

SHOP
INST

(CONTINUATION)
MANUFACTURING NOTES

- X 16-WHEN LIST D OR E IS ORDERED WITHOUT LIST B, LIST D OR E SHALL BE SHIPPED SEPARATE.
- X 17-WHEN LIST J IS ORDERED WITHOUT LIST 5, LIST J SHALL BE SHIPPED SEPARATE.
- X 18-WHEN LIST J IS SPECIFIED REMOVE STAMPING +24V AND RESTAMP -48V.
- X 19-WHEN LISTS 10, 11, 12, 13, 14, AA & AB ARE ORDERED WITHOUT LIST 9 OR 18, THEY SHALL BE SHIPPED SEPARATE.
- X 20- PARTS REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS TO BE SHOP MOUNTED OR BY THE INSTALLER WHEN EQUIPMENT IS TO BE FIELD MOUNTED.
- X 21-W * PARTS TO BE (A) SHOP ASSEMBLED, BUT WHICH CANNOT BE ASSEMBLED UNTIL THE ASSOCIATED EQUIPMENT IS BEING MOUNTED, OR (B) SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED EQUIPMENT WHEN FIELD MOUNTED.
- X 22-BUS BAR CLAMP ASSEMBLIES IN THE END BAY SHALL BE TAPED AS REQUIRED TO PREVENT ANY POSSIBILITY OF CONTACT BETWEEN THE LIVE BUS BAR AND FRAMEWORK END PANEL.
- X 23-CEMENT FP-241 FINISH PLUG TO PANEL WITH SILASTIC RTV 732 CLEAR DOW CORNING ADHESIVE. OVERFLOW ON REAR IS NOT OBJECTORABLE.
- X 24-WHEN LIST 19 IS SPECIFIED REMOVE STAMPING AND RETOUCH PANEL WITH MATCHING TOUCH-UP PAINT AS REQUIRED.
- X 25-WHEN LISTS 22, 23, 24, 25, 26, AA & AB ARE ORDERED WITHOUT LIST 20 OR 21, THEY SHALL BE SHIPPED SEPARATE.

(CONTINUATION ENGINEERING NOTES)

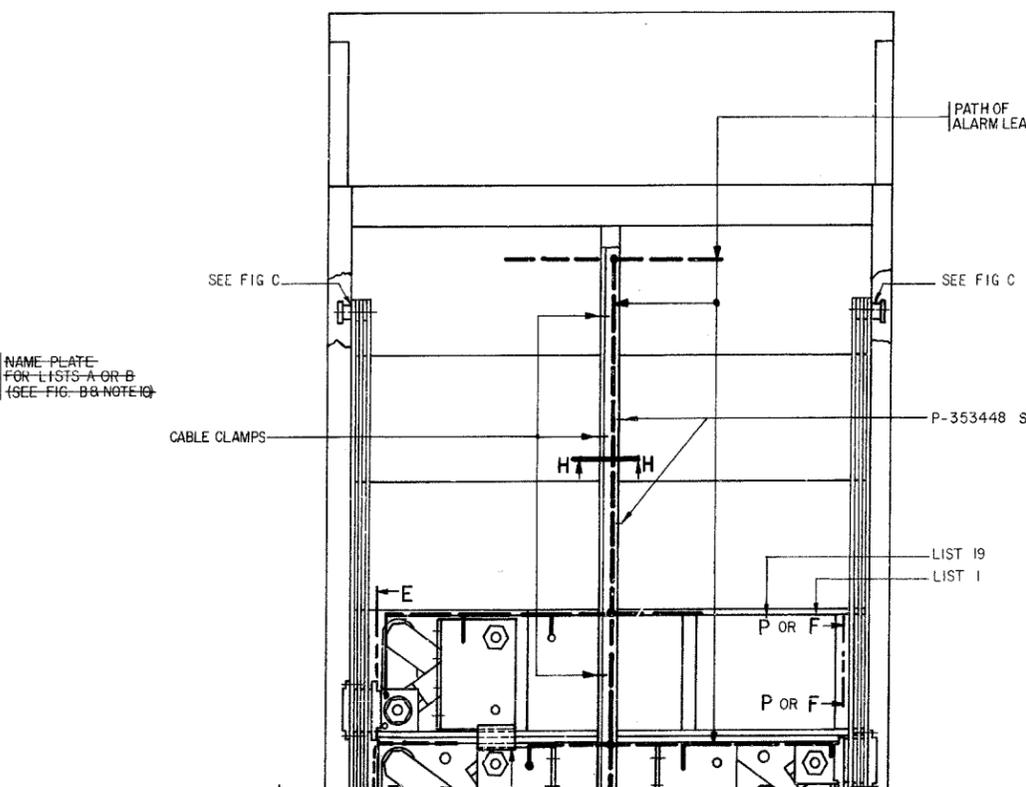
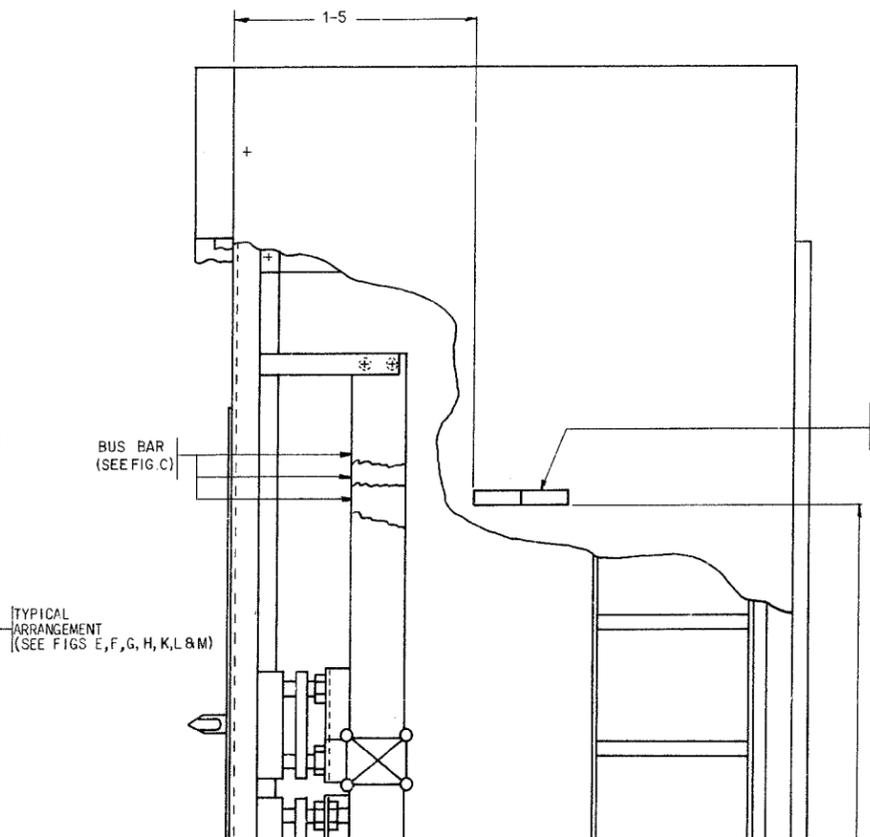
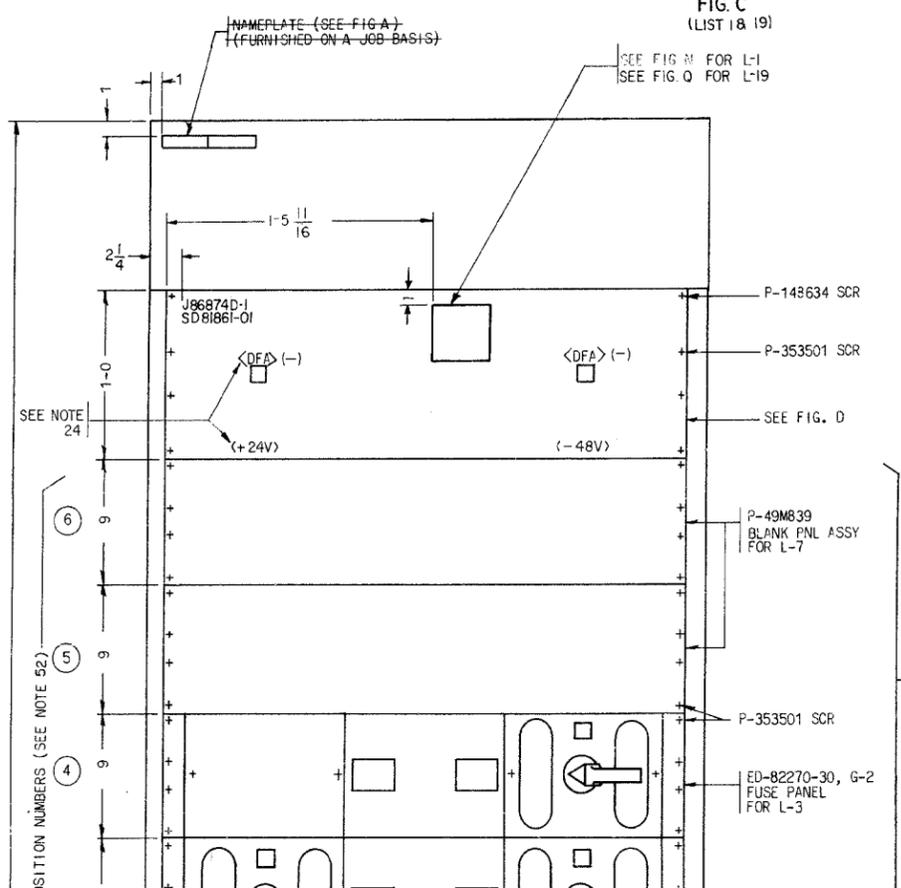
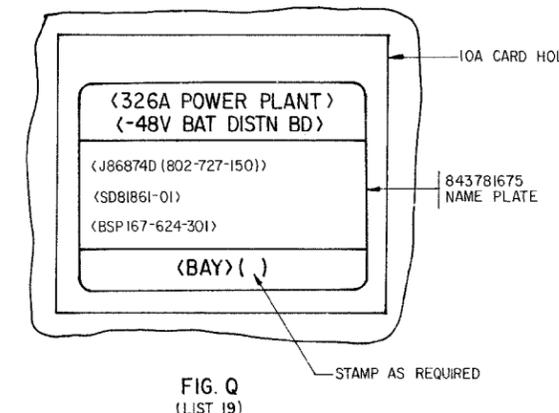
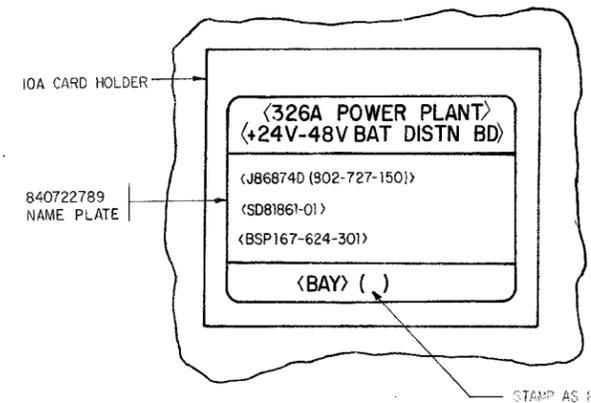
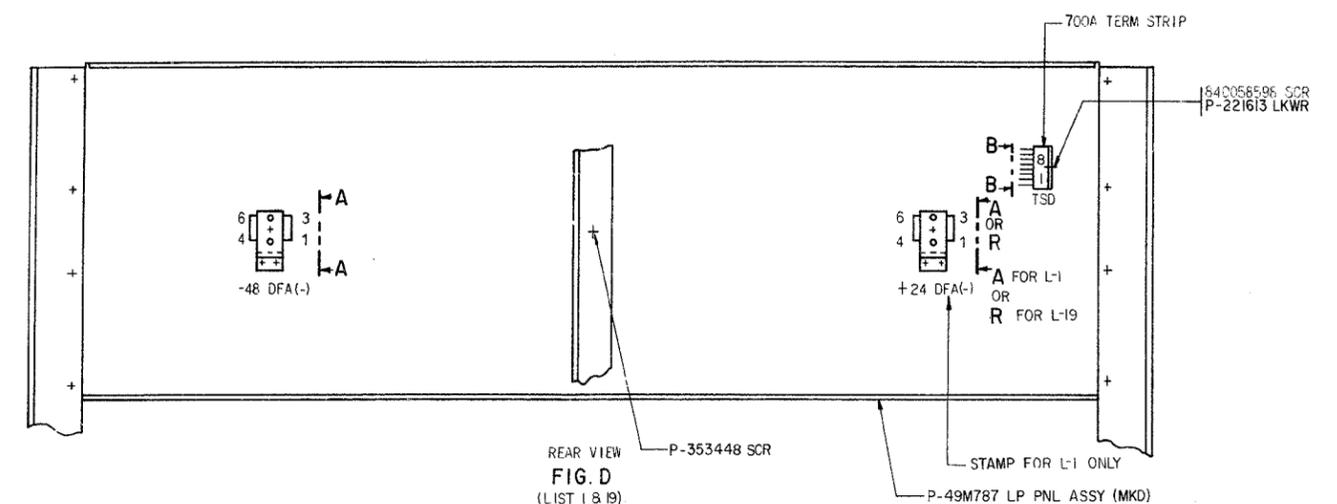
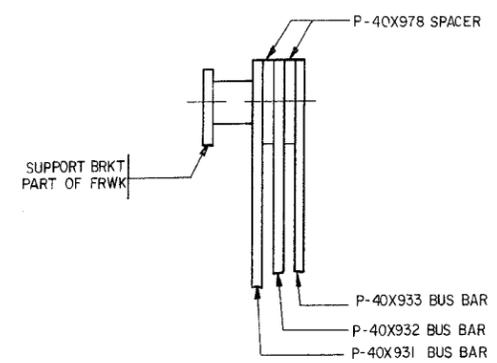
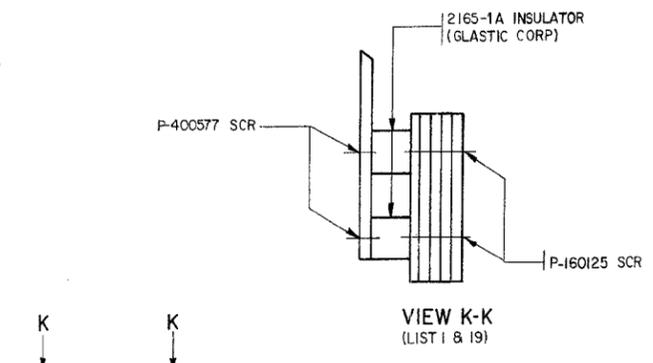
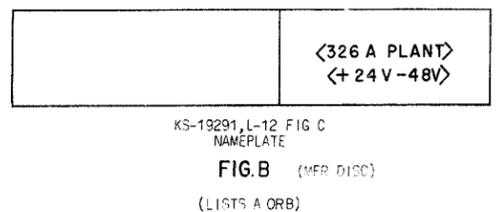
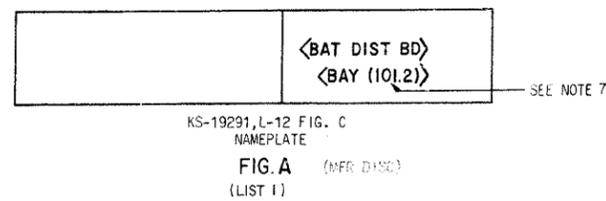
- 70-WHEN LIST I OR 19 IS ARRANGED TO EXTEND MAIN BATTERY AND GROUND BUS BARS TO FUTURE DISCHARGE BAYS, ENGINEER SHALL:
 - A-RELOCATE P-40X934 TO P-40X939 BUS BARS AND SPECIFY LIST-S BUS BAR. SEE ED-82271-14 FIGURE L.
 - B-RELOCATE P-420383 COVER. SEE ED-82271-14 FIGURE L.
 - C-IN ORDER TO ARRANGE MAIN GROUND BUS BARS FOR EXTENSION TO FUTURE DISCHARGE BAYS, PROVIDE TEMPORARY BUS BARS AND P-40X627 BUS BAR. SEE ED-82271-14 FIGURE M.
 - D-WHEN MAIN DISCHARGE GROUND BUS BAR IS EXTENDED TO THE ADDED DISCHARGE BAYS, PROVIDE TEMPORARY CONNECTION TO P-40X944 BUS BAR (DISCHARGE GROUND BAR) WHILE BUS BAR CLAMP IS LOOSENED TO REPLACE THE TEMPORARY BUS BARS WITH BUS BARS TO THE NEW DISCHARGE BAYS.
 - E-ENGINEER SHALL INSTRUCT INSTALLER TO DISREGARD ED-82271-14 NOTE 4 AND PROVIDE ONE H.K. PORTER CO., INC. 88678 INSULATOR AND TWO P-42D503 SUPPORTS OR TWO P-42D504 SUPPORTS AS REQUIRED TO SUPPORT MAIN GROUND BAR IN ACCORDANCE WITH ED-82271-14 SECTIONS C-C OR D-D.
- 71-LIST-P, Q OR R DOES NOT INCLUDE MAIN BATTERY BUS BARS.
- 72-SPECIFY ONE LIST-P, Q OR R FOR EACH SET OF 24 VOLT OR 48 VOLT MAIN BATTERY BUS BARS TO BE SPLICED.
- 73-SPECIFY CIRCUIT BREAKER PANEL AND/OR BLANK PANEL POSITION NUMBERS WHEN ORDERING LISTS 9 AND 18 OR 20, 21 REFER TO FIG 2, LIST 9 OR 18 OR 20, 21 MAY NOT BE LOCATED IN POSITION 1.
- 74-EQUIP POSITION 1 THRU 4 OF LIST 9 OR 20 PANEL WHEN CIRCUIT BREAKER PER LIST 10 THRU 14 OR 22 THRU 26 IS REQUIRED EQUIPMENT POSITION 2 AND 3 FIRST THEN 1 AND 4 USE LIST Z BLANK PLATES FOR UNEQUIPPED POSITIONS.

TABLE A (CONTINUATION)

COL	A	B RAT- ING	C LIST	D NO	E				G	H
					CIRCUITS AND FIGURES EQUIPPED					
					CKT	FIG	WRG	APP		
	MATERIAL REQUIRED TO ENCLOSE LEFT END, TOP AND BOTTOM OF BATTERY DISTRIBUTION BAY WHEN LOCATED AT LEFT END OF POWER BOARD. (INCLUDES ONE INTERMEDIATE ENCLOSURE).	DA	A							
	MATERIAL REQUIRED TO ENCLOSE RIGHT END, TOP AND BOTTOM OF BATTERY DISTRIBUTION BAY WHEN LOCATED AT RIGHT END OF POWER BOARD.	DA	B							
	MATERIAL REQUIRED TO ENCLOSE TOP AND BOTTOM OF BATTERY DISTRIBUTING BAYS WHEN LOCATED IN INTERMEDIATE POSITION OF POWER BOARD. (INCLUDES ONE INTERMEDIATE ENCLOSURE).	DA	C							
	61 TO 100 AMPERE FUSE MOUNTING FOR USE ON LIST 8 FUSE PANEL. (SEE NOTE 56A)	DA	D		A					
	101 TO 200 AMPERE FUSE MOUNTING FOR USE ON LIST 8 FUSE PANEL. (SEE NOTE 56A)	DA	E							
	BLANK FILLER FOR AN UNEQUIPPED POSITION ON LIST 8 FUSE PANEL.	DA	F							
	BUS BAR AND CLAMP REQUIRED IN ADDITION TO FIRST LIST D OR E USED ON POSITIVE 24 VOLTS.	DA	G							
	BUS BAR AND CLAMP REQUIRED IN ADDITION TO FIRST LIST D OR E USED ON NEGATIVE 48 VOLTS	DA	H							
	MATERIAL REQUIRED IN ADDITION TO LIST 5 TO ARRANGE FUSE PANEL FOR ALL 48 VOLT DISCHARGE FUSES.	DA	J		(4F)	HB OMIT HA				
	MATERIAL REQUIRED IN ADDITION TO LIST 1 OR 19 SUPPORT GROUND BAR WHEN LIST 1 OR 19 IS LAST DISTRIBUTION BAY IN THE POWER BOARD.	DA	K							
	BUS BAR CLAMPS AND SPACERS REQUIRED IN ADDITION TO LIST 1 OR 19 WHEN POWER PLANT IS ARRANGED FOR 2,000 AMPERE CAPACITY AND TWO WAY GROWTH.	DA	L							
	BUS BAR CLAMPS AND SPACERS REQUIRED IN ADDITION TO LIST 1 OR 19 WHEN POWER PLANT IS ARRANGED FOR 4,000 AMPERE CAPACITY AND TWO WAY GROWTH OR 2,000 AMPERE CAPACITY AND LEFT OR RIGHT GROWTH ONLY.	DA	M							
	BUS BAR CLAMPS AND SPACERS REQUIRED IN ADDITION TO LIST 1 OR 19 WHEN POWER PLANT IS ARRANGED FOR 6,000 AMPERE CAPACITY AND TWO WAY GROWTH.	DA	N							
	BUS BAR CLAMP AND SPACERS REQUIRED TO SPLICE 24 OR 48 VOLT MAIN BATTERY BUS BAR WHEN PLANT IS ARRANGED FOR 2,000 AMPERE CAPACITY AND TWO WAY GROWTH (SEE NOTE 71,72)	DA	P							
	BUS BAR CLAMP AND SPACERS REQUIRED TO SPLICE 24, OR 48 VOLT MAIN BATTERY BUS BARS WHEN PLANT IS ARRANGED FOR 4,000 AMPERE CAPACITY AND TWO WAY GROWTH OR 2,000 AMPERE CAPACITY AND LEFT OR RIGHT GROWTH ONLY (SEE NOTE 71,72)	DA	Q							
	BUS BAR CLAMP AND SPACERS REQUIRED TO SPLICE 24, OR 48 VOLT MAIN BATTERY BUS BARS WHEN PLANT IS ARRANGED FOR 6,000 AMPERE CAPACITY AND TWO WAY GROWTH. (SEE NOTE 71,72)	DA	R							
	BUS BAR AND BOLTING MATERIAL REQUIRED TO EXTEND BAY VERTICAL RISER BUS BAR TO RELOCATED CONNECTING BUS BAR WHEN LIST-1 OR 19 IS ARRANGED TO EXTEND MAIN BATTERY BUS BARS TO FUTURE BAYS	DA	S							
	BUS BAR CLAMPS AND SPACERS REQUIRED IN ADDITION TO LIST 1 OR 19 WHEN PLANT IS ARRANGED FOR 4000 AMPERE CAPACITY AND LEFT OR RIGHT GROWTH ONLY.	DA	T							
	BUS BAR CLAMPS AND SPACERS REQUIRED IN ADDITION TO LIST 1 OR 19 WHEN PLANT IS ARRANGED FOR 6,000 AMPERE CAPACITY AND LEFT OR RIGHT GROWTH ONLY.	DA	U							
	BUS BAR CLAMP AND SPACERS REQUIRED TO SPLICE 24 OR 48 VOLT MAIN BATTERY BUS BARS WHEN PLANT IS ARRANGED FOR 4,000 AMPERE CAPACITY AND LEFT OR RIGHT GROWTH ONLY.	DA	V							
	BUS BAR CLAMP AND SPACERS REQUIRED TO SPLICE 24 OR 48 VOLT MAIN BATTERY BUS BARS WHEN PLANT IS ARRANGED FOR 6,000 AMPERE CAPACITY AND LEFT OR RIGHT GROWTH ONLY.	DA	W							
	MATERIAL REQUIRED IN ADDITION TO LIST 1 TO SUPPORT BUS BARS WHEN POWER PLANT IS ARRANGED FOR TWO WAY GROWTH.	DA	X							
	MATERIAL REQUIRED IN ADDITION TO LIST 1 TO SUPPORT BUS BARS WHEN POWER PLANT IS ARRANGED FOR LEFT OR RIGHT GROWTH ONLY.	DA	Y							
	BLANK PLATE FOR AN UNEQUIPPED CIRCUIT BREAKER POSITION ON LIST 9 OR 18 PANEL.	MFR DISC	Z							
	BUS BAR DETAIL FOR CONNECTING UP TO FOUR CABLES TO LOAD STUD OF LIST 10 THRU 14 & 22 THRU 26 CIRCUIT BREAKER.	DA	AA							
	BUS BAR DETAIL FOR CONNECTING FIVE TO EIGHT CABLES TO LOAD STUD OF LIST 10 THRU 14 & 22 THRU 26 CIRCUIT BREAKER.	DA	AB							
	BUS BAR REQUIRED IN ADDITION TO LIST 19 FOR CONNECTING BAY RISER BUS BAR TO MAIN 48 VOLT BATTERY BUS BAR WHEN LOCATED TOWARD	REAR OF BAY FRONT OF BAY	DA DA	AC AD						

TABLE A

COL	A	B RAT- ING	C LIST	D NO.	E
	FRAMEWORK, ASSEMBLY, WIRING AND COMMON EQUIPMENT FOR ONE COMBINED 24 AND 48 VOLT BATTERY DISTRIBUTION BOARD FOR 0-6,000 AMPERE PLANTS	DA	1		T-81861-31
	FUSE PANEL, 9 INCHES HIGH, EQUIPPED WITH TWO SWITCH AND FUSE UNITS FOR 200 TO 600 AMPERE FUSES. (SEE NOTE 56A)	DA	2		
	FUSE PANEL, 9 INCHES HIGH, EQUIPPED WITH ONE SWITCH AND FUSE UNIT FOR 200 TO 600 AMPERE FUSES (SEE NOTE 56A)	DA	3		
	FUSE PANEL, 9 INCHES HIGH EQUIPPED WITH FUSE MOUNTINGS FOR FIFTY-SIX 70 TYPE FUSES (28 PER VOLTAGE). (SEE NOTE 56B)	DA	4		
	FUSE PANEL, 9 INCHES HIGH, EQUIPPED WITH FUSE MOUNTINGS FOR TEN 0 TO 30 AMPERE FUSES (SEE NOTE 56A)	DA	5		
	FUSE PANEL, 9 INCHES HIGH, EQUIPPED WITH FUSE MOUNTINGS FOR TEN 31 TO 60 AMPERE FUSES (SEE NOTE 56A)	DA	6		
	BLANK PANEL, 9 INCHES HIGH.	DA	7		
	FUSE PANEL, 9 INCHES HIGH, ARRANGED TO MOUNT 61 TO 100 AMPERE AND/OR 101 TO 200 AMPERE FUSE MOUNTINGS. (MAXIMUM: FIVE 100 AMPERE UNITS OR THREE 100 AMPERE AND ONE 200 AMPERE UNITS OR ONE 100 AMPERE AND TWO 200 AMPERE UNITS PER VOLTAGE) (200 AMPERE UNIT OCCUPIES SPACE OF TWO 100 AMPERE UNITS (SEE NOTE 69)	DA	8		
	CIRCUIT BREAKER PANEL, 15 INCHES HIGH, ARRANGED TO ACCOMMODATE UP TO FOUR CIRCUIT BREAKERS PER LISTS 10 THRU 14. (NOTES 73,74 & 77)	MFR DISC	9	1	
	ONE 225 AMPERE CIRCUIT BREAKER	MFR DISC	10	1	
	ONE 300 AMPERE CIRCUIT BREAKER	MFR DISC	11	1	
	ONE 400 AMPERE CIRCUIT BREAKER	MFR DISC	12	1	
	ONE 500 AMPERE CIRCUIT BREAKER	MFR DISC	13	1	
	ONE 600 AMPERE CIRCUIT BREAKER	MFR DISC	14	1	
	BLANK PANEL, 15 INCHES HIGH	DA	15		
	BLANK PANEL, 6 INCHES HIGH	DA	16		
	BLANK PANEL, 3 INCHES HIGH	DA	17		
	CIRCUIT BREAKER PANEL, 15 INCHES HIGH, ARRANGED TO ACCOMMODATE ONE OR TWO CIRCUIT BREAKERS PER LISTS 10 TO 14 ON THE -48V SIDE ONLY. (POSITIONS 3 AND 4). (NOTES 73,75 & 77)	MFR DISC	18		
	FRAMEWORK, ASSEMBLY, WIRING AND COMMON EQUIPMENT FOR ONE NEGATIVE 48 VOLT ONLY BATTERY DISTRIBUTION BOARD FOR 0-6000 AMPERE PLANTS. (SEE NOTE 78)	DA	19	1 2 1	
	CIRCUIT BREAKER PANEL, 15 INCHES HIGH, ARRANGED TO ACCOMMODATE UP TO FOUR CIRCUIT BREAKERS PER LISTS 22 THRU 26 (SEE NOTES 73, 74 & 77)	DA	20	1	
	CIRCUIT BREAKER PANEL, 15 INCHES HIGH, ARRANGED TO ACCOMMODATE ONE OR TWO CIRCUIT BREAKERS PER LISTS 22 THRU 26 ON THE -48V SIDE ONLY. (POSITIONS 3 AND 4) (SEE NOTES 73, 75 & 77)	DA	21	1	
	ONE 225 AMPERE CIRCUIT BREAKER	DA	22		
	ONE 300 AMPERE CIRCUIT BREAKER	DA	23		
	ONE 400 AMPERE CIRCUIT BREAKER	DA	24		
	ONE 500 AMPERE CIRCUIT BREAKER	DA	25		
	ONE 600 AMPERE CIRCUIT BREAKER	DA	26		



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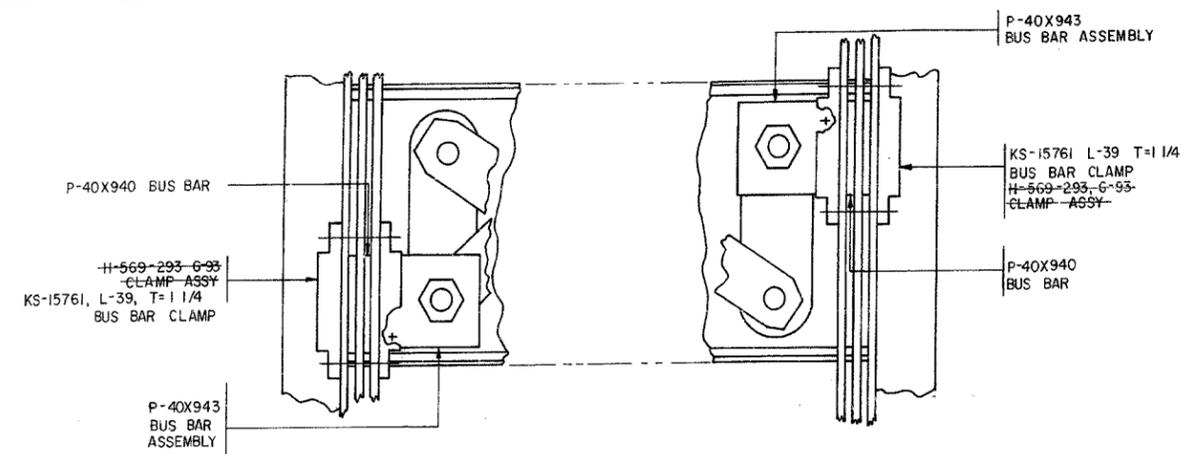
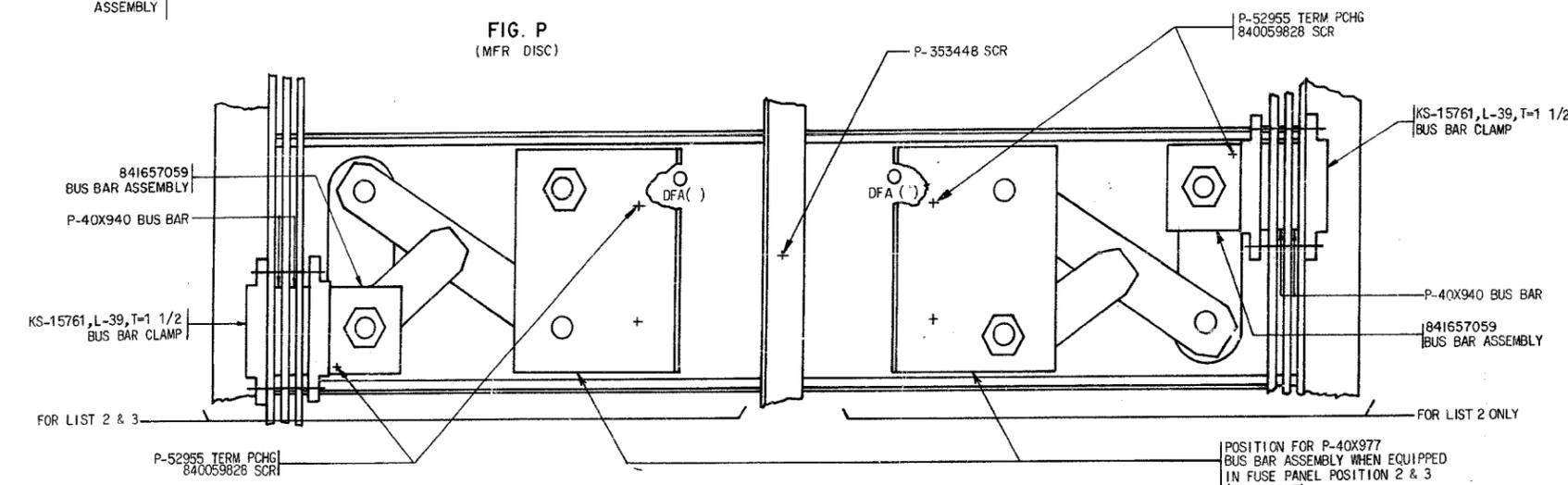
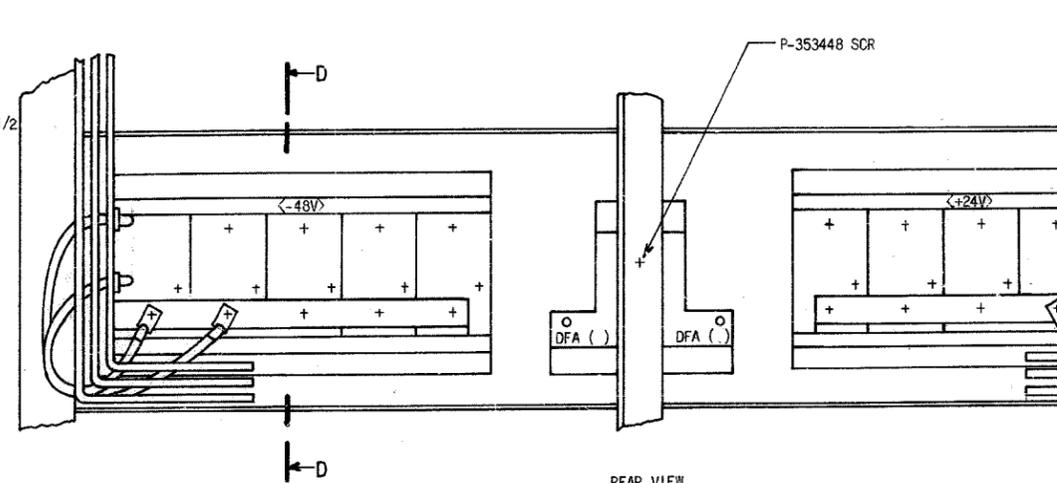


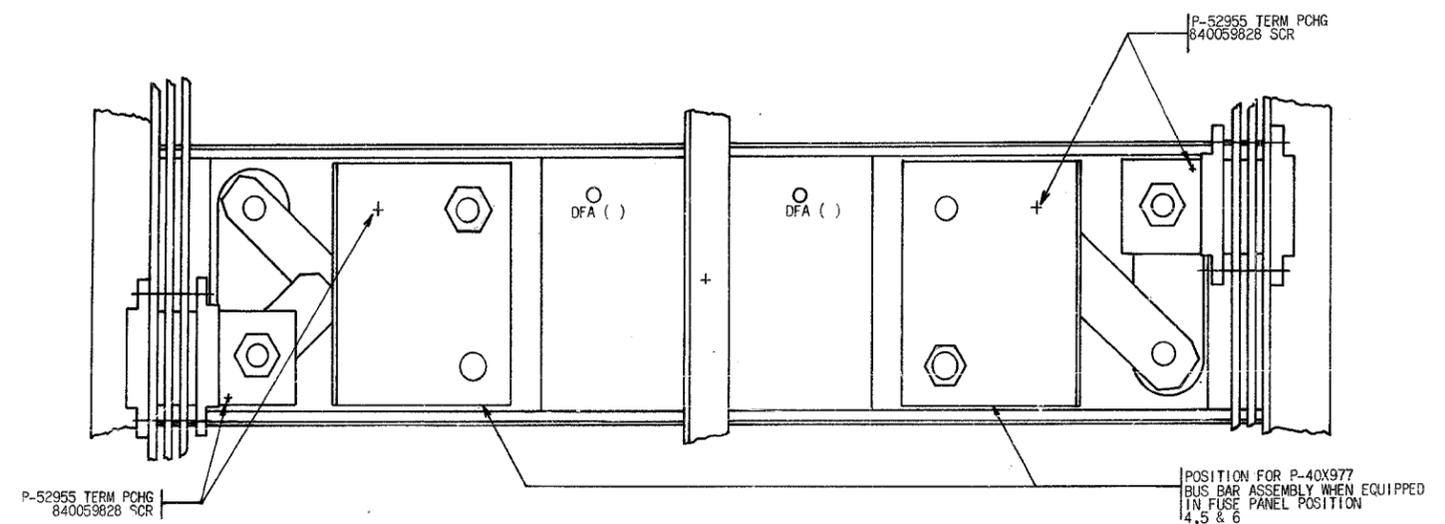
FIG. P
(MFR DISC)



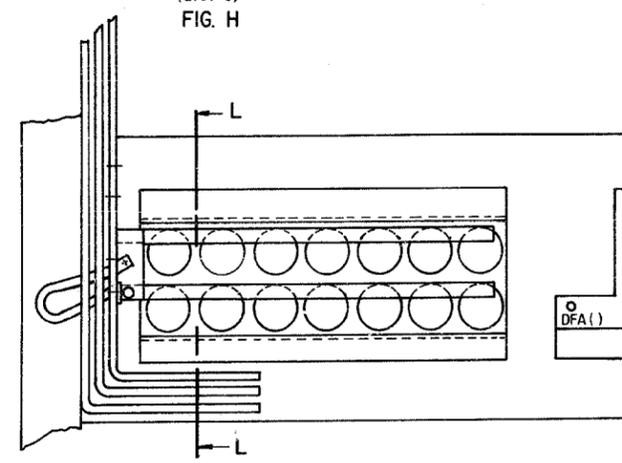
REAR VIEW
FIG. E
(LIST 2 & 3)
(SEE FIG. P)



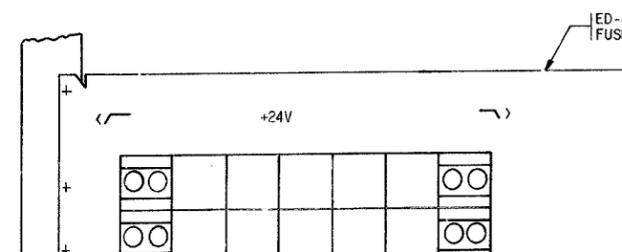
REAR VIEW
(LIST 6)
FIG. H

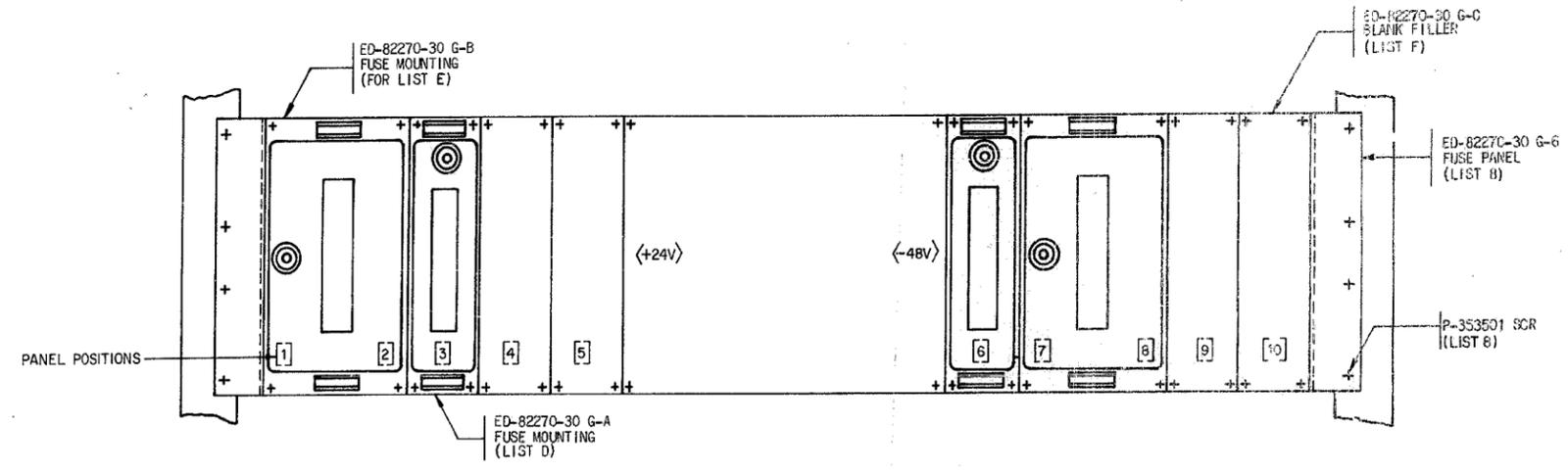
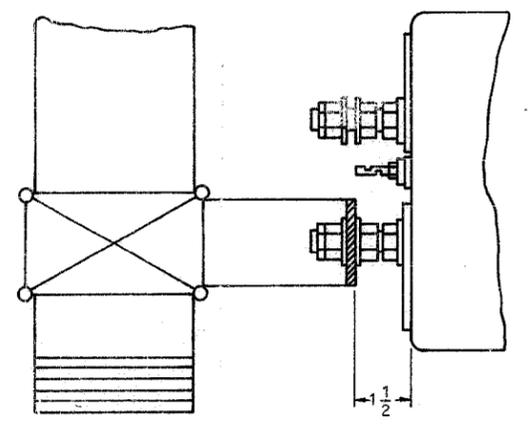
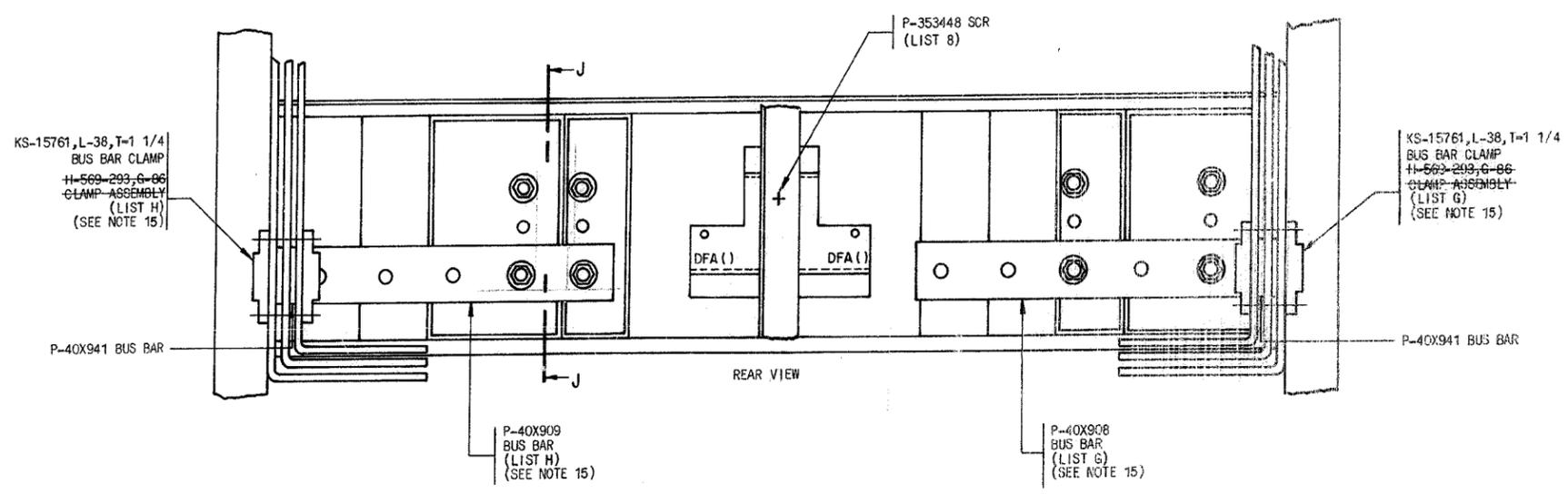


REAR VIEW
FIG. F
(LIST 2 & 3)
(OTHERWISE SAME AS FIG. E)
(SEE FIG. P)

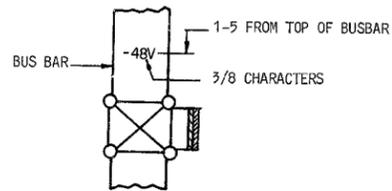


REAR VIEW
(LIST 6)
FIG. H

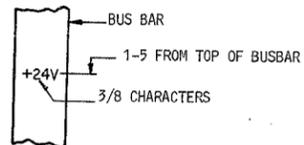




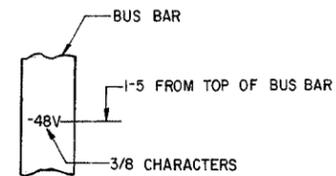
FRONT VIEW
FIG. M
(LISTS 8, D, E, F, G, H)



VIEW M-M
(LIST 1 & 19)



VIEW N-N
(LIST 1)



VIEW Q-Q
(LIST 19)

