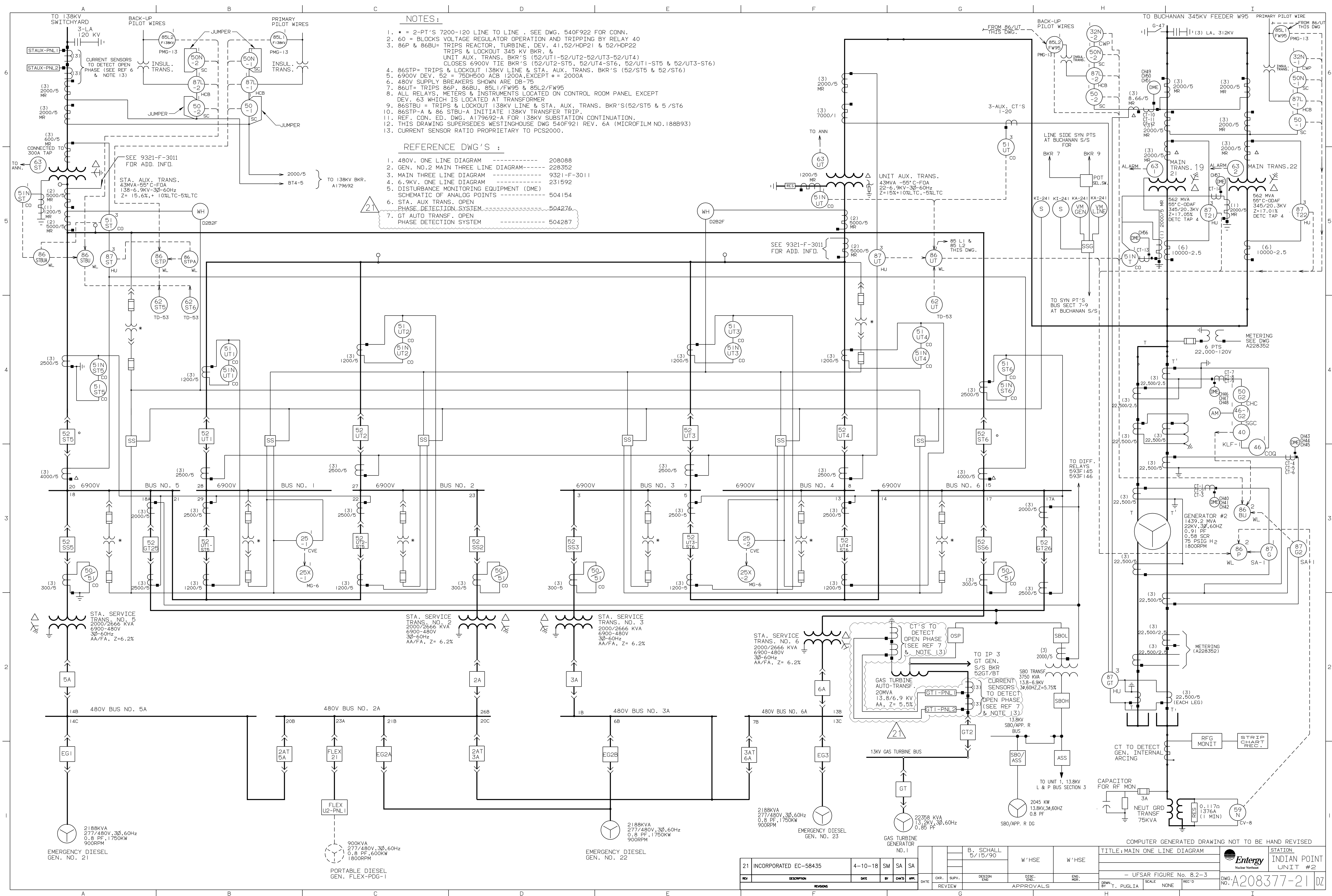



- NOTES:
- SEE REFERENCE DRAWINGS FOR ALL ADDITIONAL CONNECTIONS TO SWITCHGEAR AND CONTROL CENTERS.
  - \* DISTRIBUTION LOAD
  - MOLDED CASE SWITCH  
W CAT #RHA-2100N  
THIS SWITCH IS NOT TO BE USED  
TO OPEN ENERGIZED CIRCUIT
  - \* STATED CAPACITY IS THE NOMINAL FOR 8 HOUR DISCHARGE TO 1.75 V PER CELL FINAL.
  - FOR MORE DETAILED VERSION REFERENCE DWGS. 141D186, 141D187, AND 136D936
  - 33332M C-PHASE RETIRED, A PHASE SPARED. 33332L B PHASE SPARED.
  - THE PRIMARY PHASE II CONNECTION FOR THE FLEX PHASE II 600 KW PDS TO THE 480V SWGR IS TO CONNECT TO FLEX-U2-PNL1 USING TEMPORARY FLEX CABLES. SEE DETAIL A.
  - THE ALTERNATE PHASE II CONNECTION FOR THE FLEX PHASE II 600 KW PDS IS TO THE LIGHTING SWITCHGEAR XFMR 22 AND 23 FEEDER CABLES FROM THE 480V SWGR, BOLTED TO TEMPORARY FLEX CABLES. SEE DETAIL A. FOR DETAILED STEPS TO MAKEUP THE CONNECTION TO LTG SWGR FEEDERS, REFER TO DRAWING 504075.
  - ALTERNATE CONNECTION FOR FLEX PHASE III PORTABLE DIESEL GENERATOR IS BUS 6A CUBICLE 12B. WILL REQUIRE CIRCUIT BREAKER 52/TAO TO BE REMOVED TO INSERT FLEX LOAD CONNECTION DEVICE.
  - THE PRIMARY CONNECTION OF THE FLEX PHASE III PORTABLE DIESEL GENERATOR IS BUS 3A CUBICLE 4B. FLEX LOAD CONNECTION DEVICE RACKS INTO CUBICLE IN PLACE OF BREAKER.

REFERENCE DRAWINGS:

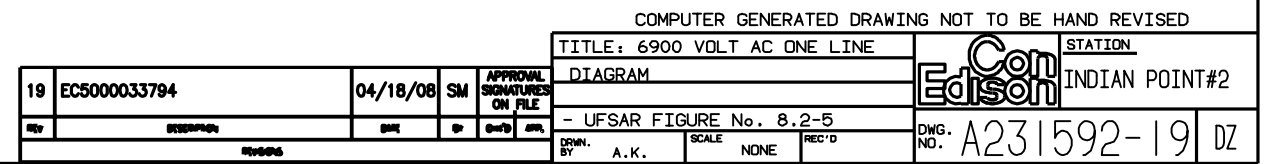
480VAC SWITCHGEAR BUSES 1-LINE.....A208088  
MAIN AC 1-LINE.....A208377  
118 VAC INSTRUMENTATION BUS 1-LINE.....A208502  
6.9 KV 1-LINE.....A231592  
125 VDC POWER PANELS 1-LINE.....9331 F-3008  
ONE LINE DIAGRAM 13.8KV & 440 SYSTEM...138040  
ONE LINE LIGHTING POWER SUPPLY SYSTEM...251037

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED									
TITLE: ELECTRICAL DISTRIBUTION AND TRANSMISSION SYSTEM					STATION: INDIAN POINT				
- USFAR FIG. NO. 8.2-1 & 8.2-2					DWG. NO. 250907-39				
BY: BOWE/WATKINS					SCALE: NONE				
APPROVALS					DATE: 08/02/18				
F. HOFFMAN					G. BLENKLE				
A. KAFFASHAN					9/12/91				
INCORPORATED EC-78122					39				
REVISIONS					DESCRIPTION				
08/02/18					OG				
APPROVAL SIGNATURES ON FILE					DATE				
F. HOFFMAN					DATE				
A. KAFFASHAN					DATE				



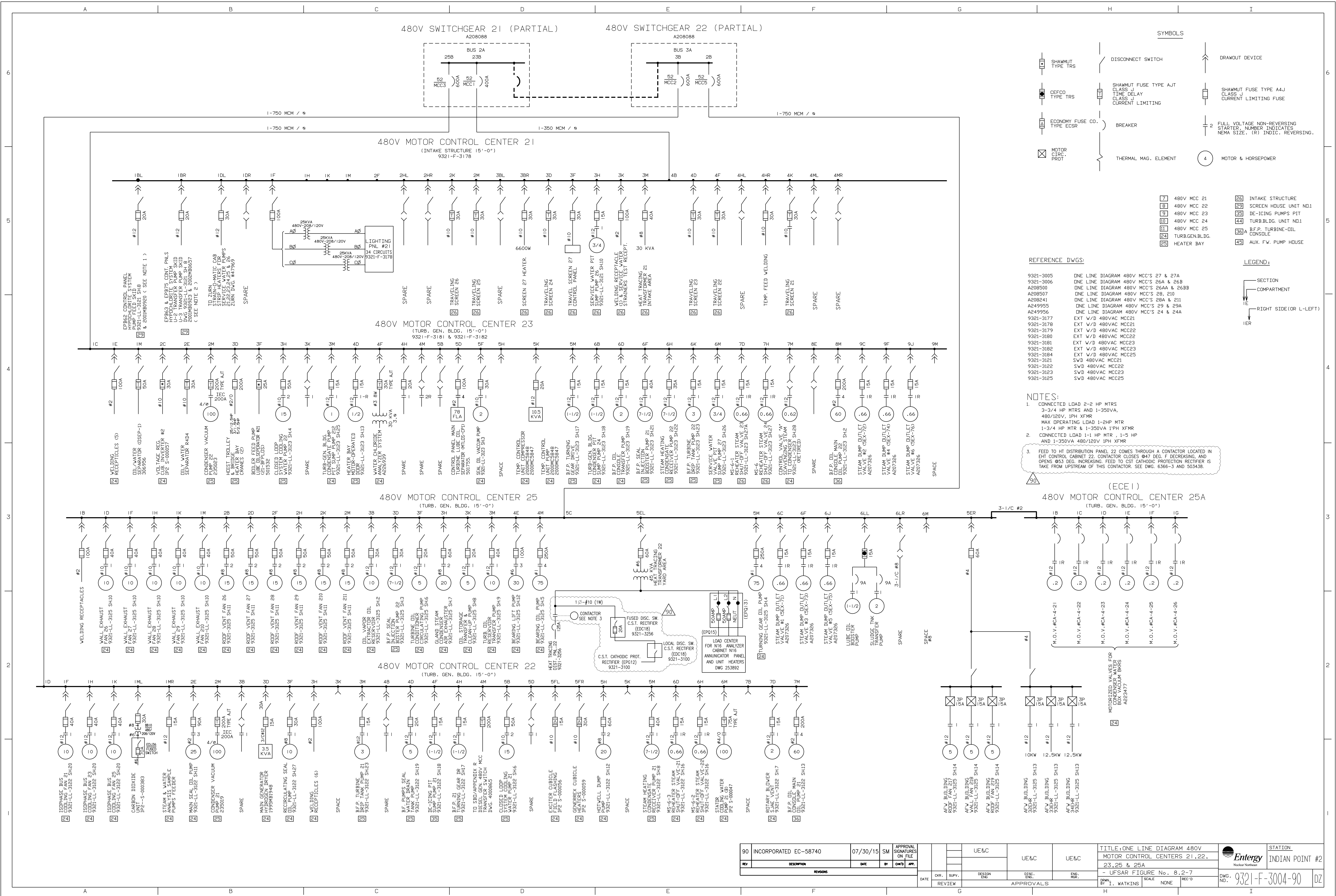
GAS TURBINE GENERATOR NO. 1										COMPUTER GENERATED DRAWING NOT TO BE HAND REVISION											
21 INCORPORATED EC-58435				4-10-18		SM	SA	SA	B. SCHALL 5/15/90		W'HSE		W'HSE		TITLE: MAIN ONE LINE DIAGRAM				 STATION INDIAN POINT UNIT #2		
REV	DESCRIPTION			DATE	BY	CHKD	APP.	DATE	CHKD.	SUPV.	DESIGN ENG	DISC. ENG	ENG. NOX.	- UFSAR FIGURE No. 8-2-3				DWG NO.: A208377-21			
REVISIONS								APPROVALS						DOWN BY: PUGLIA		SCALE: NONE	REV'D	I			
F								G						H		I					

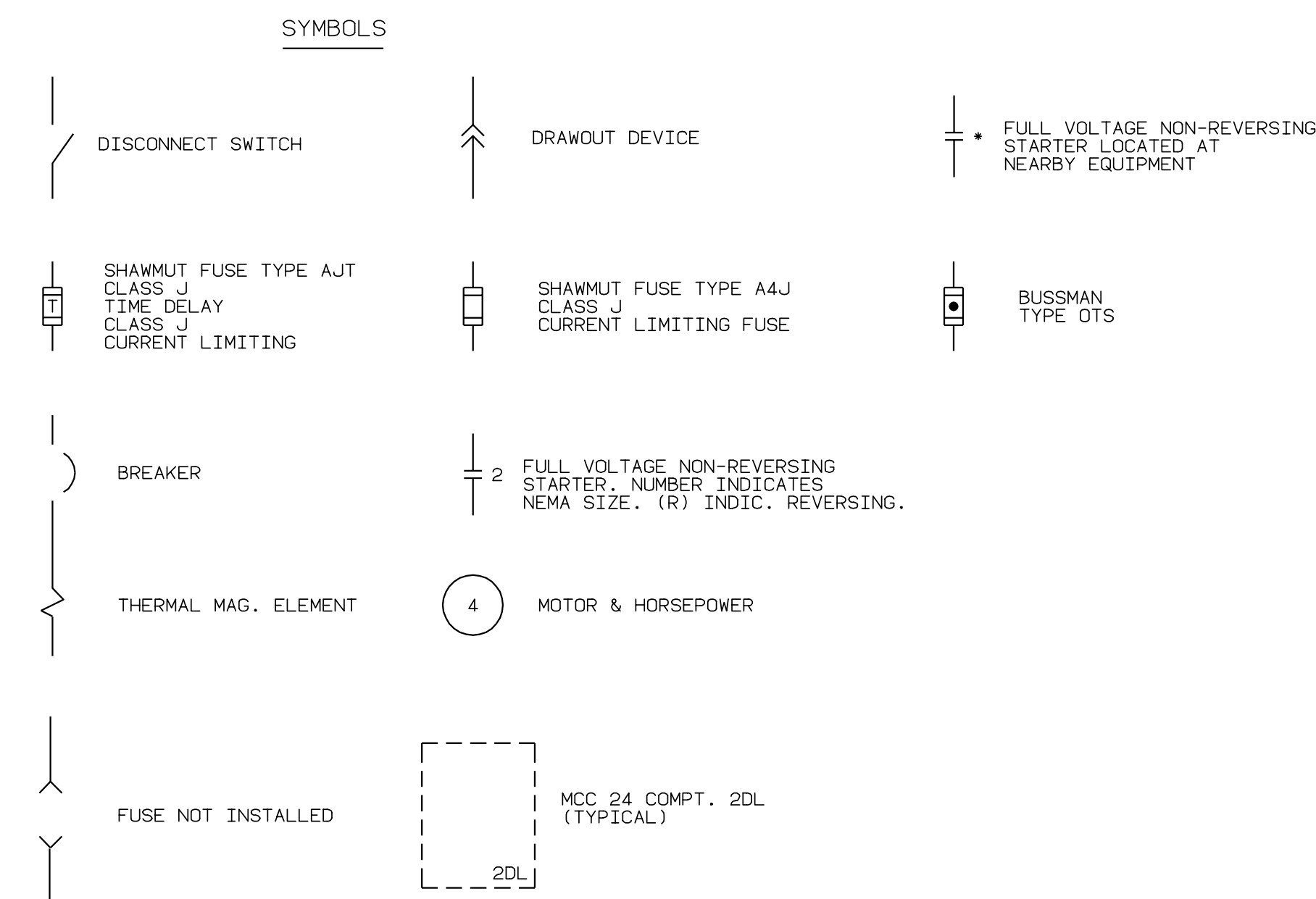
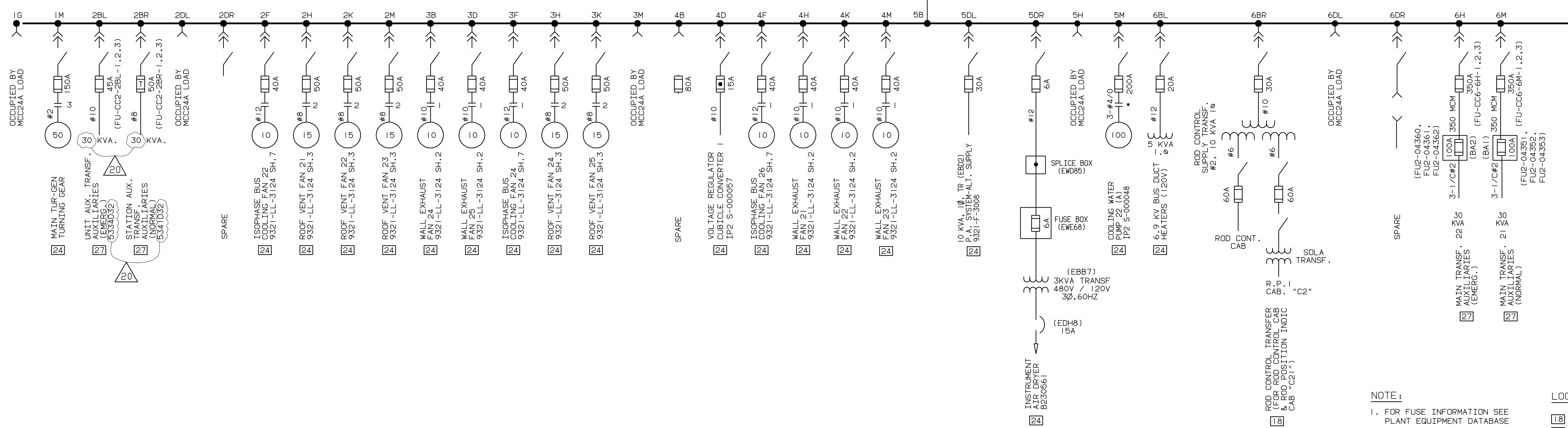
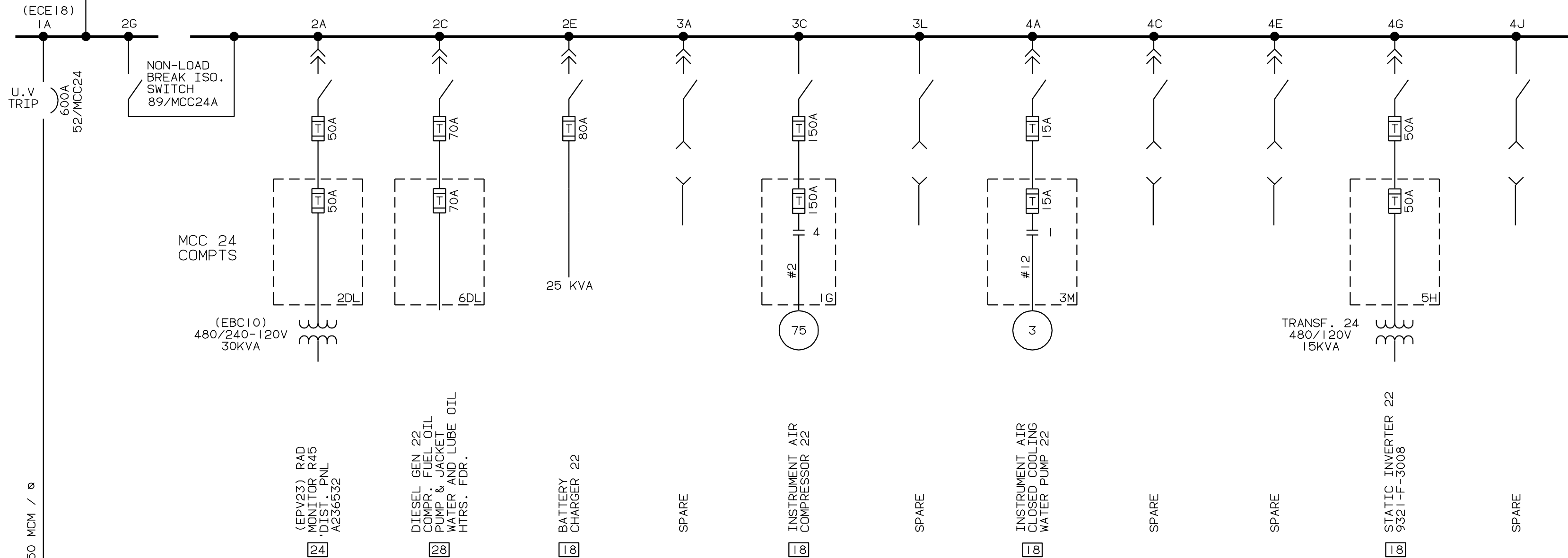
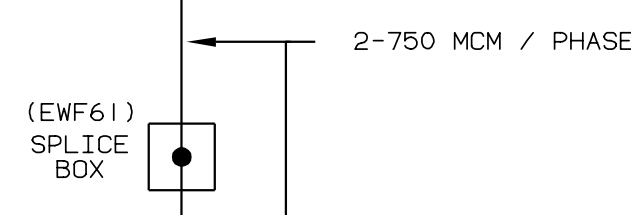
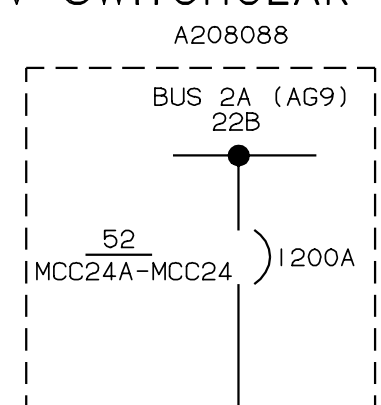












NOTE:

1. FOR FUSE INFORMATION SEE  
PLANT EQUIPMENT DATABASE

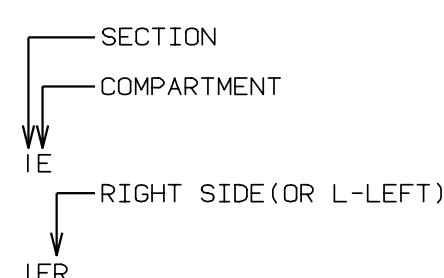
## LOCATIONS

18 CONTROL BLDG.  
24 TURB.GEN.BLDG.  
27 TRANSFORMER YARD  
28 DIESEL GEN. BLDG.


REFERENCE DWGS:

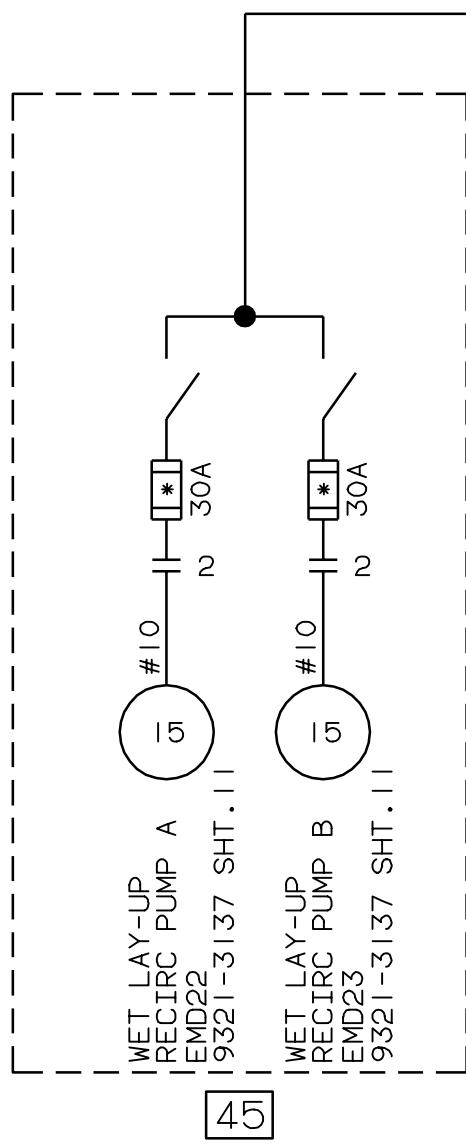
9321-F-3004	ONE LINE DIAGRAM	480V	MCC'S 1, 2, 22, 23, 25 & 25A
9321-F-3005	ONE LINE DIAGRAM	480V	MCC'S 27
9321-F-3006	ONE LINE DIAGRAM	480V	MCC'S 26A & 26B
9321-F-3183	WIRING DIAGRAM	MCC 24	
A208500	ONE LINE DIAGRAM	480V	MCC'S 26AA & 26BB
A208507	ONE LINE DIAGRAM	480V	MCC'S 28, 29, 210
A208241	ONE LINE DIAGRAM	480V	MCC'S 28A & 211
A249955	ONE LINE DIAGRAM	480V	MCC'S 29 & 29A

LEGEND:

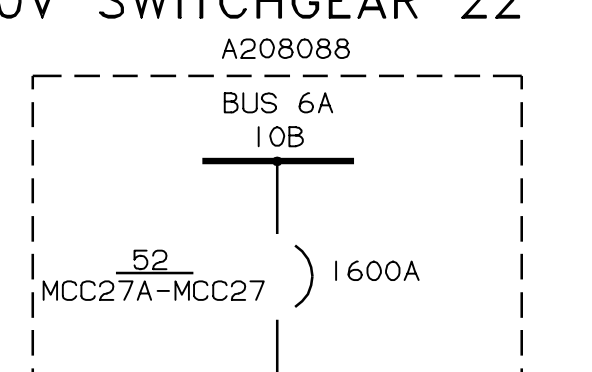
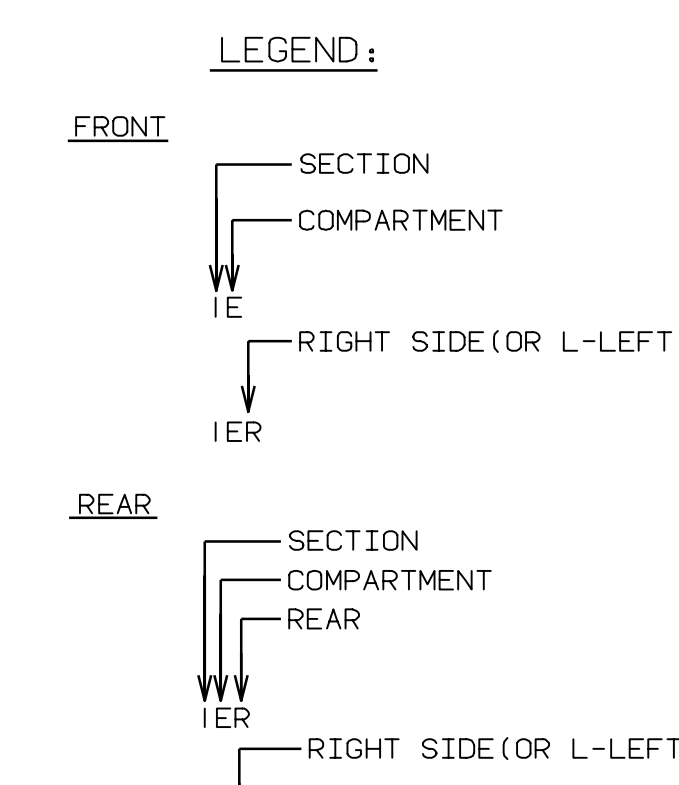
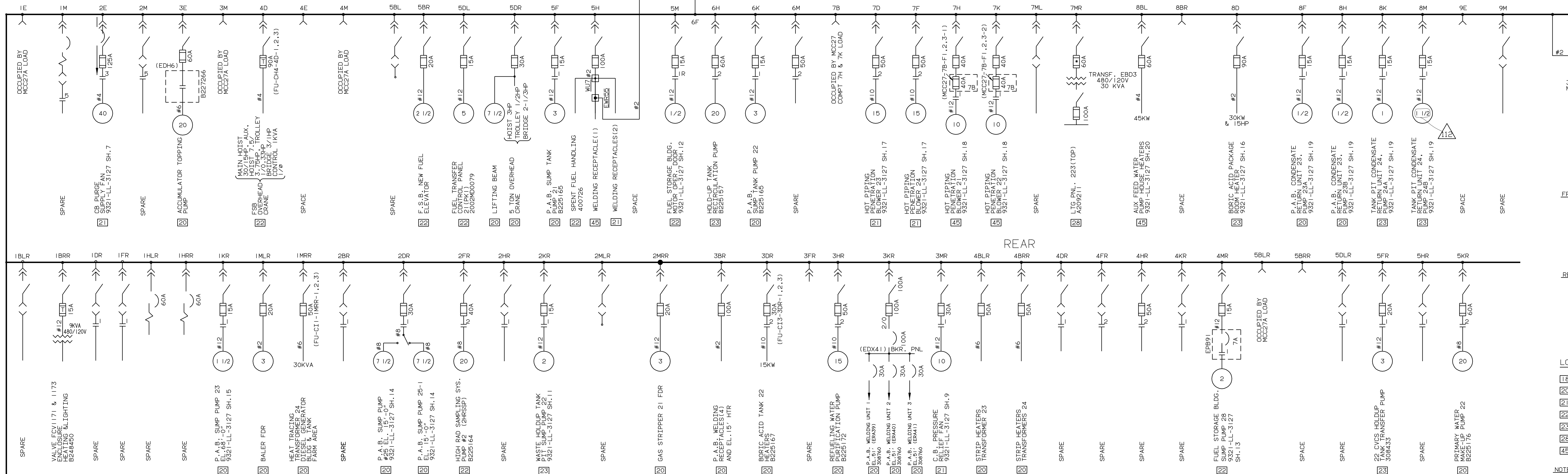
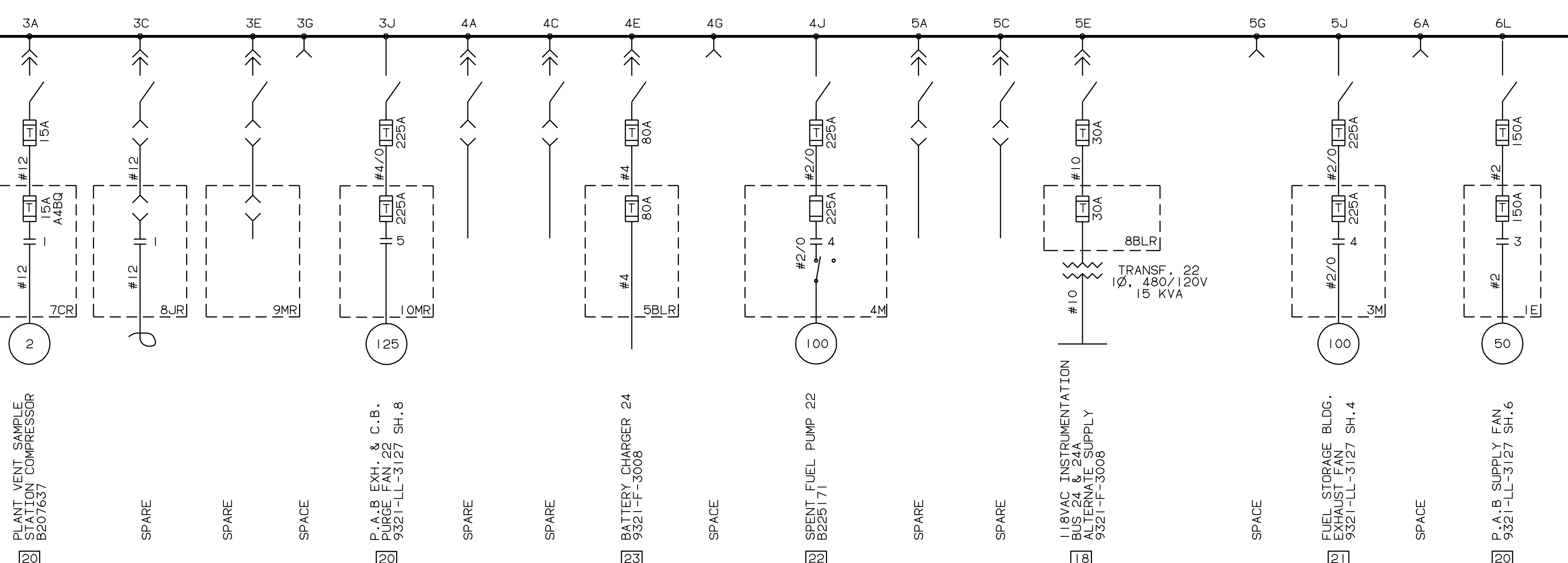


COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

20		INCORPORATED EC-54990		3/23/16		SM	APPROVAL SIGNATURES ON FILE		TITLE: ONE LINE DIAGRAM 480V MCC 24 & 24A				 <div>STATION INDIAN POINT #2</div>		
REV		DESCRIPTION		DATE		BY	CHWG	APP.	- USFAR FILING No. 8.2-7A				DWG. NO. A249956-20		DZ
		REVISIONS							DRAWN BY K. FOLEY		SCALE NONE	REC'D			
G				H				I							



480V SWITCHGEAR 22 (PARTIAL)

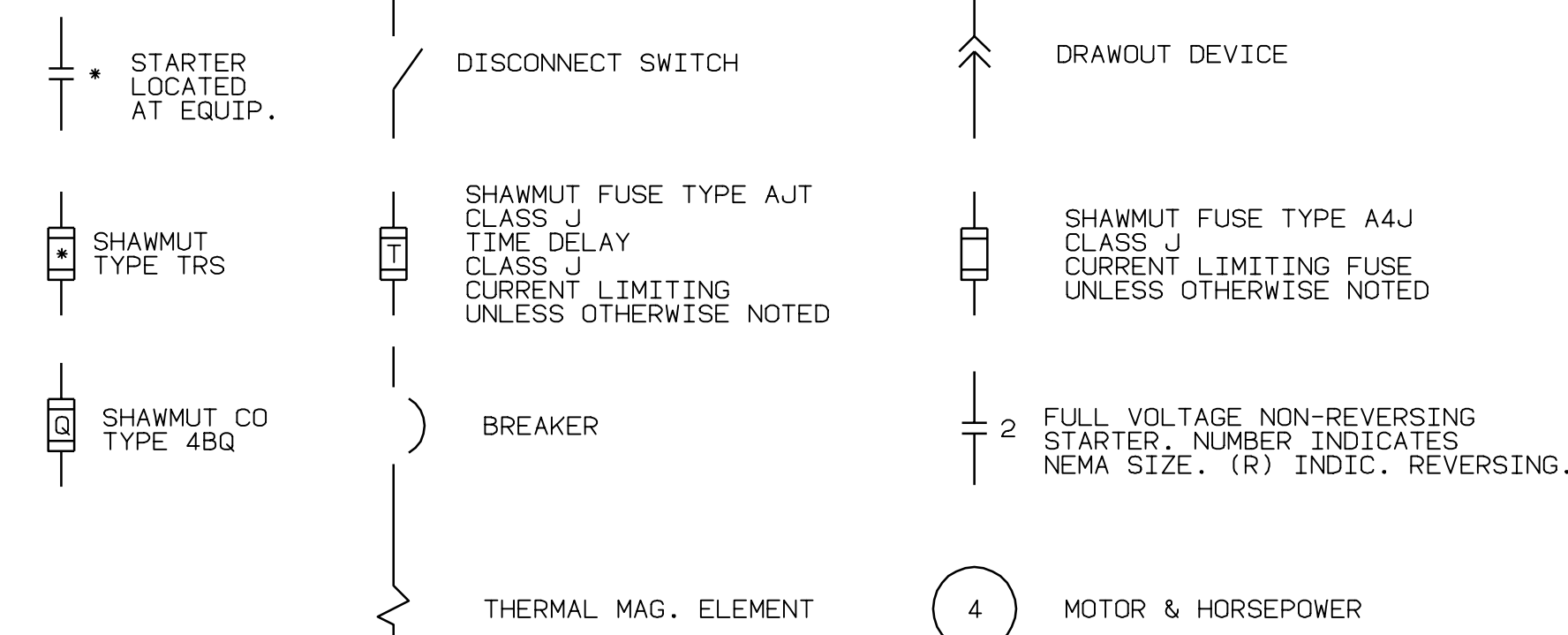
MCC 27  
COMPTS


### LOCATIONS

<u>18</u>	CONTROL BLDG.
<u>20</u>	PRIMARY AUX BLDG.
<u>21</u>	FAN ROOM
<u>22</u>	FUEL STORAGE BLDG.
<u>23</u>	TANK PIT BLDG. & BORIC ACID PACKING ROOM
<u>28</u>	DIESEL BLDG.
<u>45</u>	AUX FEED WATER PUMP HOUSE

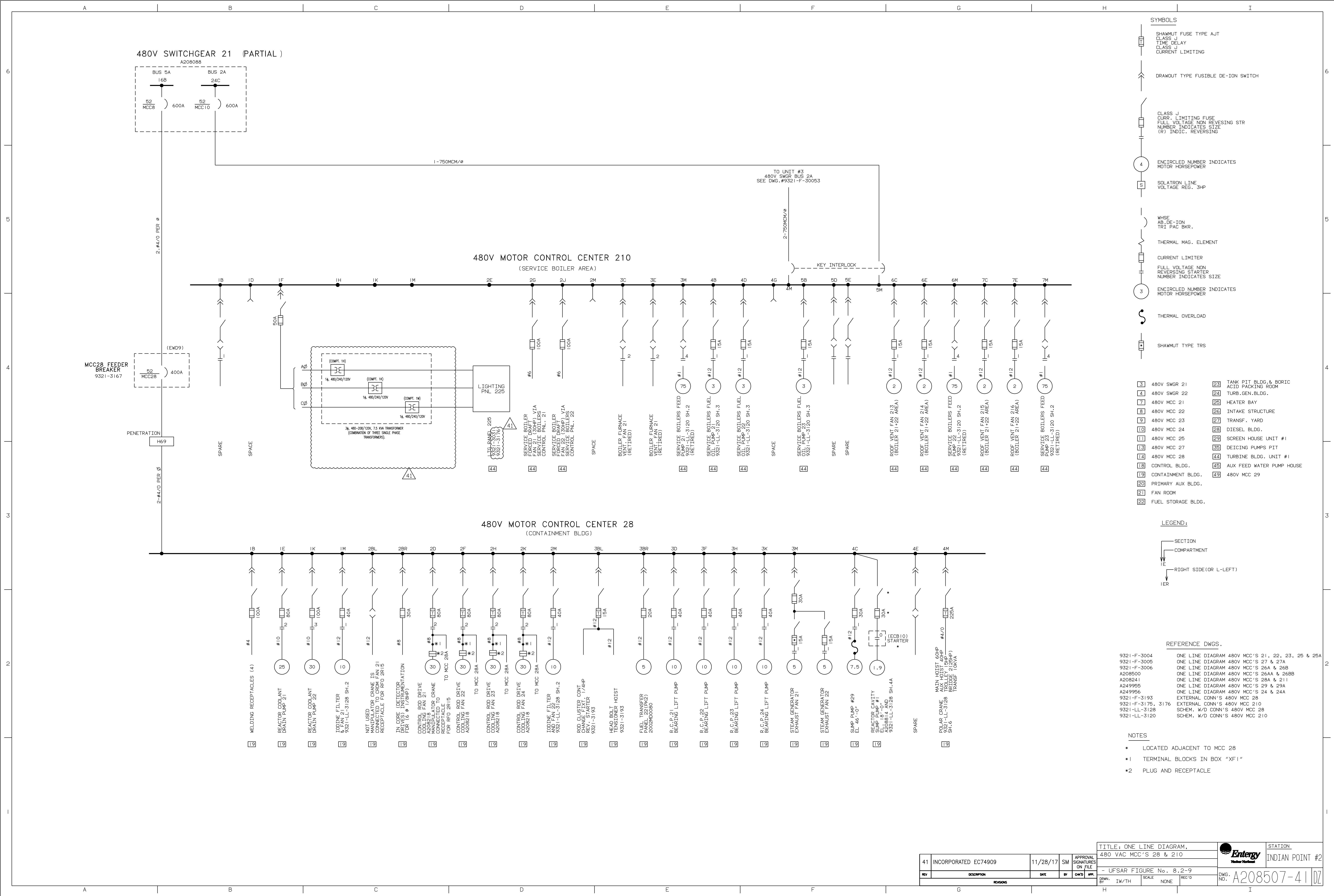
NOTE

1. FOR OTHER CONN'S ASSOCIATED WITH THIS  
DWG. SEE DWG.A208507

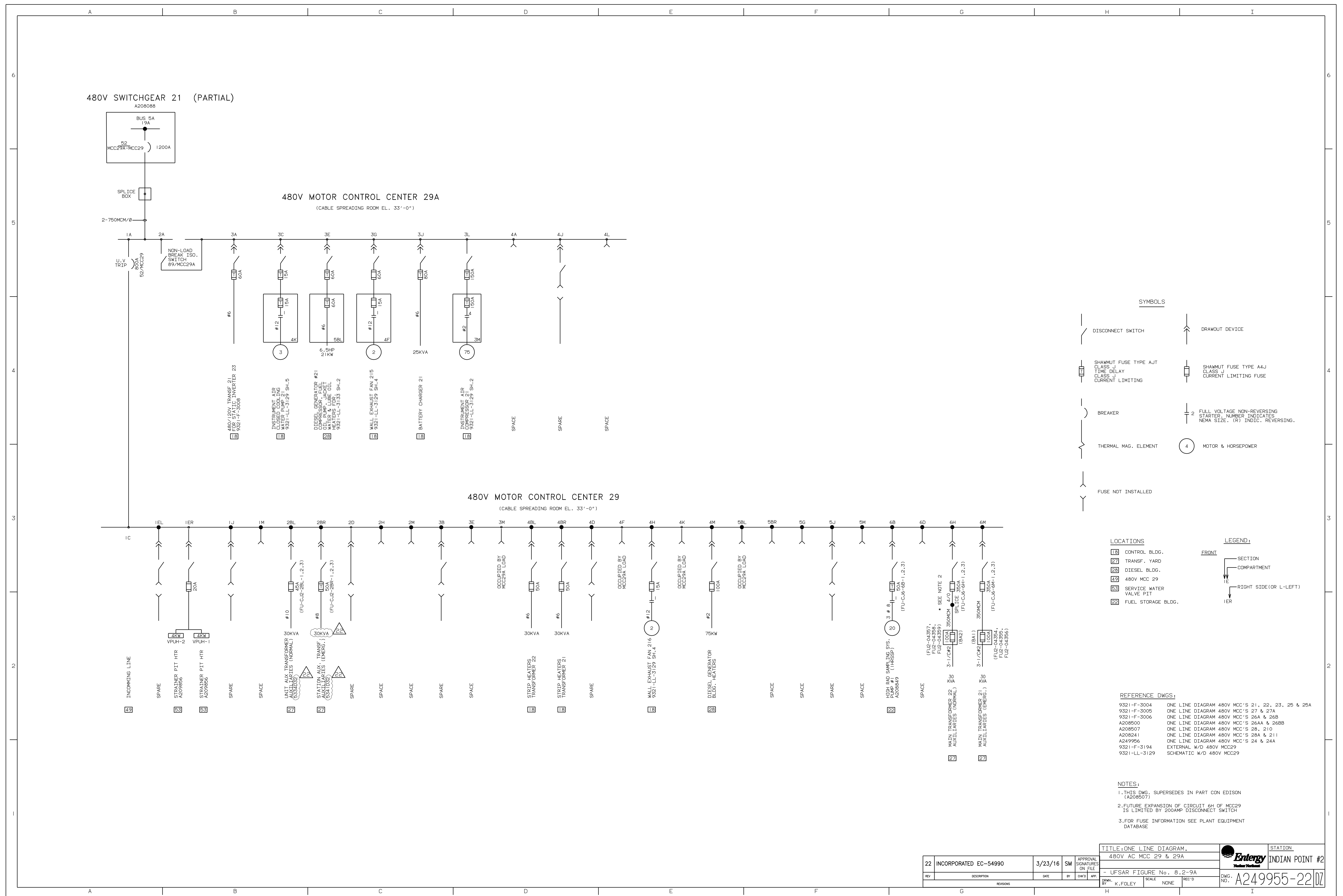


					TITLE: ONE LINE DIAGRAM 480V MOTOR CONTROL CENTER 27 & 27A					STATION INDIAN POINT #2	
112	INCORPORATED EC 62519			01/21/16	SM	APPROVAL SIGNATURES ON FILE					
REV	DESCRIPTION			DATE	BY	CHK'D	APP.				
REVISIONS								DWG. NO. 9321-F-3005-112		07	

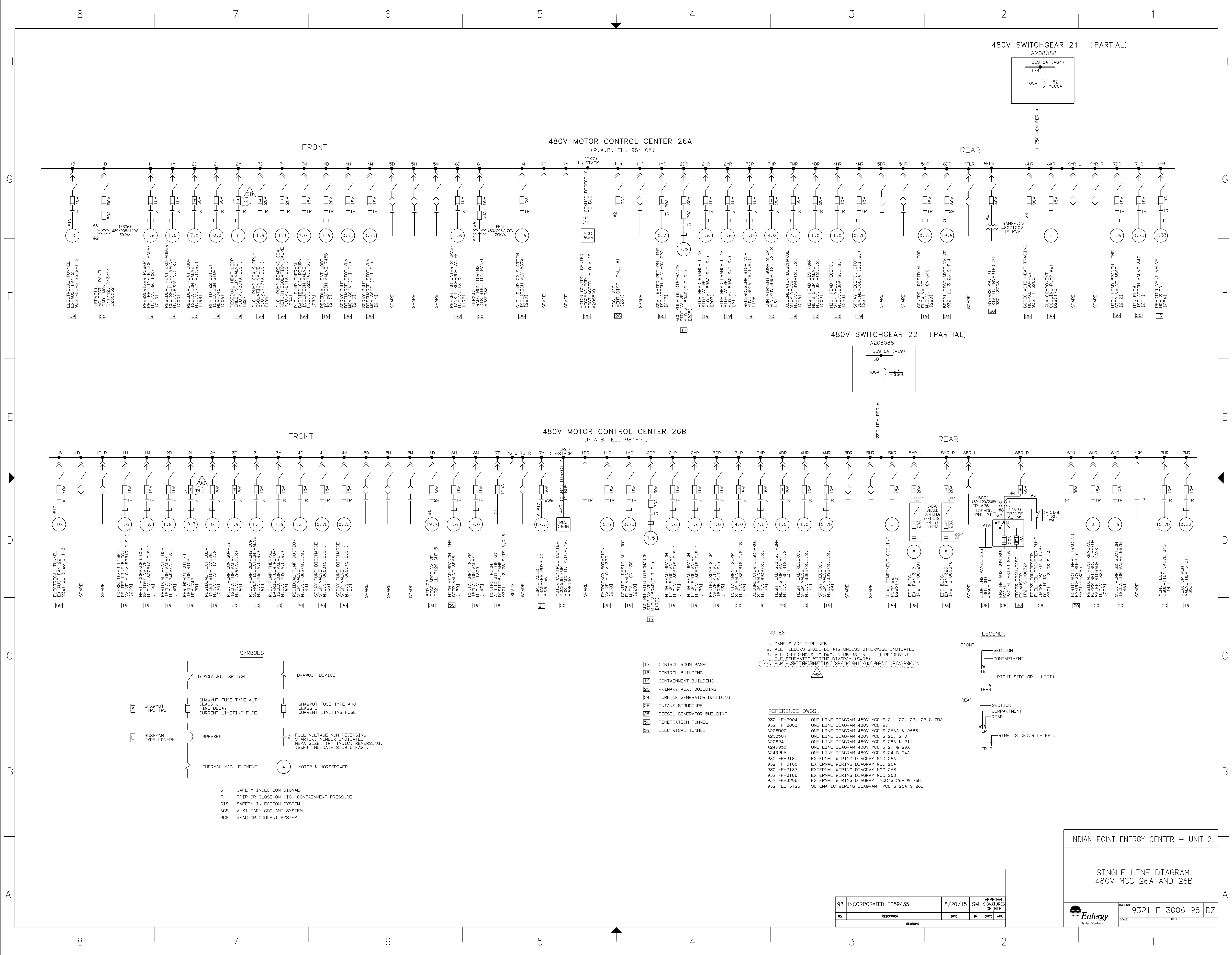




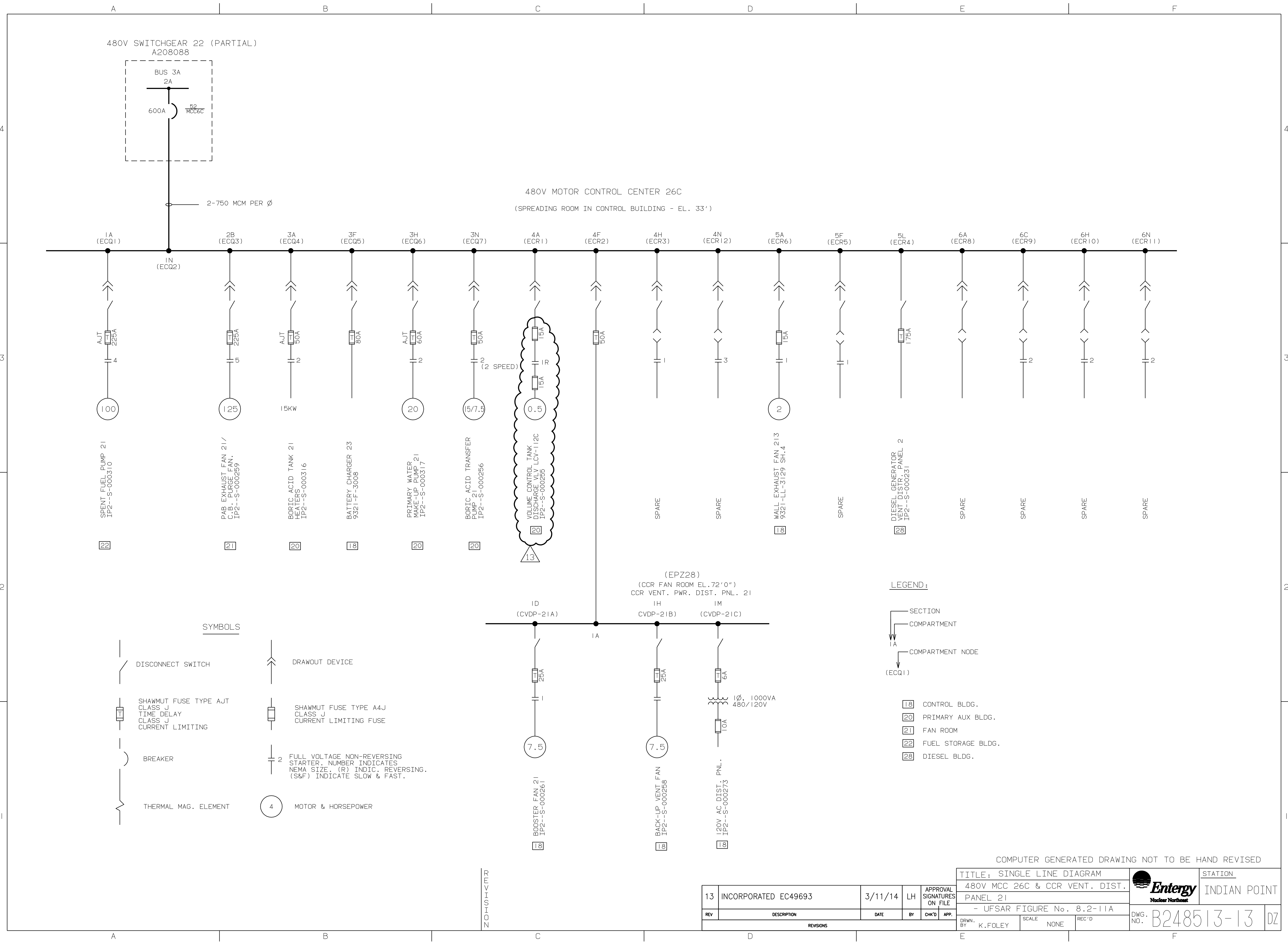


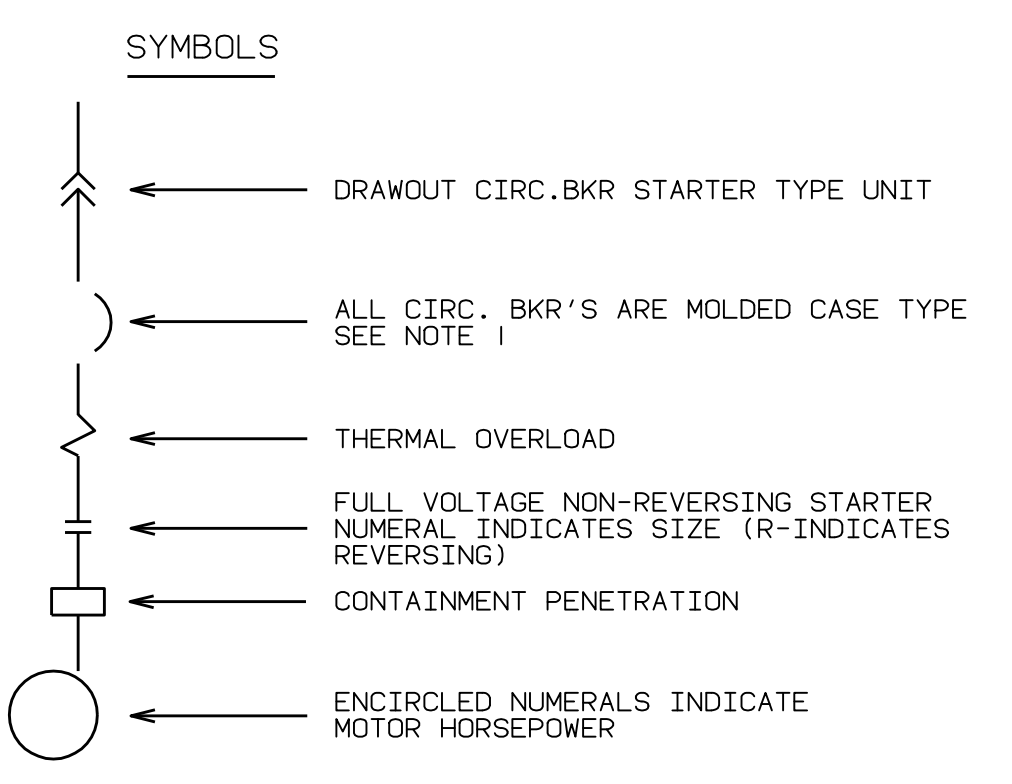












- INDICATES M.O.V. TO BE PADLOCKED, WITH CONTROL FOR EACH ONE.
- SW. (CLOSE-OPEN) AND 2 INDIC. LTS. (GREEN-RED)
  - INDICATES CONTROL FROM SAMPLING PNL. #1
  - INDICATES CONTROL FROM SAMPLING PNL. #2
  - DWG. #A209503
  - CIRC. BKR. KLOCKNER-MOELLER TYPE NZM H9-250
  - CIRC. BKR. KLOCKNER-MOELLER TYPE NZM H6-63
  - CIRC. BKR. KLOCKNER-MOELLER TYPE NZM H6-100
- NOTES:**
- EXCEPT AS NOTED, ALL BREAKERS ARE KLOCKNER-MOELLER TYPE NZMB, WITH ADJUSTABLE TRIP SETTINGS. FOR INDIVIDUAL BREAKER INFORMATION, REFER TO INDUS. BILL OF MATERIALS.
  - REFER TO EDB FOR FUSE INFORMATION.
  - FUSES MOUNTED IN COMPT. L5 FOR MCC 26AA AND COMPT. B5 IN MCC26BB

**REFERENCE DWG:**

9321-F-3006 ONE LINE DIAGRAM 480V MCC'S 26A & 26B  
208523 MCC 26AA EXTERNAL W/D  
208524 MCC 26AA EXTERNAL W/D  
208525 MCC 26BB EXTERNAL W/D  
208526 MCC 26BB EXTERNAL W/D  
208532 120VAC DIST. PNL'S (M2 EXTERNAL W/D  
208397 MCC 26AA & MCC 26BB EXTERNAL W/D  
256927 M.O.V. INFO. -1995 REFUEL OUTAGE  
255880 M.O.V. INFORMATION

48	INCORPORATED EC-50865	03/08/16	SUB	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHKD APP.
REVISIONS				

INDIAN POINT ENERGY CENTER - UNIT 2

ONE LINE DIAGRAM FOR 480VAC MCC-26AA AND MCC-26BB & 120VAC DISTRIBUTION PANELS 1 & 2

Entergy Nuclear

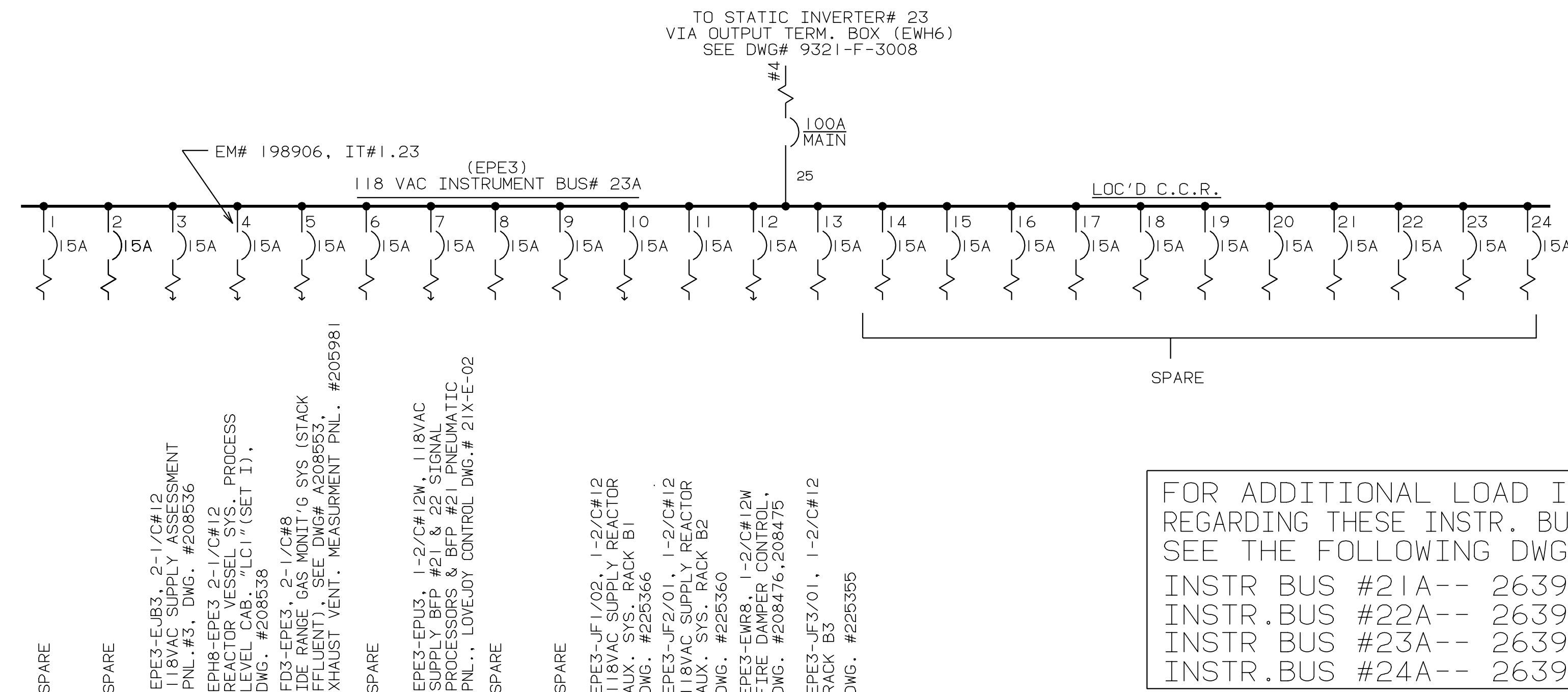
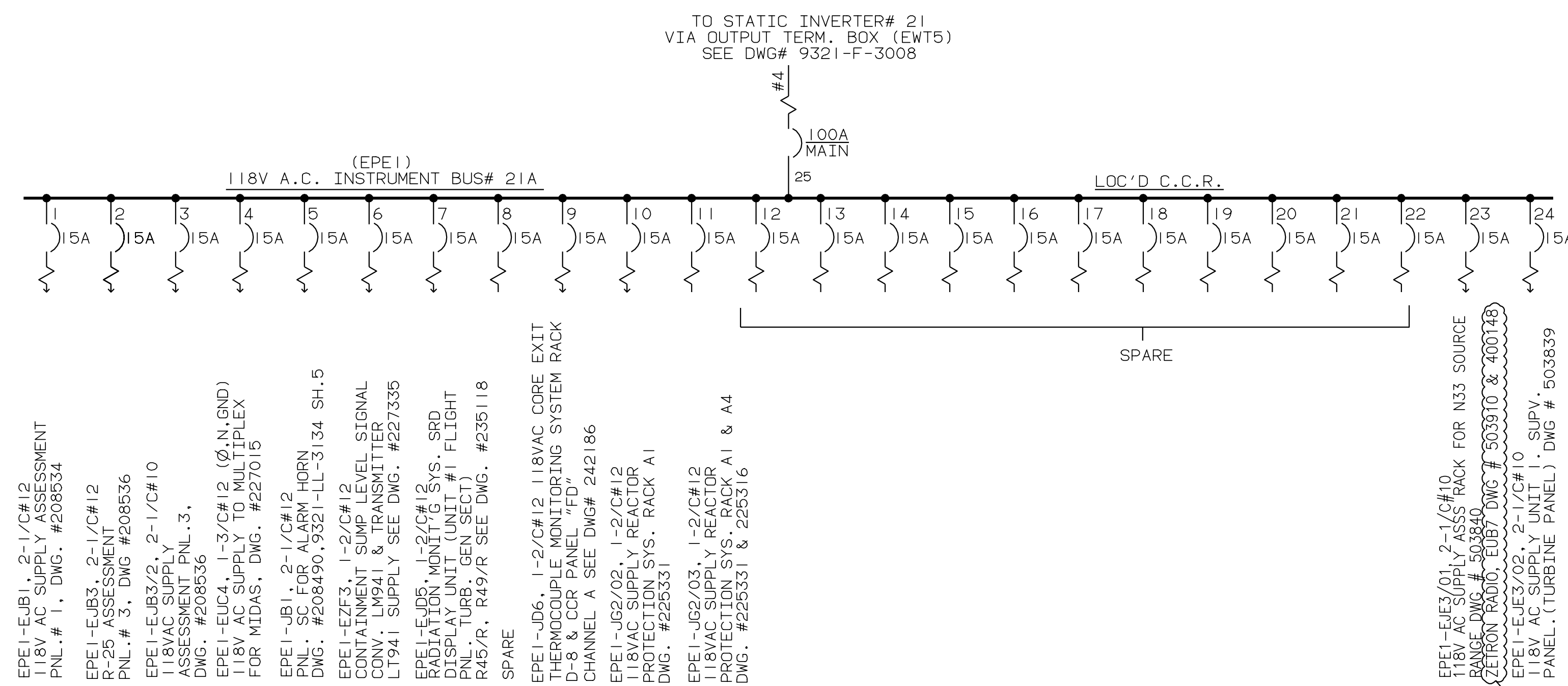
DWG NO. 208500  
SCALE NONE  
SHEET


REV 48









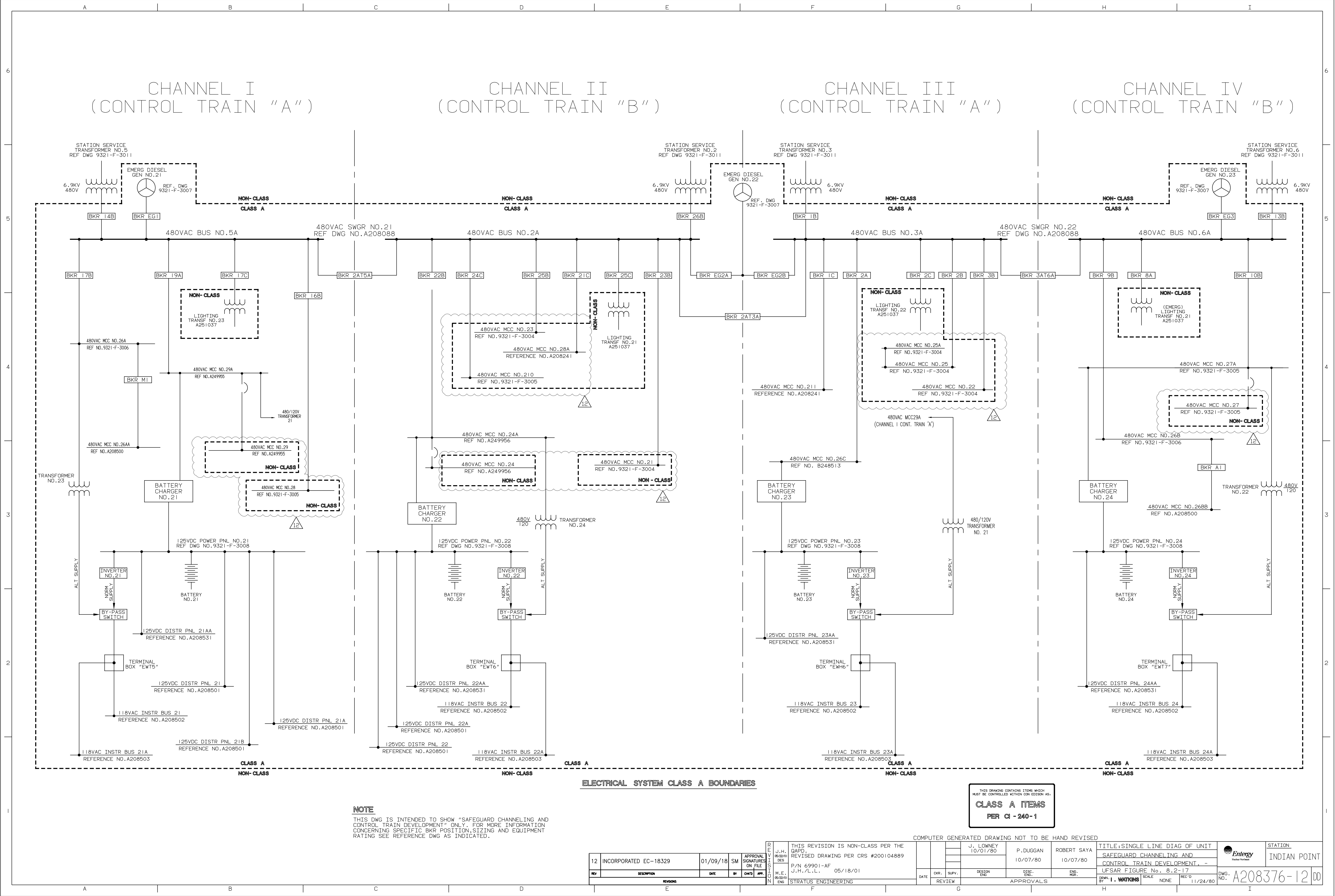
37		INCORPORATED EC45124	03/14/15	MP	APPROVAL SIGNATURES ON FILE		TITLE: SCHEM DIA OF 118 VAC INST BUSES 21A, 22A, 23A AND 24A (LOCATED IN CCR) = UFASR FIGURE No. 8, 2-14				 STATION INDIAN POINT #2	
REV	DESCRIPTION		DATE	BY	CHD	APP	MOD, PRG, OR SPEC	SCALE	NONE	REC'D	DWG. NO.: A208503-37	
	REVISIONS						DRWN, CHD, MAT'G TMS				DZ	











19L902  
INDIAN POINT  
CABLE TRAY SEPARATION

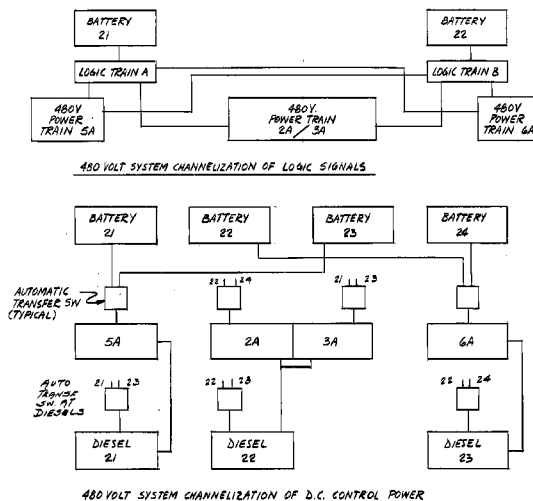
CHANNEL/ CONTROL/ TRAIN / SEPARATION DESIGNATIONS	FUNCTION	PHYSICAL ROUTING DESIGNATIONS (SEE NOTE 5)
I (RED)	120 VOLT A.C. INSTRUMENT BUS FEEDS AND ANALOG & DIGITAL SIGNAL OUTPUTS ASSOCIATED WITH 120 VOLT A.C. INSTRUMENT BUSES 21, 22, 23 & 24 RESPECTIVELY	J1 } FOR PROTECTION SYSTEM CIRCUITRY CHANNEL / ROUTING ASSOCIATIONS ARE FIXED (I IN J1, II IN J2, ETC.) SPECIAL EXCEPTIONS (E.G. A CHANNEL I CIRCUIT ROUTED IN A J2, J3 OR J4) MUST BE APPROVED BY E.E. AND WILL ONLY BE PERMITTED FOR NON-SAFETY (NON-IE) FUNCTIONS ALL PORTIONS OF A PARTICULAR INSTRUMENT LOOP SHALL BE ROUTED IN THE SAME CHANNEL.
II (WHITE)		J2
III (BLUE)		J3
IV (YELLOW)		J4
CONTROL TRAIN A (RED)	120VOLT D.C. CONTROL AND SMALL POWER FEEDS ASSOCIATED WITH 120 VOLT D.C. BATTERIES 21 AND 22 RESPECTIVELY *	K1
CONTROL TRAIN B (WHITE)	* IN THE ORIGINAL PLANT DESIGN ONLY TWO BATTERIES (BATTERIES 21 & 22) EXISTED AND REDUNDANT (TRAIN A AND TRAIN B) CONTROL SIGNALS ARE SENT TO EQUIPMENT IN EACH POWER TRAIN THIS PERMITS THE 3RD POWER TRAIN ASSOCIATED WITH 480 VOLT BUSES 2A AND 3A TO MEET SINGLE FAILURE CRITERIA	K2
480VOLT M.C.C. POWER TRAIN 5A AND ASSOCIATED 120VOLT A.C. (M.C.C. CONTROL TRANSFORMER) SHALL POWER & CONTROL CIRCUITS (RED)	480V. M.C.C. POWER & CONTROL	K1 SEE NOTE #14
480 VOLT M.C.C. POWER TRAIN 6A (YELLOW)	" " " " " "	K2 SEE NOTE #14
480 VOLT M.C.C. POWER TRAIN 2A (WHITE)	" " " " " "	VARIOUS "D" CHANNELS J22 NOTE #14
480 VOLT M.C.C. POWER TRAIN 3A (BLUE)	" " " " " "	VARIOUS "D" CHANNELS J23 NOTE #14
CONTROL TRAIN C (BLUE)	125 VOLT D.C. CONTROL AND SMALL POWER FEEDS ASSOCIATED WITH 125 VOLT D.C. BATTERY 23 (ADDED AFTER PLANT START-UP)	K3D AND VARIOUS "D" CHANNELS SEE NOTE #14
CONTROL TRAIN D (YELLOW)	125 VOLT D.C. CONTROL AND SMALL POWER FEEDS ASSOCIATED WITH 125 VOLT D.C. BATTERY 24 (ADDED AFTER PLANT START-UP)	SEE NOTE #14
HEAVY POWER BUS 5A (RED) (480 VOLT & BUS 6A (YELLOW) 125 VOLT D.C.) BUS 2A (WHITE) BUS 3A (BLUE)	480VOLT HEAVY POWER & 125 VOLT HEAVY POWER ASSOCIATED WITH 480V BUS 5A/BATTERY 21, 480 VOLT BUSES 2A & 3A/BATTERY 22 AND 480 VOLT BUS 6A RESPECTIVELY	C4 (ASSOCIATED WITH BUS 5A) C5 (ASSOCIATED WITH BUS 6A) C6 (ASSOCIATED WITH BUS 2A) C5 (ASSOCIATED WITH BUS 3A) SEE NOTE #4
D.C. CONTROL FEEDS FOR DIESELS	SPECIAL ROUTINGS ASSOCIATED WITH D.C. CONTROL FEEDS FOR DIESELS 21, 22 & 23 RESPECTIVELY THROUGH THE CONTROL TUNNEL	F (21) D.C. FEED FROM BATTERY 21 F (22) " " " " " " 22 F (23) " " " " " " 23 F (24) " " " " " " 24

## NOTES:

1. K1 AND K2 ARE THE KEY BASIC 480VOLT SMALL POWER AND 120VOLT M.C.C. ROUTING DESIGNATIONS. THESE DESIGNATIONS HAVE BEEN FURTHER EXPANDED IN THE RACEWAY SYSTEM TO PROVIDE ADDITIONAL ROUTING OF FUNCTIONAL INFORMATION

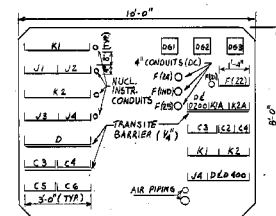
ROUTING ASSOCIATED WITH K1 480/120VAC EXCEPT AS NOTED	ROUTING ASSOCIATED WITH K2D BATTERY 22	ROUTING ASSOCIATED WITH K3D BATTERY 23	ROUTING ASSOCIATED WITH K2	ROUTING OR FUNCTIONS
K1 (RED)	—	—	K2 (YELLOW)	GENERAL DESIGNATIONS USED IN MOST AREAS OF THE PLANT AND FOR MOST FUNCTIONS ▲ D-2400 - EXISTS FOR THIRD TRAIN SEPARATION IN ORIGINAL PLANT DESIGN
K1A (RED)	—	—	K2A (YELLOW)	ROUTING BETWEEN DIESEL AND CONTROL BUILDING * D-2800 - EXISTS FOR THREE TRAIN SEPARATION IN ORIGINAL PLANT DESIGN
K1B (RED)	—	—	K2B (YELLOW)	ROUTING BETWEEN P.A.B. & CONTAINMENT FOR M.C.C. 26A & M.C.C. 26B
K1AA (RED)	—	—	K2BB (YELLOW)	POWER AND CONTROL ASSOCIATED WITH MOTOR CONTROL CENTERS 24AA AND 24AB RESPECTIVELY WHICH WERE ADDED AS PART OF "THREE MILE ISLAND" PLANT MODIFICATIONS
125 VDC K1 & CONTROL K1D POWER (RED)	125 VDC K2 & CONTROL K2D POWER (WHITE)	125 VDC K3 & LOGIC ONLY K3D (BLUE)	125 VDC K2 & LOGIC ONLY K2D (YELLOW)	BATTERY 21 & 22 LOGIC SIGNALS AND CONTROL POWER (K1 & K2) RESPECTIVELY AND NEW ROUTINGS FOR 125VOLT D.C. BATTERIES 21 THROUGH 24 RESPECTIVELY FOR CIRCUITS WHICH WERE ADDED AS PART OF "THREE MILE ISLAND" PLANT MODIFICATIONS SEE NOTES 3 & 4

2. "CIRCUIT TYPE" DESIGNATIONS ARE USED TO FUNCTIONALLY DESCRIBE THE PURPOSE OF A CIRCUIT. THESE ARE PURELY FUNCTIONAL DESCRIPTIONS AND SHOULD NOT BE CONFUSED WITH PHYSICAL ROUTING DESIGNATIONS. LIST TABLE OF CIRCUIT TYPE DESIGNATIONS - FROM CABLE SCHEDULE

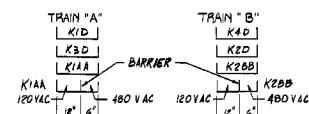


## NOTES CONTINUED:

4. IN THE ORIGINAL PLANT DESIGN SEPARATION WAS SET UP ON A CIRCUIT BY CIRCUIT BASIS RATHER THAN A "UNITIZED" FIXED "BUS TO ROUTING CHANNEL" ASSOCIATION (E.G. C1 & BUS 5A) SINGLE FAILURE IS MET FOR THESE CASES BECAUSE OF THE FLEXIBILITY OF REDUNDANT TRAIN A AND B LOGIC AND CONTROL SIGNALS TO EACH BUS (I.E. LOSS OF ONE TRAY MAY FAIL A CONTAINMENT SPRAY PUMP ON ONE BUS AND AN SI PUMP ON ANOTHER BUS BUT CONTROL FROM ONE OR THE TWO D.C. SYSTEMS WILL STILL BE AVAILABLE TO BOTH BUSES. IN ALL FUTURE MODIFICATIONS THE "UNITIZED" BUS/ROUTING ASSOCIATIONS AS SHOWN ON THE TABLE ARE PREFERRED. EXCEPTIONS WILL BE PERMITTED FOR NON-IE EQUIPMENT WHERE NECESSARY TO MAINTAIN THE ORIGINAL PLANT CRITERIA OF MINIMIZING PHYSICAL CROSSOVERS IN THE CABLE RACEWAY SYSTEM.
5. AS ESTABLISHED BY THE ORIGINAL PLANT DESIGN CRITERIA AND SUBSEQUENT MODIFICATIONS ALL NON CLASS IE CIRCUITS (POWER, CONTROL AND INSTRUMENTATION) WERE ROUTED IN TRAYS OR CONDUITS CONVENIENT TO THE TERMINATION POINTS. THIS WAS ACCOMPLISHED BY ROUTING CABLE IN ANY SAFETY GRADE CHANNELS AND AS SUCH TREATED AS AN "ASSOCIATED CIRCUIT". THEREFORE NO "TRAY HOPPING" WAS PERMITTED AND ONCE A NON IE CIRCUIT WAS ASSIGNED TO A SAFEGUARD ROUTING CHANNEL IT MUST HAVE REMAINED IN THAT CHANNEL THROUGHOUT THE WHOLE RUN.
6. ALL CABLES IN RACEWAYS SHALL MEET THE LATEST CON EDISON SPECIFICATION 60-8 AND BE QUALIFIED TO IEEE 383. COMMERCIAL GRADE CABLE AND IMC CONDUIT IS ONLY PERMITTED FOR LIGHTING, RECEPTACLES, AND OTHER SERVICES NOT ASSOCIATED WITH PLANT PROCESS SYSTEMS (M.C.C. BUILDINGS, TSC, RESPIRATOR FACILITY, PLANT OFFICES ETC.). ALL TERMINAL BLOCKS INSTALLED SHALL BE QUALIFIED TO IEEE 823 AND 844 TO ASSURE THEIR AVAILABILITY FOR FUTURE CLASS "A"/CLASS "IE" TERMINATIONS.



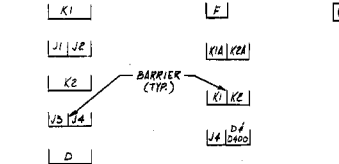
TYPICAL SECTION CABLE TUNNEL



TYPICAL SECTION ON EL. 98'-0" RA-B



TYPICAL SECTION CABLE SPREADING ROOM



TYPICAL SECTION CABLE SPREADING ROOM

Edison  
INDIAN POINT  
CABLE TRAY SEPARATION

REVISIONS  
THIS REV. IS  
CLASS 1A  
AS PER CI-240-1  
100 PRO C.  
E3G 80-2-21  
RELEASED FOR  
INVESTIGATION  
P.N. 90049-50  
1/1/11

CLASS 1A  
AS PER CI-240-1  
100 PRO C.  
E3G 80-2-21  
RELEASED FOR  
INVESTIGATION  
P.N. 90049-50  
1/1/11

CLASS 1A  
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100 PRO C.  
E3G 80-2-21  
RELEASED FOR  
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100 PRO C.  
E3G 80-2-21  
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1/1/11

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E3G 80-2-21  
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1/1/11

CLASS 1A  
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E3G 80-2-21  
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RELEASED FOR  
INVESTIGATION  
P.N. 90049-50  
1/1/11

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