

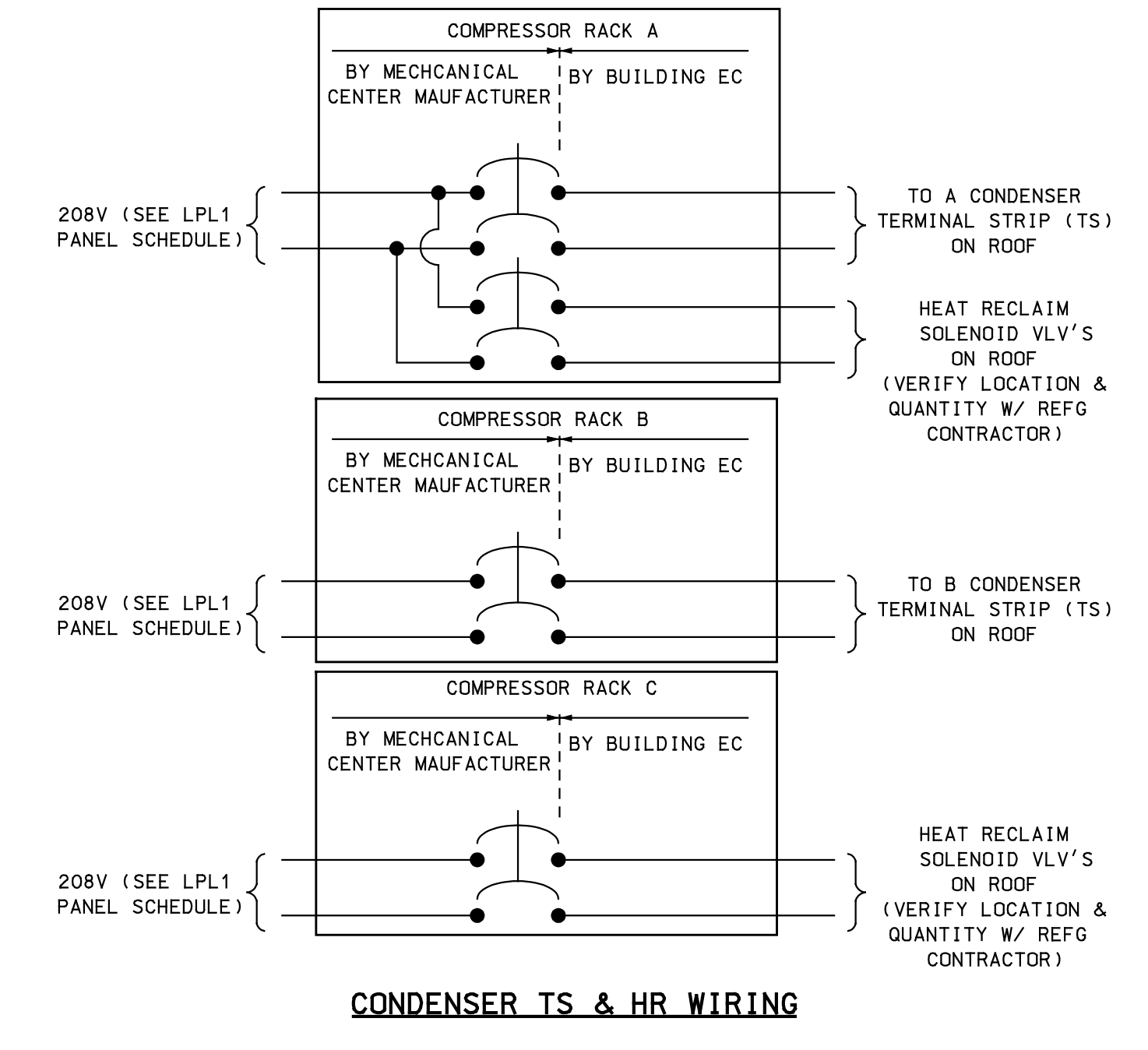
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CONDUIT & CONDUCTOR SCHEDULE					
MARK	CONDUCTORS (PER SET)			CONDUIT	REMARKS
	PHASE	NEUTRAL	GROUND		
1	3W350KCMIL	1W350KCMIL		3" "	1 SET COPPER
2	3W350KCMIL			3" "	
3	3W700KCMIL	1W700KCMIL	1/0	4" "	
4	3W300	1W300	4	3" "	
5	3W250	1W250	4	2 1/2"	
6	3W4/0	1W4/0	6	2 1/2"	
7	3W2/0	1W2/0	6	2" "	
8	3W1	1W1	6	1 1/2"	
9	3W3	1W3	8	1 1/2"	
10	3W4	1W4	8	1 1/2"	
11	3W1/2	1W1/2	12	1 1/2"	
12	2W1/2		12	1 1/2"	
13	3W8	1W8	10	1" "	
14	3W1		6	2" "	
15	3W6	1W6	10	1" "	
16					
17					
18					
19					
20					
21					

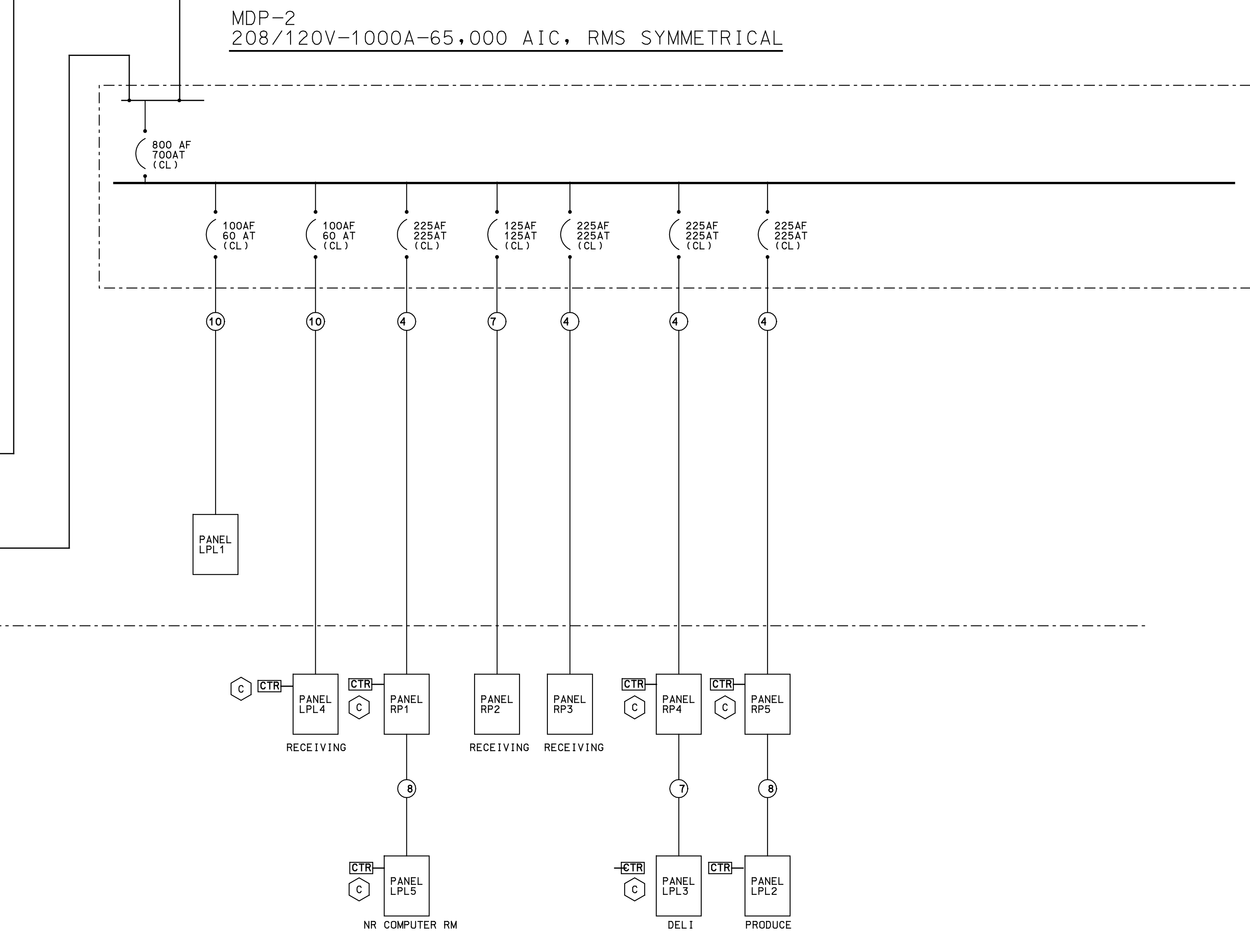
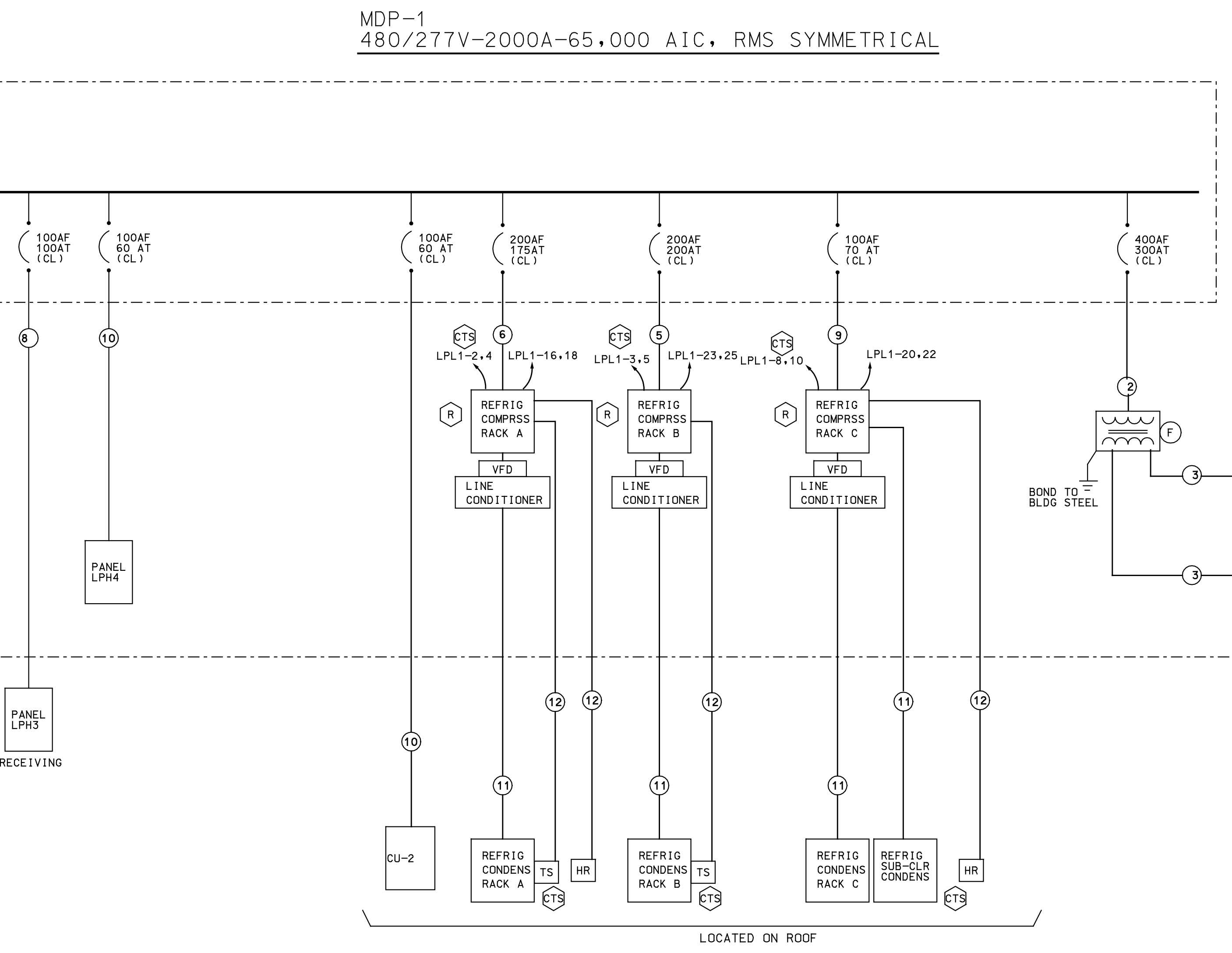
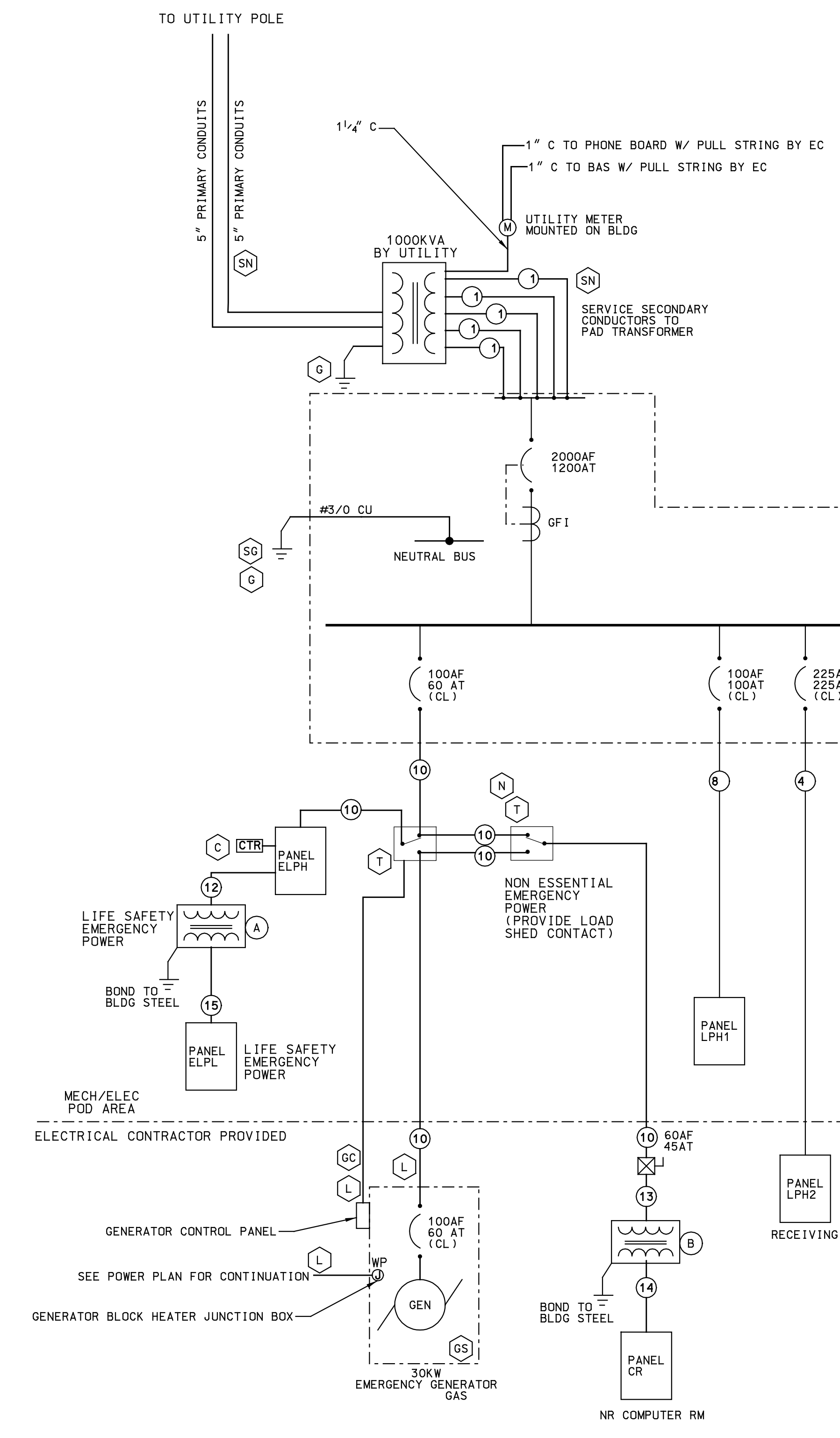
NOTE: ALL GROUNDING CONDUCTORS SHALL BE INSULATED

TRANSFORMER SCHEDULE				
SYMBOL	DESCRIPTION	MIN. IMPEDANCE RANGE	LOW VOLTAGE EFF. 75°C @ 95% OF NAMEPLATE LOAD	GROUND SIZE
(A)	480/208/120V, 3PH 19KVA-80 DEGREE CELC. TRANSFORMER	2.5-4.5 Z	97	#6
(B)	480/208/120V, 3PH 30KVA-80 DEGREE CELC. TRANSFORMER	2.5-4.5 Z	97.5	#6
(C)	480/208/120V, 1PH 37.5KVA-80 DEGREE CELC TRANSFORMER	2.5-4.5 Z	98.2	#6
(D)	480/208/120V, 3PH 45KVA-80 DEGREE CELC TRANSFORMER	2.5-4.5 Z	97.7	#4
(E)	480/208/120V, 3PH 75KVA-80 DEGREE CELC. TRANSFORMER	2.5-4.5 Z	98	#2
(F)	480/208/120V, 3PH 225KVA-80 DEGREE CELC. TRANSFORMER	2.5-4.5 Z	98.5	#3/0
(G)	480/208/120V, 3PH 300KVA-80 DEGREE CELC. TRANSFORMER	2.5-4.5 Z	98.6	#3/0

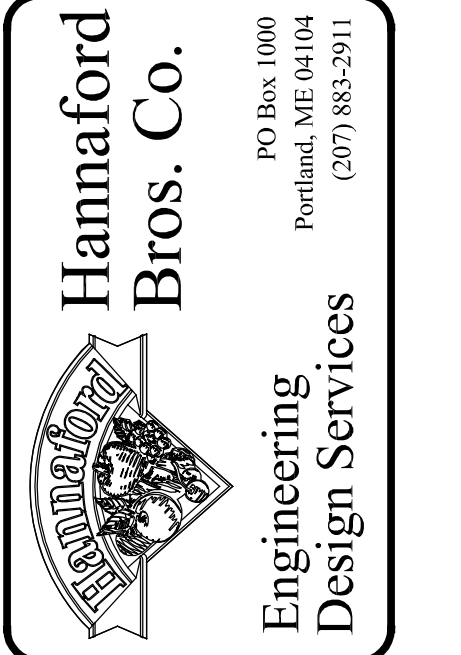
NOTE: STORE AREA DRY TYPE TRANSFORMERS TO BE MOUNTED AT 1'-0" ABOVE CEILING IN AREA WITH RESPECT TO PANEL LOCATIONS



- (C) SEE PANEL SCHEDULE DWG FOR CONTACTOR SCHEDULE.
- (ET3) TERMINAL STRIP CABINET PROVIDED BY CONTROLS CONTRACTOR WITH 2 POLE BREAKER. SEE ALSO CONDENSER TS & HR WIRING DETAIL.
- (E) EC MUST ALSO TIE INTO PERIMETER GROUND LOOP.
- (C1) #1/2 #14 & (1) #10 & #10G FOR GENERATOR CONTROL PANEL (1) #14 - REMOTE START, (1) #14 - ANNUNCIATOR, (1) #10 - BATTERY CHARGE WIRING MUST BE STRANDED.
- (G) GENERATOR SET FURNISHED WITH MECHANICAL / ELECTRICAL Pkg. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- (L) LAST 6 FT AT GENSET SHALL BE LIQUIDTIGHT FLEXIBLE CONDUIT.
- (N) TRANSFER SWITCH FOR NON ESSENTIAL EMERGENCY POWER SHALL BE CONTROLLED SUCH THAT IT WILL OPEN IF THE GENERATOR SUPPLY SAGS MORE THAN 10%.
- (R) POWER WIRING FOR THE REFRIGERATION COMPRESSOR RACKS SHALL BE FACTORY WIRED THROUGH CONTROL PANEL MOTOR CONTACTORS TO MOTOR LEADS AND THROUGH VFD TO LINE CONDENSERS. POWER WIRING FROM THE LINE CONDENSERS TO THE CONDENSERS SHALL BE FIELD RUN BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING SHALL BE FACTORY WIRED IN THE CONTROL PANEL AND LEFT READY FOR THE FIELD CONTROL WIRING OF THE CONDENSERS BY THE CONTROLS CONTRACTOR.
- (T) AUTOMATIC TRANSFER SWITCH 100 AMP, 14,000 AIC RMS SYMMETRICAL
- (G2) EC TO PROVIDE SERVICE SYSTEM GROUND ROD AND BOND TO WATER MAIN AS PER NEC
- (S1) CONDUIT SHALL BE CONCRETE ENCASED SCHEDULE 40 PVC MEETING NEMA STANDARD TC-2 W/ FITTINGS MEETING NEMA STANDARD TC-2 INSTALLATION SHALL CONFORM TO NFPA 70 THE NATIONAL ELECTRIC CODE AND ANSI "NATIONAL ELECTRICAL SAFETY CODE". EQUIPMENT SHALL BE OUTDOOR (NEMA 3R, PADMOUNTED)



COMPRESSORS, CONDENSORS & OIL SEPARATORS:	
<p>Rack A Refrigerant R-507 Voltage 460 V Cond temp 110 F</p> <p>Suction Temp -15 F Load 72,970 Btu/hr Av EER 5.6 Total Capacity 88,263 Btu/hr Capacity/Load 121%</p> <p>Compressors Btu/hr watts EER RLA Unloading Notes</p> <p>Carlisle 06DR725 (507 LT 460v) 32,917 5,838 5.6 14.1 none</p> <p>Carlisle 06DR725 (507 LT 460v) 32,917 5,838 5.6 14.1 none</p> <p>Carlisle 06DR316 (507 LT 460v) 22,429 4,102 5.5 9.6 1/2</p>	<p>Rack B Refrigerant R-507 Voltage 460 V Cond temp 110 F</p> <p>Suction Temp 20 F Load 509,152 Btu/hr Av EER 8.9 Total Capacity 645,614 Btu/hr Capacity/Load 127%</p> <p>Compressors Btu/hr watts EER RLA Unloading Notes</p> <p>Carlisle 06EM475 (507 MT 460v) 244,297 27,427 8.9 56.0 none</p> <p>Carlisle 06EM475 (507 MT 460v) 244,297 27,427 8.9 56.0 none</p> <p>Carlisle 06EM450 (507 MT 460v) 157,019 18,105 8.7 36.0 1/2</p> <p>Condenser: Model # CanCoil BACF029-5 module # of fans 5 1.5 hp each Rating 70,500 Btu/hr/F Total HP 7.5 Heat of Rejection 705,445 Btu/hr TD 10.0 F</p> <p>Oil Separator Temprite 930R</p>
<p>Suction Temp -25 F Load 137,726 Btu/hr Av EER 4.8 Total Capacity 164,811 Btu/hr Capacity/Load 120%</p> <p>Compressors Btu/hr watts EER RLA Unloading Notes</p> <p>Carlisle 06ER465 (507 LT 460v) 67,300 13,905 4.8 44.0 none</p> <p>Carlisle 06ER450 (507 LT 460v) 55,529 12,003 4.6 36.0 none</p> <p>Carlisle 06DR337 (507 LT 460v) 41,982 8,468 5.0 22.1 1/3</p> <p>Condenser: Model # CanCoil BACF029-3 module # of fans 3 1.5 hp each Rating 42,300 Btu/hr/F Total HP 4.5 Heat of Rejection 353,137 Btu/hr TD 8.3 F</p> <p>Oil Separator Temprite 928R</p>	<p>Rack C Refrigerant R-507 Voltage 460 V Cond temp 110 F</p> <p>Suction Temp 15 F Load 213,949 Btu/hr Av EER 8.6 Total Capacity 246,966 Btu/hr Capacity/Load 115%</p> <p>Compressors Btu/hr watts EER RLA Unloading Notes</p> <p>Carlisle 06DR228 (507 MT 460v) 90,611 10,626 8.5 19.8 none</p> <p>Carlisle 06DR228 (507 MT 460v) 90,611 10,626 8.5 19.8 none</p> <p>Carlisle 06DR820 (507 MT 460v) 65,743 7,523 8.7 15.7 1/2</p> <p>Condenser: Model # CanCoil BACF029-2 module # of fans 2 1.5 hp each Rating 28,200 Btu/hr/F Total HP 3.0 Heat of Rejection 298,994 Btu/hr TD 10.6 F</p> <p>Oil Separator Temprite 928R</p>



NO.	DATE	BY	DESCRIPTION

Hannaford
Riverside Street
Portland, Maine

POWER RISER DIAGRAM

DESIGN	DATE	BY	CHECKED	DATE