

MANUFACTURING NOTES (CONTINUATION)

12-(CONTINUED) SPECIFIED IN THE JOB SPECIFICATION.

13-WHEN LIST 1 OR LIST 2 IS ORDERED TO BE EQUIPPED WITH LIST 22, 23, 24 OR 25, 26, 27, 28 OR 29 THIS CABLE AND WIRE FOR THE RECTIFIER EXTERNAL CHARGE LEAD FUSE PANEL SHALL BE PROVIDED BY THE SHOP WHEN LIST 22, 23, 24, 25, 26, 27, 28 OR 29 IS ORDERED SEPARATELY AND IS TO BE FIELD MOUNTED THIS CABLE WIRE SHALL BE SHIPPED LOOSE TO THE INSTALLER.

14-SUPPLEMENTARY LISTS SHALL BE SHIPPED SEPARATE WHEN NOT ORDERED WITH ASSOCIATED MAIN LISTS.

15-WHEN VERTICAL BUS BAR, PER LIST B, IS FURNISHED IN SUPPLEMENTARY BAY AND FUSE PANELS ARE EQUIPPED IN POSITIONS 1 AND 11, DISREGARD ONE OF THE MOUNTING SCREWS FOR THE FUSE PANELS.

16. APPLY BARCODE "WES" LABEL APPROX. AS SHOWN.

17. STAMP 1/8 HIGH CHARACTERS APPROXIMATELY AS SHOWN. UNLESS OTHERWISE SPECIFIED, PRINTED LABEL MAY BE USED.

18. THE EXISTING STOCKLIST HAS BEEN REPLACED BY A PPT GENERATED STOCKLIST. PARTS FOR PPT LISTS OR GROUPS ARE NOT INCLUDED IN NEW STOCKLIST.

ENGINEERING NOTES (CONTINUATION)

64-ENGINEER SHALL NOT ORDER L-16 WHEN CABLE JUNCTION STAND IS PROVIDED.

65-REFER TO H-285-150 CABLEING AND CABLE RACK ARRANGEMENTS.

66-SEE J87223C-2 OR J87223D-2 NOTES 58 AND 59.

67-FIGURE 3 MAY BE PROVIDED AS REQUIRED, FOR ALL APPLICATIONS
(A) FOR ESS APPLICATIONS, PROVIDE LISTS AS FOLLOWS: LISTS 3, 17, 21 AND B, PROVIDE LISTS 4, 5, 6, 7, 8, 9, 26, 27, 36, 38, A, D, E AND F AS REQUIRED.
(B) FOR OTHER THAN ESS APPLICATIONS, PROVIDE LISTS AS REQUIRED.

68-WHEN LIST Y IS USED FOR FIELD MODIFICATION SEE J86470G-1 NOTE 56 FOR INFORMATION ON ADDING THE 23A FUSE BLOCK FOR THE RELOCATION OF RC5 TO RC7 FUSES OF J86470G-1.

69-WHEN THE FIRST RECTIFIER PER J87439A, J872516, H OR K, IS PROVIDED AS PART OF THE POWER PLANT, PROVIDE LIST AN ACCORDINGLY. LIST AN PROVIDES ONE "CBS" FUSE WHICH IS REQUIRED, ONE PER POWER PLANT.

70-IF ADDITIONAL GROUND TERMINATIONS ARE REQUIRED FOR 14 GAUGE LEADS OR SMALLER, ENGINEER MAY FURNISH ADDITIONAL P-406732 TERMINAL STRIP (TO BE MOUNTED ON REAR OF P-40X732 GROUND BAR USING SAME MOUNTING HOLES). PROVIDE 5, P-210648 SCREWS, 5, P-284148 WASHERS AND 5, P-206518 NUTS ON A JOB BASIS. (FOR FIELD MOD PRIOR TO ISSUE 20).

71-200 AMPERE RECTIFIERS SHALL BE ORDERED PER LISTS ON J87261H SPEC (SEE T-81613-30, FIG. 56).

72-FUSE PANELS ORDERED PER LISTS 5 THROUGH 10 CANNOT BE MOUNTED IN POSITION 18 11 IN THE SUPPLEMENTARY BAY. ONLY A LIST 4 FUSE PANEL OR LIST F BLANK PANEL MAY BE MOUNTED IN THESE POSITIONS.

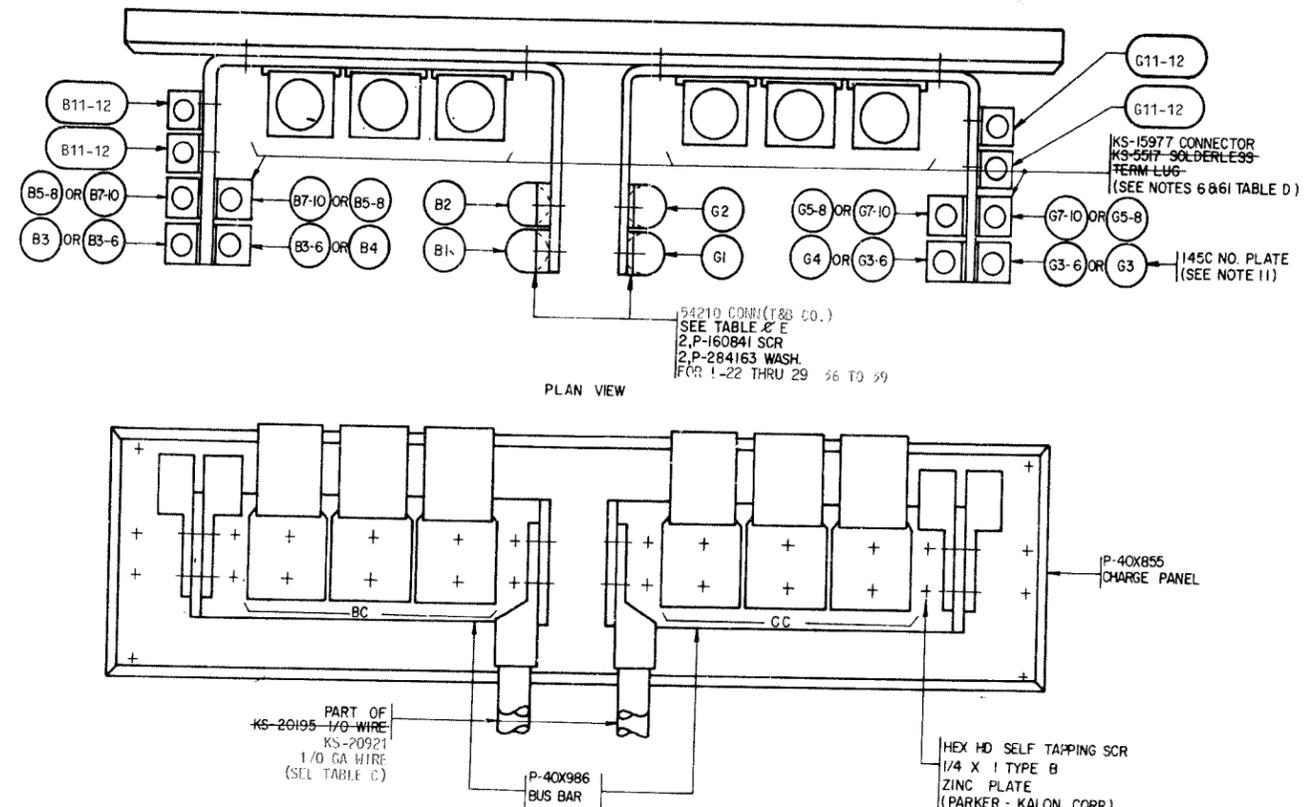
73-100 AMPERE RECTIFIERS PER KS-20493 & CHARGE FUSE PANEL PER ED-82313-30 SHALL BE ORDERED ON A JOB BASIS. (SEE T-81613-30 FIG 62 & 63).

74-WHEN ANY SUPPLEMENTARY LISTS ARE ADDED TO THE UNITS IN THE FIELD, THE JOB ENGINEER SHALL REFER TO OFFICE RECORDS TO DETERMINE WHICH IS ALREADY FURNISHED. IF NOT,

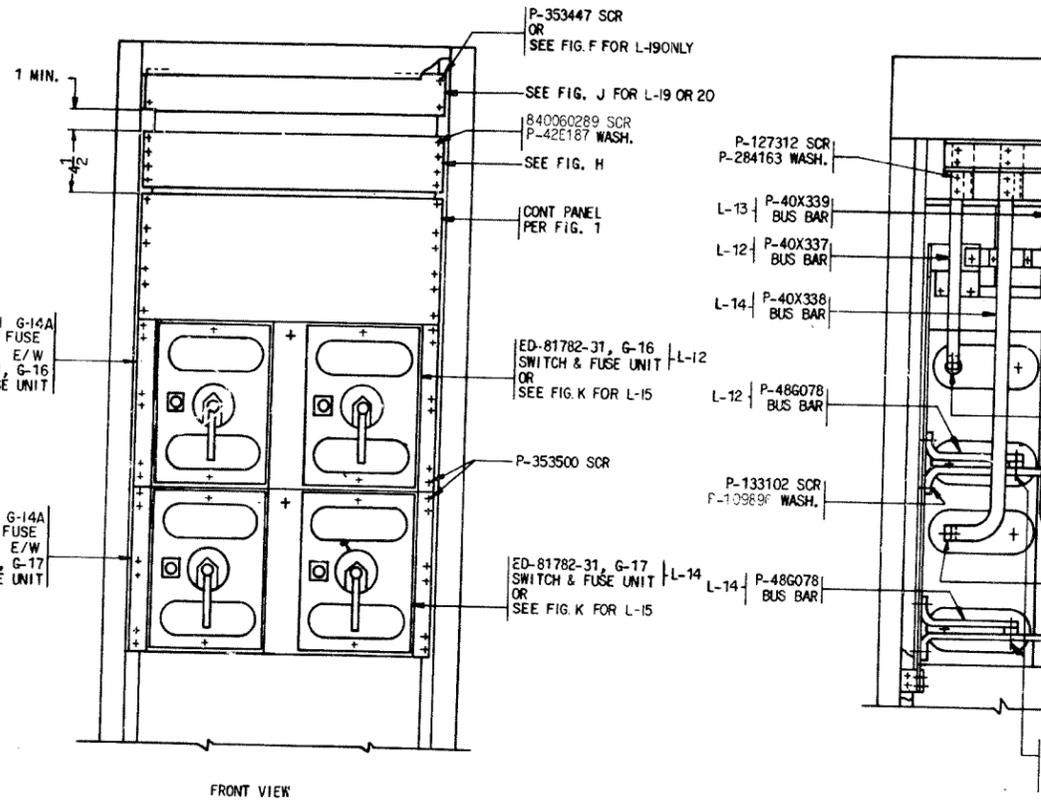
TABLE A (CONTINUATION)																	
COL	A	B	C	D	E	F	G	H	I								
										EQUIPMENT	RATING	LIST	NO.	CIRCUITS AND FIGURES EQUIPPED			
														CKT	FIG	WRG	APP
		DA	Z	I	J87223C-2	L-E											
	ALWAYS REQUIRED IN ADDITION TO LIST 26 OR 28 TO PREVENT OPERATION OF THE RFA-2 AND TR RELAYS WHEN THE HV AND TR LEADS ARE MULTIPLIED TO OTHER RECTIFIERS AND THE CONTROL FUSE IS REMOVED.																
		DA	AA	I	J87223D-2	L-E											
	ALWAYS REQUIRED IN ADDITION TO LIST 27 OR 29 TO PREVENT OPERATION OF THE RFA-2 AND TR RELAYS WHEN THE HV AND TR LEADS ARE MULTIPLIED TO OTHER RECTIFIERS AND THE CONTROL FUSE IS REMOVED.																
		DA	AB	I	J87223C-2	L-F											
	ALWAYS REQUIRED IN ADDITION TO LIST 26 OR 28 TO INSURE THE OPERATION OF THE RFA LAMP WHEN THERE IS AN OPERATED F3, F4 OR F5 FUSE.																
		DA	AC	I	J87223D-2	L-F											
	ALWAYS REQUIRED IN ADDITION TO LIST 27 OR 29 TO INSURE THE OPERATION OF THE RFA LAMP WHEN THERE IS AN OPERATED F3, F4 OR F5 FUSE.																
		DA	AD	I	J87223C-2	L-G											
	WIRING AND APPARATUS REQUIRED IN ADDITION TO LIST 22, 24, 26 OR 28 TO PREVENT OPERATION OF THE RFA-2 AND TR RELAYS WHEN THE HV AND TR LEADS ARE MULTIPLIED TO OTHER RECTIFIERS AND THE CONTROL FUSE IS REMOVED. (FIELD MODIFICATION)																
		DA	AE	I	J87223D-2	L-G											
	WIRING AND APPARATUS REQUIRED IN ADDITION TO LIST 23, 25, 27 OR 29 TO PREVENT OPERATION OF THE RFA-2 AND TR RELAYS WHEN THE HV AND TR LEADS ARE MULTIPLIED TO OTHER RECTIFIERS AND THE CONTROL FUSE IS REMOVED. (FIELD MODIFICATION)																
		DA	AF	I	J87223C-2	L-H											
	WIRING AND APPARATUS REQUIRED IN ADDITION TO LIST 22, 24, 26 OR 28 TO INSURE THE OPERATION OF THE RFA LAMP WHEN THERE IS AN OPERATED F3, F4 OR F5 FUSE. (FIELD MODIFICATION)																
		DA	AG	I	J87223D-2	L-H											
	WIRING AND APPARATUS REQUIRED IN ADDITION TO LIST 23, 25, 27 OR 29 TO INSURE THE OPERATION OF THE RFA LAMP WHEN THERE IS AN OPERATED F3, F4 OR F5 FUSE. (FIELD MODIFICATION)																
		DA	AH	I	J86470G-1	L-U											
	ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE A "CBS" FUSE. (SEE NOTE 69)																
		DA	AJ	I	J87437A-1	L-WC											
	REQUIRED IN ADDITION TO LIST 36 OR 37 FOR USE WITH 208V AC SERVICE																
		DA	AK	I	J87437A-1	L-WD											
	REQUIRED IN ADDITION TO LIST 36 OR 37 FOR USE WITH 240V AC SERVICE																
		DA	AL	I	J86470G-1	L-WH											
	REQUIRED IN ADDITION TO LIST 1 OR 2 FOR CONNECTION FROM STORED PROGRAM CONTROL SYSTEM (SPCS) OFFICE ALARM CIRCUIT ARRANGED TO ACCEPT "BD" LEAD (BATTERY DISCHARGING ALARM INDICATIONS)																
		DA	AM	I	J86470G-1	L-Y, Z	ZT										
	ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE A CIRCUIT IMPROVEMENT IN LIGHTING THE "FA" AND "ALM" LAMPS.																
		DA	AN	I	J86470G-1	L-AC											
	REQUIRED FOR LIST 1 TO PROVIDE ALARMS IN EVENT OF A REG FUSE FAILURE																
		DA	AP	I	J86470G-1	L-AD											
	REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN LOOP CLOSURE OF "BD" AND "BDR" LEADS (BATTERY DISCHARGING ALARM INDICATIONS) ARE REQUIRED IN A STORED PROGRAM CONTROL SYSTEM (SPCS) OFFICE.																
		DA	AQ	I	J86470G-1	L-AE											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 43 TO PROVIDE TWO GJ2-ZIO TYPE CIRCUIT BREAKERS WITH																
		DA	AR	I	J87437A-1	L-1, 3, C, D, WA											
			AS	I	J87437A-1	L-1, 3, C, D, WA											
			AT	I	J87437A-1	L-1, 3, C, D, WA											
			AU	I	J87437A-1	L-1, 3, C, D, WA											
			AV	I	J87437A-1	L-1, 3, C, D, WA											
			AW	I	J87437A-1	L-1, 3, C, D, WA											
			AX	I	J87437A-1	L-1, 3, C, D, WA											
			AY	I	J87437A-1	L-1, 3, C, D, WA											
			AZ	I	J87437A-1	L-1, 3, C, D, WA											
			BA	I	J87437A-1	L-1, 3, C, D, WA											
			BB	I	J87437A-1	L-1, 3, C, D, WA											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 3. PROVIDES ONE NEGATIVE 48 VOLT, 100 AMPERE RECTIFIER FOR NEGATIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLTS 3 PHASE 60HZ																
		DA	36	I	J87437A-1	L-1, 3, C, D, WA											
		DA	37	I	T-81613-30	L-1, 3, C, D, WA											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 2 PROVIDES ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLTS 3 PHASE 60HZ																
		DA	38	I	J87437A-1	L-1, 3, C, D, WA											
		DA	39	I	T-81613-30	L-1, 3, C, D, WA											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 3. PROVIDES ONE NEGATIVE 48 VOLT, 100 AMPERE RECTIFIER FOR NEGATIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLTS 3 PHASE 60HZ																
		DA	40	I	J87437A-1	L-1, 3, C, D, WA											
		DA	41	I	T-81613-30	L-1, 3, C, D, WA											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 2 PROVIDES ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLTS 3 PHASE 60HZ																
		DA	42	I	J87437A-1	L-1, 3, C, D, WA											
		DA	43	I	T-81613-30	L-1, 3, C, D, WA											
	EQUIPMENT AND WIRING REQUIRED TO PROVIDE A LOW VOLTAGE MONITOR AND DISCONNECT PANEL, 9 INCHES HIGH, ARRANGED TO MOUNT TWO GJ2-ZIO TYPE CIRCUIT BREAKERS, 125 TO 250 AMPERE CAPACITY (DMS-10) (SEE NOTES 76 & 78)																
		DA	43	I	T-81613-30	L-1, 3, C, D, WA											

TABLE A (CONTINUATION)																	
COL	A	B	C	D	E	F	G	H	I								
										EQUIPMENT	RATING	LIST	NO.	CIRCUITS AND FIGURED EQUIPPED			
														CKT	FIG	WRG	APP
	EQUIPMENT REQUIRED IN ADDITION TO LIST 2. PROVIDES A CHARGE FUSE PANEL AND ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 480 VOLT, 3 PHASE, 60 HERTZ.	MFR DISC	25	1	T-81756-31	4A											
				1	J87223D-2	L-2, WA											
				1	T-81613-30	41											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 3 PROVIDES A CHARGE FUSE PANEL AND ONE NEGATIVE 48 VOLT, 100 AMPERE RECTIFIER FOR NEGATIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLT, 3 PHASE 60 HERTZ.	MFR DISC	26	1	J87223C-2	L-5											
				1	T-81613-30	38											
				1	T-81756-31	4A											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 3 PROVIDES A CHARGE FUSE PANEL AND ONE NEGATIVE 48 VOLT, 100 AMPERE RECTIFIER FOR NEGATIVE PLANT OPERATION WITH AN AC INPUT OF 480 VOLT, 3 PHASE 60 HERTZ.	MFR DISC	27	1	T-81756-31	4A											
				1	J87223D-2	L-5											
				1	T-81613-30	40											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 2. PROVIDES A CHARGE FUSE PANEL AND ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLT 3 PHASE 60 HERTZ.	MFR DISC	28	1	T-81756-31	4A											
				1	J87223D-2	L-5, WA											
				1	T-81613-30	39											
	EQUIPMENT REQUIRED IN ADDITION TO LIST 2. PROVIDES A CHARGE FUSE PANEL AND ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 480 VOLT, 3 PHASE, 60 HERTZ.	MFR DISC	29	1	T-81756-31	4A											
				1	J87223D-2	L-5, WA											
				1	T-81613-30	41											
	WIRING AND APPARATUS FOR FIELD MODIFICATION OF RECTIFIER TO PROVIDE GRADUAL INCREASE IN OUTPUT CURRENT (SEE NOTE 66)	DA	30	1	J87223C-2	L-6											
		DA	31	1	J87223D-2	L-6											
	TO MODIFY LIST 22 OR 24																
	TO MODIFY LIST 23 OR 25																
	END COVERS FOR ENCLOSING EITHER END OF CABINET AND FRAMEWORK PROVIDED IN LIST 1, 2 OR 3.	DA	A														
	BUS BAR REQUIRED IN ADDITION TO LIST 3 WHEN SUPPLEMENTARY FUSE PANELS OR CIRCUIT BREAKER PANEL ARE PROVIDED. (SEE NOTE 57)	DA	B	1	T-81613-30	1B											
	REQUIRED IN ADDITION TO LIST 3 FOR POSITIVE 48 VOLT PLANT OPERATION.	MFR DISC	C	1	T-81613-30	(3)	Y OMIT X										
	ADAPTERS REQUIRED IN ADDITION TO LIST 22 TO 25 26 TO 29 WHEN "G-2" OR "G-4" RECTIFIER IS PROVIDED	MFR DISC	D														
	BLANK PANEL TO BE FURNISHED (AS REQUIRED) IN ADDITION TO LISTS 1, 2 OR 3 FOR UNEQUIPPED FUSE PANEL POSITIONS (SEE NOTE 63)	DA	E														
	6 INCHES HIGH																
	3 INCHES HIGH	DA	F														
	ALWAYS REQUIRED IN ADDITION TO LIST 22 OR 24. PROVIDES RECTIFIER LIGHTNING PROTECTION.	MFR DISC	G	1	J87223C-2	L-A											
	ALWAYS REQUIRED IN ADDITION TO LIST 23 OR 25. PROVIDES RECTIFIER LIGHTNING PROTECTION.	MFR DISC	H	1	J87223D-2	L-A											
	ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE IMPROVED ALARM FEATURES.	DA	J	1	J86470G-1	L-E											
	EQUIPMENT TO BE FURNISHED AS REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN DISCHARGE LOAD WILL BE BELOW 400 AMPERES.	DA	K	1	J86470G-1	L-F											
	FURNISH IN ADDITION TO LIST 22 OR 24 TO MODIFY RECTIFIER FOR IMPROVED CURRENT REGULATION. (FIELD MODIFICATION ONLY)	DA	L	1	J87223C-2	L-C											
	FURNISH IN ADDITION TO LIST 23 OR 25 TO MODIFY RECTIFIER FOR IMPROVED CURRENT REGULATION. (FIELD MODIFICATION ONLY)	DA	M	1	J87223D-2	L-C											
	ALWAYS REQUIRED IN ADDITION TO LIST 22 OR 24 TO PROVIDE IMPROVED CURRENT REGULATION.	MFR DISC	N	1	J87223C-2	L-B											
	ALWAYS REQUIRED IN ADDITION TO LIST 23 OR 25 TO PROVIDE IMPROVED CURRENT REGULATION.	MFR DISC	P	1	J87223D-2	L-B											
	REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN LOOP CLOSURE OF ALARMS IS	DA	S	I	J86470G-1	WC											
	REQUIRED	DA	T	I	J86470G-1	WD											
	NOT REQUIRED																
	ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE A REDUNDANT BATTERY SUPPLY FOR FUSE ALARM LAMPS.	MFR DISC	U	1	J86470G-1	L-H											
	ALWAYS REQUIRED IN ADDITION TO LIST 1 TO PROVIDE ALARMS IN THE EVENT OF A REG FUSE FAILURE.	DA	V	1	J86470G-1	L-M											
	ALWAYS REQUIRED IN ADDITION TO LIST 2 TO PROVIDE ALARMS IN THE EVENT OF A REG FUSE FAILURE.	DA	W	1	J86470G-1	L-N											
	ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE ADDITIONAL REG FUSE POSITIONS.	DA	X	1	J86470G-1	L-P											
	ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO ALARM THE "REG" FUSE. (SEE NOTE 68)	DA	Y	1	J86470G-1	L-S											
	REQUIRED IN ADDITION TO LIST 3 FOR POSITIVE																

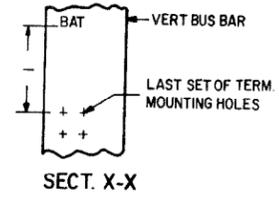
TABLE A																	
COL	A	B	C	D	E	F	G	H	I								
										EQUIPMENT	RATING	LIST	NO.	CIRCUITS			
														CKT	FIG	WRG	APP
	INITIAL CHARGE AND DISCHARGE BAY CONSISTING OF A CABINET ASSEMBLY WITHOUT END COVERS (7'-0" HIGH) EQUIPPED WITH A CONTROL UNIT, AN ALARM MULTIPLE LAMP, AND DISCHARGE BUS BAR ARRANGED FOR (SEE NOTE 58)	DA	1	1	T-81613-30	2, 6											
	NEGATIVE 48V OPERATION (POSITIVE GROUND)			1	J86470G-1	L-3, WA											
	POSITIVE 48V OPERATION (NEGATIVE GROUND)	DA	2	1	T-81613-30	2, 7											
				1	J86470G-1	L-4, WA											
	SUPPLEMENTARY BAY CONSISTING OF A CABINET ASSEMBLY WITHOUT END COVERS (7'-0" HIGH) EQUIPPED WITH ONE ALARM MULTIPLE LAMP AND CHARGE AND DISCHARGE CIRCUIT AND ARRANGED FOR NEGATIVE PLANT OPERATION. (SEE NOTE 57)	DA	3	1	T-81613-30	3											
	DISCHARGE FUSE PANEL 3 INCHES HIGH WITH MOUNTINGS FOR TWENTY-TWO 70 TYPE FUSES (SEE NOTE 52)	DA	4	1	T-81613-30	21											
	DISCHARGE FUSE PANEL 6 INCHES HIGH WITH MOUNTINGS FOR (SEE NOTE 52 & 72)																
	EIGHT 1 TO 30 AMPERE FUSES		5	1	T-81613-30	30											
	EIGHT 31 TO 60 AMPERE FUSES		6	1	T-81613-30	31											
	FOUR 1 TO 30 AMPERE AND FOUR 31 TO 60 AMPERE FUSES	DA	7	1	T-81613-30	32											
	THREE 1 TO 30 AMPERE AND TWENTY-FOUR 70 TYPE FUSES	DA	8	1	T-81613-30	33											
	DISCHARGE FUSES PANEL 9 INCHES HIGH WITH MOUNTINGS FOR (SEE NOTE 52 & 53 & 72)																



REAR VIEW
(LIST 16)
FIG. A

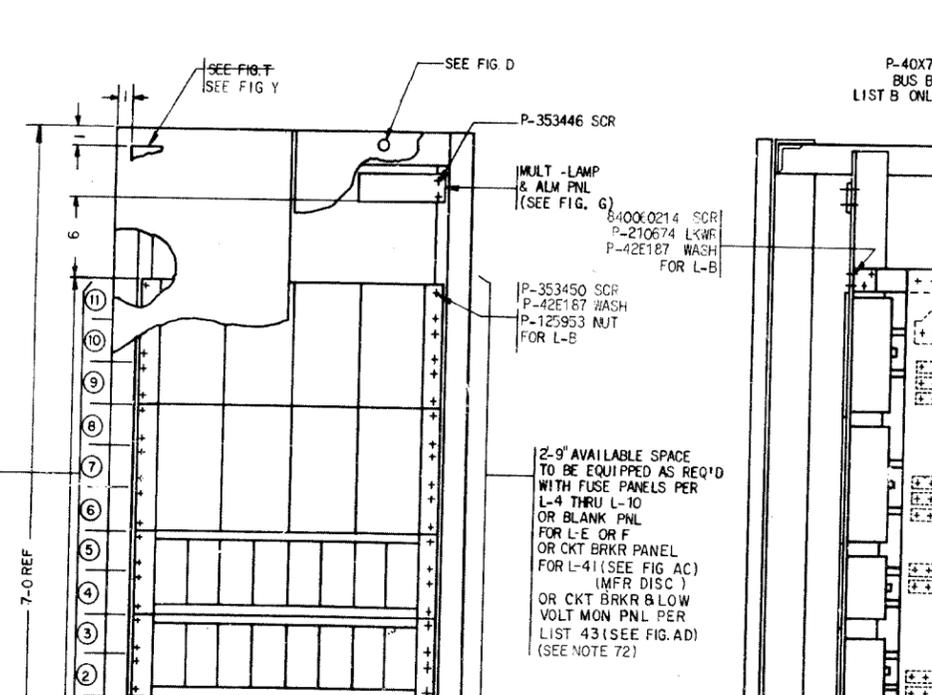
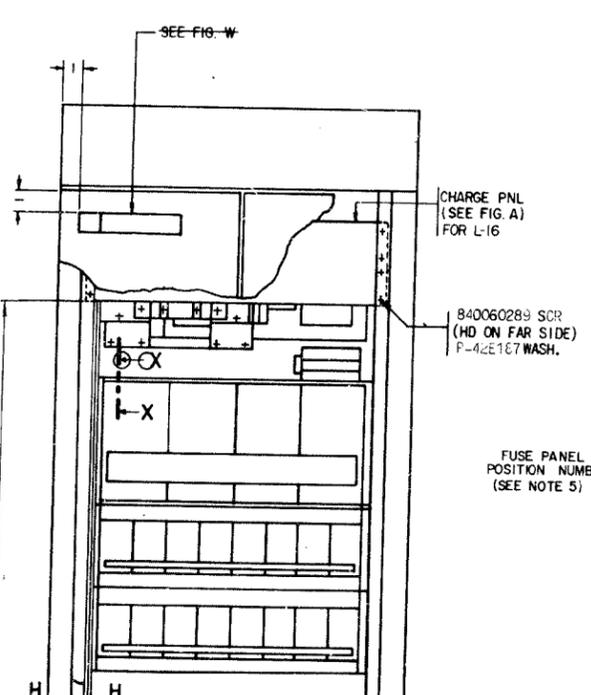
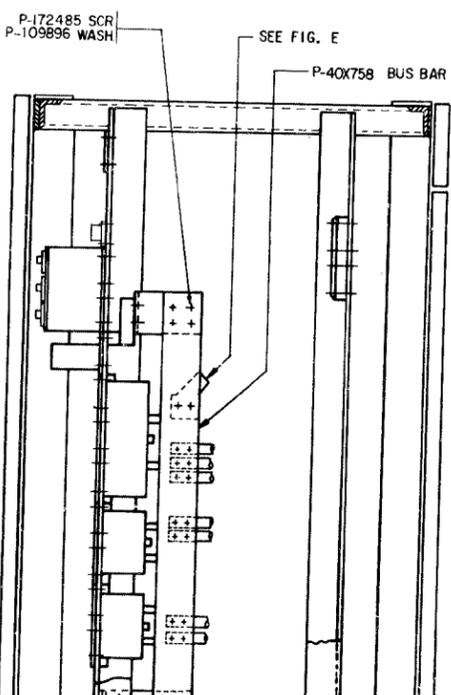
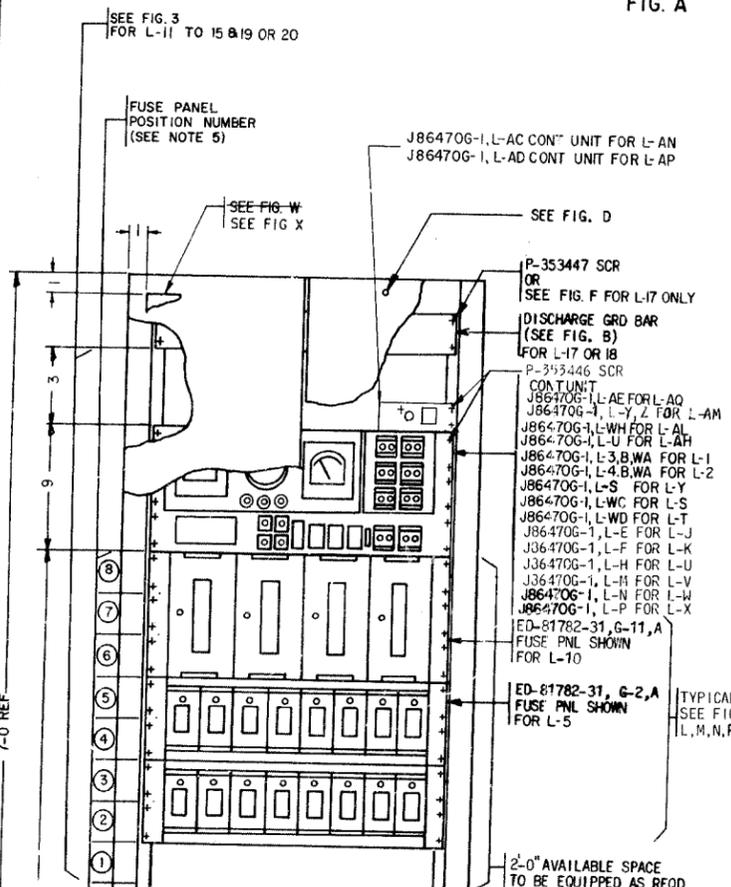


FRONT VIEW



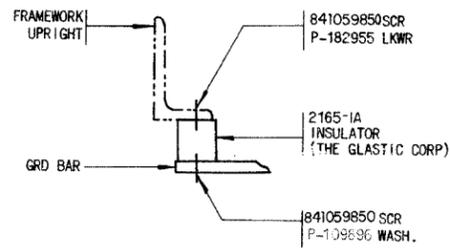
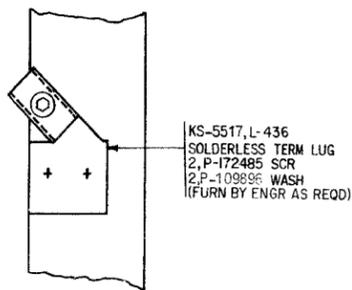
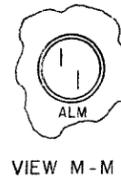
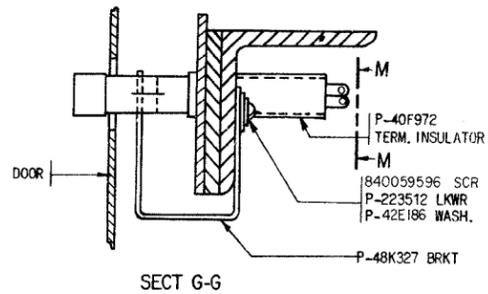
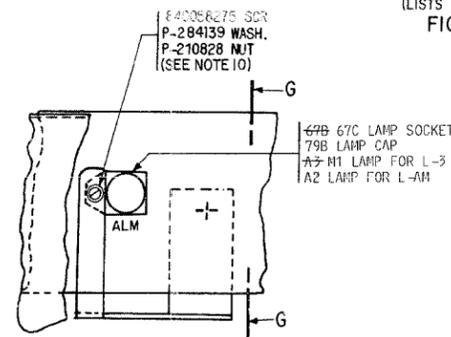
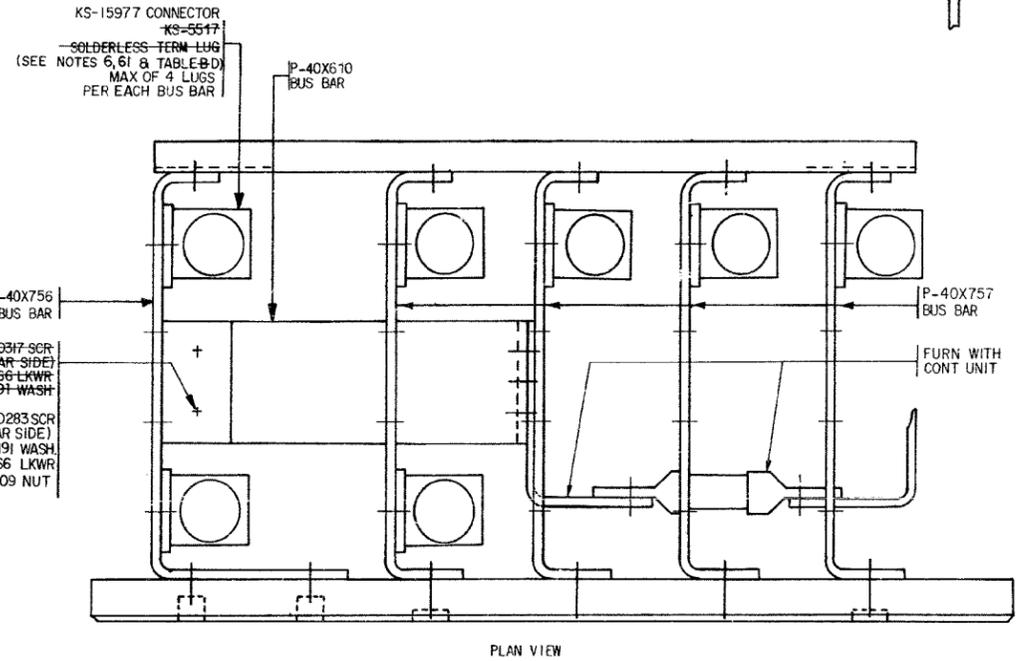
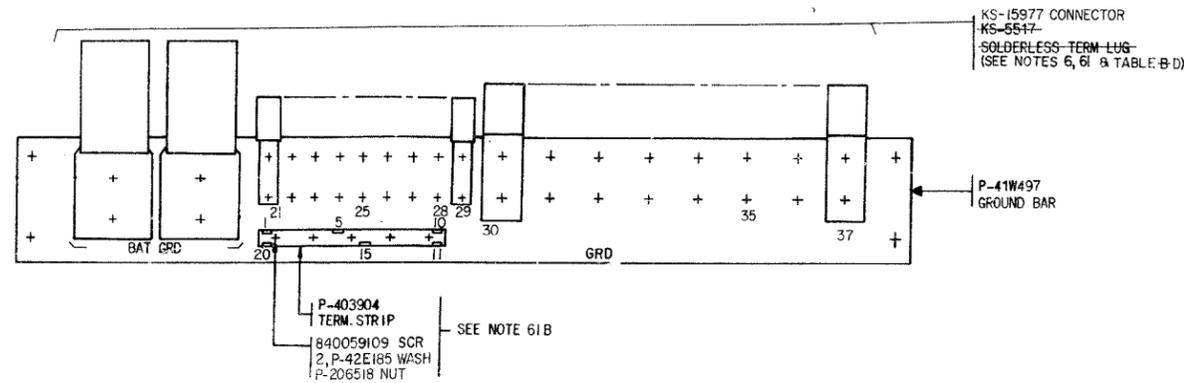
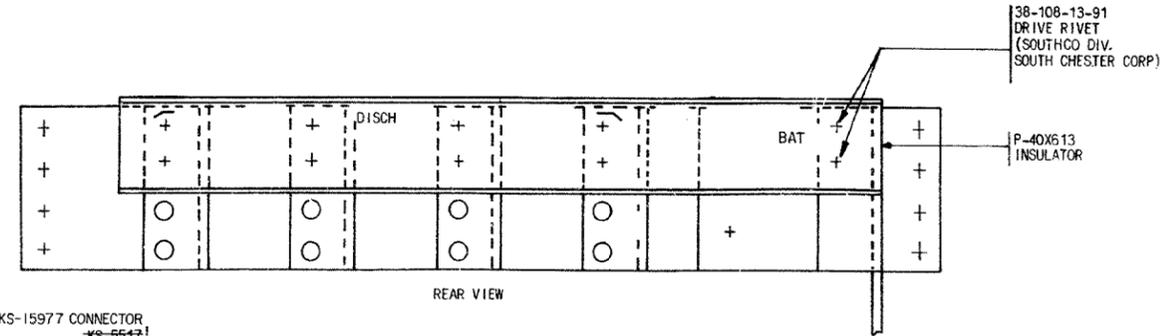
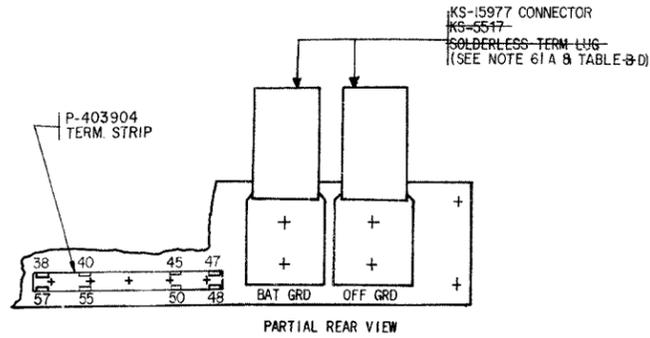
SECT. X-X

(LIST 11,12,13,14,15,19 OR 20)
FIG. 3
(OTHERWISE SAME AS FIG. 1)

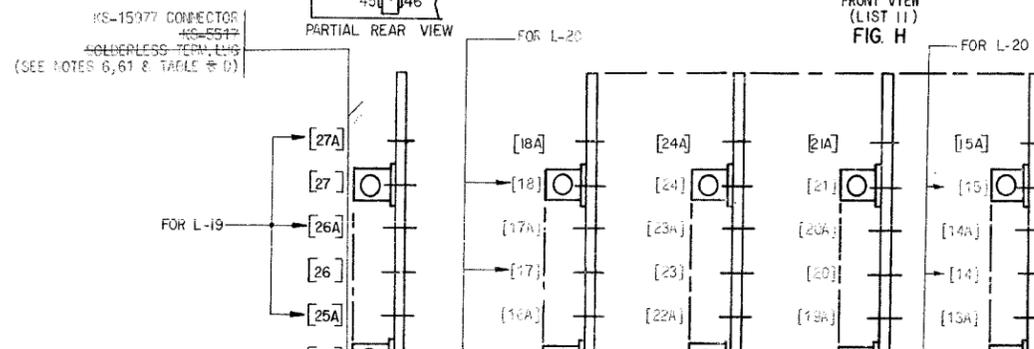
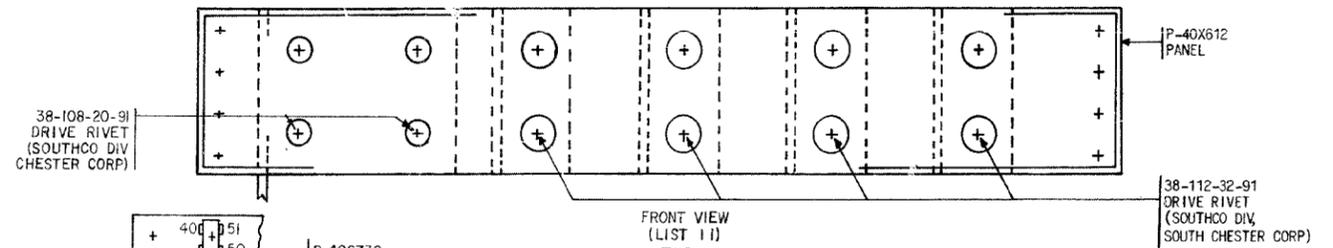


P-40X758
BUS BAR
LIST B ONLY

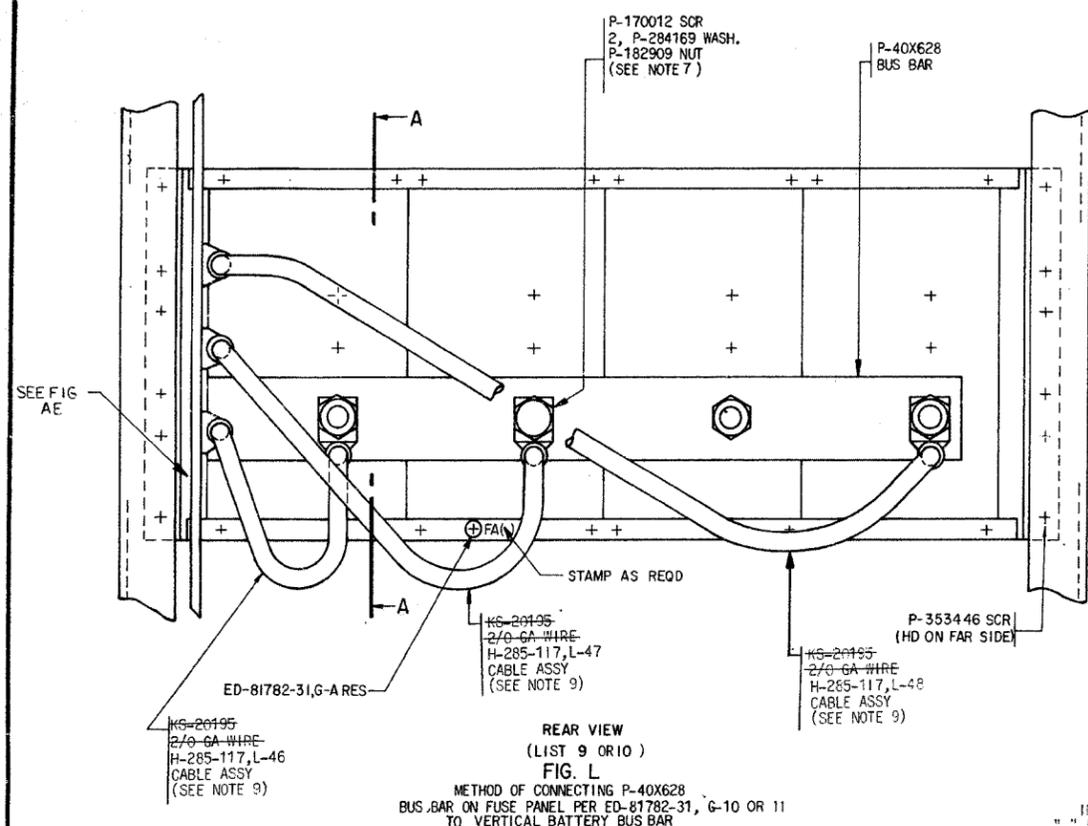
TABLE B (MFR DISC)			
LEAD SIZE	TERMINAL LUG	MTG MATERIAL FOR ONE LUG	MTG MATERIAL FOR TWO LUGS
1/0 - 4/0	KS-5517, L-5	2, P-108511 SCR 2, P-284163 WASH.	2, P-147285 SCR 4, P-284163 WASH. 2, P-182907 NUT
250,000 - 300,000	KS-5517, L-7		
350,000 - 500,000	KS-5517, L-9		
600,000 - 700,000	KS-5517, L-10	2, P-125775 SCR 2, P-284163 WASH.	2, P-146273 SCR 4, P-284163 WASH.
750,000 - 800,000	KS-5517, L-11	2, P-127312 SCR 2, P-284163 WASH.	2, P-182907 NUT



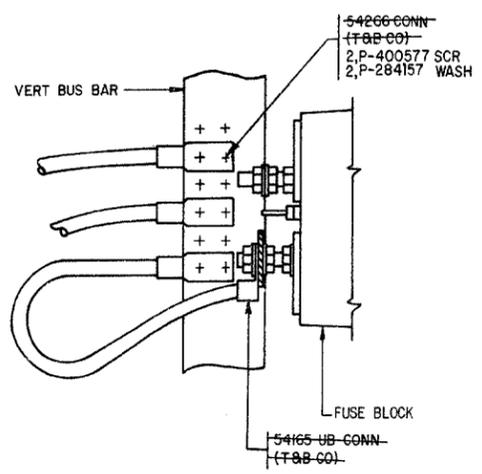
METHOD OF INSULATING DISCHARGE GRD BAR (LIST 17 & 19) (SEE NOTE 7) FIG. F



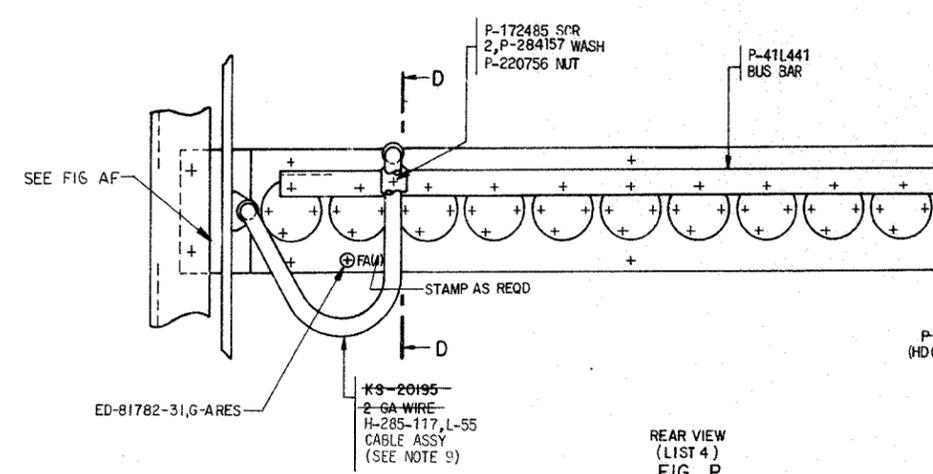
47.5
32



REAR VIEW
(LIST 9 OR 10)
FIG. L
METHOD OF CONNECTING P-40X628
BUS BAR ON FUSE PANEL PER ED-81782-31, G-10 OR 11
TO VERTICAL BATTERY BUS BAR



SECT. A-A



REAR VIEW
(LIST 4)
FIG. P
METHOD OF CONNECTING P-41L441
BUS BAR ON FUSE PANEL PER ED-81782-31, G-1
TO VERTICAL BATTERY BUS BAR

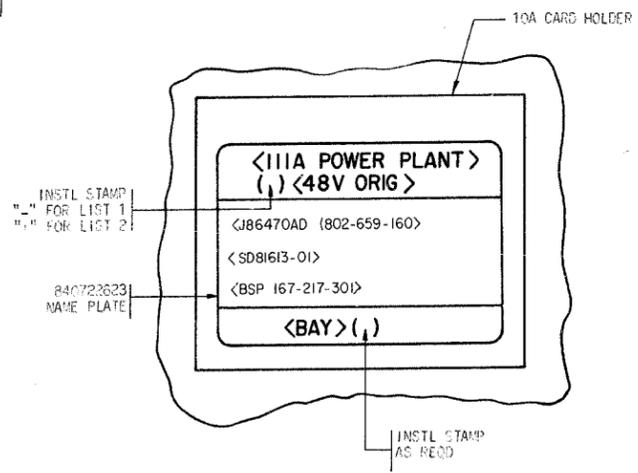


FIG. X

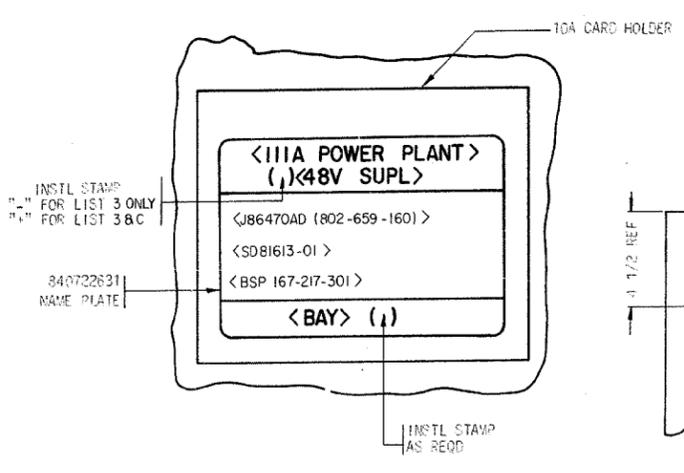
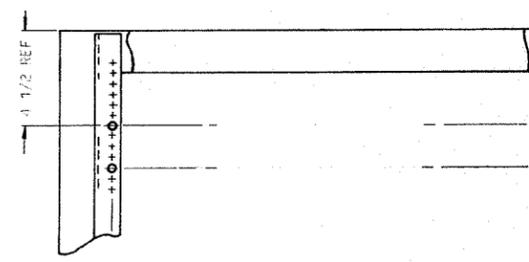
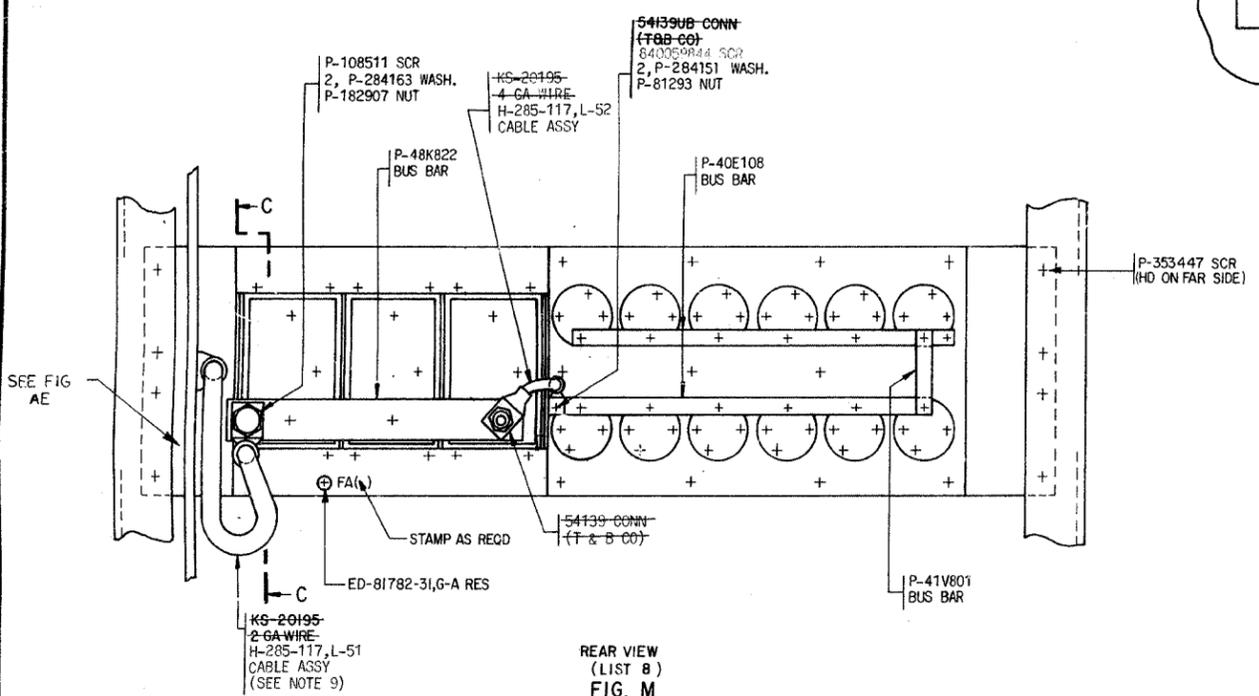


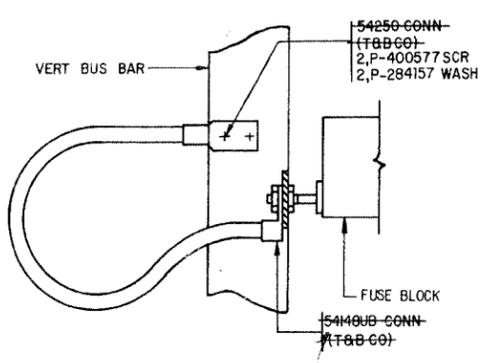
FIG. Y



FRONT VIEW
MODIFICATION OF ED-82114-50, G-1 CABINET ASSY
MODIFICATION OF CABINET ASSY FOR L-1
OR 2 WHEN L-17 IS SPECIFIED CONSISTS
OF REDRILLING 4, 216-24 TAPPED HOLES
IN FRAMEWORK UPRIGHTS TO .2969 DIA
CLEAR HOLES
FIG. Q



REAR VIEW
(LIST 8)
FIG. M
METHOD OF CONNECTING P-48X822
BUS BAR ON FUSE PANEL PER ED-81782-31, G-6
TO VERTICAL BATTERY BUS BAR



SECT. C-C

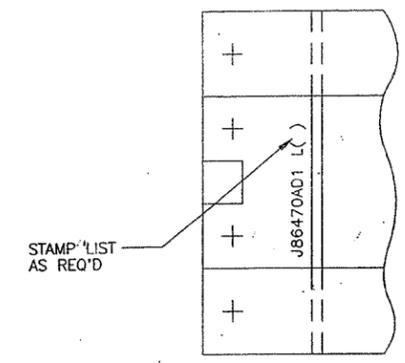
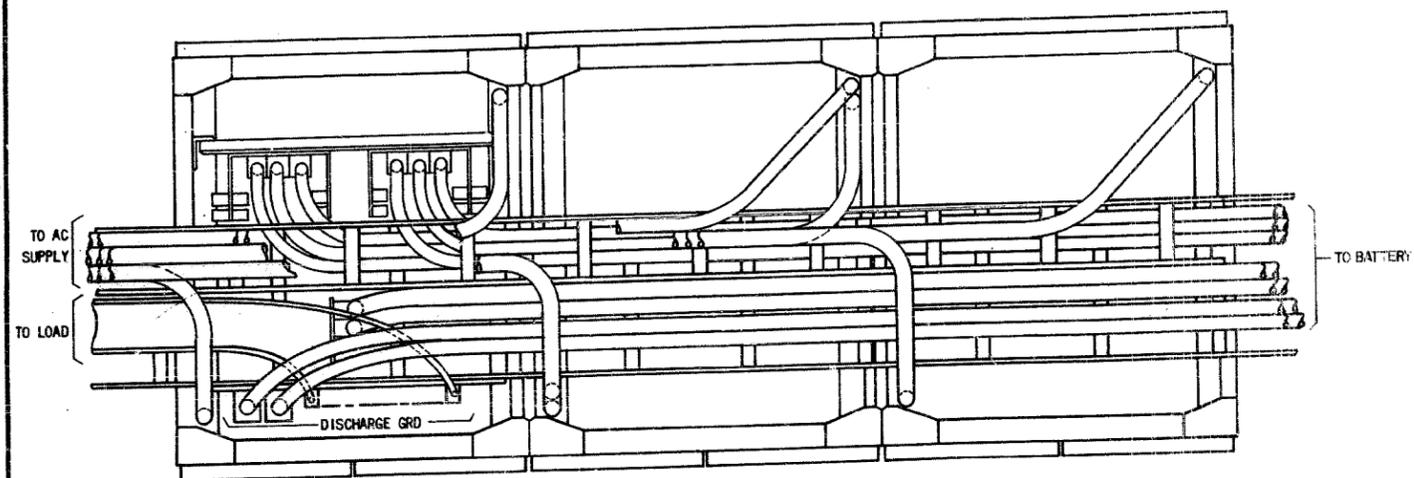
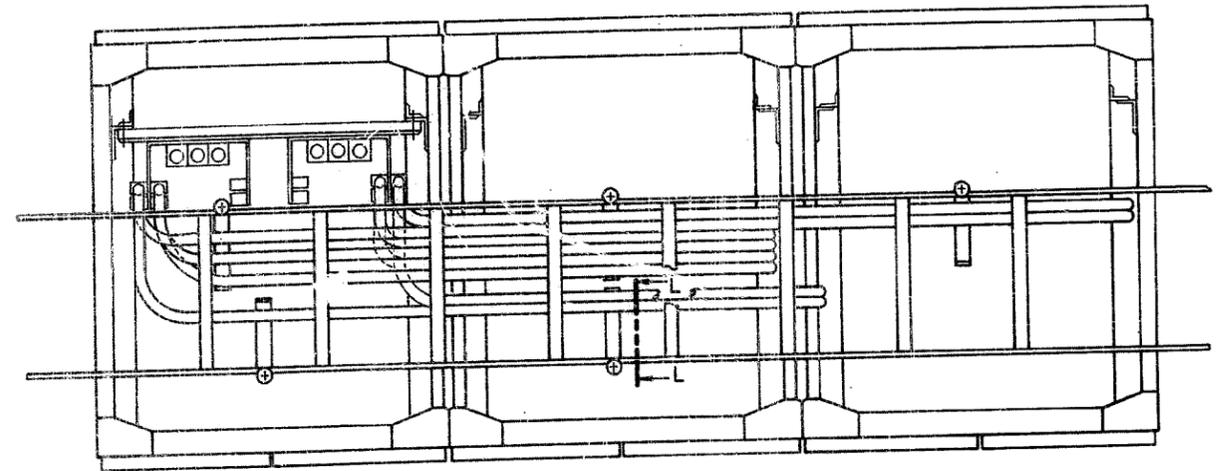


FIG. AE

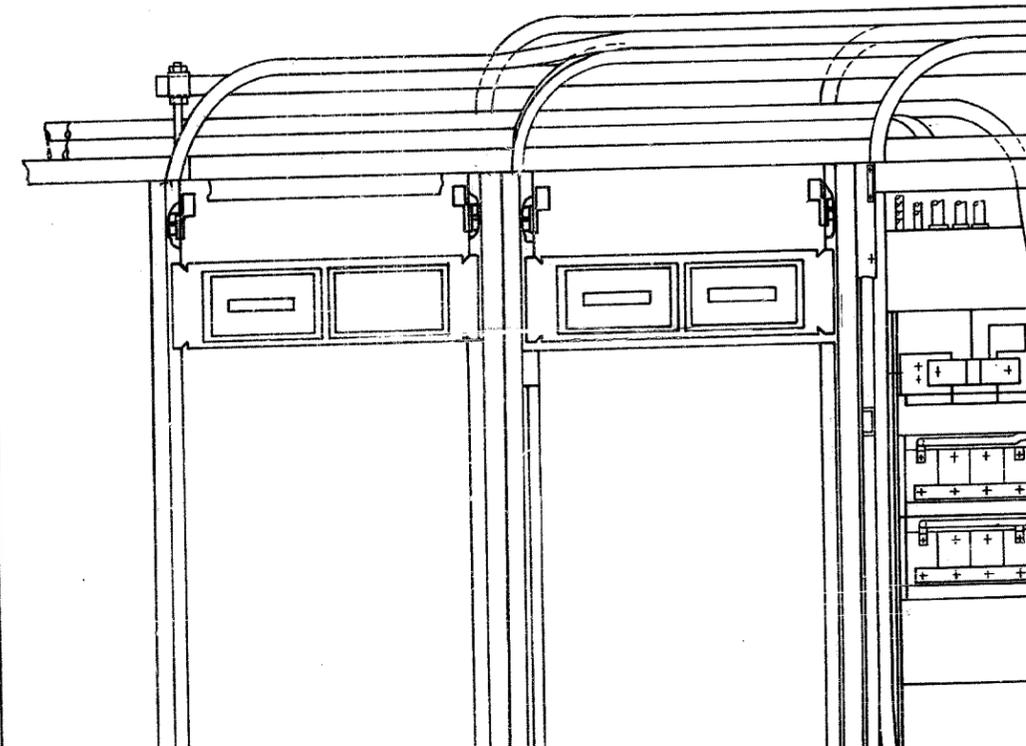
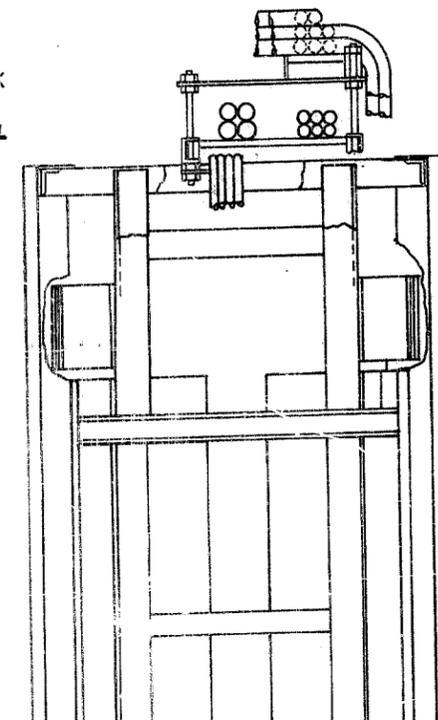
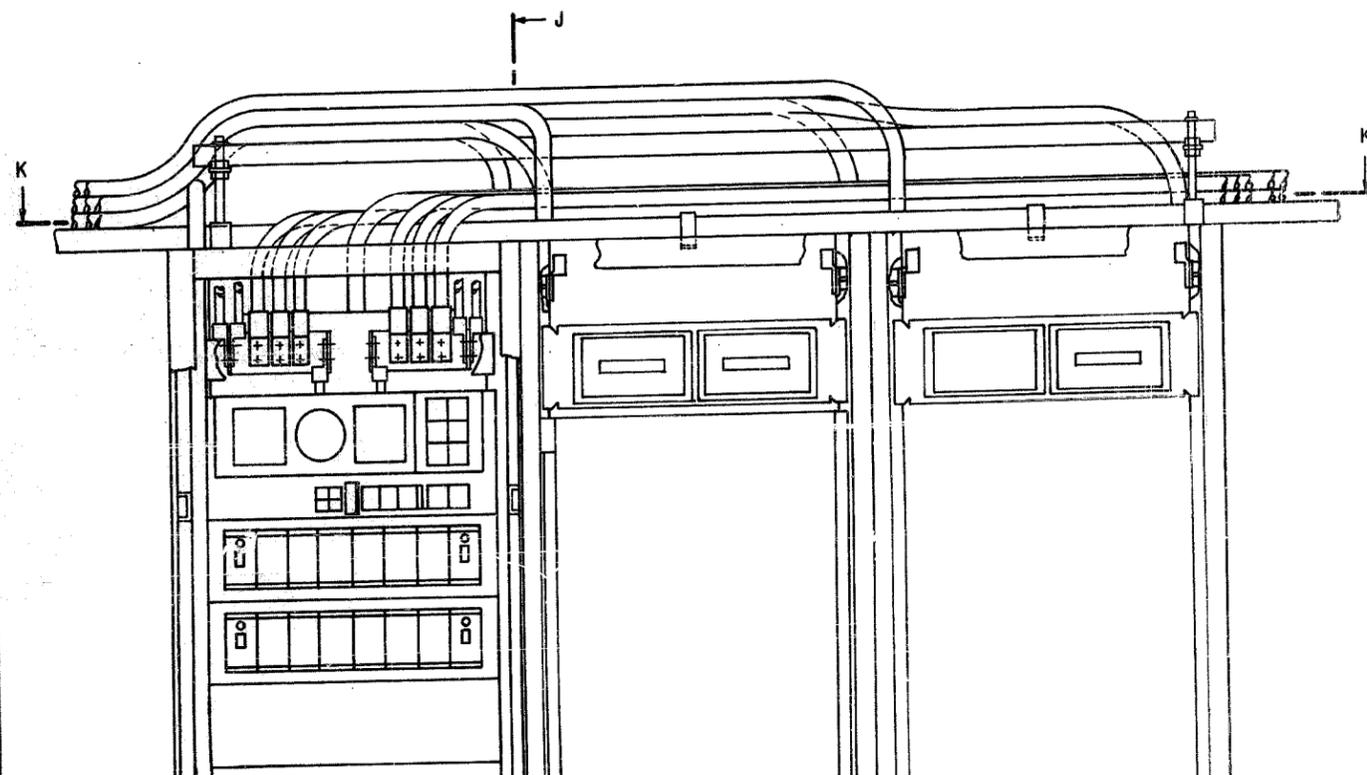
47.5
32



PLAN VIEW



VIEW K-K



AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
1,2,3	1	ED-82114-50	G-1 FRAMEWORK			101
1,2,3	1	ED-82114-50	G-7 FRONT DOORS	S		
1,2,3	1	ED-82114-50	G-10 REAR DOORS	S		
21	2	ED-82114-50	G-11 LATCH ASSEMBLY	S		
A	1	ED-82114-50	G-12 END COVERS	S		105
J	1	J864706-1	L-E EQUIPMENT			
1	1	J864706-1	L-3,B,WA CONTROL UNIT			110
1	1	J864706-1	L-4,B,WA CONTROL UNIT			
K	1	J864706-1	L-F EQUIPMENT			
22	1	J87223C-2	L-2 RECTIFIER			
23	1	J87223D-2	L-2			
24	1	J87223C-2	L-2,WA			115
25	1	J87223D-2	L-2,WA			
G	1	J87223C-2	L-A RECTIFIER EQUIPMENT	14		
H	1	J87223D-2	L-A	14		
4	1	ED-81782-31	G-1 FUSE PANEL E/W FIG. P			120
4	1	ED-81782-31	G-A RESISTOR (MOUNTED IN POS 1)			
4	1	P-41L441	BUS BAR			
4	1	H-285-117	L-55 CABLE ASSEMBLY			9
4	1FT	KS-20195	2 GAUGE WIRE			
4	1		54250 CONNECTOR			
4	1		54160B CONNECTOR (T & B CO)			
4	4	P-353447	SPL RHM SCR .216-24 X 1/2			130
4	1	P-172485	HEX HD CAP SCR .250-20 X 5/8			
4	2	P-400577	HEX HD CAP SCR .250-20 X 1/2			
4	2	P-284157	WASHER .276 X .515 X .056			135
4	2	P-284157	WASHER .276 X .515 X .056			
4	1	P-220756	HEX NUT .250-20			
5	1	ED-81782-31	G-2 FUSE PANEL E/W FIG. N			
6	1	ED-81782-31	G-3			
7	1	ED-81782-31	G-4			
5,6,7	1	ED-81782-31	G-A RESISTOR (MOUNTED IN POS 2)			145
5,6,7	1	P-48K623	BUS BAR			
5	3FT	KS-20195	2/0 GAUGE WIRE			
6,7	6FT	KS-20195	2/0 GAUGE WIRE			150
6,7	2		54266 CONNECTOR			
6,7	2		54111UB			
5	1		54266			
5	1		54111UB (T & B CO)			155
5,6,7	1	H-285-117	L-49 CABLE ASSEMBLY			9
6,7	1	H-285-117	L-50 CABLE ASSEMBLY			9
5,6,7	8	P-353447	SPL RHM SCR .216-24 X 1/2			
5	2	P-400577	HEX HD CAP SCR .250-20 X 1/2			160
6,7	2	P-125775	HEX HD CAP SCR .375-16 X 7/8			
5	1	P-125775	HEX HD CAP SCR .375-16 X 7/8			
6,7	4	P-400577	HEX HD CAP SCR .250-20 X 1/2			
5	2	P-284157	WASHER .276 X .515 X .056			165
6,7	4	P-284163	WASHER .401 X .745 X .056			
5	2	P-284163	WASHER .401 X .745 X .056			
6,7	4	P-284157	WASHER .276 X .515 X .056			
6,7	2	P-182907	HEX NUT .375-16			
5	1	P-182907	HEX NUT .375-16			170
B	1	ED-81782-31	G-6 FUSE PANEL E/W FIG. M			175
B	1	ED-81782-31	G-A RESISTOR (MOUNTED IN POS 1)			
B	1	P-48K622	BUS BAR			
B	1	P-41V301	BUS BAR			
B	2	P-40E108	BUS BAR			180
0	1FT	KS-20195	4 GAUGE WIRE			
8	3FT	KS-20195	2 GAUGE WIRE			

AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
9	1	ED-81782-31	G-10 FUSE PANEL E/W FIG. L			221
10	1	ED-81782-31	G-11 FUSE PANEL			
9,10	1	ED-81782-31	G-A RESISTOR (MOUNTED IN POS 2)			
9,10	1	P-40X628	BUS BAR			225
9,10	6FT	KS-20195	2/0 GAUGE WIRE			230
9,10	3		54266 CONNECTOR			
9,10	3		54160B CONNECTOR (T & B CO)			
9,10	12	P-353446	SPL RHM SCR .216-24 X 3/8			235
9,10	6	P-400577	HEX HD CAP SCR .250-20 X 1/2			
9,10	1	P-170012	HEX HD CAP SCR .500-13 X 1 1/4			7
9,10	6	P-284157	WASHER .276 X .515 X .056			240
9,10	2	P-284169	WASHER .526 X 1.015 X .056			7
9,10	1	P-182909	HEX NUT .500-13			7
9,10	1	H-285-117	L-46 CABLE ASSEMBLY			9 245
9,10	1	H-285-117	L-47 CABLE ASSEMBLY			9
9,10	1	H-285-117	L-48 CABLE ASSEMBLY			9
11	1	ED-81782-31	G-14 SWITCH AND FUSE UNIT PANEL E/W			250
11,12	1	ED-81782-31	G-16 SWITCH AND FUSE UNIT			
11	1	ED-81782-31	G-A RESISTOR (MOUNTED IN POS 1)			
1,2,3	1	10A	CARD HOLLER			255
1,2	1	840722623	NAME PLATE			S
3	1	840722631	NAME PLATE			S
41	5 FT.	401289699	KS-20921 2 GAUGE WIRE			S
AQ	1	J864706-1	L-AE			260
V	1	J864706-1	L-M CONTROL UNIT			
W	1	J864706-1	L-N			
X	1	J864706-1	L-P			
Y	1	J864706-1	L-S			
AH	1	J864706-1	L-U			265
AL	1	J864706-1	L-WH			
AM	1	J864706-1	L-Y			
AM	1	J864706-1	L-Z			
AN	1	J864706-1	L-AC			
AP	1	J864706-1	L-AD			270
40	1	401574009	KS-20816 L-2 INVERTER			S
41	1	ED-82951-30	G-2 CIRCUIT BREAKER PANEL			
13	1	ED-81782-31	G-14 SWITCH AND FUSE UNIT PANEL E/W			275
13,14	1	ED-81782-31	G-17 SWITCH AND FUSE UNIT			
13	1	ED-81782-31	G-A RESISTOR (MOUNTED IN POS 1)			
15	1	P-48G076	BLANK PANEL			
15	2	841060205	PHM SCR .375-16 X 5/8			280
41	4	P-400577	HEX HD CAP SCR .250-20 X 1/2			
41	4	P-284157	WASHER .276 X .515 X .056			
40	6	997775788	885 TERMINAL (T & B CO)			S
41	2	995082757	KS-15977 L-63 CONN			285
41	2	996627253	54108UB TERMINAL (T & B CO)			
15	2	P-284163	WASHER .401 X .745 X .056			
15	2	P-182907	HEX NUT .375-16			290
16	1	P-40X855	CHARGE PANEL E/W FIG. A			295
16	2	P-40X986	BUS BAR			300
22,23,24,25	2	145C	NUMBER PLATE			

AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
11	1	P-40X612	PANEL E/W FIG. H			341
11	1	P-40X756	BUS BAR			
11	4	P-40X757	BUS BAR			
11	1	P-40X610	BUS BAR			
11	1	P-40X613	INSULATOR			345
11	10		38-108-13-91 DRIVE RIVET			
11	4		38-108-20-91			
11	8		38-112-32-91			350
11	2	P-210317	HEX HD CAP SCR .500-13 X 7/8			
11	2	P-170283	HEX HD CAP SCR .500-13 X 1 1/2			355
11	2	P-182909	HEX NUT .500-13			
11	4	P-42E191	WASHER .526 X 1.280 X .090			
11	2	P-182966	SPG STL LKWR (.500) HVY			360
3	1	P-41W660	PANEL E/W FIG. G			365
3	1	AK2	RELAY			
3	2	456B-446A	DIODE [RFR],[FAR]			
3	1	28B	BRACKET E/W			370
3	1	203A	TERMINAL STRIP			
3	1		2214 GROMMET (ATLANTIC INDIA RUBBER CO.)			375
1,2,3	1	P-48K327	BRACKET E/W FIG. D			380
1,2,3	1	P-40F972	TERMINAL INSULATOR			
1,2,3	1	67C	LAMP SOCKET E/W			
1,2,3	1	67B	LAMP SOCKET (WHITE CPA) E/W			
1,2,3	1	M1-A3	LAMP			
1,2,3	1	79B	LAMP CAP (WHITE)			385
AM	1	A2	LAMP			
AM	OMIT 1	M1	LAMP			
1,2,3	1	840059596	PHM SCR .190-24 X 1/2			
1,2,3	1	840058275	PMR SCR .112-40 X 7/16			
1,2,3	1	P-284139	WASHER .120 X .250 X .028			390
1,2,3	1	P-42E186	WASHER .198 X .570 X .036			
1,2,3	1	P-223512	SPG STL LKWR (.190) HVY			
1,2,3	1	P-210828	HEX NUT .112-40			
D	2	P-40X676	ADAPTER			
1,2	1	P-490471	ANGLE			410
B	2	P-490471	ANGLE			
1,2	1	P-40X760	BUS BAR SUPPORT			
B	2	P-40X760	BUS BAR SUPPORT			415
1,2	1	P-40X758	BUS BAR			
B	1	P-40X759	BUS BAR			
11,13	1	P-48G077	BUS BAR			
11,12	1	P-40X337	BUS BAR			420
12,14	1	P-48G078	BUS BAR			
13	1	P-40X339	BUS BAR			
14	1	P-40X338	BUS BAR			

AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
22,23,24,25	5 FEET	KS-20195	1/0 GAUGE WIRE			461
22,23,24,25	1	995082666	KS-15977 L-81 TERMINAL LUG			465
22,23,24,25	1		54110 CONNECTOR			
22,23,24,25	1		54160 CONNECTOR (T & B CO)			470
17,19	4		2165-1A INSULATOR (GLASTIC CORP)			475
22,23,24,25	5 FT	KS-13385	22GA SOLID WIRE (GREEN)			
22,23,24,25	5FT	KS-13385	22GA SOLID WIRE (RED)			480
22,23,24,25	5FT	456M	CABLE			
36,37	2		54261 CONN(T&B CO)			485
36	1					
37	1					
38	1					
39	1					
36	1					487
37	1					
38	1					
39	1					
1,2,B	2	840060214	PHM SCR .216-24 X 9/16			
11,16	8	840060289	.216-24 X 1 1/2			
17,19	8	841059850	.250-20 X 9/16			
1,2	2	840060248	.216-24 X 7/8			506
B	4	840060248	.216-24 X 7/8			
40	8	P-353447	.216-24 X 1/2	S		510
1,2	12	P-353446	SPL RHM SCR .216-24 X 3/8			
3	2	P-353446	.216-24 X 3/8			
E,F	4	P-353446	.216-24 X 3/8			
11,13	12	P-353500	.216-24 X 7/16			
D	8	P-353500	.216-24 X 7/16			515
1,2,3,18,20,41	4	P-353447	.216-24 X 1/2			
AN, AP	2	P-353446	.216-24 X 3/8			
B	2	P-353450	.216-24 X 1			
22,23,24,25	10	P-353447	.216-24 X 1/2			
26,27,28,29	26	P-353447	.216-24 X 1/2			520
56,37,38,39	4	P-172485	HEX HD CAP SCR .250-20 X 5/8			
11,12,13,14	1	P-133102	.250-20 X 7/8			525
11,12,13,14	2	P-127312	.375-16 X 1			
12,14	2	P-147285	.375-16 X 1 1/2			
11,13	3	P-147285	.375-16 X 1 1/2			
12,14	1	P-160879	.375-16 X 2			
1,2	2	P-133102	.250-20 X 7/8			530
B	4	P-133102	.250-20 X 7/8			
11	4	P-127312	.375-16 X 1			
B	4	P-42E187	.229 X .640 X .056			
11,16	8	P-42E187	.229 X .640 X .056			
1,2	2	P-42E187	.229 X .640 X .056			
1,2,17,19,B	4	P-109896	.276 X .745 X .056			540
11	9	P-109896	.276 X .745 X .056			
12,13,14	1	P-109896	.276 X .745 X .056			
12,13,14	6	P-2841				

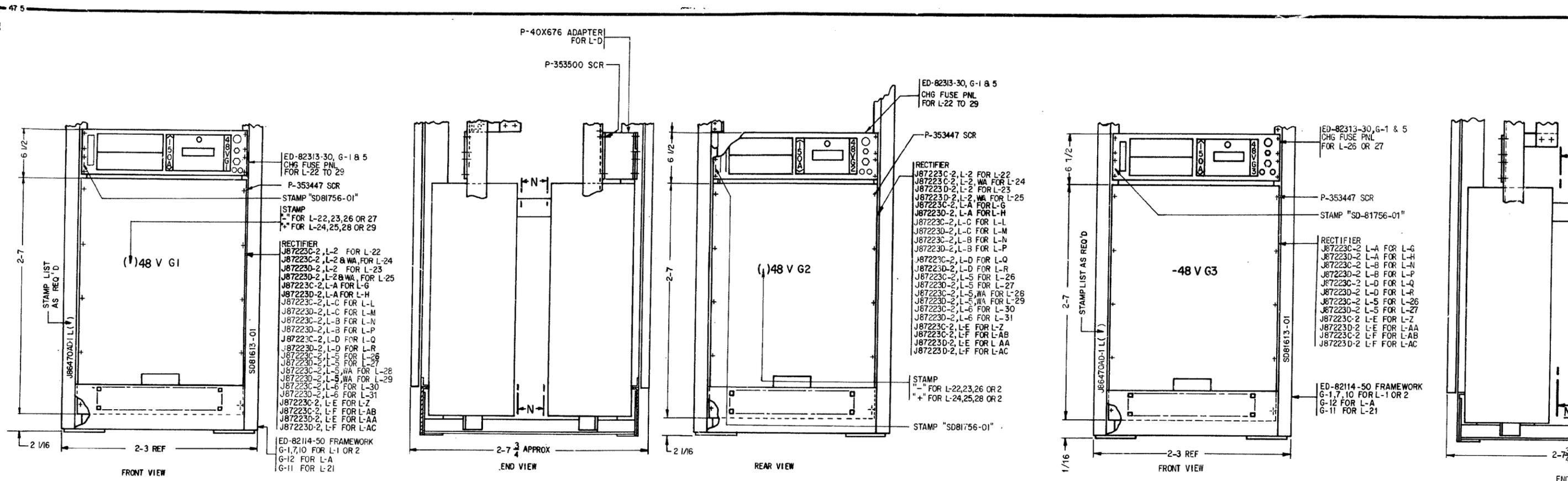


FIG. 6 (MFR DISC)
INITIAL BAY ARRANGEMENT
(TYPICAL)
(LIST 1 OR 2)
(OTHERWISE SAME AS FIG. 1)

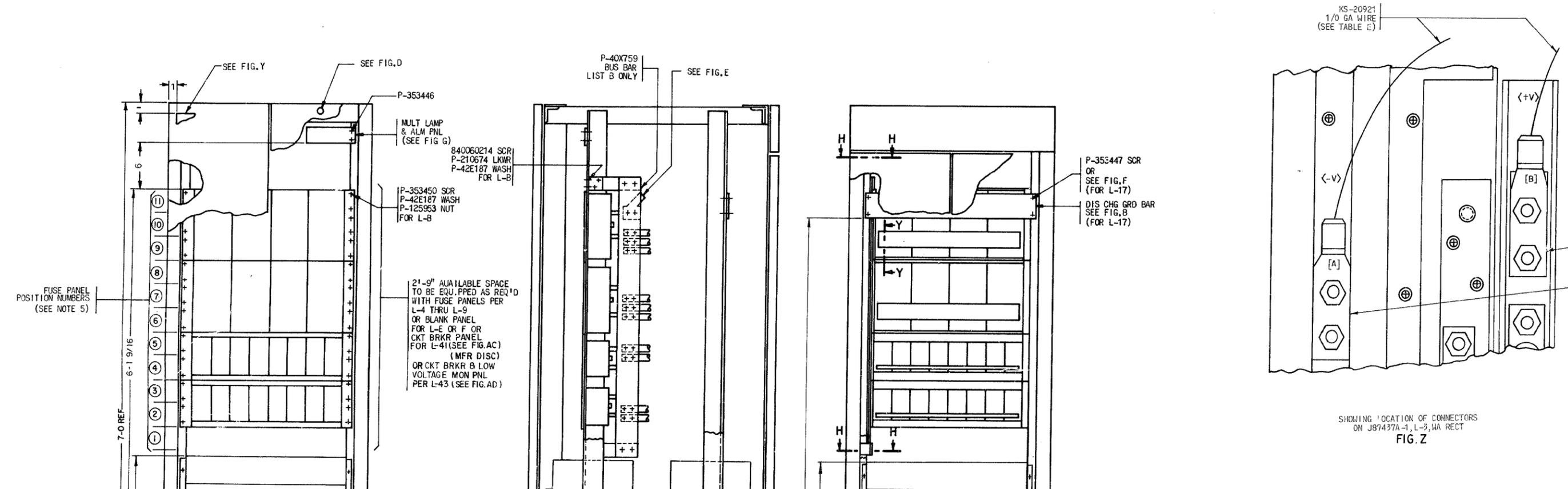


FIG. 7 (MFR DISC)
SUPPLEMENTARY BAY ARRANGEMENT
(TYPICAL)
(LIST 1 OR 2)
(OTHERWISE SAME AS FIG. 1)

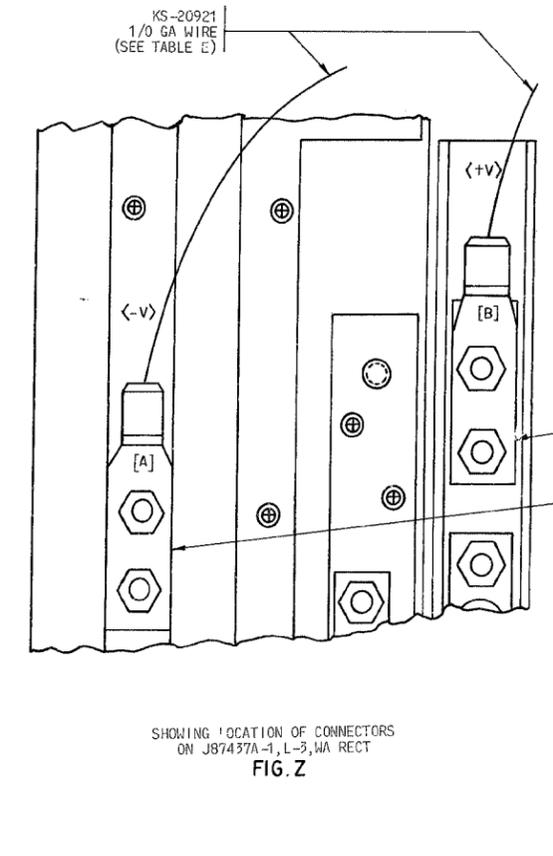


FIG. 8 (MFR DISC)
SHOWING LOCATION OF CONNECTORS
ON J87437A-1, L-3, WA RECT

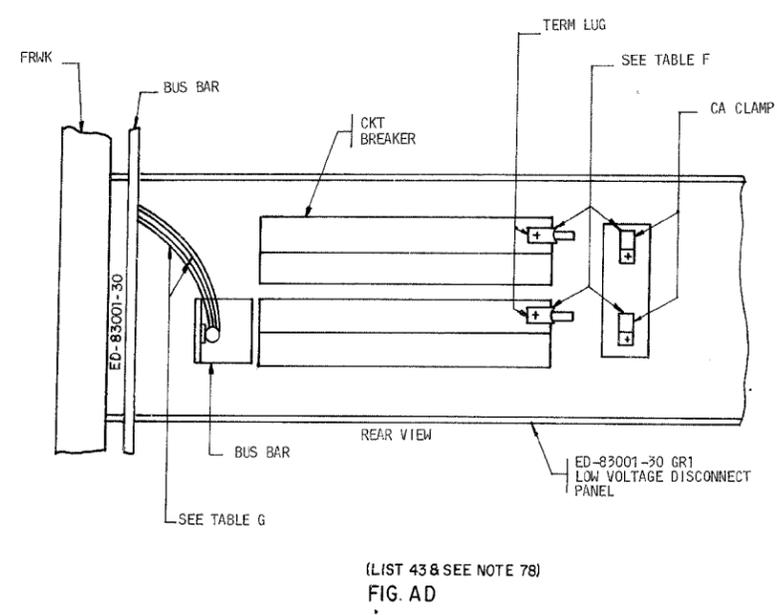
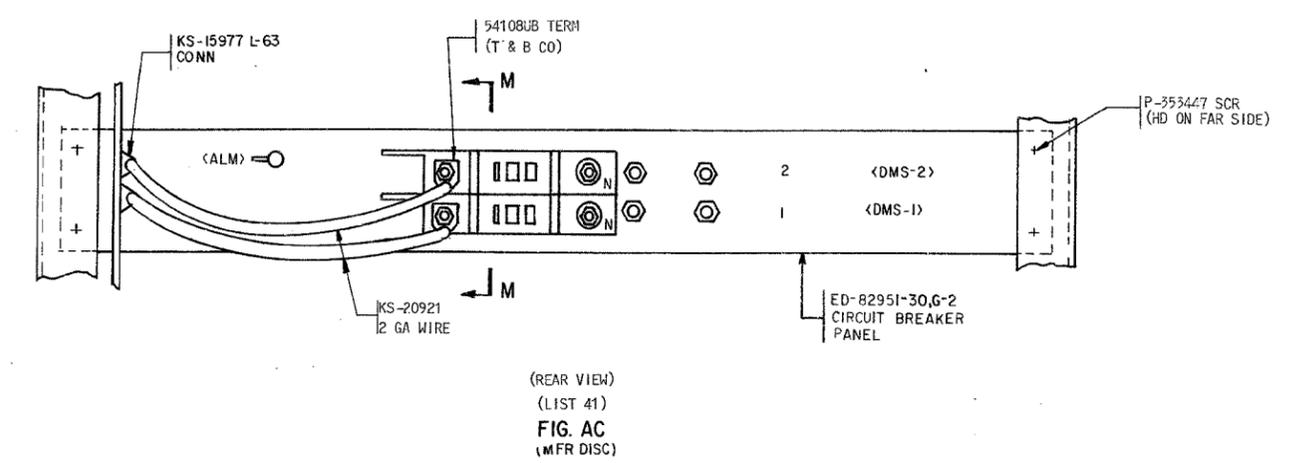
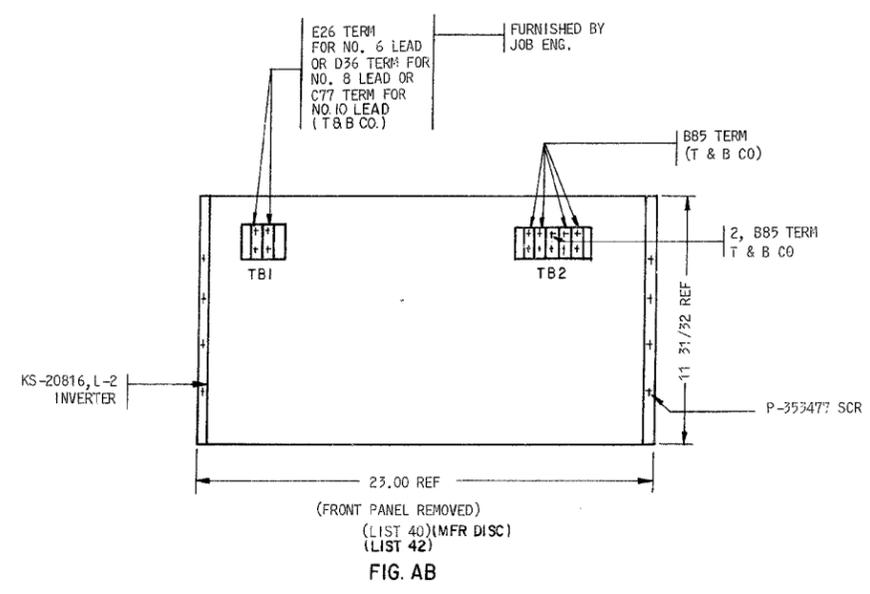


TABLE F
FOR CONNECTING ED-83001-30 CKT BRKR PANEL TO LOAD

FOR WIRE GA. SIZE	USE CONN. LIST	MOUNTING MATERIAL	CABLE CLAMP CODE	CABLE CLAMP PART NO.	MOUNTING MATERIAL	
1/0	L71	NONE REQUIRED	400844-	NE-10	NONE REQUIRED	CABLE CLAMP MAY BE OBTAINED FROM PLASTIC COMPONENTS CO.
2/0	L71B	FURNISHED WITH C.B. PANEL	338			
4/0	L719		900492-307	NE-12		

TABLE G
MOUNTING MATERIAL FOR CONNECTING ED-83001-30 CKT BRKR PANEL TO 111A PLANT

FOR WIRE GA. SIZE	USE CONN. LIST	CIRCUIT BREAKER & LOW VOLT MONITOR PANEL		111A PWR PLT
		ONE CONNECTOR	TWO CONNECTORS	ONE CONNECTOR
2/0	L83	2, P-127312 SCR 4, P-284163 WASH 2, P-182907 NUT	2, P-147284 SCR 4, P-284163 WASH 2, P-182907 NUT	2, P-400577 SCR 2, P-109896 WASH
4/0	L93	2, P-127312 SCR 4, P-284163 WASH 2, P-182907 NUT	2, P-147285 SCR 4, P-284163 WASH 2, P-182907 NUT	2, P-400577 SCR 2, P-109896 WASH
350,000	L305	2, P-147287 SCR 4, P-284163 WASH 2, P-182907 NUT	2, P-146273 SCR 4, P-284163 WASH 2, P-182907 NUT	2, P-125616 SCR 2, P-109896 WASH

STOCKLIST								
ITEM	A LIST	B QTY PER LIST	C IDENTIFICATION NO.		E DESCRIPTION	F REFERENCE	G NOTE	
			COMCODE	D DRAWING			SYM	H NO
1	10	1	801829094		P182909 NUT .500-13 289A			7
	11	2	801829094		P182909 NUT .500-13 289A			7
A	2	11	2	801829664	P182966 LKWR .500 HVY289A			
	3	11	12	803535004	P353500 SCR RHM1224X7/16			
	4	10	1	601275795	ED81782-31 G11 PANEL			
	5	11	1	600294771	ED81782-31 G14 PNL			
	6	11	1	601276132	ED81782-31 G16 PANEL			
	7	5	1	600294763	ED81782-31 G2 PANEL			
	8	6	1	601275803	ED81782-31 G3 PANEL			
	9	5, 6, 10, 11	1	200288702	ED81782-31 GA PANEL			
	10	10	1	601131642	H285 117 L46 CA ASM			
	11	10	1	601131659	H285 117 L47 CA ASM			
	12	10	1	601131667	H285 117 L48 CA ASM			
	13	5, 6	1	601100100	H285 117 L49 CA ASM			9
	14	6	1	601100118	H285 117 L50 CA ASM			9
B	15	11	2	800652356	P065235 TERM PUNCHING			
	16	11	9	801098963	P109896 WASHER .250 289A			
	17	5	1	801257759	P125775 HHC .375-16X7/8			
		6	2	801257759	P125775 HHC .375-16X7/8			
	18	11	6	801273129	P127312 SCR HHC .375-16X1			
	19	11	1	801331026	P133102 HHC .250-20X7/8			
	20	11	3	801472853	P147285 HHC .375-16X1.50			
	21	10	1	801700121	P170012 HHC .500-13X1.25			7
	22	11	2	801702838	P170283 HHC .500-13X1.50			
	23	5	1	801829078	P182907 NUT .375-16 289A			
		6	2	801829078	P182907 NUT .375-16 289A			
		11	7	801829078	P182907 NUT .375-16 289A			
C	24	17	5	802065185	P206518 NUT .164-32 289A			
	25	6	4	802841577	P284157 WASHER .250 289A			
	26	5	2	802841635	P284163 WASHER .375 289A			
		6	4	802841635	P284163 WASHER .375 289A			
		11	14	802841635	P284163 WASHER .375 289A			
	27	10	2	802841692	P284169 WASHER .500 289A			
	28	17	2	804039048	P403904 TERM STRIP			
	29	11	1	814870770	P48G077 BUS BAR			
	30	11	1	834073371	P40X337 BUS BAR			
	31	11	1	834076101	P40X610 BUS BAR			
	32	11	1	834076127	P40X612 PANEL			
	33	11	1	834076135	P40X613 INSULATOR			
	34	10	1	834076283	P40X628 BUS BAR			
D	35	11	1	834077562	P40X756 BUS BAR			
	36	11	4	834077570	P40X757 BUS BAR			
	37	17	1	834164972	P41W497 BAR GROUND			
	38	17	10	814251856	P42E185 WASHER .164 289A			
	39	11	8	814251872	P42E187 WASHER .216 289A			
	40	11	4	814251914	P42E191 WASHER .500 289A			
	41	5, 6	1	824828230	P48K823 BUS BAR			
	42	11	10	996060596	RIVET 38-108-13-91			
	43	11	4	996170726	RIVET 38-108-20-91			
	44	11	8	996060836	RIVET 38-112-32-91			
	45	11	8	840060289	SCR PHM #12-24X1.50 289A			
	46	17	5	840059109	SCR PHM #8-32X5/8 289A			
E	48	17	4	996523080	INSULATOR 2165-1A STD/OFF			
	49	17	4	801098963	P109896 WASHER .250 289A			
	50	17	4	801829557	P182955 LKWR .250 HVY 289A			
	51	17	8	841059850	SCR PHM 1/4-20X9/16 289A			
	53	5	2	802841577	P284157 WASHER .250 289A			
		10	6	802841577	P284157 WASHER .250 289A			
	54	5, 6	8	803534478	P353447 SCR RHM 12-24X1/2			
	55	10	12	803534460	P353446 SCR RHM 12-24X3/8			
	56	5	2	804005775	P400577 SCR HHC .250-20X.5			
		6	4	804005775	P400577 SCR HHC .250-20X.5			