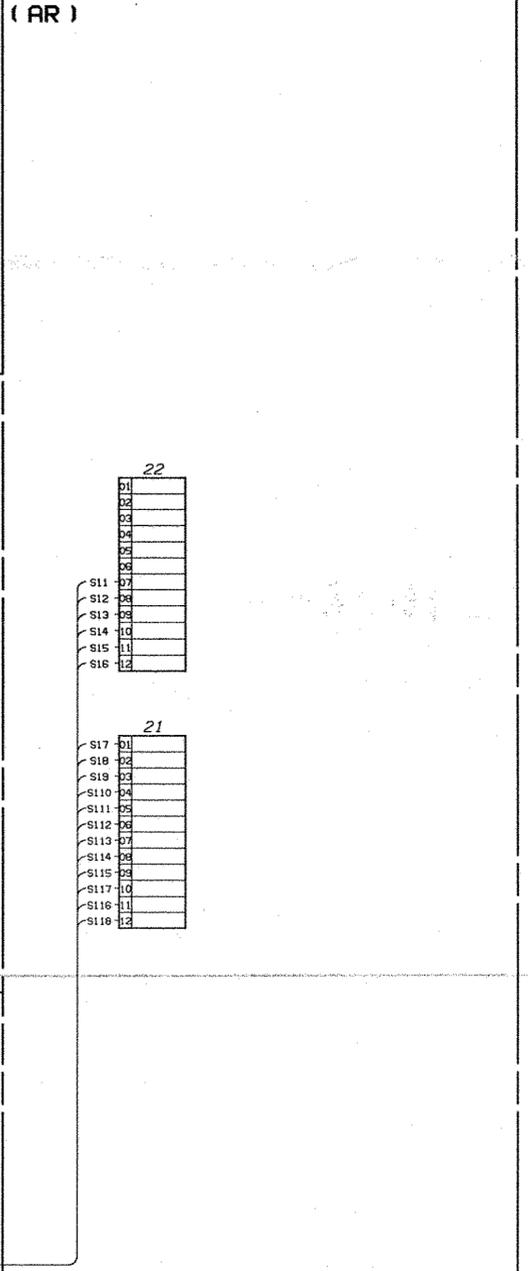
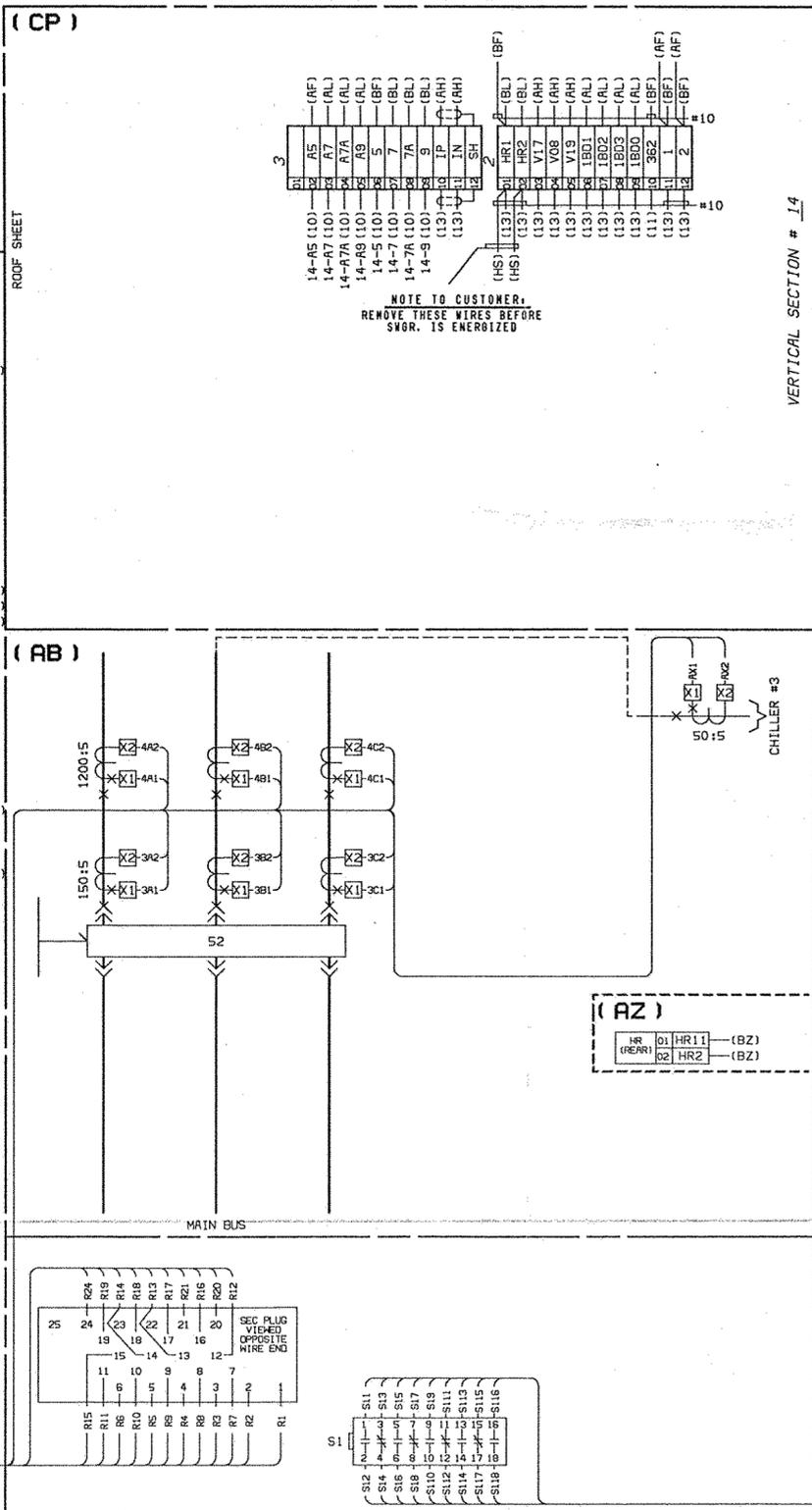
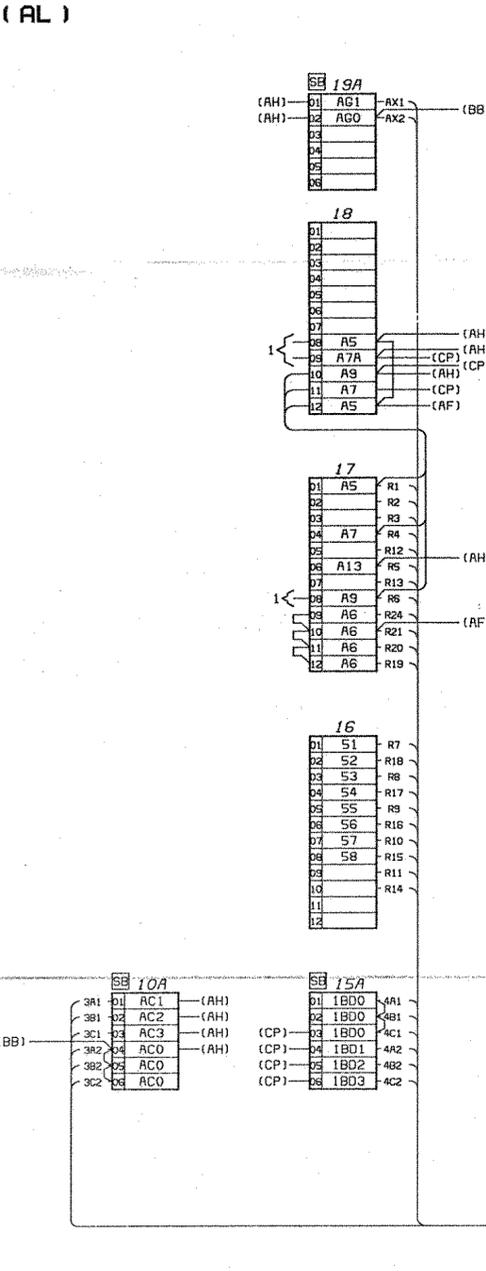
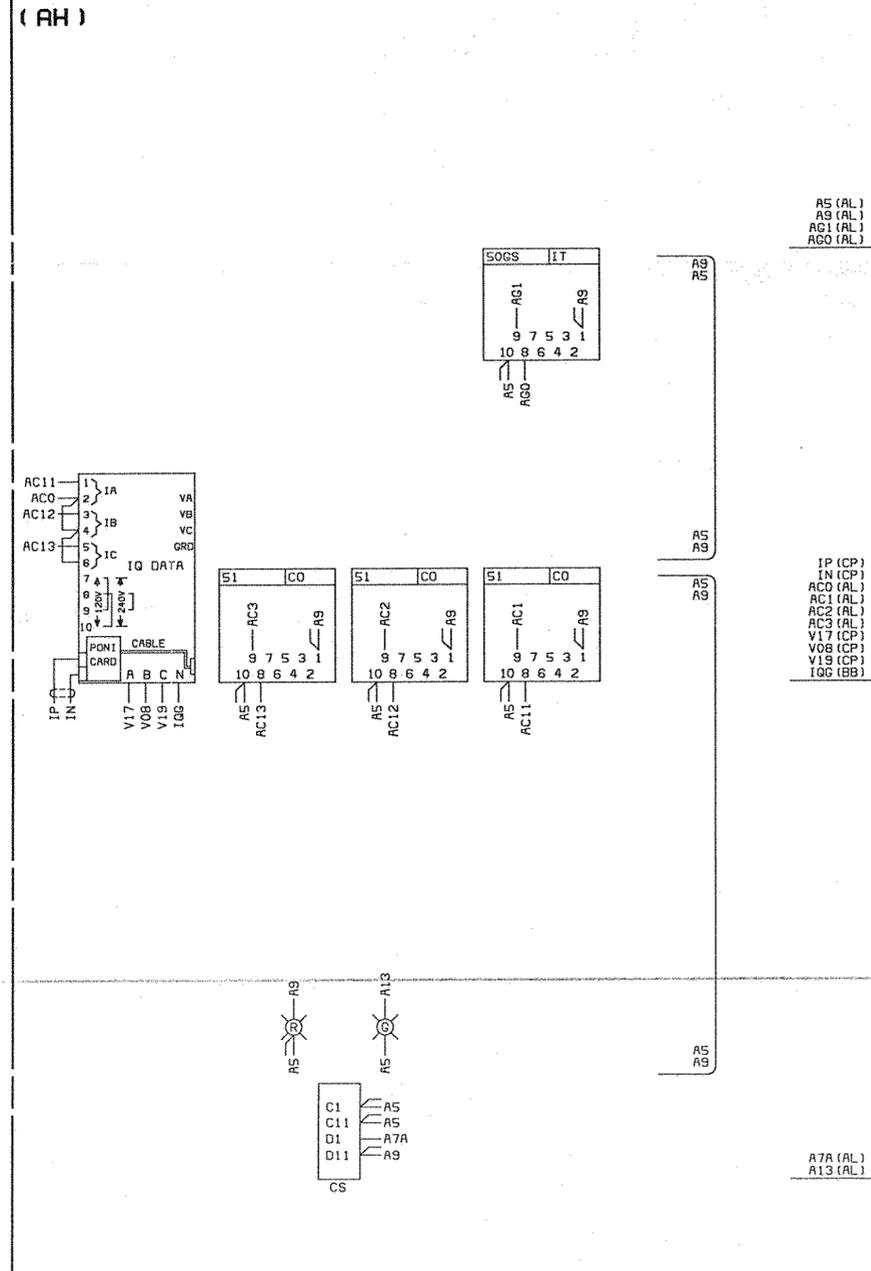
HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

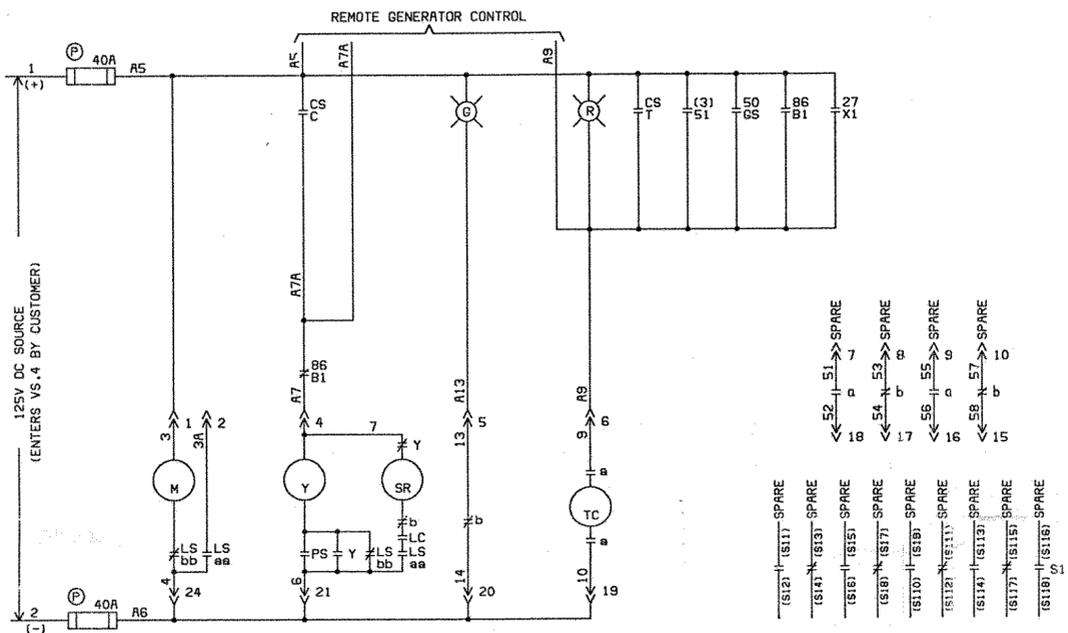
(HS) NOTE TO SHOP:
LEAVE WIRES 7 FT. IN LENGTH
WITH T.B. CONNECTED TO END.

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

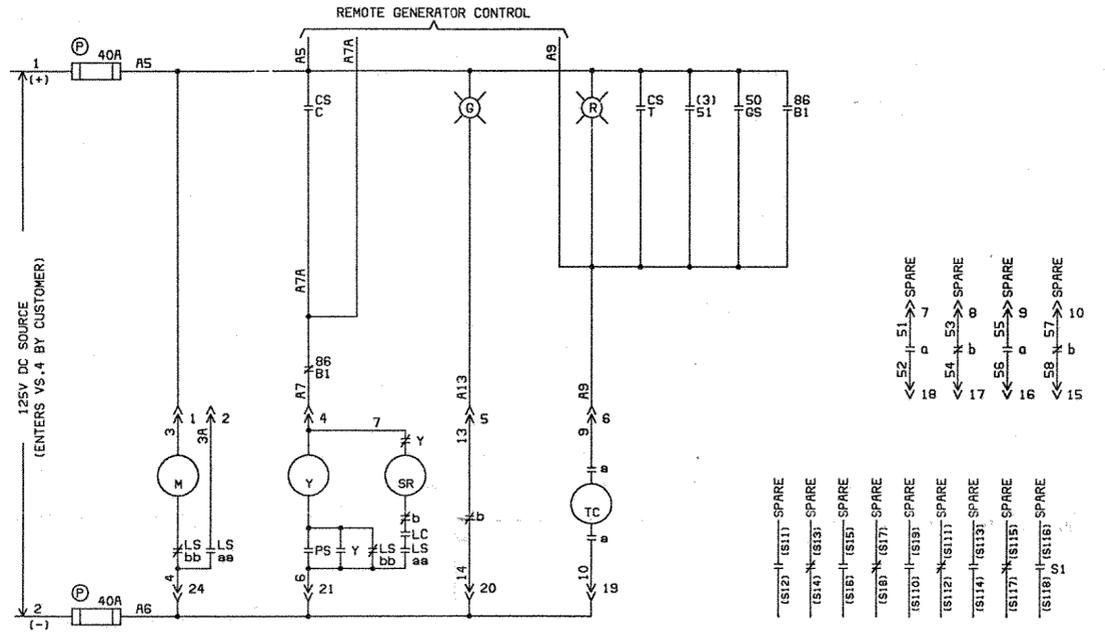


FOR SPECIAL NOTES SEE SHEET 1
ALL REV. NOTES LISTED ON SHEET 1.
ALL OTHER SHEETS LIST REV. NO. ONLY

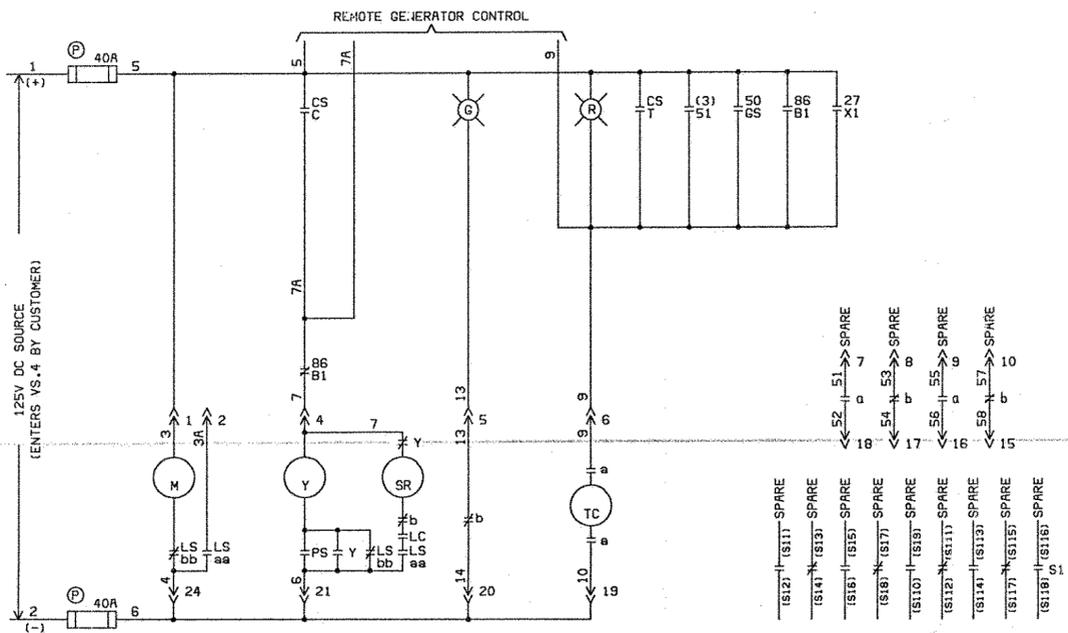
SUB TITLE CONNECTION DIAGRAM VERT. SECT. 14
SIZE FSCB DWG NO. 6588H14
SHEET 2 OF 2



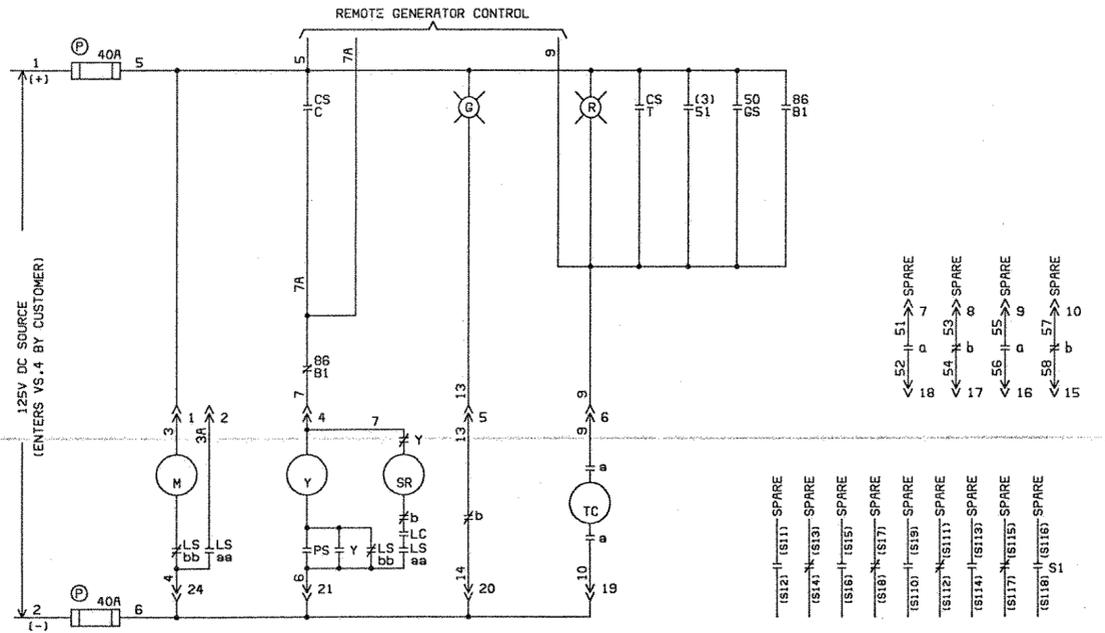
SCHEMATIC FOR FEEDER BREAKER (DEV 52)
VERTICAL SECTION NO. 1A



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



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



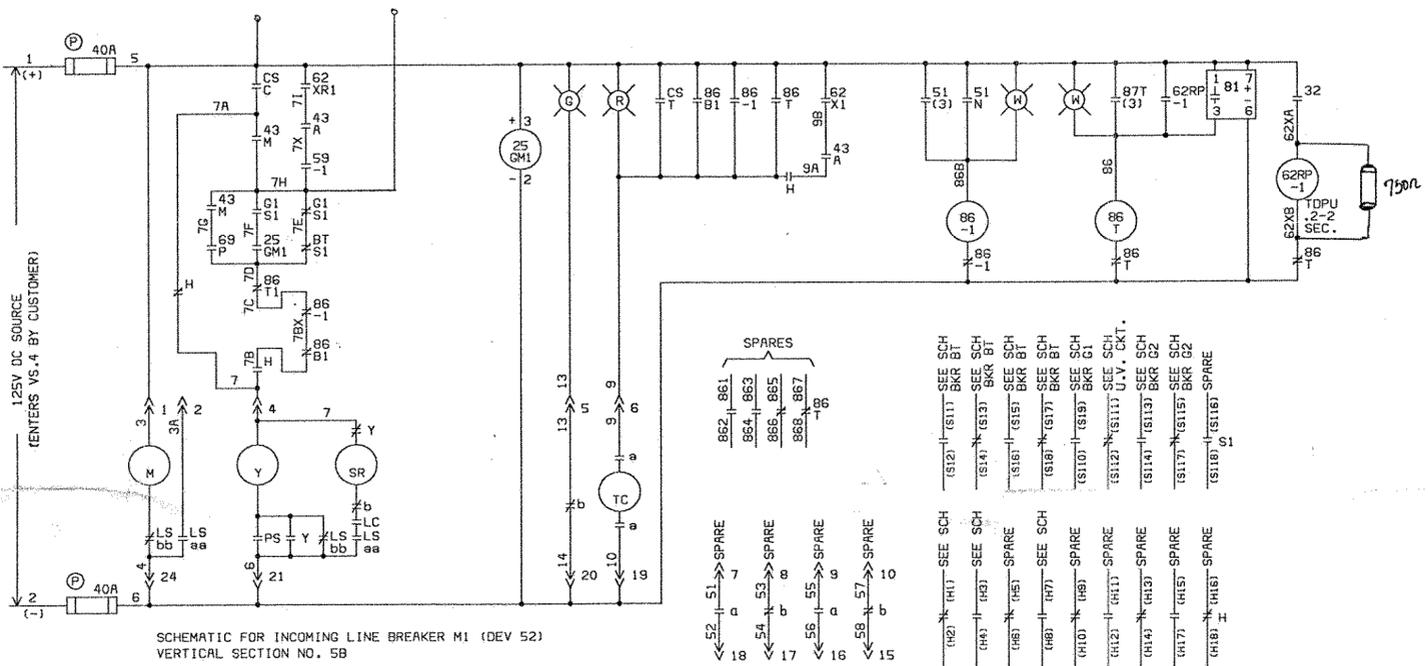
SCHEMATIC FOR FEEDER BREAKER (DEV 52)
VERTICAL SECTION NO. 2B, 3B

1
8.0715588
CHANGE
71Y5588
ADDED 27X1 CONTACT ON
VS. 1A & 1B.
07/23/92
D. NGUYEN
R. FIELDS
R. MATSKO

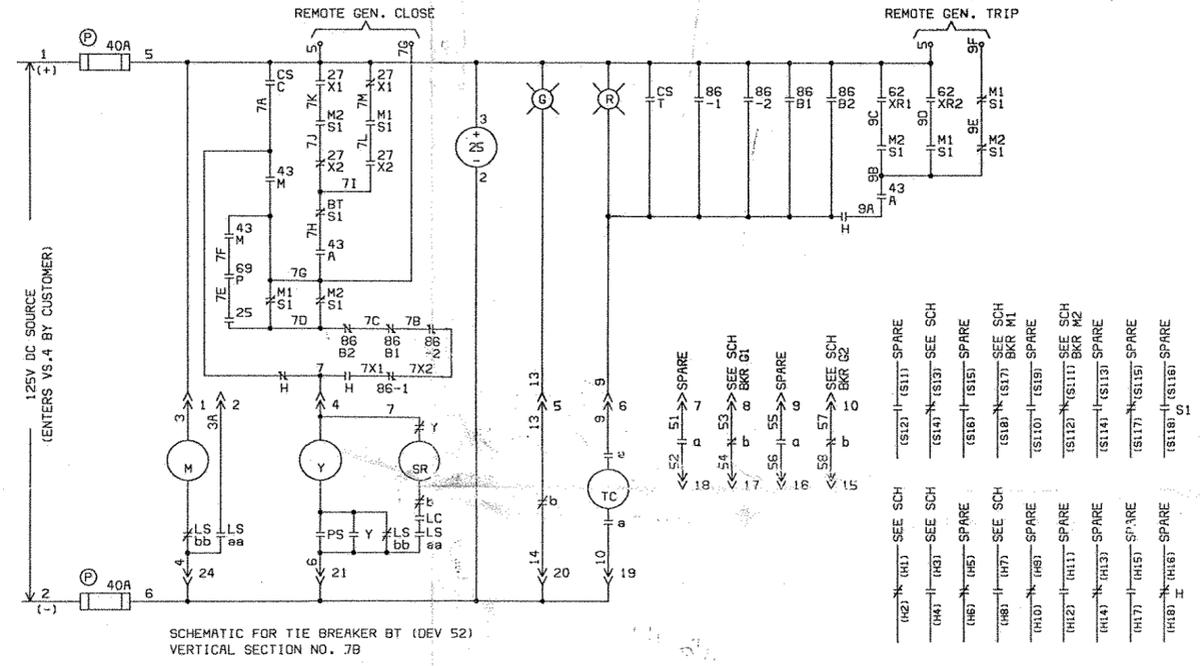
NOTE TO CUSTOMER:
MAKE ALL POWER CONNECTIONS 1-2-3 FROM FRONT TO BACK, LEFT TO RIGHT,
OR TOP TO BOTTOM, AS VIEWED FROM BREAKER DRAWOUT SIDE, REGARDLESS
OF THE PHASE ROTATION. SEE EMO FOR PHASE ROTATION.
LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM
DIAGRAM.
DIAGRAMS DEVICE FUNCTIONS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

NOTE TO SHOP:
DUMMY FUSE (P) SHORT CXT. TERM BLK (SB)
PULL FUSE (P) HEAVY DUTY TERM BLK (HB)

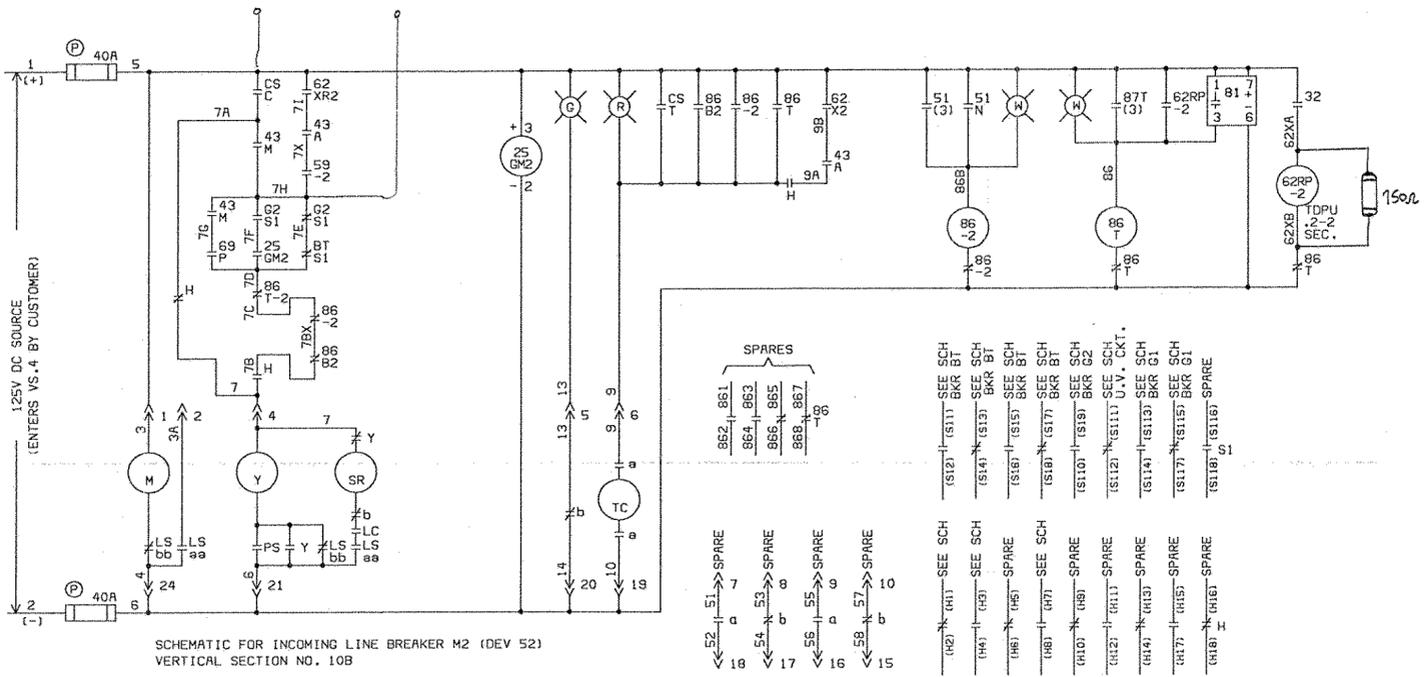
| | | | |
|--------------------|------------------|--|----------------------------|
| DRFTM D. NGUYEN | DATE 88/19/92 | Westinghouse | |
| ENG R. FIELDS | DATE | TITLE SCI MAHONEY PRISON FRACKVILLE, PA. | |
| 6598EMD | 6598EMD | INDOOR VACCLAD-W SWITCHGEAR SCHEMATIC DIAGRAM | |
| R. MATSKO | R. MATSKO | SIZE SHEET 1 OF 1 | 50VCP-W250 6588S01 6062 |



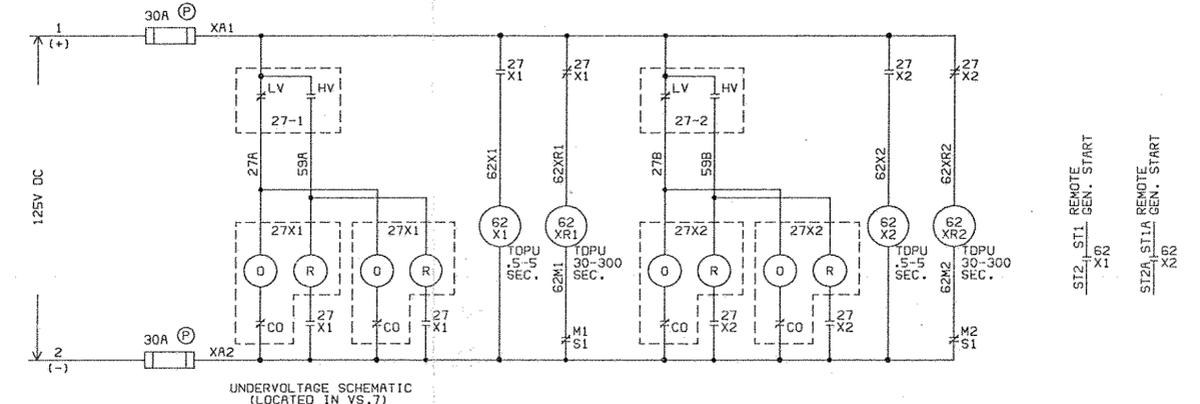
SCHEMATIC FOR INCOMING LINE BREAKER M1 (DEV 52)
VERTICAL SECTION NO. 5B



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 (S18) BKR BT
- (H10) SPARE (S19) BKR G1
- (H12) SEE SCH (S111) BKR G1
- (H14) SEE SCH (S113) BKR G2
- (H17) SEE SCH (S115) BKR G2
- (H18) SEE SCH (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 (S18) BKR BT
- (H10) SPARE (S19) BKR G2
- (H12) SEE SCH (S111) BKR G1
- (H14) SEE SCH (S113) BKR G1
- (H17) SEE SCH (S115) BKR G1
- (H18) SEE SCH (S116) SPARE

- 52-51 SPARE
- 54-53 SPARE
- 56-55 SPARE
- 58-57 SPARE
- (H2) SEE SCH (S12) SPARE
- (H4) SEE SCH (S14) SPARE
- (H6) SPARE (S16) SPARE
- (H8) SEE SCH (S18) BKR M1
- (H10) SPARE (S19) SPARE
- (H12) SEE SCH (S111) BKR M2
- (H14) SPARE (S113) SPARE
- (H17) SPARE (S115) SPARE
- (H18) SPARE (S116) SPARE

- ST2, ST1 GEN. START
- X1
- ST2A, ST1A GEN. START
- X2

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

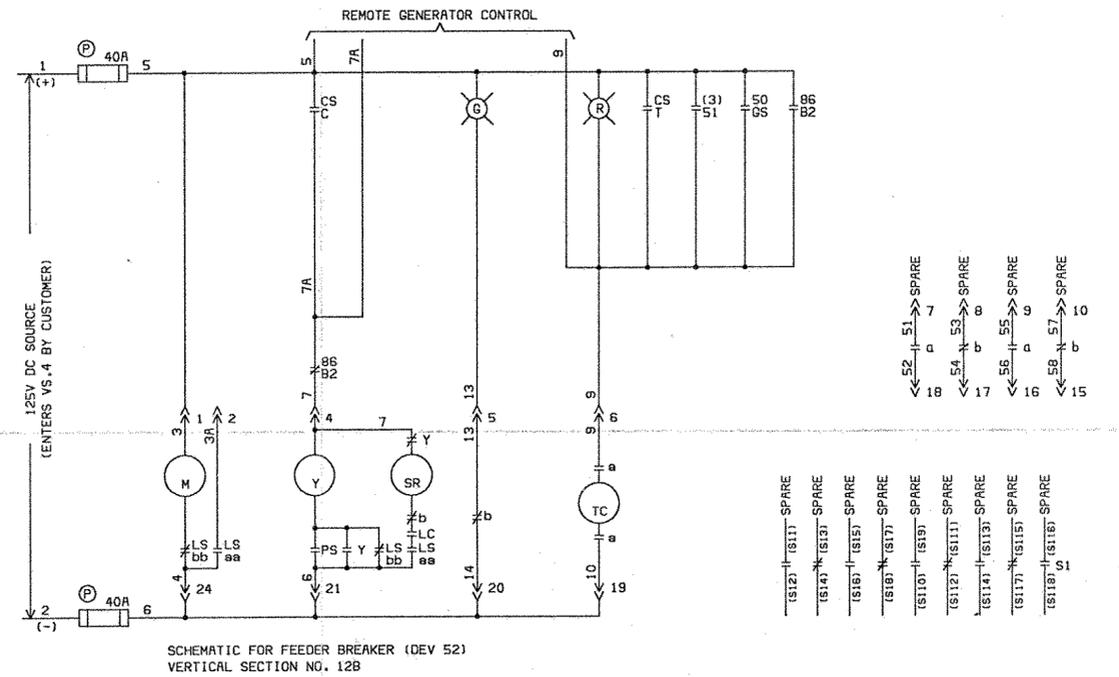
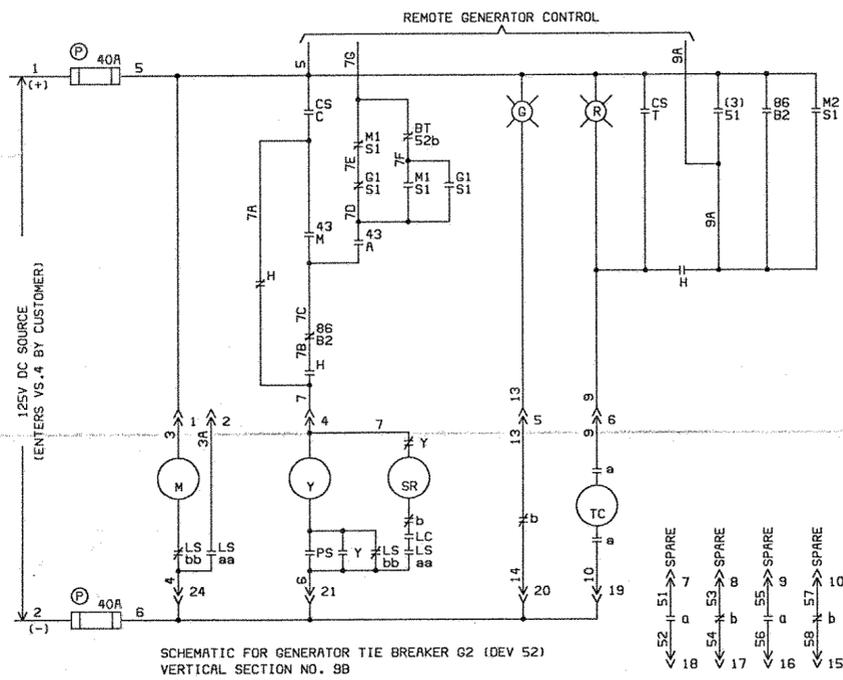
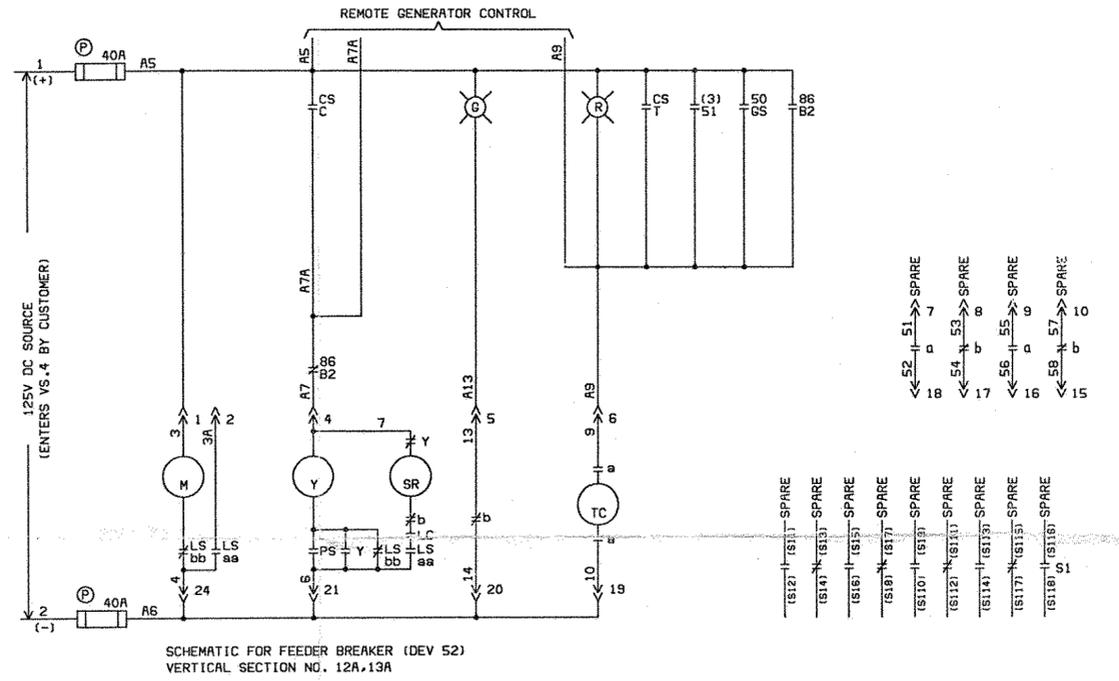
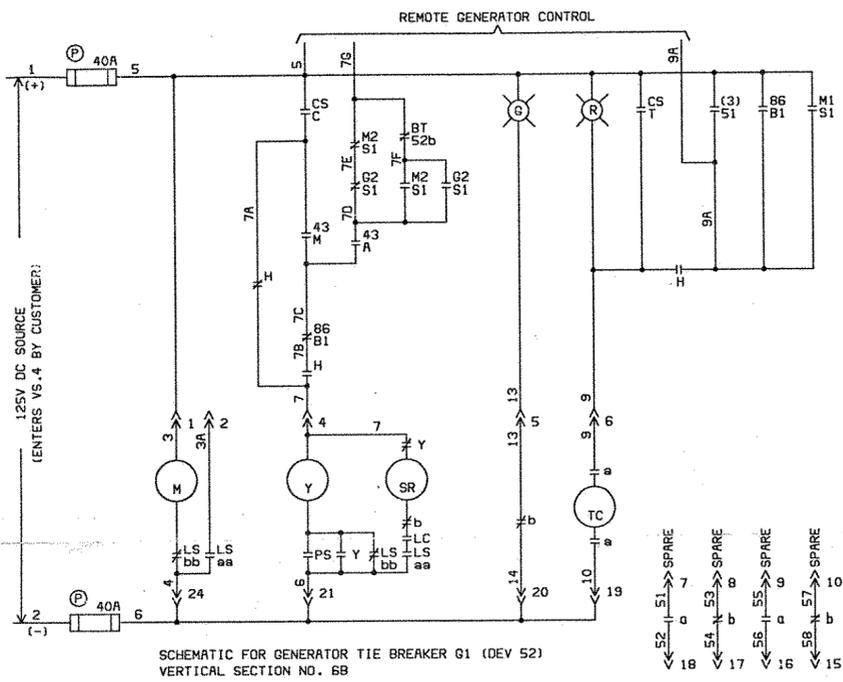
CHARGE: 71Y6588
BKR SCHEMES MODIFIED PER CUSTOMER APPROVAL.
D. NGUYEN
R. FIELDS
R. MATSKO

REVISIONS:
1. ADDED TIME CHANGES, OTHER MINOR CHANGES.
M. LACE
R. FIELDS
R. MATSKO
2. DELETED DEV. 79, 82-1, 12. ADDED 59 CONT. ON BKR SCHEMES VS. 5B & VS. 10B PER CUSTOMER.
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:
DUMMIES: 52, 54, 56, 58
SHORT CKT. TERM BLK: 86, 87, 88, 89, 90, 91
PULL FUSE: 40A, 30A
HEAVY DUTY TERM BLK: 27X1, 27X2

| | | | |
|-------|-----------|---|------------|
| DATE | 08/18/92 | Westinghouse | |
| BY | R. FIELDS | SCI MAHONEY PRISON FRACKVILLE, PA. | |
| DATE | | INDOOR VACUUM SWITCHGEAR SCHEMATIC DIAGRAM | |
| SIZE | | DWG NO. | 50VCP-W250 |
| SHEET | 1 OF 1 | DWG NO. | 6588S02 |
| | | | 6062 |

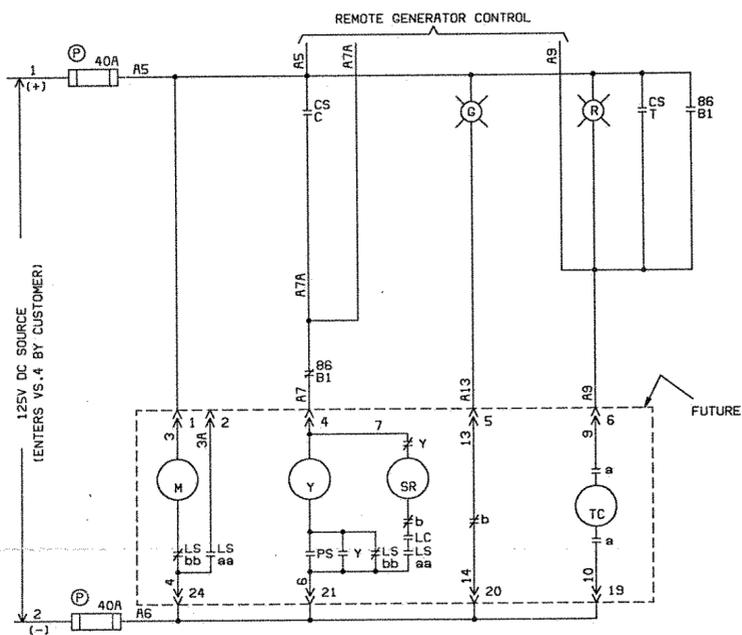


1
S.O. 71Y6588
CHANGE
71Y6588
MODIFIED BKR SCH. VS. 6B
AND VS. 9B.
D. NGUYEN 07/23/92
R. FIELDS
R. MATSKO

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.
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DIAGRAMS-DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.
* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

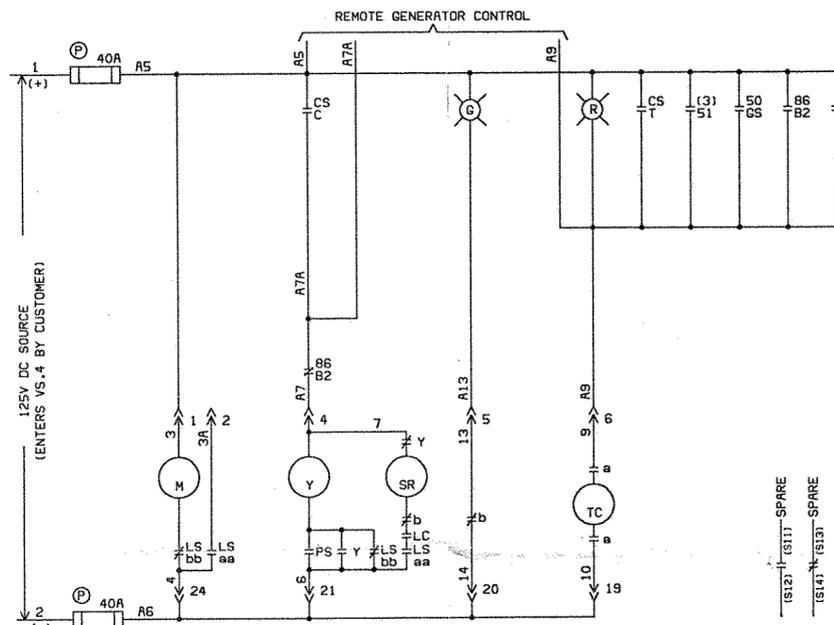
NOTE TO SHOP:
☐ DUMMY FUSE ☐ SHORT CKT. TERM BLK
Ⓟ PULL FUSE Ⓜ HEAVY DUTY TERM BLK

| | | | |
|------|-----------|--|----------|
| 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 |



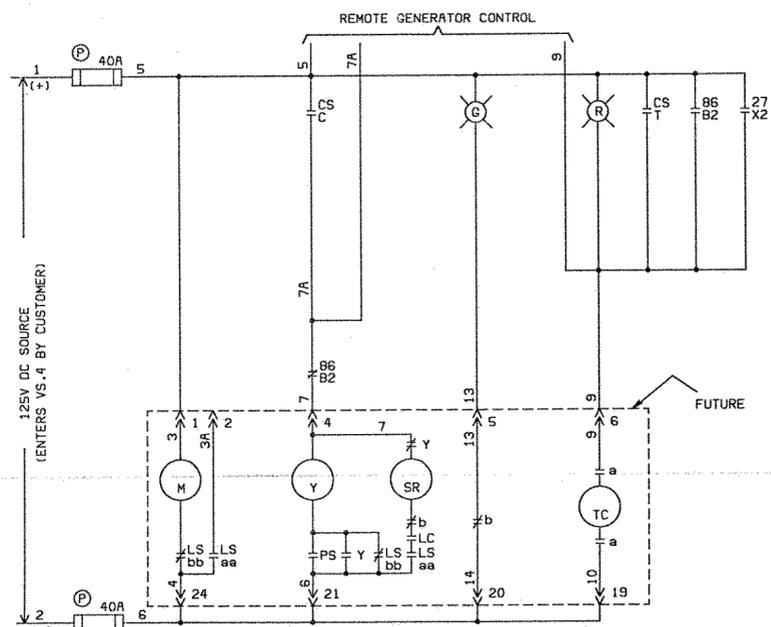
SCHEMATIC FOR FUTURE BREAKER (DEV 52)
VERTICAL SECTION NO. 2A

- (S12) SPARE
 - (S14) SPARE
 - (S15) SPARE
 - (S17) SPARE
 - (S19) SPARE
 - (S111) SPARE
 - (S113) SPARE
 - (S115) SPARE
 - (S117) SPARE
 - (S118) SPARE
- 52 ← SPARE
 54 ← SPARE
 55 ← SPARE
 57 ← SPARE



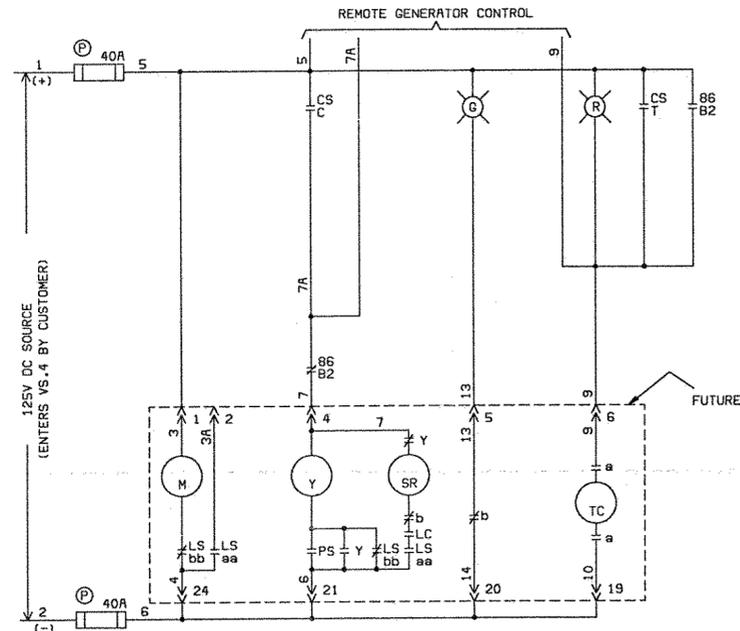
SCHEMATIC FOR FEEDER BREAKER (DEV 52)
VERTICAL SECTION NO. 14A

- (S12) SPARE
 - (S14) SPARE
 - (S15) SPARE
 - (S17) SPARE
 - (S19) SPARE
 - (S111) SPARE
 - (S113) SPARE
 - (S115) SPARE
 - (S117) SPARE
 - (S118) SPARE
- 52 ← SPARE
 54 ← SPARE
 55 ← SPARE
 57 ← 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
- 52 ← SPARE
 54 ← SPARE
 55 ← SPARE
 57 ← 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
- 52 ← SPARE
 54 ← SPARE
 55 ← SPARE
 57 ← SPARE

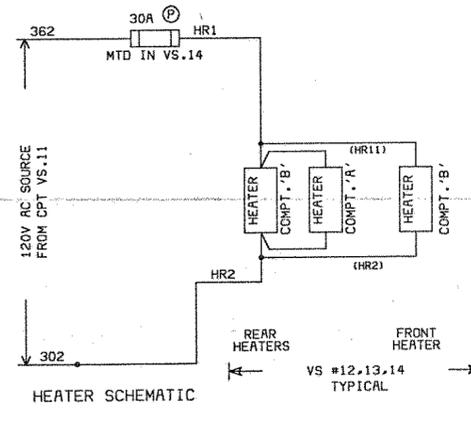
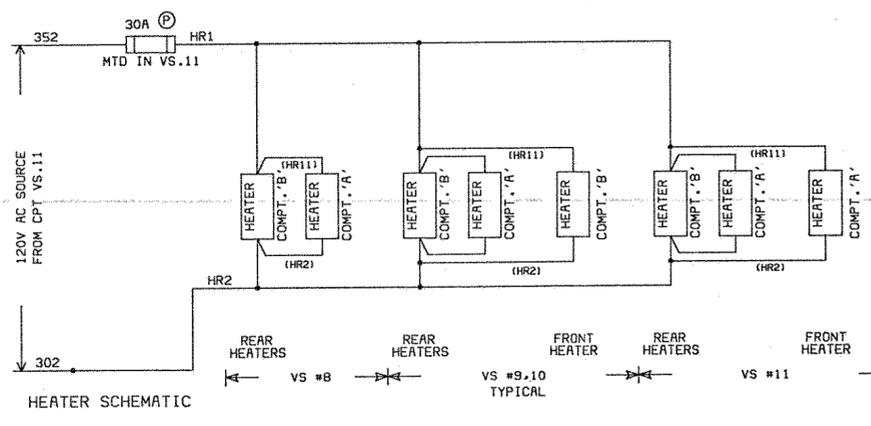
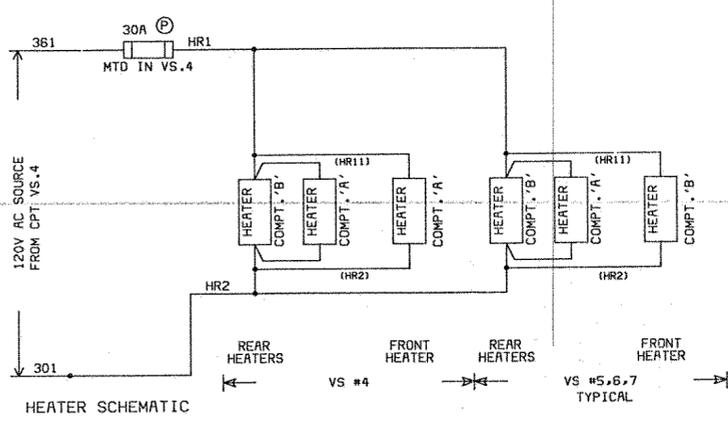
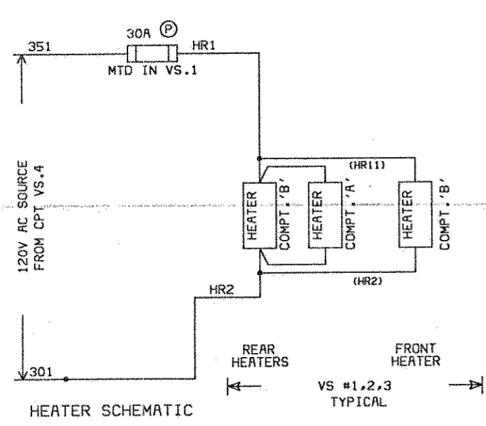
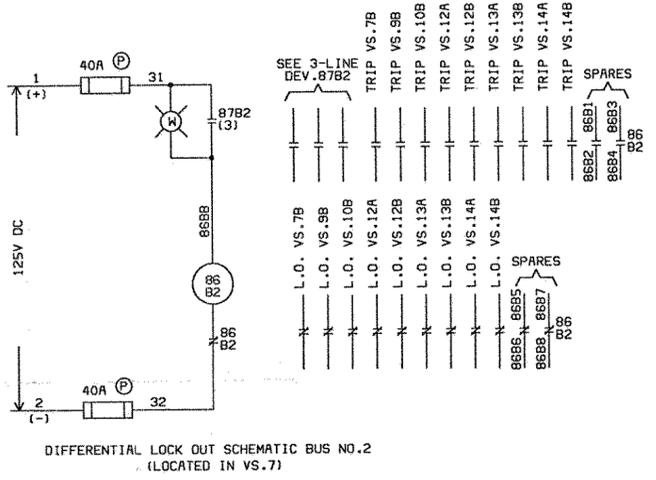
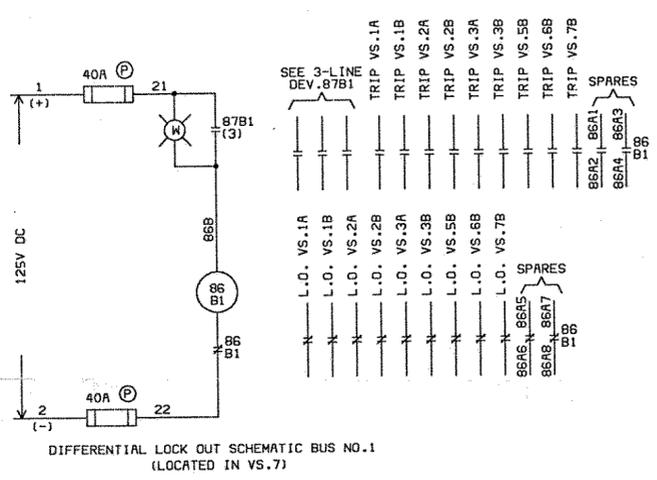
1
S.O. 71V5588
C.H.R. BSHR-45014
CHANGE

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

| | | |
|-----------|---------|---------------------------------------|
| OF TH | DATE | Westinghouse |
| D. HOUYEN | 8/23/92 | |
| ENO | DATE | TITLE |
| R. FIELDS | | SCI MAHONEY PRISON FRACKVILLE, PA. |
| | | INDOOR VACUUM SWITCHGEAR 50VCP-W250 |
| | | SCHEMATIC DIAGRAM |
| SIZE | PSCH NO | DWG NO |
| D | | 6588S04 |
| SHEET | 1 OF 1 | 6062 |

11 10 9 8 7 6 5 4 3 2 1



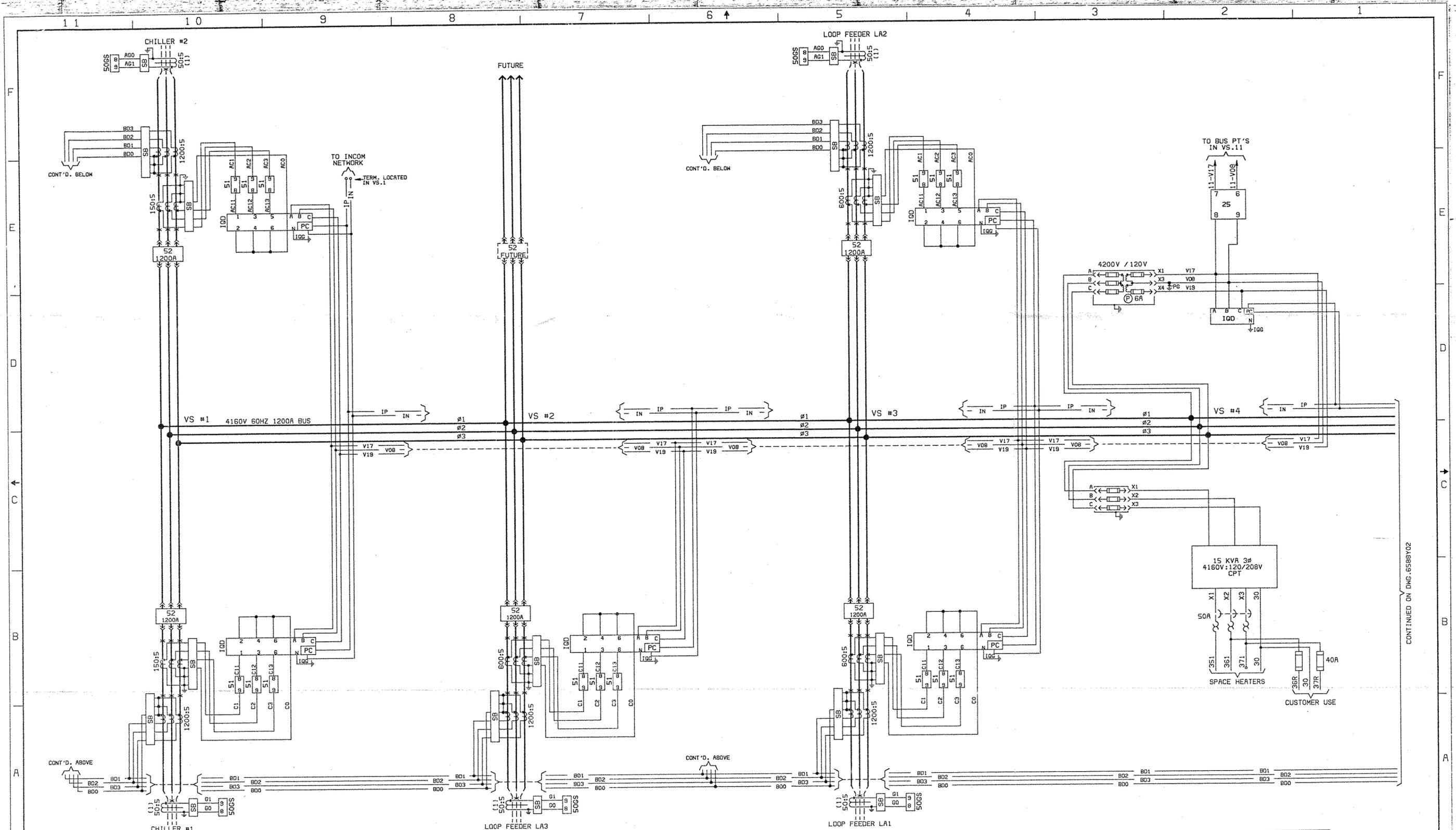
1
S.O. 7116588
G.O. BSHR-45014
CHANGE
7116588
MOVED BRK SCH TO DWG.
6588504
07/23/92
D. NGUYEN
R. FIELDS
R. MATSKO

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 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 SCHEMATIC DIAGRAM | | 50VCP-K250 | |
| SIZE D | SHEET 1 OF 1 | DWG NO 6588S05 | 6062 |

11 10 9 8 7 6 5 4 3 2 1



| | |
|---|--|
| 1 | S.O. 71Y6588 G.O. 95SHR-45014 CHANGE |
| 2 | 71Y6588 C.T.'S REVISED PER C.A.A. & C.E.T. 25 MAR 90 SHOWN. |
| 3 | 07/23/92 D. NGUYEN R. FIELDS R. MATSKO |

| | |
|------------------------------------|----------|
| 71Y6588 | 09/17/92 |
| MINOR WIRE WIRE CHANGE. | |
| WILLIAMS R. FIELDS R. MATSKO | |

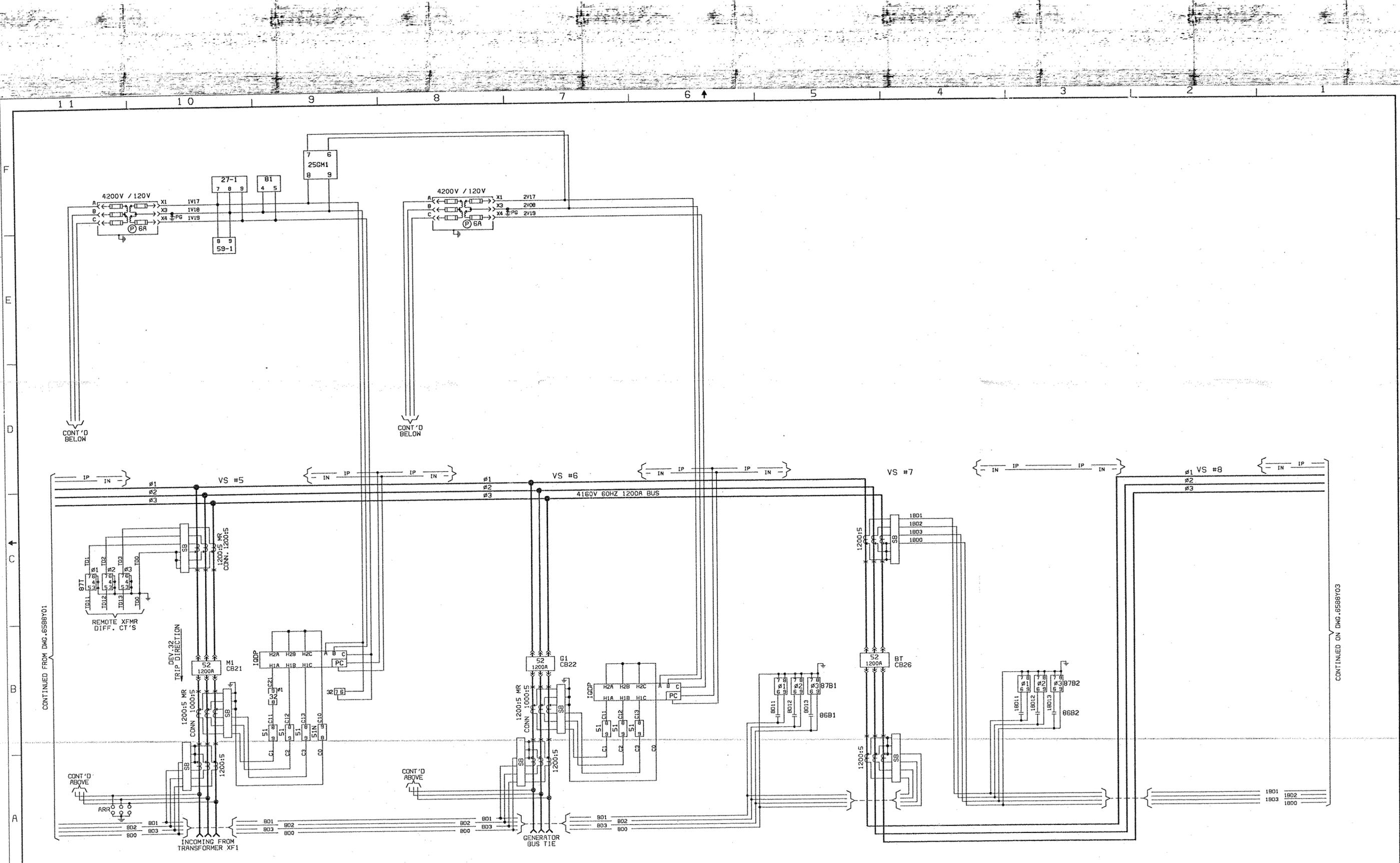
NOTE TO CUSTOMER:
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 LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.
 DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.
 * - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE OR FUTURE EQUIPMENT.

NOTE TO SHOP:

| | | | |
|---|------------|---|---------------------|
| ☐ | DUMMY FUSE | ☐ | SHORT CKT. TERM BLK |
| ⊙ | PULL FUSE | ⊠ | HEAVY DUTY TERM BLK |

| | | | |
|--------------|------------------|--|-------------------|
| 6588BEMD | DATE 88/18/92 | Westinghouse | |
| D. NGUYEN | DATE | TITLE SCI MAHONEY PRISON FRACKVILLE, PA. | |
| R. FIELDS | DATE | INDOOR VACUUM SWITCHGEAR THREE LINE DIAGRAM | |
| R. MATSKO | DATE | SIZE D | DWG NO 6588Y01 |
| SHEET 1 OF 1 | | 6062 | |

CONTINUED ON DWG. 6588Y02



CONTINUED FROM DMG-6588Y01

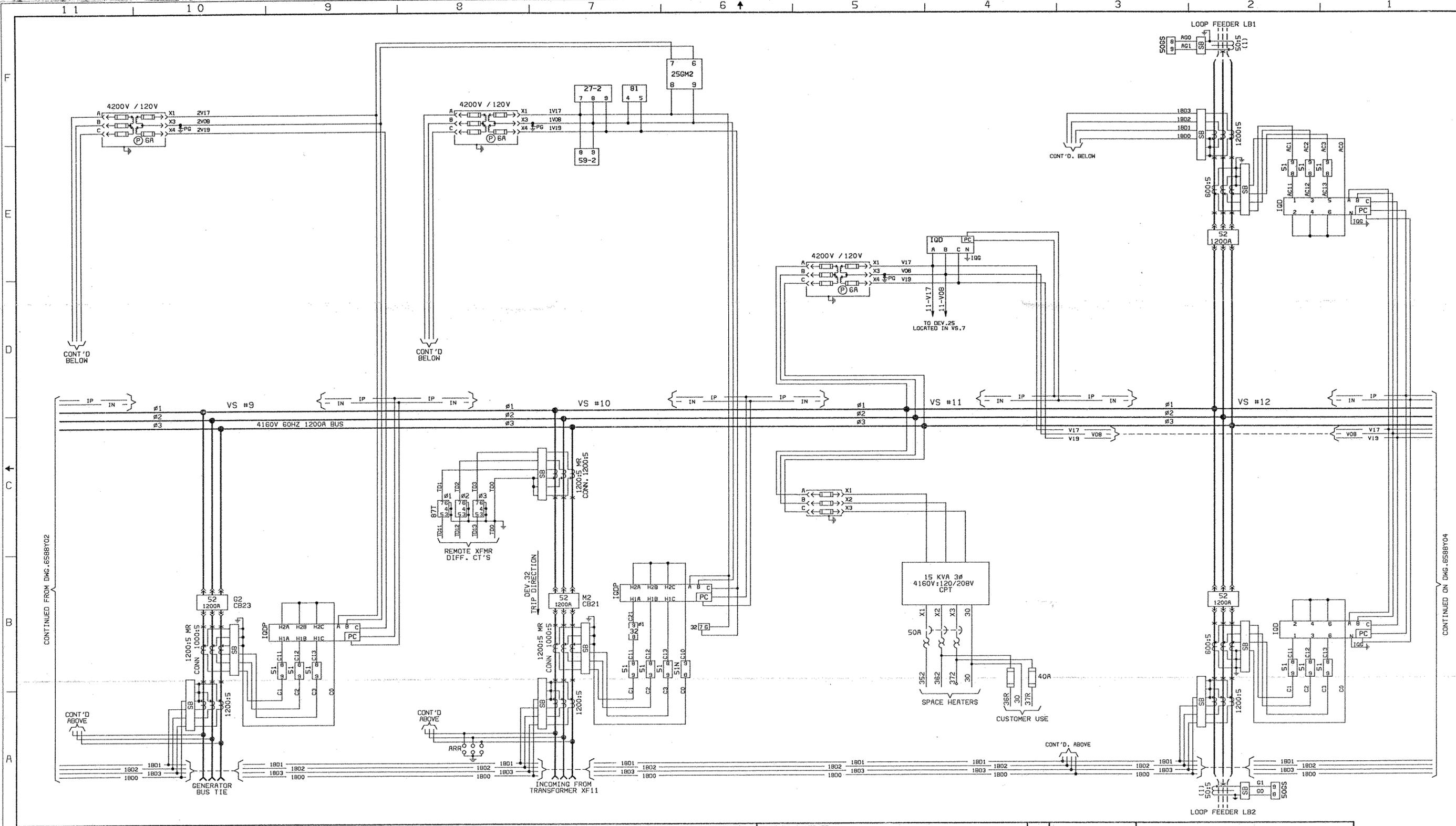
CONTINUED ON DMG-6588Y03

| | | |
|---------------------------------------|---|-----------------------------------|
| 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 RES. 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 | |
| | BY | D. NGUYEN | | |
| 6588END | DATE | | TITLE | |
| | BY | R. FIELDS | SCI MAHONEY PRISON FRACKVILLE, PA. | |
| 6588END | DATE | | INDOOR VACCLAD-W SWITCHGEAR | |
| | BY | R. MATSKO | 50VCP-W250 | |
| THREE LINE DIAGRAM | | | Dwg No | |
| SIZE | | | 6588Y02 | |
| SHEET | | | 1 OF 1 | |
| | | | 6062 | |



| | |
|---|--|
| 1 | 6.0.71Y6588 CHANGE 6.0.BSHR-45014 |
| 2 | 71Y6588 OT'S R.FIELDS MODIFIED W/REVISIONS TO 51'S & CHANGED 51/50 TO 51'S. |
| 3 | D. NGUYEN 07/23/92 R. FIELDS 71Y6588 REMOVE SB REM. ALARM. R. MATSKO D. NGUYEN 01/22/93 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.

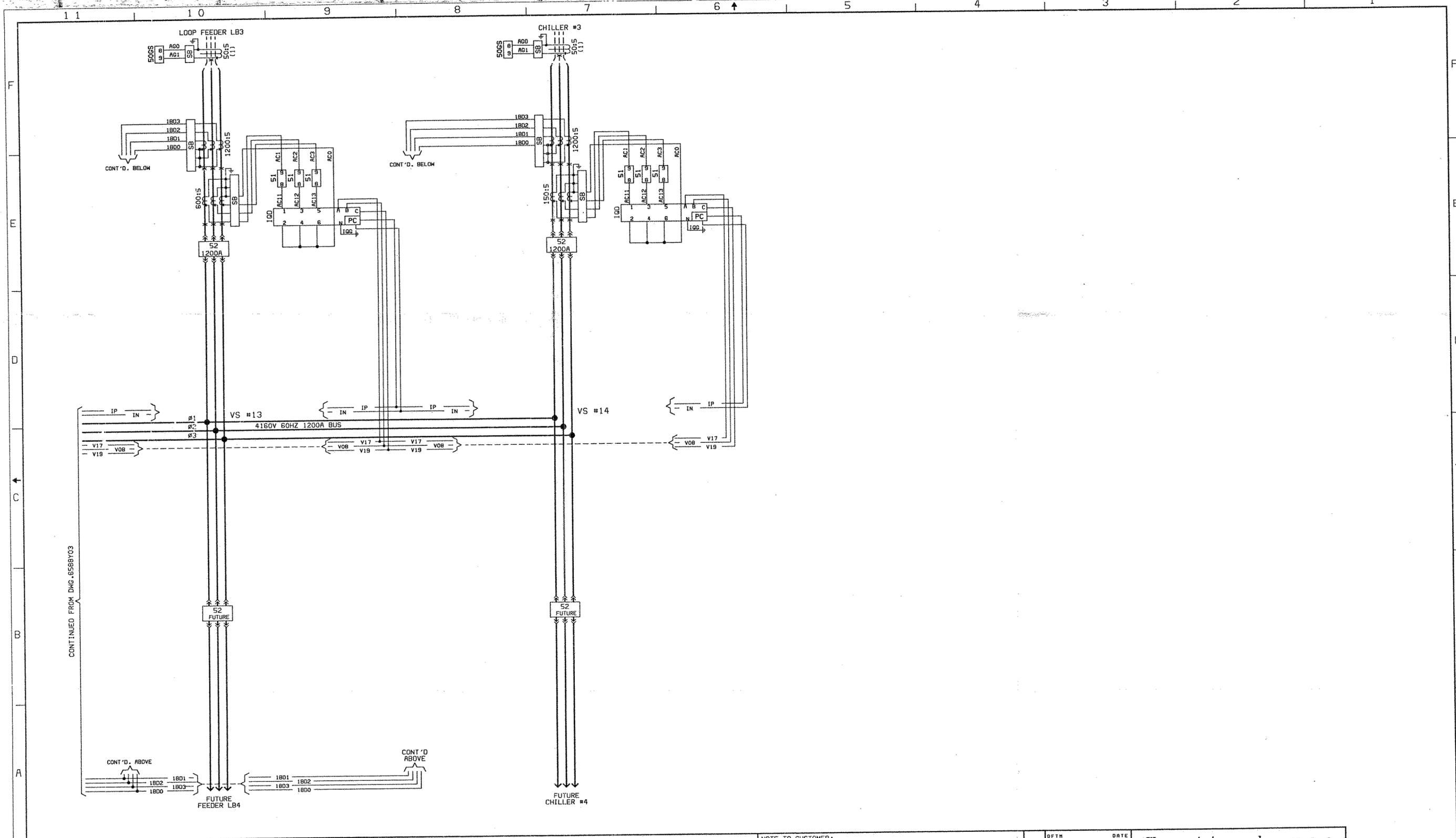
NOTE TO SHOP:

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

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

CONTINUED FROM DWG. 6588Y02

CONTINUED ON DWG. 6588Y04



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

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

| | | | | | |
|-----------|--|------------------|--|--|--|
| 6568END | | DATE 08/18/92 | | Westinghouse | |
| D. NGUYEN | | DATE | | TITLE SCI MAHONEY PRISON FRACKVILLE, PA. | |
| R. FIELDS | | DATE | | INDOOR VACCLAD-W SWITCHGEAR 50VCP-W250 | |
| R. MATSKO | | DATE | | THREE LINE DIAGRAM | |
| SIZE | | FSCN NO | | DWO NO | |
| D | | 1 OF 1 | | 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 |
| | | | | | |
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* - 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 | 6585MILL | 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

Li. .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

| tm | 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

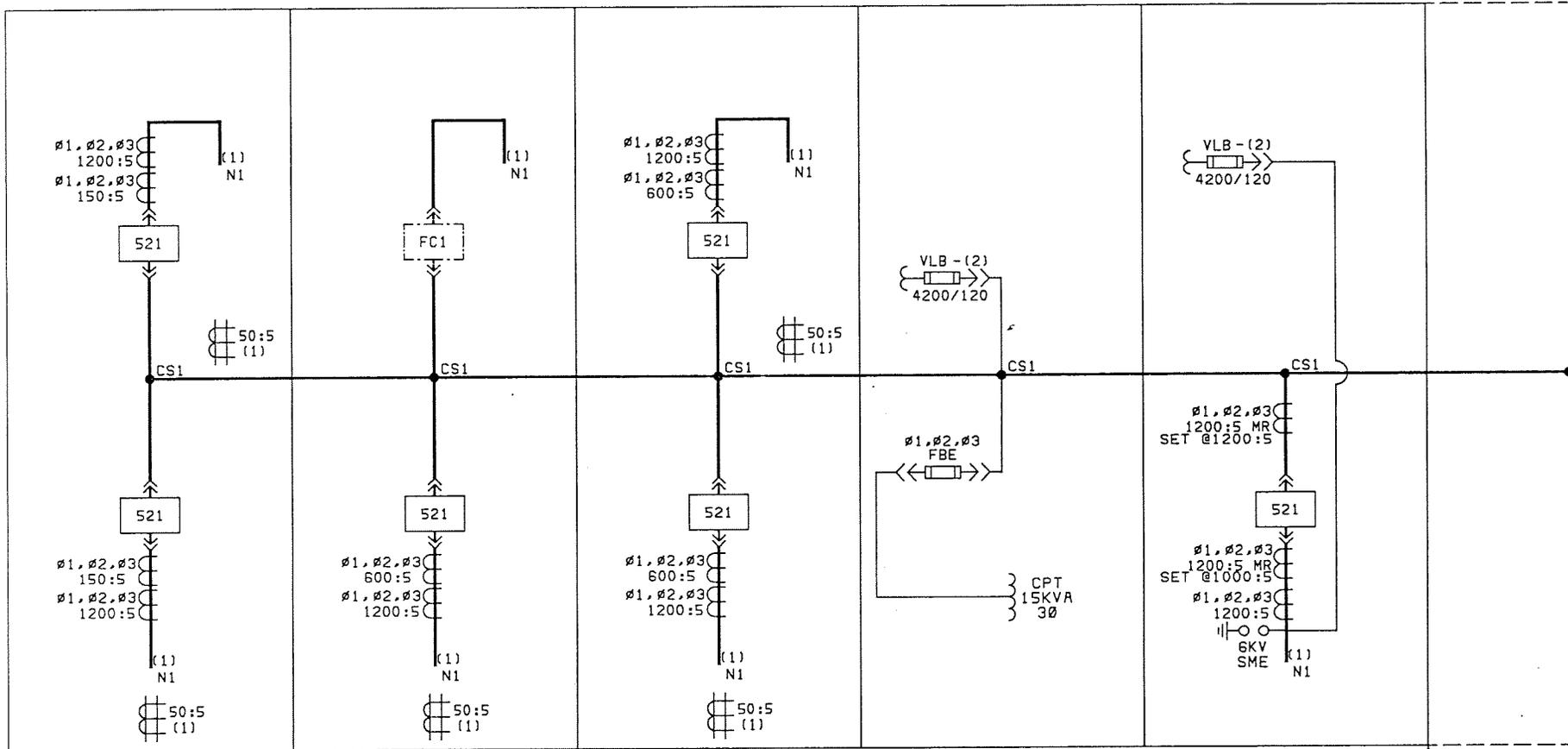
MISCELLANEOUS EQUIPMENT

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

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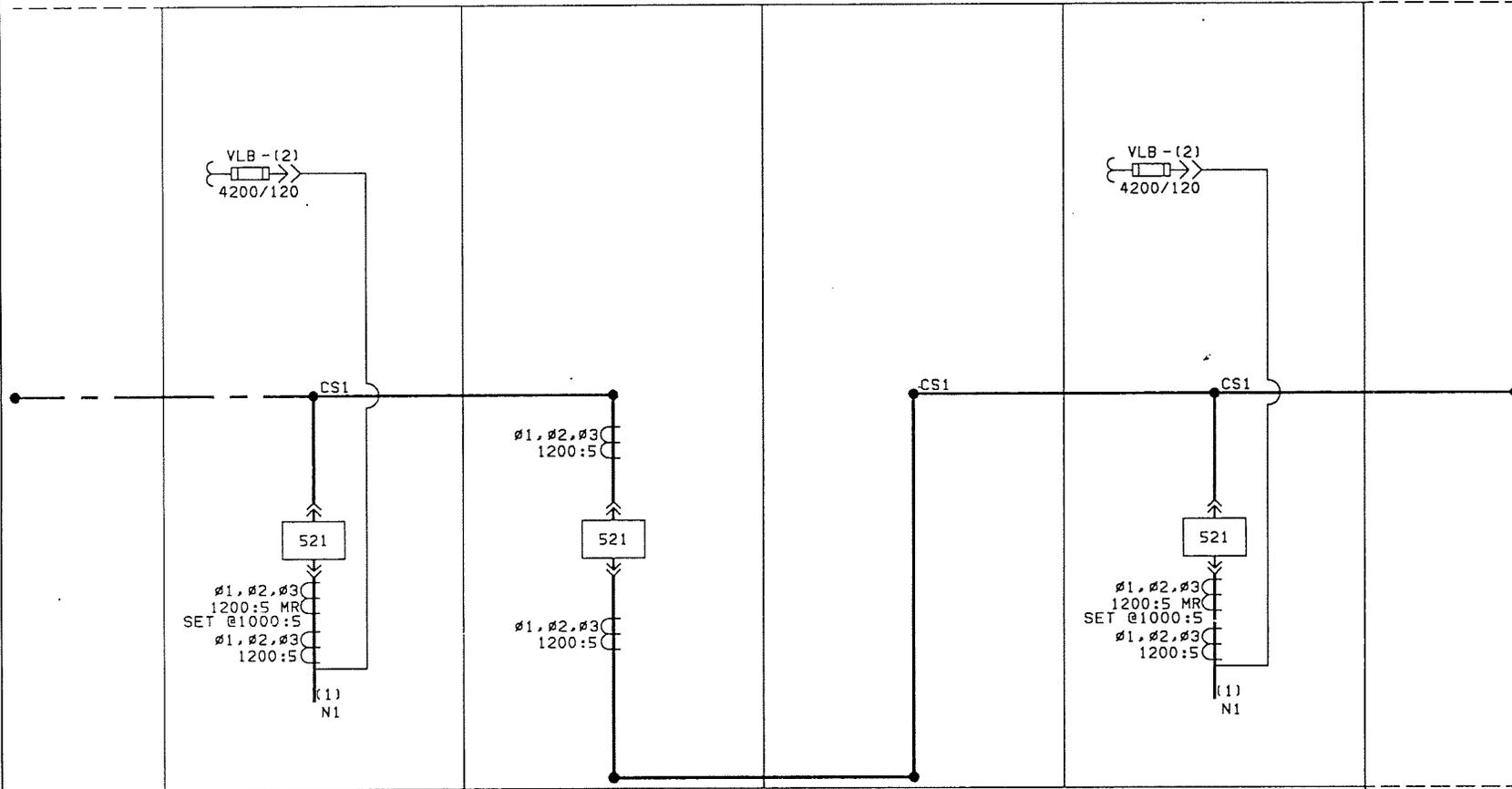
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| | REV 1 2 | S.G.1 | 1 OF 3 | DWG NO. 6588MOL | |

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



SHIPPING SPLIT

WEST. V.S. NO. 6

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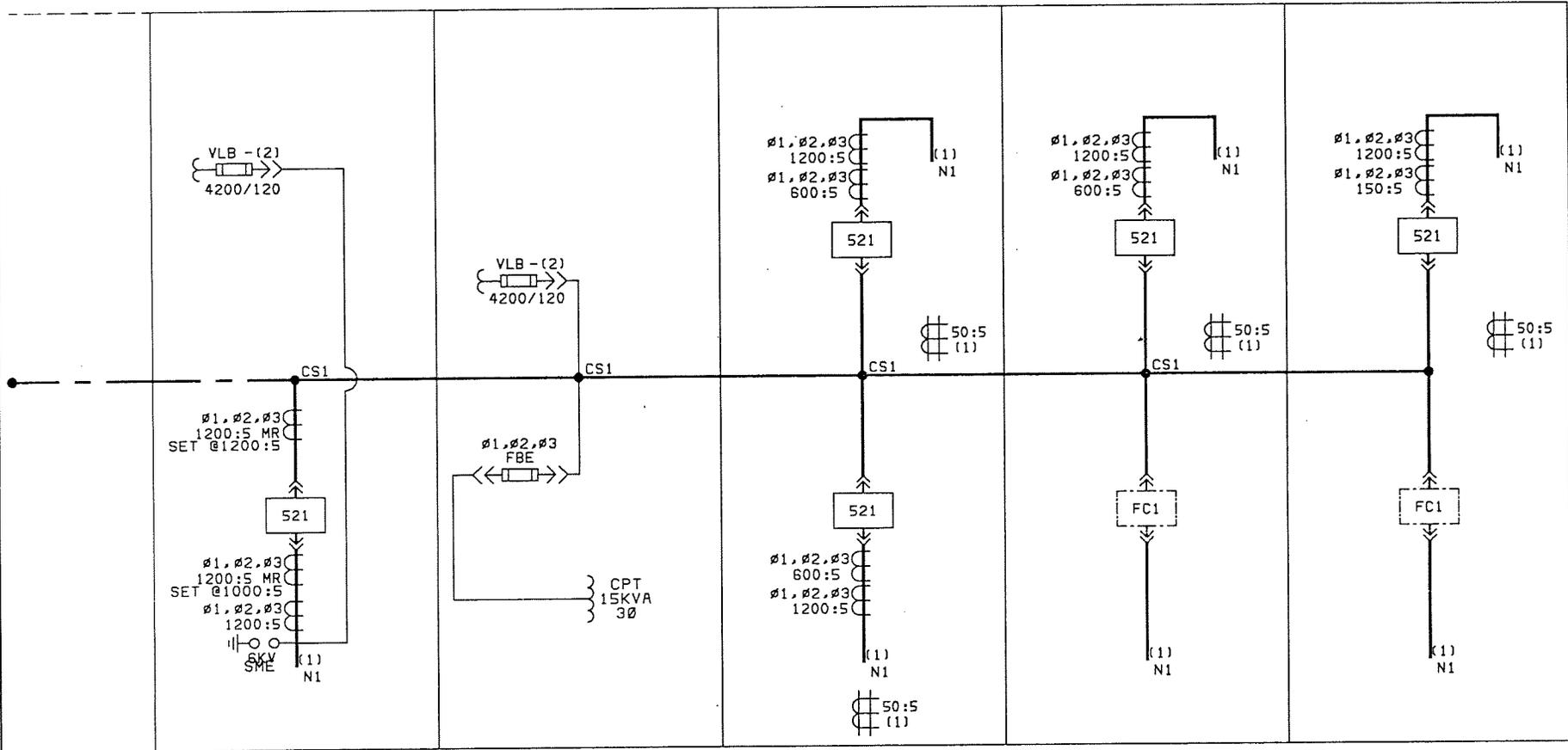
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| | | | | SHEET 2 OF 3 | DWG NO. 6588MOL |
| REV 1 2 | S.G.2 | | | | |

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

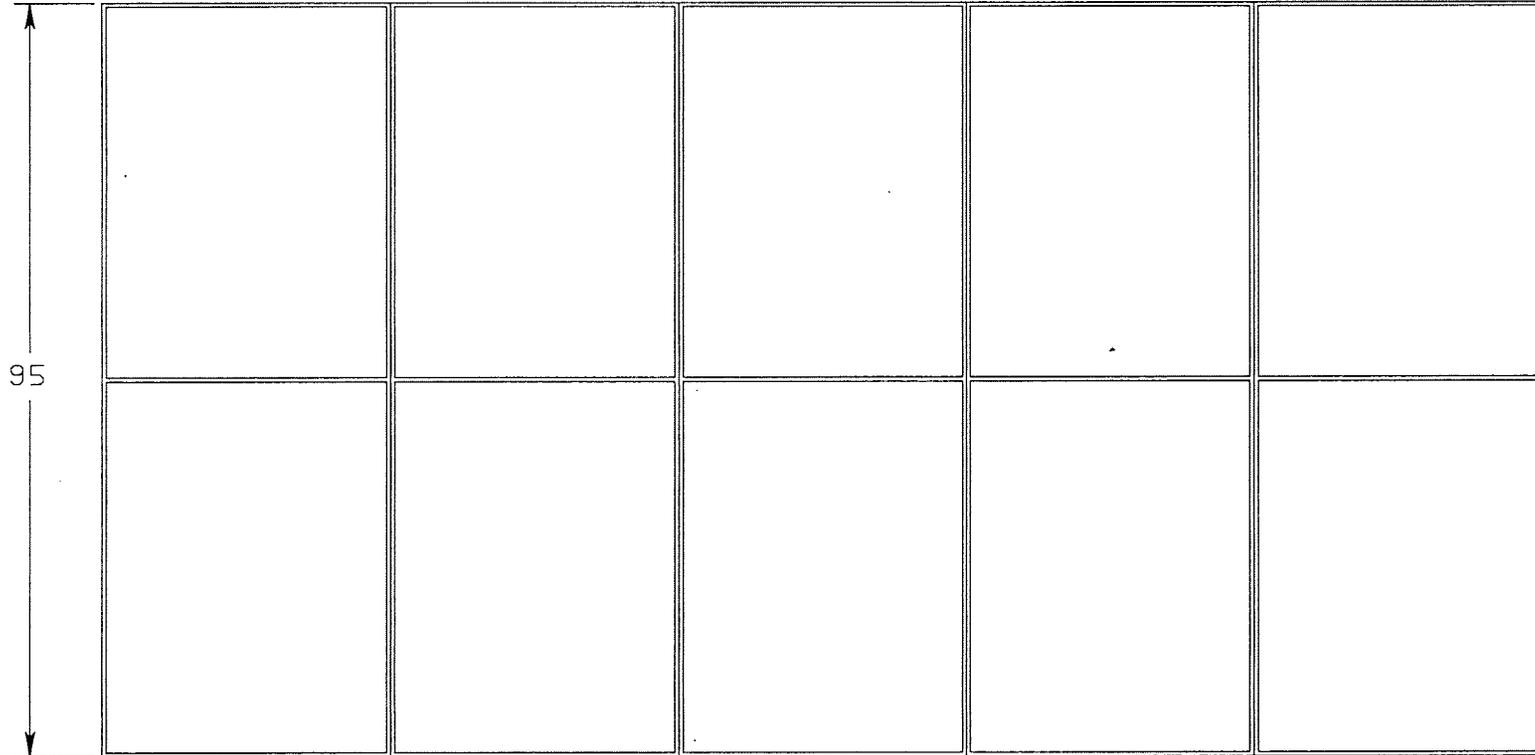
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DWG NO.

6588MOL

REV 1 2

S.G.3



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WEST. V.S. NO.

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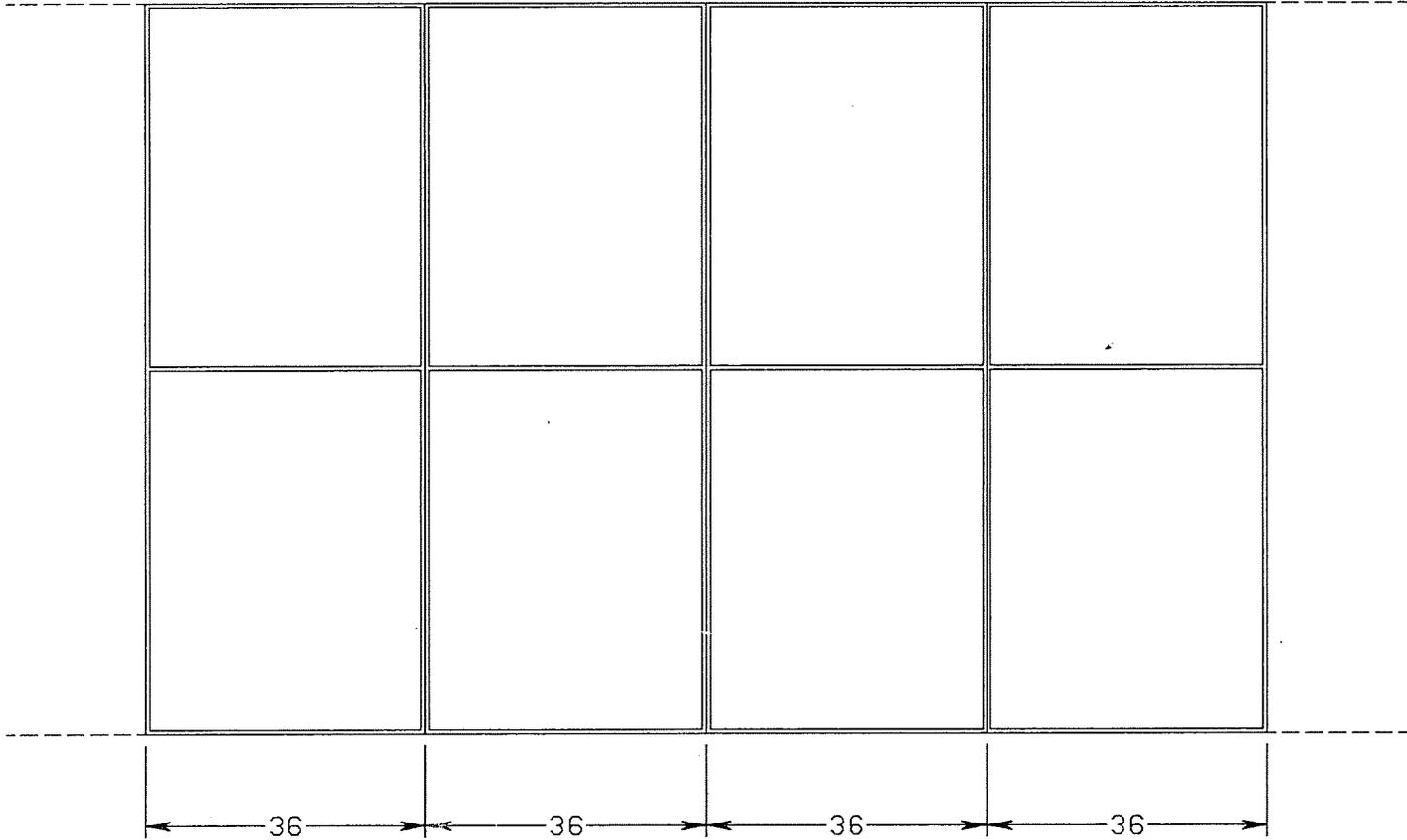
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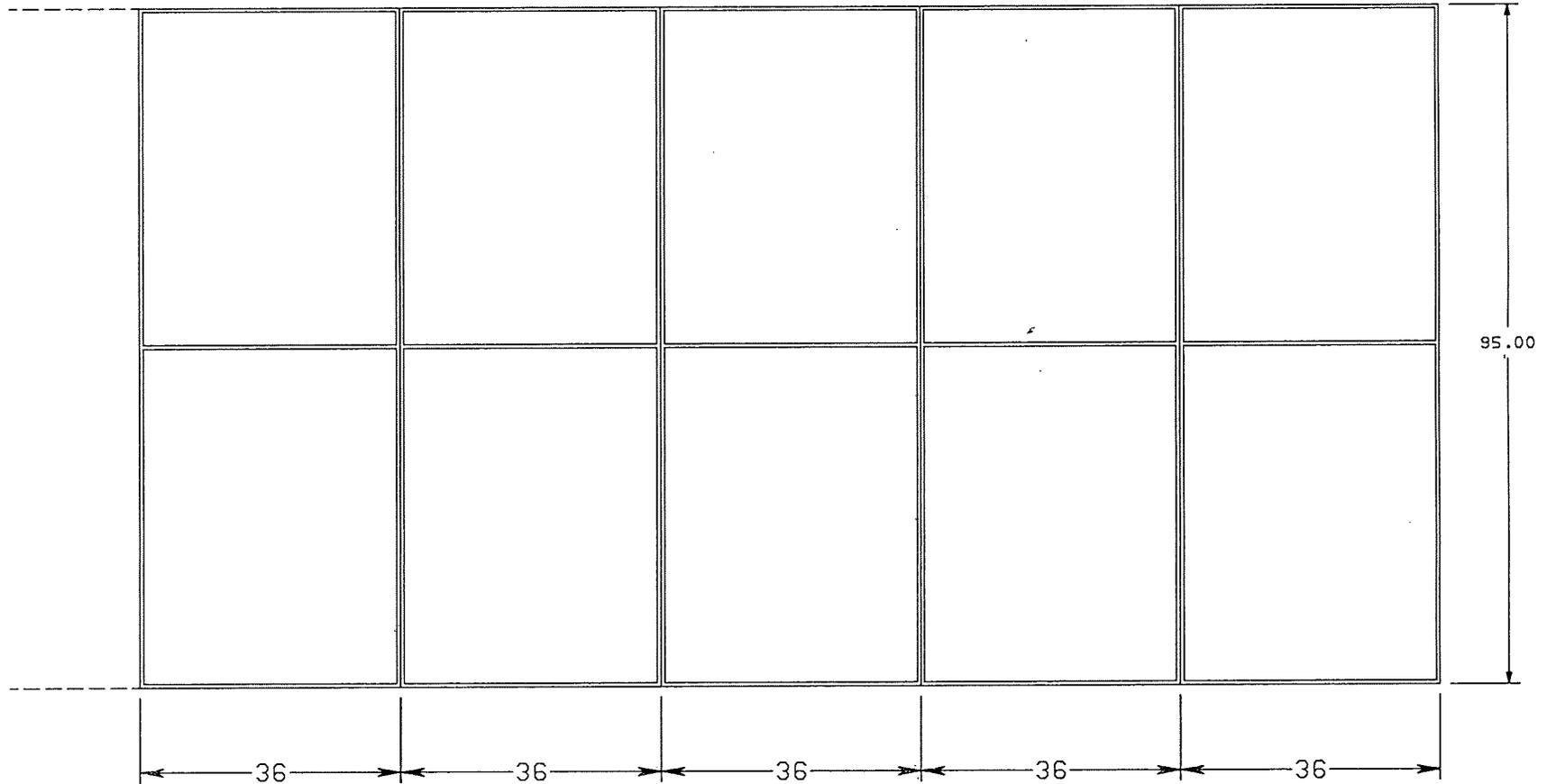
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| | | | S.G.1 | SHEET 1 OF 6 | DWG NO. 6588MEL |
| REV 1 2 | | | | | |



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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.

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CUST. NO.



WESTINGHOUSE
GREENWOOD, SC

G.O.#
BSHR45014-MVA

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8-7-92

TITLE FRONT ELEVATION

SHEET

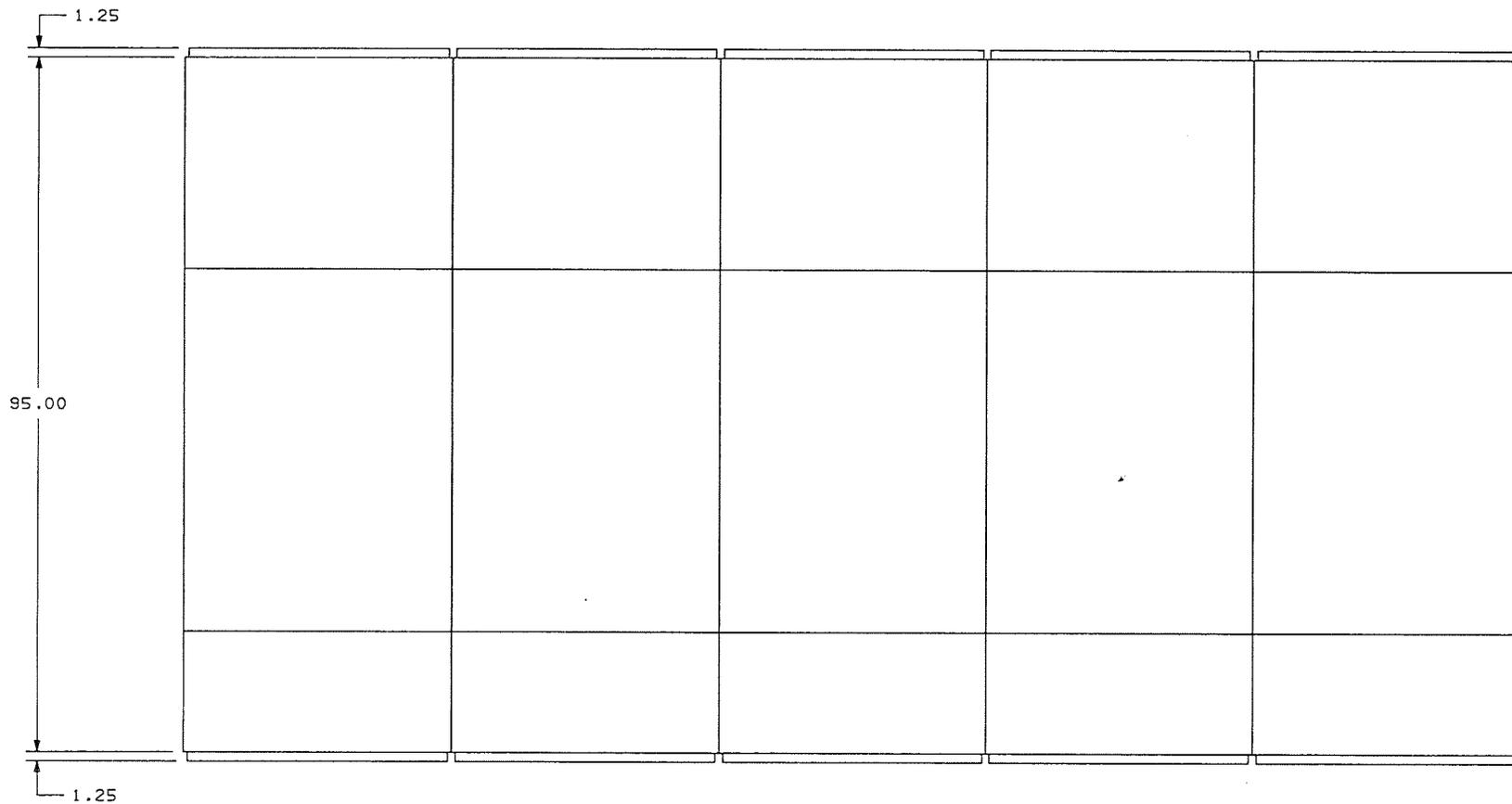
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6588MEL

REV 1 2

S.G.3

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|  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 | |

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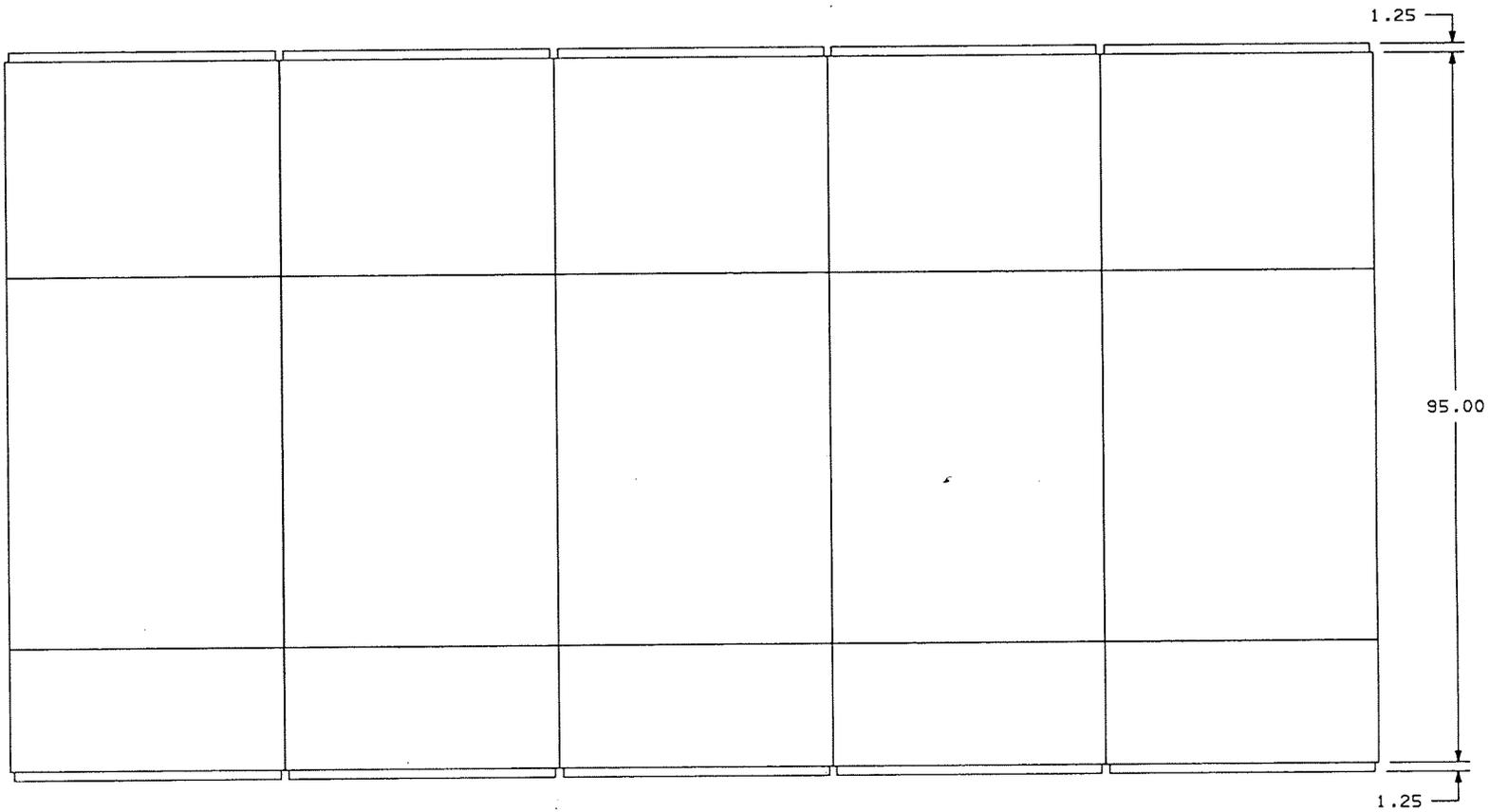
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| | | | | SHEET 5 OF 6 | DWG NO. 6588MEL |
| REV 1 2 | S.G.2 | | | | |



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

SHEET

6 OF 6

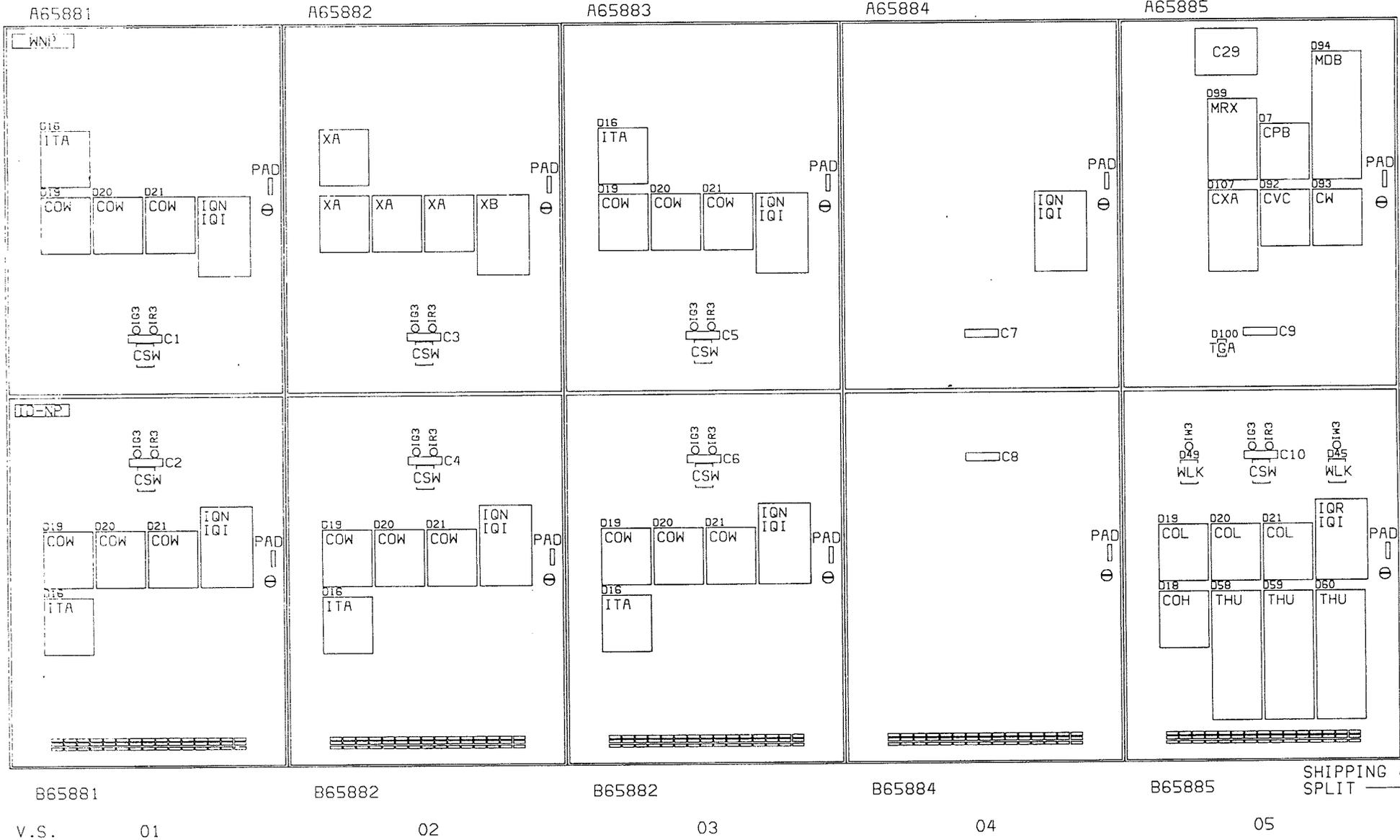
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6588MEL

REV | 1 | 2

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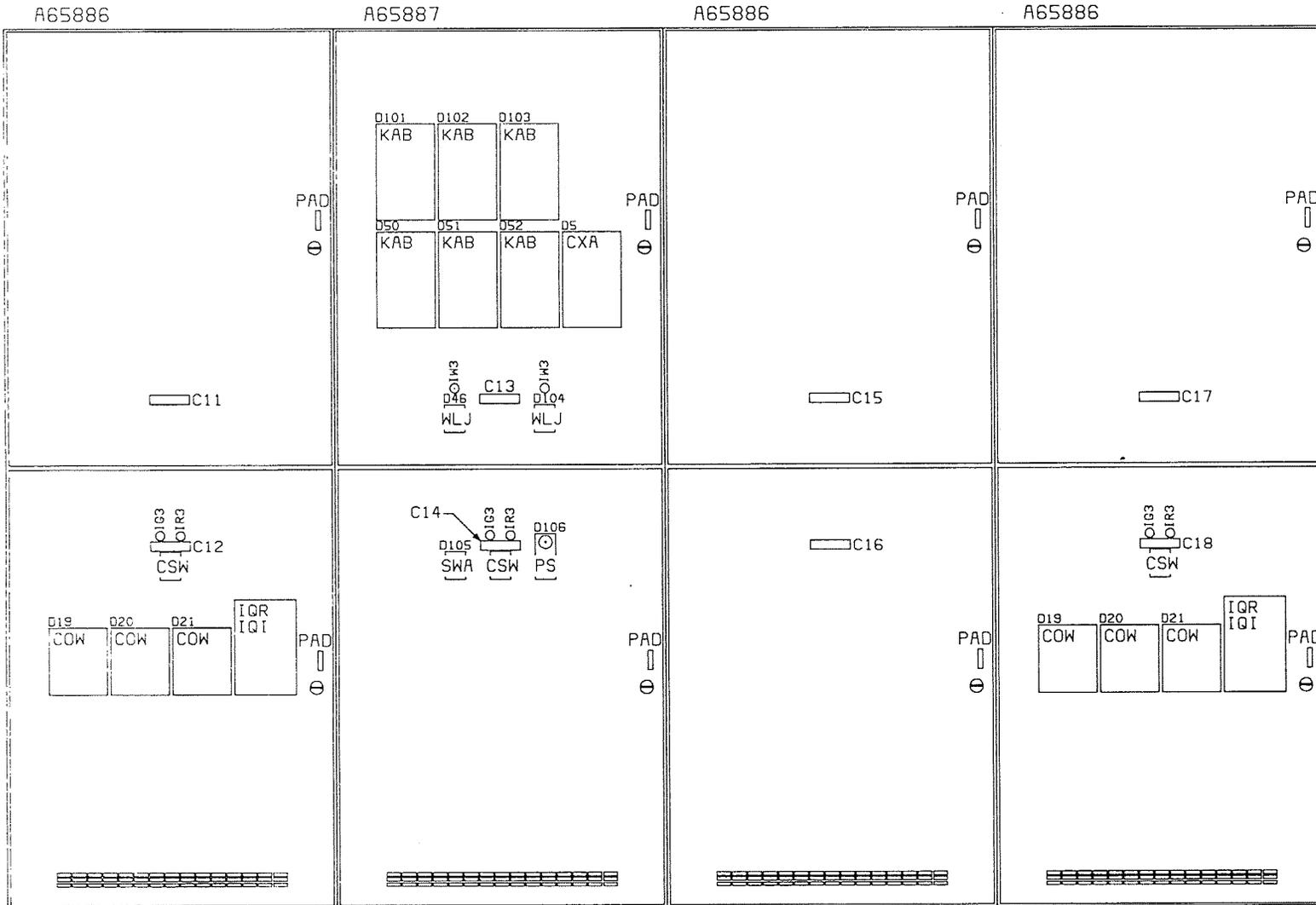
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SHIPPING SPLIT →

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| | | | | SHEET 1 OF 3 | DWG NO. 6588MHP |
| REV 1 2 3 | | | | | |

SEE DRAWING WITH SUFFIX MNP FOR NAMEPLATE ENGRAVING

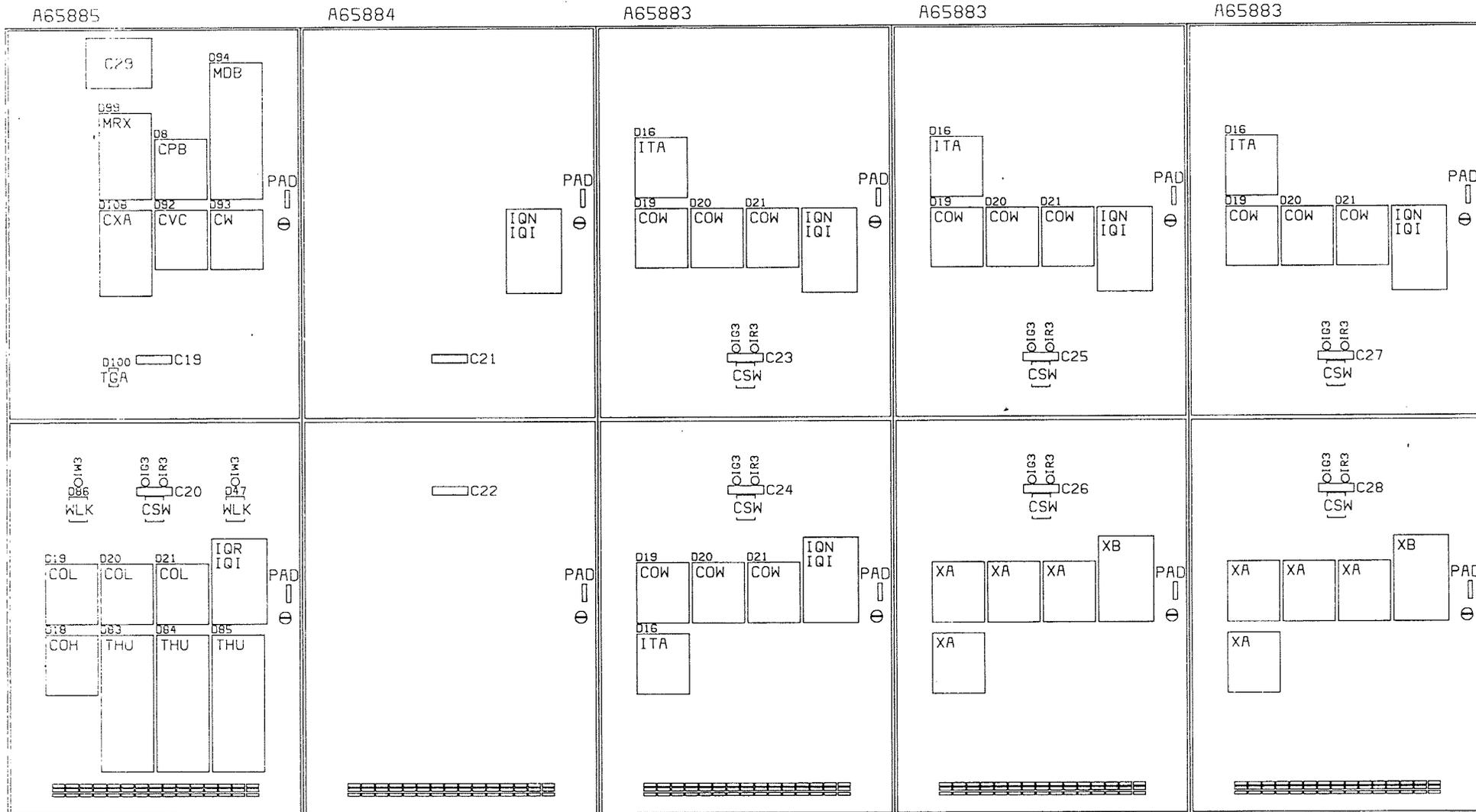


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| | | | | SHEET | DWG NO. |
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SEE DRAWING WITH SUFFIX MNP FOR NAMEPLATE ENGRAVING



V.S. 10

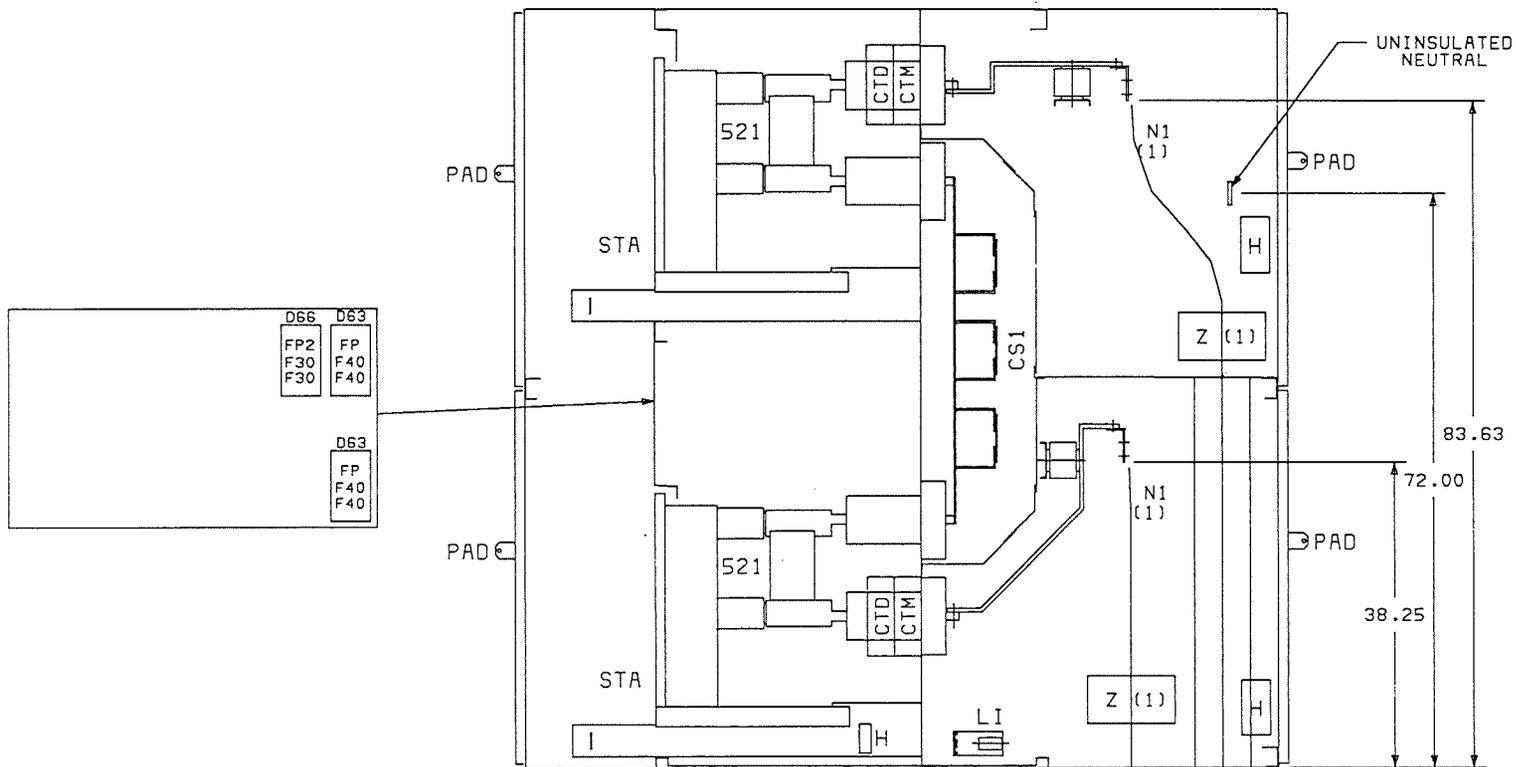
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| | | | | SHEET | DWG NO. |
| REV 1 2 3 | | | | 3 OF 3 | 6588MHP |



WEST. V.S. NO.

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CUST. NO.



WESTINGHOUSE
GREENWOOD, SC

G.O.#
BSHR45014-MVA

DFTR
HILL

DATE
8-7-92

TITLE SECTIONAL SIDE VIEW

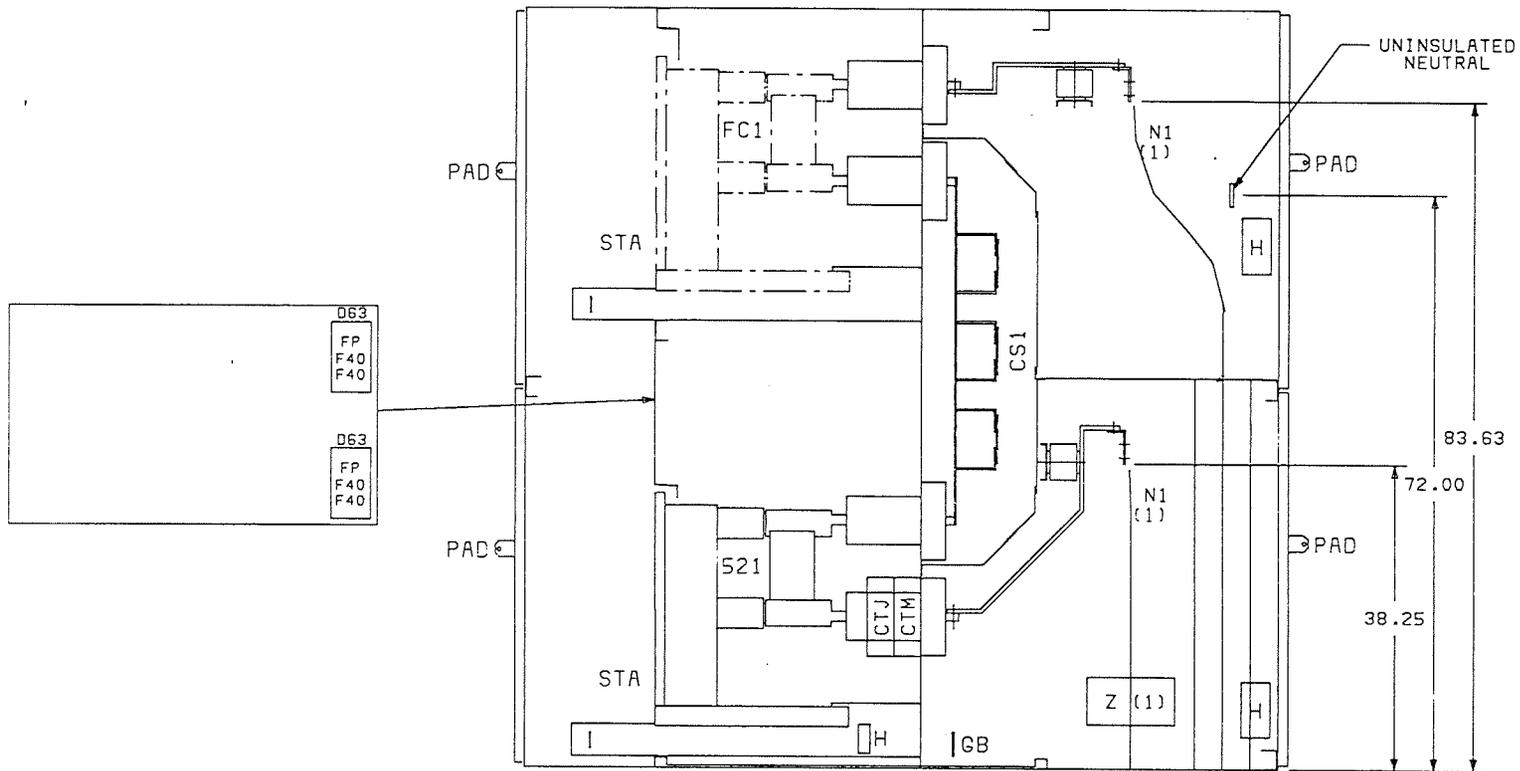
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DWG NO.

6588MSV

REV 1 2 3

S.G.1-V.S.1

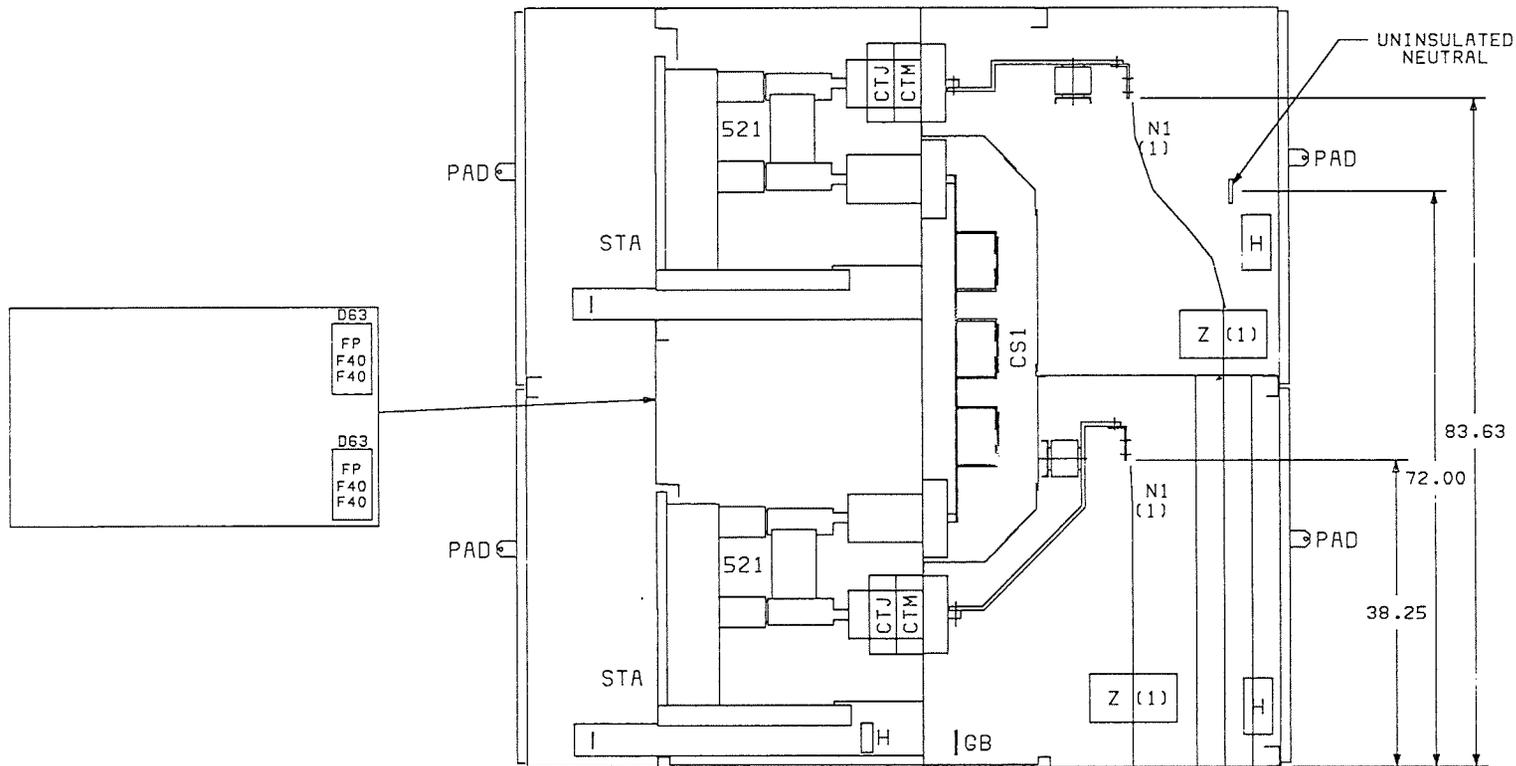


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|  WESTINGHOUSE GREENWOOD, SC | G.O.# BSHR45014-MVA | DFTR HILL | DATE 8-7-92 | TITLE SECTIONAL SIDE VIEW | |
| | | | | SHEET 2 OF 14 | DWG NO. 6588MSV |
| REV 1 2 3 | S.G.1-V.S.2 | | | | |



WEST. V.S. NO.

3

CUST. NO.



WESTINGHOUSE
GREENWOOD, SC

G.O.#
BSHR45014-MVA

DFTR
HILL

DATE
8-7-92

TITLE SECTIONAL SIDE VIEW

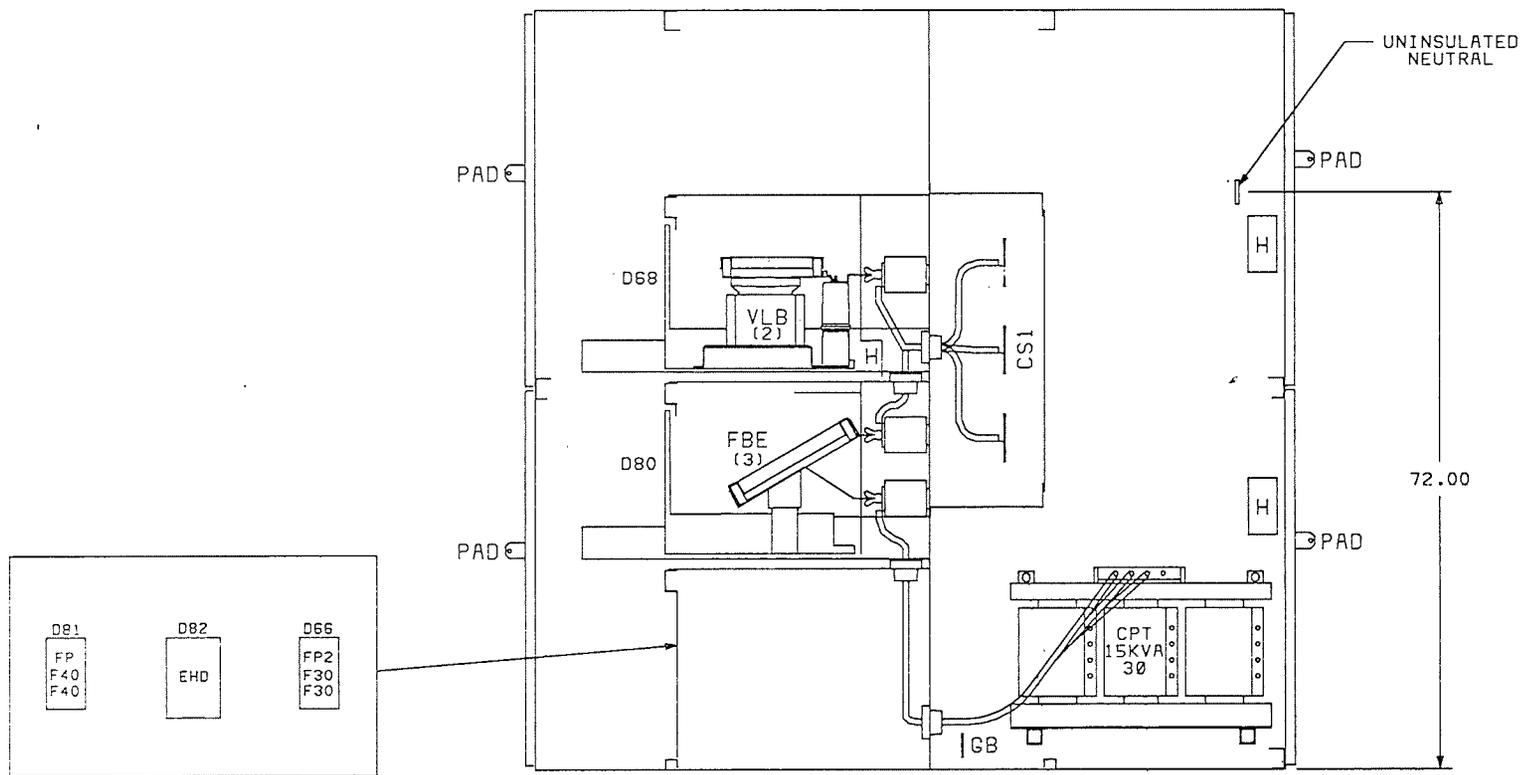
SHEET
3 OF 14

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

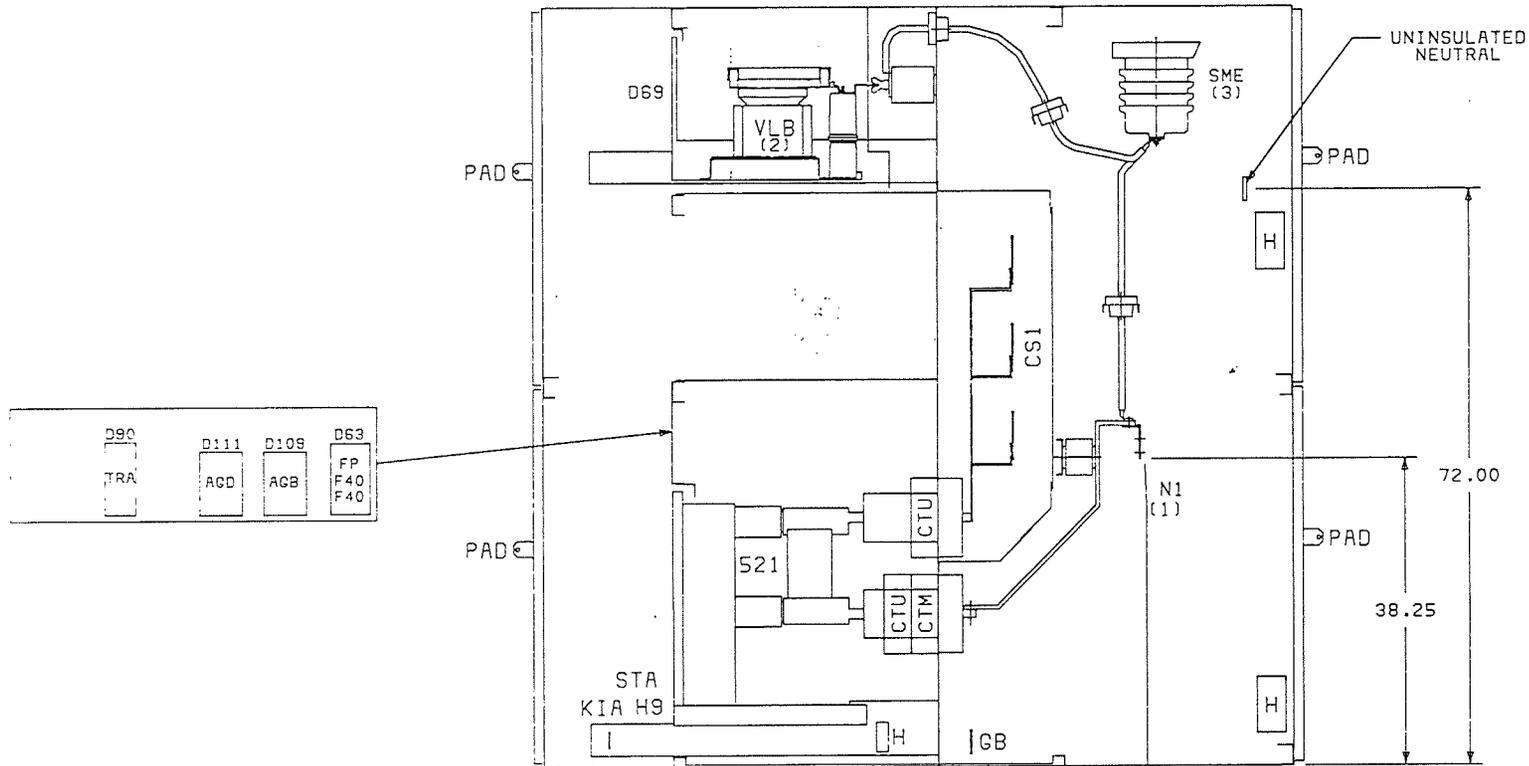
SHEET DWG NO.

4 OF 14

6588MSV

REV 1 2 3

S.G.1-V.S.4

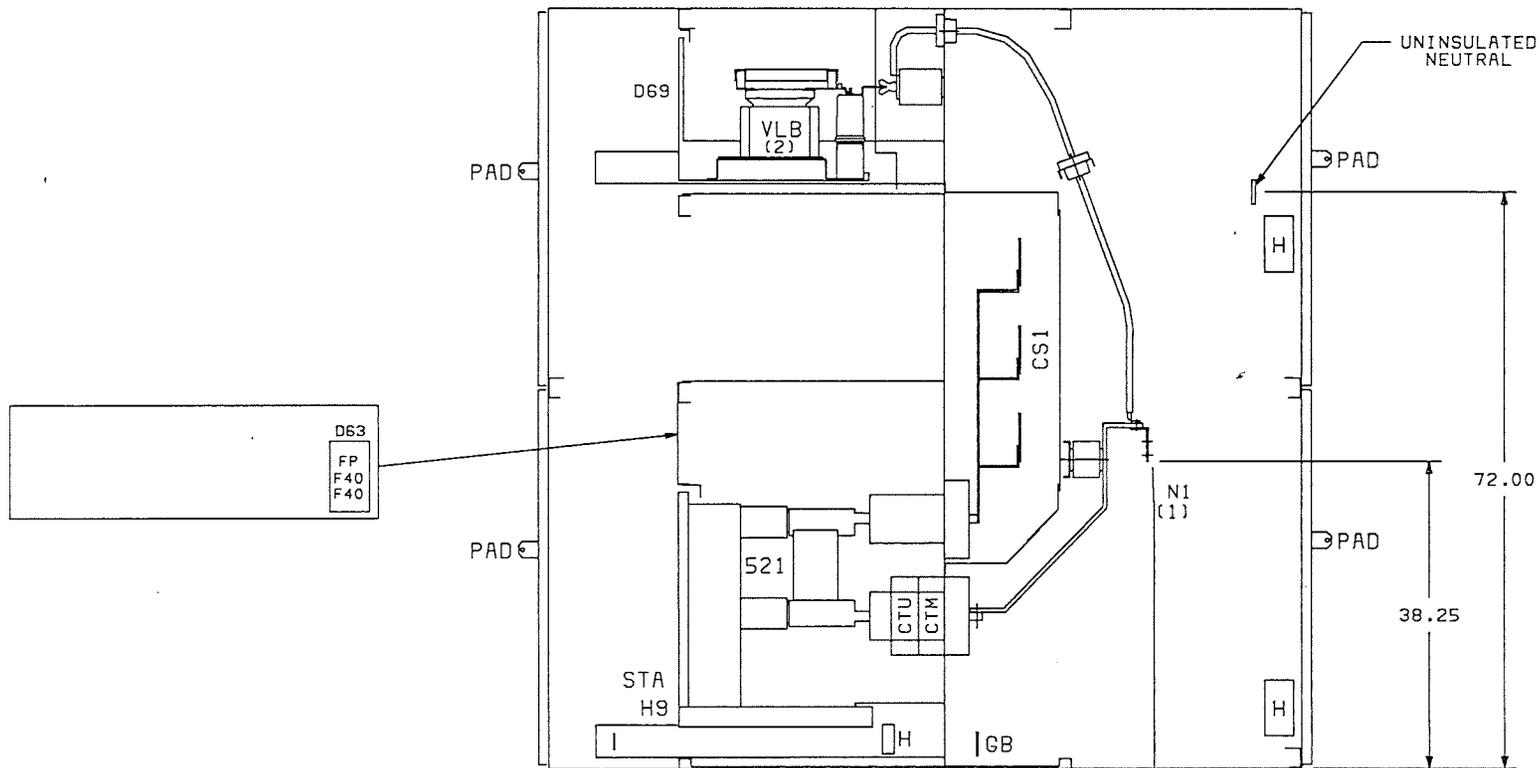


WEST. V.S. NO.

5

CUST. NO.

| | | | | |
|--|---------------|------|---------|---------------------|
|  WESTINGHOUSE GREENWOOD, SC | G.O.# | DFT# | DATE | TITLE |
| | BSHR45014-MVA | HILL | 8-7-92 | SECTIONAL SIDE VIEW |
| REV 1 2/8 | S.G.1-V.S.5 | | | SHEET |
| | | | 5 OF 14 | DWG NO. 6588MSV |



WEST. V.S. NO.

6

CUST. NO.



WESTINGHOUSE
GREENWOOD, SC

G.O.#
BSHR45014-MVA

DFTR
HILL

DATE
8-7-92

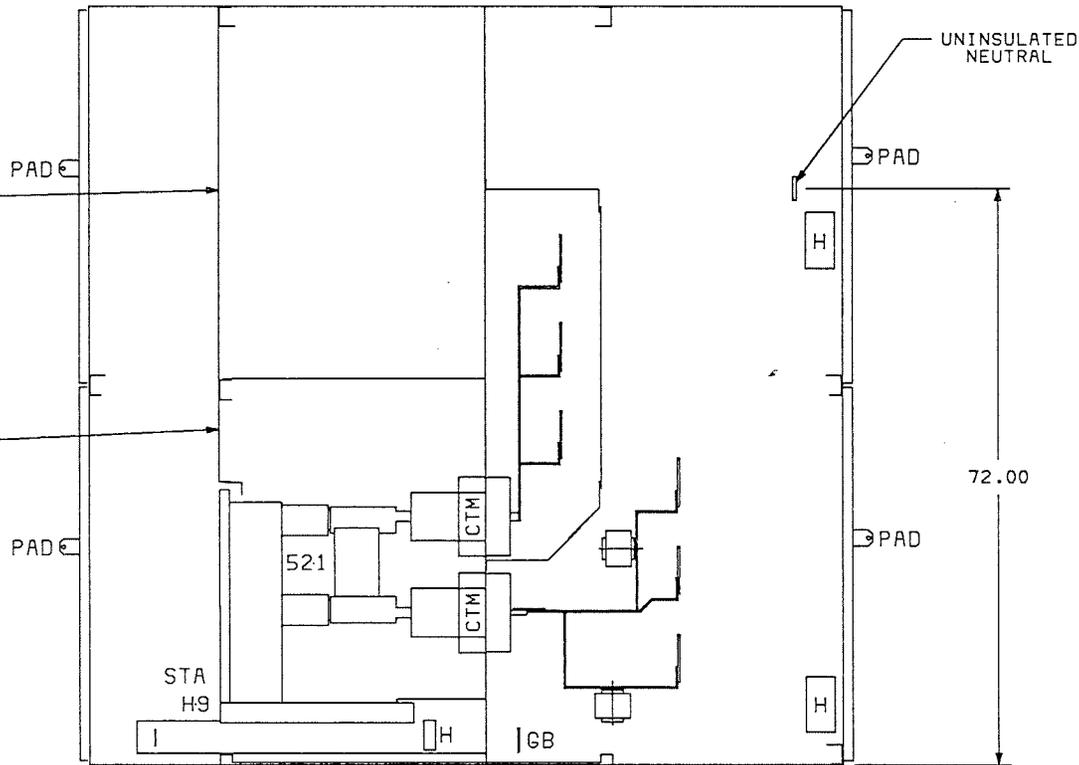
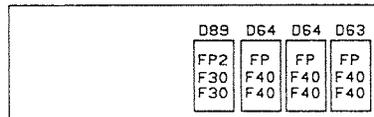
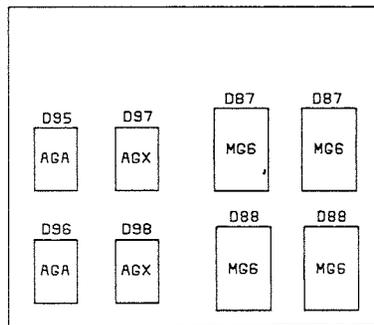
TITLE SECTIONAL SIDE VIEW

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

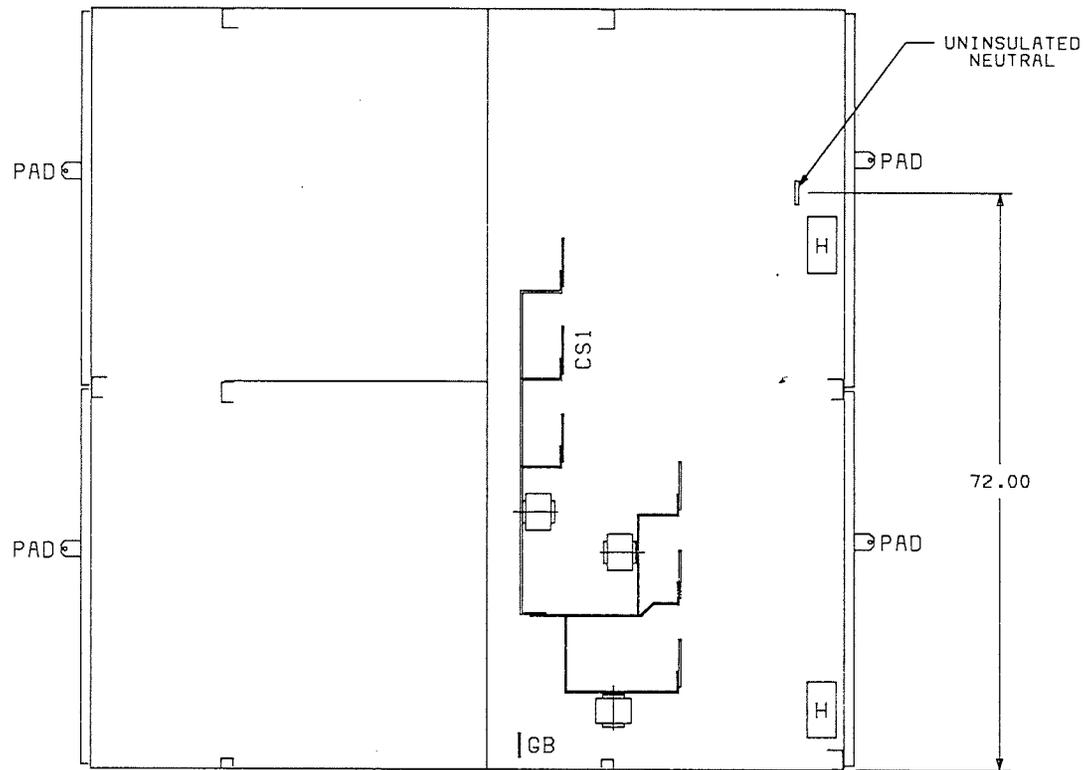
SHEET
7 OF 14

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

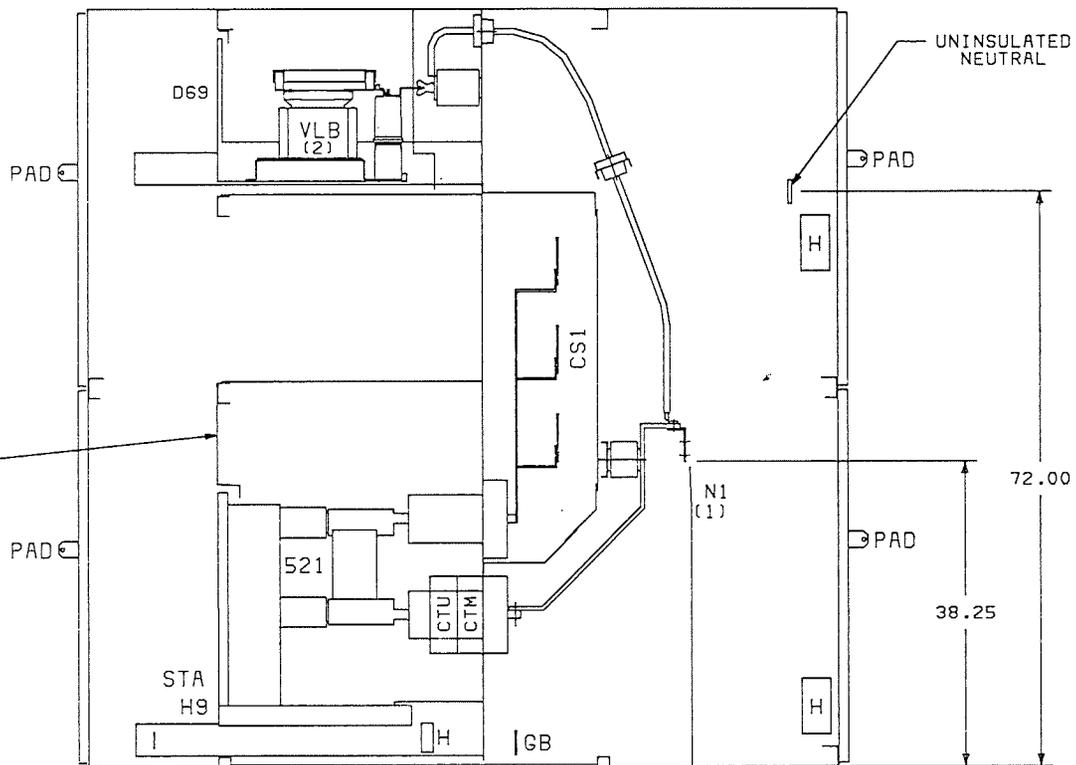
SHEET
8 OF 14

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

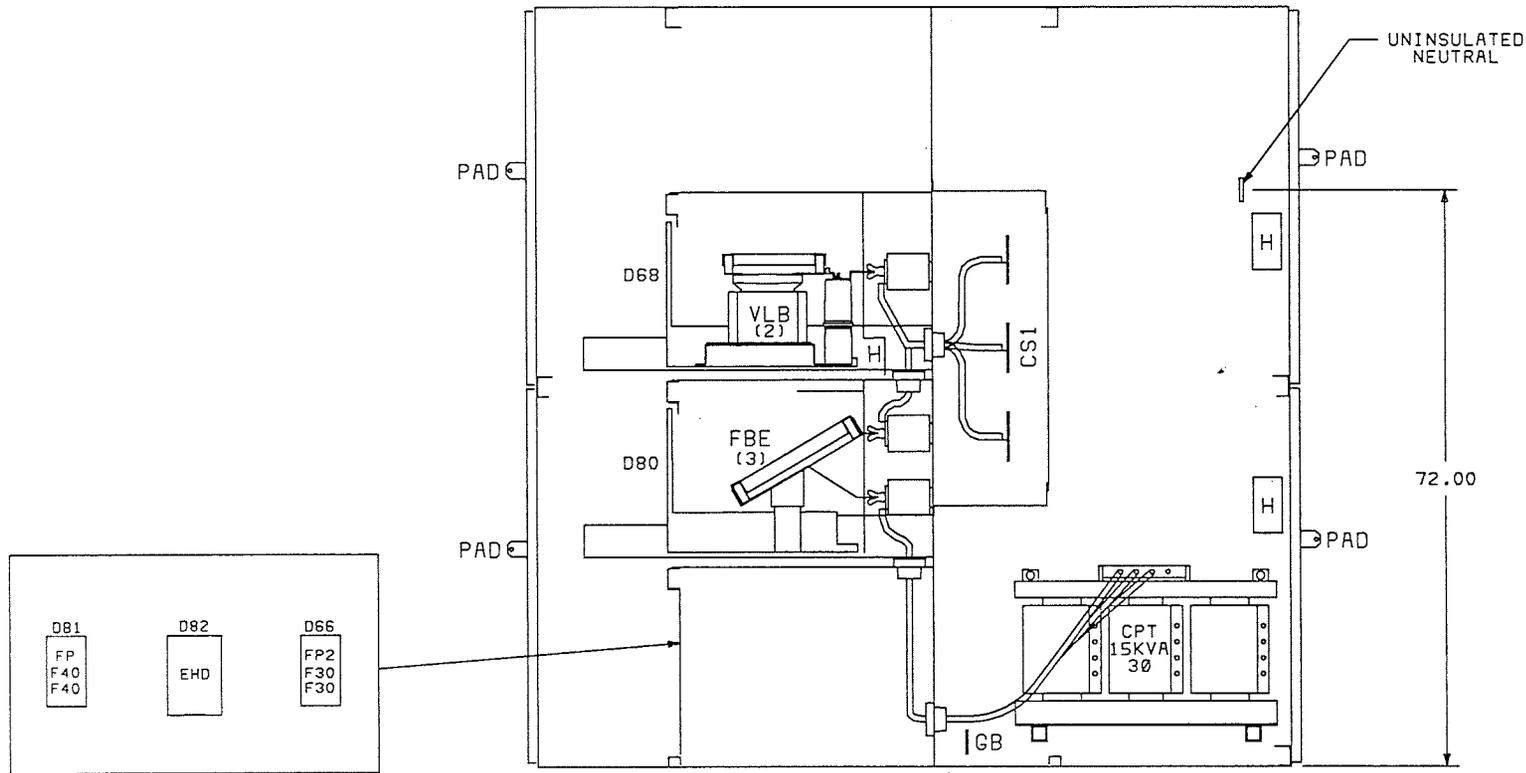
SHEET
9 OF 14

DWG NO.

6588MSV

REV 1 2 3

S.G.2-V.S.4

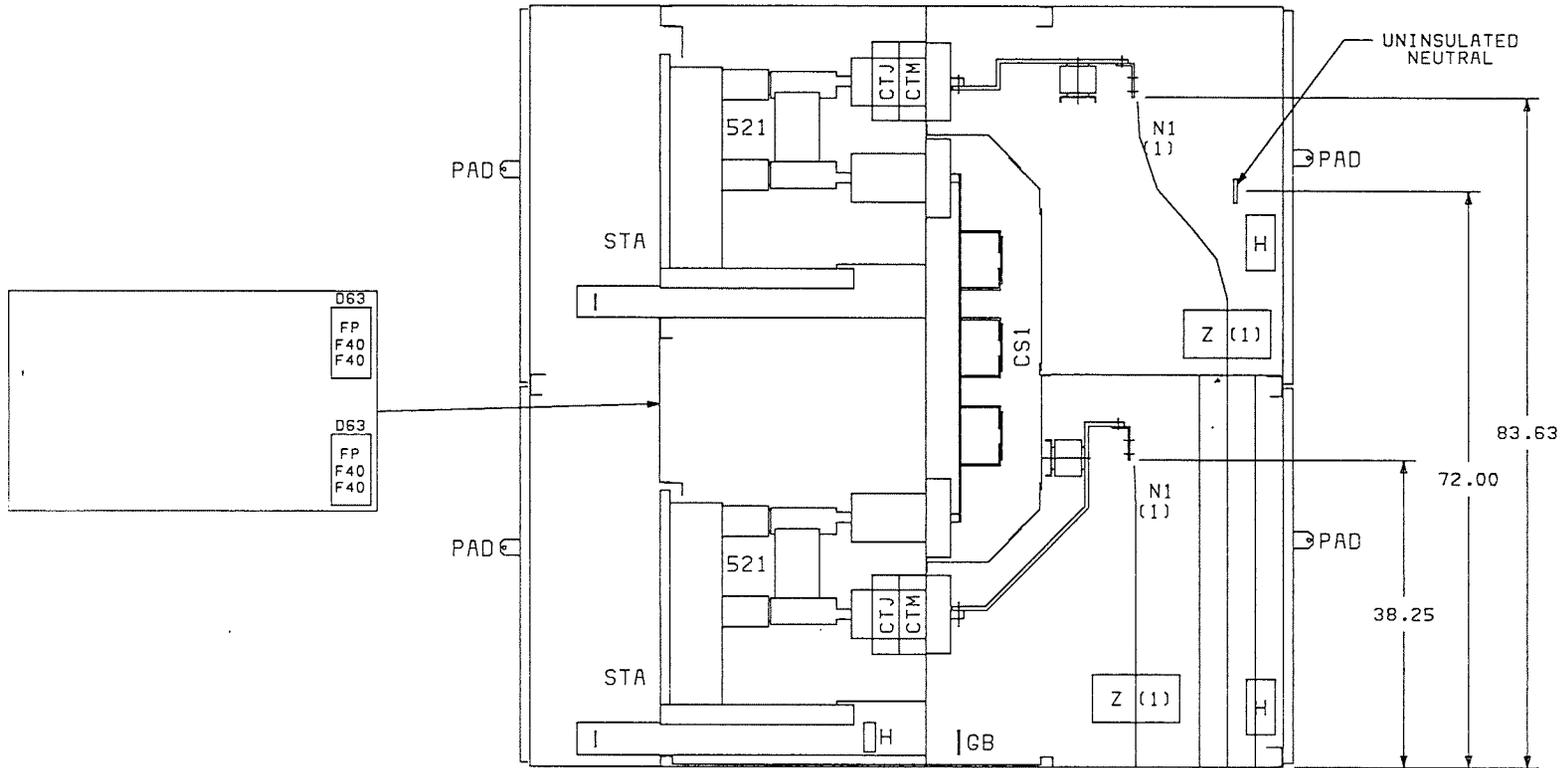


WEST. V.S. NO.

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 | 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

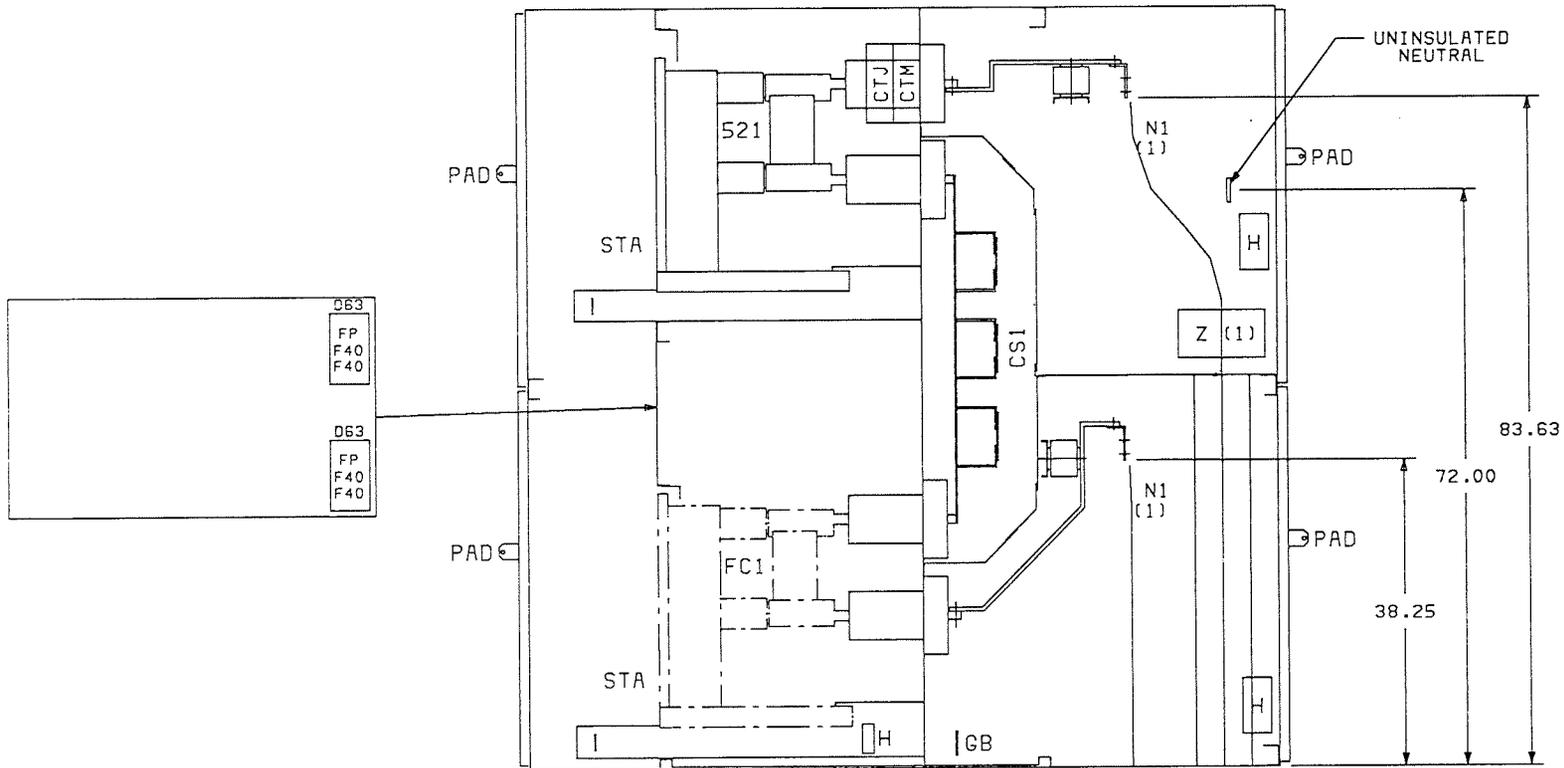
DWG NO.

12 OF 14

6588MSV

REV 1 2 3

S.G.3-V.S.3



WEST. V.S. NO.

13

CUST. NO.



WESTINGHOUSE
GREENWOOD, SC

G.O.#
BSHR45014-MVA

DFTR
HILL

DATE
8-7-92

TITLE SECTIONAL SIDE VIEW

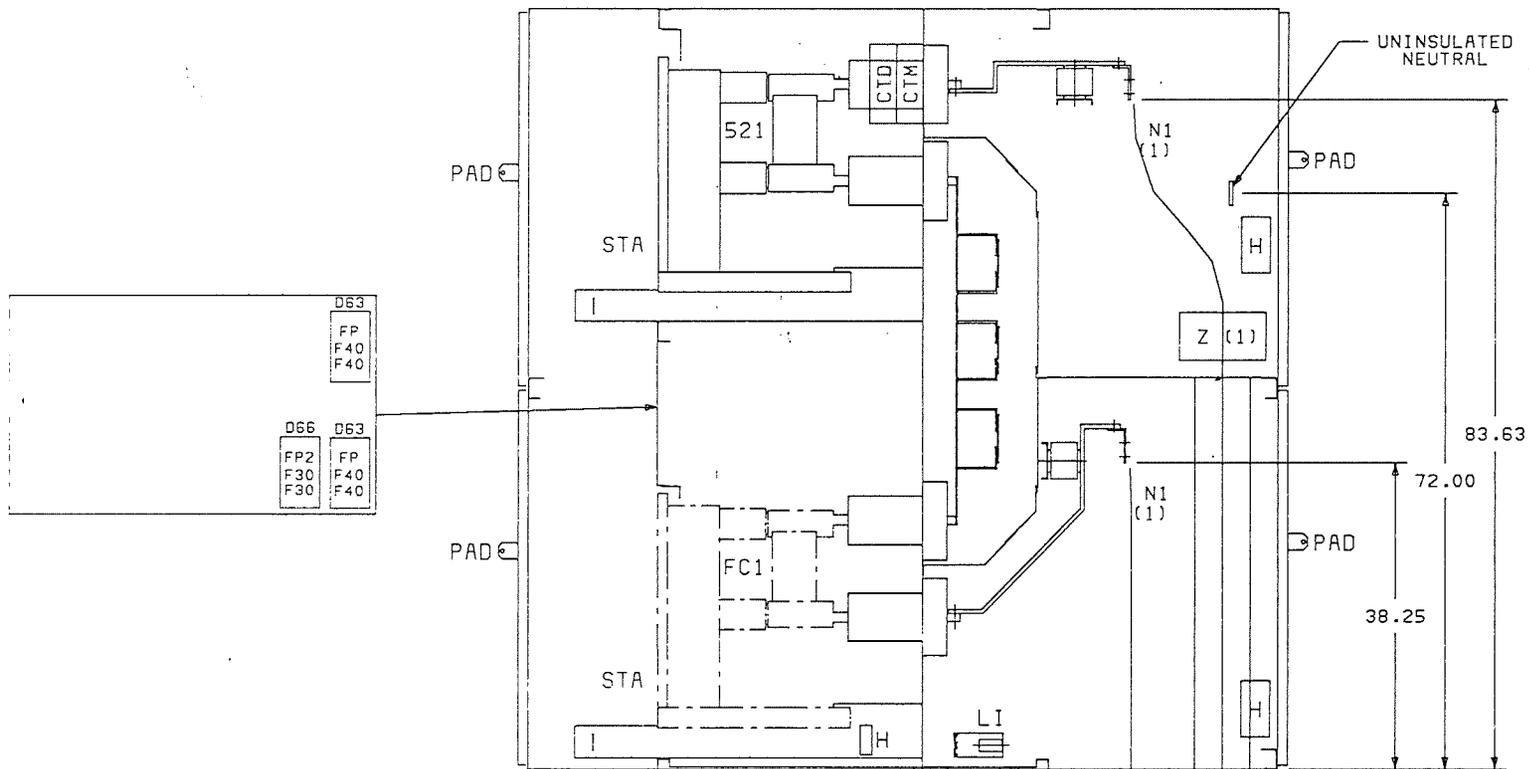
SHEET
13 OF 14

DWG NO.

6588MSV

REV: 2 3

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

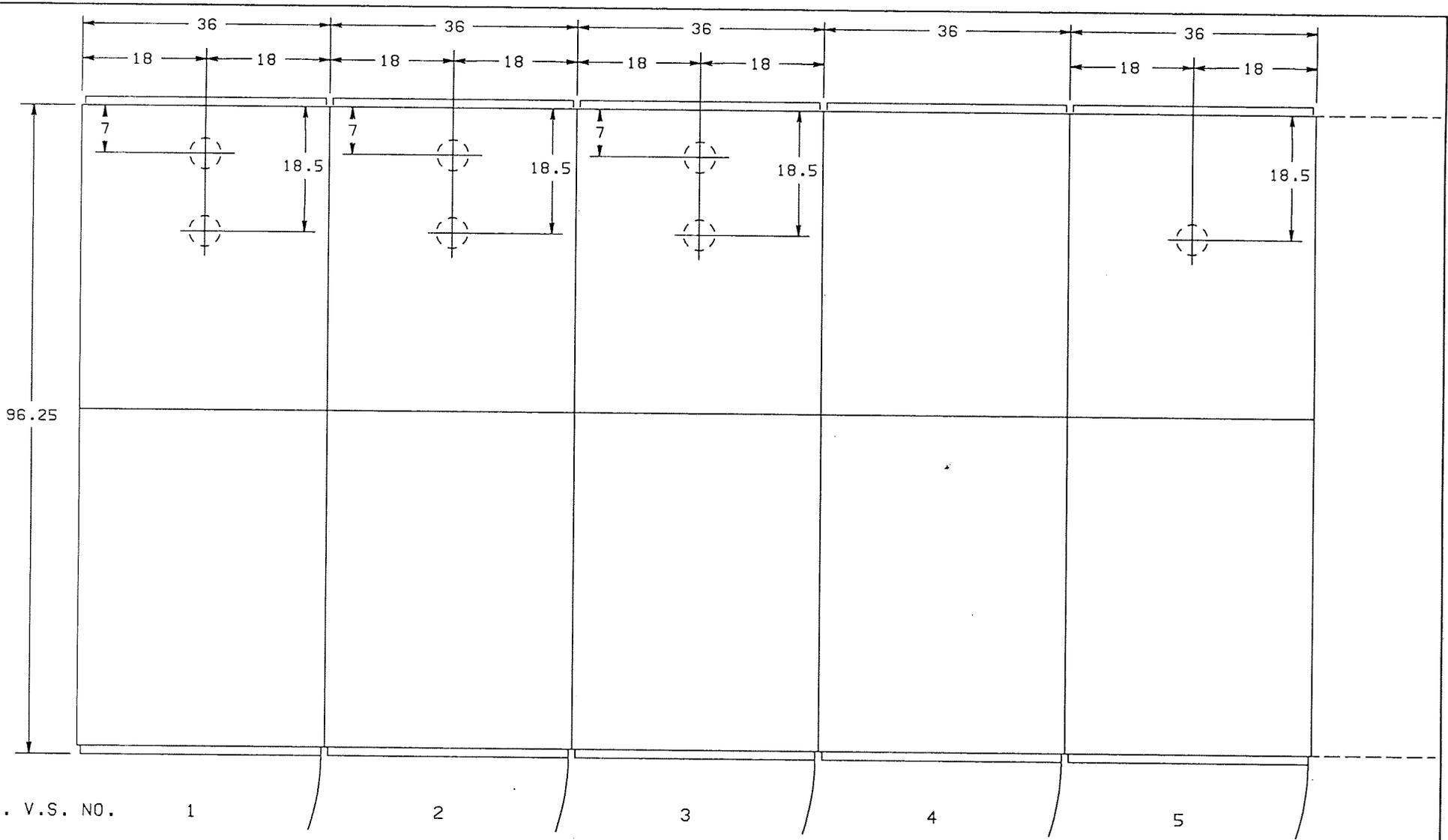
SHEET
14 OF 14

DWG NO.

6588MSV

REV: 2 3

S.G.3-V.S.5



WEST. V.S. NO. 1
 CUST. NO.

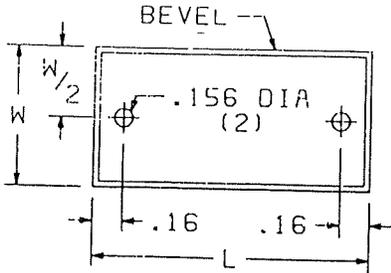
* APPROX WT.-LBS. 2400 2400 2400 2000 2300

*-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 | | | | |

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
- _____

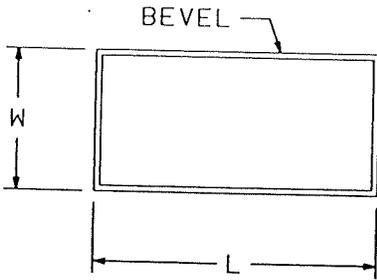
- .20 HIGH LETTERS
18 CHAR/LINE, STD
22 CHAR/LINE, 80% COND
- _____ HIGH LETTERS

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.

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.

3 OF 4

6588

MNP

REV

1 - 3

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 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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*

