

**ADDENDUM NO. 1
TO THE
BIDDING DOCUMENTS
FOR
MAIN POWER TRANSITION (CAPITAL PROJECT NO. 1361)
FOR THE
FOUR RIVERS SANITATION AUTHORITY
ROCKFORD, ILLINOIS**

DATE: September 8, 2023

BIDS CLOSE: September 15, 2023, at 10:00 a.m., Local Time

TO ALL BIDDERS BIDDING ON THE ABOVE PROJECT:

All Bidders submitting a Bid on the above Contract shall carefully read this Addendum and give it consideration in the preparation of their Bid.

The final date and time for questions is September 13, 2023 at 3:00 p.m., Local Time. The final addendum will be issued on September 14, 2023.

I. General Information:

The following is General Information. This material is provided as information that might be useful to Bidders, but is not part of the Bidding or Contract Documents:

The sign-in sheet of the mandatory pre-bid meeting held on September 6, 2023 are attached to this addendum.

Responses to Bidder's questions:

1. I don't see an contract award date in the documents to compare/"start clock" for equipment availability, which impacts ability to complete project on time.

Response: The tentative award date is September 25, 2023.

2. Spec page 40 61 13-4 thru 7 require a system Integrator to do the programming and oversight of contractor but the drawing # 14 says owner will do programming. Do you still require a system integrator?

Response: The Owner is responsible for HMI and PLC programming for SWT and PLC-MPS; the Contractor is responsible for all other programming per the Drawings and Specifications. A System Integrator is not required but may be used if needed to complete the scope of work.

3. Section 26 05 73 requires contractor to hire an independent engineering firm for the Arc flash and coordination study. Will Four Rivers allow Ballard Engineering do this as we are fully qualified to do this study work also?

Response: Systems Design Service Engineering Group (Rockford, IL) shall be used for performance of the studies required by Section 26 05 73. Studies shall be performed using EasyPower Software.

4. Are there any new PLC's provided by integrator or contractor?

Response: No, refer to the Drawings and Specifications for equipment to be provided.

5. Who is providing the new I/O?

Response: Refer to General Note 2 on Drawing 1-N-01.

6. Where is the HMI? and who programs the HMI?

Response: The Owner is responsible for HMI programming.

7. Is there any new software for the HMI? and who provides that?

Response: The Owner is responsible for HMI software.

8. Who installs the new I/O?

Response: Refer to General Note 2 on Drawing 1-N-01.

9. Are there any prints for the existing gear that we could get sent so that we may see what it will take to get everything isolated.

Response: Shop drawings for the Main Switchgear are attached to this addendum.

10. Does the warranty (2 years) for all constructed work include insurance?

Response: Yes.

11. Are any of the listed System Integrators preferred/favored by FRSA?

Response: No, a System Integrator is not required but may be used if needed to complete the scope of work.

12. Can conduit be run on the first level of the Main Pump Building?

Response: No, run conduit as indicated on the Drawings.

13. Is there a preferred order of shutdowns when switching to temporary power?

Response: To be coordinated with FRSA during construction.

14. Does FRSA know if there is water in the existing underground ductbank?

Response: Unknown. The Contractor shall field verify existing conditions prior to construction and notify the Owner if the field conditions differ from the Drawings.

15. How many of the temporary generator points are double-ended?

Response: Refer to the Plan Notes on Drawings 2-GE-01 through 2-GE-06, these 6 locations are double-ended.

16. Is reprogramming the Co-Gen PLC an acceptable substitute for temporary power in lieu of temporary generators?

Response: No, provide a bid with provisions for temporary power per the Drawings and Specifications.

17. Does the Engineer have contact information for Eaton for switchgear modifications?

Response: The Eaton sales engineer putting together the bid is Oscar Vargas;
OscarVargas@eaton.com

Clarifications:

1. Liquidated damages from failure to restore power are only applicable when on temporary power. See revised "PROPOSAL" attached to this Addendum.
- II. The following are revisions to the Proposal:
 1. Delete "PROPOSAL" in its entirety and replace with the "PROPOSAL" attached to this Addendum.
- III. The following are revisions to the Specifications:
 1. The following revisions shall be made to SECTION 26 05 73 – POWER SYSTEM STUDIES
 - A. Page 26 05 73-2, paragraph PART 2 - PRODUCTS., delete "(Not Used)", and replace with the following:

"2.01 STUDIES AND SOFTWARE

 - A. Power system studies shall be performed by Systems Design Service Engineering Group (Rockford, IL).
 - B. Power system studies shall be performed using EasyPower software.
- IV. Any revisions to any of the Contract Documents made by this Addendum shall be considered as the same revision to any and all related areas of the Contract Documents not specifically called out in this Addendum.
- V. The Bidder shall acknowledge receipt of this Addendum by inserting the number in the spaces provided in the PROPOSAL.

DONOHUE & ASSOCIATES, INC.
NAPERVILLE, ILLINOIS



Jay Bielanski, PE

**Main Power Transition, Capital Project No. 1361
Pre-Bid Meeting Attendance Sheet
Wednesday, September 6, 2023 at 10:00 a.m.**

Company	Address	Contact & Email Address	Phone
Donohue + Assoc.		Jay Bielauski jbielauski@donohue-associates.com	630-687-8041
Kelsa-Burnett DBA Ballard engineering	3555 Electric Ave Rockford IL 61109	Shane Clifford sclifford@Ballardeng.com	224-283-1948
Special Power	1226 18th Ave Rockford IL 61104	Mike Vlasnik mike@specialpower.com	815-262-1357
FRSA	3501 Kishwaukee Street Rockford, IL 61109	Chris Baer Cbaer@fourrivers.illinois.gov	815-387-7678
FRSA	3501 Kishwaukee Street Rockford, IL 61109	Warren Adam WAdam@fourrivers.illinois.gov	815-387-7615
FRSA	3501 Kishwaukee Street Rockford, IL 61109	Greg Cassaro GCassaro@fourrivers.illinois.gov	815-387-7605
FRSA	3501 Kishwaukee Street Rockford, IL 61109	Dan Pollard DPollard@fourrivers.illinois.gov	815-387-7638

Proposal

Project: Main Power Transition, Capital Project No. 1361

Location: Four Rivers Sanitation Authority Wastewater Treatment Plant located at 3333 Kishwaukee Street, Rockford, Illinois

Completion Date: Tuesday, April 30th, 2024

Liquidated Damages: \$300/calendar day per each completion date deadline
\$2000/hour from failure to restore temporary power

To: Board of Trustees
Four Rivers Sanitation Authority
3501 Kishwaukee Street
Rockford, IL 61109

From: _____
(Individual, Partnership or Corporation, as case may be)

(Address of Individual, Partnership or Corporation)

Gentlemen:

I (We), the undersigned, hereby propose to furnish all materials, equipment, tools, services, labor, and whatever else may be required to construct and place in service the above subject project for Four Rivers Sanitation Authority all in accordance with the plans and specifications, provided by Four Rivers Sanitation Authority (FRSA). The undersigned also affirms and declares:

1. That I (we), have, examined and am (are) familiar with all the related contract documents and found that they are accurate and complete and are approved by the undersigned.
2. That I (we), have carefully examined the site of the work, and that, from my (our) investigation, has satisfied myself (ourselves) as to the nature and location of the work, the character, quality, and quantity of materials and the kind and extent of equipment and other facilities needed for the performance of the work, the general and local conditions and all difficulties to be encountered, and all other items which may, in any way, effect the work or its performance.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.

4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of Four Rivers Sanitation Authority, which it is agreed, shall be retained as liquidated damages by said Four Rivers Sanitation Authority if the undersigned fails to execute the Contract in conformity with the contract documents incorporated in the contract documents and furnish bond as specified, within ten (10) days after notification of the award of the contract to the undersigned.
5. The Bidder is of lawful age and that no other person, firm or corporation has any interest in this Proposal or in the Contract proposed to be entered in to.
6. The Bidder is not in arrears to Four Rivers Sanitation Authority, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to Four Rivers Sanitation Authority.
7. No officer or employee or person whose salary is payable in whole or in part by FRSA is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety or otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it is relates, or in any portion of the profits thereof.
8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify FRSA and FRSA's representatives.

In regard to participation in an approved Apprenticeship program, upon request, Contractor will be required to provide written proof of participation.

9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 99-093 and will make this information available upon request.
10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including Four Rivers Sanitation Authority) to submit certified payroll reports via the State's Certified Transcript of Payroll Portal found at: www.2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx.
11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".
13. The undersigned, as Bidder, declares he will comply with Public Act 96-929 (30 ILCS 570) regarding Illinois residents' employment.
14. The undersigned, as Bidder, declares he will comply with non-discrimination in employment in accordance with the Illinois Fair Employment Practices Commissions Rules & Regulations.
15. The undersigned, as Bidder, declares that he currently participates in an apprenticeship or training program that is registered with the United States Department of Labor's Bureau of

Apprenticeship and Training or other acceptable State of Illinois Department of Labor monitored program.

In submitting this bid, it is understood that the right is reserved by Four Rivers Sanitation Authority to reject any and all bids. It is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.

The undersigned further declares that he (they) has (have) carefully examined the following items of work and that the cost of all the work to complete this project is given in this Proposal.

Lump Sum Bid Amount

Total Amount of Lump Sum Bid, expressed in figures, for providing all materials, equipment, warranty, and labor to complete this project in conformity with all specifications in this Invitation to Bid.

\$ _____

The undersigned acknowledges that he has received Addendum numbers _____, _____, _____, and realizes that all Addenda are considered part of the Contract.

Date: _____

Bidder: _____
(Printed Name of Firm)

By: _____
(Authorized Rep's Signature)

(Printed Street Address)

By: _____
(Printed Authorized Rep's Name)

(Printed City, State, Zip)

By: _____
(Printed Authorized Rep's Title)

(Area Code and Phone Number)

By: _____
(Fax Number)

(Authorized Rep's Email Address)

Master Document Index

Cutler-Hammer

MVA Switchgear

MVA 15 kV Lineup

Cutler Hammer, 2210 Highway 72/221 East Greenwood, SC 29648

GO-Item Number: SRK65244 - 001

File/Rev: MM000599.doc / 1

SO Number:

PO Number: 1261018409

Designation: REV7

Customer: Rock River Water Recl - MCM1058

User: Jan J Hartline

Date: 2003/08/07 15:41:52

Approval:

Construction:

As-Built: X

	Drawing Description	Document Name	Rev
1	MVA Test Report: SRK65244 001	MSRK65244Q00103.PDF	1
2	NAMEPLATE	F441NP.DOC	1
3	MASTER DRAWING INDEX	F441MDI.DOC	2
4	MASTER REVISION LIST	F441RV.DOC	2
5	GENERAL DESCRIPTION	F441WG.DOC	1
6	GWD-HINGED PANEL EQUIPMENT	SF441WH.PDF	1
7	GWD-LOW VOLTAGE PANEL EQUIPMENT	SF441WL.PDF	1
8	GWD-MISCELLANEOUS EQUIPMENT	SF441WM.PDF	1
9	ELEVATION	F441EL01.DWG	2
10	ONE LINE	F441OL01.DWG	1
11	SECTIONAL SIDE VIEW	F441SV01.DWG	1
12	CONTROL EQUIPMENT	F441CE01.DWG	1
13	ELECTRICAL MASTER DRAWING	F441EMD.DWG	2
14	THREE LINE DIAGRAM	F441Y01.DWG	2
15	CONN DIAG VERT SECT #1	F441H01.DWG	2
16	CONN DIAG VERT SECT #1	F441H01A.DWG	2
17	CONN DIAG VERT SECT #2	F441H02.DWG	1
18	CONN DIAG VERT SECT #2	F441H02A.DWG	1
19	CONN DIAG VERT SECT #3	F441H03.DWG	1
20	CONN DIAG VERT SECT #3	F441H03A.DWG	1

NAMEPLATES

INTERIOR DEVICE NAMEPLATES

2.5" x 0.75" SCREW MOUNTED NAMEPLATES WHITE WITH BLACK LETTERS 0.20" HIGH
Maximum number of characters per line - 14

ID	LINE ONE	LINE TWO	TOTAL QTY
D008	CAPACITOR TRIP	DEVICE	3
D010	CPT 15 KVA 1-PH		2
D017	LINE V.T.S		2
D199	BKR CONTROL	30 AMP FUSE	3

CUTLER-HAMMER GREENWOOD, SC	G.O. # - ITEM SRK65244-001	DATE 7/1/2003	TITLE NAMEPLATES
REV 1		SHEET 1 OF 1	F441NP

MASTER DRAWING INDEX

MEDIUM VOLTAGE SWITCHGEAR

P.O. # 1261018409

SO # 72YF441

CUSTOMER / PROJECT DESIGNATION: ROCK RIVER RECLAMATION
ROCKFORD IL

APPROVAL

CONSTRUCTION

FINAL

DATE COMPLETED: 07/31/03

MECH
ELECT

MECH
ELECT

MECH
ELECT

DESCRIPTION	DRAWING / DOCUMENT	NO. OF SHEETS	REVISION NO.	*	X
MASTER REVISION LIST	F441RV	1	02	*	X
GENERAL DESCRIPTION	F441WG	1	01	*	
HINGE PANEL EQUIPMENT PARTS LIST	F441WH	3	01	*	
LOW VOLTAGE EQUIPMENT PARTS LIST	F441WL	3	01	*	
MISCELLANEOUS EQUIPMENT PARTS LIST	F441WM	3	01	*	
ONE LINE & FLOOR PLAN	F441OL	1	01	*	
TOP VIEW AND FRONT VIEW	F441EL	1	02	*	X
CONTROL EQUIPMENT	F441CE	1	01	*	
SECTION VIEW	F441SV	1	01	*	
NAMEPLATES	F441NP	1	01	*	
TYPICAL BASE PLAN	6533C08	1	05	*	
ELECTRICAL MASTER DRAWING	F441EMD	1	01	*	

* INDICATES DRAWINGS OR DOCUMENTS INCLUDED IN THIS TRANSMITTAL
X INDICATES DRAWINGS OR DOCUMENTS ADDED OR REVISED SINCE LAST SUBMITTAL

CUTLER-HAMMER GREENWOOD, SC	G.O. # - ITEM SRK65244-001	DATE 7/31/2003	TITLE MASTER DRAWING INDEX
			F441MDI
REV 2		SHEET 1 OF 1	

MASTER REVISION LIST

REVISION NOTES

REV NO.	DRAWING / DOCUMENT NUMBER	REVISION NOTE	DRAFTER / DATE	ENGINEER / DATE
1	72YF441	RELEASE FOR MANUFACTURE	J. BANKS 06/30/03 MEINERS 07/02/03	MEINERS 07/02/03
2	72YF441	FOR AS BUILT	J. BANKS 07/31/03	

CUTLER-HAMMER
GREENWOOD, SC

G.O. # - ITEM
SRK65244 - 001

DATE
06/30/03

TITLE MASTER REVISION LIST

REV | 2

SHEET 1 OF 1

F441RV

GENERAL DESCRIPTION

CUSTOMER	NAME INSTALLATION P.O. # S.O. #	ROCK RIVER RECLAMATION ROCKFORD IL 1261018409 72YF441
SYSTEM	LINE TO LINE VOLTAGE BASIC IMPULSE LEVEL GROUND NUMBER OF PHASES FREQUENCY PHASE SEQUENCE	12470 V 95 KV CREST SOLID GROUNDING 3 PH 60 HZ 1 - 2 - 3 OR A - B - C
ENCLOSURE	TYPE GEAR REAR ACCESS REAR LATCHING FRONT LATCHING	INDOOR COVERS BOLTED QUARTER TURN KNOB WITH PADLOCK
FINISH	ENCLOSURE EXTERIOR VERTICAL SECTION INTERIOR	ANSI 61 ANSI 61
BUS	BUS RATING JOINT HARDWARE SUPPORT INSULATION GROUND BUS	1200A COPPER SILVER PLATED HT STL (YELLOW ZINC CR) PORCELAIN .25 X 2 COPPER
CIRCUIT BREAKER	TYPE BREAKER SHORT CKT CURRENT @ MAX KV VOLTAGE RANGE FACTOR, K= CLOSING AND LATCHING CURRENT INTERRUPTING TIME MOTOR VOLTAGE CLOSE VOLTAGE TRIP VOLTAGE	150 VCP-W 500 18 KA RMS SYM 1.3 62 KA PEAK 5 CYCLE 120VAC 120VAC 120V CAP TRIP
SECONDARY & CONTROL	BREAKER CONTROL POWER WIRE TYPE WIRE SIZE NON CURRENT CKT'S WIRE SIZE CURRENT CKT'S TERMINALS WIRE MARKERS TERMINAL BLOCKS (GENERAL) TERMINAL BLOCKS (CTS) CONNECTION DIAGRAM WIRING	REMOTE SIS # 14 MIN # 14 MIN INSULATED LOCK IN FORK ADHESIVE WRAP ON STANDARD 50A, 600V SHORT CKT TYPE 50A, 600V STANDARD
STANDARDS	ANSI, IEEE, NEMA, UR LABEL	

CUTLER-HAMMER GREENWOOD, SC	G.O. # - ITEM SRK65244-001	DATE 7/1/2003	TITLE GENERAL DESCRIPTION F441WG
REV 1	SHEET 1 OF 1		

EATON CUTLER-HAMMER

GREENWOOD CONTROLLED

PARTS LIST: SF441WH
DRAWING NO: SF441WH

REV: 001 DATE APPR: 6/04/2003
REV: 000 DWG SHEETS: 000

DATE: 6/04/2003
B/M UNITS: I

TITLE: HINGED PANEL EQUIPMENT

PRODUCT CODE: 6063WO

ITEM	SYM	DESCRIPTION	PART NUMBER				
G01		HINGED PANEL EQUIPMENT G	SF441WHG01				
G02		HINGED PANEL EQUIPMENT G	SF441WHG02				
G03		HINGED PANEL EQUIPMENT G	SF441WHG03				
G90		HINGED PANEL EQUIPMENT G	SF441WHG90				
G98		HINGED PANEL EQUIPMENT G	SF441WHG98				
G99		HINGED PANEL EQUIPMENT G	SF441WHG99				

PARTS LIST NO.: SF441WH
GREENWOOD CONTROLLED FILE

PAGE NO. 1 (CONT.)
PRINTED COPY IS UNCONTROLLED

EATON CUTLER-HAMMER

GREENWOOD CONTROLLED

PARTS LIST: SF441WH
DRAWING NO: SF441WH

REV: 001 DATE APPR: 6/04/2003
REV: 000 DWG SHEETS: 000

DATE: 6/04/2003
B/M UNITS: I

TITLE: HINGED PANEL EQUIPMENT

PRODUCT CODE: 6063WO

ITEM	SYM	DESCRIPTION	PART NUMBER	G98	G99		
O1A		GRP "G99"	TOTALQUAN			1	
O1B		GRP "G "	VERTSECT				
O1D		GRP "G90"	*DETAIL				
O1F		GRP "G98"	ADVANCE	1			

REVISION NOTES

001 ENG. CHANGE NO.: FAMILY-90 APPROVAL DATE: 6/04/2003
----- NEW PARTS LIST ----- ORDER: SRK65244 ITEM: 001
DFTM.- ENGR.- MEINERS M.E.-

PARTS LIST NO.: SF441WH
GREENWOOD CONTROLLED FILE

PAGE NO. 3 (END)
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EATON CUTLER-HAMMER

GREENWOOD CONTROLLED

PARTS LIST: SF441WL
DRAWING NO: SF441WL

REV: 001 DATE APPR: 6/04/2003
REV: 000 DWG SHEETS: 000

DATE: 6/04/2003
B/M UNITS: I

TITLE: LOW VOLTAGE PANEL EQUIPMENT

PRODUCT CODE: 6063WO

ITEM	SYM	DESCRIPTION	PART NUMBER				
G01		LOW VOLTAGE PANEL EQUIPMENT	SF441WLG01				
		G					
G02		LOW VOLTAGE PANEL EQUIPMENT	SF441WLG02				
		G					
G03		LOW VOLTAGE PANEL EQUIPMENT	SF441WLG03				
		G					
G90		LOW VOLTAGE PANEL EQUIPMENT	SF441WLG90				
		G					
G98		LOW VOLTAGE PANEL EQUIPMENT	SF441WLG98				
		G					
G99		LOW VOLTAGE PANEL EQUIPMENT	SF441WLG99				
		G					

PARTS LIST NO.: SF441WL
GREENWOOD CONTROLLED FILE

PAGE NO. 1 (CONT.)
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EATON CUTLER-HAMMER

GREENWOOD CONTROLLED

PARTS LIST: SF441WL REV: 001 DATE APPR: 6/04/2003 DATE: 6/04/2003
DRAWING NO: SF441WL REV: 000 DWG SHEETS: 000 B/M UNITS: I

TITLE: LOW VOLTAGE PANEL EQUIPMENT

PRODUCT CODE: 6063WO

ITEM	SYM	DESCRIPTION	PART NUMBER	G98	G99		
CT1		CAP TRIP DEVICE 120VAC	CTD-2	3			
01A		GRP "G99"	TOTALQUAN		1		
01B		GRP "G__"	VERTSECT				
01D		GRP "G90"	*DETAIL				
01F		GRP "G98"	ADVANCE	1			
231		PULL FUSE 2P W/30 AMP FUSE	3A40335G19	3			

REVISION NOTES

001 ENG. CHANGE NO.: FAMILY-90 APPROVAL DATE: 6/04/2003
 ----- NEW PARTS LIST ----- ORDER: SRK65244 ITEM: 001
 DFTM.- ENGR.- MEINERS M.E.-

PARTS LIST NO.: SF441WL
GREENWOOD CONTROLLED FILE

PAGE NO. 3 (END)
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EATON CUTLER-HAMMER

GREENWOOD CONTROLLED

PARTS LIST: SF441WM REV: 001 DATE APPR: 6/30/2003 DATE: 6/30/2003
DRAWING NO: SF441WM REV: 000 DWG SHEETS: 000 B/M UNITS: I

TITLE: MISCELLANEOUS EQUIPMENT PRODUCT CODE: 6063WO

ITEM	SYM	DESCRIPTION	PART NUMBER
G01		MISCELLANEOUS EQUIPMENT	SF441WMG01
G02		MISCELLANEOUS EQUIPMENT	SF441WMG02
G03		MISCELLANEOUS EQUIPMENT	SF441WMG03
G88		MISCELLANEOUS EQUIPMENT	SF441WMG88
G90		MISCELLANEOUS EQUIPMENT	SF441WMG90
G98		MISCELLANEOUS EQUIPMENT	SF441WMG98
G99		MISCELLANEOUS EQUIPMENT	SF441WMG99

PARTS LIST NO.: SF441WM
GREENWOOD CONTROLLED FILE

PAGE NO. 1 (CONT.)
PRINTED COPY IS UNCONTROLLED

PARTS LIST: SF441WM REV: 001 DATE APPR: 6/30/2003 DATE: 6/30/2003
 DRAWING NO: SF441WM REV: 000 DWG SHEETS: 000 B/M UNITS: I

TITLE: MISCELLANEOUS EQUIPMENT PRODUCT CODE: 6063WO

ITEM	SYM	DESCRIPTION	PART NUMBER	G90	G98	G99
CSX		1200A .25 X 4 MB W/ 7 IN EXT	MCU0302H01			
CSY		1200A .25 X 4 MB W/ 7 IN EXT	MCU0302H02			
CSZ		1200A .25 X 4 MB W/ 7 IN EXT	MCU0302H03			
CS1		MAIN BUS-.25 X 4-SILVER	1C18370H01			
PAD		PROVISION FOR PADLOCKING	PADLOCK			
RPT		TEST REPORT OF CERTIFIED PROD	REPORT			
SCA		MOC 9-P	6510C50G03			
WM1		WIRE MARKER ,ADHESIVE WRAP-ON	8301A43H02			
ZS1		HANDLE ASSY	8064A02G01	1		1
ZS4		CRANK W/CLUTCH	701B601G01	1		1
ZS5		LIFTING YOKE VCP-W BREAKER	691C607G01	1		1
ZS7		TEST JUMPER ,TEN CONDUCTOR VCP	6526C23G11	1		1
ZS9		RAIL EXT. LH/RH RAIL	7813C41G03	1		1
Z52		TIE BOLT KIT - INDOOR - VCP-W	KIT #005	2		
Z64		PAINT, ANSI-61, 9 OZ SPRAY	53836SF00K	2		
Z71		SWITCHGEAR STORAGE INSTRCT DWG	REF700B214	1		
Z75	A	INSTRCT BOOK, INDOOR VCP-W SWGR	IB32-255	2		
Z78	A	INSTRCT BOOK, VCP-W BREAKER	IB32-255-1	2		
Z82		CUSTOMER DWG, ELECTRICAL	CUSTDWGE	1		
Z83		CUSTOMER DWG, MECHANICAL	CUSTDWG	1		
OCB		CABLE CLAMP 1/0-500 MCM	3723A23H02			
OGB		GROUND BUS-2 IN SHIPPING BREAK	8276A77H01	1		
OGX		GRD BUS-18VS	SA01413H05	1		
OH9		TOC SW 4A & 5B	6510C49G03			
01A		GRP "G99"	TOTALQUAN			1
01B		GRP "G "	VERTSECT			
01C		GRP "G88"	MTL-NOTES			
01D		GRP "G90"	*DETAIL	1		
01F		GRP"G98"	ADVANCE			1
521		BREAKER 150 VCP-W 500 1200A	3A73950G06	3		3

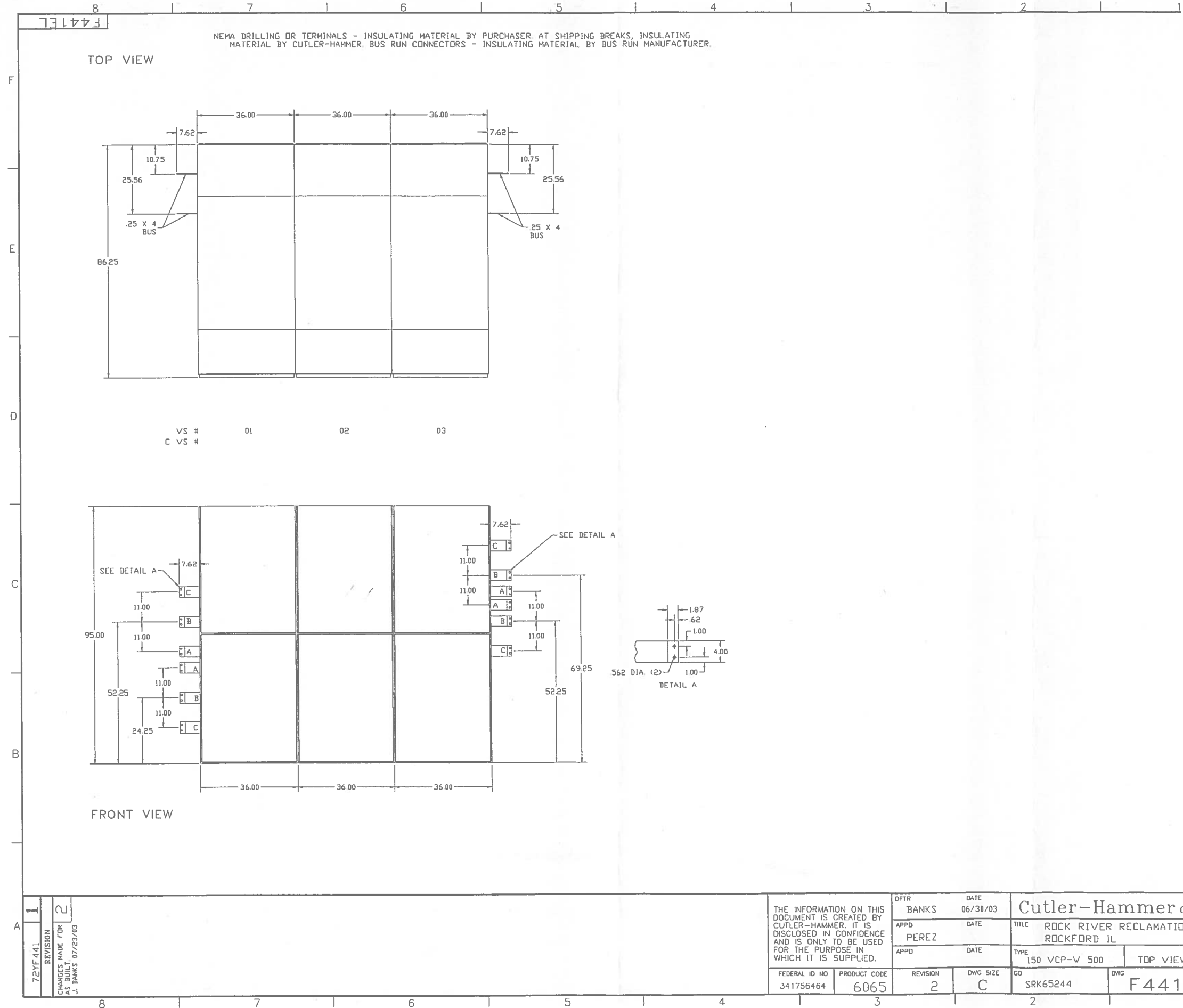
PARTS LIST NOTES

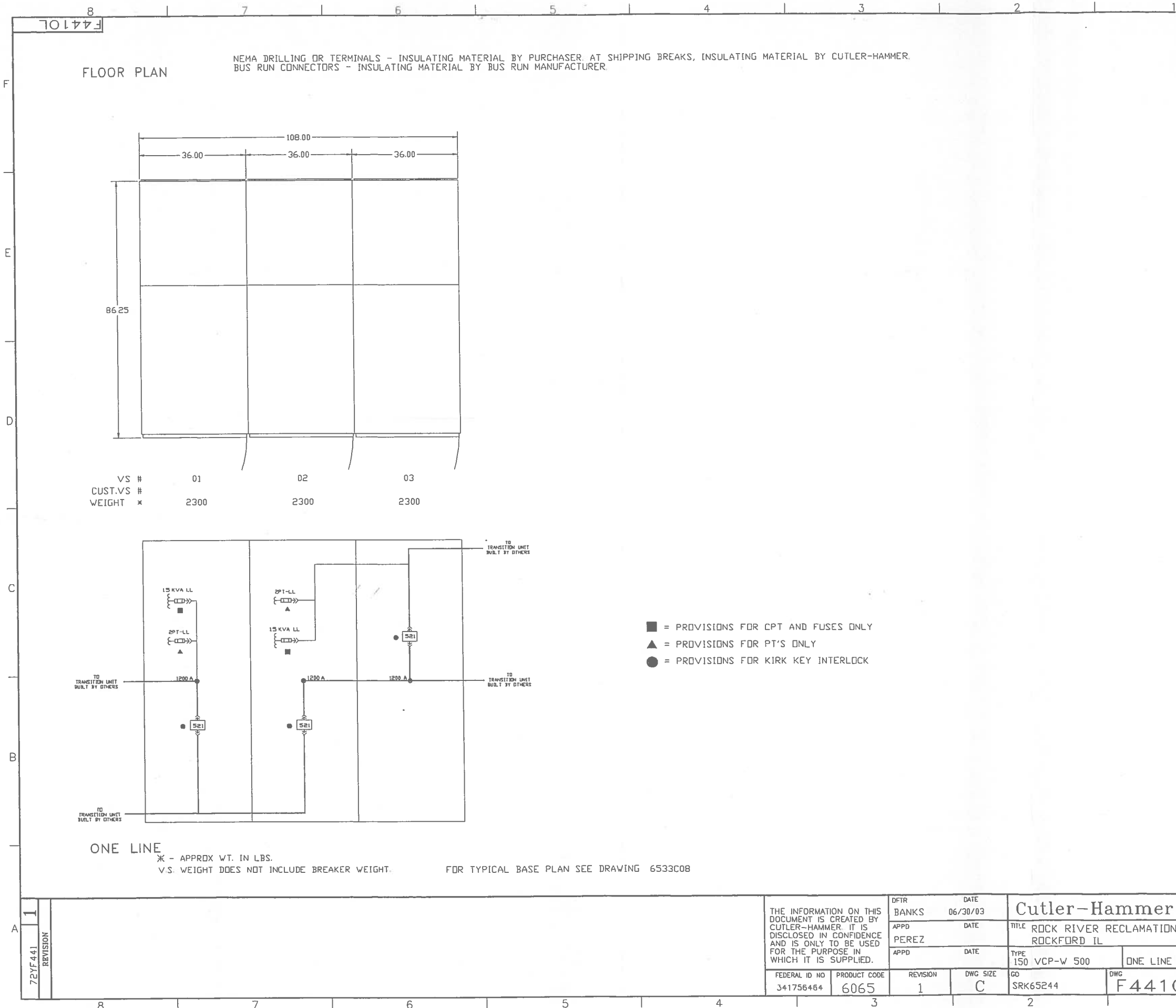
A: 1 COPY IN SWGR & 1 COPY IN DETAIL BOX.

REVISION NOTES

001 ENG. CHANGE NO.: FAMILY-98 APPROVAL DATE: 6/30/2003
 ----- NEW PARTS LIST ----- ORDER: SRK65244 ITEM: 001
 DFTM.- HILL ENGR.- DAIGREPONT M.E.-

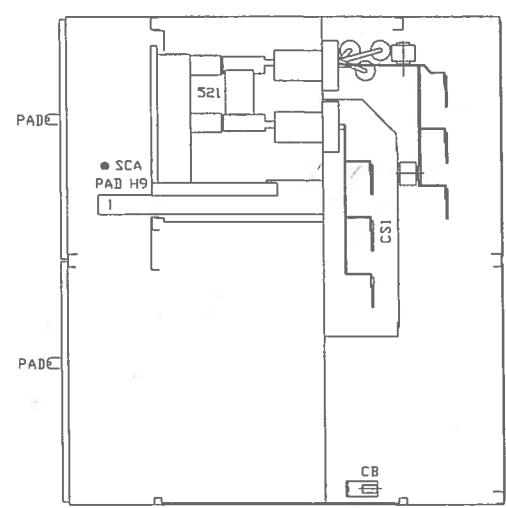
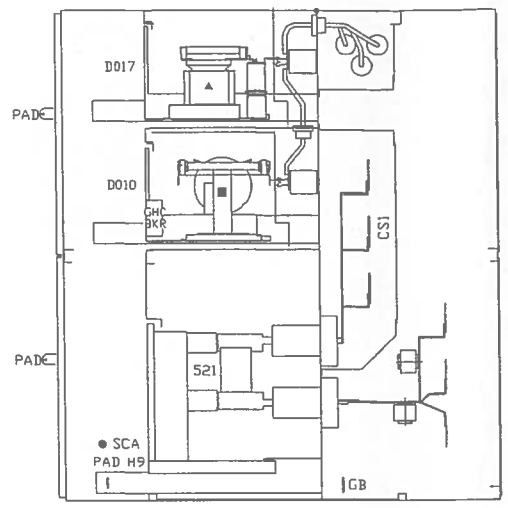
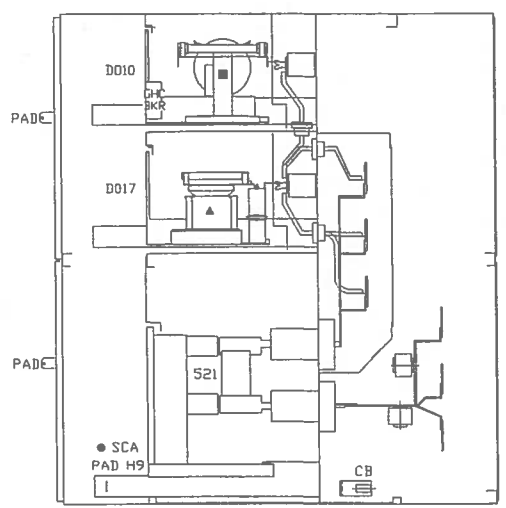
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 GREENWOOD CONTROLLED FILE PRINTED COPY IS UNCONTROLLED





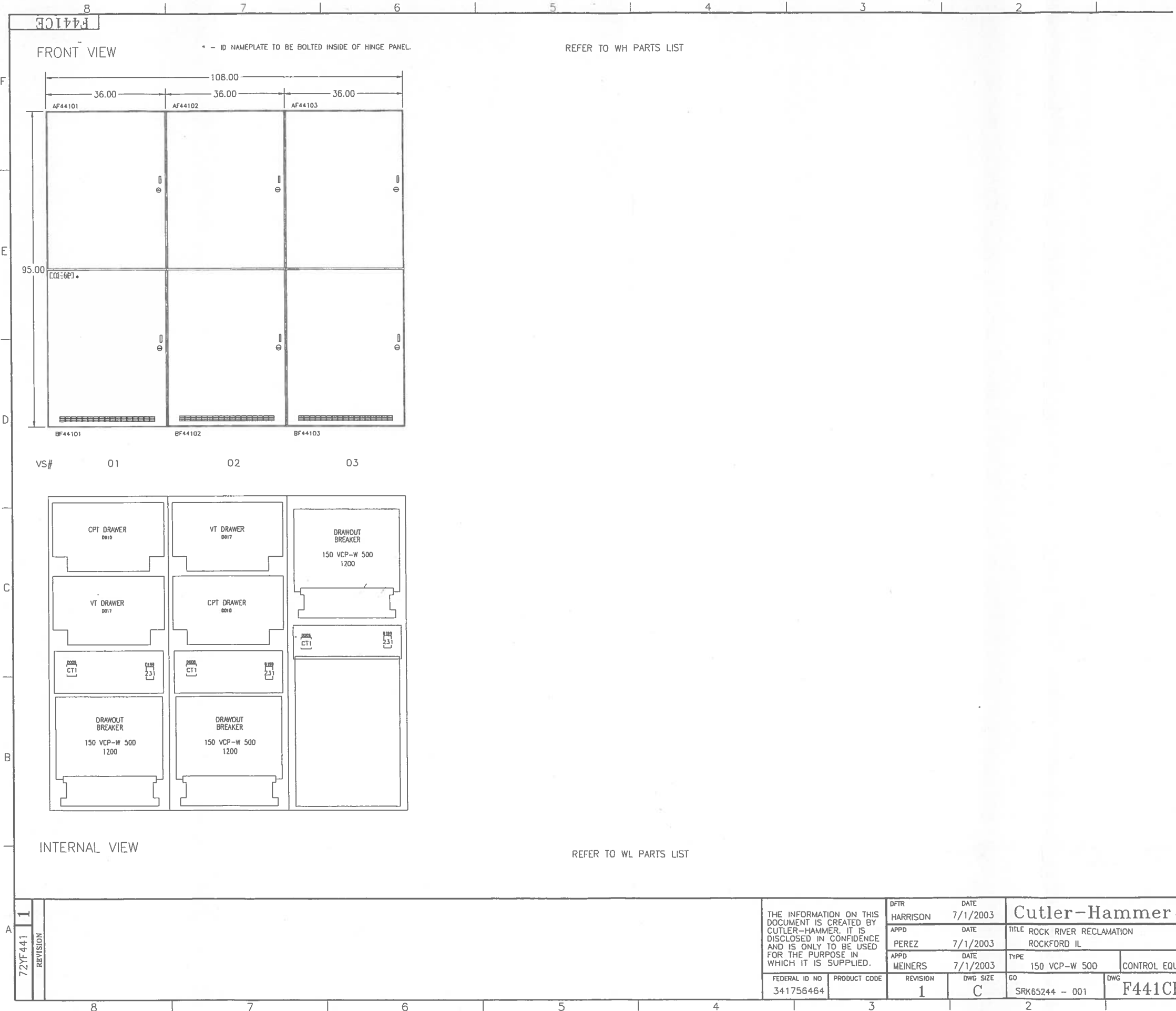
1 72VF441 REVISION	THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.			DFTR BANKS	DATE 06/30/03	Cutler-Hammer GI	
				APPD PEREZ	DATE	TITLE ROCK RIVER RECLAMATION ROCKFORD IL	
				APPD	DATE	TYPE 150 VCP-W 500	ONE LINE &
	FEDERAL ID NO 341756464	PRODUCT CODE 6065	REVISION 1	DWG SIZE C	GO SRK65244	DWG F4410	

- = PROVISIONS FOR CPT AND FUSES ONLY
- ▲ = PROVISIONS FOR PT'S ONLY
- = PROVISIONS FOR KIRK KEY INTERLOCK



1	72VF441	REVISION
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THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.		DFTR BANKS	DATE 06/30/03	Cutler-Hammer	
		APPD PEREZ	DATE	TITLE ROCK RIVER RECLAMATION ROCKFORD IL	
		APPD	DATE	TYPE 150 VCP-W 500	SECTION V
FEDERAL ID NO 341756464	PRODUCT CODE 6065	REVISION 1	DWG SIZE C	GO SRK65244	DWG F441SV



72YF441	REVISION
1	

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.		DFTR HARRISON	DATE 7/1/2003	Cutler-Hammer Corp	
		APPD PEREZ	DATE 7/1/2003	TITLE ROCK RIVER RECLAMATION ROCKFORD IL	
		APPD MEINERS	DATE 7/1/2003	TYPE 150 VCP-W 500	CONTROL EQUI
FEDERAL ID NO 341756464	PRODUCT CODE	REVISION 1	DWG SIZE C	GO SRK65244 - 001	DWG F441CE

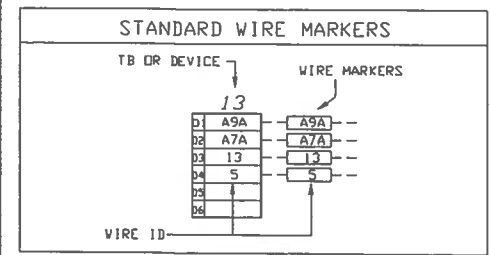
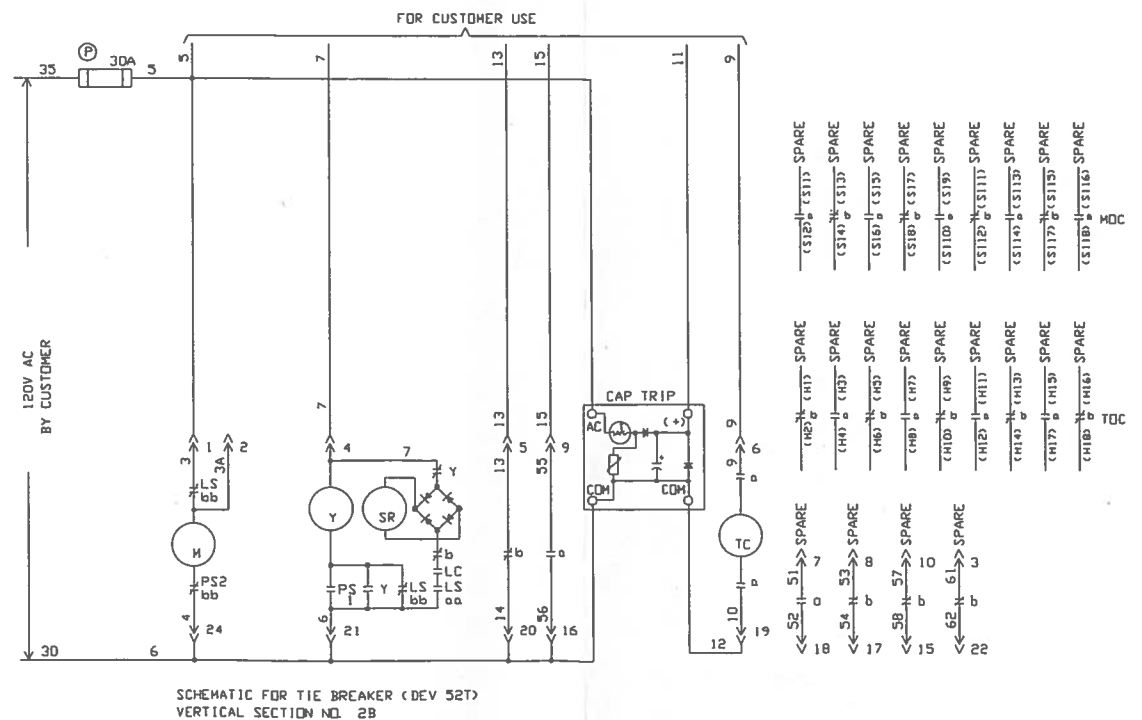
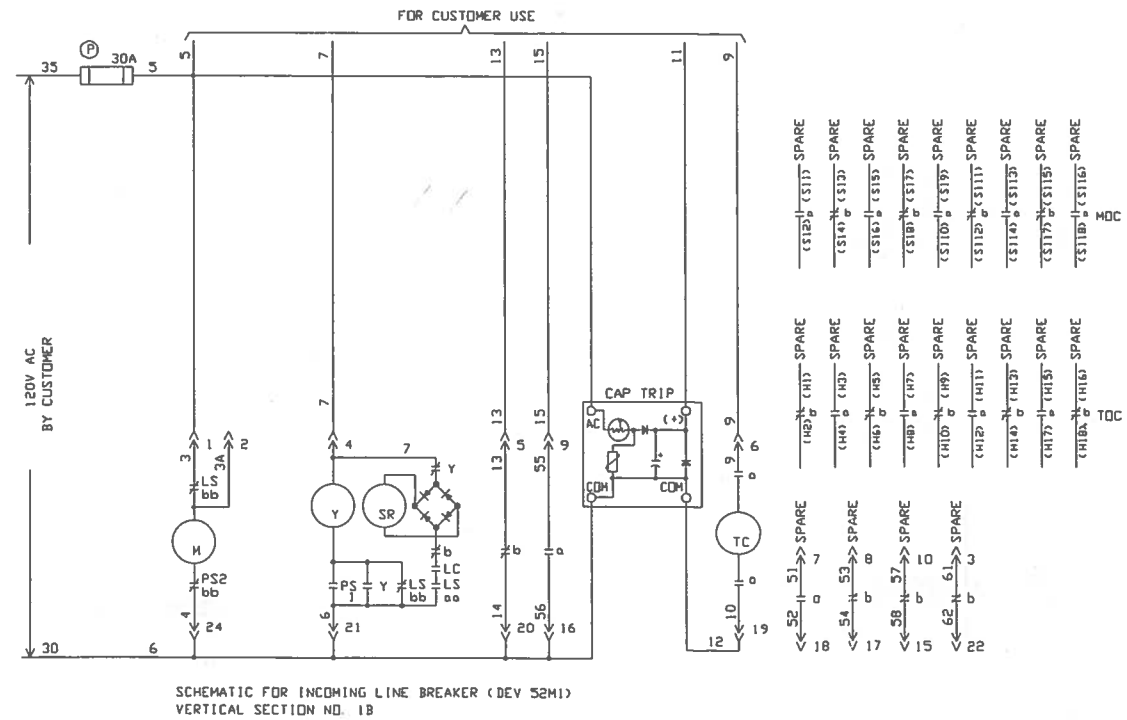
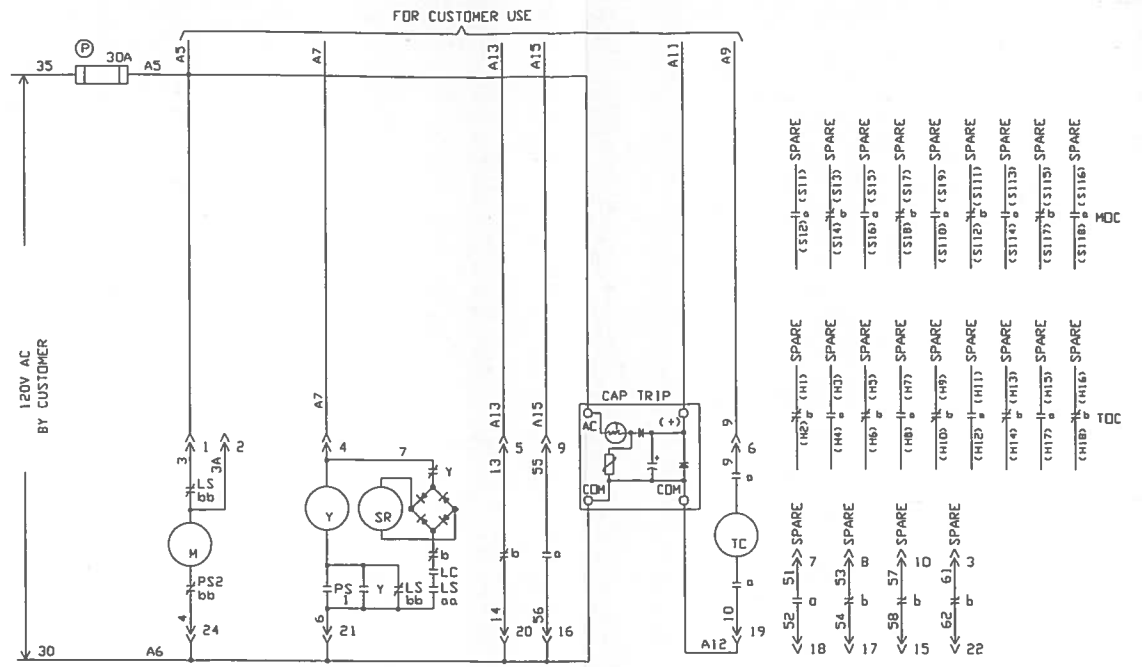
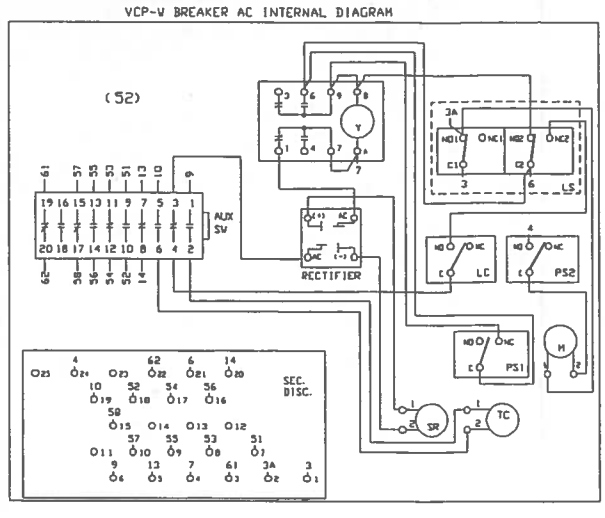
F441EMD

LIST OF APPARATUS

IDENT	TYPE	DESCRIPTION
TDC		TRUCK OPERATED CELL LIMIT SWITCH SHOWN FOR BREAKER IN TEST POSITION
MDC		MECH OPER CELL SV SHOWN FOR BREAKER IN OPEN POSN (OPERATES IN CONN POSN ONLY)
S2	VCPW	VACUUM CIRCUIT BREAKER (150 VCP-W 500)
LC SV		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

ELECTRICAL DRAWING INDEX

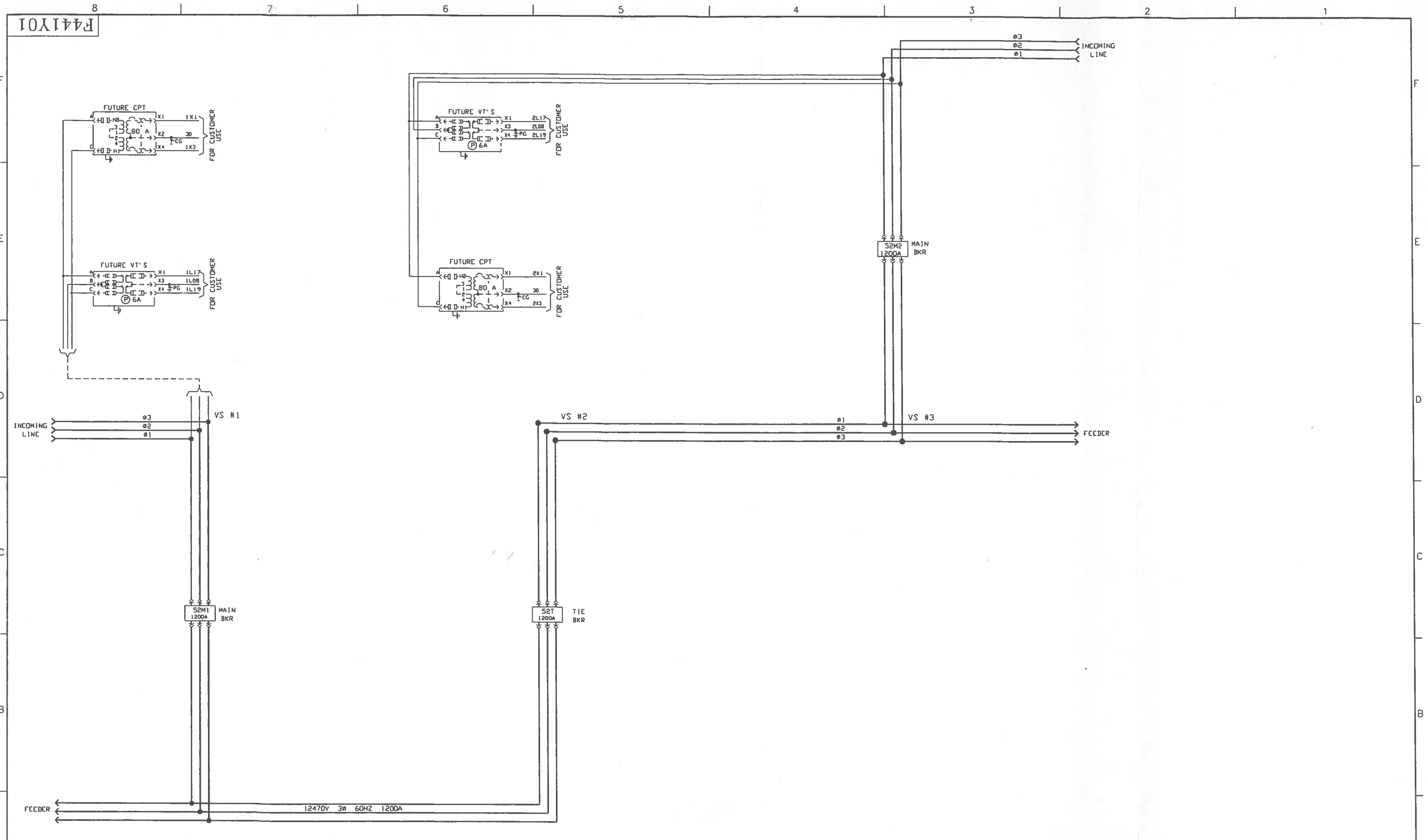
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ELECTRICAL SYMBOLS	LEGEND	1	REF
REFER TO MECH DRAWING INDEX	F441MD		REF
ELECTRICAL DWG INDEX			
ELECTRICAL LIST OF APPARATUS			
ELECTRICAL SEQUENCE OF OPER.			
THREE LINE DIAGRAM	YD1	1	2
THREE LINE DIAGRAM			
SCHMATIC DIAGRAM	EMD	1	2
SCHMATIC DIAGRAM			
SCHMATIC DIAGRAM			
CONN DIAG VERT SECT. 1	H01	2	2
	H02	2	1
	H03	2	1



REVISION

NO.	DATE	BY	APP'D
1	07/26/03	WALKER	
2		PEREZ	
		TAILOR	

72YF441	72YF441	72YF441	72YF441	72YF441	72YF441	72YF441	72YF441	72YF441	72YF441
341756464	6065	2	D	G.O.	DWG	SHEET	1 OF 1	Cutler-Hammer GREENWOOD SC	
THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.				DATE	06/11/03	TITLE		ROCK RIVER RECLAMATION ROCKFORD IL	
DFTW WALKER				DATE		TYPE		150 VCP-W 500 ELECTRICAL MASTER DRAWING	
APPD PEREZ				DATE		G.O.		SRK65244	
APPD TAILOR				DATE		DWG		F441EMD	



1 72YF441 REVISION 72YF441 REVERSED PHASING FOR INCOMING BUS IN VS#1 & VS#3M WALKER 07/26/03 PEREZ TAILOR	PHASOR ROTATION 1-2-3 	THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.		DFTR WALKER DATE 06/11/03	Cutler-Hammer GREENWOOD SC	
		FEDERAL ID NO 341756464	PRODUCT CODE 6065	REVISION 2	DWG SIZE D	TITLE ROCK RIVER RECLAMATION ROCKFORD IL
		G.O. SRK65244	DWG F441Y01	SHEET 1 OF 1		

F441H01

VERTICAL SECTION # 1
LOWER COMPARTMENT

HINGED PANEL (REAR VIEW)

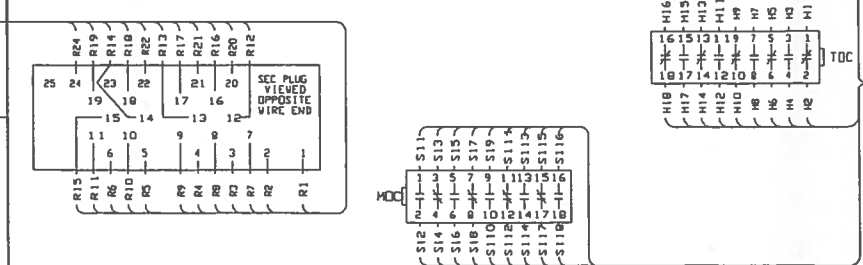
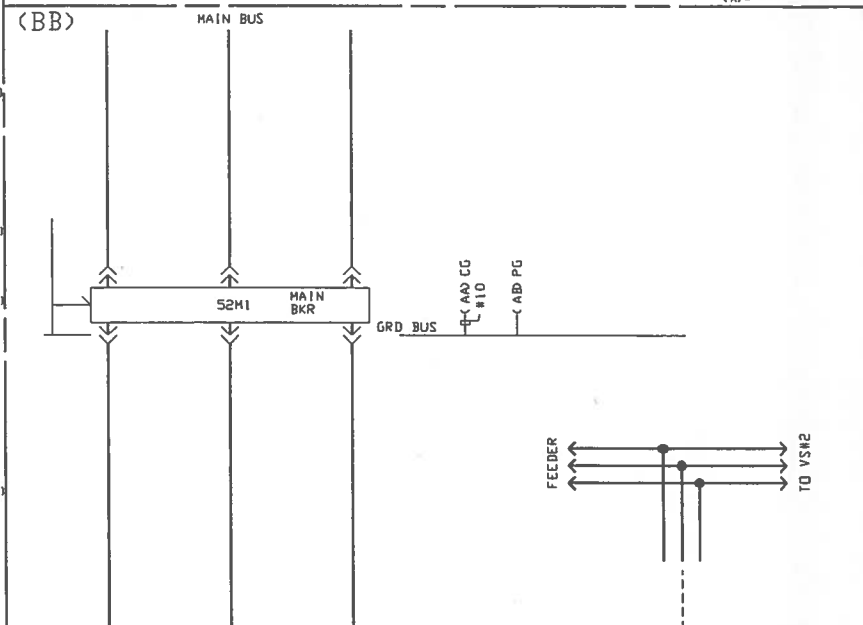
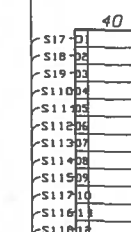
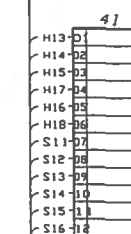
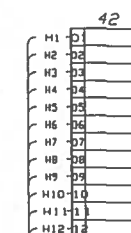
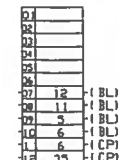
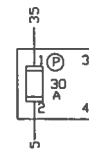
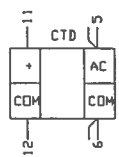
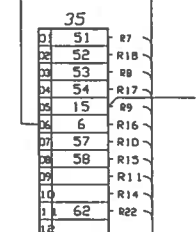
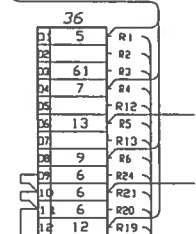
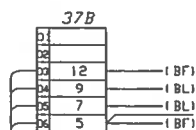
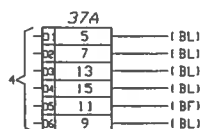
(BH)

(BL)

(BR)

(BF)

(BB)



LEFT SIDE SHEET

RIGHT SIDE SHEET

FOR CUSTOMER USE 4

B COMPARTMENT (FRONT VIEW)

72YF441
REVISION
72YF441
DELETED DOUBLE NO. 9 WIRE ON 10/3/78.
WALKER
PEREZ
TAILOR

07/26/03

#14 WIRE REQUIRED, EXCEPT AS NOTED

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.

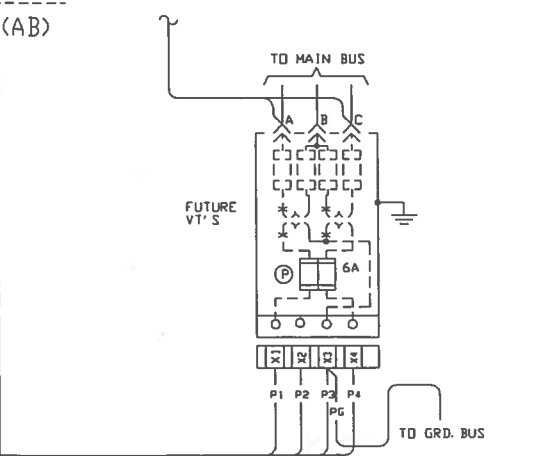
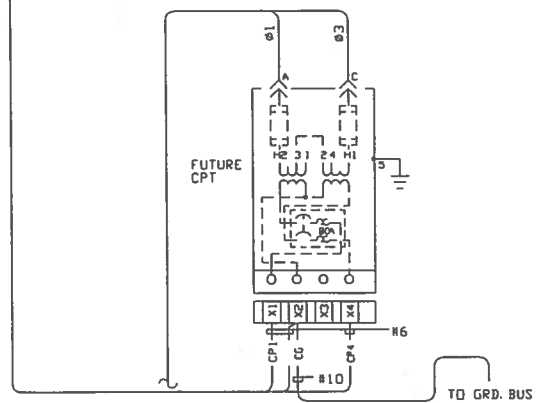
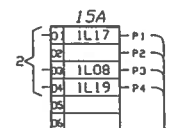
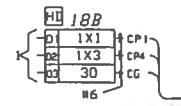
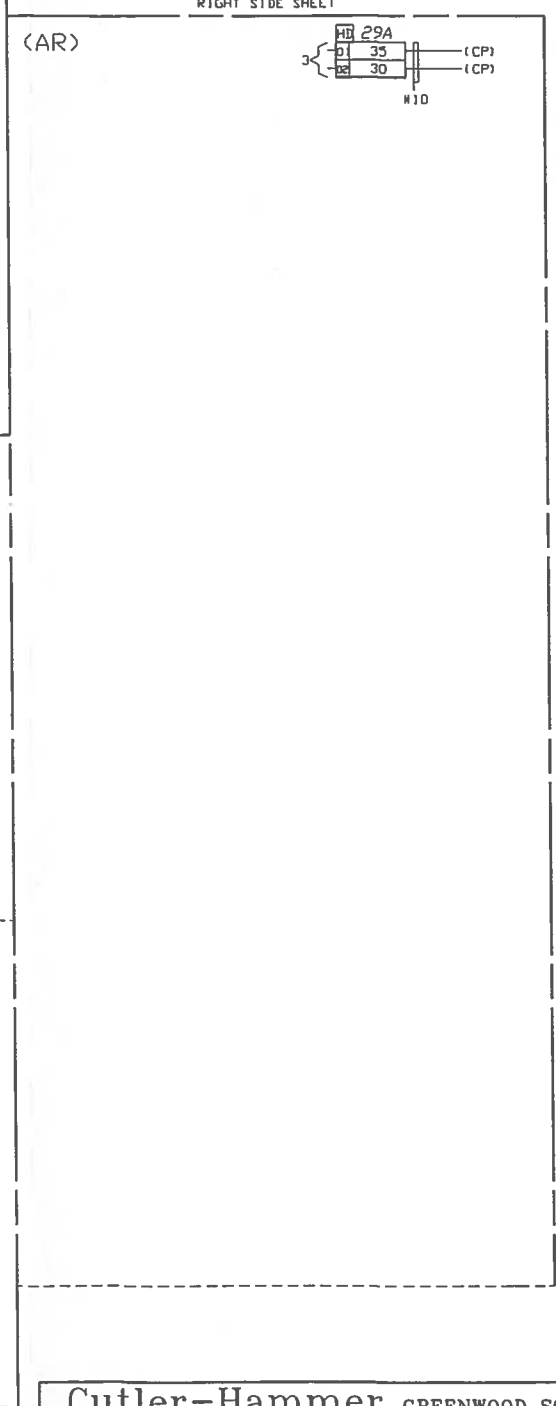
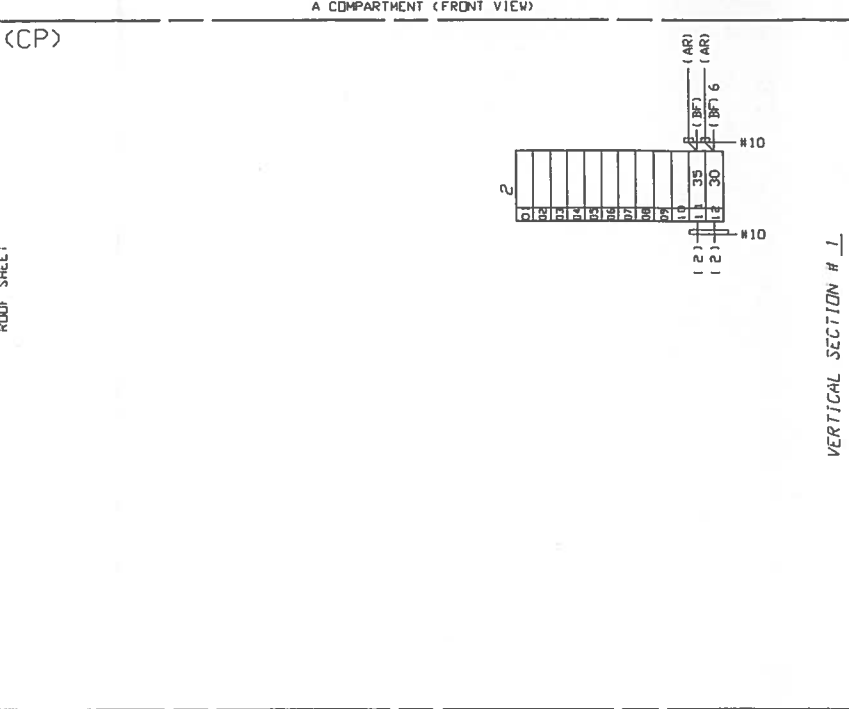
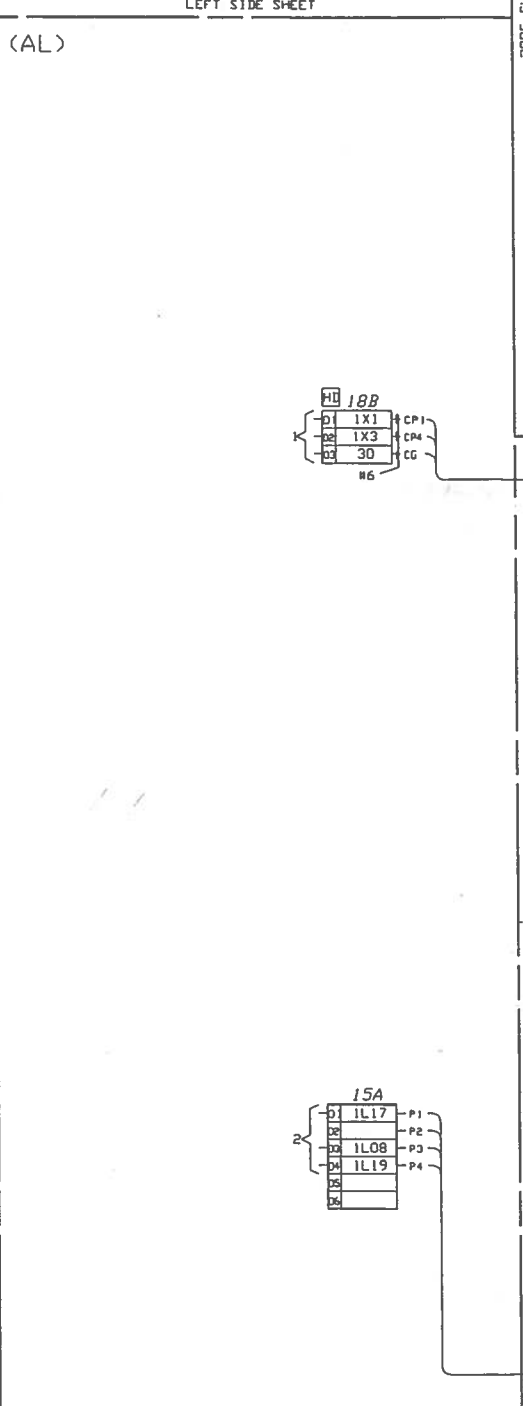
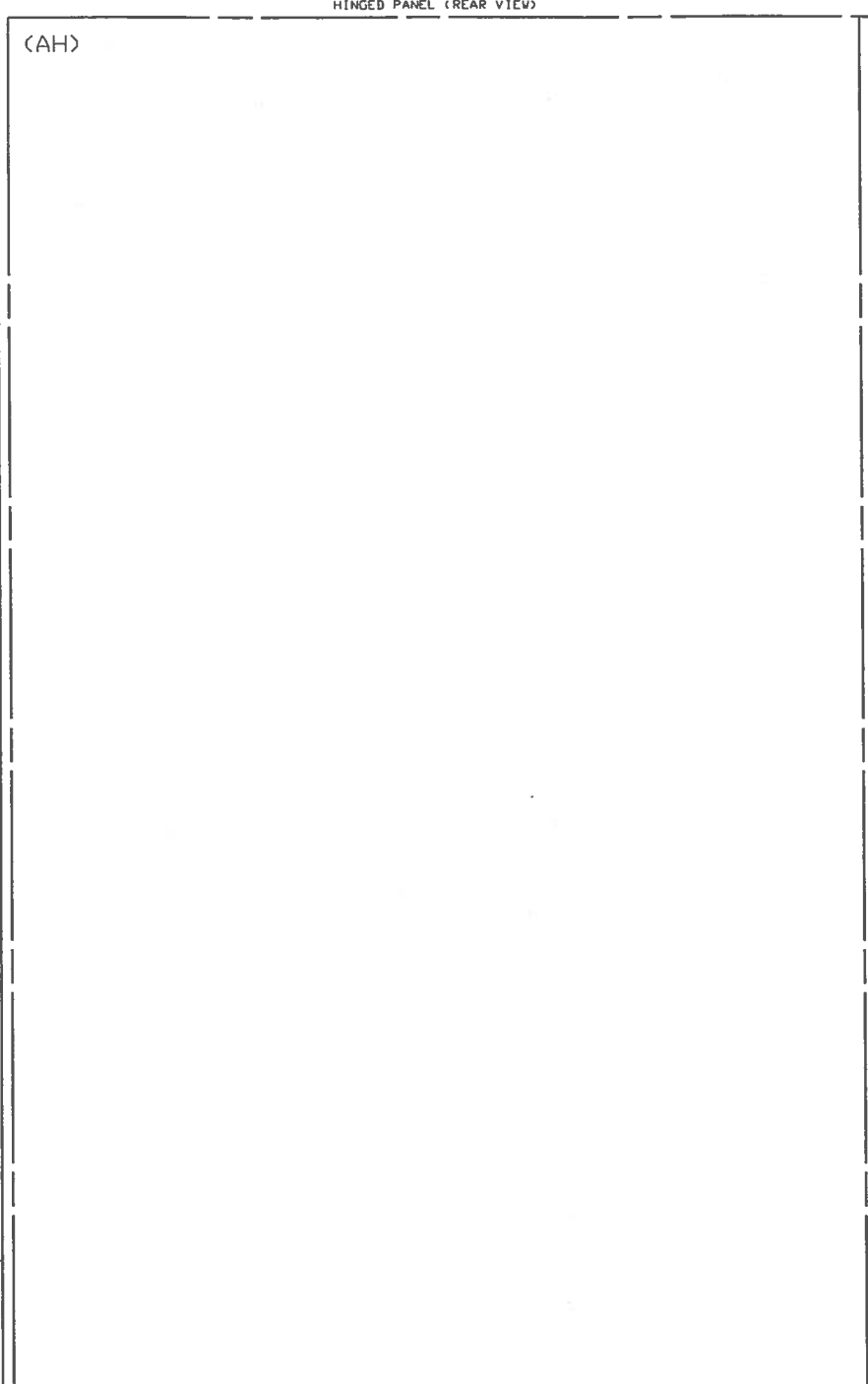
DFTR	DATE
WALKER	06/12/03
APPD	DATE
PEREZ	
APPD	DATE
TAILOR	

Cutler-Hammer GREENWOOD SC	
TITLE ROCK RIVER RECLAMATION ROCKFORD IL	
TYPE	CONN DIAG VERT SECT 1
150 VCP-W 500	
G.O.	DWG
SRK65244	F441H01
SHEET	1 OF 2

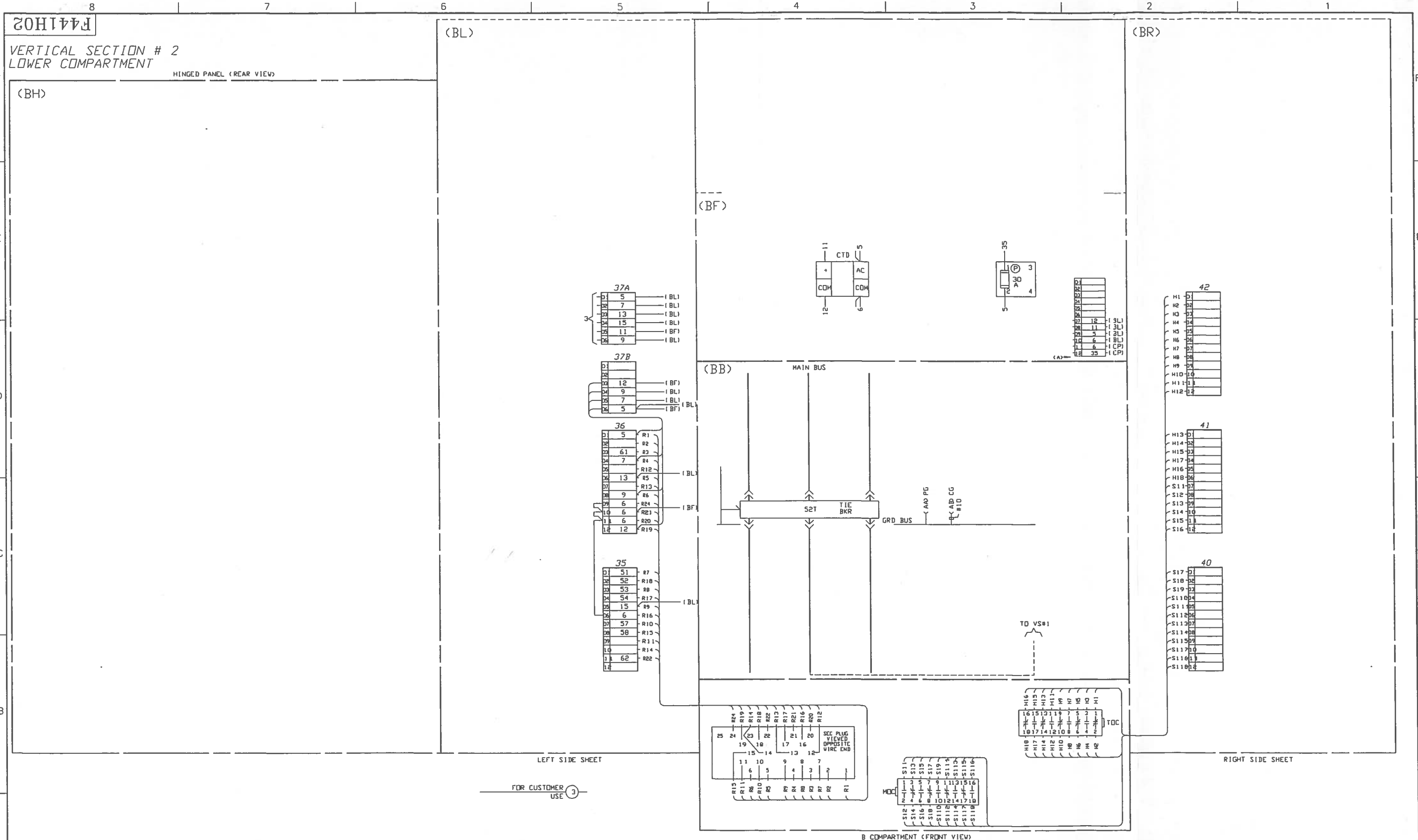
F441H01

VERTICAL SECTION # 1
UPPER COMPARTMENT

- FUTURE VT'S FOR CUSTOMER USE ①
- FUTURE CPT FOR CUSTOMER USE ②
- 120V AC BY CUSTOMER ③



Cutler-Hammer GREENWOOD SC			
TITLE ROCK RIVER RECLAMATION ROCKFORD IL			
TYPE	150 VCP-W 500	CONN DIAG VERT SECT	1
G.O.	SRK65244	DWG	F441H01
REVISION	2	DWG SIZE	D
			SHEET 2 OF 2



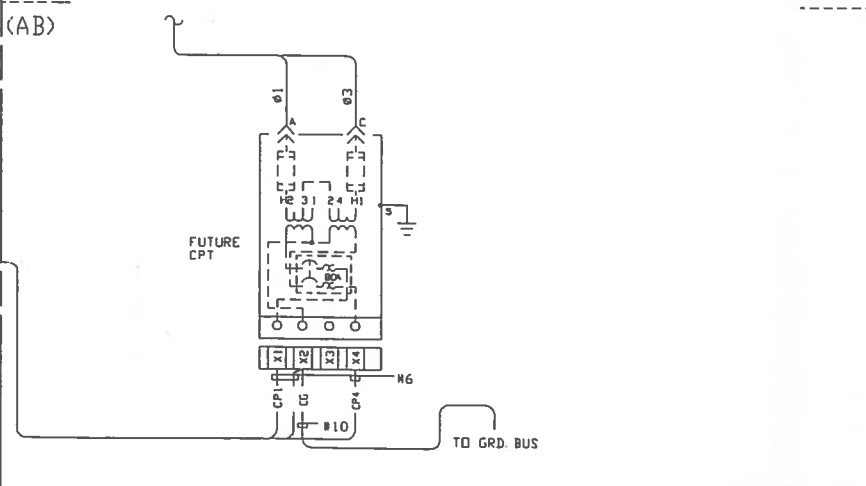
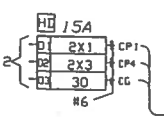
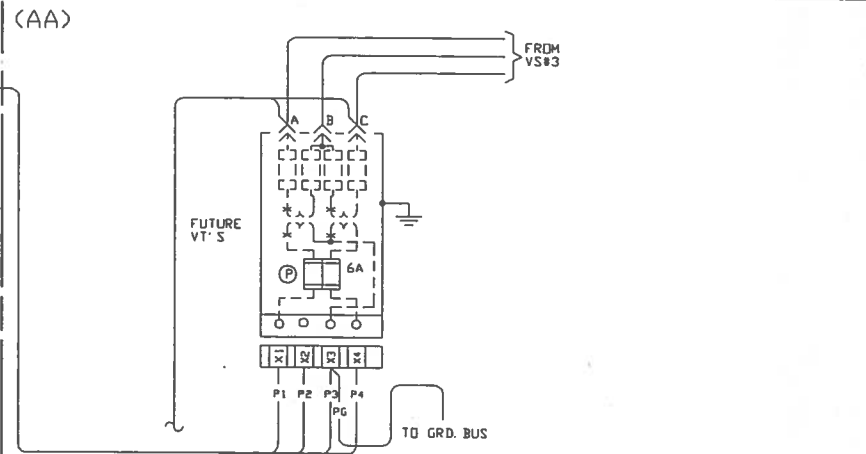
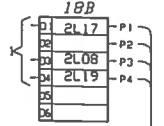
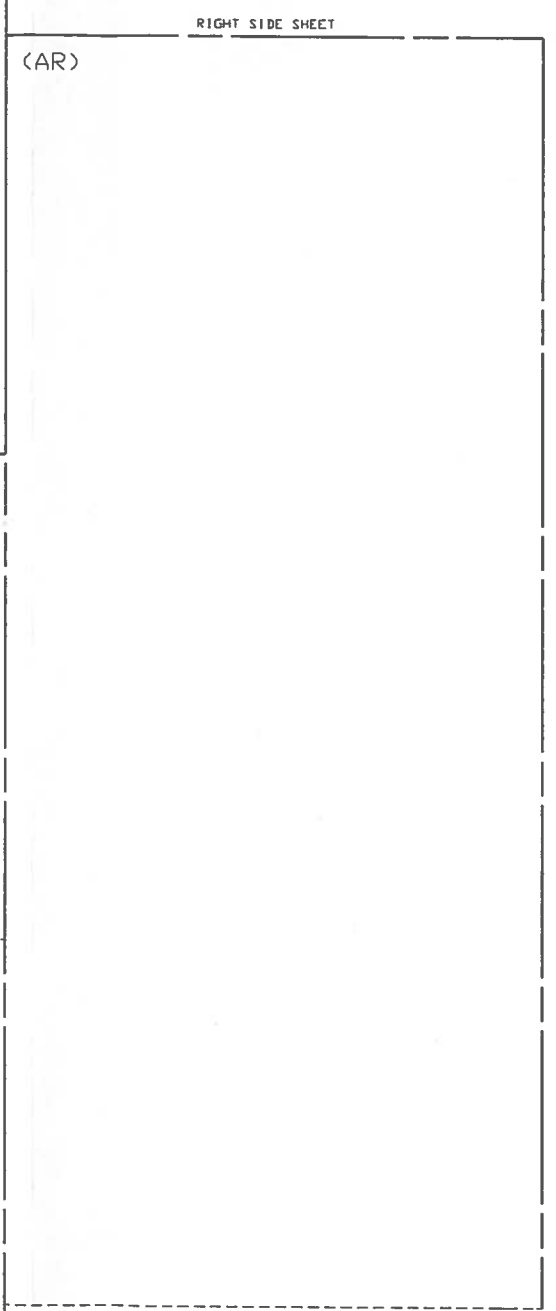
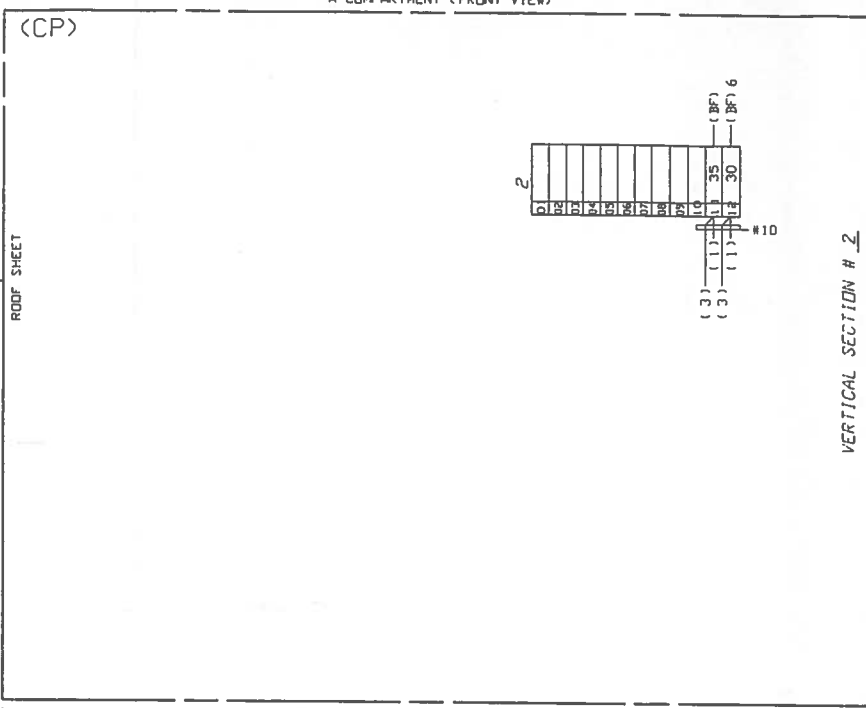
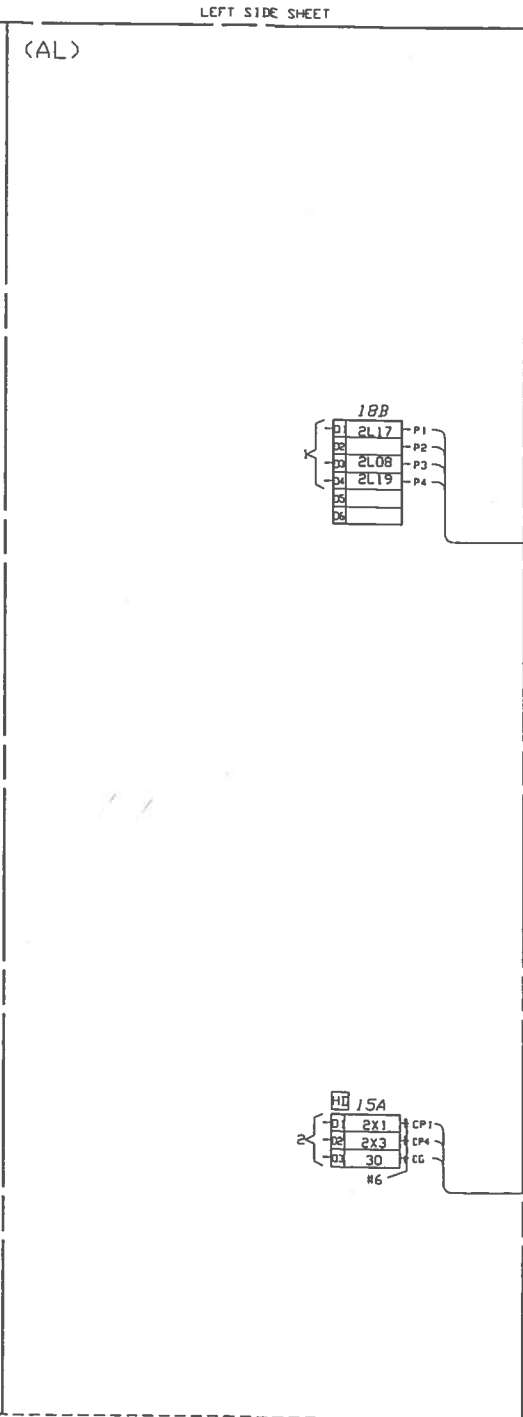
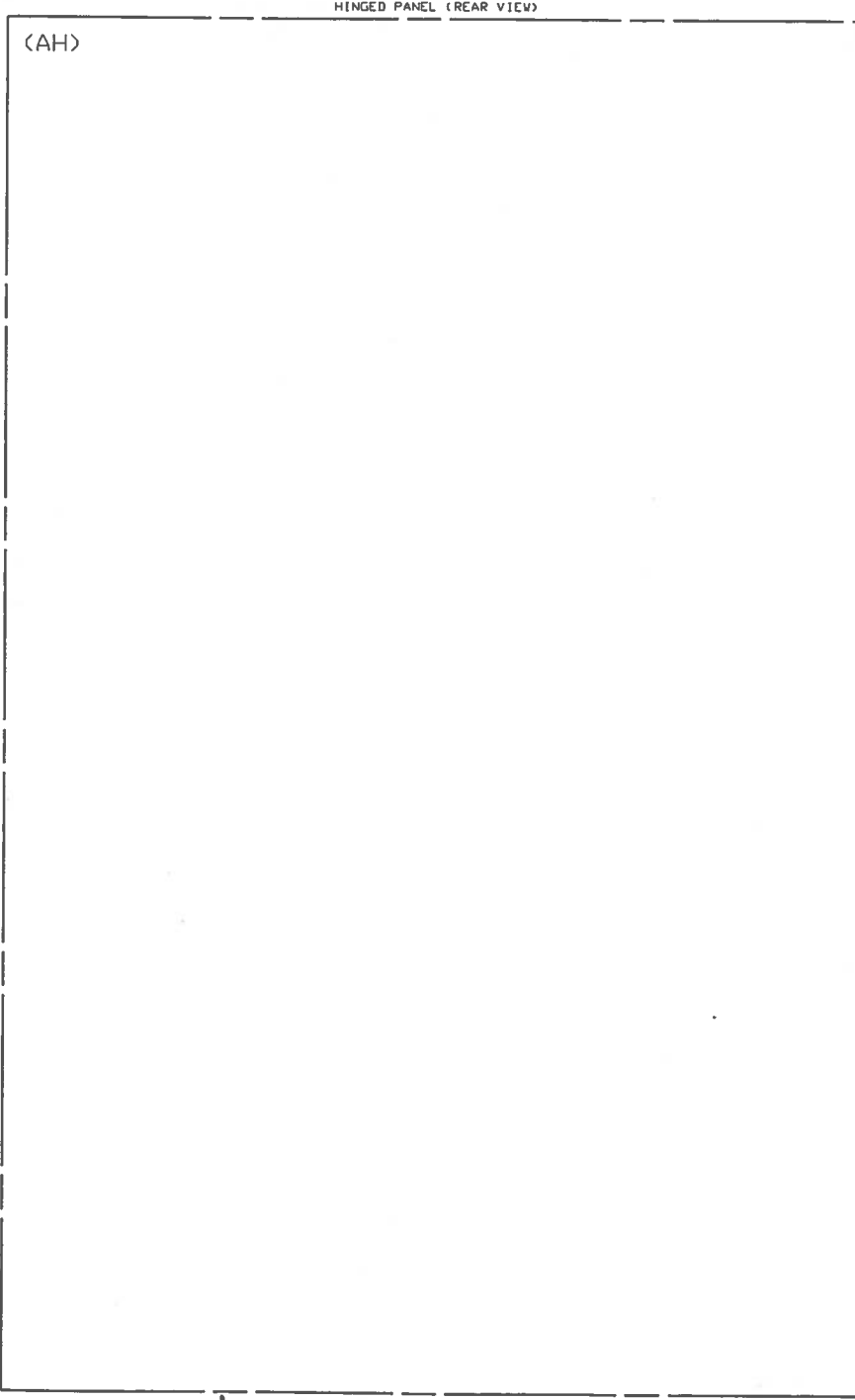
72YF441 REVISION	#14 WIRE REQUIRED, EXCEPT AS NOTED		F441EMD		DFTW WALKER DATE 06/12/03		Cutler-Hammer GREENWOOD SC		
					APPD PEREZ DATE		TITLE ROCK RIVER RECLAMATION ROCKFORD IL		
					APPD TAILOR DATE		TYPE 150 VCP-W 500 CONN DIAG VERT SECT 2		
					REVISION 1 DWG SIZE D		G.O. SRK65244 DWG F441H02 SHEET 1 OF 2		
		FEDERAL ID NO 341756464		PRODUCT CODE 6065					

F441H02

VERTICAL SECTION # 2
UPPER COMPARTMENT

FUTURE VT'S
FOR CUSTOMER USE ①
FUTURE CPT
FOR CUSTOMER USE ②

A COMPARTMENT (FRONT VIEW)



Cutler-Hammer GREENWOOD SC			
TITLE ROCK RIVER RECLAMATION ROCKFORD IL			
TYPE 150 VCP-W 500		CONN DIAG VERT SECT 2	
REVISION 1	DWG SIZE D	G.O. SRK65244	DWG F441H02 SHEET 2 OF 2

F441H03

VERTICAL SECTION # 3
LOWER COMPARTMENT

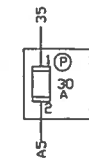
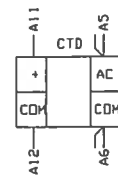
HINGED PANEL (REAR VIEW)

(BH)

(BL)

(AF)

(BR)



37	A12	(AL)
38	A11	(AL)
39	A5	(AL)
40	A6	(AL)
41	A6	(CP)
42	35	(CP)

(BA)

GRD BUS

LEFT SIDE SHEET

RIGHT SIDE SHEET

B COMPARTMENT (FRONT VIEW)

72YF441 REVISION 1	#14 WIRE REQUIRED, EXCEPT AS NOTED		THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.		DFTR WALKER	DATE 06/12/03	Cutler-Hammer GREENWOOD SC	
	F441EMD		FEDERAL ID NO 341756464		APPD PEREZ	DATE	TITLE ROCK RIVER RECLAMATION ROCKFORD IL	
	ENG DEPT REF		PRODUCT CODE 6065		APPD TAILOR	DATE	TYPE 150 VCP-W 500	CONN DIAG VERT SECT 3
49 0		341756464 6065		REVISION 1	DWG SIZE D	G.O. SRK65244	DWG F441H03	SHEET 1 OF 2

F441H03

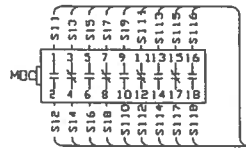
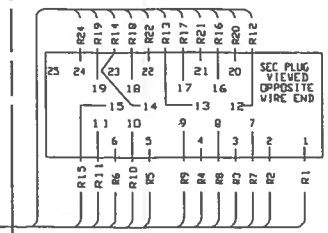
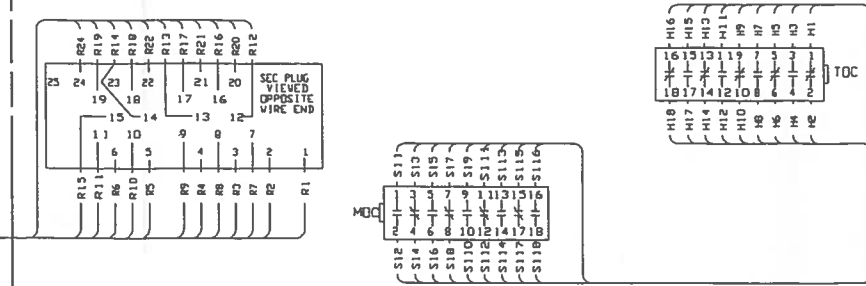
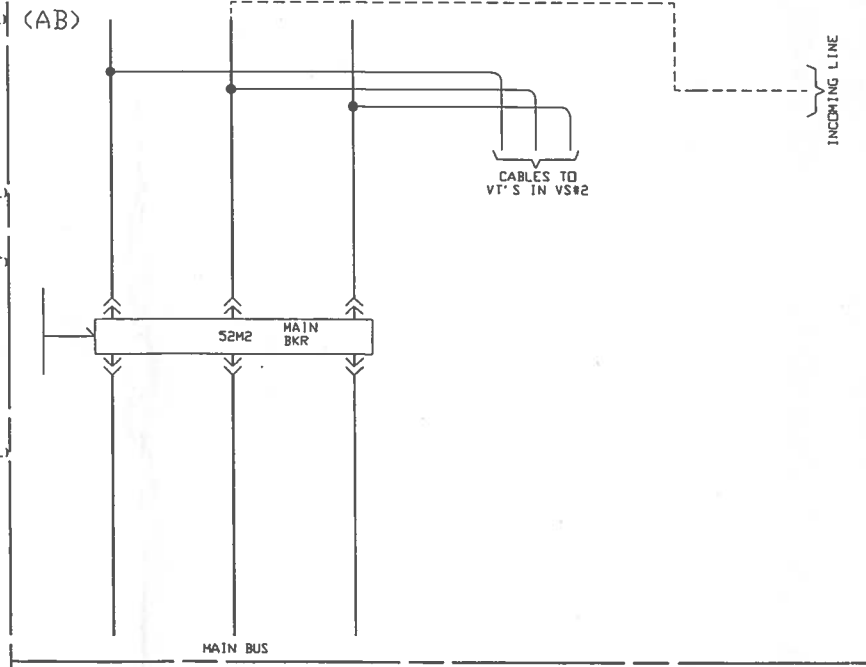
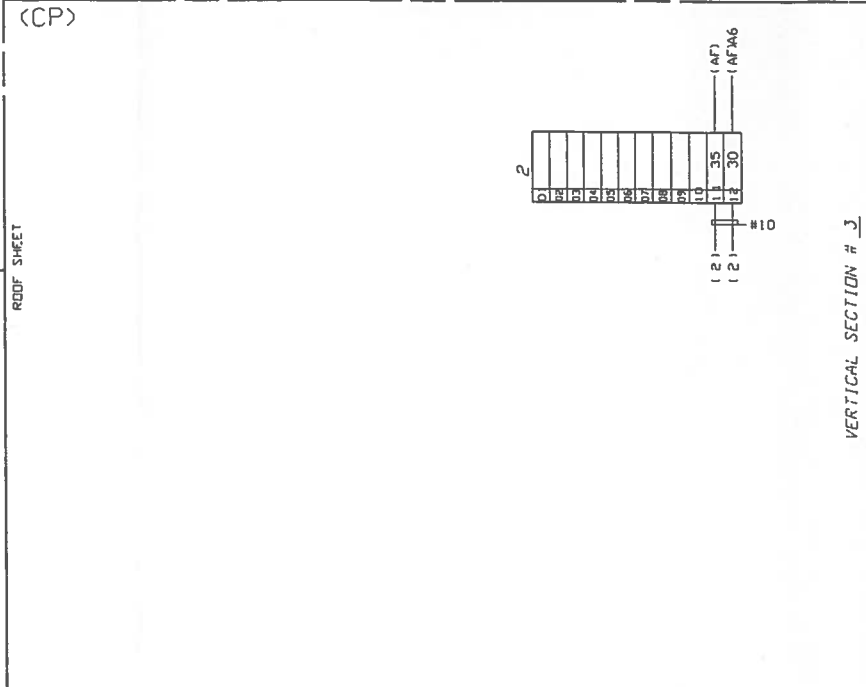
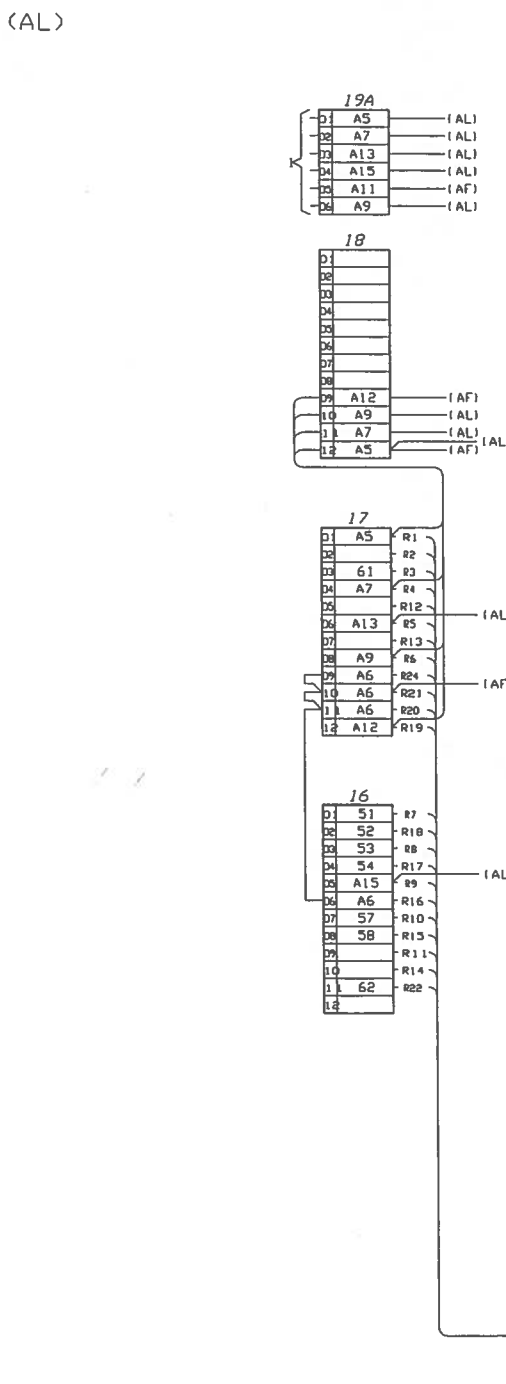
VERTICAL SECTION # 3
UPPER COMPARTMENT

HINGED PANEL (REAR VIEW)

LEFT SIDE SHEET

A COMPARTMENT (FRONT VIEW)

RIGHT SIDE SHEET



Cutler-Hammer GREENWOOD SC	
TITLE ROCK RIVER RECLAMATION ROCKFORD IL	
TYPE 150 VCP-W 500	CONN DIAG VERT SECT 3
G.D. SRK65244	DWG F441H03
REVISION 1	DWG SIZE D
SHEET 2 OF 2	