

- NOTES
1. 52-750/500 ACB (200A SOLENOID); ••2000A SOLENOID; **1200A STORED ENERGY
 2. [Symbol] = LOCATED ON CONTROL ROOM PANEL
 3. EQUIPMENT NOT MARKED LOCATED AT SWGR
 4. 86UT1 TRIP & LOCKOUT BKR'S 52/UT1 & 52/UT1S
 5. 86UT2 TRIP & LOCKOUT BKR'S 52/UT2 & 52/UT2S
 6. 86UT3 TRIP & LOCKOUT BKR'S 52/UT3 & 52/UT3S
 7. 86UT4 TRIP & LOCKOUT BKR'S 52/UT4 & 52/UT4S
 8. 86UT5 TRIP & LOCKOUT BKR'S 52/UT5 & 52/UT5S
 9. 86UT6 TRIP & LOCKOUT BKR'S 52/UT6 & 52/UT6S
 10. 86UT7 TRIP & LOCKOUT BKR'S 52/UT7 & 52/UT7S
 11. 86UT8 TRIP & LOCKOUT BKR'S 52/UT8 & 52/UT8S
 12. 86UT9 TRIP & LOCKOUT BKR'S 52/UT9 & 52/UT9S
 13. 86UT10 TRIP & LOCKOUT BKR'S 52/UT10 & 52/UT10S
 14. 86UT11 TRIP & LOCKOUT BKR'S 52/UT11 & 52/UT11S
 15. 86UT12 TRIP & LOCKOUT BKR'S 52/UT12 & 52/UT12S
 16. 86UT13 TRIP & LOCKOUT BKR'S 52/UT13 & 52/UT13S
 17. 86UT14 TRIP & LOCKOUT BKR'S 52/UT14 & 52/UT14S
 18. 86UT15 TRIP & LOCKOUT BKR'S 52/UT15 & 52/UT15S
 19. 86UT16 TRIP & LOCKOUT BKR'S 52/UT16 & 52/UT16S
 20. 86UT17 TRIP & LOCKOUT BKR'S 52/UT17 & 52/UT17S
 21. 86UT18 TRIP & LOCKOUT BKR'S 52/UT18 & 52/UT18S
 22. 86UT19 TRIP & LOCKOUT BKR'S 52/UT19 & 52/UT19S
 23. 86UT20 TRIP & LOCKOUT BKR'S 52/UT20 & 52/UT20S
 24. 86UT21 TRIP & LOCKOUT BKR'S 52/UT21 & 52/UT21S
 25. 86UT22 TRIP & LOCKOUT BKR'S 52/UT22 & 52/UT22S
 26. 86UT23 TRIP & LOCKOUT BKR'S 52/UT23 & 52/UT23S
 27. 86UT24 TRIP & LOCKOUT BKR'S 52/UT24 & 52/UT24S
 28. 86UT25 TRIP & LOCKOUT BKR'S 52/UT25 & 52/UT25S
 29. 86UT26 TRIP & LOCKOUT BKR'S 52/UT26 & 52/UT26S
 30. 86UT27 TRIP & LOCKOUT BKR'S 52/UT27 & 52/UT27S
 31. 86UT28 TRIP & LOCKOUT BKR'S 52/UT28 & 52/UT28S
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 34. 86UT31 TRIP & LOCKOUT BKR'S 52/UT31 & 52/UT31S
 35. 86UT32 TRIP & LOCKOUT BKR'S 52/UT32 & 52/UT32S
 36. 86UT33 TRIP & LOCKOUT BKR'S 52/UT33 & 52/UT33S
 37. 86UT34 TRIP & LOCKOUT BKR'S 52/UT34 & 52/UT34S
 38. 86UT35 TRIP & LOCKOUT BKR'S 52/UT35 & 52/UT35S
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 41. 86UT38 TRIP & LOCKOUT BKR'S 52/UT38 & 52/UT38S
 42. 86UT39 TRIP & LOCKOUT BKR'S 52/UT39 & 52/UT39S
 43. 86UT40 TRIP & LOCKOUT BKR'S 52/UT40 & 52/UT40S
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 54. 86UT51 TRIP & LOCKOUT BKR'S 52/UT51 & 52/UT51S
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 56. 86UT53 TRIP & LOCKOUT BKR'S 52/UT53 & 52/UT53S
 57. 86UT54 TRIP & LOCKOUT BKR'S 52/UT54 & 52/UT54S
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 67. 86UT64 TRIP & LOCKOUT BKR'S 52/UT64 & 52/UT64S
 68. 86UT65 TRIP & LOCKOUT BKR'S 52/UT65 & 52/UT65S
 69. 86UT66 TRIP & LOCKOUT BKR'S 52/UT66 & 52/UT66S
 70. 86UT67 TRIP & LOCKOUT BKR'S 52/UT67 & 52/UT67S
 71. 86UT68 TRIP & LOCKOUT BKR'S 52/UT68 & 52/UT68S
 72. 86UT69 TRIP & LOCKOUT BKR'S 52/UT69 & 52/UT69S
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 97. 86UT94 TRIP & LOCKOUT BKR'S 52/UT94 & 52/UT94S
 98. 86UT95 TRIP & LOCKOUT BKR'S 52/UT95 & 52/UT95S
 99. 86UT96 TRIP & LOCKOUT BKR'S 52/UT96 & 52/UT96S
 100. 86UT97 TRIP & LOCKOUT BKR'S 52/UT97 & 52/UT97S
 101. 86UT98 TRIP & LOCKOUT BKR'S 52/UT98 & 52/UT98S
 102. 86UT99 TRIP & LOCKOUT BKR'S 52/UT99 & 52/UT99S
 103. 86UT100 TRIP & LOCKOUT BKR'S 52/UT100 & 52/UT100S

A RECORD OF THE ORIGINAL WITH INITIALS/SIGNATURES IS MAINTAINED IN CENTRAL ENGINEERING DOCUMENTATION FILE.

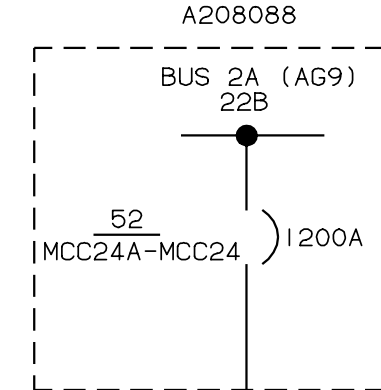
THE LAST PENCILLED REVISION WAS 01

THE ORIGINAL TRACING FOR THIS DRAWING WAS PREPARED BY WESTINGHOUSE

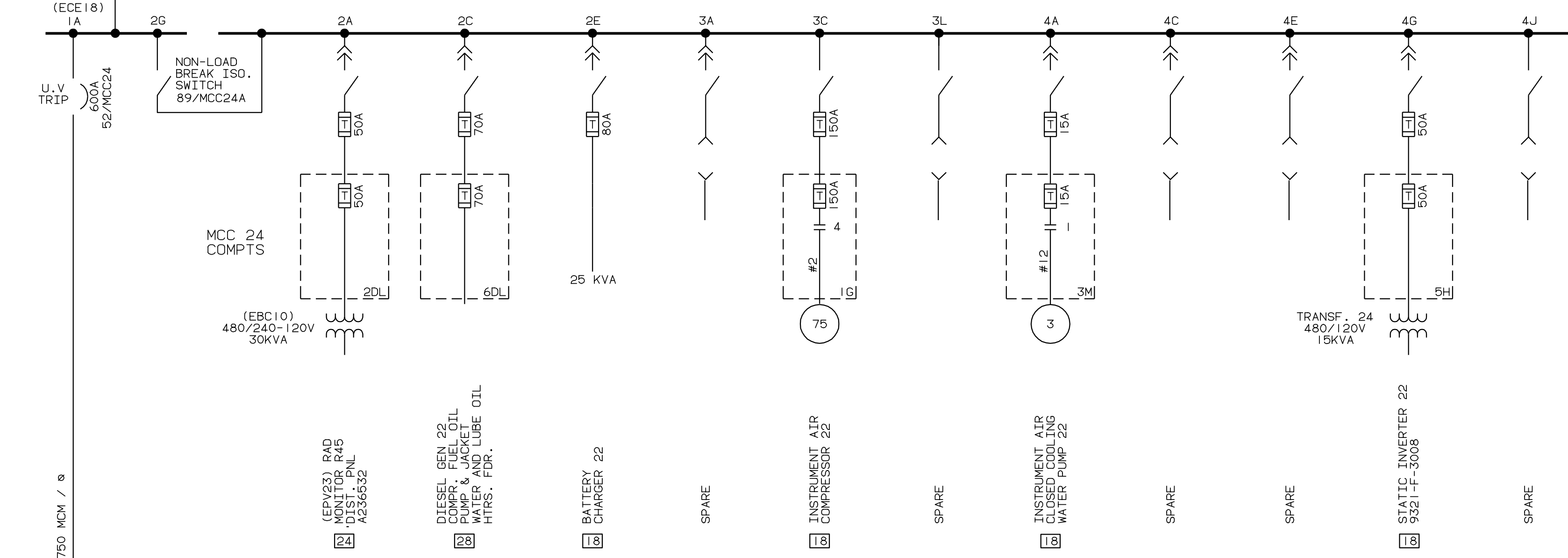
THIS DRAWING CONTAINS ITEM WHICH MUST BE CONTROLLED WITHIN THE SCOPE OF "CLASS A" ITEMS PER QAPD

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED		TITLE: 6900 VOLT AC ONE LINE		STATION	
DIAGRAM		DATE: 04/18/08		INDIAN POINT#2	
DRAWING NO. EC5000033794		SCALE: NONE		DWG. NO. A231592-19	
UFSAR FIGURE No. 8.2-5		A.K.		02	

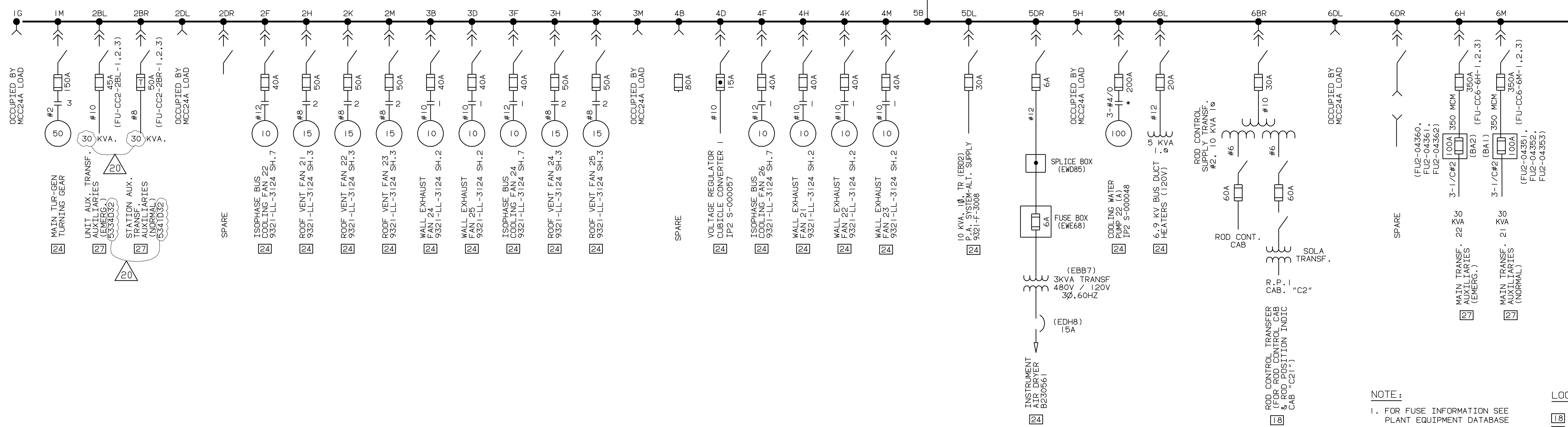
480V SWITCHGEAR 21 (PARTIAL)



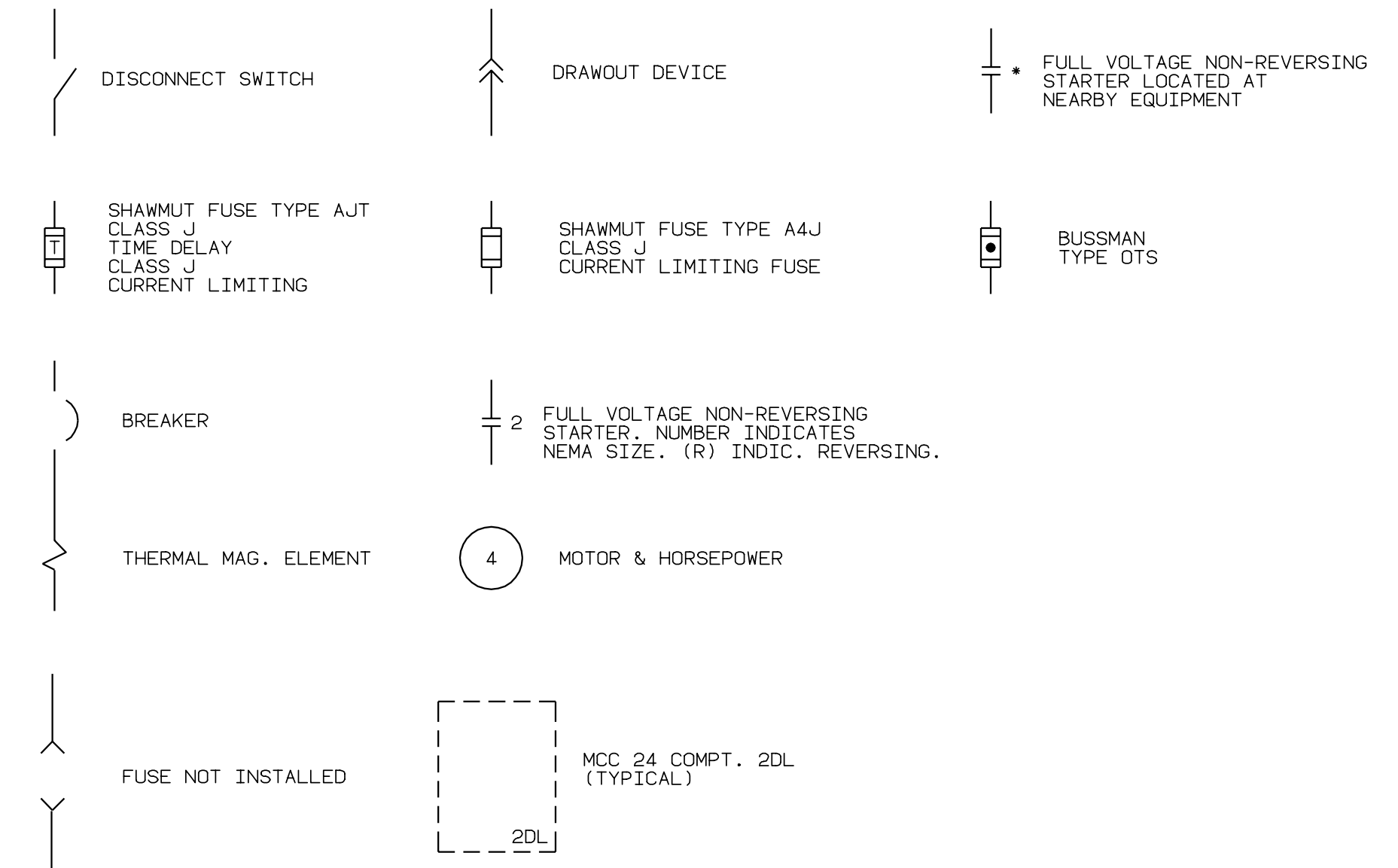
480V MOTOR CONTROL CENTER 24A
(TURB. GEN. BLDG. EL. 15'-0")



480V MOTOR CONTROL CENTER 24
(TURB. GEN. BLDG. EL. 15'-0")



SYMBOLS



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 21, 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

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

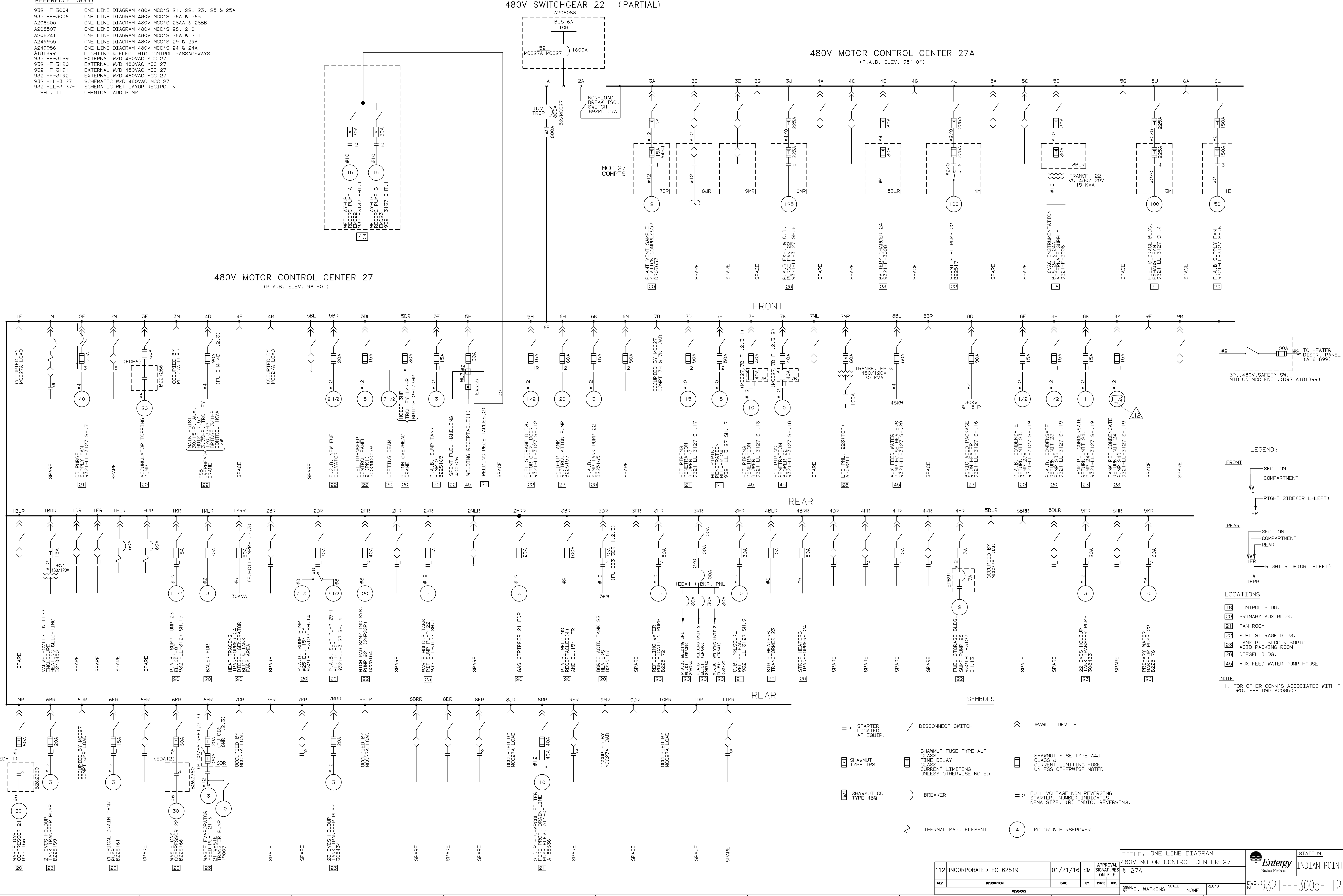
TITLE: ONE LINE DIAGRAM		STATION	
480V MCC 24 & 24A		INDIAN POINT #2	
20 INCORPORATED EC-54990	3/23/16	SM	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY CHK'G APP'G
			BY K.FOLEY SCALE NONE REC'D
DWG. NO. A249956-20		DZ	

REFERENCE DWGS:
 9321-F-3004 ONE LINE DIAGRAM 480V MCC'S 21, 22, 23, 25 & 25A
 9321-F-3006 ONE LINE DIAGRAM 480V MCC'S 26A & 26B
 A208500 ONE LINE DIAGRAM 480V MCC'S 26AA & 26BB
 A208507 ONE LINE DIAGRAM 480V MCC'S 28, 210
 A208241 ONE LINE DIAGRAM 480V MCC'S 28A & 211
 A249955 ONE LINE DIAGRAM 480V MCC'S 29 & 29A
 A249956 ONE LINE DIAGRAM 480V MCC'S 24 & 24A
 A181879 LIGHTING & ELECT. HTG. CONTROL PASSAGEWAYS
 9321-F-3189 EXTERNAL W/D 480VAC MCC 27
 9321-F-3190 EXTERNAL W/D 480VAC MCC 27
 9321-F-3191 EXTERNAL W/D 480VAC MCC 27
 9321-F-3192 EXTERNAL W/D 480VAC MCC 27
 9321-LL-3127 SCHEMATIC W/D 480VAC MCC 27
 9321-LL-3137 SCHEMATIC WET LAYUP RECIRC. & CHEMICAL ADD PUMP
 SHT. 11

480V SWITCHGEAR 22 (PARTIAL)

480V MOTOR CONTROL CENTER 27A
 (P.A.B. ELEV. 98'-0")

480V MOTOR CONTROL CENTER 27
 (P.A.B. ELEV. 98'-0")



LEGEND:

FRONT SECTION
 REAR SECTION
 RIGHT SIDE (OR L-LEFT)
 LEFT SIDE (OR R-RIGHT)

LOCATIONS

- 18 CONTROL BLDG.
- 20 PRIMARY AUX BLDG.
- 21 FAN ROOM
- 22 FUEL STORAGE BLDG.
- 23 TANK PIT BLDG. & BORIC ACID PACKING ROOM
- 24 DIESEL BLDG.
- 25 AUX FEED WATER PUMP HOUSE

SYMBOLS

- STARTER LOCATED AT EQUIP.
- SHAMMUT TYPE TRS
- SHAMMUT CO TYPE 489
- DISCONNECT SWITCH
- CLASSE J CLASS J CLASSE J CLASSE J
- CLASSE J CLASS J CLASS J CLASS J
- CURRENT LIMITING FUSE UNLESS OTHERWISE NOTED
- BREAKER
- THERMAL MAG. ELEMENT
- DRAWOUT DEVICE
- SHAMMUT FUSE TYPE A4J CLASS J CURRENT LIMITING FUSE UNLESS OTHERWISE NOTED
- FULL VOLTAGE NON-REVERSING STARTER NUMBER INDICATES NEMA SIZE. (R) INDIC. REVERSING.
- MOTOR & HORSEPOWER

112 INCORPORATED EC 62519		01/21/16 SM		APPROVAL ON FILE		STATION INDIAN POINT #2	
REV		DESCRIPTION		DATE		BY	
112		INCORPORATED EC 62519		01/21/16		SM	
113		REVISED		01/21/16		SM	
114		REVISED		01/21/16		SM	
115		REVISED		01/21/16		SM	
116		REVISED		01/21/16		SM	
117		REVISED		01/21/16		SM	
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200		REVISED		01/21/16		SM	

TITLE: ONE LINE DIAGRAM
 480V MOTOR CONTROL CENTER 27 & 27A

STATION INDIAN POINT #2

DWG. NO. 9321-F-3005-112

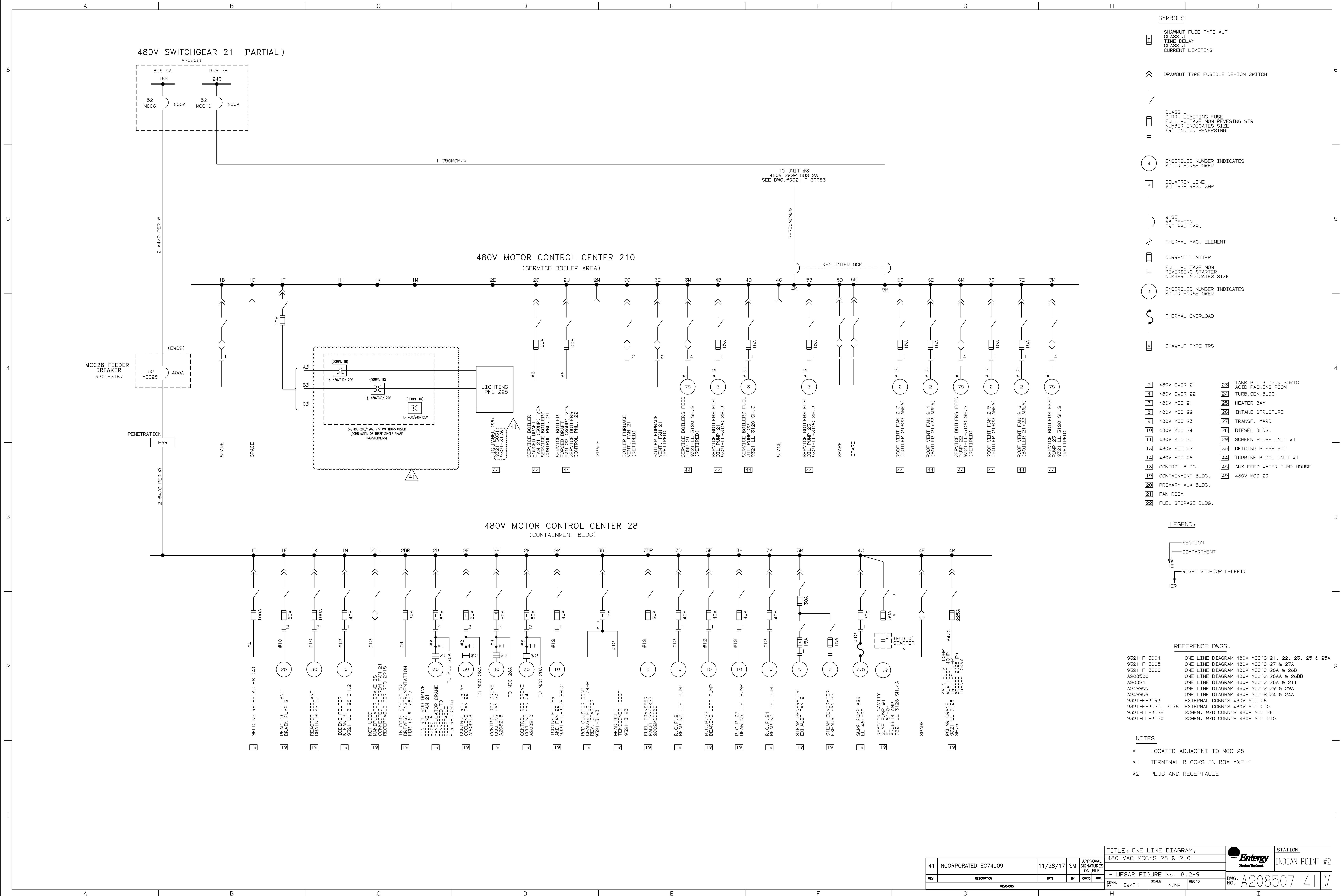
DATE: 01/21/16

BY: I. WATKINS

SCALE: NONE

REVISED: NONE

APP.:



- SYMBOLS**
- SHAWMUT FUSE TYPE AJT
 - CLASS J TIME DELAY CLASS CURRENT LIMITING
 - DRAWOUT TYPE FUSIBLE DE-ION SWITCH
 - CLASS J CURR. LIMITING FUSE
 - FULL VOLTAGE NON REVERSING STR
 - NUMBER INDICATES SIZE (R) INDIC. REVERSING
 - ENCIRCLED NUMBER INDICATES MOTOR HORSEPOWER
 - SOLATRON LINE VOLTAGE REG. 3HP
 - WHSE AB, DE-ION TRI PAC BKR.
 - THERMAL MAG. ELEMENT
 - CURRENT LIMITER
 - FULL VOLTAGE NON REVERSING STARTER
 - NUMBER INDICATES SIZE
 - ENCIRCLED NUMBER INDICATES MOTOR HORSEPOWER
 - THERMAL OVERLOAD
 - SHAWMUT TYPE TRS

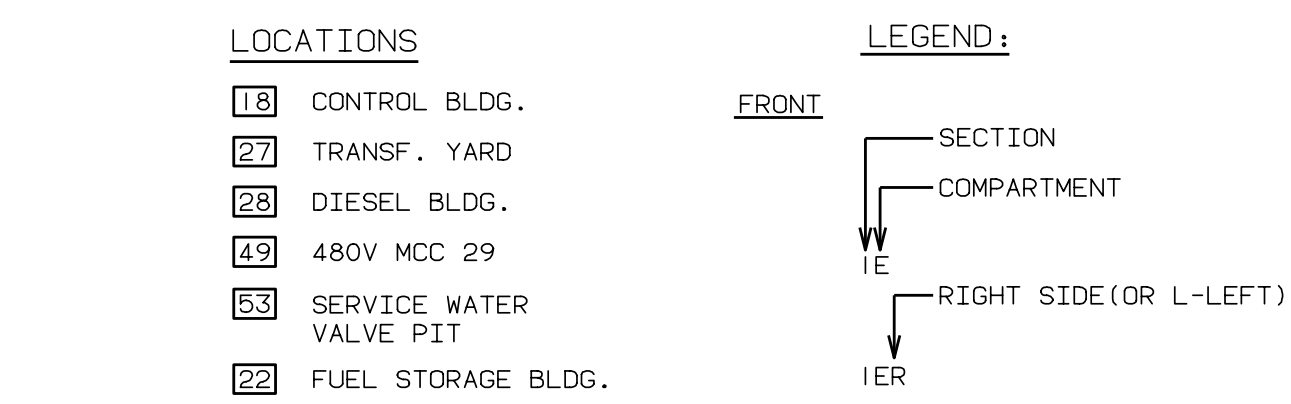
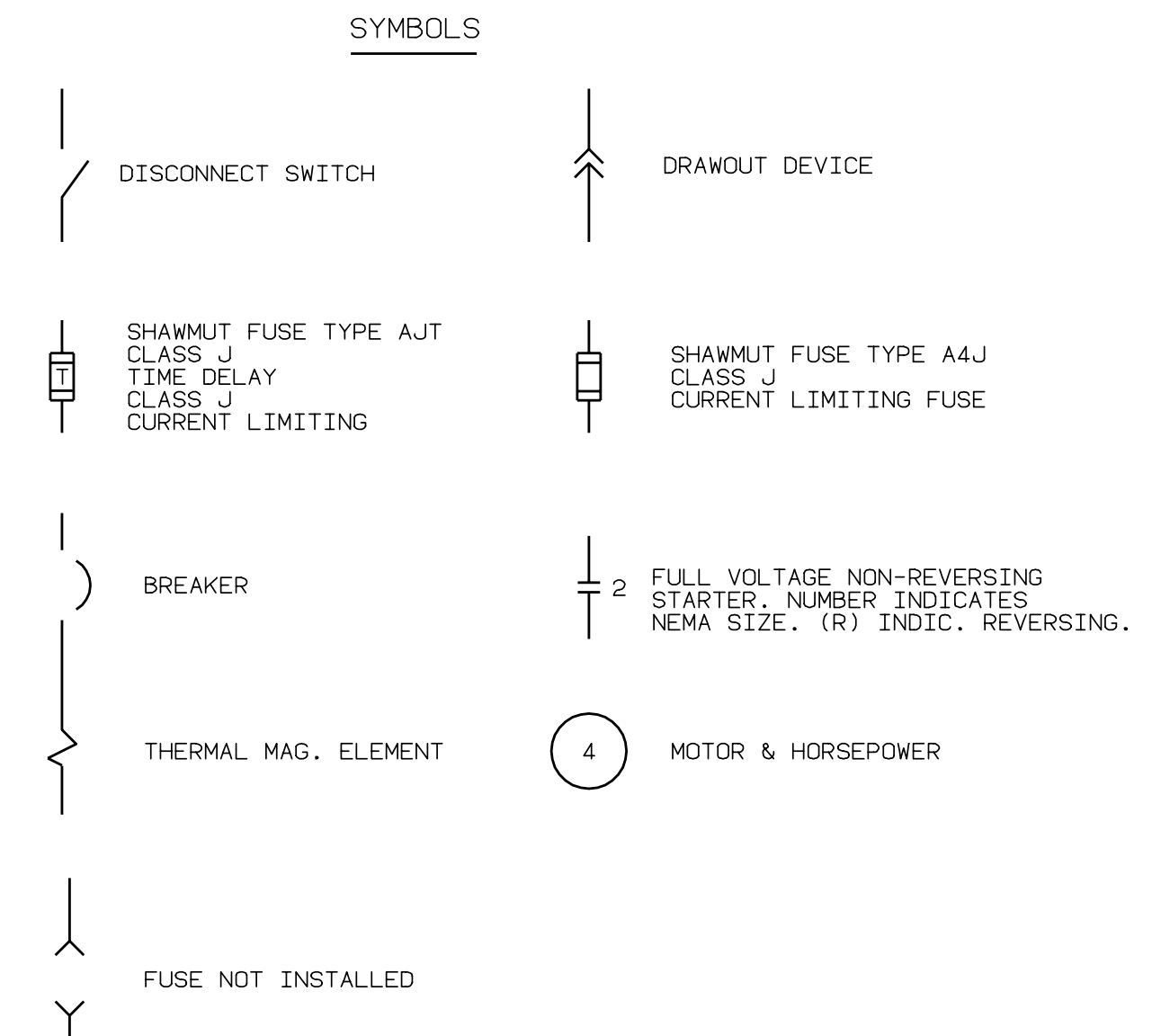
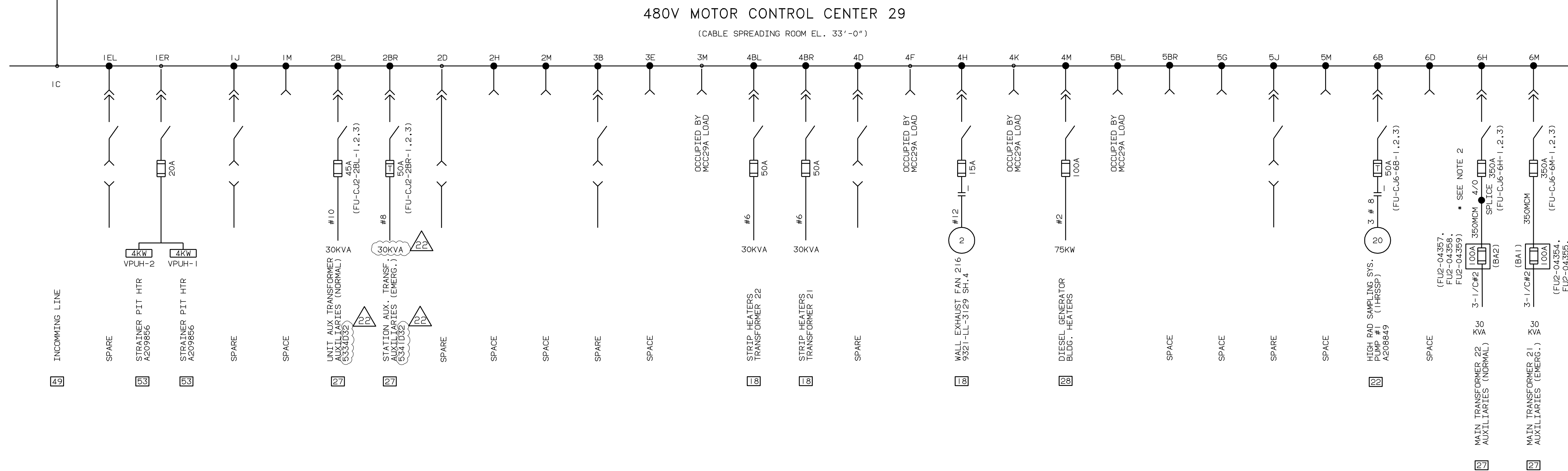
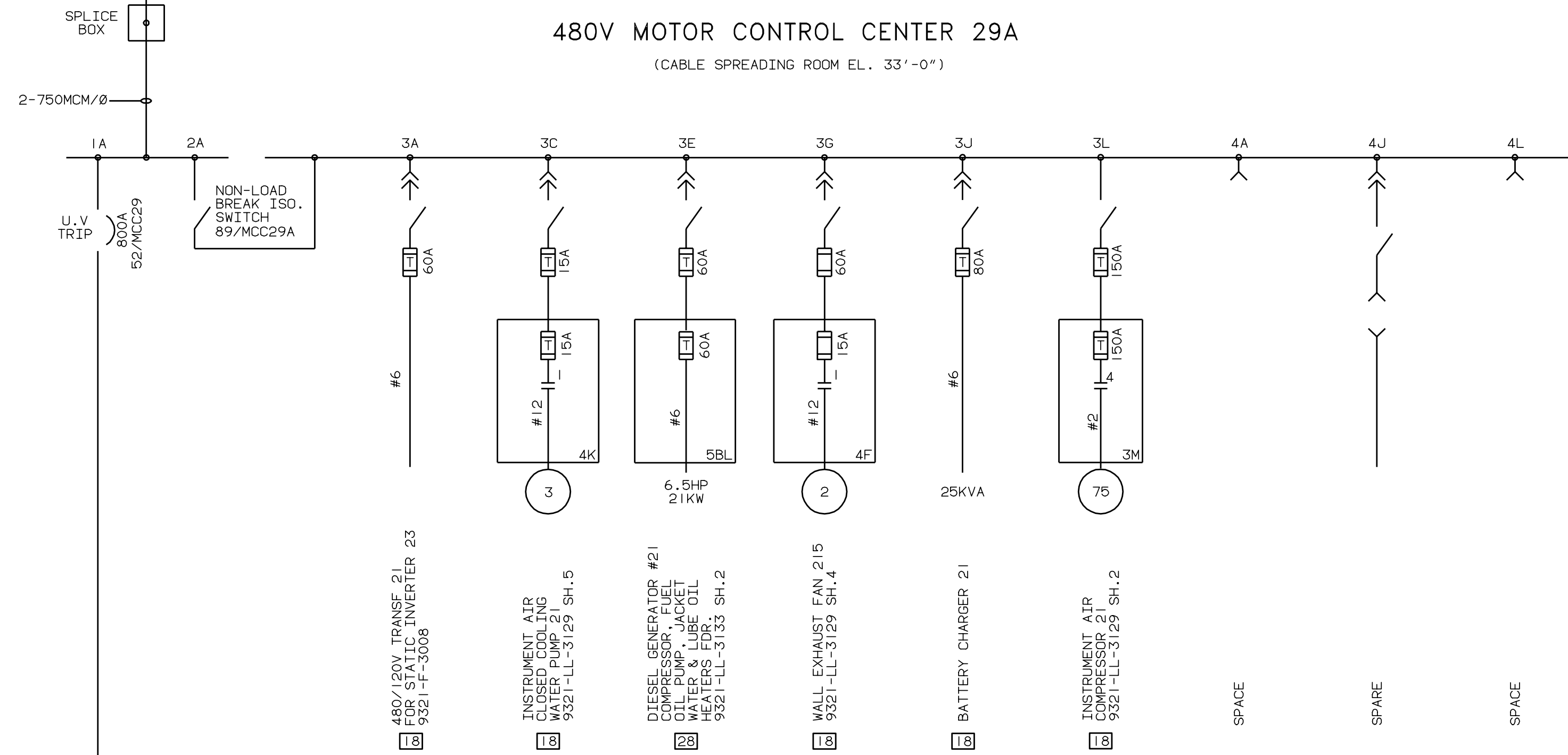
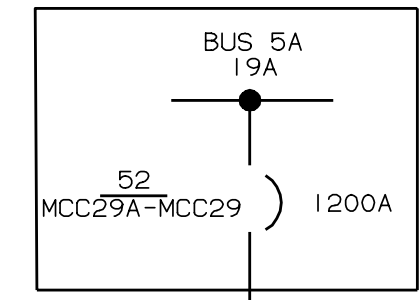
- LEGEND:**
- 480V SWGR 21
 - 480V SWGR 22
 - 480V MCC 21
 - 480V MCC 22
 - 480V MCC 23
 - 480V MCC 24
 - 480V MCC 25
 - 480V MCC 27
 - 480V MCC 28
 - CONTROL BLDG.
 - CONTAINMENT BLDG.
 - PRIMARY AUX BLDG.
 - FAN ROOM
 - FUEL STORAGE BLDG.
 - TANK PIT BLDG. & BORIC ACID PACKING ROOM
 - TURB. GEN. BLDG.
 - HEATER BAY
 - INTAKE STRUCTURE
 - TRANSF. YARD
 - DIESEL BLDG.
 - SCREEN HOUSE UNIT #1
 - DECING PUMPS PIT
 - TURBINE BLDG. UNIT #1
 - AUX FEED WATER PUMP HOUSE
 - 480V MCC 29

- REFERENCE DWGS.**
- 9321-F-3004 ONE LINE DIAGRAM 480V MCC'S 21, 22, 23, 25 & 25A
 - 9321-F-3005 ONE LINE DIAGRAM 480V MCC'S 27 & 27A
 - 9321-F-3006 ONE LINE DIAGRAM 480V MCC'S 26A & 26B
 - A208500 ONE LINE DIAGRAM 480V MCC'S 26AA & 26BB
 - A208241 ONE LINE DIAGRAM 480V MCC'S 28A & 211
 - A249955 ONE LINE DIAGRAM 480V MCC'S 29 & 29A
 - A249956 ONE LINE DIAGRAM 480V MCC'S 24 & 24A
 - 9321-F-3193 EXTERNAL CONN'S 480V MCC 28
 - 9321-F-3175, 3176 EXTERNAL CONN'S 480V MCC 210
 - 9321-LL-3128 SCHEM. W/D CONN'S 480V MCC 28
 - 9321-LL-3120 SCHEM. W/D CONN'S 480V MCC 210

- NOTES**
- * LOCATED ADJACENT TO MCC 28
 - *1 TERMINAL BLOCKS IN BOX "XF1"
 - *2 PLUG AND RECEPTACLE

41 INCORPORATED EC74909		11/28/17	SM	APPROVAL SIGNATURES ON FILE	TITLE: ONE LINE DIAGRAM, 480 VAC MCC'S 28 & 210	STATION INDIAN POINT #2
REV	DESCRIPTION	DATE	BY	CHKD	APPD	DWG. NO. A208507-4 02

480V SWITCHGEAR 21 (PARTIAL)

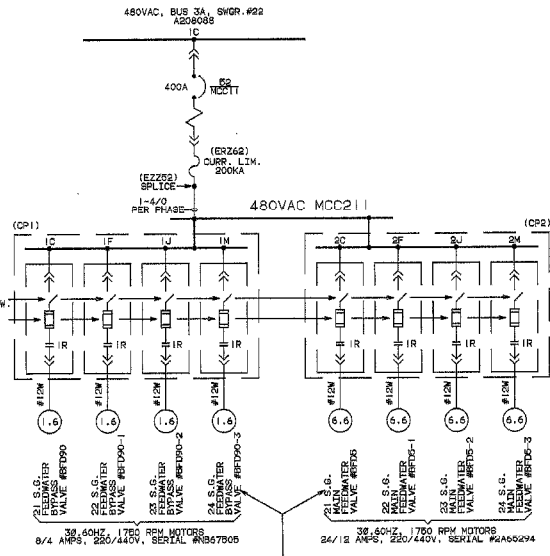
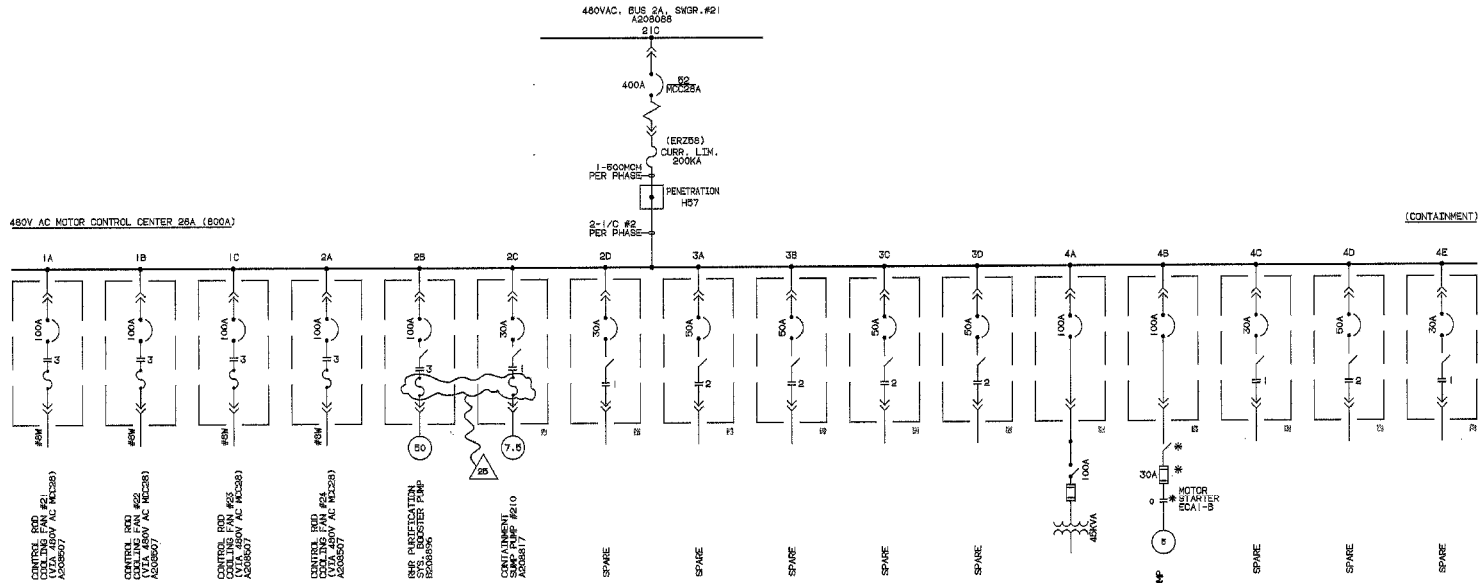


REFERENCE DWGS:

9321-F-3004	ONE LINE DIAGRAM 480V MCC'S 21, 22, 23, 25 & 25A
9321-F-3005	ONE LINE DIAGRAM 480V MCC'S 27 & 27A
9321-F-3006	ONE LINE DIAGRAM 480V MCC'S 26A & 26B
A208500	ONE LINE DIAGRAM 480V MCC'S 26AA & 26BB
A208507	ONE LINE DIAGRAM 480V MCC'S 28, 210
A208241	ONE LINE DIAGRAM 480V MCC'S 28A & 211
A249786	ONE LINE DIAGRAM 480V MCC'S 24 & 24A
9321-F-3194	EXTERNAL W/D 480V MCC29
9321-LL-3129	SCHEMATIC W/D 480V MCC29

NOTES:
 1. THIS DWG. SUPERSEDES IN PART CON EDISON (A208507)
 2. FUTURE EXPANSION OF CIRCUIT 6H OF MCC29 IS LIMITED BY 200AMP DISCONNECT SWITCH
 3. FOR FUSE INFORMATION SEE PLANT EQUIPMENT DATABASE

22 INCORPORATED EC-54990		3/23/16	SM	APPROVAL SIGNATURES ON FILE		TITLE: ONE LINE DIAGRAM. 480V AC MCC 29 & 29A		STATION INDIAN POINT #2	
REVISIONS		DATE	BY	CHKD	APP.	- UFSAR FIGURE No. 8, 2-9A		DWG. NO. A249955-22	
						DRWN. BY K. FOLEY	SCALE NONE	REC'D	

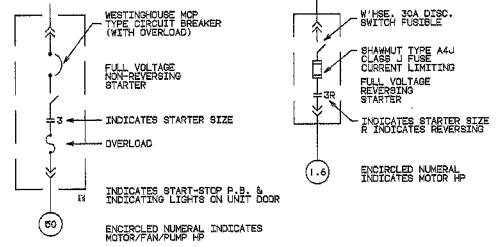


NO LOCAL INDICATION OR PB.'S (START-STOP) AT MOTOR

REFERENCE DWG.'S
 SCHEMATIC DIAG. OF CONN.'S OF CONTROL ROD COOLING FANS #21, 22, 23 & 24
 DIAG. OF INT. CONN.'S OF STARTERS & PHYSICAL LAYOUT & ELECTRICAL SPEC.'S OF 480VAC MCC 28A
 ONE LINE DIAG. OF 480VAC, 3 PHASE, 60HZ, POWER SUPPLY
 DIAGRAM OF EXTERNAL CONN.'S OF 480V MCC# 28A
 FEEDWATER SYSTEM BY-PASS VALVES (SHTS. #2, 5, 15) AND SCHEMATIC W/D OF CONN.'S FOR MCC#11 (SHTS. #9 THRU 99)
 SCHEMATIC DIAG. OF 480V SWITCHGEAR #21 (SHTS. #3, 11)

CON. ED. DWG. #
 A208215
 A208217
 A209088
 A208216
 U.S. GOV. DWG. #
 9321-LL-3661

SYMBOLS (TYPICAL)

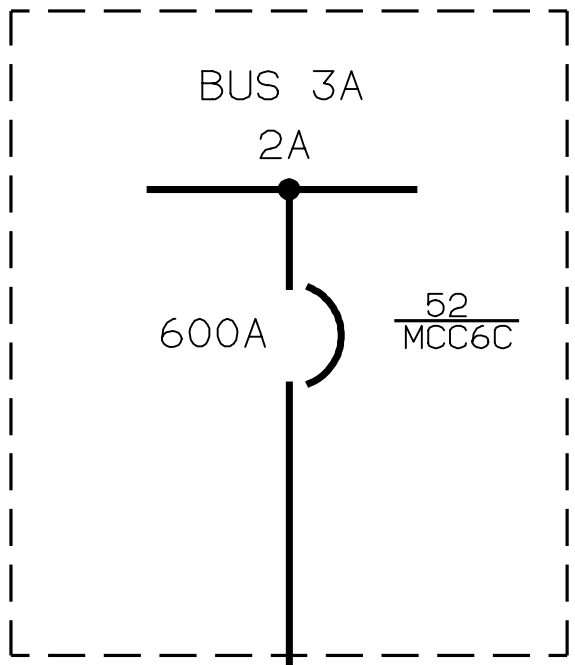


* LOCATED ADJACENT TO MCC28

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

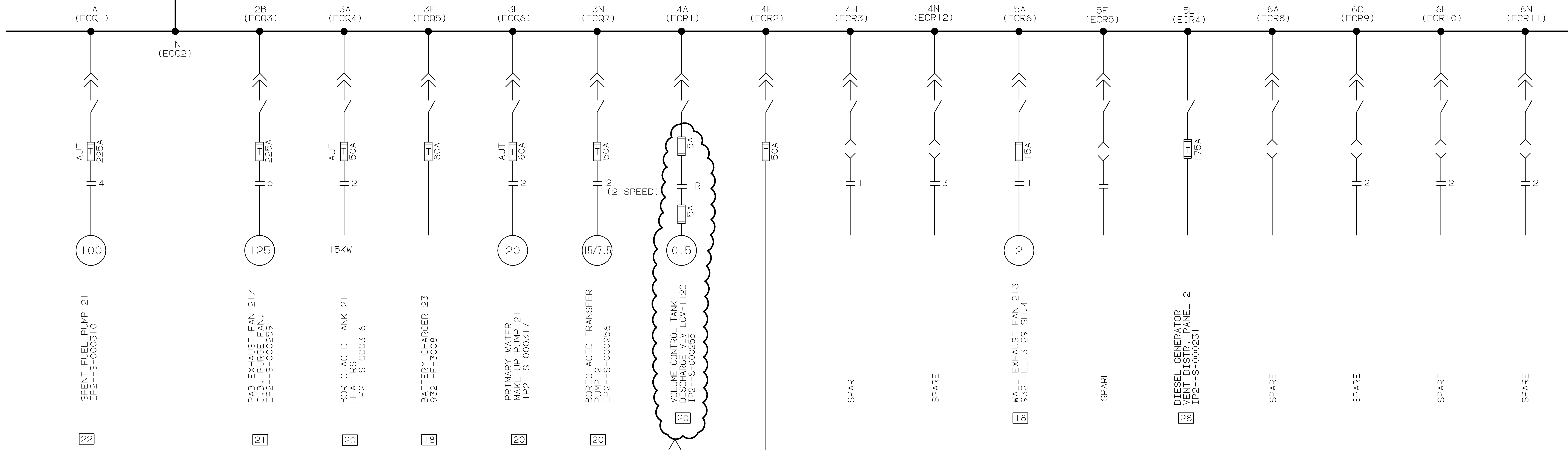
25 INCORPORATED DRN-08-00542		DATE	BY	CHK'D	APP'D	TITLE: SINGLE LINE DIA OF 480 VAC MCC 28A AND 211		SCALE	NONE	REV'S	INDIAN POINT #2
REV	DESCRIPTION	DATE	BY	CHK'D	APP'D	2. UFBAR FIGURE No. 8.2-10		SCALE	NONE	REV'S	DWG. NO. A20821-25 02

480V SWITCHGEAR 22 (PARTIAL)
A208088

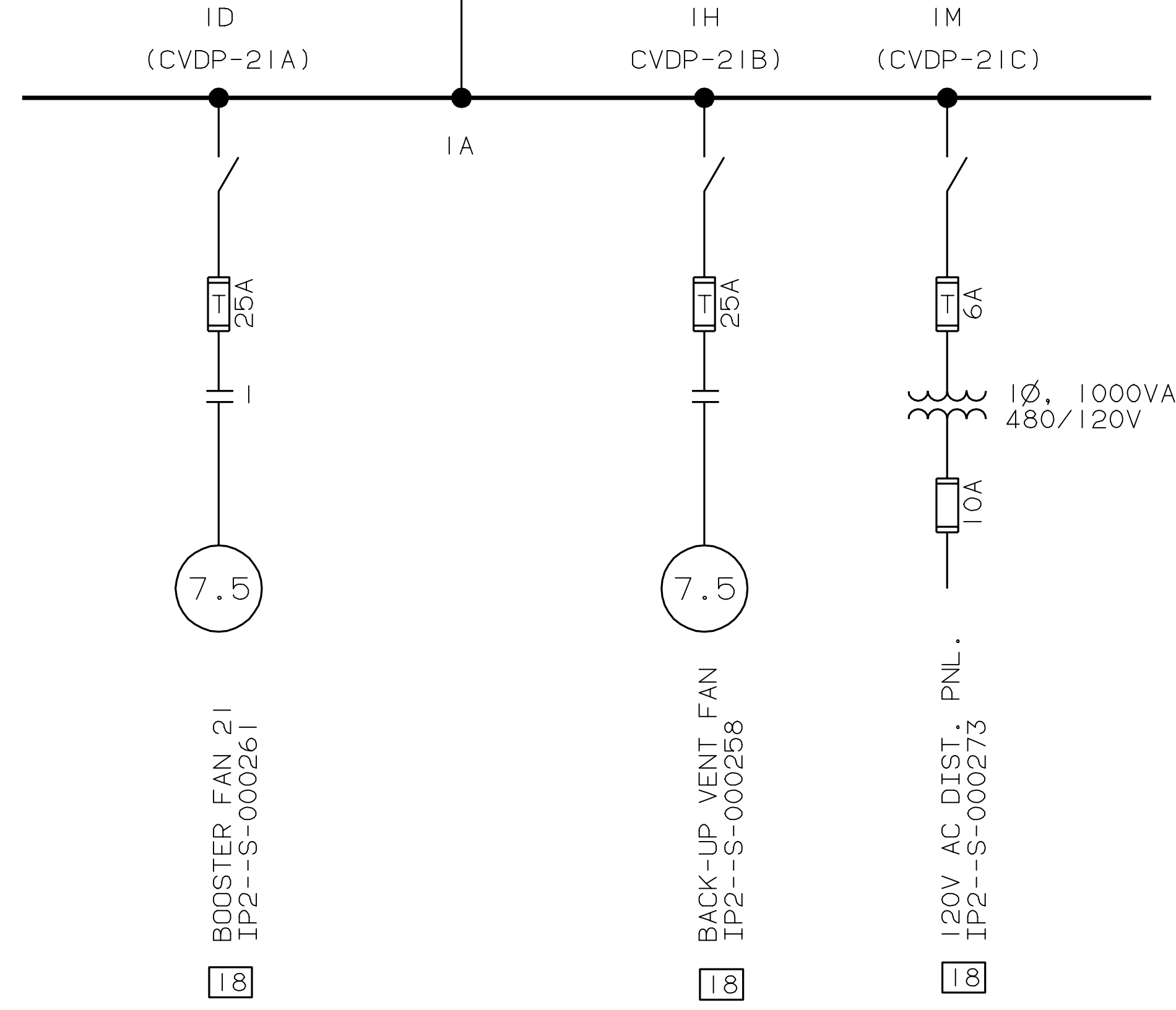


2-750 MCM PER Ø

480V MOTOR CONTROL CENTER 26C
(SPREADING ROOM IN CONTROL BUILDING - EL. 33')



(EPZ28)
(CCR FAN ROOM EL. 72'0")
CCR VENT. PWR. DIST. PNL. 21



SYMBOLS

- DISCONNECT SWITCH
- SHAWMUT FUSE TYPE AJT CLASS J TIME DELAY CLASS J CURRENT LIMITING
- BREAKER
- THERMAL MAG. ELEMENT
- DRAWOUT DEVICE
- SHAWMUT FUSE TYPE A4J CLASS J CURRENT LIMITING FUSE
- FULL VOLTAGE NON-REVERSING STARTER, NUMBER INDICATES NEMA SIZE, (R) INDIC. REVERSING, (S&F) INDICATE SLOW & FAST.
- MOTOR & HORSEPOWER

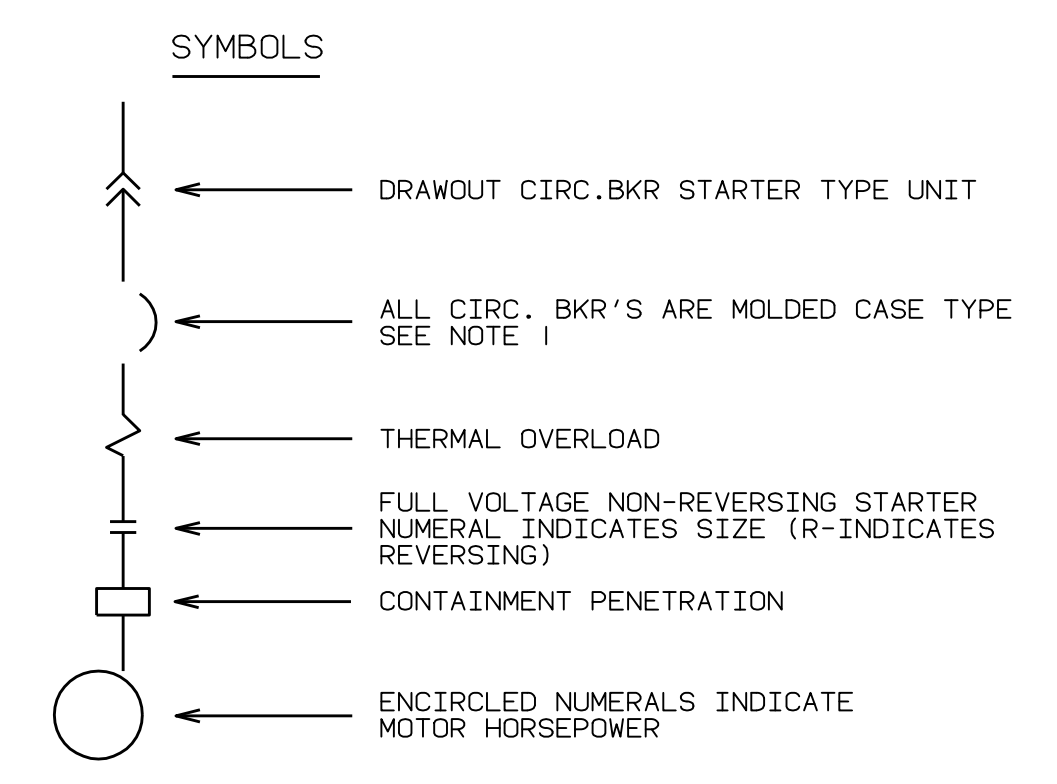
LEGEND:

- SECTION
- COMPARTMENT
- COMPARTMENT NODE (ECQ1)
- CONTROL BLDG.
- PRIMARY AUX BLDG.
- FAN ROOM
- FUEL STORAGE BLDG.
- DIESEL BLDG.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

13 INCORPORATED EC49693		3/11/14	LH	APPROVAL SIGNATURES ON FILE	TITLE: SINGLE LINE DIAGRAM 480V MCC 26C & CCR VENT. DIST. PANEL 21 - UFSAR FIGURE No. 8.2-11A	STATION INDIAN POINT
REV	DESCRIPTION	DATE	BY	CHK'D	APP.	DWG. NO. B248513-13 DZ
REVISIONS						SCALE NONE
DRWN. BY K.FOLEY					REC'D	

ZOHSHK<R



- △ INDICATES M.O.V. TO BE PADLOCKED, WITH CONTROL SW. (CLOSE-OPEN) AND 2 INDIC. LITS. (GREEN-RED) FOR EACH ONE.
- INDICATES CONTROL FROM SAMPLING PNL. #1
- INDICATES CONTROL FROM SAMPLING PNL. #2
- * - CIRC. BKR. KLOCKNER-MOELLER TYPE N2M H9-250
- ** - CIRC. BKR. KLOCKNER-MOELLER TYPE N2M H6-63
- *** - CIRC. BKR. KLOCKNER-MOELLER TYPE N2M H6-100

- NOTES:**
- EXCEPT AS NOTED, ALL BREAKERS ARE KLOCKNER-MOELLER TYPE N2M63, 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:

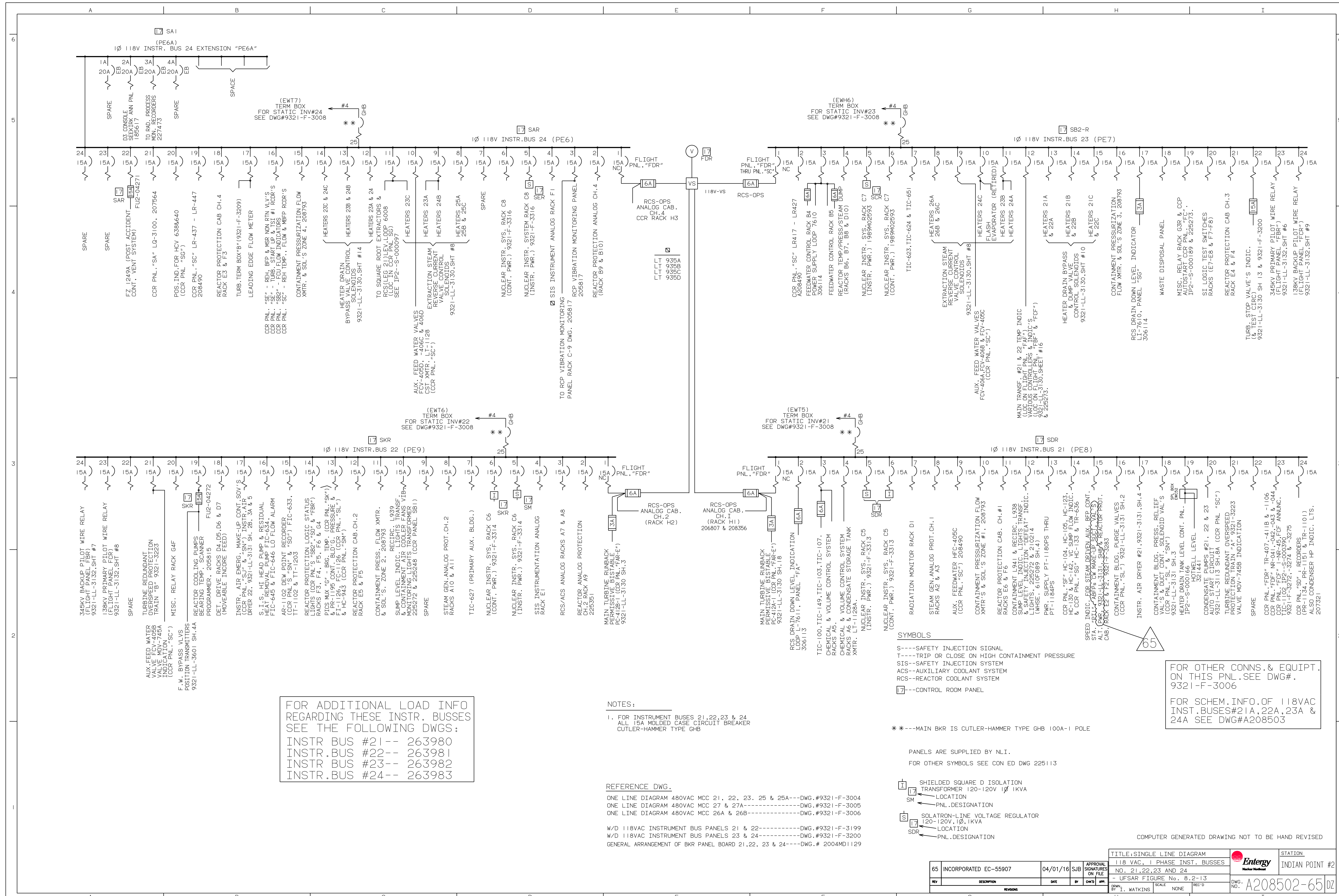
- 9321-F-3006 ONE LINE DIAGRAM 480V MCC'S 26A & 26B
- 208523 MCC 26AA EXTERNAL W/D
- 208524 MCC 26AA EXTERNAL W/D
- 208525 MCC 26BB EXTERNAL W/D
- 208526 MCC 26BB EXTERNAL W/D
- 208532 120VAC DIST. PNL'S 1&2 EXTERNAL W/D
- 208337 MCC 26AA & MCC 26BB EXTERNAL W/D
- 256927 M.O.V. INFO. -1995 REFUEL OUTAGE
- 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

DWG NO.	208500	REV	48
SCALE	NONE	SHEET	



FOR ADDITIONAL LOAD INFO REGARDING THESE INSTR. BUSES SEE THE FOLLOWING DWGS:
 INSTR. BUS #21-- 263980
 INSTR. BUS #22-- 263981
 INSTR. BUS #23-- 263982
 INSTR. BUS #24-- 263983

NOTES:
 1. FOR INSTRUMENT BUSES 21, 22, 23 & 24 ALL 15A MOLDED CASE CIRCUIT BREAKER CUTLER-HAMMER TYPE GHB

REFERENCE DWG.
 ONE LINE DIAGRAM 480VAC MCC 21, 22, 23, 25 & 25A---DWG.#9321-F-3004
 ONE LINE DIAGRAM 480VAC MCC 27 & 27A-----DWG.#9321-F-3005
 ONE LINE DIAGRAM 480VAC MCC 26A & 26B-----DWG.#9321-F-3006
 W/D 118VAC INSTRUMENT BUS PANELS 21 & 22-----DWG.#9321-F-3199
 W/D 118VAC INSTRUMENT BUS PANELS 23 & 24-----DWG.#9321-F-3200
 GENERAL ARRANGEMENT OF BKR PANEL BOARD 21, 22, 23 & 24-----DWG.# 2004MD1129

SYMBOLS
 S----SAFETY INJECTION SIGNAL
 T----TRIP OR CLOSE ON HIGH CONTAINMENT PRESSURE
 SIS--SAFETY INJECTION SYSTEM
 ACS--AUXILIARY COOLANT SYSTEM
 RCS--REACTOR COOLANT SYSTEM
 [1]---CONTROL ROOM PANEL

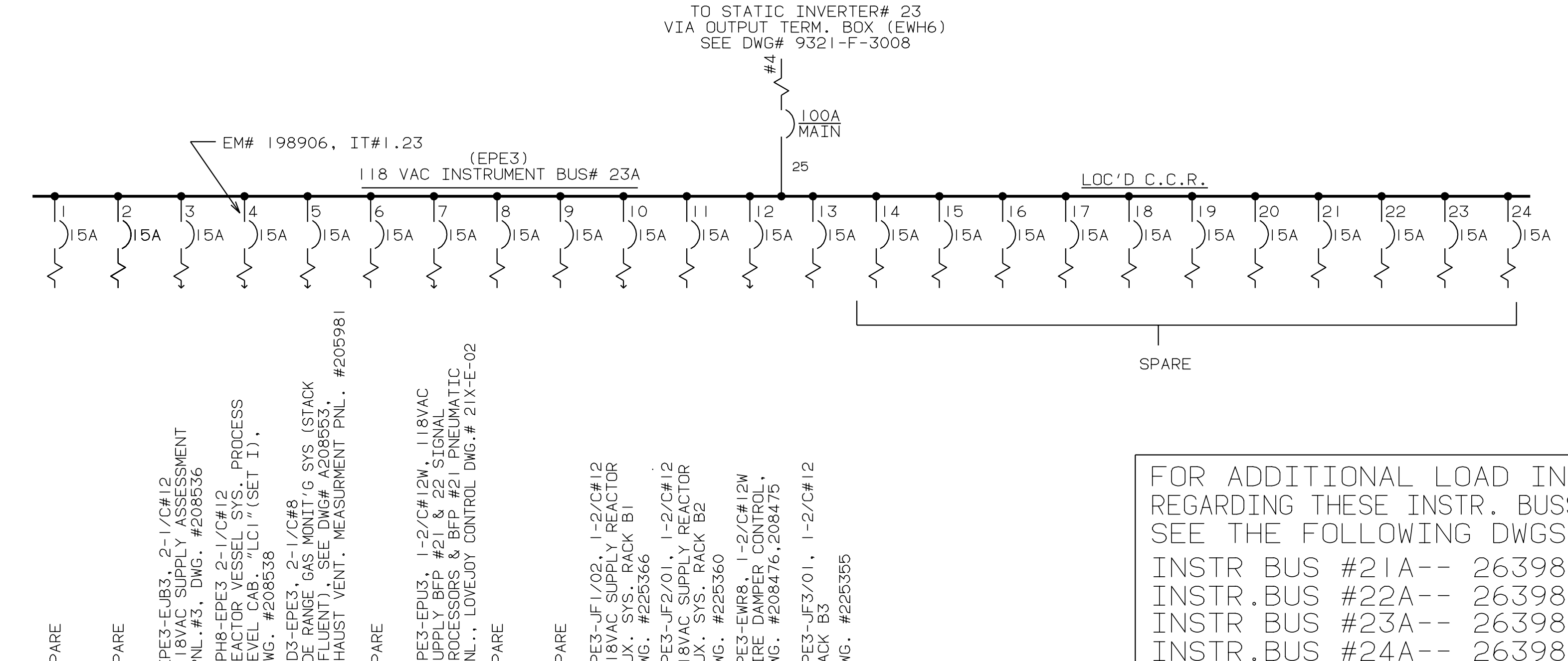
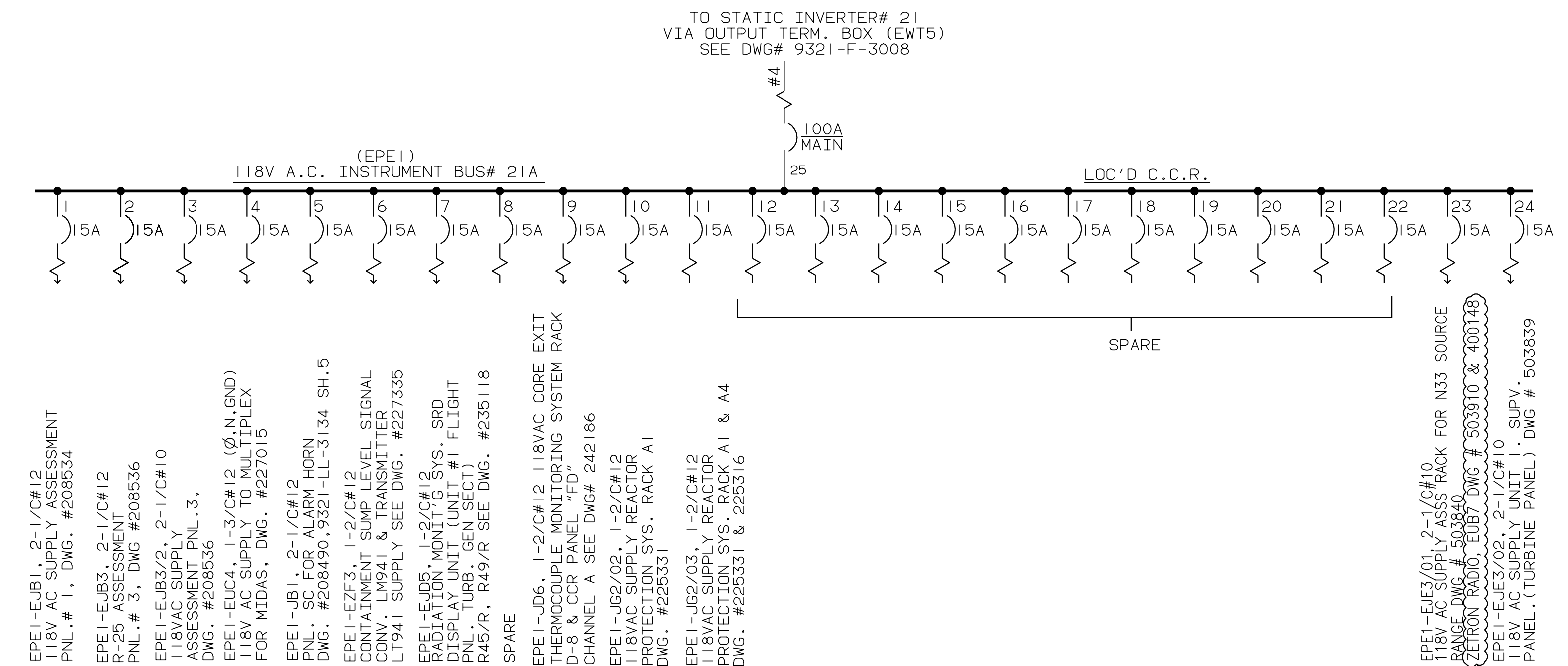
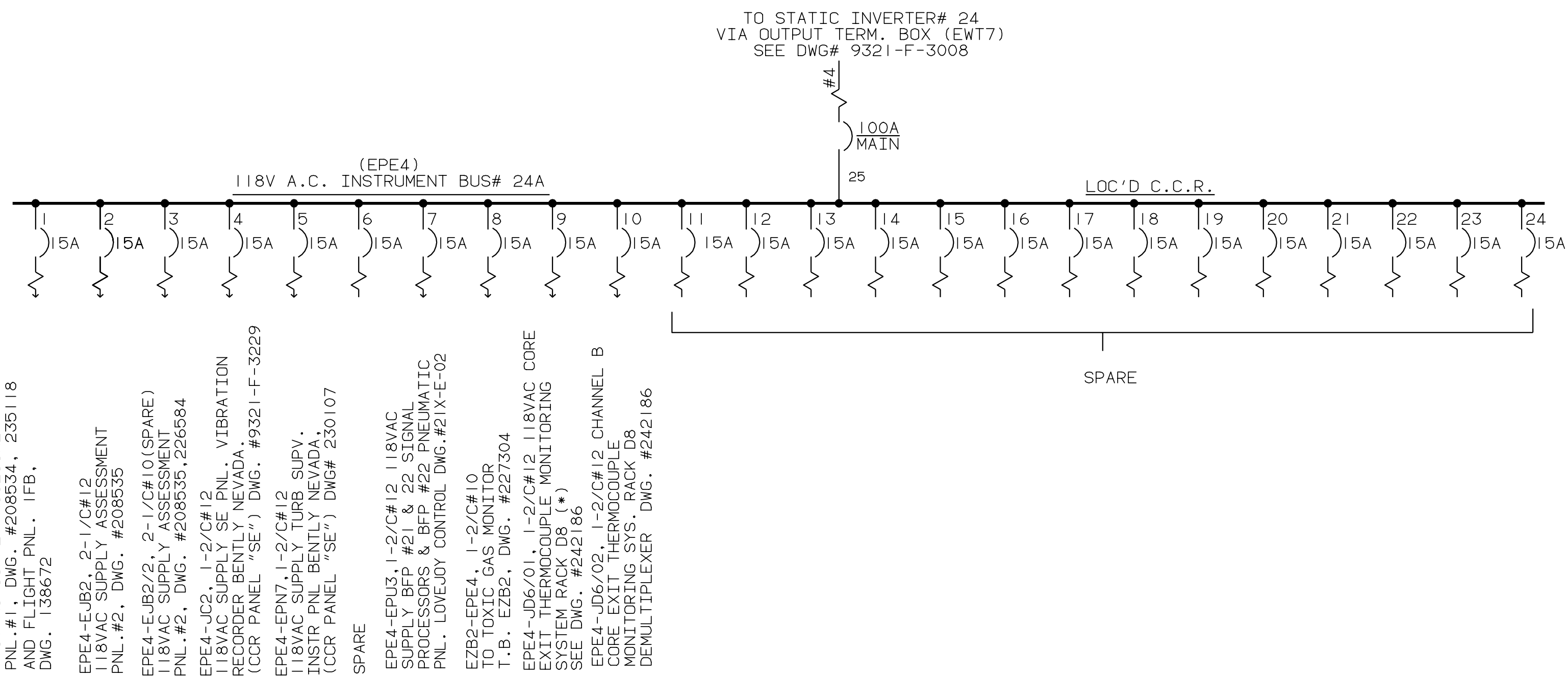
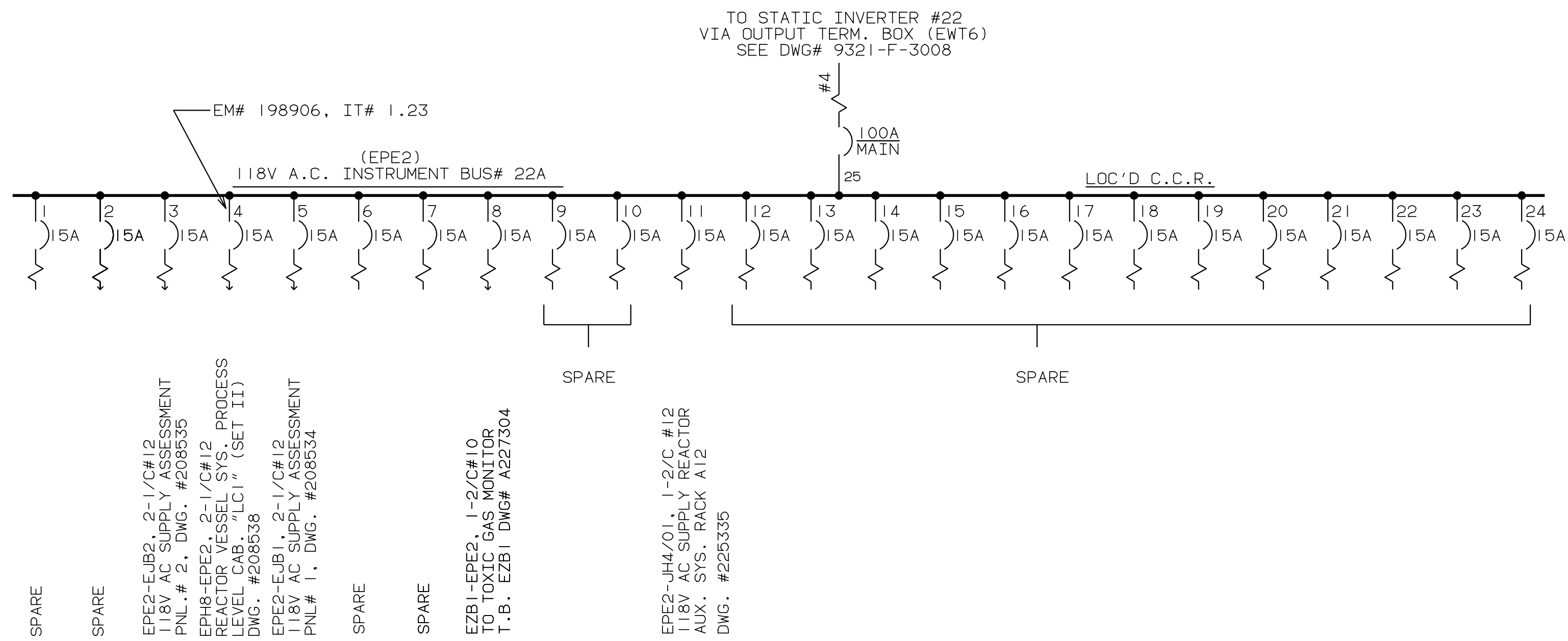
* * *---MAIN BKR IS CUTLER-HAMMER TYPE GHB 100A-1 POLE
 PANELS ARE SUPPLIED BY NLI.
 FOR OTHER SYMBOLS SEE CON ED DWG 225113

[1] SHIELDED SQUARE D ISOLATION TRANSFORMER 120-120V 1Ø IKVA
 SM LOCATION
 PNL.DESIGNATION
 [5] SOLATRON-LINE VOLTAGE REGULATOR 120-120V, 1Ø, IKVA
 SDR LOCATION
 PNL.DESIGNATION

FOR OTHER CONNS. & EQUIPT. ON THIS PNL. SEE DWG# 9321-F-3006
 FOR SCHEM. INFO. OF 118VAC INSTR. BUSES #21A, 22A, 23A & 24A SEE DWG#A208503

65 INCORPORATED EC-55907		04/01/16	SJB	APPROVAL SIGNATURES ON FILE	TITLE: SINGLE LINE DIAGRAM 118 VAC, 1 PHASE INSTR. BUSES NO. 21, 22, 23 AND 24 - UFSAR FIGURE No. 8.2-13	SCALE: NONE	DWG. NO.: A208502-65	ORIGINATOR: INDIAN POINT #2
REV	DESCRIPTION	DATE	BY	CHK'D	APP'D	DRW'G	SCALE	REC'D
1								

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED



FOR ADDITIONAL LOAD INFO REGARDING THESE INSTR. BUSES SEE THE FOLLOWING DWGS:
 INSTR. BUS #21A-- 263984
 INSTR. BUS #22A-- 263985
 INSTR. BUS #23A-- 263986
 INSTR. BUS #24A-- 263987

(*) CONTINUED FROM CIRCUIT #9 ABOVE
 JD5-JK4/02 TO T-SAT (CH B) NR46, NR47, PR403, TR433 PANEL FDF, DWG. 9321-F-3274

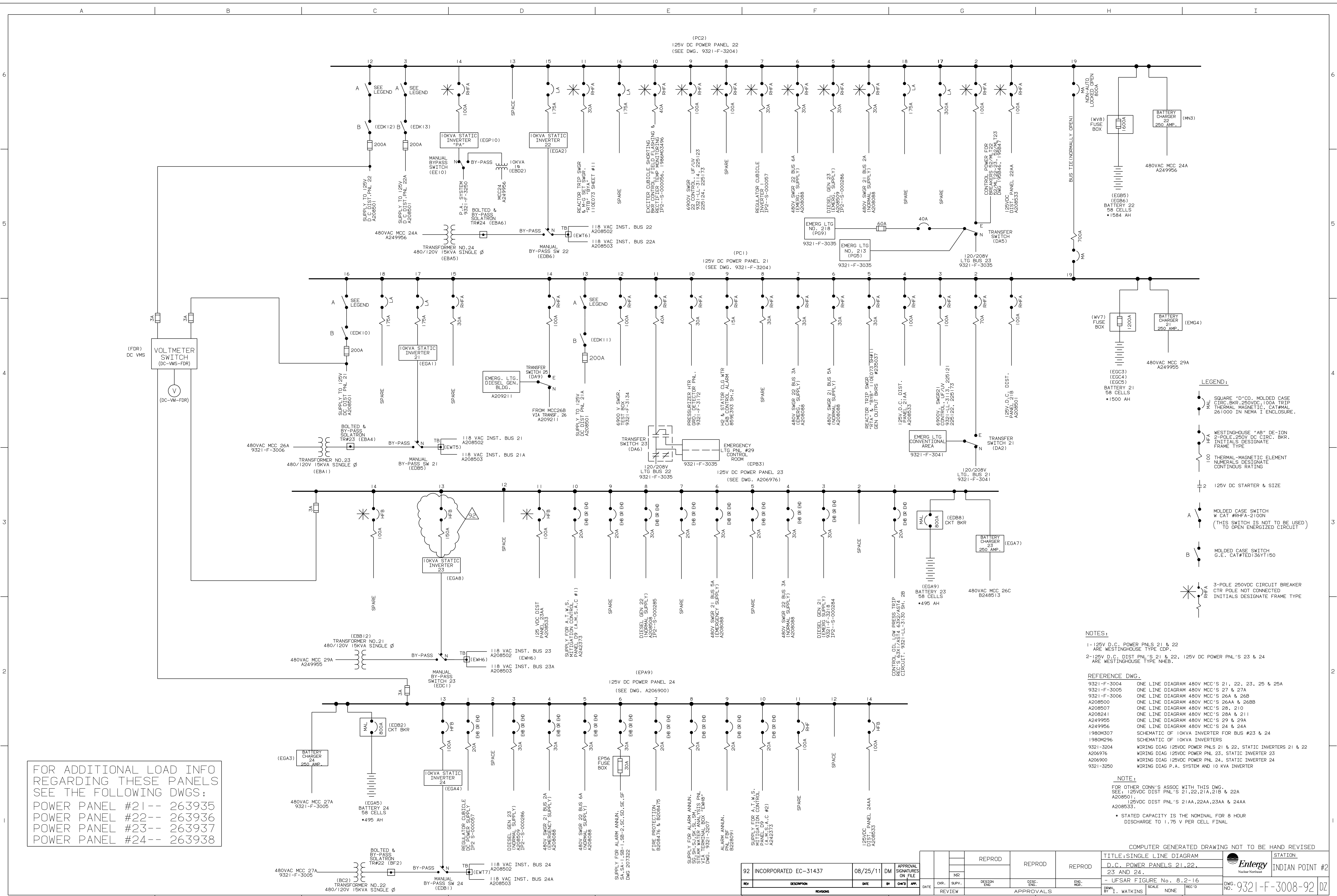
REFERENCE DWGS.:
 SINGLE LINE DIAG. D-C SYSTEM _____ 9321-F-3008
 D/C FOR INSTR. BUSES 21A, 22A, 23A & 24A _____ 208504

NOTES:
 1- FOR SCHEM. INFO. OF 118V AC INSTR. BUSES# 21, 22, 23 & 24 SEE DWG. #208502

37	INCORPORATED EC45124	03/14/15	MP	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	DWG#

TITLE: SCHEM DIA OF 118 VAC INSTR BUSES 21A, 22A, 23A AND 24A (LOCATED IN CCR)		STATION	
- LFSAR FIGURE No. 8.2-14		INDIAN POINT #2	
MOD. PROC. OR SPEC.		DWG. NO.	
SCALE NONE		A208503-37	
DRAWN BY WATKINS		02	





FOR ADDITIONAL LOAD INFO REGARDING THESE PANELS SEE THE FOLLOWING DWGS:
 POWER PANEL #21-- 263935
 POWER PANEL #22-- 263936
 POWER PANEL #23-- 263937
 POWER PANEL #24-- 263938

- LEGEND:**
- SQUARE "D" CO. MOLDED CASE CIR. BKR. 250VDC, 100A TRIP THERMAL MAGNETIC, CAT#MAL 261000 IN NEMA I ENCLOSURE.
 - ⊗ WESTINGHOUSE "AB" DE-ION INITIALS DESIGNATE FRAME TYPE
 - ⊗ THERMAL-MAGNETIC ELEMENT NUMERALS DESIGNATE CONTINUOUS RATING
 - ⊗ 125V DC STARTER & SIZE
 - A ⊗ MOLDED CASE SWITCH (THIS SWITCH IS NOT TO BE USED TO OPEN ENERGIZED CIRCUIT)
 - B ⊗ MOLDED CASE SWITCH G.E. CAT#ED136Y1150
 - ⊗ 3-POLE 250VDC CIRCUIT BREAKER CTR POLE NOT CONNECTED INITIALS DESIGNATE FRAME TYPE

- NOTES:**
- 1-125V D.C. POWER PNLS 21 & 22 ARE WESTINGHOUSE TYPE CDP.
 - 2-125V D.C. DIST PNLS 21 & 22, 125V DC POWER PNLS 23 & 24 ARE WESTINGHOUSE TYPE WHEB.
- REFERENCE DWG.**
- 9321-F-3004 ONE LINE DIAGRAM 480V MCC'S 21, 22, 23, 25 & 25A
 - 9321-F-3005 ONE LINE DIAGRAM 480V MCC'S 27 & 27A
 - 9321-F-3006 ONE LINE DIAGRAM 480V MCC'S 26A & 26B
 - A208500 ONE LINE DIAGRAM 480V MCC'S 26AA & 26BB
 - A208507 ONE LINE DIAGRAM 480V MCC'S 28, 210
 - A208241 ONE LINE DIAGRAM 480V MCC'S 28A & 211
 - A249955 ONE LINE DIAGRAM 480V MCC'S 29 & 29A
 - A249956 ONE LINE DIAGRAM 480V MCC'S 24 & 24A
 - 1980M307 SCHEMATIC OF 10KVA INVERTER FOR BUS #23 & 24
 - 1980M296 SCHEMATIC OF 10KVA INVERTERS
 - 9321-3204 WIRING DIAG 125VDC POWER PNLS 21 & 22, STATIC INVERTERS 21 & 22
 - A206976 WIRING DIAG 125VDC POWER PNL 23, STATIC INVERTER 23
 - A206900 WIRING DIAG 125VDC POWER PNL 24, STATIC INVERTER 24
 - 9321-3250 WIRING DIAG P.A. SYSTEM AND 10 KVA INVERTER
- NOTE:**
- FOR OTHER CONN'S ASSOC WITH THIS DWG. SEE: 125VDC DIST PNLS 21, 22, 21A, 21B & 22A A208501, 125VDC DIST PNLS 21AA, 22AA, 23AA & 24AA A208533.
- * STATED CAPACITY IS THE NOMINAL FOR 8 HOUR DISCHARGE TO 1.75 V PER CELL FINAL

92 INCORPORATED EC-31437				08/25/11	DM	APPROVAL SIGNATURES ON FILE	COMPUTER GENERATED DRAWING NOT TO BE HAND REWIND		TITLE: SINGLE LINE DIAGRAM	STATION	
							REPROD	REPROD	REPROD	INDIAN POINT #2	
							DR.	MR.	DESIGN	DISC.	ENG.
							DATE	REVIEW	APPROVALS	SCALE	REF'D
							BY: H. WATKINS			9321-F-3008-92	02

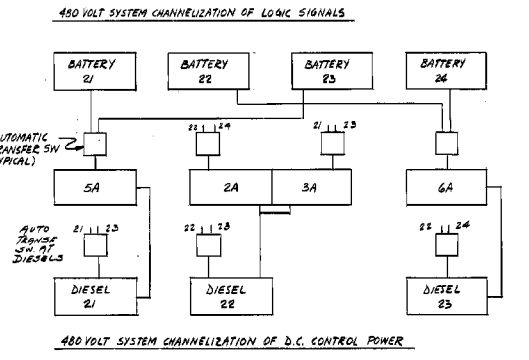
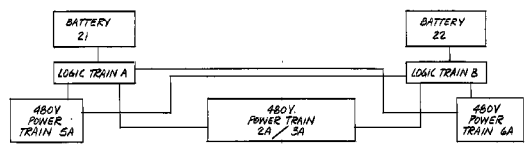
CHANNEL / CONTROL / TRAIN / FUNCTION	FUNCTION	PHYSICAL ROUTING DESIGNATIONS (SEE NOTE 5)
POWER TRAIN SEPARATION DESIGNATIONS		
I (RED)	120 VOLT A.C. INSTRUMENT BUS FEEDS AND ANALOG & DIGITAL SIGNAL OUTPUTS ASSOCIATED WITH 120 VOLT A.C. INSTRUMENT BUSES 21, 22, 23 & 24 RESPECTIVELY	J1 } FOR PROTECTION 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 TRAY) 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 WERE 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
		Δ A THIRD Δ ROUTING EXISTS FOR SELECTED CIRCUITS REQUIRING 3 TRAIN SEPARATION
480VOLT M.C.C. POWER TRAIN 5A AND ASSOCIATED 120VOLT A.C. (M.C.C. CONTROL TRANSFORMER) SMALL POWER & CONTROL CIRCUITS (RED)	480V. M.C.C. POWER & CONTROL	K1 SEE NOTES #1 & #4
480 VOLT M.C.C. POWER TRAIN 6A (YELLOW)	" " " " " "	K2 SEE NOTES #1 & #4
480 VOLT M.C.C. POWER TRAIN 2A (WHITE)	" " " " " "	VARIOUS "D" CHANNELS SEE NOTES #3 & #4
480 VOLT M.C.C. POWER TRAIN 3A (BLUE)	" " " " " "	VARIOUS "D" CHANNELS SEE NOTES #3 & #4
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 NOTES #1 & #4
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 NOTES #1 & #4
HEAVY POWER BUS 5A (RED) (480 VOLT & BUS 6A (YELLOW) (480 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 BUSES 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 480 VOLT SMALL POWER AND 120 VOLT M.C.C. ROUTING DESIGNATIONS. THESE DESIGNATIONS HAVE BEEN FURTHER EXPANDED IN THE RACEWAY SYSTEM TO PROVIDE ADDITIONAL ROUTING OF FUNCTIONAL INFORMATION

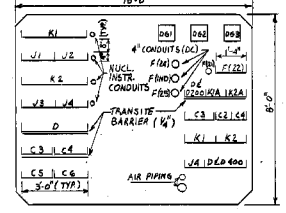
ROUTING ASSOCIATED WITH K1 480/120VAC EXCEPT AS NOTED	ROUTING ASSOCIATED WITH K2D BATTERY 22	ROUTING ASSOCIATED WITH K3D BATTERY 23	ROUTING ASSOCIATED WITH K2	ROUTING OR FUNCTIONS
K1 (RED)	—	—	K2 (YELLOW)	GENERAL DESIGNATIONS USED IN MOST AREAS OF THE PLANT AND FOR MOST FUNCTIONS ▲ D-2400 - EXISTS FOR 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. 24A & M.C.C. 24B
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 K4 & LOGIC ONLY K4D (YELLOW)	BATTERY 21 & 22 LOGIC SIGNALS AND CONTROL POWER (K1 & K2) RESPECTIVELY AND NEW ROUTINGS FOR 120VOLT 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

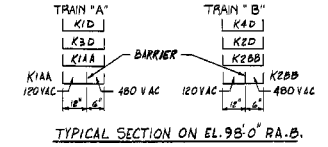


NOTES CONTINUED:

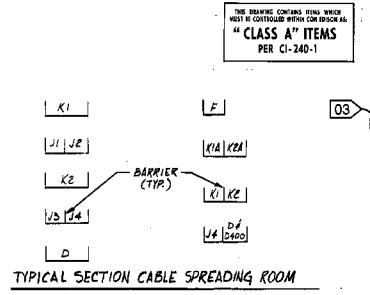
4. IN THE ORIGINAL PLANT DESIGN SEPARATION WAS SET UP ON A CIRCUIT BY CIRCUIT BASIS RATHER THAN A "UNITIZED" FIXED "BUS TO ROUTING CHANNEL" ASSOCIATION (E.G. C1 & BUS 5A) SINGLE FAILURE IS MET FOR THESE CASES BECAUSE OF THE FLEXIBILITY OF REDUNDANT TRAIN A AND B LOGIC AND CONTROL SIGNALS TO EACH BUS (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 B0-8 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. BUILDING, TSC, RESPIRATOR FACILITY, PLANT OFFICES, ETC.) ALL TERMINAL BLOCKS INSTALLED SHALL BE QUALIFIED TO IEEE 825 AND 24A 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

Edison CONE POWER PLANT

REVISIONS

THIS REV. IS CLASS "A" AS PER CI-240-100 PROC. 4. 4.3G 90-2-21 UNLESSED FOR UNDESIGNATION P.N. 50049-50 (1/11) 4.1/11 4.1/11

THIS REV. IS CLASS "A" AS PER CI-240-100 PROC. 4. 4.3G 90-2-21 UNLESSED FOR UNDESIGNATION P.N. 50049-50 (1/11) 4.1/11 4.1/11

THIS REV. IS CLASS "A" AS PER CI-240-100 PROC. 4. 4.3G 90-2-21 UNLESSED FOR UNDESIGNATION P.N. 50049-50 (1/11) 4.1/11 4.1/11

THIS REV. IS CLASS "A" AS PER CI-240-100 PROC. 4. 4.3G 90-2-21 UNLESSED FOR UNDESIGNATION P.N. 50049-50 (1/11) 4.1/11 4.1/11

VI 47998

03

THIS REVISION IS PER CLASS "A" DESIGN CHANGES TO INCLUDE UPFRONT SIGNING IN A TRAY PER APPROVAL REQUIRED FOR RECORD DRAWING STRUCTURE ENGINEERING

A 208761-3

CONSOLIDATED EDISON CO. OF NEW YORK, INC.

STATION **INDIAN POINT**

CABLE TRAY SEPARATION FUNCTIONS & ROUTING DESIGNATIONS - 03

DATE **11/11/11**

DESIGNER **JAC**

CHECKED **JAC**

APPROVED **JAC**

REVISIONS

NO. 1: THIS REV. IS CLASS "A" AS PER CI-240-100 PROC. 4. 4.3G 90-2-21 UNLESSED FOR UNDESIGNATION P.N. 50049-50 (1/11) 4.1/11 4.1/11