

MANUFACTURING NOTES (CONT'D)

- 21. BATTERY CABLE KITS PER TABLE U ARE FOR THE TYPICAL PLANT CONFIGURATIONS PRESENTED IN FIGURES KK AND LL ON SHEET F9 AND F10. BATTERY CABLE KITS CONTAIN KS-20921 WIRE, APPROPRIATE LUGS FOR TERMINATION AT THE BATTERY AND AT THE DISTRIBUTION ASSEMBLY, HEAT SHRINK TUBING, AND CRIMPING INFORMATION. LUG INFORMATION IS ALSO PROVIDED IN TABLE Y.
- 22. FOR EASE OF RECTIFIER INSTALLATION AND FUTURE GROWTH, IT IS RECOMMENDED THAT ALL THREE AC INPUTS TO A RECTIFIER SHELF ASSEMBLY (RSA) BE WIRED AT INITIAL INSTALLATION. AC INPUT MAY ENTER RSA FROM THE LEFT OR RIGHT. APPROPRIATE LUGS FOR 10 AWG WIRE ARE FURNISHED. REFER TO LABEL ON J857028-1 RSA (REPRODUCED IN FIGURE D ON SHEET F8) FOR WIRE ROUTING, RECOMMENDED AC FITTINGS, CRIMP TOOLS AND APPROPRIATE TORQUE VALUE.
- 23. INSTALLER SHALL ROUTE CP1 WIRING FOR OFFICE ALARMS IN J855010-1 CONTROLLER THROUGH OPENING IN LEFT SIDE OF THE CHASSIS. ALLOW SLACK IN CABLE LOOP OUTSIDE THE CONTROLLER SO THAT THE CONTROLLER DRAWER WILL SLIDE OUT FREELY. OFFICE ALARM CONNECTION INFORMATION IS PRESENTED IN T-82670-30 AND ON LABEL LOCATED INSIDE OF J855010-1 CONTROLLER DOOR.
- 24. MES INFORMATION TO APPEAR ON LABEL, ITEM 165.
- 25. THE DISTRIBUTION BUS BAR ARRANGEMENT AND CIRCUIT BREAKER MOUNTING ARE SHOWN PICTORIALY ON THE INSIDE OF THE DISTRIBUTION DOOR FOR INSTALLATION AND MAINTENANCE REFERENCE. THIS PICTORIAL IS REPRODUCED IN FIGURE G ON SHEET F9. CIRCUIT BREAKER AND CABLING POSITIONS ARE GIVEN IN FIGURES N AND O ON SHEET F7.
- 26. REFER TO SHEETS F4, F5, F6, F8, F9 AND F10 FOR CABLE ROUTING AND FIELD WIRING INFORMATION.
- 27. REFER TO SHEET F3 FOR BRACKET MOUNTING POSITIONS FOR LIST K2.
- 28. TERMINAL BLOCKS IN CONTROLLER CIRCUIT PACKS ARE SEPARABLE CONNECTORS THAT CAN BE REMOVED FROM THE BOARDS FOR WIRE INSTALLATION.
- 29. THE INTERNAL SELECTIVE HIGH VOLTAGE SHUTDOWN LEVEL AND LOAD SHARE ENABLE/DISABLE FEATURE ON RECTIFIER ARE SET WITH JUMPERS J101 AND J102 IN TABLE AC. FACTORY DEFAULT SETTING FOR HIGH VOLTAGE SHUTDOWN IS -52.0 VOLTS LOAD SHARE CHARGE. FACTORY DEFAULT SETTINGS FOR RECTIFIER ARE -52.0 VOLTS FLOAT, -54.0 VOLTS EQUALIZE.
- 30. REMOVE THE GROUND CONNECTION ASSEMBLY (COMCODE B4218602) FROM THE BATTERY STAND (SEE FIG 4 SHEET B4), AND MOUNT IT TO THE FRONT OF THE FRAME ASSEMBLY (FIG. 10, SHEET C2, ITEM 24).
- 31. REMOVE PAINT FROM FRAME BEFORE MAKING GROUND CONNECTION.
- 32. WHEN TWO LIST 105 RECTIFIER SHELF ASSEMBLIES ARE ORDERED, MOUNT THE SECOND SHELF PER FIG. 1 IN THE LOWER POSITION. REPLACE CABLE ASSEMBLIES B47731783, AND B4666220 WITH B47731809, AND B4666238, RESPECTIVELY.
- 33. DIP SWITCH SETTINGS FOR BATTERY MOUNTING ARE GIVEN IN TABLES ZA-ZC. DIP SWITCH LOCATIONS ARE GIVEN IN SECTION B1-B1, SHIP CIP.
- 34. FOR EASE OF RECTIFIER INSTALLATION AND FUTURE GROWTH WHEN THE LIST A OPTION IS ORDERED, IT IS RECOMMENDED THAT ALL AC INPUTS TO THE RECTIFIER SHELF ASSEMBLIES BE WIRED AT INITIAL INSTALLATION. REFER TO SHEET F2 FOR WIRE ROUTING.
- 35. MANUAL INTERVENTION WILL BE REQUIRED TO RESTART RECTIFIERS IN BATTERIES OPERATING MODE AFTER A LOSS OF AC POWER. JUMPER PINS ON 11342 CONTROL UNIT, SEE FIG L SHEET F0) MUST BE MOVED FROM THE ENABLE POSITION (PINS 1 & 2) TO THE DISABLE POSITION (PINS 2 & 3).
- 36. WHEN INSTALLING LIST 12 (AC PRELIM), INSTALL THE AC BDA AND RACENAY, ITEMS 140 AND 141, BEFORE INSTALLING THE CONTROLLER ON RECTIFIER SHELVES.
- 37. AS VIEWED FROM THE REAR OF THE FRAME, CROSS THE CABLE (B47731809 OR B47731783) ON THE LEFT SHELF BUS BAR UP THE LEFT SIDE OF THE FRAME. CROSS THE CABLE ON THE RIGHT SHELF BUS BAR UP THE RIGHT SIDE OF THE FRAME.

ENGINEERING NOTES

- 51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH THE PRODUCT MANUAL SPECIFIED BY SELECT CODE 167-790-034.
 - 52. THE LOW VOLTAGE DISCONNECT/RECONNECT FEATURE IS NOT FIELD UPGRADABLE.
 - 53. THE J855010-1 CONTROLLER IS CONFIGURED BY THE SHOP WITHOUT EQUALIZE CHARGING. (SEE TABLE R AND AD). IN ADDITION THE FOLLOWING ALARM LEVELS ARE SET FOR BATTERIES WHICH FLOAT AT 2.25V AND 2.27V FOR 24 CELLS.
- | ALARM LEVEL | |
|---------------|-------------------------|
| BD | -52.0V (LIST 3, 6, 107) |
| BD | -53.0V |
| RV (FLDPT) | -55.0V |
| RV (EQUALIZE) | -57.0V (DISABLED) |
- TO CONFIGURE THE CONTROLLER WITH OTHER SETTINGS, THE ENGINEER SHALL PROVIDE THE INSTALLER WITH THE NECESSARY INFORMATION PER TABLE R AND AD.

ENGINEERING NOTES (CONT'D)

- 54. THE PLANT IS FACTORY CONFIGURED FOR A -42.5 LOW VOLTAGE DISCONNECT. TO CONFIGURE THE PLANT WITH A -40.5 LOW VOLTAGE DISCONNECT, THE INSTALLER SHALL CONNECT JUMPERS J505, 1 AND J505, 2 ON THE BDA OR BDA1 CIRCUIT PACK (CP5) ACROSS PINS 2 AND 3 OF P505, 1 AND P505, 2 RESPECTIVELY. SEE TABLE S. JUMPER LOCATIONS ARE GIVEN IN FIGURE J ON SHEET F9.
 - 55. NOTE 55 REMAINS ON THE DRAWING FOR RECORD PURPOSES ONLY 55, IT HAS BEEN SUPERSEDED BY NOTE 94. ANCHOR MATERIAL IS FURNISHED PER LIST 1, 2, 3, 6, 31, 32, 41, 42, 43, 44, 51-54, 55-64 FOR INSTALLATION OF FRAMEWORK (SEE NOTE 16).
 - 56. ASSIGNMENT OF CIRCUIT BREAKERS IS CRITICAL IN ORDER NOT TO BLOCK CIRCUIT BREAKER OR DISTRIBUTION GROWTH. IF THE DISTRIBUTION FEEDERS LEAVE THE BAY TO THE LEFT, EQUIP CIRCUIT BREAKERS STARTING WITH POSITION 1. IF THE DISTRIBUTION FEEDERS LEAVE THE BAY TO THE RIGHT, EQUIP CIRCUIT BREAKERS BEGINNING WITH POSITION 42.
 - 57. ENGINEER TO SPECIFY CIRCUIT BREAKER POSITIONS FOR FIELD INSTALLATION BY INSTALLER (SEE NOTE 17). THE 45A AND 60A CIRCUIT BREAKERS ARE RECOMMENDED ONLY FOR THE BAY POSITIONS (I.E. EVEN POSITIONS FROM 2 THROUGH 20 AND ODD POSITIONS FROM 23 THROUGH 41). BALANCE THE LOAD EVENLY BETWEEN UPPER AND LOWER SIDES. THE 10, 20, 30A CIRCUIT BREAKERS OCCUPY ONE POSITION. THE 45, 60A CIRCUIT BREAKERS OCCUPY TWO POSITIONS. THERE IS A TOTAL OF FORTY TWO POSITIONS AVAILABLE.
 - 59. SEE NOTE 17.
 - 59. SEE NOTE 19.
 - 60. SEE NOTE 22.
 - 61. SEE NOTE 29.
 - 62. TYPICAL PLANT CONFIGURATIONS ARE SHOWN IN FIGURES KK AND LL OF SHEET F9 AND F10. ENGINEER TO ORDER APPROPRIATE BATTERY CABLE KITS PER TABLE U. (SEE NOTE 21).
 - 63. SPARE PARTS SHALL BE PROVIDED PER TABLE T, AND FURNISHED ONLY IN ACCORDANCE WITH CUSTOMERS REQUEST.
 - 64. FLOOR PLAN DATA IS GIVEN ON SHEET G1. THIS INFORMATION INCLUDES HEAT RELEASE DATA, HEIGHT, FOOTPRINT, AND FLOOR LOADING INFORMATION.
 - 65. FOR STANDARD APPLICATION SEE NOTE 17. WHEN USING 8 AWG WIRE FOR LOAD AND RETURN CONNECTION WITH 10, 20, OR 30 AMP CIRCUIT BREAKERS IN THE DISTRIBUTION, A CIRCUIT BREAKER ADAPTER KIT (COMCODE B46746857) MUST BE ORDERED. THIS KIT PROVIDES ONE BUS BAR (LOAD SIDE), ONE LOAD LUG, ONE RETURN LUG, HEAT SHRINK TUBING, AND SCREWS TO TERMINATE THE 8 AWG WIRE. FOR LARGE CABLE (6 AWG OR LARGER), A TERMINAL ADAPTER KIT (COMCODE B4674447) MUST BE ORDERED. THIS KIT ALSO BE ORDERED FOR THE APPROPRIATE CABLE SIZE. THE TERMINAL ADAPTER KIT REQUIRES ONE FULL POSITION NEXT TO THE CIRCUIT BREAKER IN THE GROWTH POSITION TO BE LEFT BLANK. THE 45 AND 60 AMP CIRCUIT BREAKERS TAKE UP TWO POSITIONS (SHOWN ON FIG. 1 OF SHEET F7). THE TERMINAL ADAPTER KIT IS INCLUDED WITH THE 45 AND 60 AMP CIRCUIT BREAKERS. HOWEVER LUGS FOR LOAD AND RETURN MUST BE ORDERED FOR THE APPROPRIATE CABLE SIZE. LUG SIZES CAN BE DETERMINED FROM TABLE W.
 - 66. ALL BUS BARS ARE SOLDER PLATED COPPER.
 - 67. SYSTEM GROUND CONNECTION (CENTRAL OFFICE GROUND), SHOWN IN SECT. 55-59 ON SHEET F7, WILL ACCOMMODATE THE FOLLOWING CABLE AND LUG SIZES (ALL SIZED FOR 1/4 INCH BOLT):
- | K55482 L28FR | | K520921 | |
|--------------|-------------|---------|-----|
| 6 AWG | WP91412 L3 | 6 AWG | --- |
| 4 AWG | WP91412 L5 | 4 AWG | --- |
| 2 AWG | WP91412 L54 | 4 AWG | --- |
| 1 AWG | WP91412 L8 | 2 AWG | --- |
- FOR SYSTEM GROUND APPLICATIONS LARGER THAN THOSE SPECIFIED ABOVE, USE ADAPTER KIT (ITEM 60) AS SHOWN IN SECT. U-J-JJ ON SHEET F7. THE ADAPTER KIT WILL ACCOMMODATE THE FOLLOWING CABLE AND LUG SIZES (ALL SIZED FOR 3/8 INCH BOLT):
- | K55482 L28FR | | K520921 | |
|--------------|-------------|---------|-----|
| 1/0 AWG | WP91412 L56 | --- | --- |
| 2/0 AWG | WP91412 L57 | 1/0 AWG | --- |
| 3/0 AWG | WP91412 L77 | 2/0 AWG | --- |
| 4/0 AWG | WP91412 L59 | 3/0 AWG | --- |
| --- | WP91412 L27 | 4/0 AWG | --- |

- 68. LISTS 1-72 ON TABLE "A" ARE CONFIGURED LISTS. LIST A IS THE ONLY FACTORY INSTALLED OPTION. THEREFORE, LISTS 1, 2, 3, 5, 31, 32, 61, 62, 71, 72 MAY BE ORDERED EQUIPPED WITH LIST A ONLY. LISTS 3-10 AND K10-K33 ARE SEPARATE SHIPPING ENTITIES. FOR EXAMPLE DO NOT ORDER J855000-2 LIST 1 EQUIPPED WITH THREE LIST B.
- 69. ITEM E1 (TABLE B), M28041418 MICROPROCESSOR BOARD (CP2 WITH NO VOICE RESPONSE) AND ITEM E2 (TABLE B), M28041438 MICROPROCESSOR BOARD (CP2 WITH VOICE RESPONSE) ARE PLUG-IN BOARDS WHICH ARE SHIPPED SEPARATELY. ITEM E1 AND E2 (TABLE B) INCLUDE A MICROPROCESSOR BOARD, BACKUP BATTERY, AND PRODUCT MANUAL.

ENGINEERING NOTES (CONT'D)

- 70. ITEM E3 (TABLE B), DATALOGGER CIRCUIT PACK IS A PLUG-IN BOARD WHICH IS SHIPPED SEPARATELY. ITEM E3 (TABLE B), INCLUDES A BAC1 BOARD (CP3), A SET OF CURRENT LIMITING RESISTOR ASSEMBLIES, AND A PRODUCT MANUAL.
- 71. ITEM E4 (TABLE B), DATALOGGER CIRCUIT PACK WITH REMOTE TERMINATION PANEL, CONSISTS OF A PLUG-IN BOARD AND A TERMINATION UNIT WHICH ARE SHIPPED SEPARATE FROM THE CONTROLLER. ITEM E4 (TABLE B), INCLUDES A BAC2 BOARD (CP3), A SET OF CURRENT LIMITING RESISTOR ASSEMBLIES, A TERMINATION UNIT WITH CABLE SET, AND A PRODUCT MANUAL.
- 72. CURRENT LIMITING RESISTOR ASSEMBLIES (PART OF LIST B OR S) ARE REQUIRED IN THE INSTALLATION OF CP3 AND ARE CALIBRATED INTO THE DATALOGGER. ANALOG CHANNEL READINGS WILL NOT BE ACCURATE WITHOUT THESE RESISTORS. THEY ARE REQUIRED TO ENSURE THAT FIELD WIRING TO CP3 IS CLASS 2 PER NEC. (SEE PRODUCT MANUAL 167-790-109).
- 73. BRACKETS MAY BE INSTALLED ON TOP OF BATTERY RETAINER ASSEMBLY IF REQUIRED. INSTALL 4 PROVIDE A CABLE SUPPORT POINT APPROXIMATELY EVERY 24 INCHES. ITEM 154 PROVIDED TO ATTACH BRACKETS TO ITEM 24 FRAME.
- 74. LIST K10 VOICE RESPONSE UPGRADE KIT, CONSISTS OF TWO SPEECH INTEGRATED CIRCUITS AND INSTRUCTIONS TO ADD THE VOICE RESPONSE FEATURE TO THE LIST S.
- 75. FOR ASSEMBLY OF THE TERMINATION PANEL (LIST K10) SEE DRAWING J855010-1 SUPPLIED WITH THE SERVICE KIT.
- 76. LISTS 51-54 MAY NOT BE FIELD UPGRADED WITH A SECOND RECTIFIER SHELF. THIS IS NOT RECOMMENDED DUE TO PLANT SHUTDOWN BEING REQUIRED TO PROTECT INSTALLER FROM EXPOSURE TO HAZARDOUS VOLTAGE.
- 77. LISTS 61-64 ARE TWO-PIECE BATTERY SHELF ASSEMBLIES INTENDED FOR APPLICATIONS OF 2VR250E BATTERIES WHERE THE ONE-PIECE WELDED SHELF ASSEMBLIES OF L-1, 2, 41 & 42 WILL NOT FIT THROUGH THE STRUCTURE ENTRANCES, THAT IS DOWN THE HATCH IN A CEV.
- 78. PRIOR TO ISSUE 5 OF THIS DRAWING LIST B WAS PROVIDED AS STANDARD WITH LISTS 1, 2, 31, 32.
- 79. THE INITIAL BAYS WHICH INCLUDE ONE STRING OF BATTERIES ARE QUALIFIED FOR ZONE 4 UPPER FLOOR EARTHQUAKES WHILE THE SUPPLEMENTARY STANDS EQUIPPED WITH VR BATTERIES ARE QUALIFIED FOR ZONE 1 EARTHQUAKES WHEN TWO BATTERY STRINGS ARE USED AND QUALIFIED FOR ZONE 4 WHEN ONLY ONE BATTERY STRING IS USED.
- 80. BATTERY CABLE KIT FOR STRING POS-1 FURNISHED AS PART OF LIST 61, 62.
- 81. LIST K33 CONSISTS OF (3) LENGTHS OF KS15141 CDE 3 CONDUCTOR WIRE, TERMINATED ON ONE END WITH NO. 8 LUGS. SHIPPED LOOSE ARE (3) 20A 250V AC PLUGS, (3) 5/8" 90 DEGREE ELBOW AND HARDWARE.
- 82. LISTS 101 THRU 111 ARE INTENDED FOR ORDERING USING THE PROSE CONFIGURATOR PROGRAM. LIST 101 MAY BE ORDERED MANUALLY AS STAND ALONE. FOR FRAME ASSEMBLY LIST 102 MAY BE ORDERED EQUIPPED WITH COMBINATIONS OF LISTS 103-111 PER TABLE FP MANUALLY IF REQUIRED.
- 83. LISTS 3, 6 AND 107 INCLUDE BATTERY MANAGEMENT SYSTEM CABLING FOR ONE STRING OF VR BATTERIES. IF TWO STRINGS ARE REQUIRED SEE TABLE Z FOR REQUIRED ADDITIONAL CABLING ORDERING INFORMATION.
- 84. IF MORE THAN 12 FEET OF CABLE ARE NECESSARY TO REACH FROM THE BATTERY MANAGEMENT SYSTEM CIRCUIT PACK (BMM1) TO THE BATTERY STRING (S), SEE TABLE Z FOR EXTENSION CABLE ORDERING INFORMATION. EACH EXTENSION CABLE MAY BE LINKED TOGETHER. 150 FEET MAX. RECOMMENDED.
- 85. LISTS 3, 6 AND 107 INCLUDE A CABLE SET FOR CONNECTION BETWEEN THE BATTERY MANAGEMENT SYSTEM AND CP1. CP3 IS INSTALLED AND REMOTE MONITORING OF BATTERY PARAMETERS IS DESIRED. SEE TABLE Z FOR CP3 CABLE ORDERING INFORMATION.
- 86. IF THE BATTERY MANAGEMENT SYSTEM IS DESIRED FOR AN EXISTING PLANT IN THE FIELD, SEE TABLE Z FOR RETROFIT KIT ORDERING INFORMATION.
- 87. LIST K11 OR K12 IS A MICROPROCESSOR CIRCUIT PACK (CP2) WITH X.25/71.1 FUNCTIONS. THIS LIST IS A PLUG-IN BOARD WHICH IS SHIPPED SEPARATELY. IT INCLUDES A CP2 BOARD, ITS BACKUP BATTERY, WIRING, F5485-TO-B5232 CONVERTER, AND PRODUCT MANUAL. X.25/71.1 IS A DIFFERENT COMMUNICATIONS PROTOCOL THAT MAY BE USED TO ACCESS THE CONTROLLER.
- 88. REFER TO TABLE 2D FOR ORDERING INFORMATION FOR ADDITIONAL OPTIONAL EQUIPMENT FOR X.25/71.1 COMMUNICATION SYSTEM OR FOR SOFTWARE UPGRADE TO AN EXISTING MICROPROCESSOR BOARD (CP2). THIS UPGRADE IS NOT AVAILABLE FOR CP2'S CODED M2804141-44. IF THIS OPTION IS DESIRED, ORDER NEW MICROPROCESSOR BOARD CP2 (SEE LIST K11 OR K12).
- 89. WHEN INSTALLING THE BATTERY MANAGEMENT RETROFIT KIT (E03241-30 GROUP K1) IT IS RECOMMENDED THAT THE 80 ALARM LEVEL BE SET TO -52.0V FOR 24 CELL STRINGS, AND -49.5 FOR 23 CELL STRINGS.
- 90. IF REMOTE MONITORING OF BATTERY PARAMETERS IS DESIRED (CONNECTION TO CP3), VERSION 2.2 OR GREATER IS REQUIRED IN THE MICROPROCESSOR BOARD (CP2). THIS IS ORDERABLE AS J855000-2 LIST S OR LIST 7.

ENGINEERING NOTES (CONT'D)

- 91. THE LIST K34 12 INCH BAY EXTENSION MAY BE USED TO RETROFIT EXISTING BAYS ONLY UNDER CERTAIN CIRCUMSTANCES. THE BAY ENVIRONMENT SHOULD BE EXAMINED TO INSURE THAT PHYSICAL OBSTRUCTIONS WILL NOT PRECLUDE EXTENSION INSTALLATION. THIS LIST IS DESIGNED TO BE USED ON THE INITIAL BAY ONLY. SHEET F9, FIGURE 11 SHOWS AN INSTALLED LIST K34 12 INCH BAY EXTENSION.
- 92. ITEMS INCLUDED WITHIN THIS KIT ARE LISTED AT THE END OF THE STOCKLIST FOR REFERENCE ONLY.
- 93. THIS KIT MAY CONTAIN EXTRA HARDWARE NOT REQUIRED TO INSTALL CERTAIN LISTS IN THE FIELD.
- 94. AS OF ISSUE 15 THE ANCHOR BOLTS FURNISHED WITH THIS FRAME HAVE BEEN REMOVED FROM THE STOCKLIST. REFER TO H590-407 FOR SELECTION OF THE ANCHOR BOLTS NECESSARY TO SECURE THIS FRAME TO THE FLOOR. IT IS RECOMMENDED THAT THE FOLLOWING GROUPS BE PROVIDED BASED ON EARTHQUAKE CERTIFICATION TESTING COMPLETED FOR THIS FRAME.

TABLE X - APPROVED EQUIVALENTS

ITEM	XA	XB	XC	XD	YE
	REF DESIG	DESCRIPTION	COMCODE	SYM	NO.

TABLE A (CONTINUED) - FEATURES

LINE	DESCRIPTION	RATING	LIST	QTY	CIRCUIT	FIG.	WIRING	APPARATUS
201	TWELVE INCH EXTENSION FOR USE IN AN EIGHT FOOT TALL FRAME ENVIRONMENT. (SEE NOTE 91 AND SHEET F3, FIGURE 11.)		K34	1				
202	UPPER FRAME ASSEMBLY FOR MOUNTING ON A FOUR SHELF BATTERY STAND (SEE NOTE B2)		101	1				
203	UPPER FRAME ASSEMBLY EQUIPPED WITH AN ECS CONTROLLER FOR MOUNTING ON A FOUR SHELF BATTERY STAND (SEE NOTE B2)		102	1	T-82670-30			
204	ECS RECTIFIER SHELF ASSEMBLY (SEE NOTES 32, B2)		103	1	T-82670-30			
205	LOW VOLTAGE DISCONNECT/RECONNECT ASSEMBLY (SEE NOTE B2)		104	1	T-82670-30			
206	FORTY-TWO POSITION DISTRIBUTION PANEL (SEE NOTE B2)		105	1	T-82670-30			
207	STANDARD FUSE ALARM BOARD WITH DOOR ASSEMBLY (SEE NOTE B2)		106	1	T-82670-30			
208	BATTERY MANAGEMENT BOARD WITH DOOR ASSEMBLY (SEE NOTES 33, B2, B3, B4, B5, B6)		107	1	T-82670-30, T-83119-30	H12, H3, H4, H7		
209	TRANSITION ASSEMBLY FOR MOUNTING ON BATTERY STANDS FOR CONNECTING TO CABLE RACK (SEE NOTE B2)		108	1				
210	FOUR SHELF FIELD-ADAPTABLE BATTERY STAND (SEE NOTE B2)		109	1				
211	EIGHT-SHELF FIELD-ADAPTABLE BATTERY STAND (SEE NOTE B2)		110	1				
212	FOUR-SHELF BATTERY STAND FOR USE WITH ONE STRING OF AT&T 2VR250E BATTERIES (SEE NOTE B2)		111	1				

TABLE AC - RECTIFIER DIP SWITCH (S701) SETTINGS FOR S950/-48V RECTIFIER (SEE NOTE 29)

INTERNAL SELECT HVSD (VOLT)	LOAD SHARE				
	1	2	3	4	5
-50.0	1	1	1	1	1
-51.0	1	1	1	1	0
-52.0	1	1	0	1	1
-53.0	1	1	0	0	1
-54.0	1	0	1	1	1
-55.0	1	0	1	0	1
-56.0	1	0	0	1	1
-57.0	1	0	0	0	1
-58.0	0	1	1	1	1

1=ENABLED
0=DISABLED

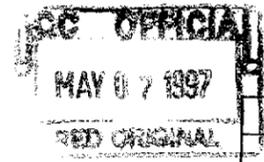


TABLE AD: DIP SWITCH SETTINGS FOR CONTROLLER (SEE NOTES 7, 53)

SWITCH SETTINGS (0 = OPEN, 1 = CLOSED)			SWITCH SETTING				
SM 101-HV/ED	SM 102-HV/PL	SM 103-BD	-1	-2	-3	-4	-5
-51.00	-49.00	-46.00	1	1	1	1	0
-51.50	-49.50	-46.50	0	1	1	1	0
-52.00	-50.00	-47.00	1	0	1	1	0
-52.50	-50.50	-47.50	0	0	1	1	0
-53.00	-51.00	-48.00	1	1	0	1	0
-53.50	-51.50	-48.50	0	1	0	1	0
-54.00	-52.00	-49.00	1	0	0	1	0
-54.50	-52.50	-49.50	0	0	0	1	0
-55.00	-53.00	-50.00	1	1	1	0	0
-55.50	-53.50	-50.50	0	1	1	0	0
-56.00	-54.00	-51.00	1	0	1	0	0
-56.50	-54.50	-51.50	0	0	1	0	0
-57.00	-55.00	-52.00	1	1	0	0	0
-57.50	-55.50	-52.50	0	1	0	0	0
-58.00	-56.00	-53.00	1	0	0	0	0
-58.50	-56.50	-53.50	0	0	0	0	0
-59.00	-57.00	-54.00	1	1	1	0	0
-59.50	-57.50	-54.50	0	1	1	0	0
-60.00	-58.00	-55.00	1	0	1	0	0

TABLE B: SUPPLEMENTARY COMPONENTS WHICH ARE FIELD INSTALLED

POWER UNIT			
ITEM	DESCRIPTION	CODE	FORMER ORDERING LIST
A1	SR80/-48V (364A3) POWER UNIT	107310187	J855000-2, L4 T-82670-30 FIG H14

CIRCUIT BREAKER OPTIONS			
ITEM	DESCRIPTION	CODE	FORMER ORDERING LIST
B1	3 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L20) (SEE NOTES 17, 56, 57, 72)	406746313	J855000-2, L16 T-82670-30 FIG 1
B2	5 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L21) (SEE NOTES 17, 56, 57, 72)	406746321	J855000-2, L17 T-82670-30 FIG 1
B3	15 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L23) (SEE NOTES 17, 56, 57, 72)	406746347	J855000-2, L18 T-82670-30 FIG 1
B4	10 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L22) (SEE NOTES 17, 56, 57, 72)	406746339	J855000-2, L11 T-82670-30 FIG 1
B5	20 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L24) (SEE NOTES 17, 56, 57, 72)	406746354	J855000-2, L12 T-82670-30 FIG 1
B6	30 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L25) (SEE NOTES 17, 56, 57, 72)	406746362	J855000-2, L13 T-82670-30 FIG 1
B7	45 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L26) (SEE NOTES 17, 56, 57, 72)	406746370	J855000-2, L14 T-82670-30 FIG 1
B8	60 AMPERE PLUG-IN CIRCUIT BREAKER KIT (KS23616, L27) (SEE NOTES 17, 56, 57, 72)	406746388	J855000-2, L15 T-82670-30 FIG 1

FUSE OPTIONS

ITEM	DESCRIPTION	CODE
C1	FUSE HOLDER (18300-A1)	406980797
C2	5 AMPERE PLUG-IN FUSE (TPA-5)	407006329
C3	10 AMPERE PLUG-IN FUSE (TPA-10)	407006337
C4	15 AMPERE PLUG-IN FUSE (TPA-15)	407006345
C5	20 AMPERE PLUG-IN FUSE (TPA-20)	407006352
C6	30 AMPERE PLUG-IN FUSE (TPA-30)	407006378

BATTERY STRING OPTIONS

ITEM	QTY	DESCRIPTION	CODE	FORMER ORDERING LIST
D1	24	(1) 375AH STRING OF 2VR375E BATTERIES. (MAX 7 STRINGS PER PLANT) (SEE NOTE 18). (RECOMMENDED FLOAT VOLTAGE -54.48V)	407435825	J855000-2, L20 T-82670-30 FIG H3 T-82671-30 FIG 1
D2	24	(1) 250AH STRING OF 2VR250E BATTERIES. (MAX 7 STRINGS PER PLANT) (SEE NOTE 18). (RECOMMENDED FLOAT VOLTAGE -54.48V)	407435841	J855000-2, L21 T-82670-30 FIG H3 T-82671-30 FIG 1
D3	24	(1) 375AH STRING OF 2VR375E BATTERIES. (MAX 7 STRINGS PER PLANT) (SEE NOTE 18). (RECOMMENDED FLOAT VOLTAGE -52.21V)	407435825	J855000-2, L22 T-82670-30 FIG H3 T-82671-30 FIG 1
D4	24	(1) 250AH STRING OF 2VR250E BATTERIES. (MAX 7 STRINGS PER PLANT) (SEE NOTE 18). (RECOMMENDED FLOAT VOLTAGE -52.21V)	407435841	J855000-2, L23 T-82670-30 FIG H3 T-82671-30 FIG 1
D5	12	(1) 125AH STRING OF 4VR125EL BATTERIES. (MAX 7 STRINGS PER PLANT) (SEE NOTE 18). (RECOMMENDED FLOAT VOLTAGE -54.48V)	407435858	J855000-2, L24 T-82670-30 FIG H3 T-82671-30 FIG 1

CONTROLLER OPTIONS (SEE NOTE 16)

ITEM	DESCRIPTION	CODE	FORMER ORDERING LIST
E1	ONE MC80041A19 MICROPROCESSOR CIRCUIT PACK (CP2) WHICH PROVIDES REMOTE/LOCAL MONITORING AND CONTROL FUNCTIONS. (SEE NOTES 69, 74)	846882191	J855000-2, L5 T-82670-30 FIG H7
E2	ONE MC80041A39 MICROPROCESSOR CIRCUIT PACK (CP2) WHICH IS THE SAME AS ITEM E1 (CP2), WITH A VOICE RESPONSE FEATURE. (SEE NOTES 69, 74)	846882193	J855000-2, L7 T-82670-30 FIG H7
E3	ONE BAC1 DATALOGGER CIRCUIT PACK (CP3). CP3 IS A DATA ACQUISITION CIRCUIT PACK THAT ALWAYS REQUIRES AN ITEM E1 OR E2 (CP2) CIRCUIT PACK. (SEE NOTES 70, 72)	846575223	J855000-2, L8 T-82670-30 FIG H9
E4	ONE BAC2 DATALOGGER CIRCUIT PACK (CP3) WHICH IS THE SAME AS ITEM E3 (CP3), WITH A REMOTE TERMINATION PANEL. THE REMOTE TERMINATION PANEL ALLOWS EXTERNAL CONNECTION TO THE (CP3) CIRCUIT PACK. (NOTES 71, 72)	846532982	J855000-2, L9 T-82670-30 FIG H10

TABLE BC: LINEAGE 2000 VR SERIES BATTERIES INDIVIDUAL BATTERY ORDERING INFORMATION

ENHANCED VR BATTERIES		WITHOUT CAN (DA'D)		WITH CAN		MODEL NO.	DESCRIPTION
COMCODE	SPEC	COMCODE	SPEC	COMCODE	SPEC		
406020347	KS23619, L2	407411088	KS23619, L13	407435825	KS23619, L23	2VR375E	2 VOLT, 375 AH VR SERIES BATTERY
406020353	KS23619, L3			407435833	KS23619, L22	4VR125E	2 VOLT, 375 AH VR SERIES BATTERY
406088914	KS23619, L4	407436484	KS23619, L14	407435819	KS23619, L24	-	SPACER MODULE, 3 CELL
406426411	KS23619, L6			407435841	KS23619, L26	2VR250E	2 VOLT, 250 AH VR SERIES BATTERY
406682068	KS23616, L7			407435858	KS23616, L27	4VR125EL	4 VOLT, 125 AH VR SERIES BATTERY
406534490	KS23619, L8			407435853	KS23619, L28	-	SPACER MODULE, 2 CELL
106523194	SELECT CODE 157-622-010	107817074	SELECT CODE 157-622-011	107817074	157-622-011		VR SERIES BATTERY PRODUCT MANUAL

TABLE DLT - OBSOLETE MATERIAL

ITEM	FORMER		ISSUE REMOVED
	LISTS	QTY PER LIST	
3	43	1	19
10	24	1	16
31	20	1	16
12	21	1	16
13	22	1	16
14	23	1	16
15	41, 43	1	19
15	42, 44	2	19
17	51, 52, 53, 54	1	19
17	103	1	19
23	109	1	14
24	1, 2, 3, 6, 31	1	19, 1
24	32, 51, 52, 53	1	18, 1
24	54, 61, 62, 65	1	18, 1
24	71, 72, 101, 102	1	18, 1
25	1, 2, 31	1	5
25	32, 71, 72	1	5
28	62	1	6
30	1, 2, 31	1	5
32	4	1	16
40	5	1	16
41	7	1	15
42	8	1	16
43	9	1	16
46	31, 32, 53, 54	4	15
46	1, 2, 3, 6	6	15
46	51, 52, 51, 62	6	15
46	55, 71, 72	6	15
46	109, 111	6	15
47	31, 32, 53, 54	4	15
48	1, 2, 3, 6	1	15
48	51, 52, 71, 72	1	15
48	109, 111	1	15
53	1, 2, 31	3	5
53	32, 71, 72	3	15
54	1, 2, 3, 6, 31, 32	1	19
54	51, 52, 53, 54, 61	1	19
54	52, 71, 72, 103	1	19
55	1, 2, 3, 6, 31, 32	1	19
55	61, 62, 71, 72	1	19
56	1, 2, 3, 6, 31, 32	1	19
56	61, 62, 71, 72	1	19
57	1, 2, 3, 6, 31, 32	1	19
57	51, 52, 53, 54, 61	1	19
57	62, 71, 72, 103	1	19
58	1, 2, 31	1	5
58	32, 71, 72	1	5
65	1, 2, 31	4	5
65	32, 71, 72	4	5
67	43	1	20
75	K2, 102	1	20
83	1, 2, 3, 6, 31	1	16

TABLE PP - LIST 102 E/W AVAILABLE COMBINATIONS

LIST COMBINATION	COMCODE
L102 E/W 103, 104, 105, 109	601415391
L102 E/W 103, 104, 107, 109	601415409
L102 E/W (2)L103, 104, 106, 109	601415417
L102 E/W (2)L103, 104, 107, 109	601415425
L102 E/W (2)L103, 105, 106, 109	601415433
L102 E/W (2)L103, 105, 107, 109	601415441
L102 E/W 103, 105, 107, 111	601423007
L102 E/W 103, 105, 107, 109	601423049
L102 E/W (2)L103, 105, 107, 111	601430617

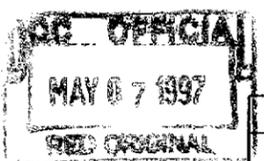


TABLE R: CONTROLLER FACTORY SETTINGS (FOR -54.0 V FLOAT) (SEE NOTES 7, 53, 55)

JUMPER SETTINGS			
HEADER	JUMPER PINS	FUNCTION	FUNCTION
P002.1	2 & 3	4B VOLTS	P105 1 & 2 RESTART
P002.2	2 & 3	4B VOLTS	P106 1 & 2 FLOAT
P002.3	2 & 3	4B VOLTS	P107 1 & 2 FOR JB55000-1 RECTIFIER SHELF
P002.4	2 & 3	4B VOLTS	P108 1 & 2 FOR JB55000-1 RECTIFIER SHELF

SWITCH SETTINGS (CP1)			
SWITCH	FUNCTION	SWITCH POSITION	SWITCH POSITION
SW101	HV/ED LEVEL (-57 VOLTS)	1	1 0 0 1 0
SW102	HV/FL LEVEL (-55 VOLTS)	1	1 0 0 1 0
SW103	BO LEVEL (-53 VOLTS)	1	1 0 0 1 0
SW109	METER SHUNT (500 AMPS)	0	0 1 0 0 0/1

TABLE S: LOW VOLTAGE DISCONNECT SETTINGS (BAD/50M CXT PAK-CPS) (SEE NOTES 8, 54)

HEADER	JUMPER PINS	FUNCTION
PS05.1, PS05.2	1 & 2	-42.5 VOLTS
PS05.1, PS05.2	2 & 3	-40.5 VOLTS

TABLE T - RECOMMENDED SPARE PARTS (SEE NOTE 63)

ORDERING CODE	DESCRIPTION	REFERENCE
106673502	SR507-48V SERIES 2 POWER UNIT	A-PU/364A2
846882181	KIT, MICROPROCESSOR BOARD	CP2
846882199	KIT, MICROPROCESSOR BOARD W/SPEECH SYNTHESIS	CP3
846575223	KIT, DATA LOGGER BOARD	CP3
846632982	KIT, DATA LOGGER BOARD W/TERMINATION PANEL	CP3
405746339	10A CIRCUIT BREAKER KIT (KS-23616 L20)	
405746354	20A CIRCUIT BREAKER KIT (KS-23616 L24)	
405746362	30A CIRCUIT BREAKER KIT (KS-23616 L26)	
405746370	40A CIRCUIT BREAKER KIT (KS-23616 L28)	
405746388	50A CIRCUIT BREAKER KIT (KS-23616 L29)	
405746393	60A CIRCUIT BREAKER KIT (KS-23616 L27)	
405746321	75A CIRCUIT BREAKER KIT (KS-23616 L21)	
405746347	15A CIRCUIT BREAKER KIT (KS-23616 L23)	
JB55000-2 LIST K33	KIT, PROVIDES AC INPUT CABLE FOR RSA	(SEE NOTE B1)
106673745	113A2 CONTROL UNIT	CP1
1066630182	CP-BAD1 LVD/FUSE BOARD	CP5
846882982	DC FAN KIT (KS-22501 L15)	
405291429	REPLACEMENT BATTERY FOR CP2 (DR-1/3M)	BT201
406282079	REPLACEMENT BATTERY FOR CP2 (CR-1/3M)	BP2032
405673146	1 1/2 A FUSE (MP90247 L7)	F501 - F511
405181983	2 A FUSE (MP90247 L9)	F512
106663240	CP-BD1 LVD/FUSE/BOARD	F912

TABLE U: BATTERY CABLE KIT ORDERING INFORMATION (SEE NOTES 62, 21)

STRING	ECS PLANTS EQUIPPED WITH
POSITION 1	LISTS 1, 31, 51, 53, 61
POSITION 2	LISTS 2, 32, 52, 54, 62
POSITION 3	LIST K32 (SEE NOTE 80)
POSITION 4	LIST K32 (SEE NOTE 80)
POSITION 5	LIST K31
POSITION 6	LIST K31
POSITION 7	LIST K31

STRING	ECS PLANTS EQUIPPED WITH
POSITION 1	LISTS 1, 31, 51, 53, 61
POSITION 2	LISTS 2, 32, 52, 54, 62
POSITION 3	LIST K32 (SEE NOTE 80)
POSITION 4	LIST K32 (SEE NOTE 80)
POSITION 5	LIST K31
POSITION 6	LIST K31
POSITION 7	LIST K31

TABLE V: TIGHTENING TORQUES (SEE NOTE 9)

COMPONENT	HARDWARE	TORQUE (IN-LBS.)
LVD/R CONTACTOR	5/16 NUT	120
SHUNT	5/16 NUT	120
DISCHARGE RETURN	B-32 SCREW	11
FRAME ASSEMBLY	5/16-18 SCREW	120
LOAD LEADS	6-32 SCREW	5.5
BATTERY AND BATTERY RETURN	3/8 NUT	240
CABLE CONNECTIONS BETWEEN RECT. SHELF AND DISTRIBUTION	5/16 NUT	120
BATTERY POSTS	1/4 NUT	60
BATTERY TERMINAL PLATE ASSEMBLY	1/4 NUT	60
FLOOR ANCHORS	5/16 NUT	120
	1/2 NUT	80 (FT-LBS)

TABLE W: LOAD WIRE GAUGE AND LUG INFORMATION (SEE NOTES 17, 65)

OCT. BREAKER CAPACITY (AMPS)	WIRE GAUGE	WIRE TYPE	LUG (TO LOAD)	NOTE	LUG (LOAD RETURN)
3, 5, 10	14		T8B	CONCODE	T8B
3, 5, 10, 15, 20	12		T8B	CONCODE	T8B
3, 5, 10, 15, 20, 30	10		T8B	CONCODE	T8B
3, 5, 10, 15, 20, 30	8	KS-24194, L1	T8B	CONCODE	T8B
10, 15, 20, 30, 45, 60	6		T8B	CONCODE	T8B
	4		T8B	CONCODE	T8B
	2	KS-24194, L2	T8B	CONCODE	T8B

TABLE Y: BATTERY CABLE AND LUG INFORMATION (SEE NOTES 21, 62)

WIRE GAUGE	TYPE	T8B PART NO.	CONCODE	DIC COLOR	CONPRESSION TOOLS
1/0	KS20921	MP91412L57	405348236	BLACK	T8WB DIE NO. 13462, T8MS DIE NO. 13474, T8MB DIE NO. 13473, T8MB DIE NO. 13476
4/0	KS20921	MP91412L27	405347923	YELLOW	T8WB DIE NO. 13463, T8MS DIE NO. 13474, T8MB DIE NO. 13473, T8MB DIE NO. 13476

TABLE Z: BATTERY MANAGEMENT SYSTEM ORDERING INFORMATION (NOTES 83-86, 89)

ORDERING CODE	DESCRIPTION
ED83241-30 GROUP K1	RETROFIT KIT FOR AN EXISTING PLANT WITH ONE STRING OF AT6T VR BATTERIES
ED83241-30 GROUP K2	CABLE KIT FOR ONE ADDITIONAL AT6T VR BATTERY STRING
ED83241-30 GROUP K3	CABLE KIT FOR ONE TEN FOOT EXTENSION
ED83241-30 GROUP K4	CABLE KIT FOR CONNECTION TO CPS

TABLE ZA: BATTERY MANAGEMENT SYSTEM SW100 SETTINGS (I=INITIAL)

I1 SETPOINT				I2, I3 SETPOINT			
C, F	1	2	3	C, F	1	2	3
20, 68	1	1	40, 104	1	1	1	1
26, 77 (I)	1	0	45, 113	1	0	0	0
30, 96	0	1	50, 122 (I)	0	1	0	1
33, 95	0	0	55, 131	0	0	0	0

TABLE ZB: BATTERY MANAGEMENT SYSTEM SW101 SETTINGS (I=INITIAL)

MNT SETPOINT				23, 24 CELL SELECT				F, C SELECT			
C, F	1	2	3	1	2	3	4	1	2	3	4
33, 96	1	1	1	0	1	0	1	0	1	0	1
35, 99 (I)	1	0	23 CELL	24 CELL	(I)	C	F	(I)	C	F	(I)
40, 104	0	1	0	0	0	0	0	0	0	0	0
45, 113	0	0	0	0	0	0	0	0	0	0	0

TABLE ZC: BATTERY MANAGEMENT SYSTEM SW102 SETTINGS (I=INITIAL)

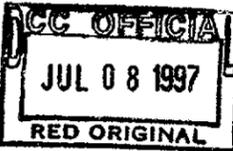
CURRENT LIMIT SETPOINT				CURRENT LIMIT			
AMPS	1	2	3	1	2	3	4
12.5	1	1	1	1	1	1	0
25	1	1	0	ENABLED	DISABLED	(I)	
37.5 (I)	1	0	1				
50	1	0	0				
62.5	0	1	1				
75	0	1	0				
87.5	0	0	1				
100	0	0	0				

TABLE ZD: ORDERING INFORMATION (SEE NOTE 86)

CONCODE	DESCRIPTION	UPGRADES FOR PAK VERSION
847074507	48V PAK KIT	
847074516	24V PAK KIT	
847074531	DIGITAL SERVICE UNIT KIT	
847074549	SHELF KIT (GA 3-93)	
847101565	ECS CP2 SOFTWARE UPGRADE KIT	MC80041A1B-A4B 11:1 OR LATER

TABLE ZE: CP2 DIP SWITCH SETTINGS (0 = OPEN, 1 = CLOSED)

SW202	FUNCTION	OPTION	SWITCH SETTING
-1	REMOTE	ENABLED	0
		DISABLED	1
-2			-2 -3 -4
-3	SHUNT		
-4	SIZE	300A	1 0 1
-5		RESERVED	
-6	MAXIMUM NUMBER OF RECTIFIERS	6 RECTIFIERS	1
-7	NOMINAL BATTERY PLANT VOLTAGE	-48 VOLTS	0
-8	LOCAL PORT	TERMINAL	0
		PRINTER	1



CHANGED: FOR SH42 MFR NT C/C 847731783 REPLACED C/C'S 846448595 & 846686128, C/C 847731809 REPLACE C/C'S 846314136 & 846448603

SH A2 T8B W AMP #35149 WAS CAB1 LUG & WIRE TYP WAS KS82 L28F1 & KS-20921. T8B 6 IT A1 WAS C01105673502

ADDED MFR NT 37. SHC1 SECT 0-D CHANGED TO AGREE W/NT 32. SHD1 ITEM 89 0TY REG WAS 5. ADDRESS FOR IT 273-277 "PREP 3".

IT 153 0TY REG WAS 52. DELETED IT 3, 17, 54, 55, 56, 57, 65, & 67. ADDED: IT 79, 279, 284, 288, & 289.

CHANGED: SW161, B2, F3 LOCATION FOR IT 69.

CAR00 #E03983 & #E03984 POI: 96ESD0477 CL: ME

INB 7-24-95 19

ADDED: TBL BC, IN NT 95 *REFER TO TBL BC FOR PREVIOUSLY ORDERED BATTERIES. IN SL IN 228 L102

CHANGED: COMPANY LOGO AND ENLARGED "AT6T" BATT CC'S ON ALL SPTS FOR BATT PER KS28319 L1-20 TO CCS PER L21-30 (SEE TBL BC)

IN SL ITEMS 10-14 DWG 10 RD #82904-1 L-71, 62, 62, 51 & 61 RESP, LIST 10 RD DL, 0TY RD, IN SL IMS 11-14 C05 RD 601341837, 601341852, 601341829 & 601341850 RESP. REINSTATED ITMS 66

REMOVED: IN 79.

POI: 97ESD00071 CL: ME

AJS RK 04-21-97 20

SH61, 68, C2, F3, F9 & F10, REPLC'D "AT6T" LOGO ON PANELS WITH NEW "LUCENT" LOGO. MOVED PRODUCT ID LABELS TO LH SIDE OF PANELS. SH61-ITMS 49 & 20 ADDED LISTS 74 & 72. RESPECTIVELY SH65-ITMS 61, SH66 & 89-ITMS 62 & SHF1 RN VIEW ADDED. (SEE NOTE 30). SH41, UPDATED SHEET INDEX.

POI: 97ESD0526 CL: ME

RLS KAL 05-09-97 21

SH CA: CHNG MOUNTING LOC FOR ITM 140 FROM 10TH HOLE TO 7TH HOLE.

POI: 97ESD05936 CL: ME

RLS KAL 07-03-97 22

SH A1: UPDATED SHEET INDEX, MANUF NOTE 19, LIST 4 F10, WAS HB.

SH A2: ADDED MANUF NOTE 35 & 36.

SH A3: UPDATED TABLE 3LT, PP SH 88: REPLACED C/O L-2806668 WITH C/C 847598265.

SH D1: DELETED ITEM 24. ADDED ITEM 31.

POI: 96ESD0114 CL: ME

JCZ 2-15-96 16.1

DA LISTS 4, 5 DA LISTS 7-24

ADDED: TBL B, TBL D.T., TBL ZE MANUF NT 34

ENG NT 95 CHANGED:

NT 55, SH1 B1 VIEW C REF NT 34 ADDED.

SHTS 86 AND 89 ITEM 191 WAS 801829540.

SHT F2 FIG X ADDED ITEM 45

DELETED ITEMS 45-48.

SHT F4 FIGS Y & Z ADDED

LOAD/RTN CONNECTIONS TBL T: CONCODES PROVIDED FOR POWER UNIT, CP2 & CP3

DELETED: TBL AE

S/L ITEMS 10, 11, 12, 13, 14 113, 114, 115, 116, 117, 122 123 AND 124

POI: 94ESD00245 CL: ME

GAS 03-31-94 16

ADDED LISTS 3, 6, 71, 72, K11, K12, 101-110.

ORDER CODE JB55000-2 REF WAS A-PU/364A.

ORDER CODE 106671746 113A2 WAS 106626784 113A.

TABLE W: LUG #846314136 405348171 WAS 675-84659 406145334.

ALL FIGURES REDRAWN TO REFLECT LATEST BATTERY STAND CONFIGURATION. ALL REFERENCES TO 113A CONTROLLER AND A-PU/364A CHANGED TO 113A2 AND 364A2.

TABLE A: LIST 5, 7 MC80041A1B AND 132 WERE A1 AND A3.

TABLE T: ORDER CODE 406582679 SPARE BATTERY REF BR2032 3, 6, 15A CKT BKR L 16, 17, 18)

DELETED: S/L ITEM 29, 161 AND 162. CHANGED: S/L CD, 27A WAS 31, 32, 63, 54, 62.

S/L CD, 28C WAS 646888238.

S/L CD, 32C WAS 106397433.

S/L CD, 32D WAS A-PU/364A.

S/L CD, 40C WAS 846575173.

S/L CD, 41C WAS 846575199.

S/L CD, 130C WAS 901067017.

S/L CD, 131C WAS 401061569.

NOTE 7 WAS "TABLE R AND AD" NOTE 69 MC80041A1B AND A38 WERE A1 AND A3.

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S/L CD, 28C WAS 646888238.

S/L CD, 32C WAS 106397433.

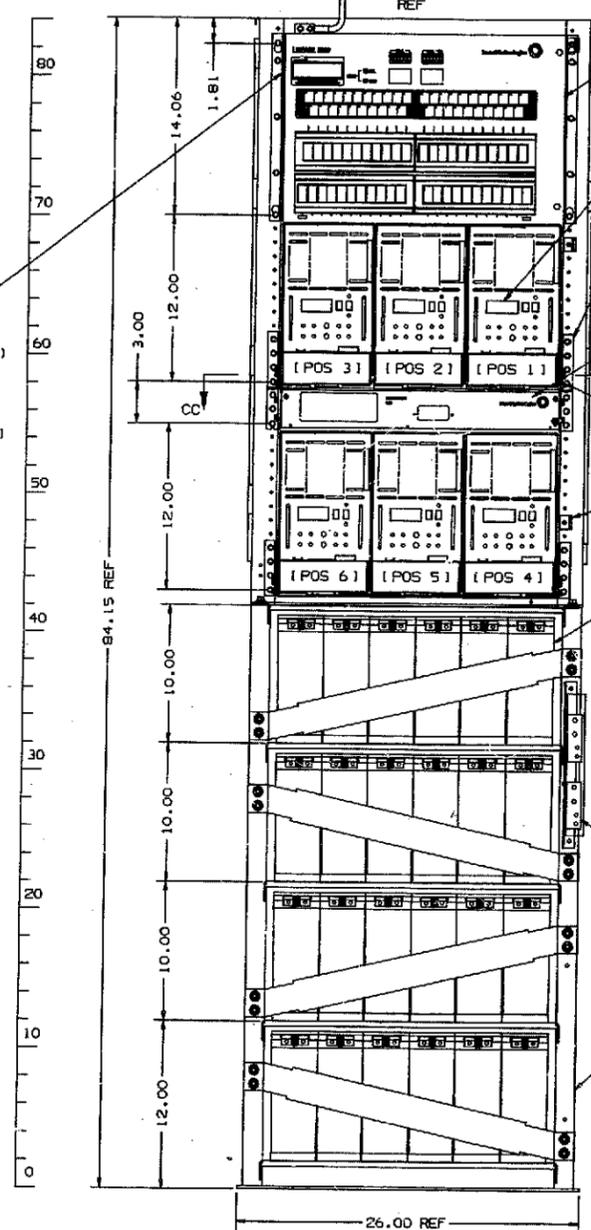
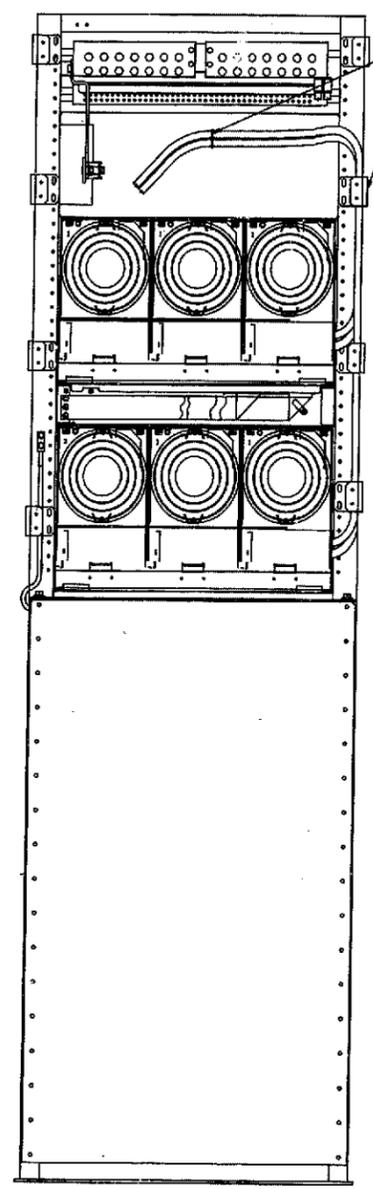
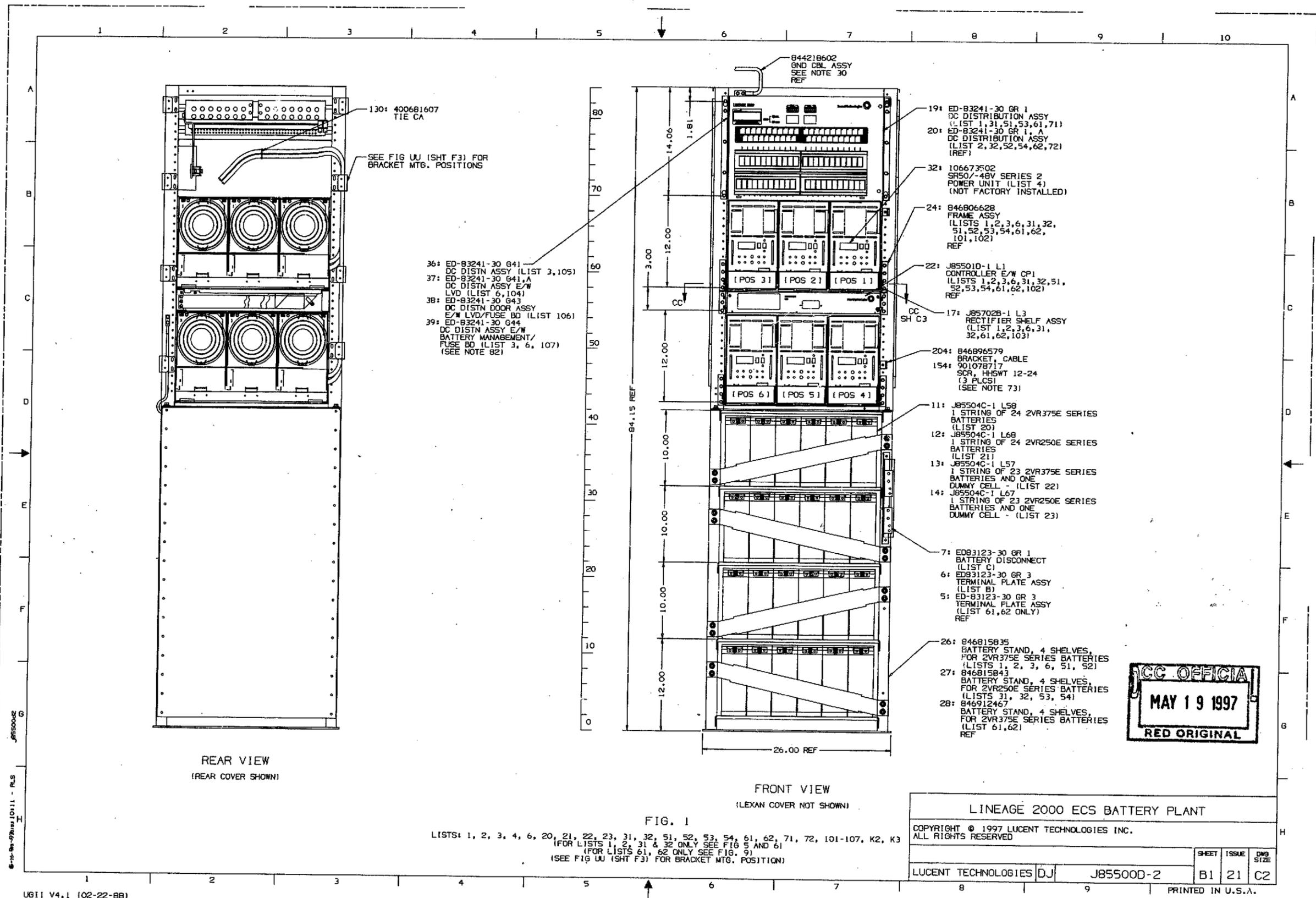
S/L CD, 32D WAS A-PU/364A.

S/L CD, 40C WAS 846575173.

S/L CD, 41C WAS 846575199.

S/L CD, 130C WAS 901067017.

S



- 130: 400681607 TIE CA
- SEE FIG UU (SHT F3) FOR BRACKET MTG. POSITIONS
- 36: ED-83241-30 G41 DC DISTN ASSY (LIST 3,105)
- 37: ED-83241-30 G41,A DC DISTN ASSY E/W LVD (LIST 6,104)
- 38: ED-83241-30 G43 DC DISTN DOOR ASSY E/W LVD/FUSE BD (LIST 106)
- 39: ED-83241-30 G44 DC DISTN ASSY E/W BATTERY MANAGEMENT/FUSE BD (LIST 3, 6, 107) (SEE NOTE 82)

- 844218602 GND CBL ASSY SEE NOTE 30 REF
- 19: ED-83241-30 GR 1 DC DISTRIBUTION ASSY (LIST 1,31,51,53,61,71)
- 20: ED-83241-30 GR 1, A DC DISTRIBUTION ASSY (LIST 2,32,52,54,62,72) (REF)
- 32: 106673502 SR50/-48V SERIES 2 POWER UNIT (LIST 4) (NOT FACTORY INSTALLED)
- 24: 846806628 FRAME ASSY (LISTS 1,2,3,6,31,32,51,52,53,54,61,62,101,102) REF
- 22: J855010-1 L1 CONTROLLER E/W CP1 (LISTS 1,2,3,6,31,32,51,52,53,54,61,62,102) REF
- 17: J857028-1 L3 RECTIFIER SHELF ASSY (LIST 1,2,3,6,31,32,61,62,103)
- 204: 846896579 BRACKET CABLE
- 154: 901078717 SCR, HSWT 12-24 (3 PLCS) (SEE NOTE 73)
- 11: J85504C-1 L58 1 STRING OF 24 2VR375E SERIES BATTERIES (LIST 20)
- 12: J85504C-1 L68 1 STRING OF 24 2VR250E SERIES BATTERIES (LIST 21)
- 13: J85504C-1 L57 1 STRING OF 23 2VR375E SERIES BATTERIES AND ONE DUMMY CELL - (LIST 22)
- 14: J85504C-1 L67 1 STRING OF 23 2VR250E SERIES BATTERIES AND ONE DUMMY CELL - (LIST 23)
- 7: ED83123-30 GR 1 BATTERY DISCONNECT (LIST C)
- 6: ED83123-30 GR 3 TERMINAL PLATE ASSY (LIST B)
- 5: ED-83123-30 GR 3 TERMINAL PLATE ASSY (LIST 61,62 ONLY) REF
- 26: 846815835 BATTERY STAND, 4 SHELVES, FOR 2VR375E SERIES BATTERIES (LISTS 1, 2, 3, 6, 51, 52)
- 27: 846815843 BATTERY STAND, 4 SHELVES, FOR 2VR250E SERIES BATTERIES (LISTS 31, 32, 53, 54)
- 28: 846912467 BATTERY STAND, 4 SHELVES, FOR 2VR375E SERIES BATTERIES (LIST 61,62) REF

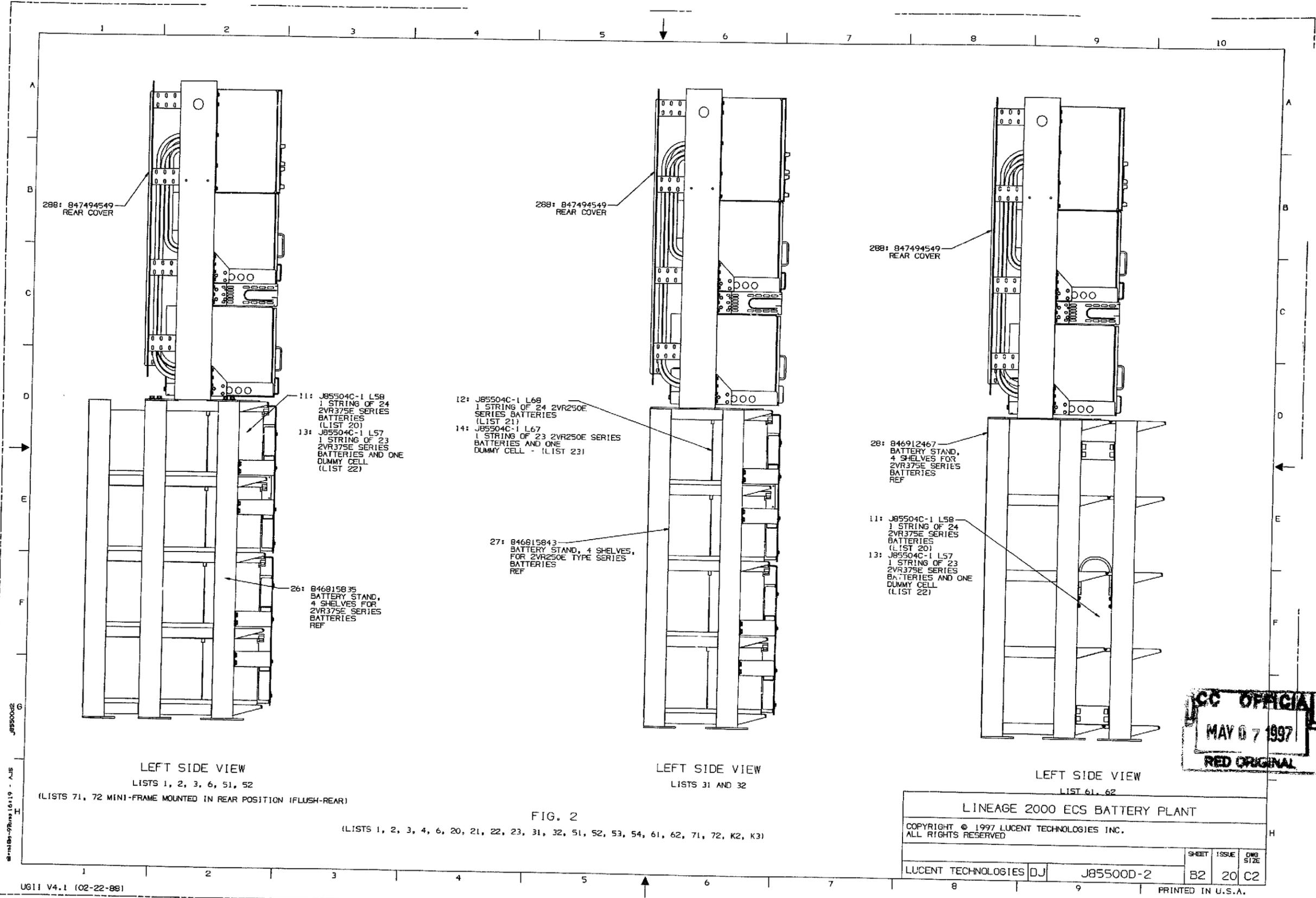
FIG. 1

LISTS: 1, 2, 3, 4, 6, 20, 21, 22, 23, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 101-107, K2, K3
 (FOR LISTS 1, 2, 31 & 32 ONLY SEE FIG 5 AND 6)
 (FOR LISTS 61, 62 ONLY SEE FIG. 9)
 (SEE FIG UU (SHT F3) FOR BRACKET MTG. POSITION)

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LUCENT TECHNOLOGIES	DJ	J85500D-2	B1 21 C2

J85500D-2



288: 847494549
REAR COVER

288: 847494549
REAR COVER

288: 847494549
REAR COVER

11: J85504C-1 L58
1 STRING OF 24
2VR375E SERIES
BATTERIES
(LIST 20)
13: J85504C-1 L57
1 STRING OF 23
2VR375E SERIES
BATTERIES AND ONE
DUMMY CELL
(LIST 22)

12: J85504C-1 L68
1 STRING OF 24 2VR250E
SERIES BATTERIES
(LIST 21)
14: J85504C-1 L67
1 STRING OF 23 2VR250E SERIES
BATTERIES AND ONE
DUMMY CELL - (LIST 23)

27: 846815843
BATTERY STAND, 4 SHELVES,
FOR 2VR250E TYPE SERIES
BATTERIES
REF

26: 846815835
BATTERY STAND,
4 SHELVES FOR
2VR375E SERIES
BATTERIES
REF

28: 846912467
BATTERY STAND,
4 SHELVES FOR
2VR375E SERIES
BATTERIES
REF

11: J85504C-1 L58
1 STRING OF 24
2VR375E SERIES
BATTERIES
(LIST 20)
13: J85504C-1 L57
1 STRING OF 23
2VR375E SERIES
BATTERIES AND ONE
DUMMY CELL
(LIST 22)

LEFT SIDE VIEW

LISTS 1, 2, 3, 6, 51, 52

(LISTS 71, 72 MINI-FRAME MOUNTED IN REAR POSITION (FLUSH-REAR))

LEFT SIDE VIEW

LISTS 31 AND 32

LEFT SIDE VIEW

LIST 61, 62

FIG. 2

(LISTS 1, 2, 3, 4, 6, 20, 21, 22, 23, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, K2, K3)

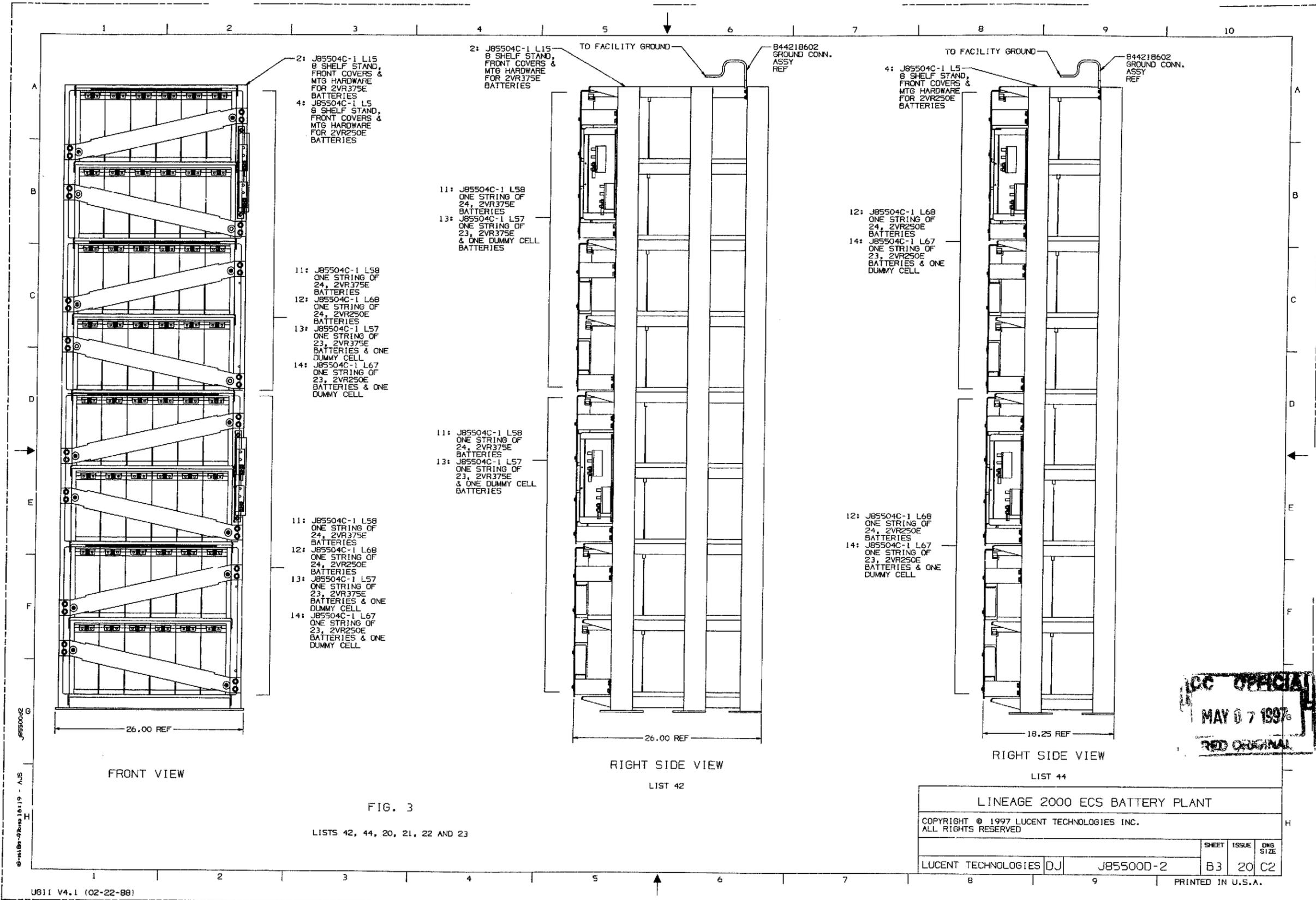
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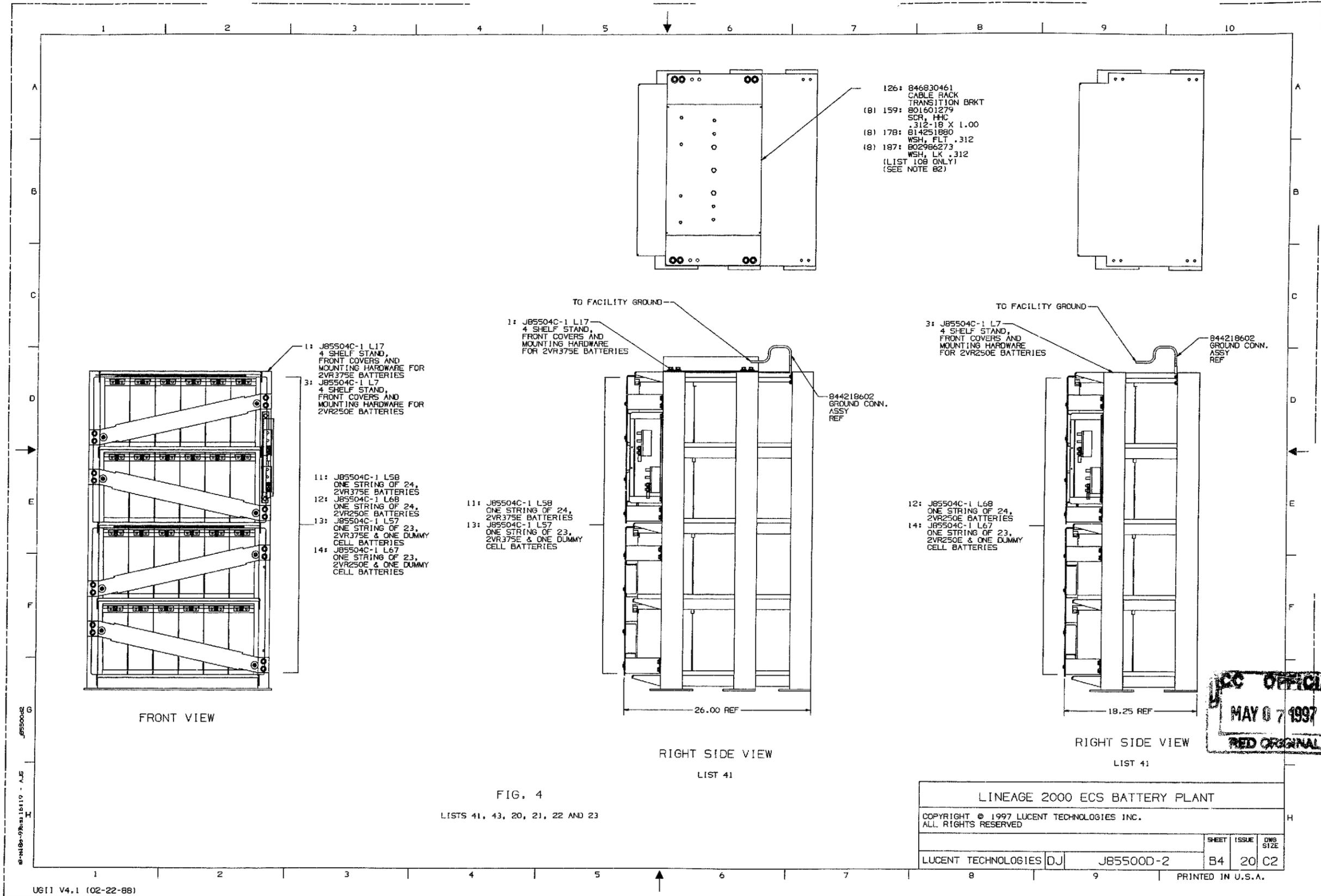
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SHEET	ISSUE	DWG SIZE
B2	20	C2

LUCENT TECHNOLOGIES DJ J85500D-2





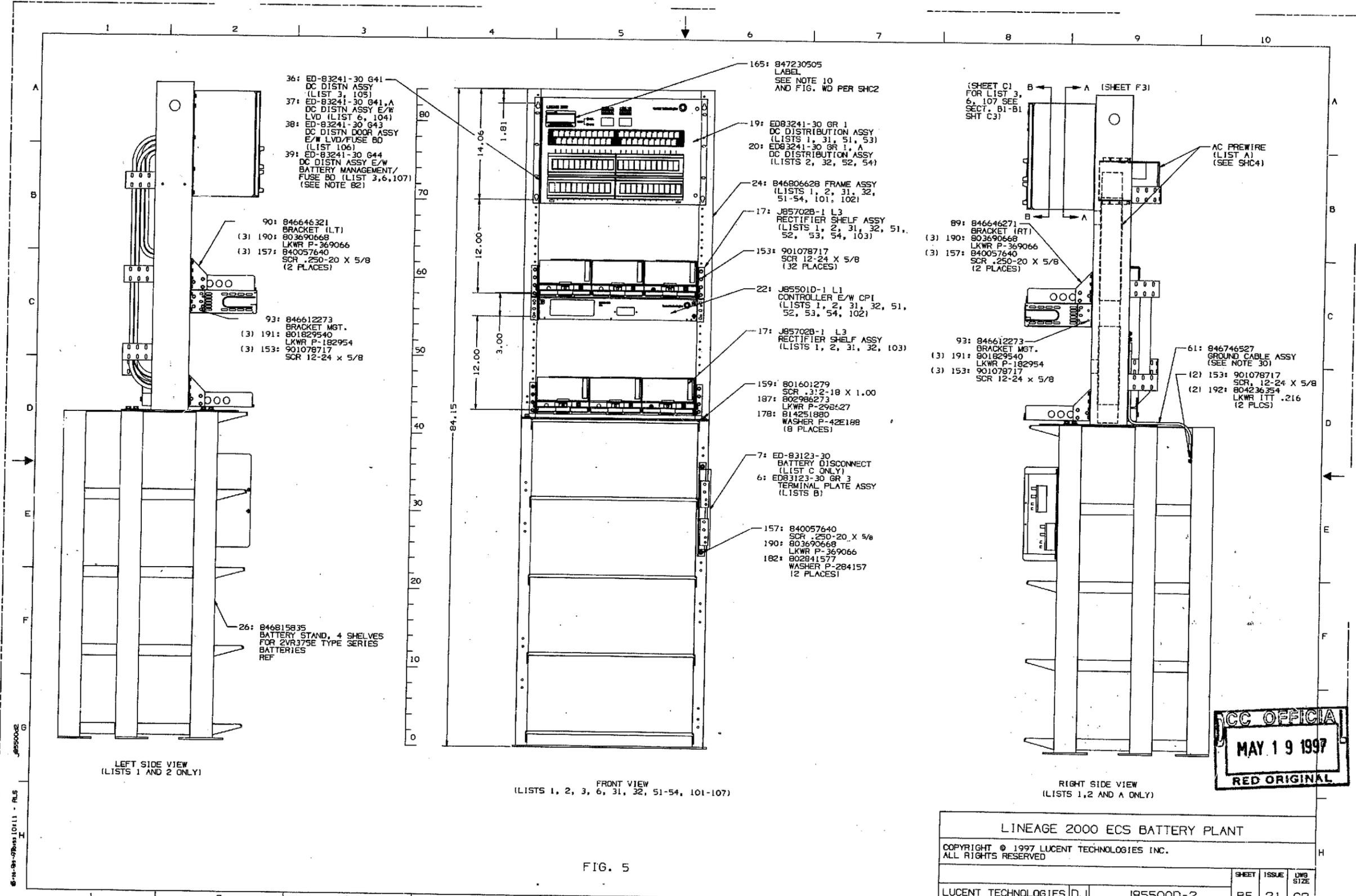
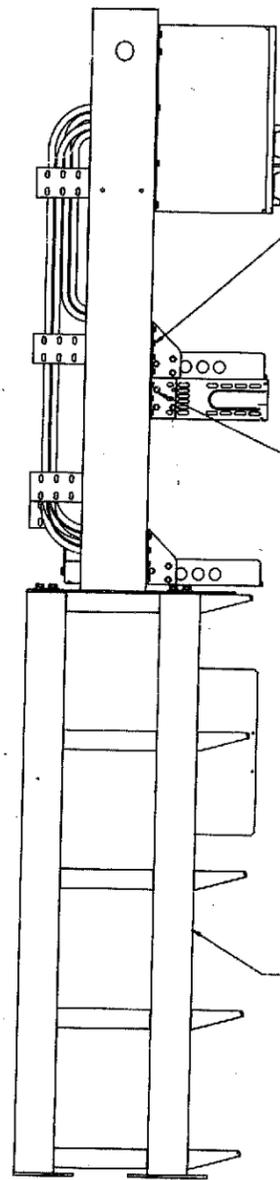


FIG. 5

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SHEET	ISSUE	DWG SIZE	
LUCENT TECHNOLOGIES	DJ	J85500D-2	B5 21 C2



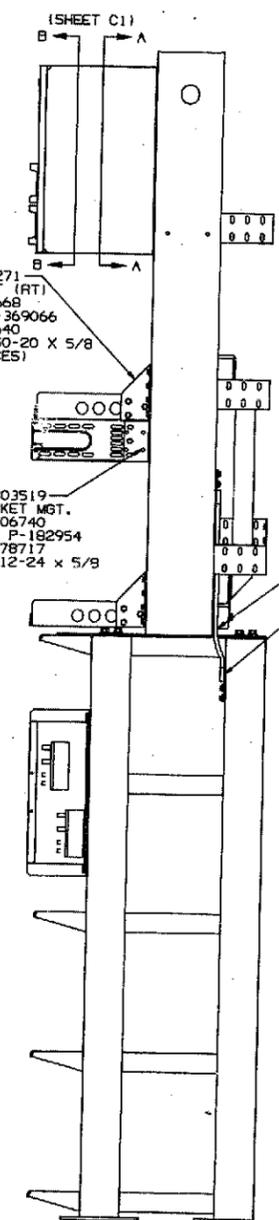
LEFT SIDE VIEW

- 90: 846646321 BRACKET (LT)
- (3) 190: 803690668 LKWR P-369066
- (3) 157: 840057640 SCR .250-20 X 5/8 (2 PLACES - LIST 1,2,31,32) (1 PLACE - LIST 51,52,53,54) SEE NOTE 76

- 93: 846612273 BRACKET MGT.
- (3) 191: 802160740 LKWR P-182954
- (3) 153: 901078717 SCR 12-24 X 5/8

- 27: 846815843 BATTERY STAND, 4 SHELVES, FOR 2VR250E TYPE SERIES BATTERIES (LIST 33 & 34) REF

FIG. 6
(LISTS 31,32,53,54 ONLY)

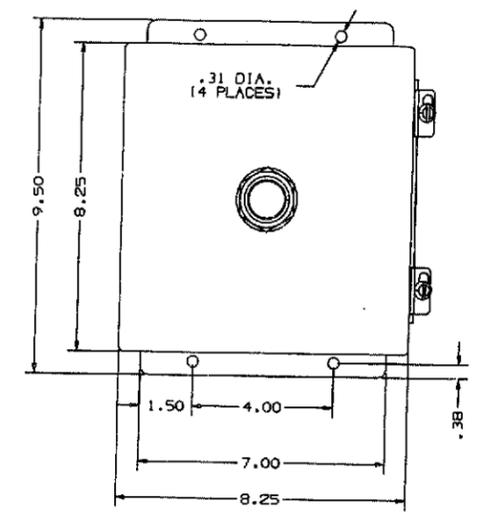


RIGHT SIDE VIEW

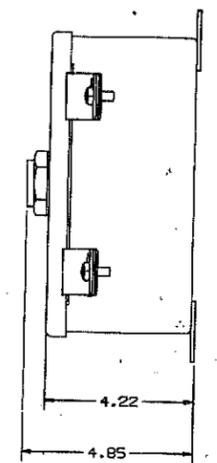
- 89: 846646271 BRACKET (RT)
- (3) 190: 803690668 LKWR P-369066
- (3) 157: 840057640 SCR .250-20 X 5/8 (2 PLACES)

- 92: 846303519 BRACKET MGT.
- (3) 191: 802160740 LKWR P-182954
- (3) 153: 901078717 SCR 12-24 X 5/8

- 62: 846746519 GROUND CABLE ASSY (SEE NOTE 30)
- (2) 153: 901078717 SCR, 12-24 X 5/8
- (2) 192: 804236354 LKWR ITT .216 (2 PLCS)



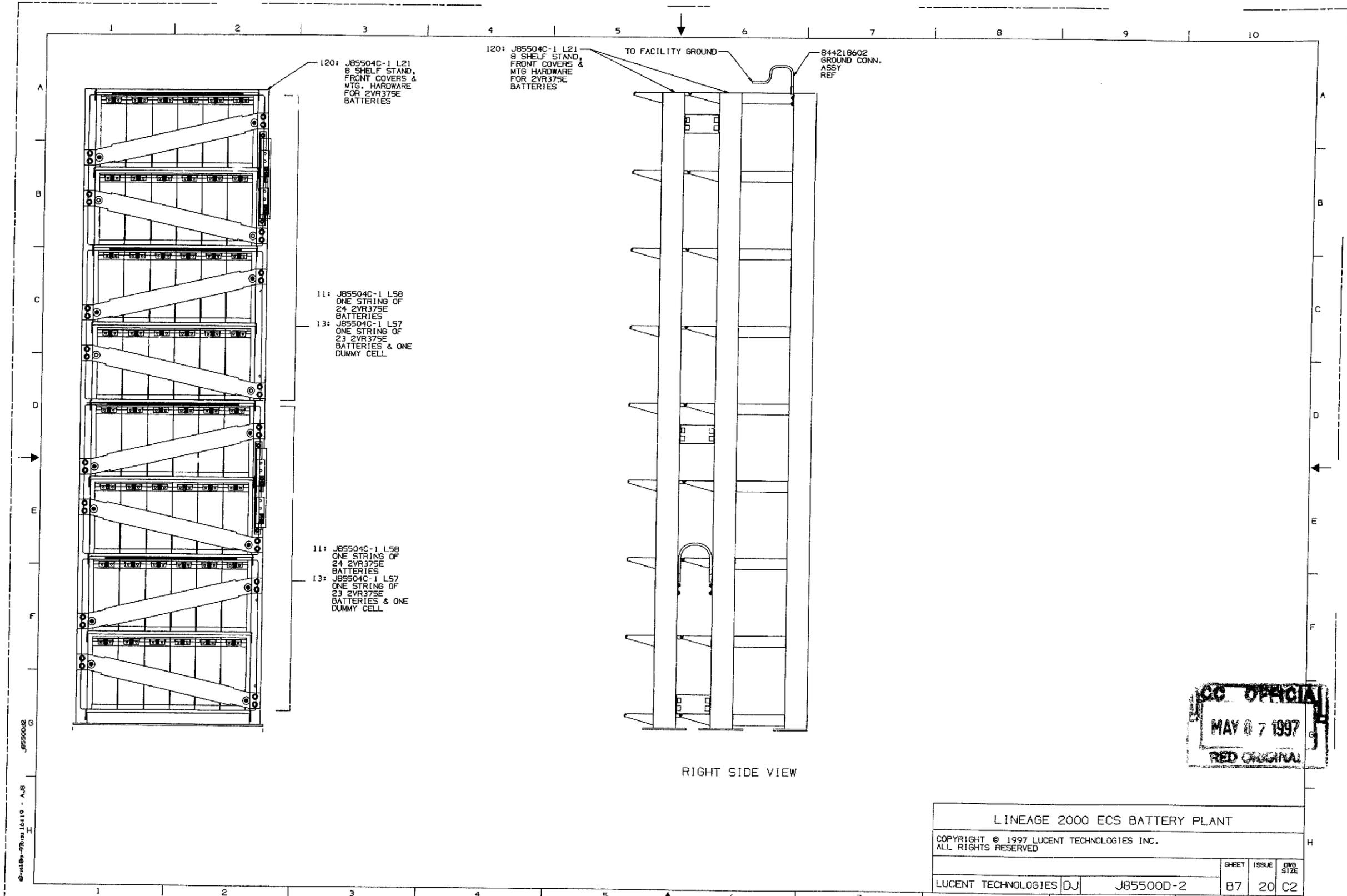
ED83123-30
EMERGENCY DISCONNECT BOX
TOP VIEW
LIST D
FIG. ZZ



ED83123-30 BR 10
EMERGENCY DISCONNECT BOX
RIGHT VIEW
LIST D
FIG. AB

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			ISSUE C2
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	SHEET	ISSUE	DRG SIZE
LUCENT TECHNOLOGIES DJ	J85500D-2	B7	20 C2

J85500D-2
 AJS
 02-22-88

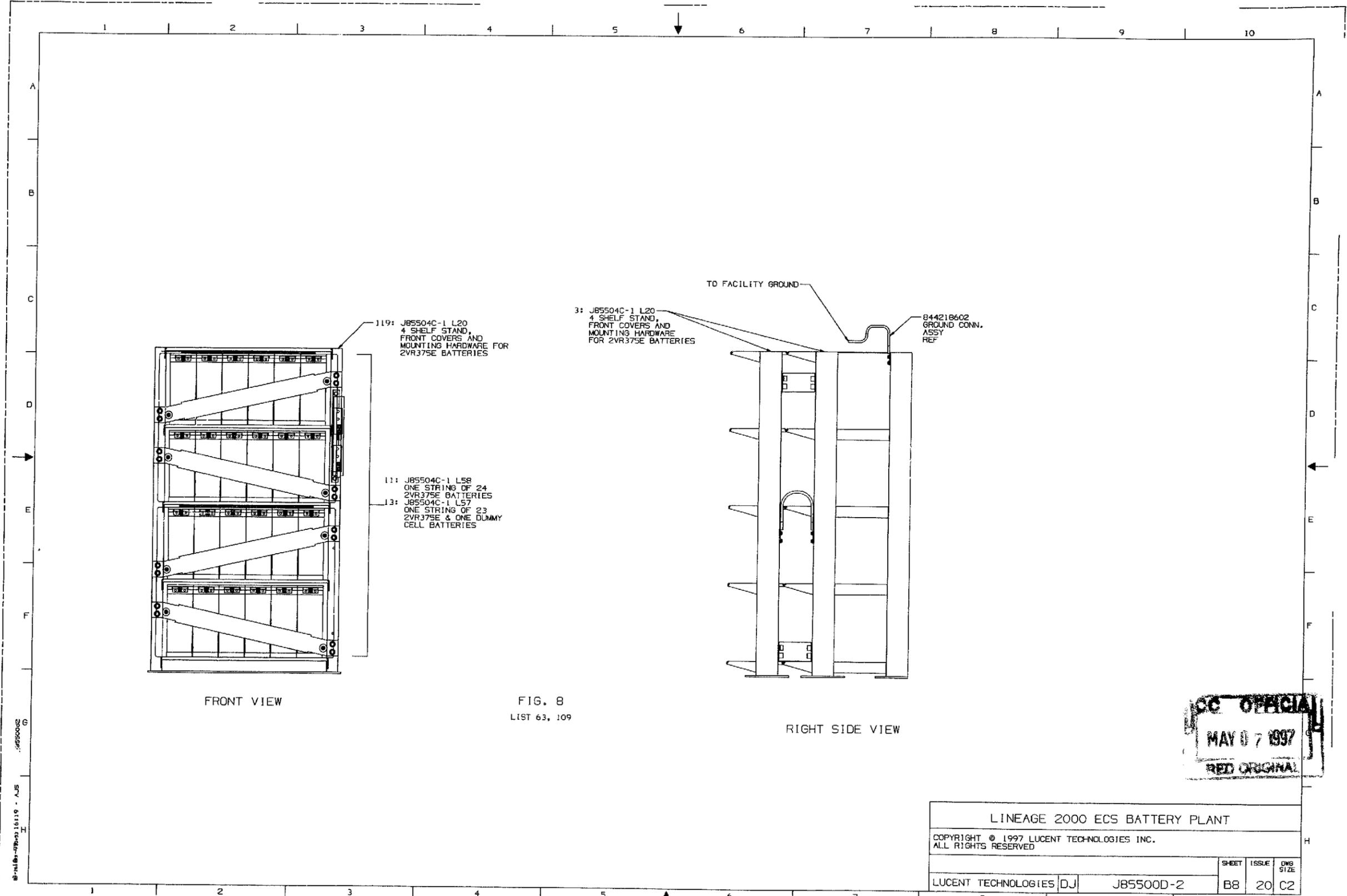
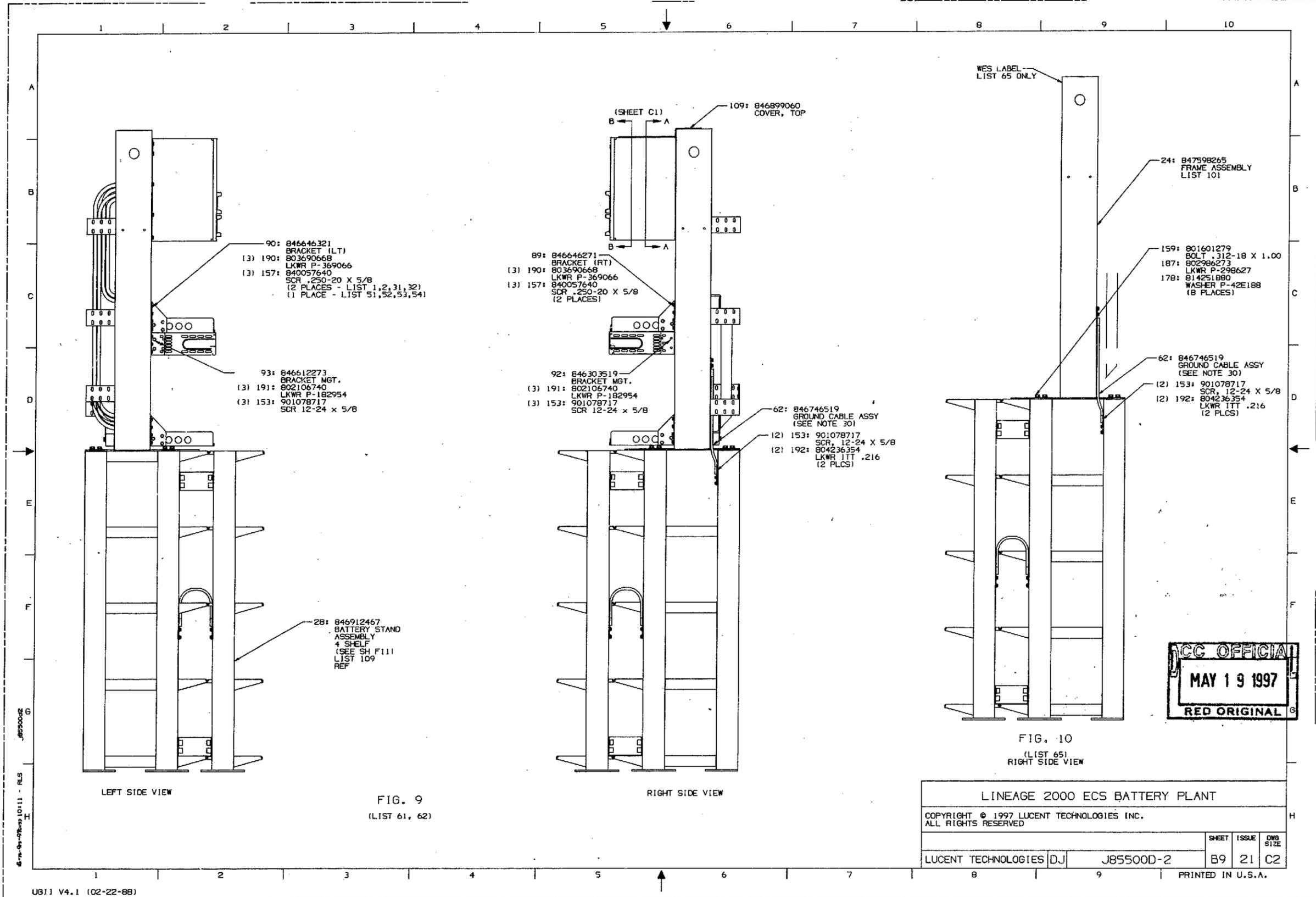


FIG. 8
LIST 63, 109

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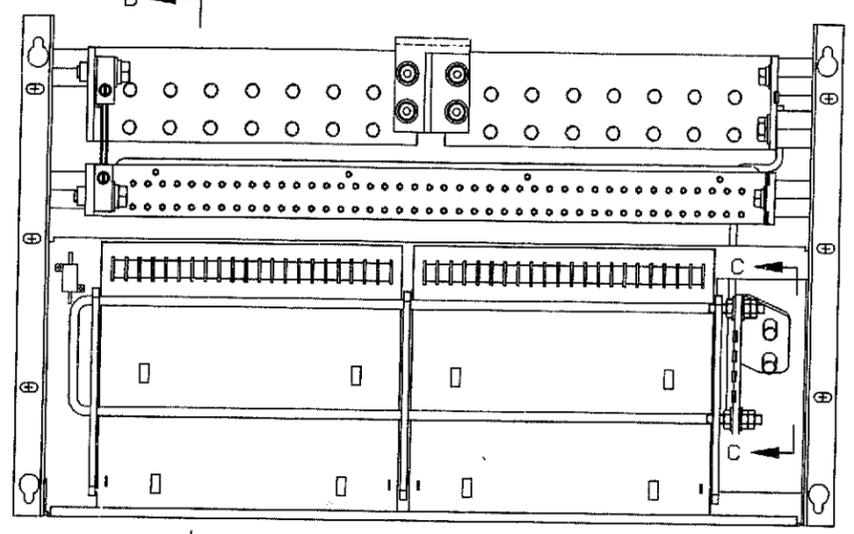
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SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES DJ	J85500D-2	B8 20 C2

J85500D-2
16110 - AJS

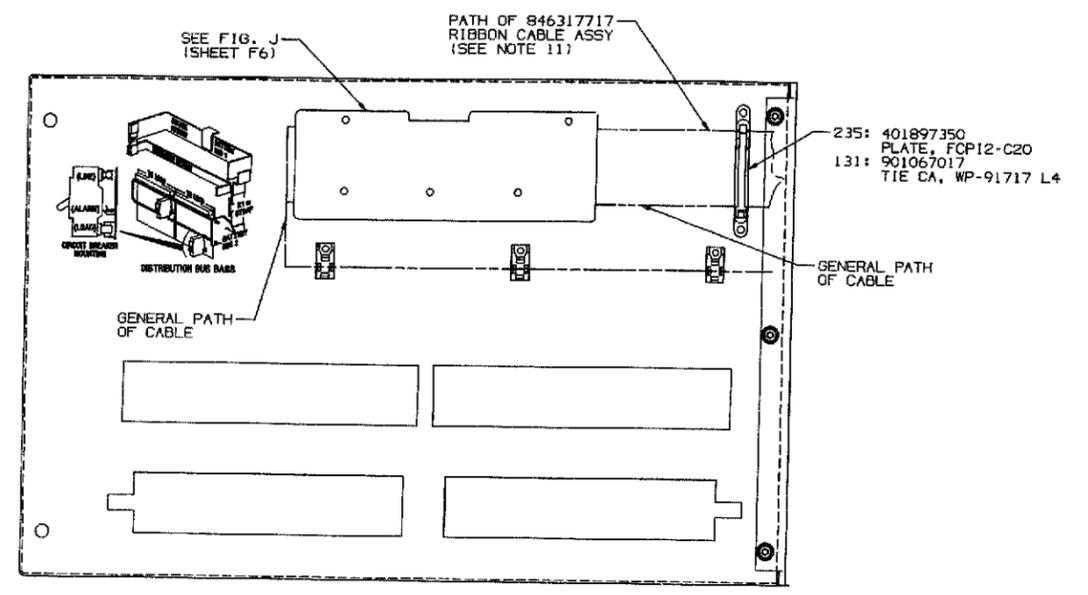


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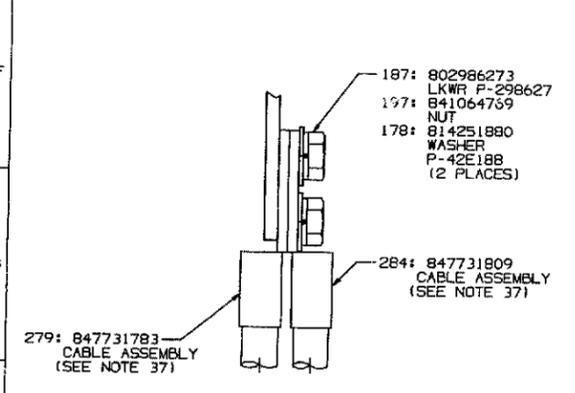
J85500D-2
10111 - RLS



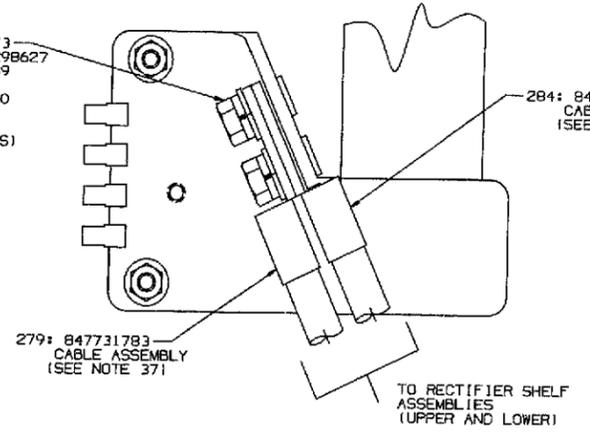
SECT. A-A
SCALE: 1/2
(FRONT VIEW OF DC DISTRIBUTION ASSEMBLY
WITH DOOR REMOVED)



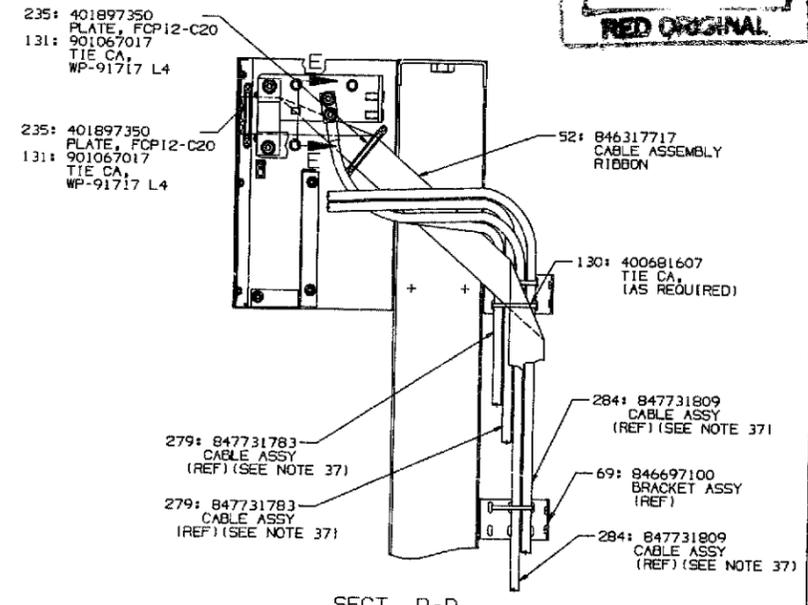
SECT. B-B
(REAR VIEW OF DC
DISTRIBUTION ASSEMBLY DOOR)
SCALE: 1/2



SECT. E-E
SCALE: 1/1



SECT. C-C
SCALE: 1/1



SECT. D-D
SCALE: 1/4

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LUCENT TECHNOLOGIES/DJ	J85500D-2	SHEET ISSUE DWG SIZE C1 20 C2
PRINTED IN U.S.A.		

J85500D-2-r15-9
 3-18-97 - 13118 - A.S
 UG11 V4.1 (02-22-88)

- 187: 802986273
LOCKWASHER
P-298627
- 197: 841064769
NUT
- 178: 814251880
WASHER
P-42E188
(4 PLACES)

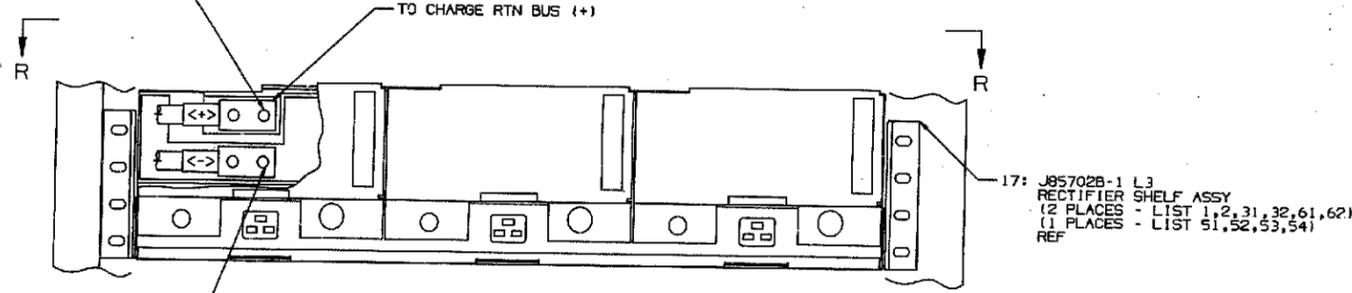
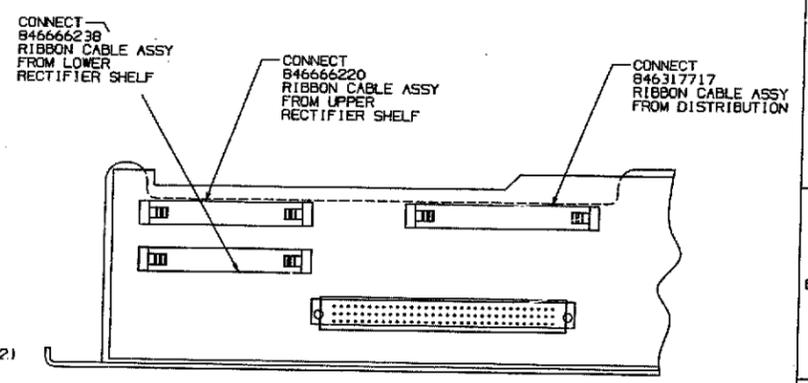
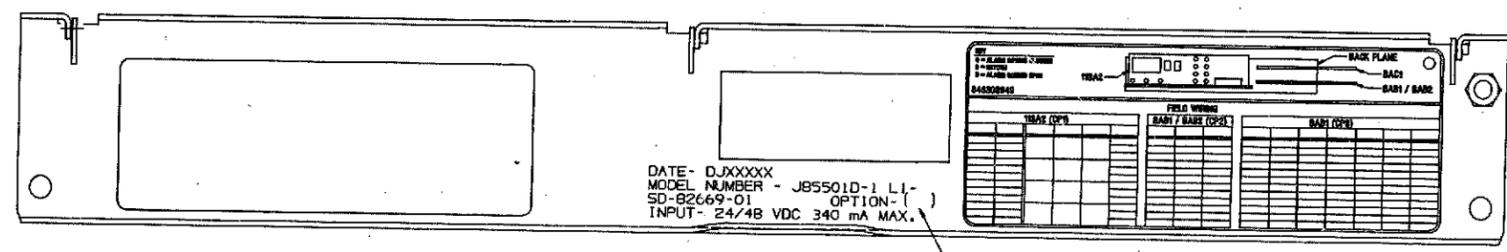


FIG. TT
SCALE: 1/2



SECT. F-F
SCALE: 1/2



SECT. H-H
(REAR VIEW OF CONTROLLER ASSEMBLY DOOR)
SCALE: 1/1

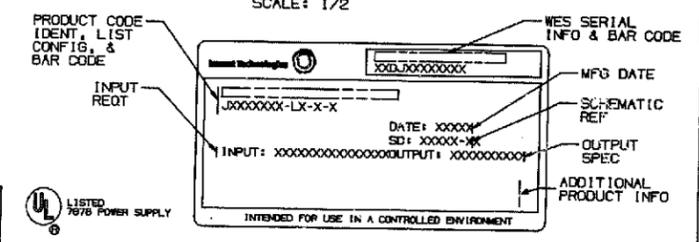
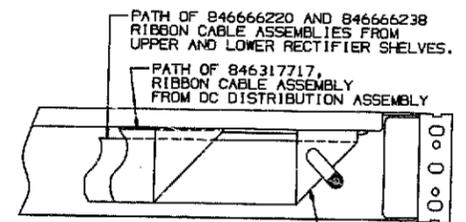
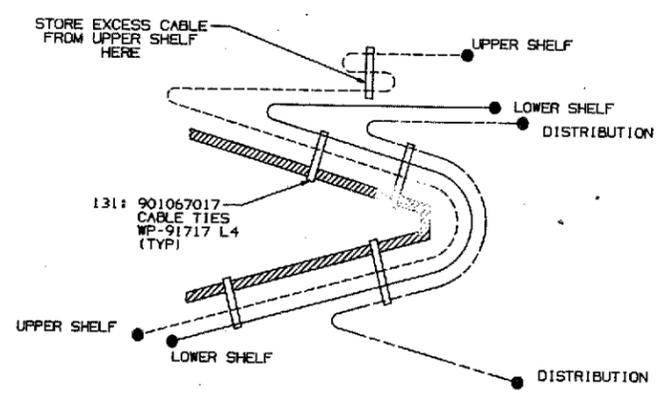


FIG. WD
PRODUCT IDENTIFICATION LABEL AND LIST CONFIGURATION TABLE (SEE FIG. 5 PER SHB5)

NOTE:
LABELS MUST BE PRINTED USING THE PROGRAM "PRINT-ESLAB" AND WITH THE EQUIPMENT SPECIFIED ON LABEL DRAWING 847230505. THE PRODUCT, LIST CONFIGURATION, SCHEMATIC REFERENCE, INPUT REQUIREMENTS, OUTPUT SPECIFICATIONS AND ADDITIONAL INFORMATION SHALL BE LOCATED APPROXIMATELY AS SHOWN.
WES SERIAL NUMBER AND THE MANUFACTURING DATE ARE UNDER PROGRAM CONTROL.
FORMAT MAY VARY, BASED ON PRINTER CAPABILITIES, HOWEVER, LABEL CONTENT SHALL BE AS SHOWN.



SECT. G-G
SCALE: 1/2



VIEW S-S
(REAR VIEW OF CONTROLLER CABLE FOLD)
SCALE: NONE

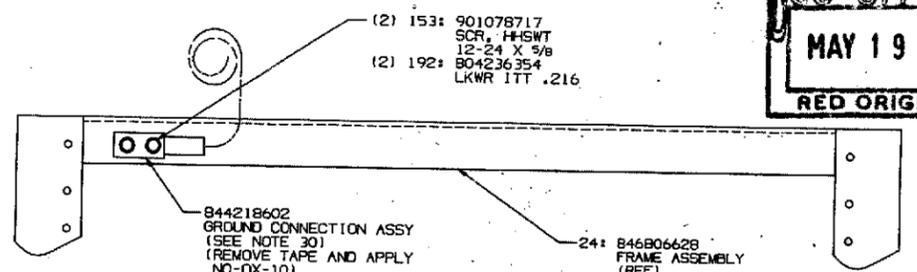
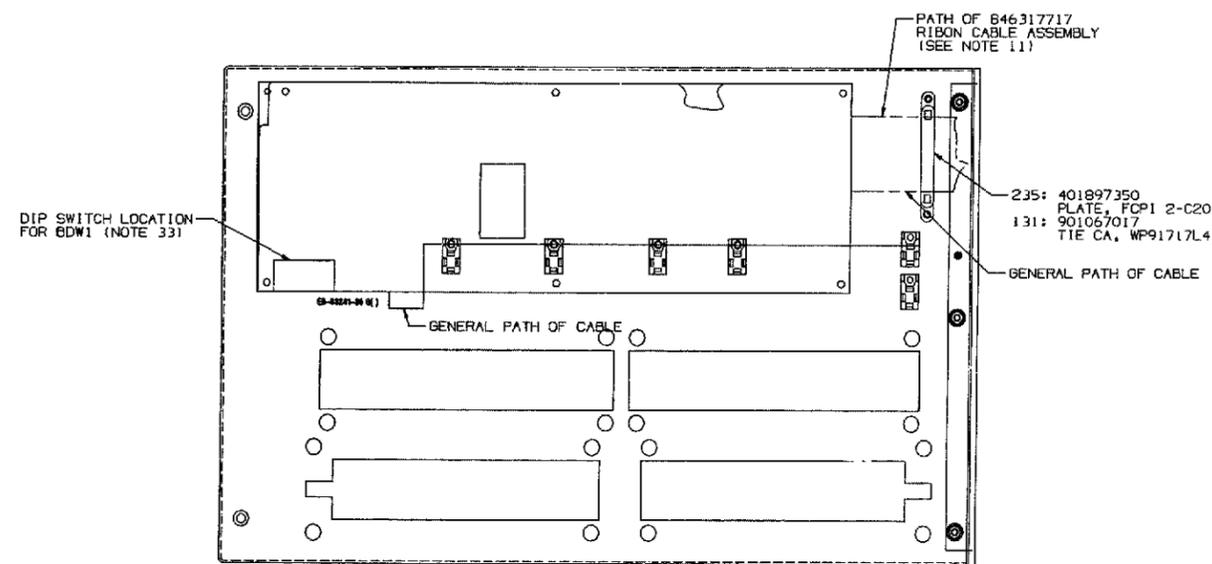


FIG. DD
(GROUND CONNECTION)

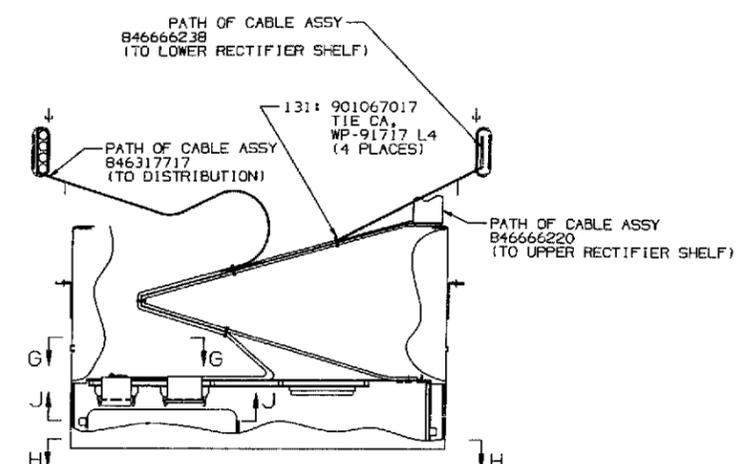
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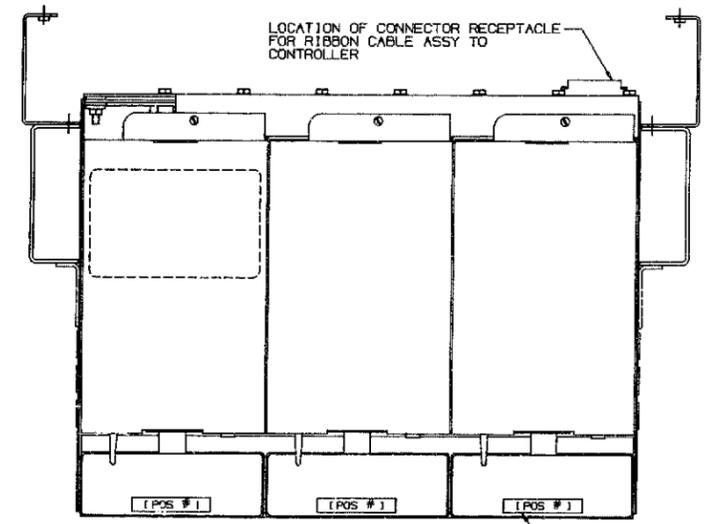
4-16-97 - 10108 - RLS J85500D-01-3-PS-8



SECT. B1-B1
(REAR VIEW OF DC DISTRIBUTION ASSEMBLY DOOR)



SECT. CC-CC
(TOP VIEW OF J85501D-1 L1)
(TRAY SHOWN IN OPEN POSITION)
(SEE FIG. AA, SHEET F7,
FOR FIELD WIRING AND FACTORY
AND FIELD DIP SWITCH SETTINGS)
SCALE: 1/4



SECT. R-R
SCALE: NONE

NOTE: RECTIFIER POSITIONS ARE
NUMBERED RIGHT TO LEFT
1 THRU 3 TOP SHELF
4 THRU 6 BOTTOM SHELF.

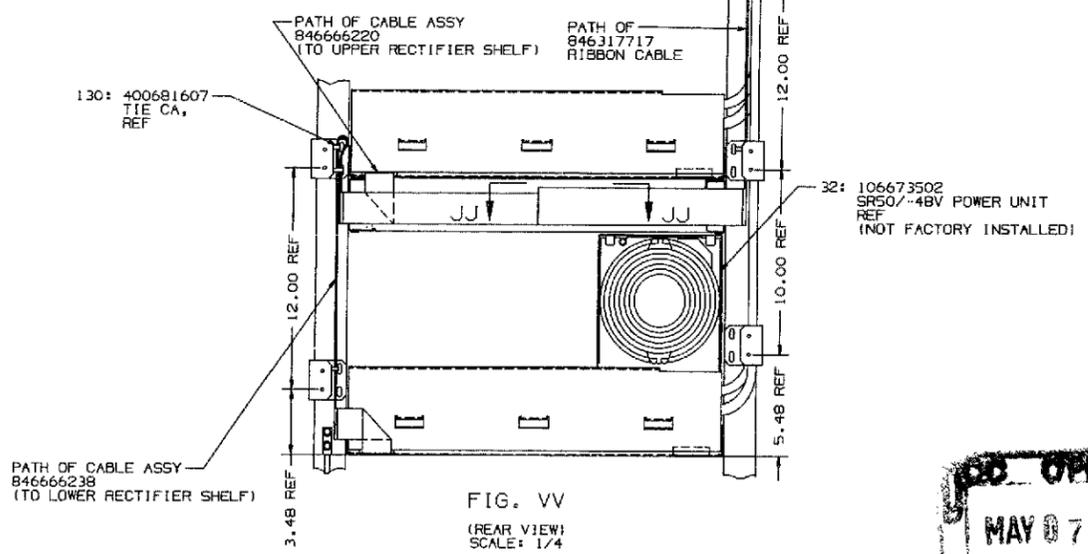


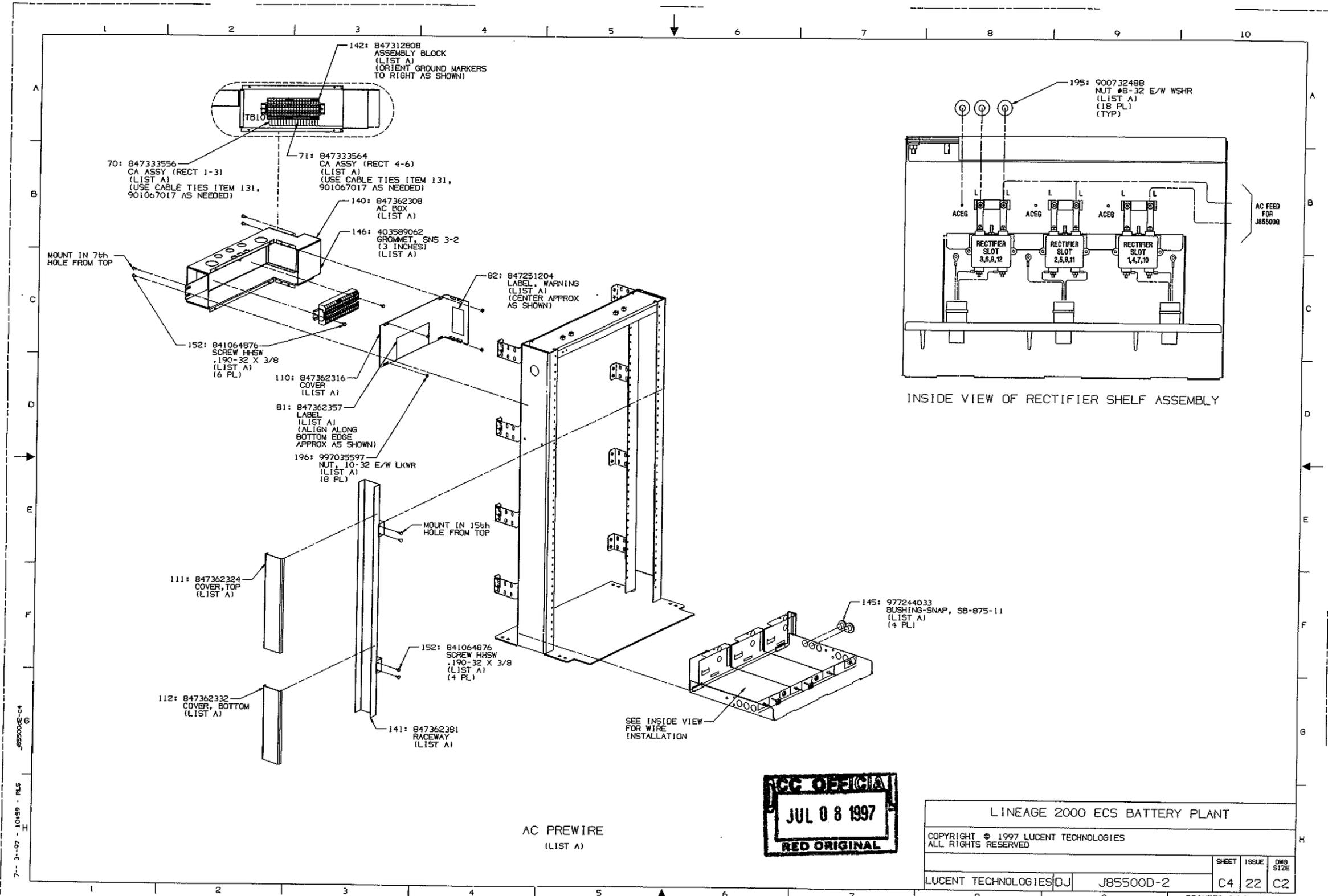
FIG. VV
(REAR VIEW)
SCALE: 1/4

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SHEET	ISSUE	OWG SIZE
C3	20	C2

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J85500D-075-8
3--18--97-13118-AUS



J85500G-04
 10189 - RLS
 3-07 - 10189 - RLS

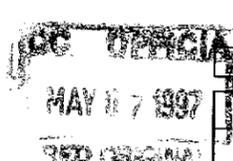
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LUCENT TECHNOLOGIES/DJ	J85500D-2	SHEET ISSUE DRG SIZE C4 22 C2

STOCKLIST							
ITEM	A	B	C	D	E	F	G H
LIST	QTY PER LIST	IDENTIFICATION NO.	CONCODE	DRAWING	DESCRIPTION	REFERENCE	NOTE
1 41	1	601341803	J85504C-1 L17		4 SHELF STAND, FRONT COVER & MOUNTING MATERIAL FOR 2VR375E TYPE BATTERY (SEISMIC AND NON-SEISMIC APPLICATIONS)		S
2 42	1	601341795	J85504C-1 L15		8 SHELF STAND, FRONT COVER & MOUNTING MATERIAL FOR 2VR375E TYPE BATTERY (NON-SEISMIC APPLICATION)		S
3 DLT		601341779	J85504C-1 L7		4 SHELF STAND, FRONT COVER & MOUNTING MATERIAL FOR 2VR250E TYPE BATTERY (SEISMIC AND NON-SEISMIC APPLICATIONS)		DLT 5
4 44	1	601341761	J85504C-1 L5		8 SHELF STAND, FRONT COVER & MOUNTING MATERIAL FOR 2VR250E TYPE BATTERY (NON-SEISMIC APPLICATION)		S
5 61, 62, 65	1	601372550	ED-83123-30 G3		TERMINAL PLATE ASSEMBLY		S
6 63, 6	1	601372550	ED-83123-30 G3		TERMINAL PLATE ASSEMBLY		S
7 64	2	601372550	ED-83123-30 G3		TERMINAL PLATE ASSEMBLY		S
8 / C	1	601371610	ED-83123-30 G1		ONE BATTERY STRING DISCONNECT SWITCH		S
9 0	1	601371628	ED-83123-30 G10		ONE REMOTE POWER OFF (RPO) SWITCH		S
10 24	1	601827298	J85504C-1 L73		ONE 12 CELL STRING 4VR125E BATTERIES		S 5
11 20	1	601827322	J85504C-1 L58		ONE 24 CELL STRING 2VR375E BATTERIES		S 5
12 21	1	601827280	J85504C-1 L68		ONE 24 CELL STRING 2VR250E BATTERIES		S 5
13 22	1	601827314	J85504C-1 L57		ONE 23 CELL STRING 2VR375E BATTERIES		S 5
14 23	1	601827272	J85504C-1 L67		ONE 23 CELL STRING 2VR250E BATTERIES		S 5
15 DLT		601340953	J85504C-1 L8		TERMINAL PLATE ASSEMBLY		DLT 5
17 DLT		601359502	J857029-1 L3		RECTIFIER SHELF ASSY		DLT 5
19 1, 31, 51, 53, 61, 71	1	601255292	ED-83241-30 G1		DC DISTRIBUTION ASSY		S
20 2, 32, 52, 54, 62, 72	1	601313315	ED-83241-30 G1, A		DC DISTRIBUTION ASSY E/W LVD		S
22 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	601255300	J85501D-1 L1		CONTROLLER E/W CP1		S
23 DLT		846830461			CABLE RACK BRACKET		DLT 5
24 DLT		846806628			FRAME ASSEMBLY		DLT 5
25 DLT		846715274			FRAME ASSEMBLY		DLT 5
26 1, 2, 3, 6, 51, 52, 71, 72	1	846815835			BATTERY STAND, 4 SHELF FOR 2VR375E TYPE BATTERY		S
27 31, 32, 53, 54, 111	1	846815843			BATTERY STAND, 4 SHELF FOR 2VR250E TYPE BATTERY		S
28 61, 62, 65, 109	1	846812467			BATTERY STAND, 4 SHELF 3 DEEP 2 PIECE		S
29 DLT		846888263			BRACKET FOR 1 DEEP STAND		DLT 5
30 DLT		846715268			TERMINAL PLATE ASSEMBLY		DLT 5, 20
31 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 65, 71, 72, 101, 102	1	847598265			FRAME ASSEMBLY		S
32 DLT		106673502	A-RU/35442		SP807-48V SERIES 2 POWER UNIT		DLT 5
34 K10	1	846616884			VOICE RESPONSE UPGRADE KIT		S
36 3, 105	1	601413941	ED-83241-30 G41		DC DISTRIBUTION ASSY		S
37 6, 104	1	601413958	ED-83241-30 G41, A		DC DISTRIBUTION ASSY E/W LVD		S
38 106	1	601413956	ED-83241-30 G43		DC DISTRIBUTION DOOR E/W LVD/FUSE		S
39 3, 6, 107	1	601413974	ED-83241-30 G44		DC DISTRIBUTION DOOR E/W BATTMAN/FUSE BD		S
40 DLT		846882181			MICROPROCESSOR BOARD (CP2) KIT		CP2 DLT 5
41 DLT		846882199			MICROPROCESSOR BOARD (CP2) KIT WITH VOICE RESPONSE FEATURE		CP2 DLT 5
42 DLT		846575223			DATALOGGER BOARD (CP3) KIT		CP3 DLT 5
43 DLT		846632982			DATALOGGER BOARD (CP3) KIT WITH REMOTE TERMINATION PANEL		CP3 DLT 5
45 65	4	841630155			HOLD DOWN WASHER		16
46 62	6	841630155			HOLD DOWN WASHER		15
47 DLT		841630155			HOLD DOWN WASHER		DLT 5, 16
48 DLT		406967794			002172161 FLOOR ANCHOR BOLT		DLT 5, 16
49 DLT		846748093			002172161 (NLT) HSLG M12/0 TN ANCHOR BOLT KIT (NLT) 5/PKG1)		DLT 5, 16
50 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103	1	846666220			BAT/BRD CABLE ASSY		S
51 1, 2, 3, 6, 31, 32, 61, 62, 71, 72	1	846666238			RIBBON CABLE ASSY		S
52 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 62, 71, 72, 102	1	846317717			CABLE ASSEMBLY (RIBBON)		S
53 DLT		846783135			CABLE ASSEMBLY (INTER-TIER)		DLT 5

STOCKLIST							
ITEM	A	B	C	D	E	F	G H
LIST	QTY PER LIST	IDENTIFICATION NO.	CONCODE	DRAWING	DESCRIPTION	REFERENCE	NOTE
54 DLT		846314128			CABLE ASSEMBLY		DLT 32
55 DLT		846314136			CABLE ASSEMBLY		DLT 32
56 DLT		846448603			CABLE ASSEMBLY		DLT 32
57 DLT		846448695			CABLE ASSEMBLY		DLT 32
58 DLT		846551503			CABLE ASSEMBLY		DLT 32
59 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103, 111	3	8466809764			CABLE KIT (INTER-TIER)		DLT 5
61 1, 2, 3, 6, 51, 52, 71, 72	1	846746527			GROUND CABLE ASSEMBLY		30
62 31, 32, 53, 54, 61, 62, 65, 101, 102	1	846746519			GROUND CABLE ASSEMBLY		30
64 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 65, 71, 72, 109, 111	2	846808799			COVER		S
65 DLT		846726016			COVER		DLT 5
66 DLT		846730651			REAR COVER KIT		DLT 5
67 DLT		847606229			REAR COVER KIT		DLT 5
69 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 101, 102	8	846697100			BRACKET ASSY		S
70 A	1	847333656			AC CABLE ASSY (RECT 1-3)		S
71 A	1	847333664			AC CABLE ASSY (RECT 4-6)		S
72 K30	1	846481232			K30 CABLE ASSEMBLY		S
73 K31	1	846481240			K31 CABLE ASSEMBLY		S
74 K32	1	846481257			K32 CABLE ASSEMBLY		S
75 K33	1	846826376			K33 CABLE ASSEMBLY, AC INPUT		S 76
77 K34	1	847157403			12" EXTENSION FOR EIGHT FOOT FRAME ENVIRONMENTS		S 91
79 DLT		847494549			REAR COVER KIT		DLT 5
81 A	1	847362967			LABEL		S
82 A	1	847251204			LABEL, WARNING		S
83 DLT		846511138			LABEL, PRODUCT IDENTIFICATION		DLT 5
84 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103	1	846316706			LABEL, POSITION INDICATOR		DLT 5
86 K11	1	847097037			48V CP2 WITH X.25/TL1 KIT		S
87 K12	1	847097045			48V CP2 WITH X.25/TL1 KIT AND VOICE RESPONSE		S
89 51, 52, 63, 54, 103	1	846646271			BRACKET, RSA RIGHT		S
90 1, 2, 3, 6, 31, 32, 61, 62, 71, 72	2	846646271			BRACKET, RSA RIGHT		S
91 51, 52, 63, 54, 103	1	846546321			BRACKET, RSA LEFT		S
92 1, 2, 3, 6, 31, 32, 61, 62, 71, 72	2	846546321			BRACKET, RSA LEFT		S
93 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	2	846303519			BRACKET, CONTROLLER MTS		DLT 5
94 3, 6, 107	1	107094368			BRACKET, CONTROLLER MTS		S
95 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	106744966			167790123 PRODUCT MANUAL (LINEAGE 2000 ECS BATTERY MANAGEMENT SYSTEM), SELECT CODE 167-790-123, ISSUE 3		S
96 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	106777097			167790117 PRODUCT MANUAL (LINEAGE 2000 ECS BATTERY MANAGEMENT SYSTEM), SELECT CODE 167-790-034, ISSUE 3		S
97 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	106923103			PRODUCT MANUAL (LINEAGE 2000 ECS BATTERY PLANT), SELECT CODE 167-790-034, ISSUE 1		S
98 DLT		108065485			LINEAGE 2000 BATTERY PLANT MANUAL (BINDER ONLY), SELECT CODE 115-003 ISSUE 2		DLT 5

STOCKLIST							
ITEM	A	B	C	D	E	F	G H
LIST	QTY PER LIST	IDENTIFICATION NO.	CONCODE	DRAWING	DESCRIPTION	REFERENCE	NOTE
99 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	846730653			SERVICE KIT (DRAWING PACKAGE)		S
100 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 71, 72	1	846736841			TEMPLATE		S
101 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	8466801819			LINEAGE 2000 BATTERY PLANT BINDER		S
102 61, 62	2	844218784			HOLD DOWN PLATE		16
103 61, 62, 65	5	841209729			ANCHOR 3/8 SELF DRILL		16
107 DLT		844218784			HOLD DOWN PLATE		DLT 5, 16
108 61, 62, 109, 111	1	846689708			TEMPLATE		DLT 5, 16
109 61, 62, 104, 105	1	846838060			COVER TOP		S
110 A	1	847362916			COVER		S
111 A	1	847362924			COVER (TOP)		S
112 A	1	847362932			COVER (BOTTOM)		S
113 DLT		406746339			KS23616L22 10A CIRCUIT BREAKER KIT		DLT 5, 17
114 DLT		406746354			KS23616 L24 20A CIRCUIT BREAKER KIT		DLT 5, 17
115 DLT		406746362			KS23616L25 30A CIRCUIT BREAKER KIT		DLT 5, 17
116 DLT		406746370			KS23616 L26 45A CIRCUIT BREAKER KIT		DLT 5, 17
117 DLT		406746388			KS23616L27 60A CIRCUIT BREAKER KIT		DLT 5, 17
119 63	1	601376437	J85504C-1 L20		4 SHELF STAND, FRONT COVER & MOUNTING MATERIAL FOR 2VR375E TYPE BATTERY (BOLT TOGETHER STAND)		S
120 64, 110	1	601376445	J85504C-1 L21		8 SHELF STAND, FRONT COVER & MOUNTING MATERIAL FOR 2VR375E TYPE BATTERY (BOLT TOGETHER STAND)		S
122 DLT		406746313			KS23616 L20 3A CIRCUIT BREAKER KIT		DLT 5, 17
123 DLT		406746321			KS23616 L21 5A CIRCUIT BREAKER KIT		DLT 5, 17
124 DLT		406746347			KS23616 L23 15A CIRCUIT BREAKER KIT		DLT 5, 17
126 106	1	846830461			TRANSITION ASSY (CABLE RACK)		S
130 1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103	8	400681607			PLT-AS-N TIE CABLE		13
131 A	3	901067017			TIE CABLE, WP91717L4 .140X14.5		13
131 B	7	901067017			TIE CABLE, WP91717L4 .140X14.5		13
140 A	1	847362908			A" BOX		S
141 A	1	847362981			RACEWAY		S
142 A	1	847312808			ASSEMBLY BLOCK		S
143 A	2	403002041			PLUS, 2783 (2")		S
144 A	6	403628088			PLUS, 2703 (.875")		S
145 A	4	957244033			BUSHING-SNAP, S3-875-11		S
146 A	1	403689062			GRONMET, SNS 3-2 (3")		S
150 DLT		405928359			MHG-136-01 RICHCO PANEL FASTENER		DLT 5
152 A	10	841064876			10-32X3/8 SCR #8H		S




ISSUE	20	20
SH NO	D1	D2

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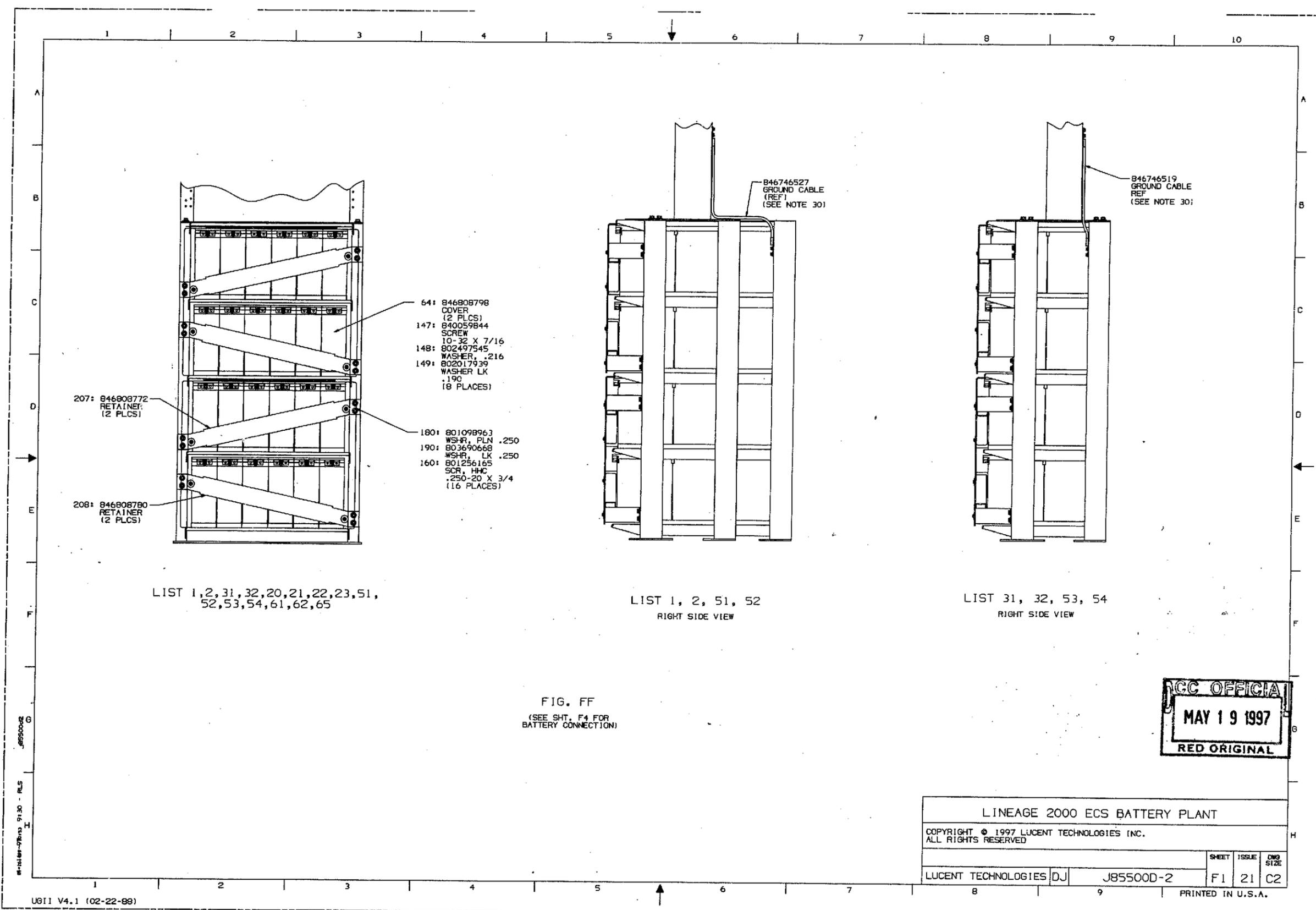
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STOCKLIST								STOCKLIST								STOCKLIST											
ITEM	A	B	C	D	E	F	G	H	ITEM	A	B	C	D	E	F	G	H	ITEM	A	B	C	D	E	F	G	H	
	LIST	QTY PER LIST	COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REFERENCE	NOTE SYM	NO		LIST	QTY PER LIST	COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REFERENCE	NOTE SYM	NO		LIST	QTY PER LIST	COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REFERENCE	NOTE SYM	NO	
153	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72	66	801078717		12-24X5/8 SCR, HHSMT													279	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103	1	847731783	847731783	CABLE ASSEMBLY			37	
157	103	6	840057640		.250-20X5/8 SCR, HHSMT				206	DLT	-	845722577		BATTERY RETAINER		DLT	5	284	1, 2, 3, 6, 31, 32, 51, 52, 71, 72	1	847731909	847731909	CABLE ASSEMBLY			37	
159	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 65, 71, 72, 102, 106	14	840057640		.250-20X5/8 SCR, HHSMT				207	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 65, 71, 72, 109, 111	2	846808772		BATTERY RETAINER		DLT	5	288	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	847494549	847494549	REAR COVER				
161	DLT	-	801226480		.250-20X1 SCR, HH E/W LKWSHR		DLT	5	208	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 65, 71, 72, 109, 111	2	846808780		RETAINER ASSY				289	43	1	601780298	J85504C-1 L30	BATTERY STAND			S	
162	DLT	-	801226480		.250-20X1 SCR, HH E/W LKWSHR		DLT	5	235	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 104, 105	3	401997350		FCP12C20 PLATE, FCP12-C20 (PANDUIT)				238	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	1	847223500		HARDWARE KIT	PREP1		53, 54	
169	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 106, 107	1	847230505		LABEL, PRODUCT IDENTIFICATION			10	239	65, 109, 111	1	847223559		HARDWARE KIT	PREP2		53, 54	240	101	1	847250610		HARDWARE KIT	PREP3		53, 54	
171	51, 52, 53, 54, 103	1	801799232	J8570282-L3	RECTIFIER SHELF ASSEMBLY			32	242	PREP1	6	402244081		MP9117L1 TIE CA-MP9117L1	PREP1			243	PREP1	2	403293752		2-520184-2 RECT-2-520184-2 FASTON	PREP1			
172	1, 2, 3, 6, 31, 32, 51, 52, 71, 72	2	801799232	J8570282-L3	RECTIFIER SHELF ASSEMBLY			32	244	PREP1	1	405161983		MP90247L9 FUSE-MP90247L9 2A	PREP1			245	PREP1	3	405673146		MP90247L7 FUSE-MP90247L7 1-1/3A NH	PREP1			
176	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103	20	814251880	P-42E188	P42E188 .339X.890X.056 WASHER				246	PREP1	16	801098963		P109896 WSHR-P109896PLAIN ST .250	PREP1			247	PREP1	16	801256165		P125616 HHC .250-20X3/4	PREP1			
178	65, 102, 108	4	814251880	P-42E188	P42E188 .339X.890X.056 WASHER				248	PREP1	16	803690668		P369066 .250E-D WASHER, LK	PREP1			249	PREP1	6	801462730		P146273 HHC .375-16X1.75	PREP1			
181	DLT	-	802841577	P-284157	P284157 .250 WASHER		DLT	5	250	PREP1	6	802017939		P201793 WSHR-P201793LK ST .190	PREP1			251	PREP1	34	802286773		P228677 LKWR .375 E-D 289A	PREP1			
182	DLT	-	802841577	P-284157	P284157 .250 WASHER		DLT	5	252	PREP1	8	802497545		P249754 WASHER .190 289A	PREP1			253	PREP1	34	814251898		P42E188 WASHER .375 289A	PREP1			
183	DLT	-	802841544	P-284154	.216 WASHER		DLT	5	254	PREP1	8	840395844		SCR-190-32X7/16 PHW	PREP1			255	PREP1	28	841064777		NUT .375-16 HEX	PREP1			
187	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 103	20	802986273	P-298627	P298627 .312E-D WASHER, LK				256	PREP1	1	846638575		KIT, SYSTEM GROUND ADPTR	PREP1			257	PREP1	3	846896579		BRKT-CA TIE	PREP1			
189	DLT	-	803690668	P-369066	P369066 .250E-D WASHER, LK		DLT	5	258	PREP1	19	900732486		NUT-HEX #8-32 E/W WSHR	PREP1			259	PREP1	3	901078717		SCR HHSMT #12-24X5/8 STL	PREP1			
190	51, 52, 53, 54, 103	6	803690668	P-369066	P369066 .250E-D WASHER, LK				260	PREP1	1	901181834		3/16-T10 INSULATED WRENCH, ALLEN	PREP1			261	PREP1	18	987823723		C77 10GA TERM LUG C77	PREP1			
191	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 102	6	802106740	P-210674	.216E-D WASHER, LK				263	PREP2	16	801098963		P109896 WSHR-P109896PLAIN ST .250	PREP2			264	PREP2	16	801256165		P125616 HHC .250-20X3/4	PREP2			
192	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 109, 111	4	804236384	P-423638	.216 WASHER, LK ITT				265	PREP2	19	803690668		P369066 .250E-D WASHER, LK	PREP2			266	PREP2	8	801601279		P160127 SCR HHC .312-18X1	PREP2			
195	A	18	900732486		#8-32 NUT, E/W LKWR				267	PREP2	8	802017939		P201793 WSHR-P201793LK ST .190	PREP2			268	PREP2	8	802497545		P249754 WASHER .190 289A	PREP2			
196	A	8	997035597		10-32 NUT, E/W LKWR				269	PREP2	8	802986273		P298627 LKWR-P298627 5/16X.627X *	PREP2			270	PREP2	8	814251890		P42E188 WSHR-P42E188 PLAIN	PREP2			
197	1, 2, 3, 6, 31, 32, 51, 52, 53, 54, 61, 62, 71, 72, 104, 105	12	841064785		.312-18 NUT, HEX		DLT	5	271	PREP2	8	840059844		SCR-190-32X7/16 PHW	PREP2			273	1	8	801601279		P160127 SCR HHC .312-18X1	PREP3			
198	DLT	-	841064789		.312-18 NUT, HEX		DLT	5	274	1	8	802986273		P298627 LKWR-P298627 5/16X.627X *	PREP3			275	1	8	814251890		P42E188 WSHR-P42E188 PLAIN	PREP3			
199	DLT	-	841064751		.250-20 NUT, HEX		DLT	5	276	1	3	846896579		BRKT-CA TIE	PREP3			277	1	66	901078717		SCR HHSMT #12-24X5/8 STL	PREP3			

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 SHEET 02 ISSUE 20 INCH SIZE B
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Rev 107 21 08 21 98 07 1897 (01/97) L8550002 0 2 of 23



207: 846808772
RETAINER
(2 PLCS)

208: 846808780
RETAINER
(2 PLCS)

64: 846808798
COVER
(2 PLCS)
147: 840059844
SCREW
10-32 X 7/16
148: 802497545
WASHER .216
149: 802017939
WASHER LK
.190
(8 PLACES)

180: 801098963
WSHR, PLN .250
190: 803690668
WSHR, LK .250
160: 801256165
SCR, IHC
.250-20 X 3/4
(16 PLACES)

846746527
GROUND CABLE
(REF)
(SEE NOTE 30)

846746519
GROUND CABLE
REF
(SEE NOTE 30)

LIST 1, 2, 31, 32, 20, 21, 22, 23, 51,
52, 53, 54, 61, 62, 65

LIST 1, 2, 51, 52
RIGHT SIDE VIEW

LIST 31, 32, 53, 54
RIGHT SIDE VIEW

FIG. FF
(SEE SHT. F4 FOR
BATTERY CONNECTION)

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LUCENT TECHNOLOGIES	DJ	J85500D-2
SHEET	ISSUE	DWG SIZE
F1	21	C2

J85500D
W-1218-97R13 9130 - RLS

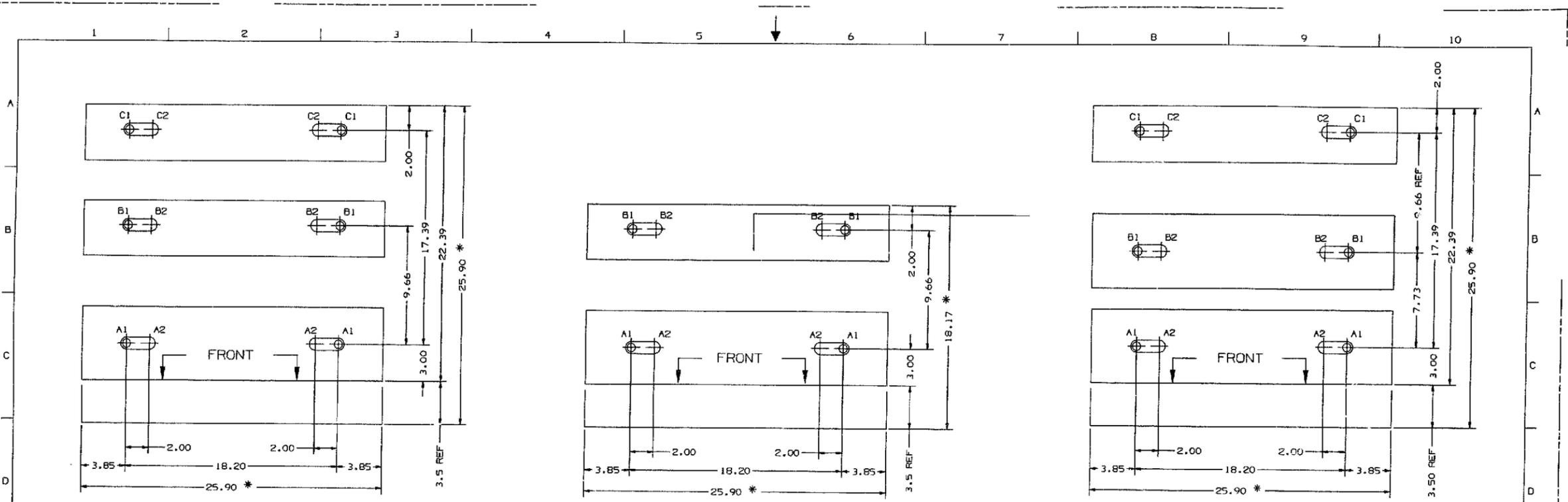


FIG. HH
FOOT PRINT FOR LISTS 1, 2, 41, 42, 51, 52,
(SEE FLOOR ANCHOR LOC. TABLE)
SCALE: 1/4

FIG. I
FOOT PRINT FOR LISTS 31, 32, 43, 44, 53, 54
(SEE FLOOR ANCHOR LOC. TABLE)
SCALE: 1/4

FIG. AA
FOOT PRINT FOR LISTS 61, 62, 63, 64
(SEE FLOOR ANCHOR LOC. TABLE)
SCALE: 1/4

* OVERALL DIMENSION INCLUDING RETAINERS & COVERS,
BATTERY STRING DISCONNECT AND/OR TERMINAL PLATE.
SEE NOTE 76.

* OVERALL DIMENSION INCLUDING RETAINERS, 2 COVERS,
BATTERY STRING DISCONNECT AND/OR TERMINAL PLATE.
SEE NOTE 76.

* OVERALL DIMENSION INCLUDING RETAINERS & COVERS,
BATTERY STRING DISCONNECT AND/OR TERMINAL PLATE.
SEE NOTE 76.

- 45: 841630155
HOLD DOWN WASHER
- 103: 841209729
ANCHOR, 3/8 SELF-DRILL
- 104: 801462730
SCR, .375-18 X 1.75
- 105: 802286773
WASHER, LK .375
- 106: 814251898
WASHER, FLAT .375
(6 PLCS)
- 107: 844218784
PLATE, HOLD DOWN
(2 PLCS)
(LIST 61, 62, 63 & 64 ONLY)

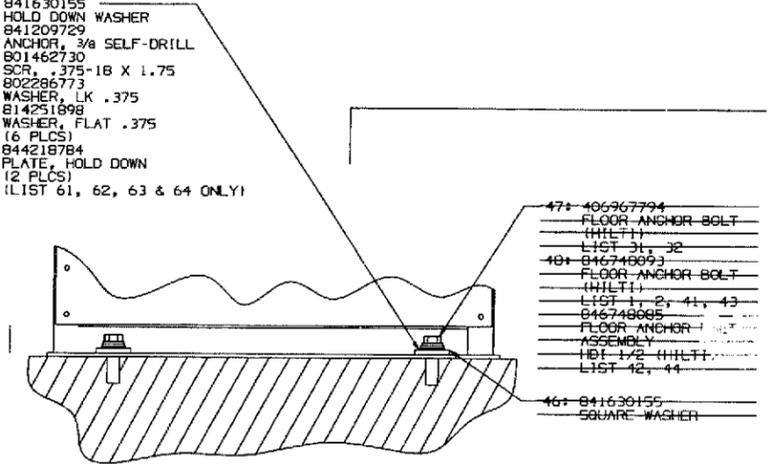


FIG. X
INTEGRATED GROUND ATTACHMENT
LISTS 1, 2, 31, 32, 41, 42, 43, 44,
51, 52, 53, 54, 61, 62, 63 & 64
(BACK VIEW TYPE)
SCALE: 1/4

FLOOR ANCHOR LOCATION TABLE							
LIST				DESCRIPTION	PRIMARY	ALTERNATE*	FIGURE
31	32	43	44	NON-SEISMIC 2VR250E BATTERY APPLICATION	A1, B1	A2, B2	I
31	32	43		SEISMIC 2VR250E BATTERY APPLICATION	A1, B1	A2, B2	I
1	2	41	42	NON-SEISMIC 2VR375E BATTERY APPLICATION	A1, C1	A2, C2	G
61	62	63	64		A1, B1, C1	A2, B2, C2	AA
1	2	41		SEISMIC 2VR375E BATTERY APPLICATION	A1, B1, C1	A2, B2, C2	G

*IF INTERFERENCE WITH FLOOR REINFORCING BARS OCCURS DURING INSTALLATION OF ANCHORING DEVICE AT PRIMARY MOUNTING LOCATION THEN ALTERNATE LOCATION SHALL BE USED.

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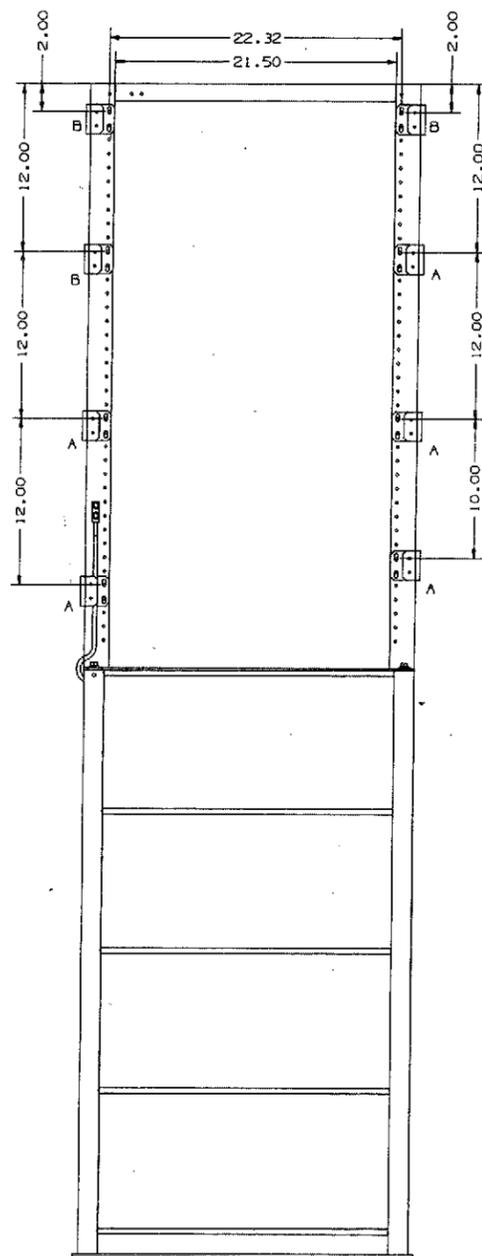


FIG. UU
(LOCATION OF BRACKETS)

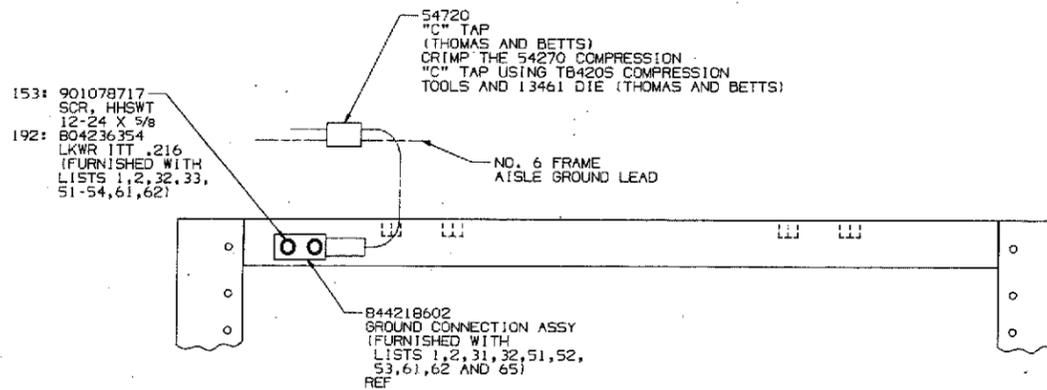
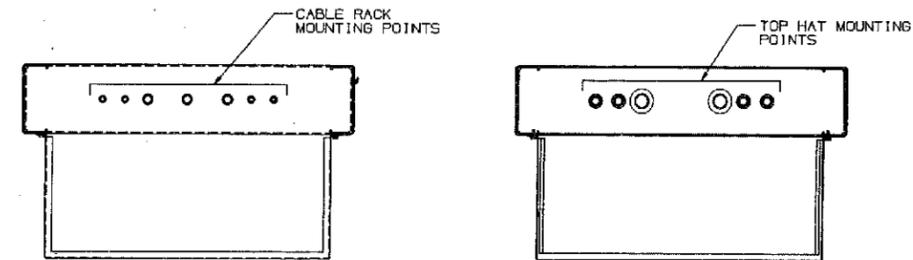


FIG. RR
(FRAME GROUNDING CONNECTIONS)

BRACKET INSTALLATION NOTES:

BRACKETS (COMCODE B466971001)
TO BE INSTALLED AS FOLLOWS:
-FOR LISTS 1, 2, 31 AND 32, BRACKETS
ARE FACTORY MOUNTED IN POSITION 'A'
-FOR LIST K2, BRACKETS ARE FACTORY
MOUNTED IN POSITION 'A' AND TO BE
FIELD MOUNTED IN POSITION 'B'.



SECTION AC-AC
SCALE: 3/16

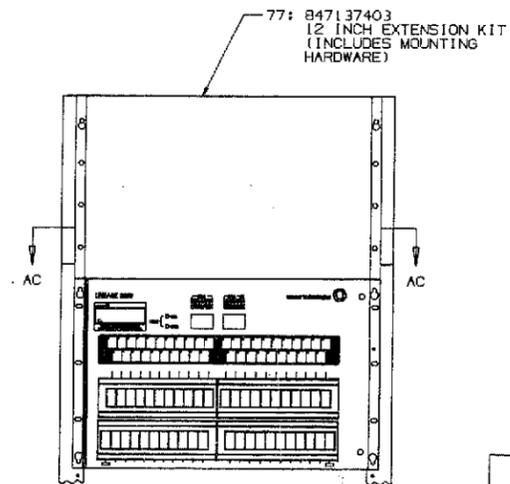
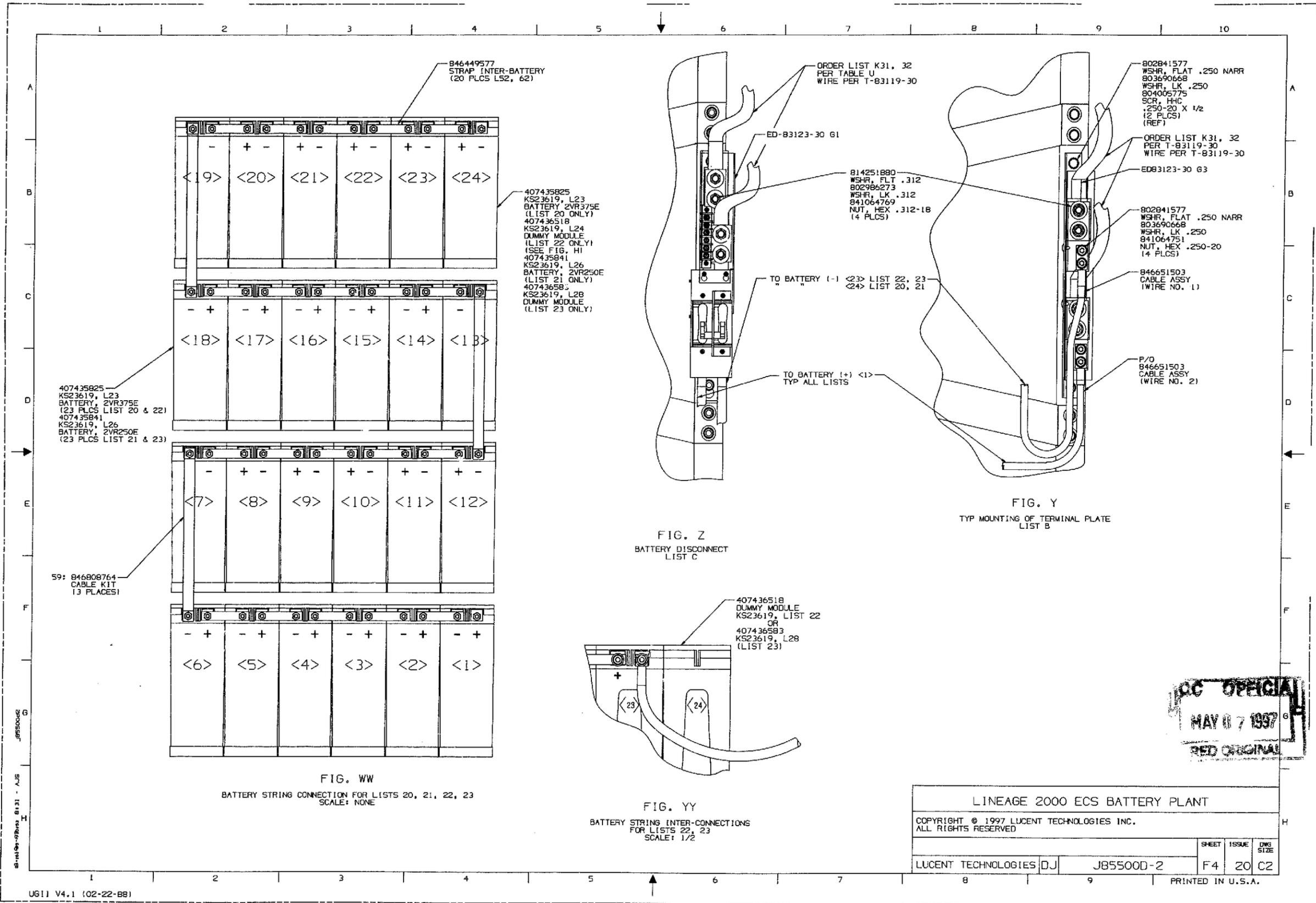


FIG. 11
LIST K34

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LUCENT TECHNOLOGIES		DJ	J85500D-2	SHEET	ISSUE
				F3	21
				DWG	SIZE
				C2	

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846449577
STRAP INTER-BATTERY
(20 PLCS L52, 62)

407435825
KS23619, L23
BATTERY, 2VR375E
(LIST 20 ONLY)
407436518
KS23619, L24
DUMMY MODULE
(LIST 22 ONLY)
(SEE FIG. H)
407435841
KS23619, L26
BATTERY, 2VR250E
(LIST 21 ONLY)
407436583
KS23619, L28
DUMMY MODULE
(LIST 23 ONLY)

407435825
KS23619, L23
BATTERY, 2VR375E
(23 PLCS LIST 20 & 22)
407435841
KS23619, L26
BATTERY, 2VR250E
(23 PLCS LIST 21 & 23)

59: 846808764
CABLE KIT
(3 PLACES)

ORDER LIST K31, 32
PER TABLE U
WIRE PER T-83119-30

ED-83123-30 G1

814251880
WSHR, FLT .312
802986273
WSHR, LK .312
841064769
NUT, HEX .312-18
(4 PLCS)

TO BATTERY (-) <23> LIST 22, 23
<24> LIST 20, 21

TO BATTERY (+) <1>
TYP ALL LISTS

802841577
WSHR, FLAT .250 NARR
803690668
WSHR, LK .250
804005775
SCR, HHC
.250-20 X 1/2
(2 PLCS)
(REF)

ORDER LIST K31, 32
PER T-83119-30
WIRE PER T-83119-30

ED83123-30 G3

802841577
WSHR, FLAT .250 NARR
803690668
WSHR, LK .250
841064751
NUT, HEX .250-20
(4 PLCS)

846651503
CABLE ASSY
(WIRE NO. 1)

P/O
846651503
CABLE ASSY
(WIRE NO. 2)

FIG. WW
BATTERY STRING CONNECTION FOR LISTS 20, 21, 22, 23
SCALE: NONE

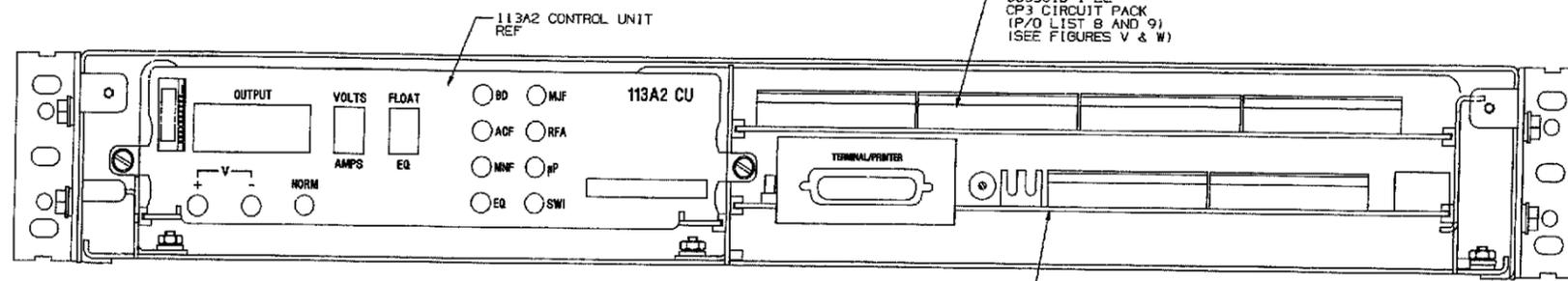
FIG. Z
BATTERY DISCONNECT
LIST C

FIG. YY
BATTERY STRING INTER-CONNECTIONS
FOR LISTS 22, 23
SCALE: 1/2

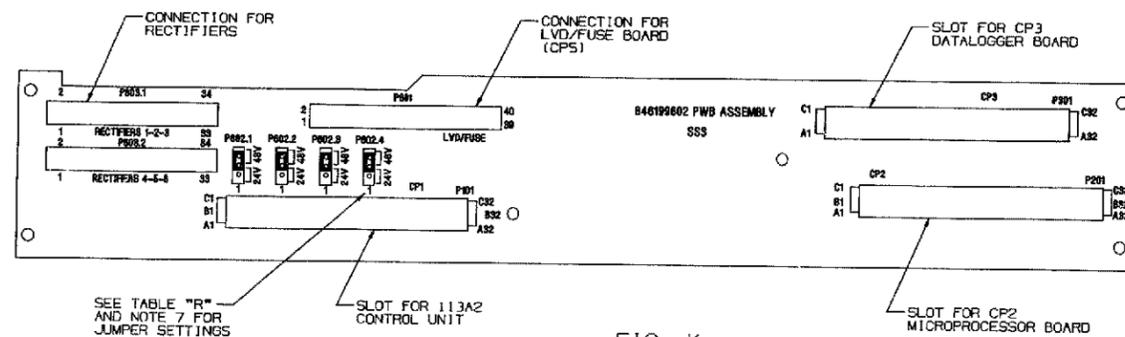
FIG. Y
TYP MOUNTING OF TERMINAL PLATE
LIST B

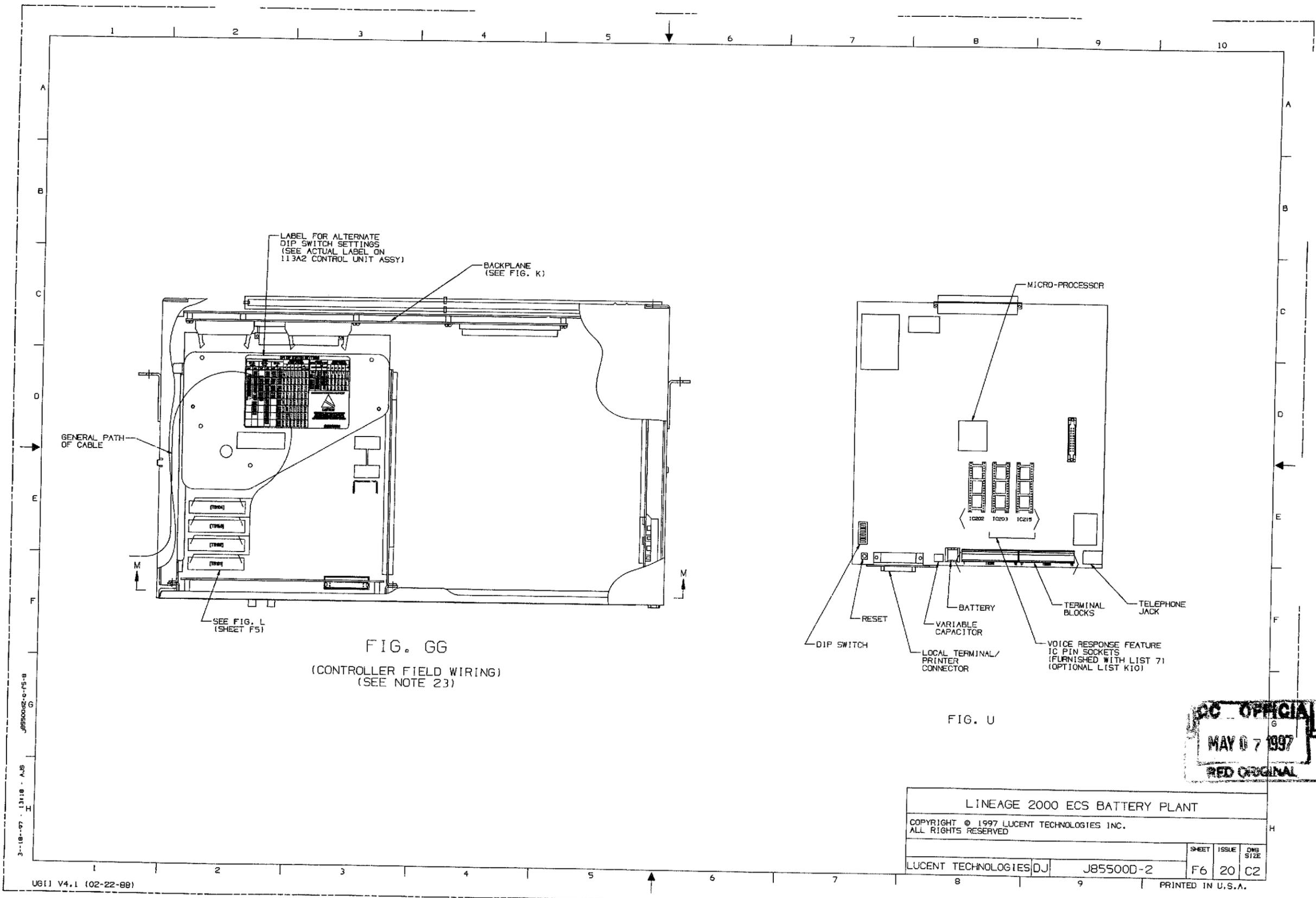
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SECT. M-M
(FRONT VIEW OF JB5501D-1 CONTROLLER)
SCALE: 1/1

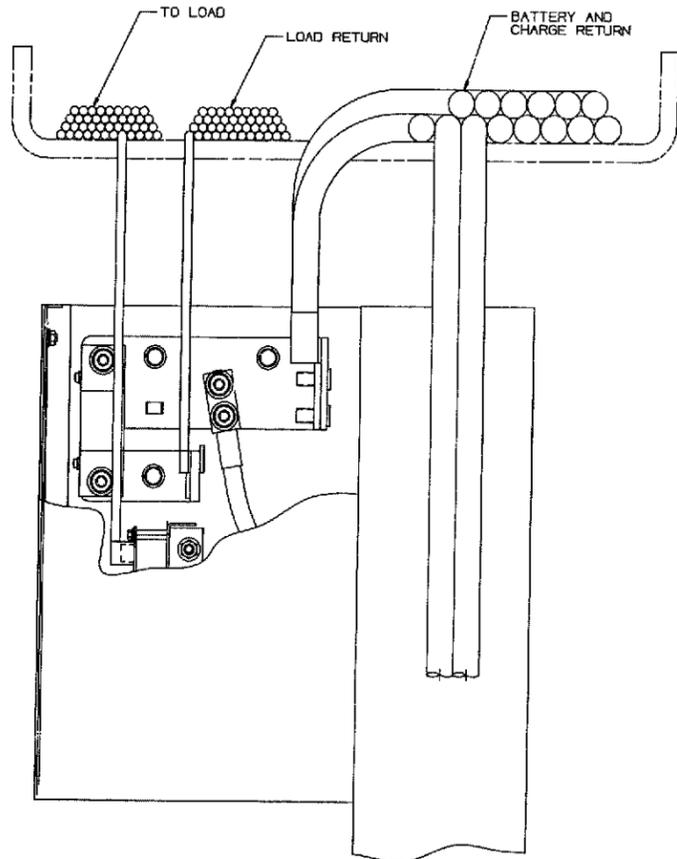




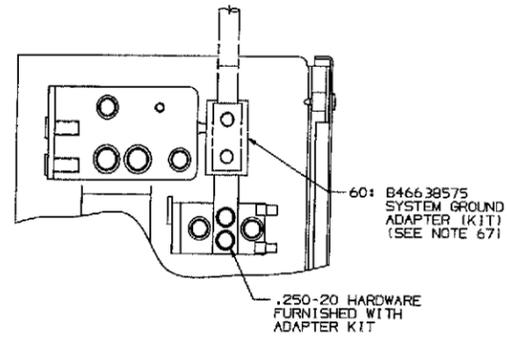
J85500D-2-A15-B
 3-1181-97-13118-A15
 H

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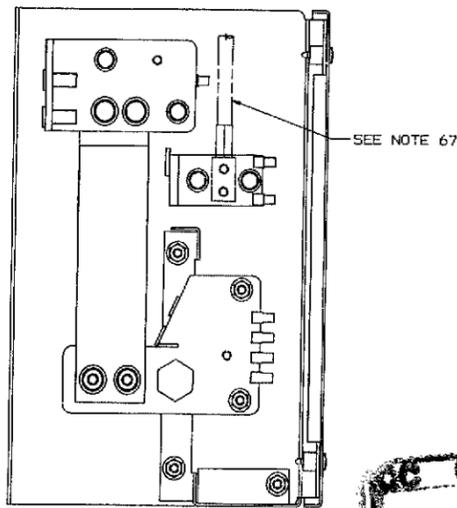
LINEAGE 2000 ECS BATTERY PLANT			
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LUCENT TECHNOLOGIES/DJ	J85500D-2	SHEET	ISSUE
		F6	20
		DWG SIZE	C2
			PRINTED IN U.S.A.



VIEW XX-XX
(SEE NOTE 26)



SECT. JJ-JJ



SECT. SS-SS

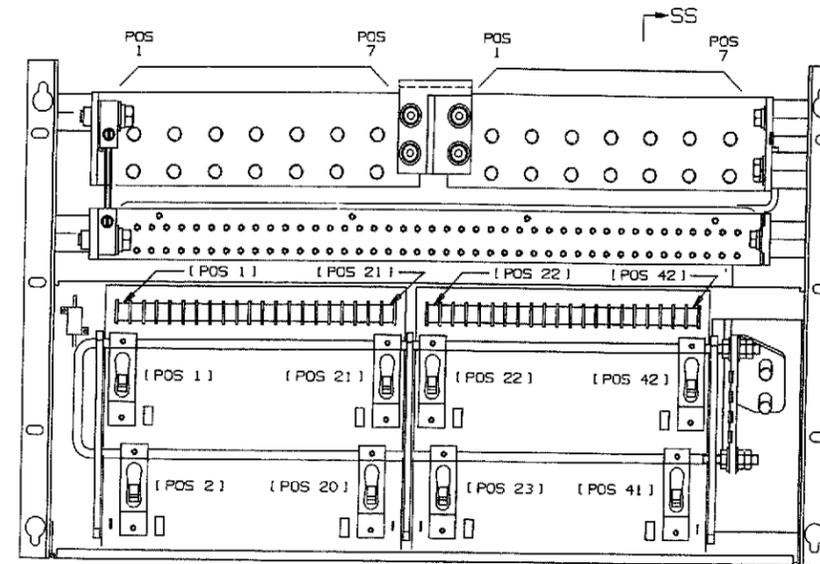


FIG. N
(SEE NOTE 25)
SCALE: 3/4

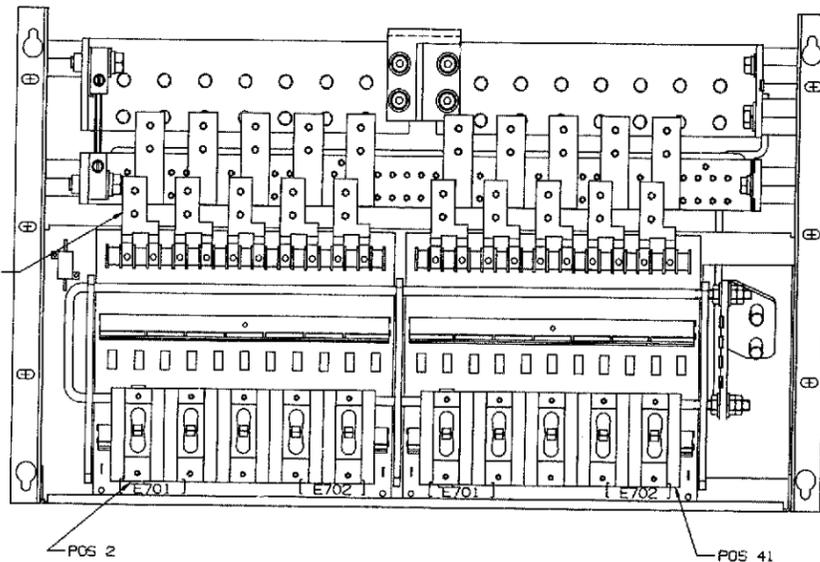


FIG. T
(DISTRIBUTION ASSY (EDB3241-30 GR1) SHOWN WITH LIST 14 OR 15 CIRCUIT BREAKER INSTALLED)

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LINEAGE 2000 ECS BATTERY PLANT

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SHEET		ISSUE	DWG SIZE
LUCENT TECHNOLOGIES/DJ	J85500D-2	F7	20 C2

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J85500D-2-C-FS-8
3-18-97 - J3118 - AJS

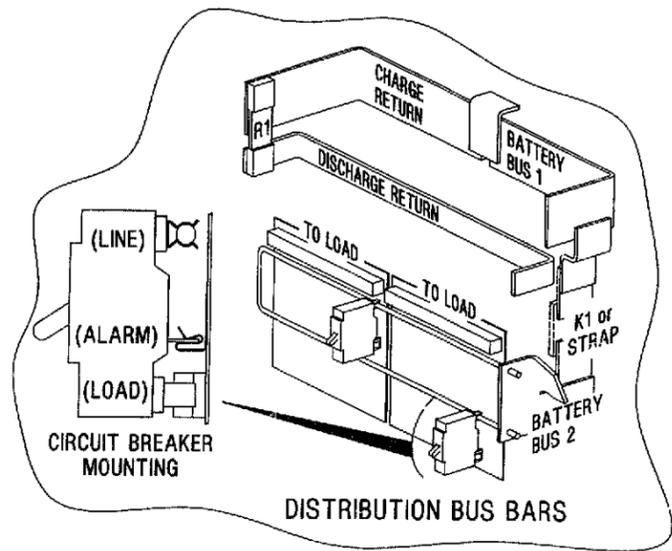


FIG. Q
(SEE NOTE 25)

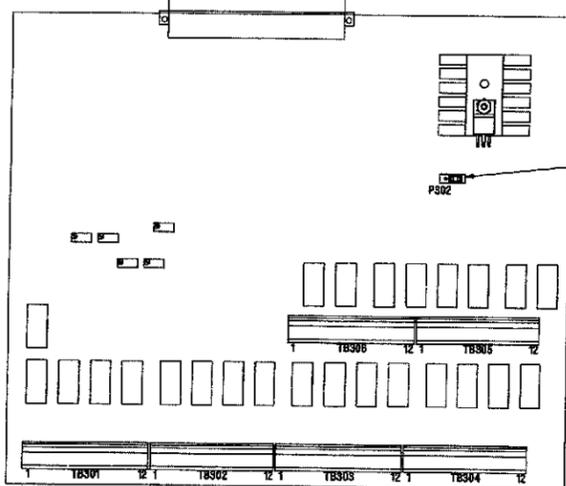


FIG. V

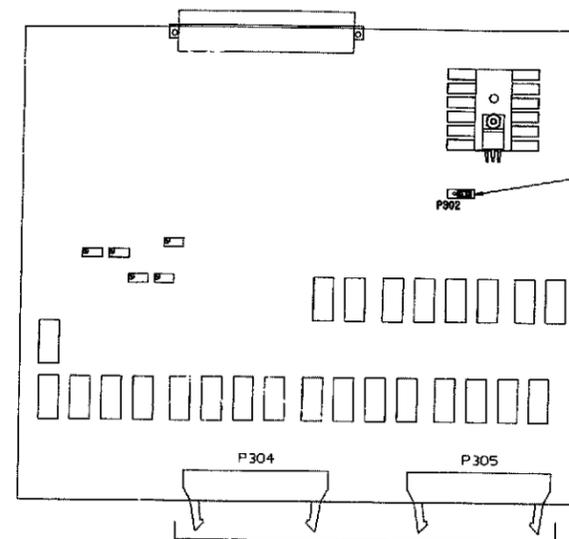


FIG. W

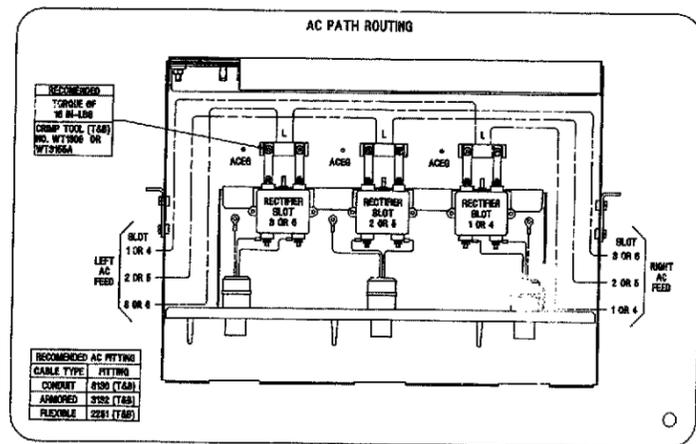


FIG. O
(SEE NOTE 22)

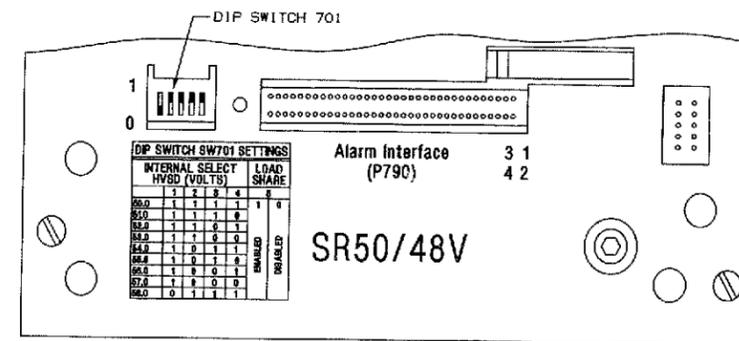


FIG. P
(SEE NOTE 29)

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LUCENT TECHNOLOGIES DJ	J85500D-2	SHEET FB	ISSUE 20
		DWG SIZE	C2

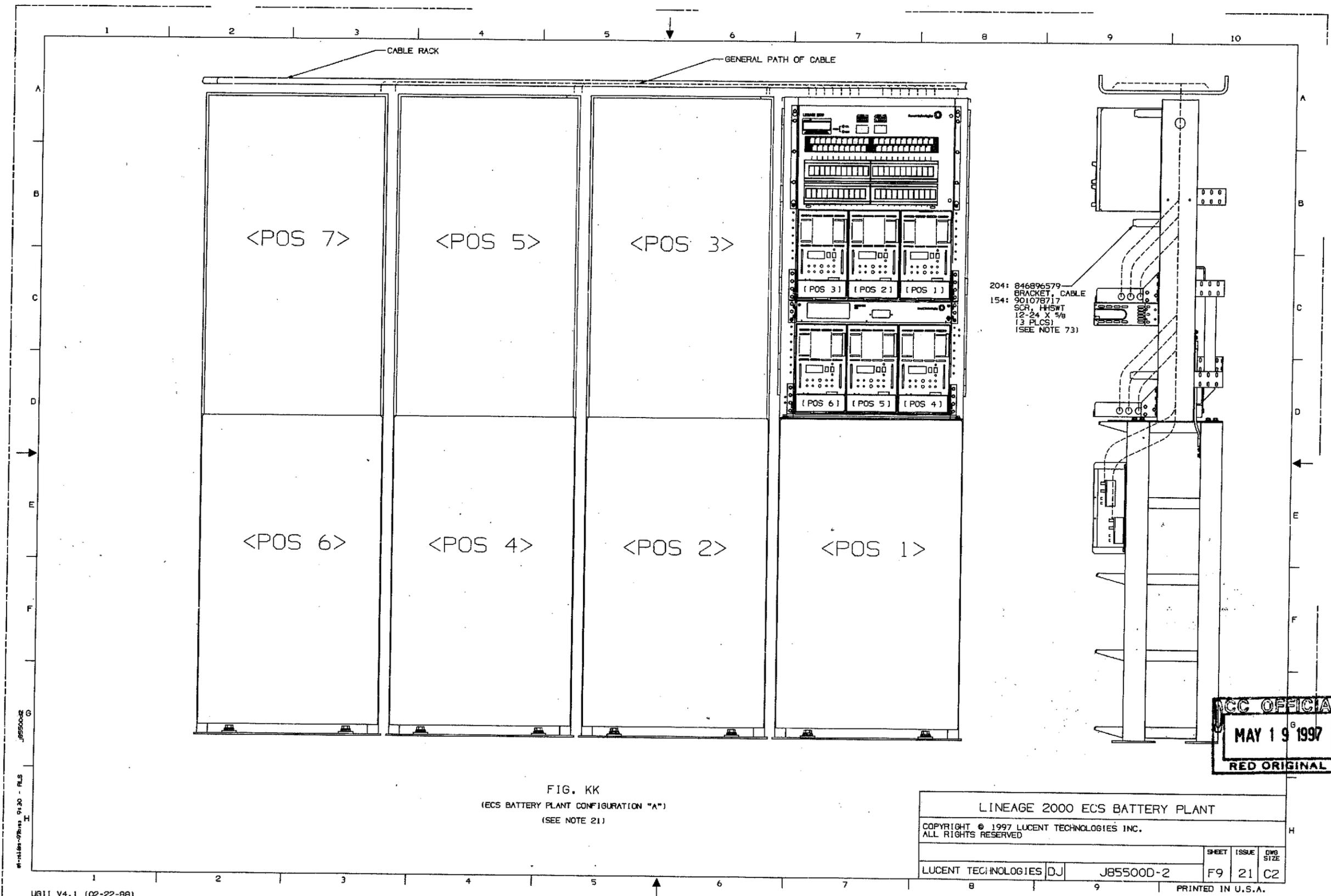


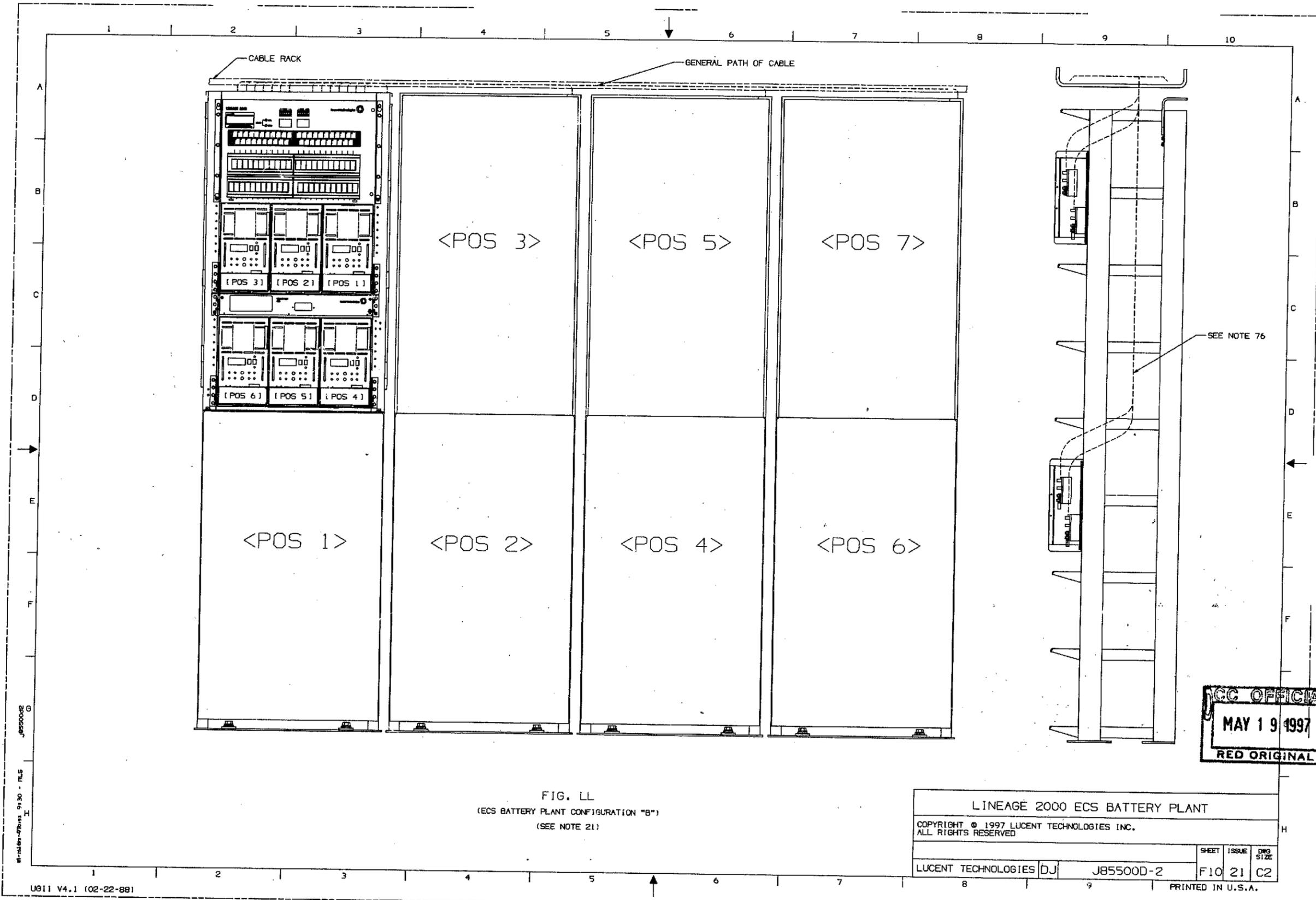
FIG. KK
 (ECS BATTERY PLANT CONFIGURATION "A")
 (SEE NOTE 21)

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SHEET	ISSUE	DWG SIZE
F9	21	C2

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J855000-2
 01/30 - RLS
 H

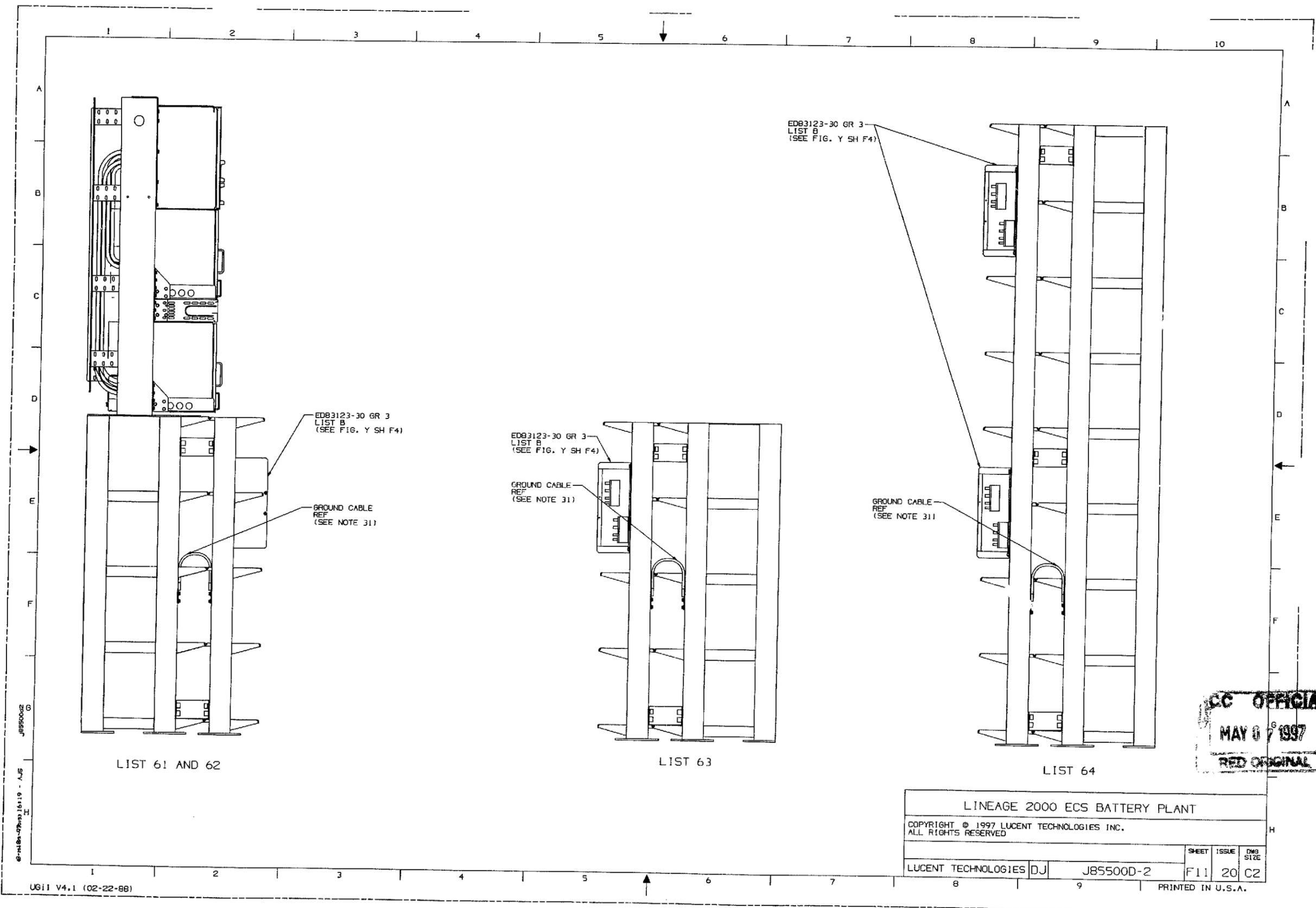


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FIG. LL
(ECS BATTERY PLANT CONFIGURATION "B")
(SEE NOTE 21)

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LUCENT TECHNOLOGIES	DJ	J85500D-2
SHEET	ISSUE	DWG SIZE
F10	21	C2

JB5500D-2
9130 - RLS
9130 - RLS



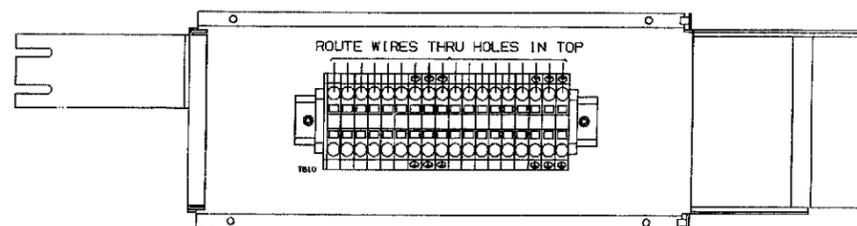
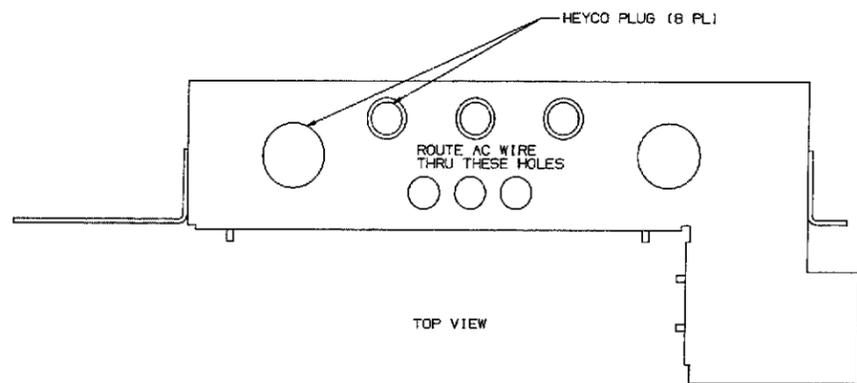


FIG. AC
AC ROUTING

ALL AC WIRING IS DONE IN THIS AC BOX. USE 10 GAUGE WIRE. THREE (3) HOLES HAVE KNOCKOUTS FOR 3/4" CONDUIT. REMOVE APPROPRIATE NUMBER OF HEYCO PLUGS. STRIP EACH WIRE 1/2" AND INSERT INTO APPROPRIATE POSITION. REPLACE COVER WHEN AC WIRING IS COMPLETED. (SEE FIGURES AD, AE & AF)

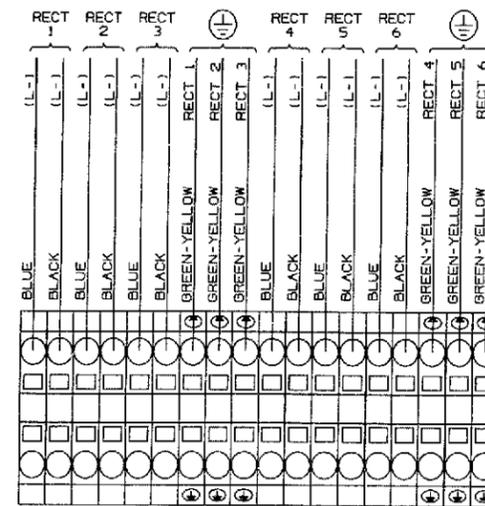
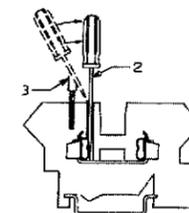


FIG. AD
AC WIRING SCHEME

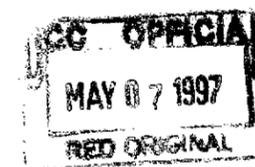


- TO INSTALL WIRE:
1. STRIP WIRE TO 1/2" →
 2. INSERT SCREW DRIVER INTO SLOT, APPLYING ENOUGH PRESSURE TO OPEN HOLE FOR WIRE.
 3. INSERT WIRE
 4. REMOVE SCREW DRIVER

FIG. AE
WIRE INSTALLATION

CABLE TYPE	RECOMMENDED AC FITTINGS			
	3/4" FITTING	COMCODE	1/2" FITTING	COMCODE
FLEXIBLE	2535 (T & B)	405217340	2525 (T & B)	405415902
ARMORED	3115 (T & B)	401004569	3112 (T & B)	401111992
CONDUIT	8223 (T & B)	997104575	8121 (T & B)	997652474

FIG. AF



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FLOOR PLAN DATA

PHYSICAL DATA								
LIST	FRAME OUTLINE	HEIGHT	DEPTH	WIDTH	WEIGHT W/O VR BATTERIES (LBS.)	WEIGHT EQUIPPED W/ VR BATTERIES (LBS.)	REC. FRONT AISLE	REC. REAR AISLE
1,2,51,52	FIG.MM	7'- 0"	2'- 2"	2'- 1 7/8"	345	2220	2'- 6"	2'- 0"
61-64	FIG.AA							
31,32,53,54	FIG.NN	3'- 6"	1'- 6 1/4"	2'- 2"	290	1535	2'- 6"	2'- 0"
41	FIG.MM		2'- 2"		210	2085		
42	FIG.NN	6'- 10"	1'- 6 1/4"	2'- 2"	365	4110	2'- 6"	2'- 0"
43		3'- 6"			155	1400		
44		6'- 10"			265	2765		

HEAT RELEASE - WATTS (SEE NOTE 1)			
LIST		FULL LOAD	HALF LOAD
1,2,61 & 62 31 & 32	MAX		
	NOM	2744	1382
	MIN		

FLOOR LOAD (LBS./FT ²) = LOAD (LBS.)/FLOOR AREA (FT ²)					
LIST	WEIGHT (LBS.)	FLOOR AREA (FT ²) INCLUDING AISLE (SEE NOTE 2)	FLOOR LOAD (LBS./FT ²) (SEE NOTE 2)	FLOOR AREA FRAME OUTLINE (FT ²) (SEE NOTE 3)	FLOOR LOAD (LBS./FT ²) (SEE NOTE 3)
1,2,61,62 W/O BATTERIES	345	9.5	36	4.7	73
31 & 32 W/O BATTERIES	290	8.1	36	3.3	88
1,2,61,62 W/ BATTERIES	2220	9.5	234	4.7	472
31 & 32 W/ BATTERIES	1535	8.1	190	3.3	465
41 W/ BATTERIES	2085	9.5	219	4.7	444
42 W/ BATTERIES	4110		432		874
43 W/ BATTERIES	1400	8.1	173	3.3	424
44 W/ BATTERIES	2765		341		838

NOTES:

- HEAT RELEASE VALUES ARE GIVEN FOR ECS BATTERY PLANTS (LIST 1 OR 2) EQUIPPED WITH SIX SWITCH MODE RECTIFIERS (LIST 4) AT 55.5 VOLTS DC. TO CALCULATE HEAT RELEASE VALUES FOR ECS BATTERY PLANTS EQUIPPED WITH LESS THAN 6 RECTIFIERS USE THE FOLLOWING FORMULA.

$$\text{HEAT RELEASE (WATTS)} = \left[\frac{\text{HEAT RELEASE VALUE FROM TABLE} - 25}{6 \text{ RECTIFIERS}} \right] \times \text{NUMBER OF RECTIFIERS} + 25^*$$

* 25 REPRESENTS THE HEAT RELEASE VALUE - IN WATTS - FOR THE ECS CONTROLLER EQUIPPED WITH THE 113A2 CONTROL UNIT, CP2 AND CP3.

- THE FLOOR LOAD FOR THIS STAND EQUIPPED WITH VR BATTERIES IS COMPUTED BY AVERAGING THE LOAD OVER THE FLOOR AREA BOUNDED BY THE STAND SIDES AND THE CENTER LINES OF THE FRONT AND REAR AISLES (SEE FIGURE PP). SPECIAL PRECAUTIONS (SUCH AS INCREASING AISLE WIDTHS OR SPACE FROM ADJACENT EQUIPMENTS) MUST BE TAKEN TO INSURE THAT THIS EQUIPMENT DOES NOT OVERLOAD THE FLOOR ON WHICH IT WILL BE USED.
- THE FLOOR LOAD FOR THIS STAND EQUIPPED WITH VR BATTERIES IS COMPUTED BY AVERAGING THE LOAD OVER THE FLOOR AREA BOUNDED BY THE STAND OUTLINE (SEE FIG. MM OR NN). SPECIAL PRECAUTIONS (SUCH AS INCREASING AISLE WIDTHS OR SPACE FROM ADJACENT EQUIPMENTS) MUST BE TAKEN TO INSURE THAT THIS EQUIPMENT DOES NOT OVERLOAD THE FLOOR ON WHICH IT WILL BE USED.
- WHEN NO REAR AISLE IS REQUIRED THE UNIVERSAL BATTERY STAND MAY BE MOUNTED FLUSH AGAINST THE WALL.

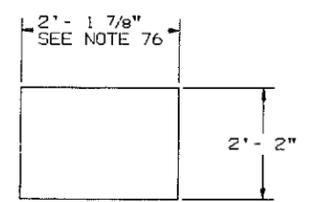


FIG. MM
FRAME OUTLINE
(LIST 1,2,41,42,51,52,
61-64)

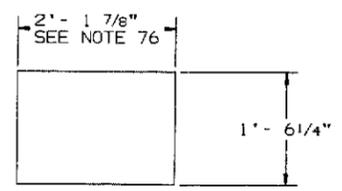


FIG. NN
FRAME OUTLINE
(LIST 31,32,43,44,53,54)

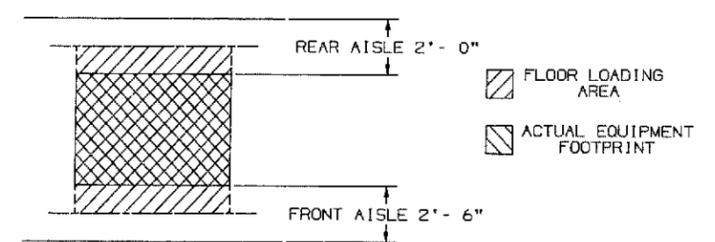


FIG. PP
(AREA USED FOR FLOOR
LOAD CALCULATIONS)



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			ISSUE 20
			DWG SIZE C2

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