

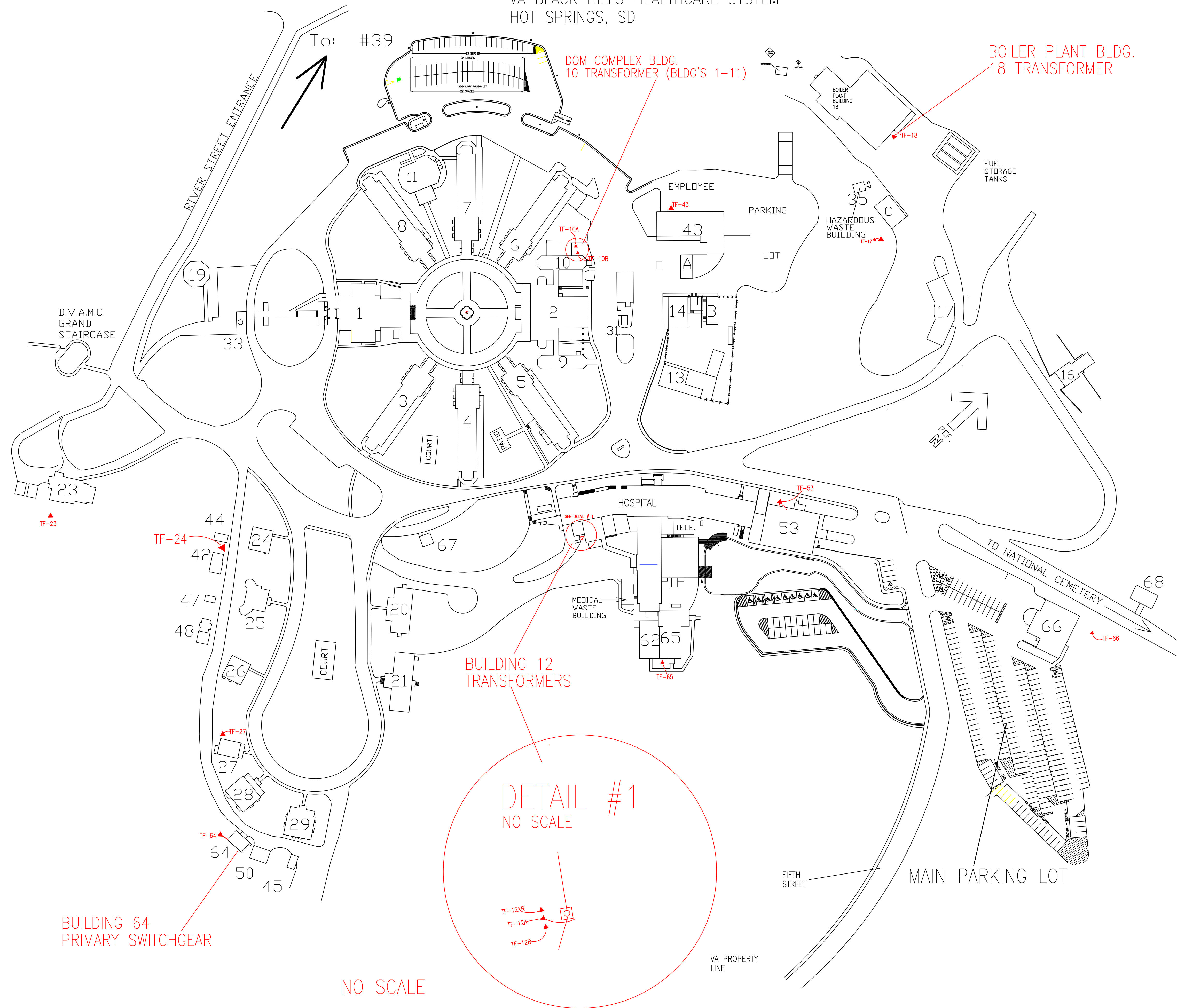
TESTING & CALIBRATING ELECTRICAL SYSTEMS
V.A. BLACK HILLS HEALTH CARE SYSTEM
HOT SPRINGS, S.D. AND FORT MEADE, S.D.

SHEET INDEX

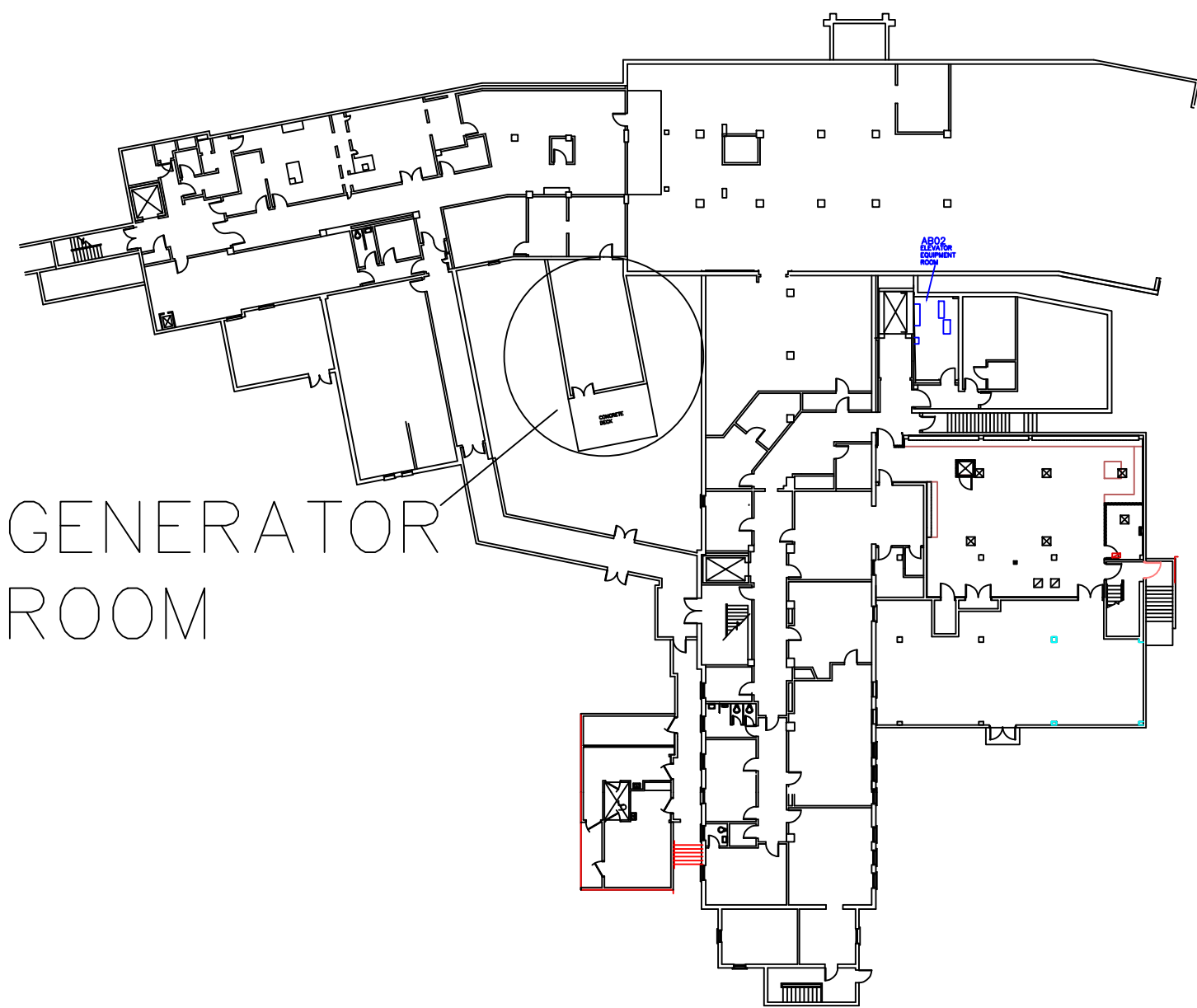
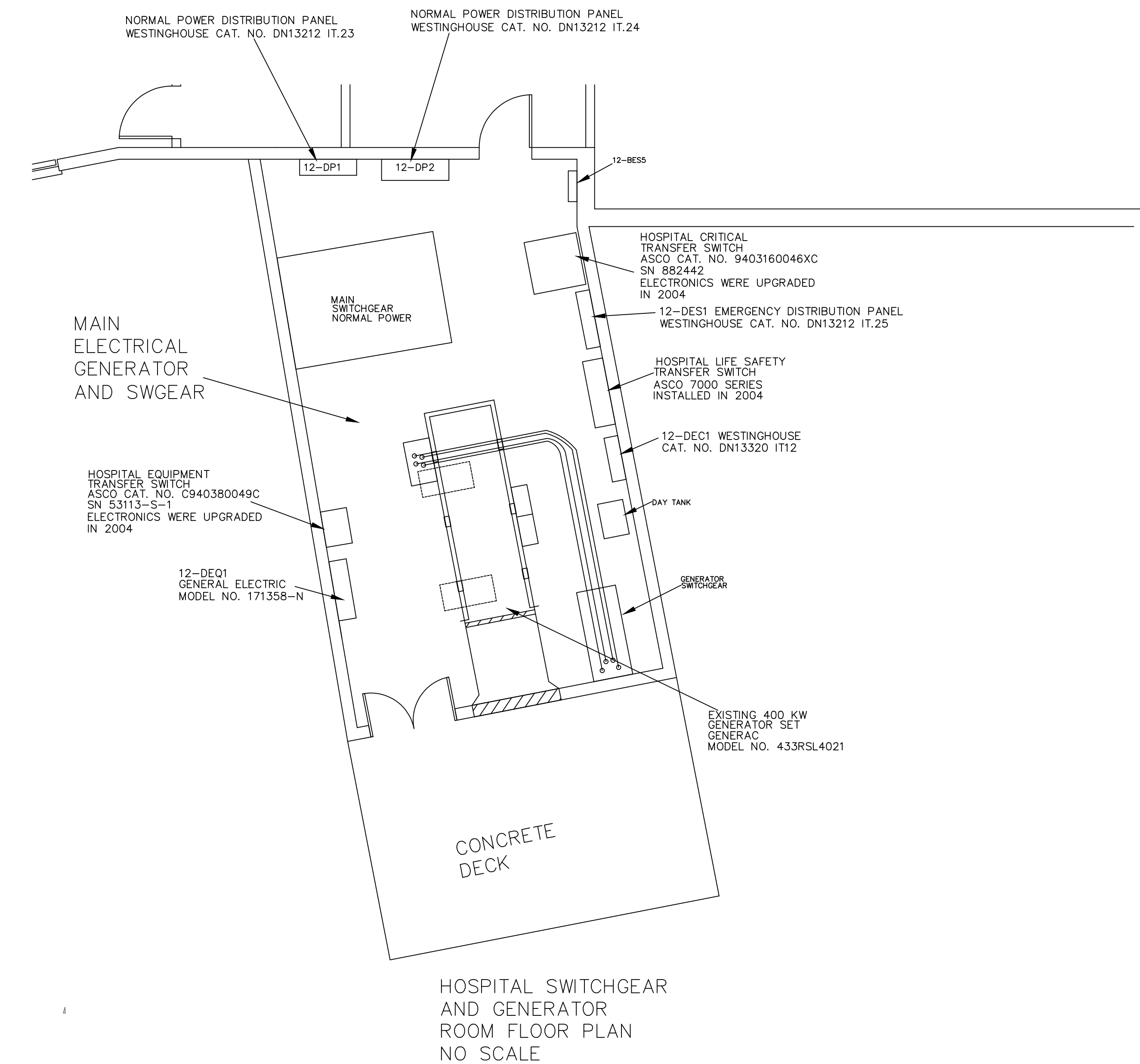
T-1	TITLE SHEET
E-1	HOT SPRINGS SITE PLAN
E-2	HOT SPRINGS PRIMARY SWITCHGEAR AND HOSPITAL SWITCHGEAR
E-3	HOT SPRINGS 15KV SWITCHGEAR
E-4	HOT SPRINGS PRIMARY POWER ONE-LINE DIAGRAM
E-5	HOT SPRINGS DOM COMPLEX ONE-LINE DIAGRAM
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E-7	HOT SPRINGS BUILDING 12 NORMAL POWER RISER DIAGRAM
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Drawing Title TITLE SHEET		Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS			Date May 2017
					Project No.
Approved Division Chief	Building Number	Checked	Drawn DS	DRAWING NO. T-1	
Approved Service Director	Location HOT SPRINGS, SOUTH DAKOTA			Dwg 1 Of 18	

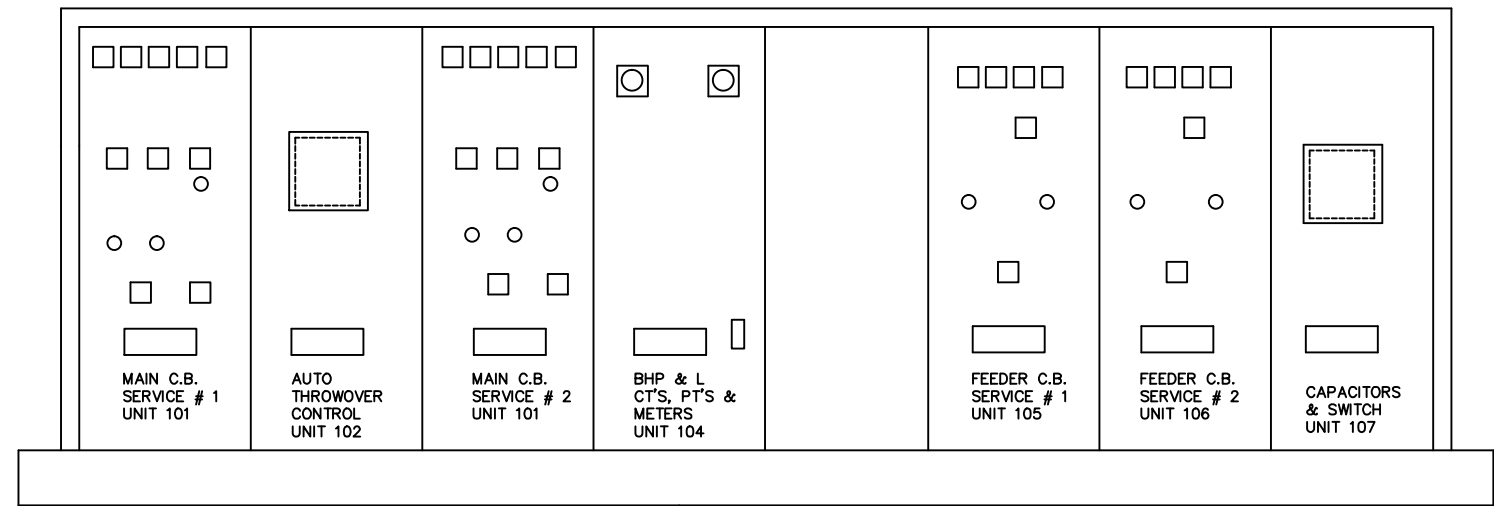
VA BLACK HILLS HEALTHCARE SYSTEM
HOT SPRINGS, SD



Drawing Title	Project Title	Date
HOT SPRINGS SITE PLAN	TESTING & CALIBRATING ELECTRICAL SYSTEMS	May 2017
Approved Division Chief	Building Number	Project No.
Approved Service Director	Checked	DRAWING NO.
	DS	E-1
	Location	Sheet 2 of 18
	HOT SPRINGS, SOUTH DAKOTA	



BUILDING 12 BASEMENT FLOOR
NO SCALE

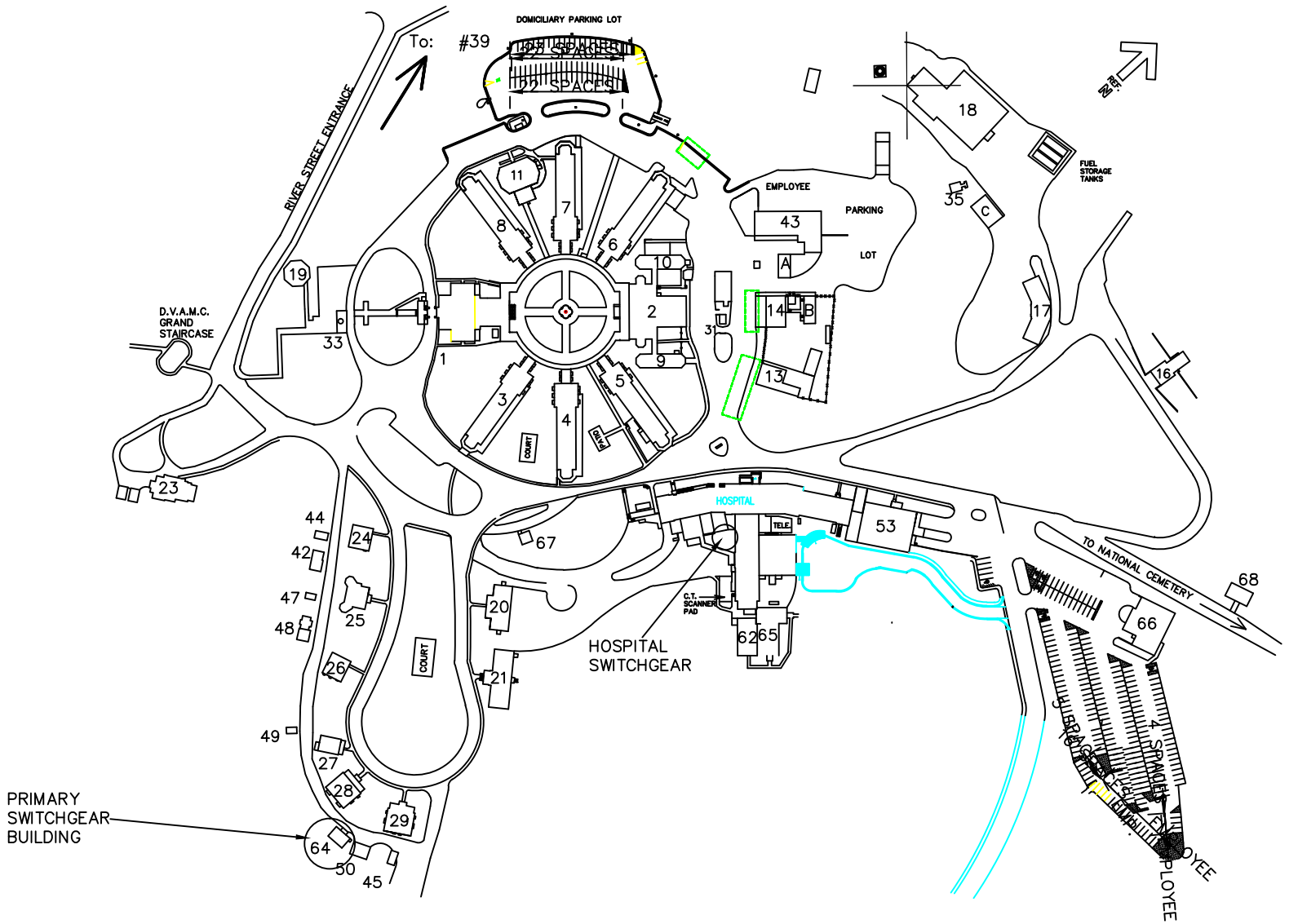


MAIN PRIMARY SWITCHGEAR – BUILDING # 64
WESTINGHOUSE MODEL DS
INSTALLED 1978

UNIT 101	UNIT 102	UNIT 103	UNIT 104	UNIT 105
FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 800/3 FRAME 800A TRIP	METER CABINET	METER CABINET	SPARE SPACE	METER CABINET
FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 800/3 FRAME 400A TRIP	TIE DRAW OUT POWER AIR CIRCUIT BREAKER 1" 2000/3 FRAME NON-AUTOMATIC TRIP ONLY	EMPTY BAY NO BREAKER	FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 800/3 FRAME 800A TRIP	FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 800/3 FRAME 800A TRIP
FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 800/3 FRAME SPACE ONLY	MAIN DRAW OUT POWER AIR CIRCUIT BREAKER MAIN A 2000/3 FRAME 2000A TRIP	MAIN DRAW OUT POWER AIR CIRCUIT BREAKER MAIN B 2000/3 FRAME 2000A TRIP	1600A BREAKER	EMPTY BAY NO BREAKER
FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 800/3 FRAME SPACE ONLY	EMPTY BAY NO BREAKER	FUSED – DRAW OUT POWER AIR CIRCUIT BREAKER 1600/3 FRAME 1600 A TRIP	2000A SPARE BREAKER	1600A SPARE BREAKER

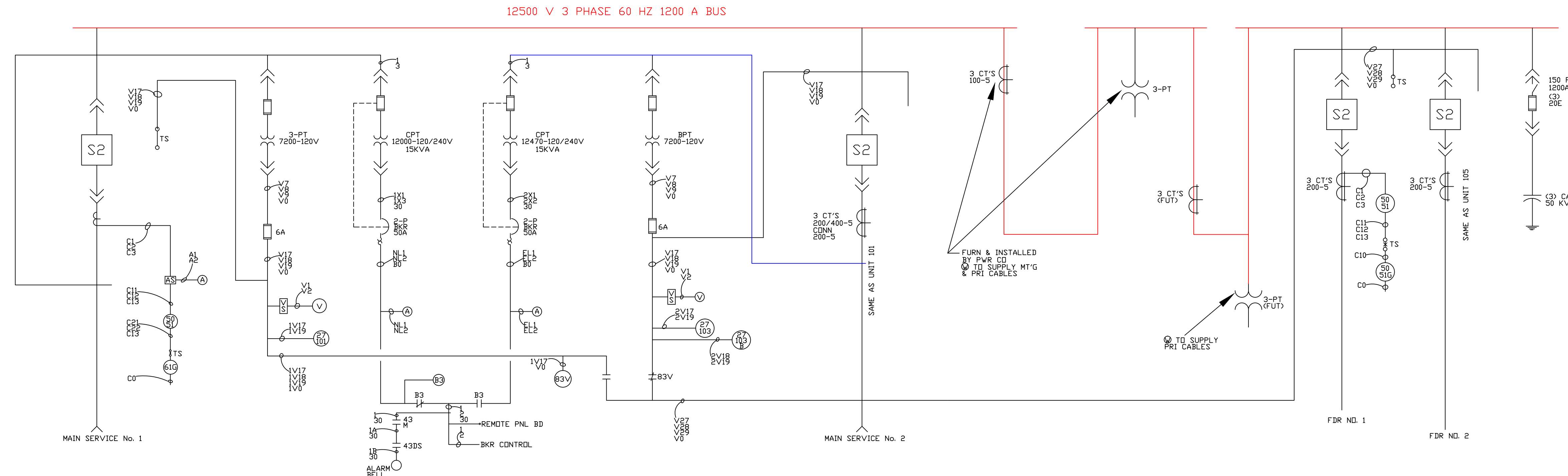
MAIN SWITCHGEAR – BUILDING # 12
WESTINGHOUSE MODEL DN-13212
INSTALLED 1978

NO SCALE



HOT SPRINGS SITE

Drawing Title HOT SPRINGS PRIMARY SWITCHGEAR AND HOSPITAL SWITCHGEAR	Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS		Date May 2017	
	Building Number 12, 64		Project No.	
	Approved: Division Chief		Drawing No. E-2	
Approved: Service Director		Location HOT SPRINGS, SOUTH DAKOTA		Dwg 3 of 18



DESCRIPTION OF OPERATION

NORMAL OPERATION IS WITH EITHER INCOMING SERVICE LINE BREAKER CLOSED. EITHER LINE, NO. 1 OR NO. 2 WHICH IS CLOSED, IS DESIGNATED AS THE "PREFERRED" LINE, AND THE OTHER LINE IS THEN THE "SECONDARY" LINE. (LOSS OF PRIMARY POWER)

MAKE SURE THAT THE LOCKOUT RELAYS 66mm-101 & 66R-103 ARE IN THE RESET POSITION, AND THE "STOP-MANUAL" TRANSFER SWITCH, DEVICE 43 IN THE CONTROL BOX ON SWITCHGEAR PANEL 102, IS IN THE MANUAL POSITION BEFORE CLOSING ONE OF THE INCOMING SERVICE LINE BREAKERS TO ENERGIZE THE MAIN BUS FOR NORMAL OPERATION. AFTER THE BREAKER HAS BEEN CLOSED, THE TRANSFER SWITCH, DEVICE 43, MUST BE TURNED TO THE "AUTO" POSITION TO PERMIT AUTOMATIC TRANSFER IN THE EVENT THERE IS A LOSS OF VOLTAGE ON THE PREFERRED LINE.

CAUTION - BE SURE THE PANEL FOR THE CONTROL BOX, ON THE SWITCHGEAR PANEL NO. 102, IS CLOSED BEFORE LEAVING THE STATION IF AUTOMATIC OPERATION IS REQUIRED.

IF THE ALARM BELL SOUNDS WHEN THE CONTROL BOX PANEL IS CLOSED IT INDICATES THAT THE TRANSFER SWITCH, DEVICE 43, IS IN THE "MANUAL" POSITION.

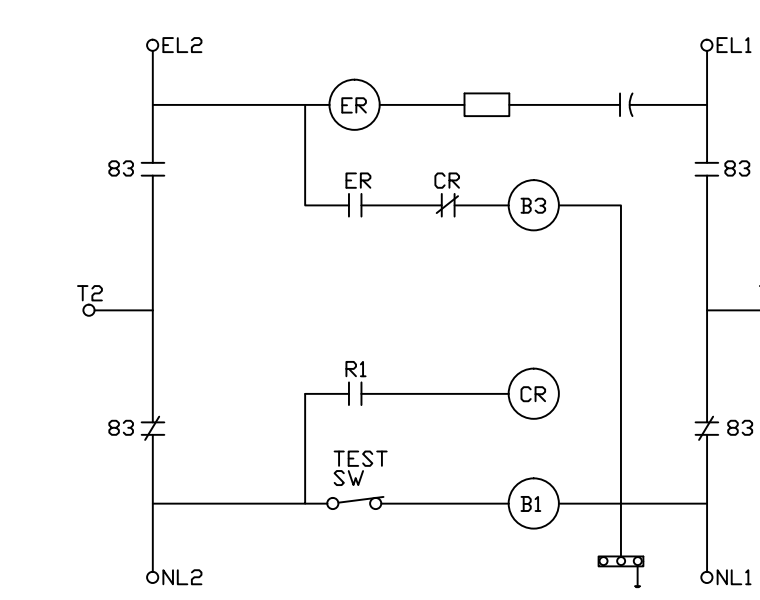
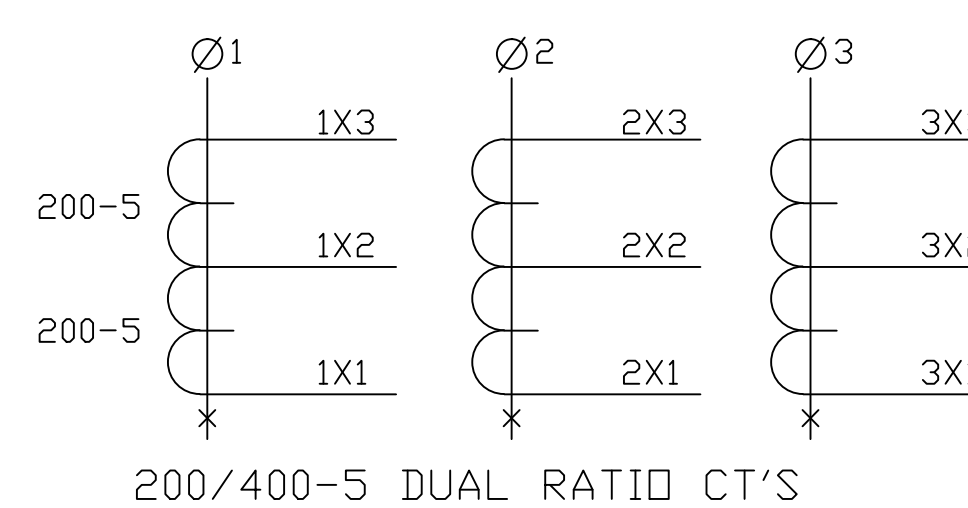
IN THE EVENT THE "PREFERRED" INCOMING SERVICE LINE BECOMES DE-ENERGIZED, THE UNDERVOLTAGE RELAY 27 WILL DROP OUT AND PICK UP AUXILIARY RELAY 27E, PROVIDING NORMAL VOLTAGE IS ON THE ENERGIZED LINE.

THE "PREFERRED" LINE BREAKER WILL BE TRIPPED, AND THE ENERGIZED LINE BREAKER WILL CLOSE IMMEDIATELY THEREAFTER TO REENERGIZE THE MAIN FUSE AND NORMAL OPERATION.

RETRANSFER BACK TO THE ORIGINAL NORMAL OPERATION WILL NOT OCCUR WHEN THE FAULTED LINE IS REENERGIZED. THE LINE WITH THE CLOSED BREAKER BECOMES THE "PREFERRED" LINE, AND THE ONE WITH THE OPEN BREAKER BECOMES THE "EMERGENCY" LINE. AUTOMATIC TRANSFER WILL TAKE PLACE, AS DESCRIBED, ABOVE, IN THE EVENT THE "PREFERRED" INCOMING SERVICE LINE BECOMES DEENERGIZED.

IF EITHER INCOMING LINE BREAKER IS TO BE OPERATED (CLOSE OR TRIP) BY THE CONTROL SWITCH ON THE SWITCHGEAR PANEL, THE TRANSFER SWITCH, DEVICE #3, MUST BE IN THE "MANUAL" POSITION, THE TWO INCOMING LINE BREAKERS ARE ELECTRICALLY INTERLOCKED TO PREVENT BOTH BREAKERS FROM BEING CLOSED IN THE CONNECTED POSITION. EITHER BREAKER, WHEN IN THE TEST POSITION OR OUT OF THE CELL, CAN BE CLOSED THOUGH THE OTHER BREAKER IS CLOSED AND IN SERVICE.

IF THERE IS AN OVERCURRENT FAULT ON THE INCOMING LINE THAT IS IN SERVICE, ONE OR MORE OF THE OVERCURRENT RELAYS 50/51 OR 316 WILL OPERATE TO PICK UP THE LOCKOUT RELAY, 66BR. THIS WILL TRIP AND LOCKOUT THE "PREFERRED" LINE BREAKER AND LOCK OUT THE "EMERGENCY" LINE BREAKER.

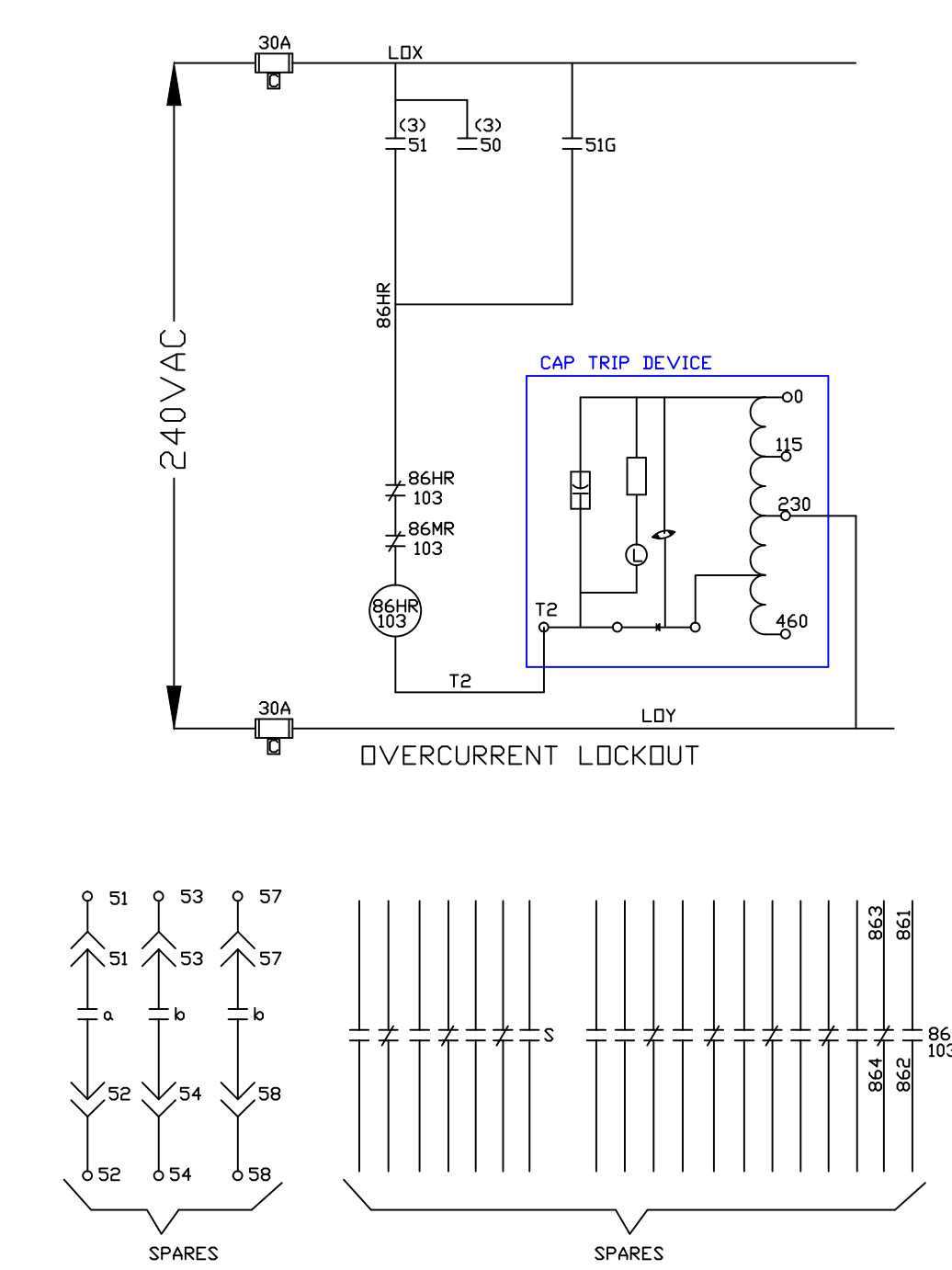
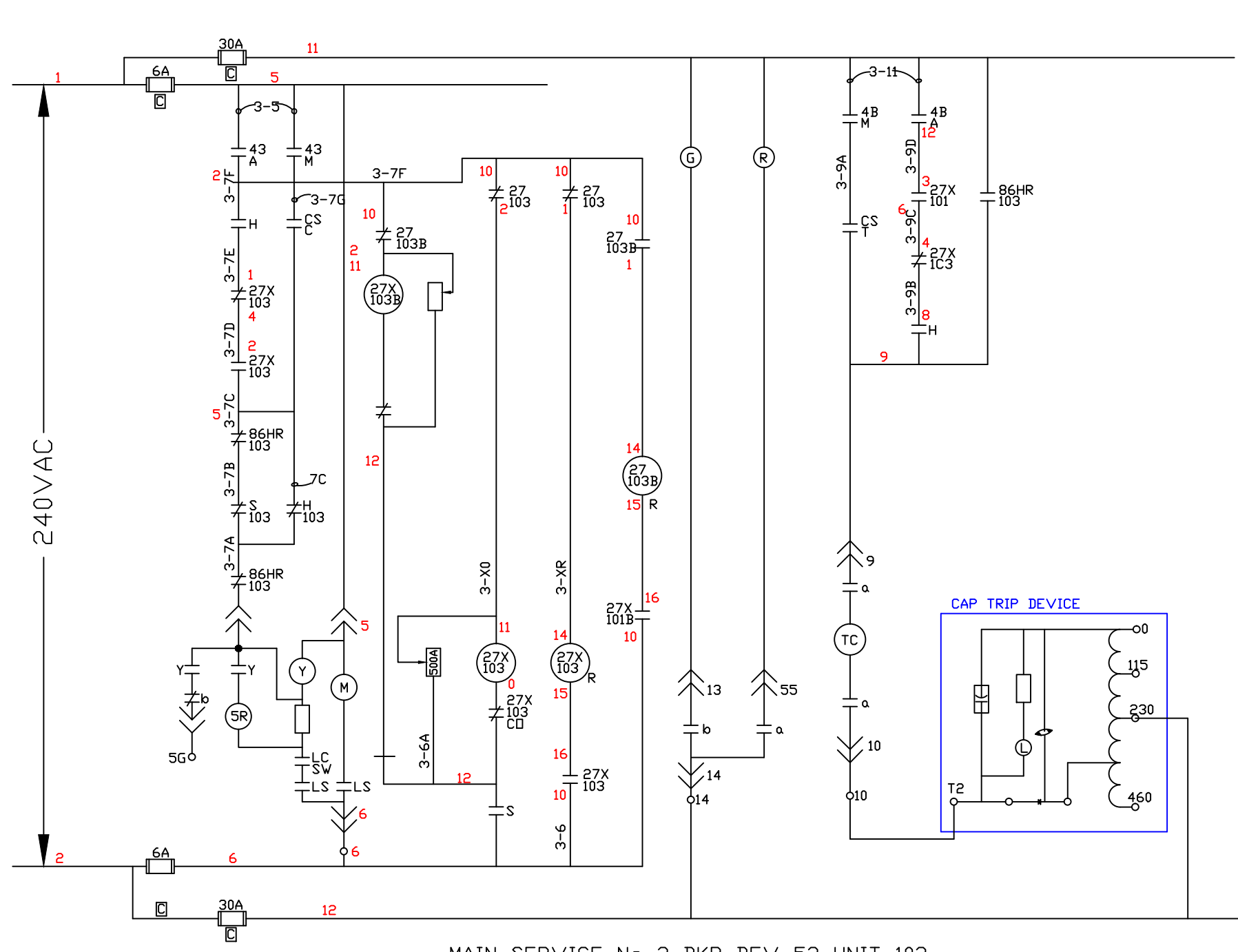
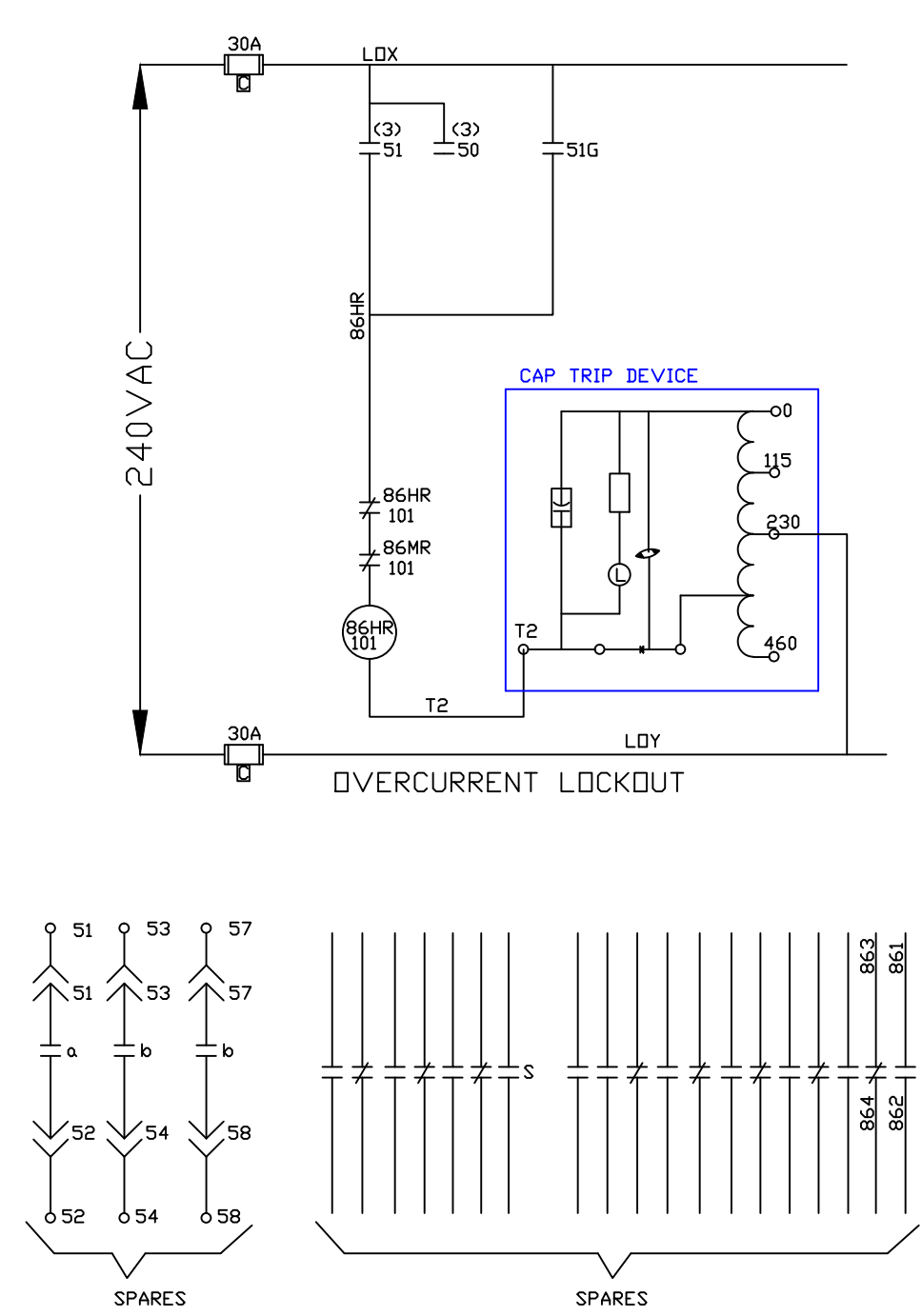
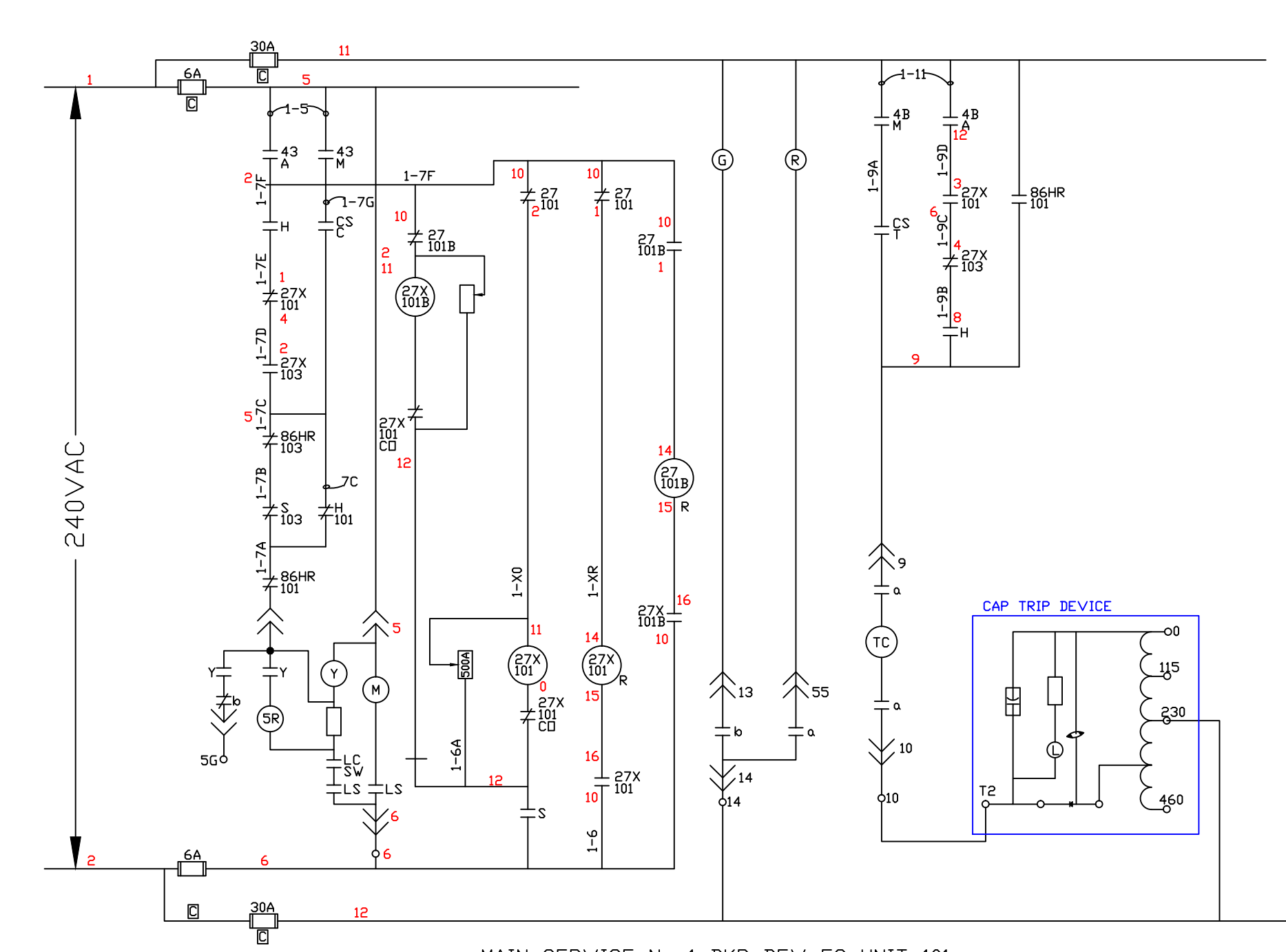


DEVICE OF OPERATING SEQUENCE

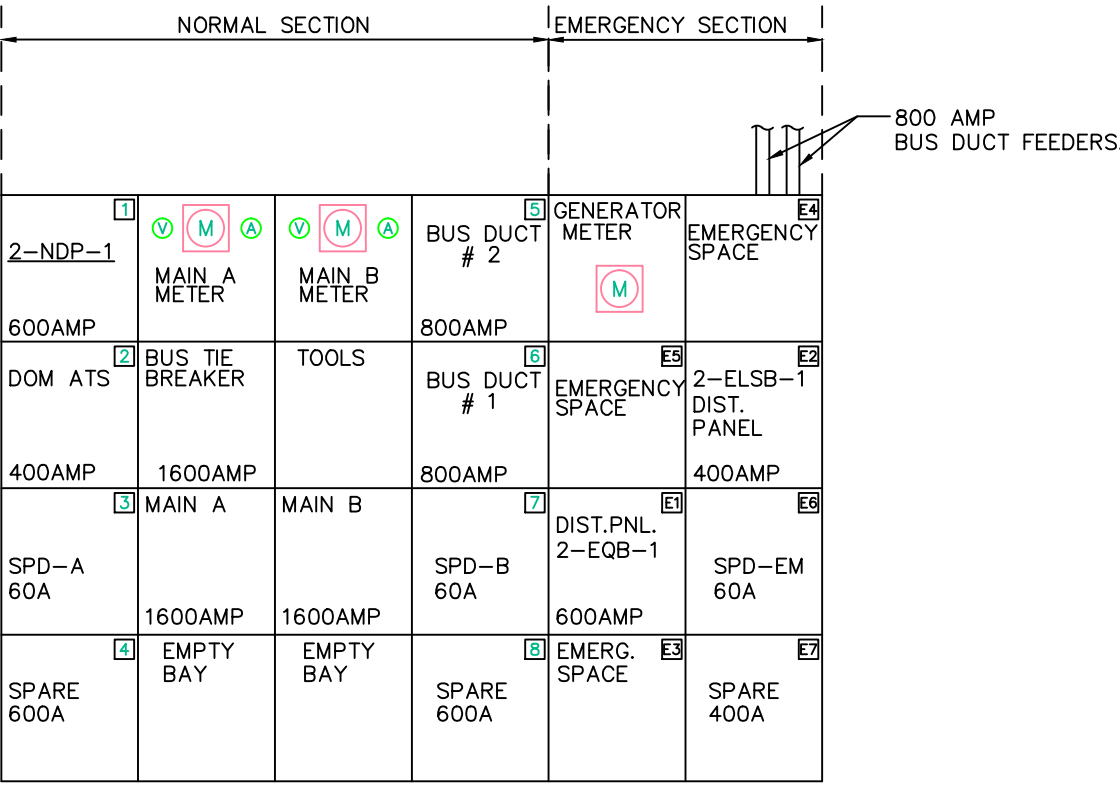
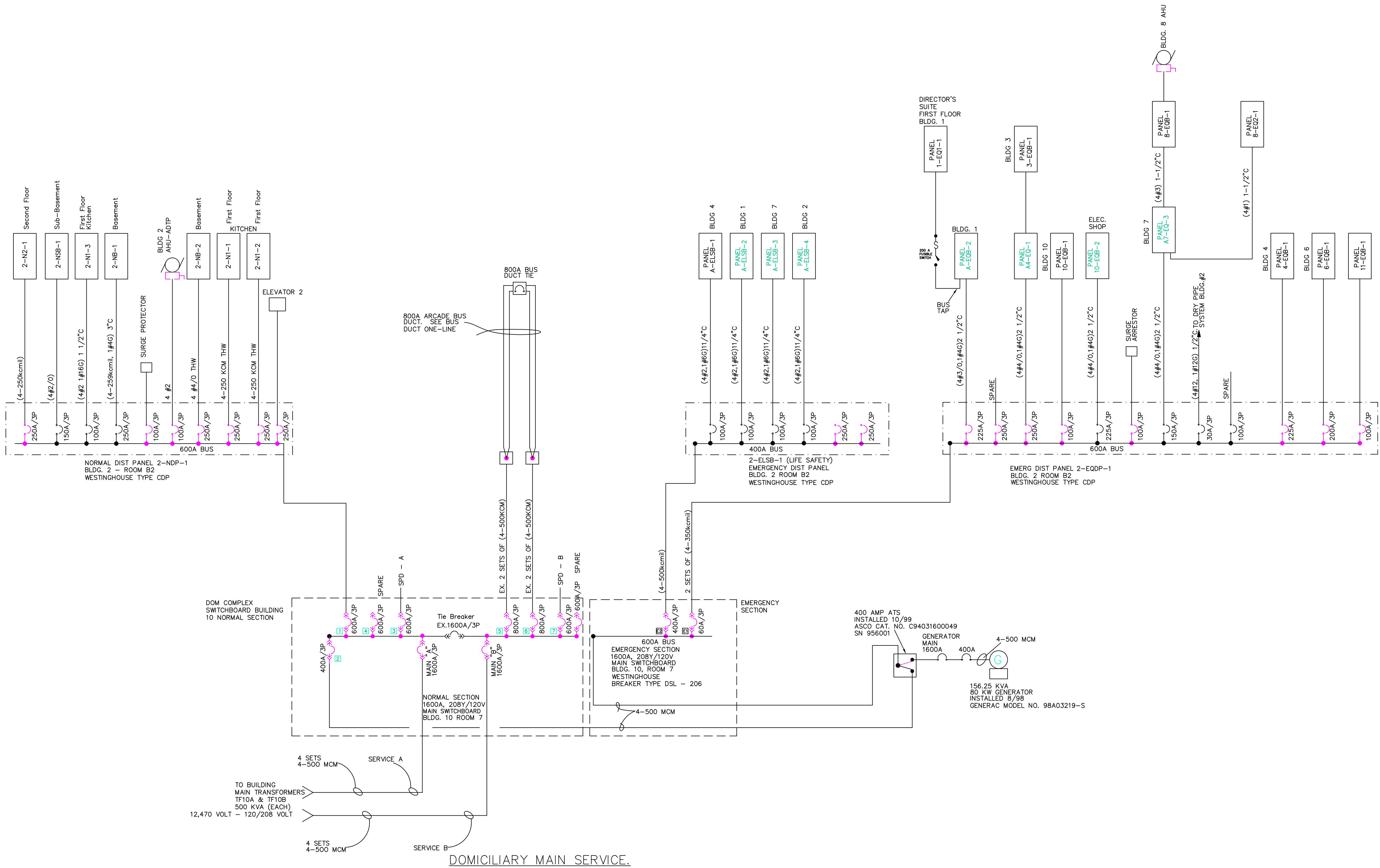
WHEN NORMAL LINE IS DE-ENERGIZED, RELAY B1 WILL BE DE-ENERGIZED, THIS IN TURN WILL LEAVE CR DE-ENERGIZED WITH ITS CONTACT CLOSED IN THE B3 COIL CIRCUIT, PROVIDING THE EMERGENCY LINE IS ENERGIZED CR COIL WILL PICKUP AND CLOSE ITS CONTACT TO ENERGIZE B3 AND TRANSFER TO THE EMERGENCY SOURCE.

WHEN THE NORMAL LINE RESTORES, THE B1 RELAY OPERATES. THE CR RELAY IS ENERGIZED DISCONNECTING THE B3 COIL CIRCUIT. THE LOAD IS RELEASED FROM THE EMERGENCY LINE VOLTAGE AND IMMEDIATELY RESTORED TO THE NORMAL LINE.

- 1 - CLOSED WHEN DE-ENERGIZED
- 27X DEVICE
- W MG-6 AUX RELAY
STYLE # 28913473A26
I.L. # 41-753.1
- 27 DEVICE
- W CV-7 STYLE # 71913950A30
I.L. # 41-201 183A283 240V
#1 & 03 INOUT A 9,8
- CONTACT OUTPUT
- 10 - COMMON
1 - CLOSED WHEN ENERGIZED (NORMAL)
2 - CLOSED WHEN DE-ENERGIZED (LOSS OF PRIMARY POWER)

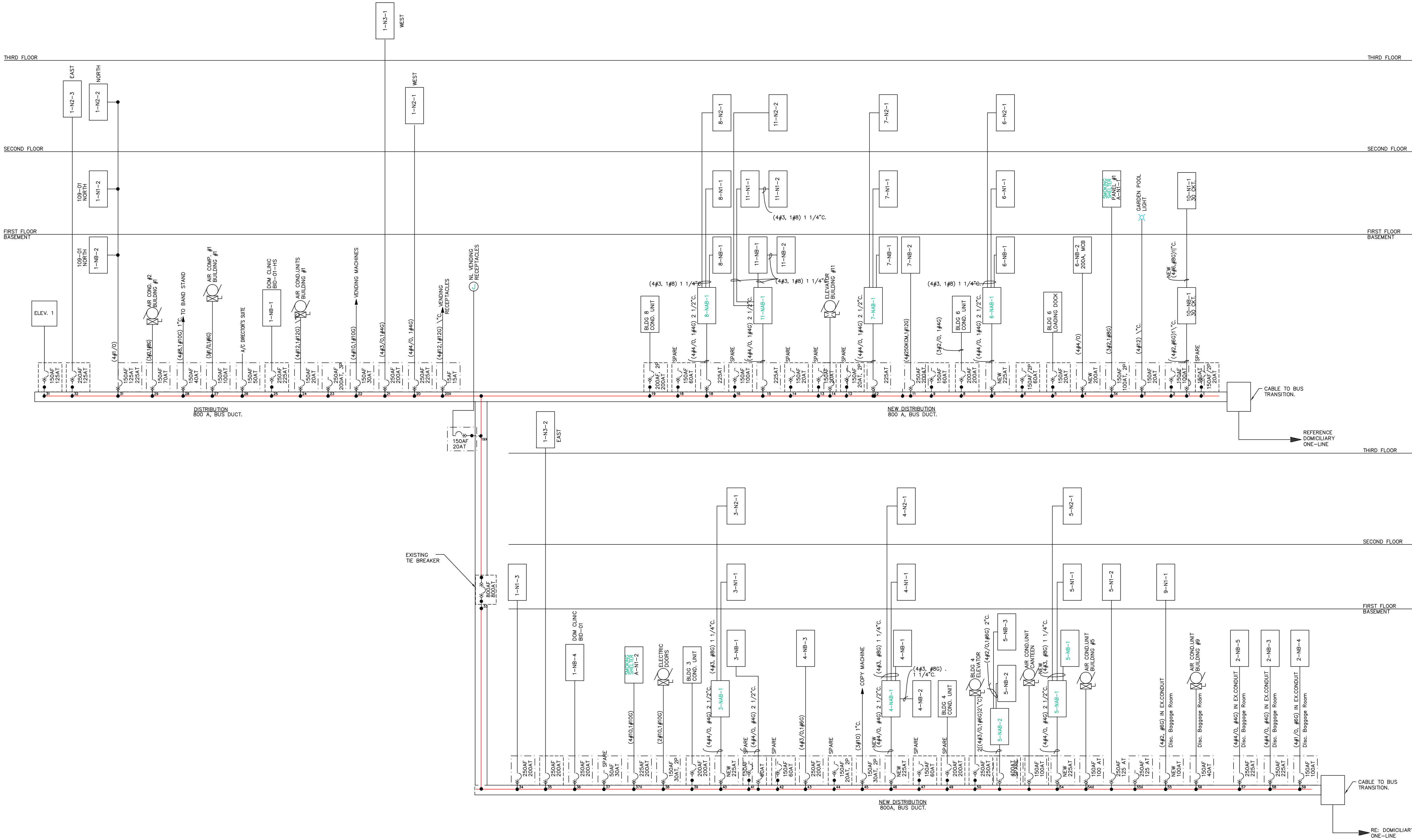


Drawing Title	Project Title	Date
HOT SPRINGS 15KV SWITCHGEAR	TESTING & CALIBRATING ELECTRICAL SYSTEMS	May 2017
Approved: Division Chief	Building Number	Project No.
Approved: Service Director	Location	DRAWING NO.
	HOT SPRINGS, SOUTH DAKOTA	E-3
		Dwg4 Of 18



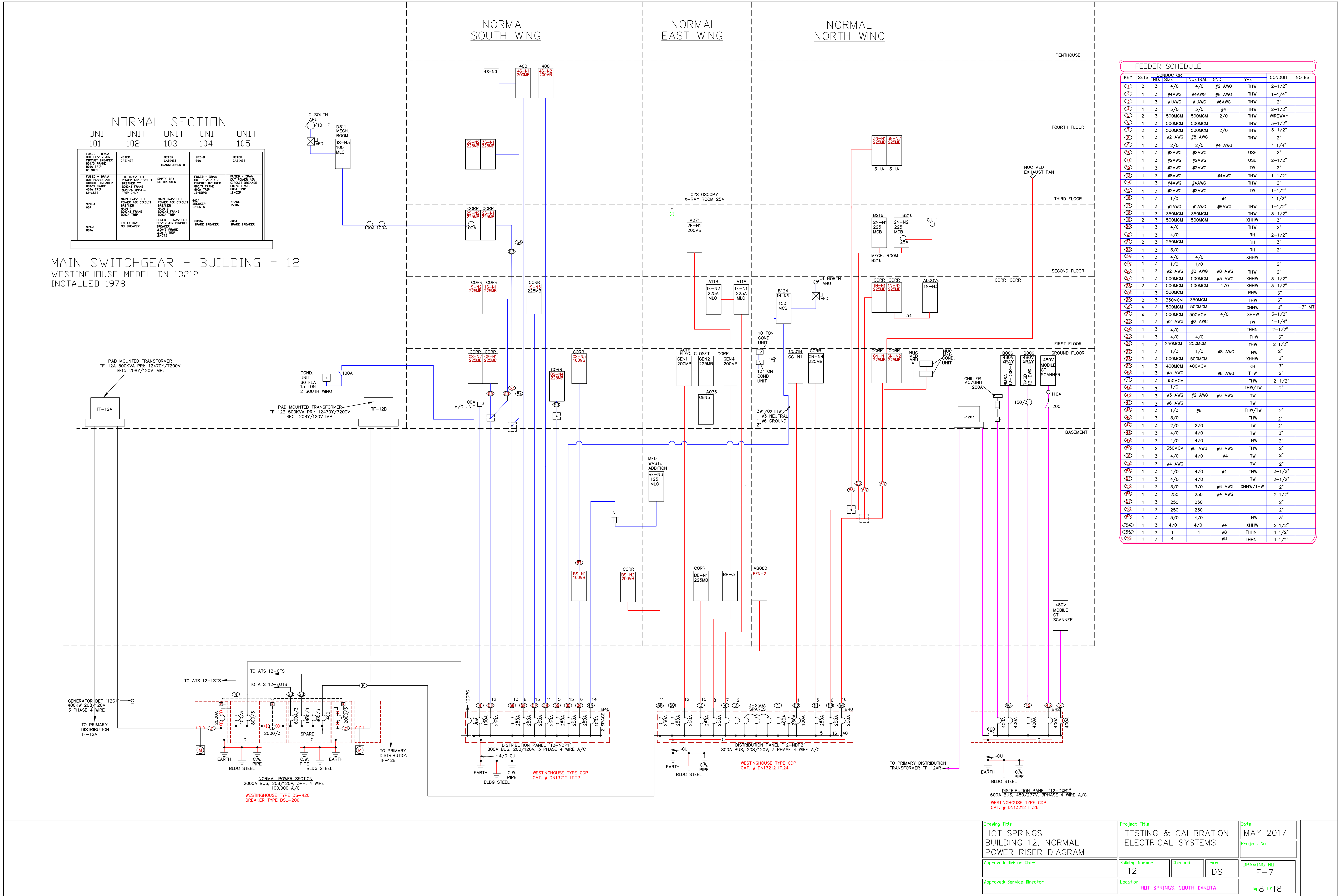
DOM-COMPLEX
ELEVATION MAIN SWITCHBOARD
N.T.S.
WESTINGHOUSE DN-13212

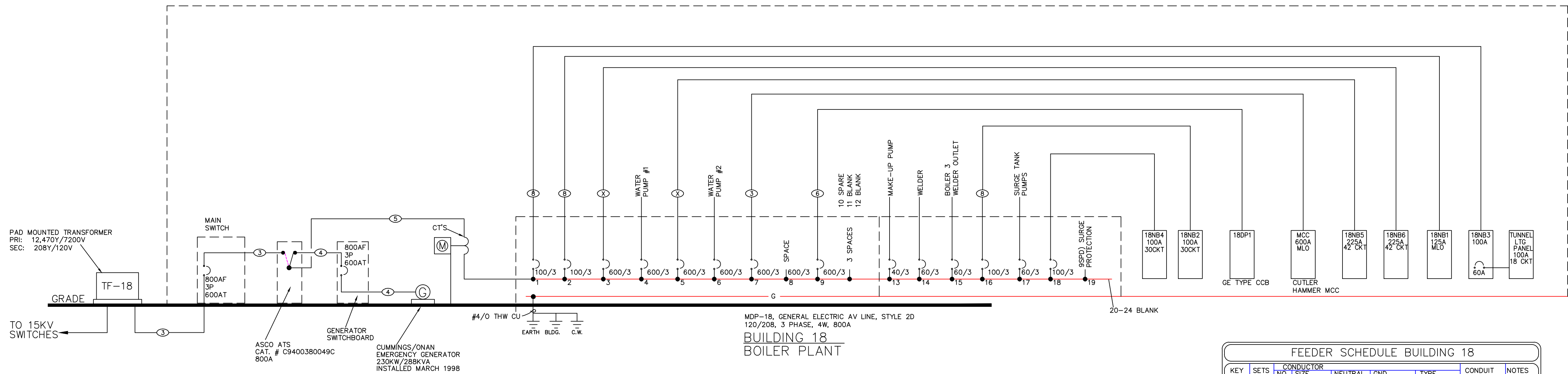
Drawing Title	Project Title	Date
HOT SPRINGS DOM COMPLEX ONE LINE DIAGRAM	TESTING & CALIBRATING ELECTRICAL SYSTEMS	MAY 2017
Approved: Division Chief	Building Number	Checked
	DOM	Drawn
Approved: Service Director	Location	DS
	HOT SPRINGS, SDUTH DAKOTA	DRAWING NO.
		E-5
		Dwg. 6 OF 18



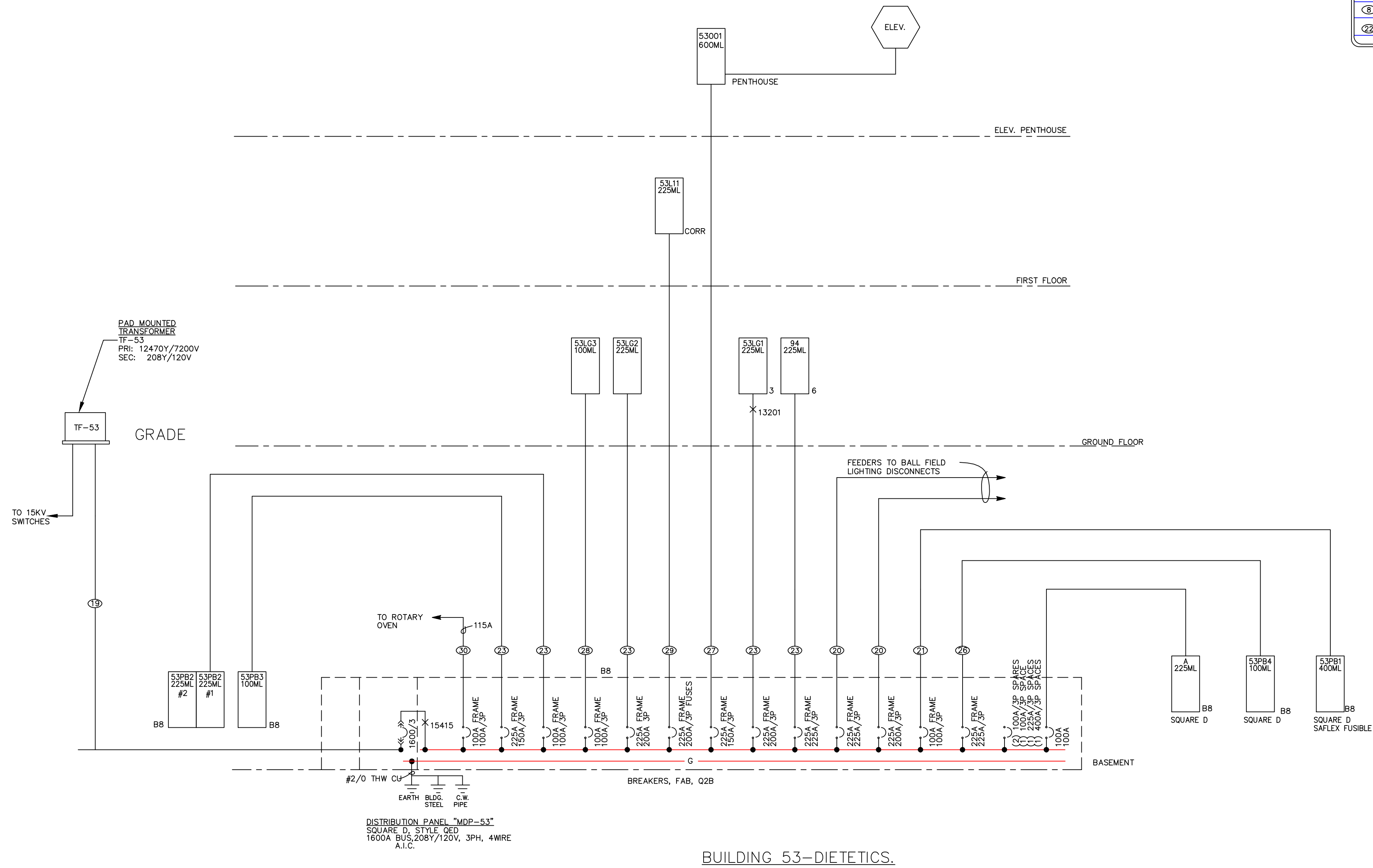
Drawing Title HOT SPRINGS DOM BUS DUCT	Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS		Date MAY 2017	
	Building Number DOM		Project No.	
	Checked DS		DRAWING NO. E-6	
Approved Service Director		Location HOT SPRINGS, SOUTH DAKOTA		Dwg 7 of 18

FEEDER SCHEDULE									
KEY	SETS	CONDUCTOR	NEUTRAL	COND	TYPE	CONDUIT	NOTES		
1	2	3	4/0	4/0	#2 AWG	THW	2-1/2"		
2	1	3	#4AWG	#4AWG	#8 AWG	THW	1-1/4"		
3	1	3	#1AWG	#1AWG	#5AWG	THW	2"		
4	1	3	3/0	3/0	#4	THW	2-1/2"		
5	2	3	500MCM	500MCM	2/0	THW	WIREWAY		
6	1	3	500MCM	500MCM		THW	3-1/2"		
7	2	3	500MCM	500MCM	2/0	THW	3-1/2"		
8	1	3	#2 AWG	#8 AWG		THW	2"		
9	1	3	2/0	2/0	#4 AWG		1 1/4"		
10	1	3	#2AWG	#2AWG		USE	2"		
11	1	3	#2AWG	#2AWG		USE	2-1/2"		
12	1	3	#2AWG	#2AWG		TW	2"		
13	1	3	#8AWG		#4AWG	THW	1-1/2"		
14	1	3	#4AWG	#4AWG		THW	2"		
15	1	3	#2AWG	#2AWG		TW	1-1/2"		
16	1	3	1/0		#4		1 1/2"		
17	1	3	#1AWG	#1AWG	#8AWG	THW	1-1/2"		
18	1	3	350MCM	350MCM		THW	3-1/2"		
19	2	3	500MCM	500MCM		XHHW	3"		
20	1	3	4/0			THW	2"		
21	1	3	4/0			RH	2-1/2"		
22	2	3	250MCM			RH	3"		
23	1	3	3/0			RH	2"		
24	1	3	4/0	4/0		XHHW			
25	1	3	1/0	1/0			2"		
26	1	3	#2 AWG	#2 AWG	#8 AWG	THW	2"		
27	1	3	500MCM	500MCM	#3 AWG	XHHW	3-1/2"		
28	2	3	500MCM	500MCM	1/0	XHHW	3-1/2"		
29	1	3	500MCM			RHW	3"		
30	2	3	350MCM	350MCM		THW	3"		
31	4	3	500MCM	500MCM		XHHW	3"		1-3" MT
32	4	3	500MCM	500MCM	4/0	XHHW	3-1/2"		
33	1	3	#2 AWG	#2 AWG		TW	1-1/4"		
34	1	3	4/0			THHN	2-1/2"		
35	1	3	4/0	4/0		THW	3"		
36	1	3	250MCM	250MCM		THW	2 1/2"		
37	1	3	1/0	1/0	#8 AWG	THW	2"		
38	1	3	500MCM	500MCM		XHHW	3"		
39	1	3	400MCM	400MCM		RH	3"		
40	1	3	#3 AWG		#8 AWG	THW	2"		
41	1	3	350MCM			THW	2-1/2"		
42	1	3	1/0			THW/TW	2"		
43	1	3	#3 AWG	#2 AWG	#6 AWG	TW			
44	1	3	#6 AWG			TW			
45	1	3	1/0	#8		THW/TW	2"		
46	1	3	3/0			THW	2"		
47	1	3	2/0	2/0		TW	2"		
48	1	3	4/0	4/0		TW	3"		
49	1	3	4/0	4/0		THW	2"		
50	1	2	350MCM	#6 AWG	#6 AWG	THW	2"		
51	1	3	4/0	4/0	#4	TW	2"		
52	1	3	#4 AWG			TW	2"		
53	1	3	4/0	4/0	#4	THW	2-1/2"		
54	1	3	4/0	4/0	125	TW	2-1/2"		
55	1	3	3/0	3/0	#6 AWG	XHHW/THW	2"		
56	1	3	250	250	#4 AWG		2 1/2"		
57	1	3	250	250			2"		
58	1	3	3/0	4/0		THW	3"		
59	1	3	4/0	4/0	#4	XHHW	2 1/2"		
60	1	3	1	1	#8	THHN	1 1/2"		
61	1	3	4		#8	THHN	1 1/2"		



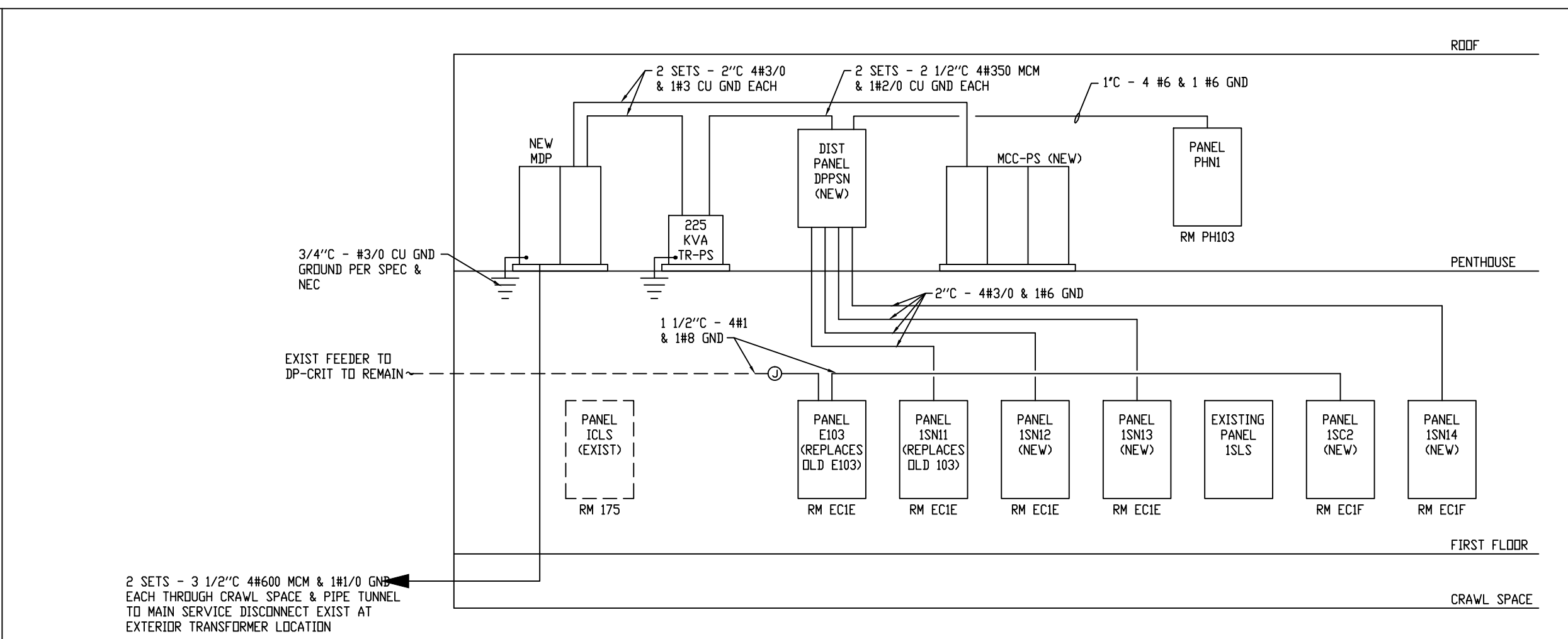
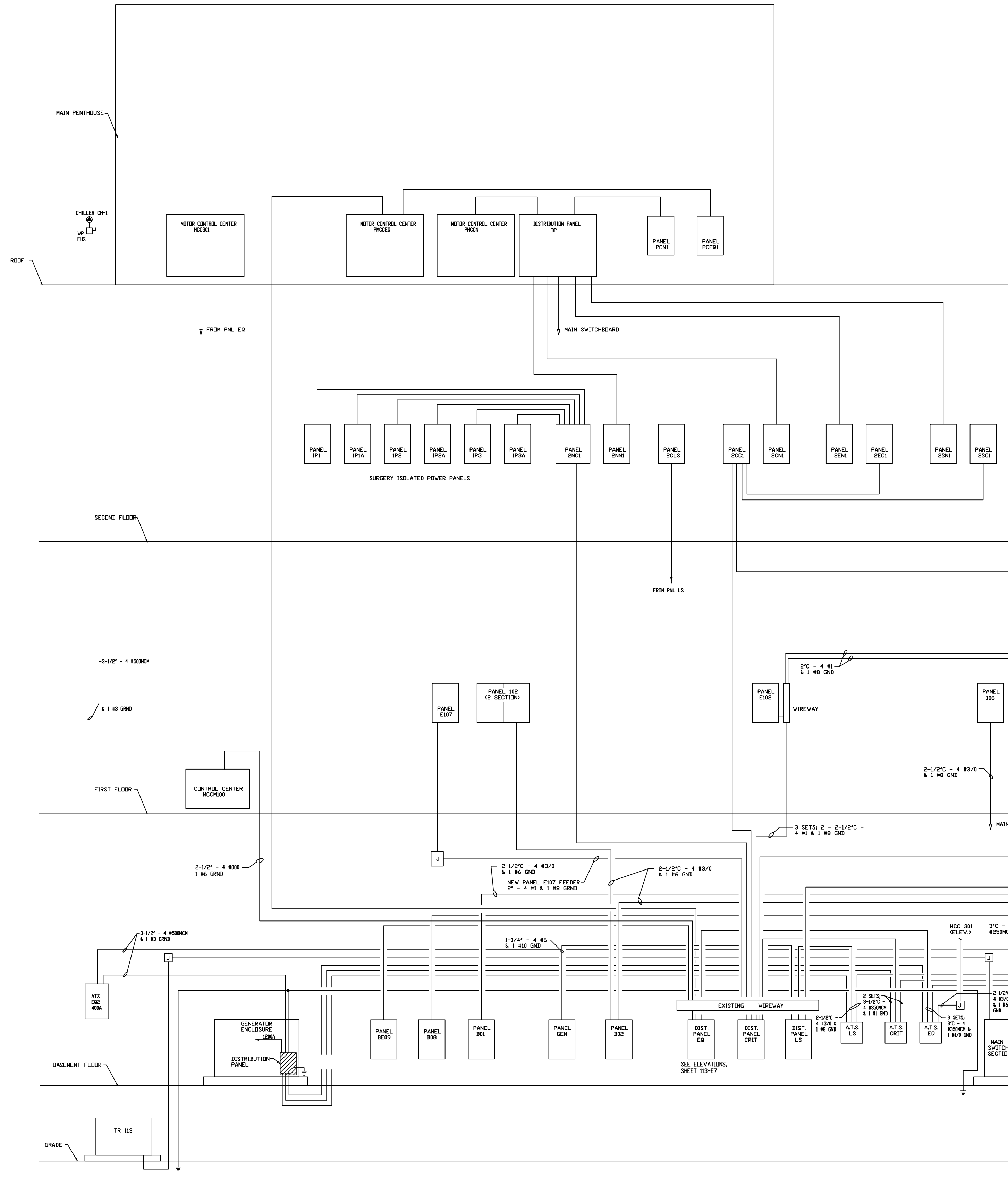


FEEDER SCHEDULE BUILDING 18							
KEY	SETS	CONDUCTOR NO.	SIZE	NEUTRAL	GND	TYPE	CONDUIT
①	2	3	500MCM	500MCM	2/0	XHHW	3-1/2"
④	2	3	500MCM	500MCM	2/0	THW	4"
⑤	2	3	500MCM	500MCM	2/0	THW	WIREWAY
⑥	1	3	500MCM	500MCM		THW	3-1/2"
⑧	1	3	#2 AWG	#2 AWG		THW	2"
②②	2	3	250MCM			RH	3"

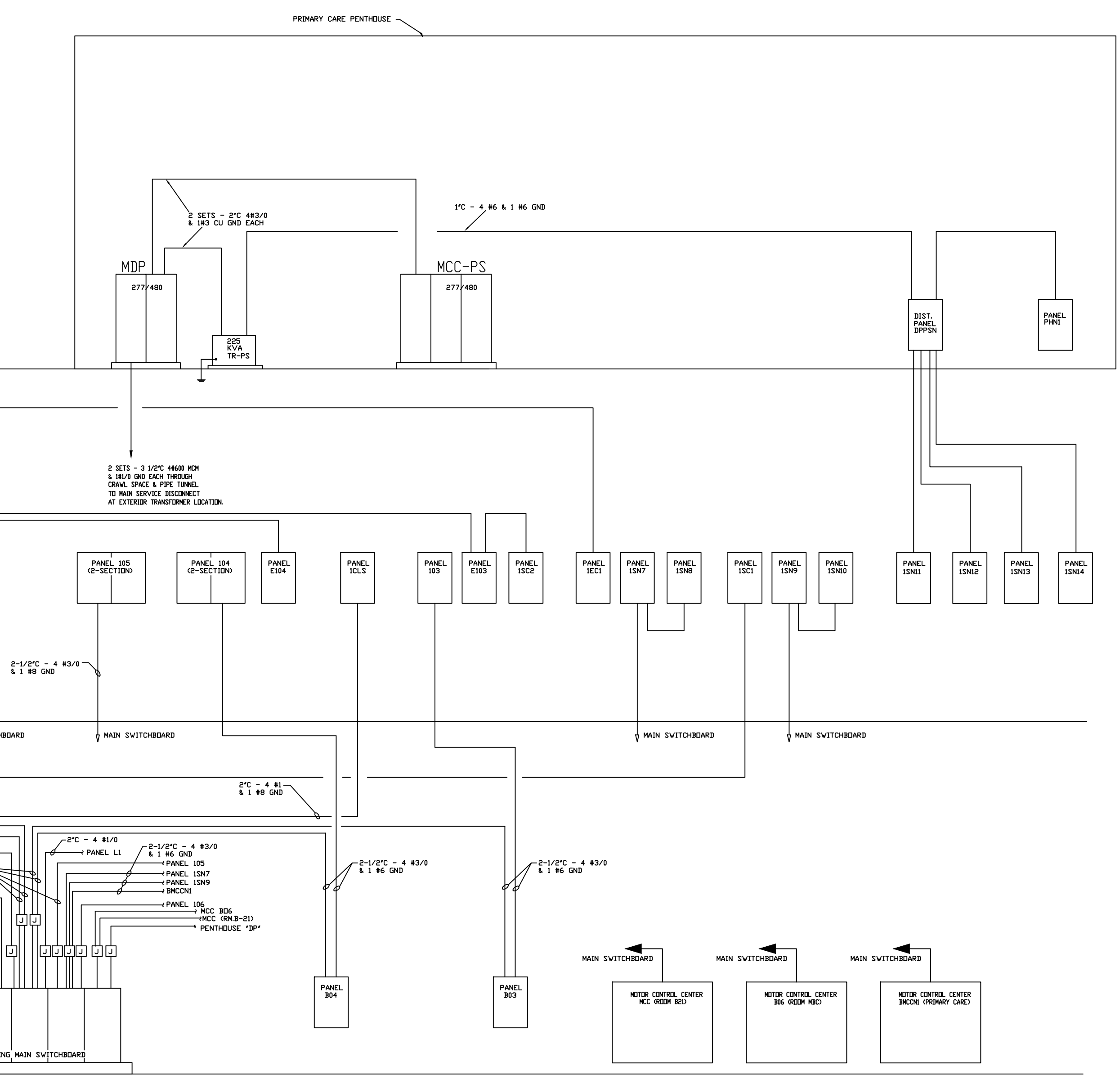


FEEDER SCHEDULE BUILDING 53							
KEY	SETS	CONDUCTOR NO.	SIZE	NEUTRAL	GND	TYPE	CONDUIT
①	1	3	500MCM	500MCM		XHHW	
②	1	3	250MCM		#2 AWG		3"
③	2	3	500MCM	500MCM	2/0	XHHW	3-1/2"
④	2	3	500MCM	500MCM	2/0	THW	4"
⑤	2	3	500MCM	500MCM	2/0	THW	WIREWAY
⑥	1	3	500MCM	500MCM		THW	3-1/2"
⑦	2	3	500MCM	500MCM	2/0	THW	3-1/2"
⑧	1	3	#2 AWG	#2 AWG		THW	2"
⑨	1	3	4/0	4/0		USE	3"
⑩	1	3	#2AWG	#2AWG		USE	2"
⑪	1	3	#2AWG	#2AWG		USE	2-1/2"
⑫	1	3	#2AWG	#2AWG		TW	2"
⑬	1	3	#4AWG	#4AWG		THW	1-1/2"
⑭	1	3	#4AWG	#4AWG		THW	2"
⑮	1	3	#2AWG	#2AWG		TW	1-1/2"
⑯	1	3	#6AWG			R	1"
⑰	1	3	#1AWG	#1AWG		THW	1-1/2"
⑱	1	3	350MCM	350MCM		THW	3-1/2"
⑲	2	3	500MCM	500MCM		XHHW	3"
⑳	1	3	4/0			THW	2"
㉑	1	3	4/0			RH	2-1/2"
㉒	2	3	250MCM			RH	3"
㉓	1	3	3/0			RH	2"
㉔	1	3	4/0	4/0		XHHW	
㉕	1	3	1/0			RH	2"
㉖	1	2	#2 AWG	#2 AWG	#8 AWG	THW	2"
㉗	1	3	250MCM	250MCM		RHH	3"
㉘	1	3	#1 AWG	#1 AWG			2"
㉙	1	3	3/0			THHN	2"
㉚	1	3	#2			THW	1 1/4"

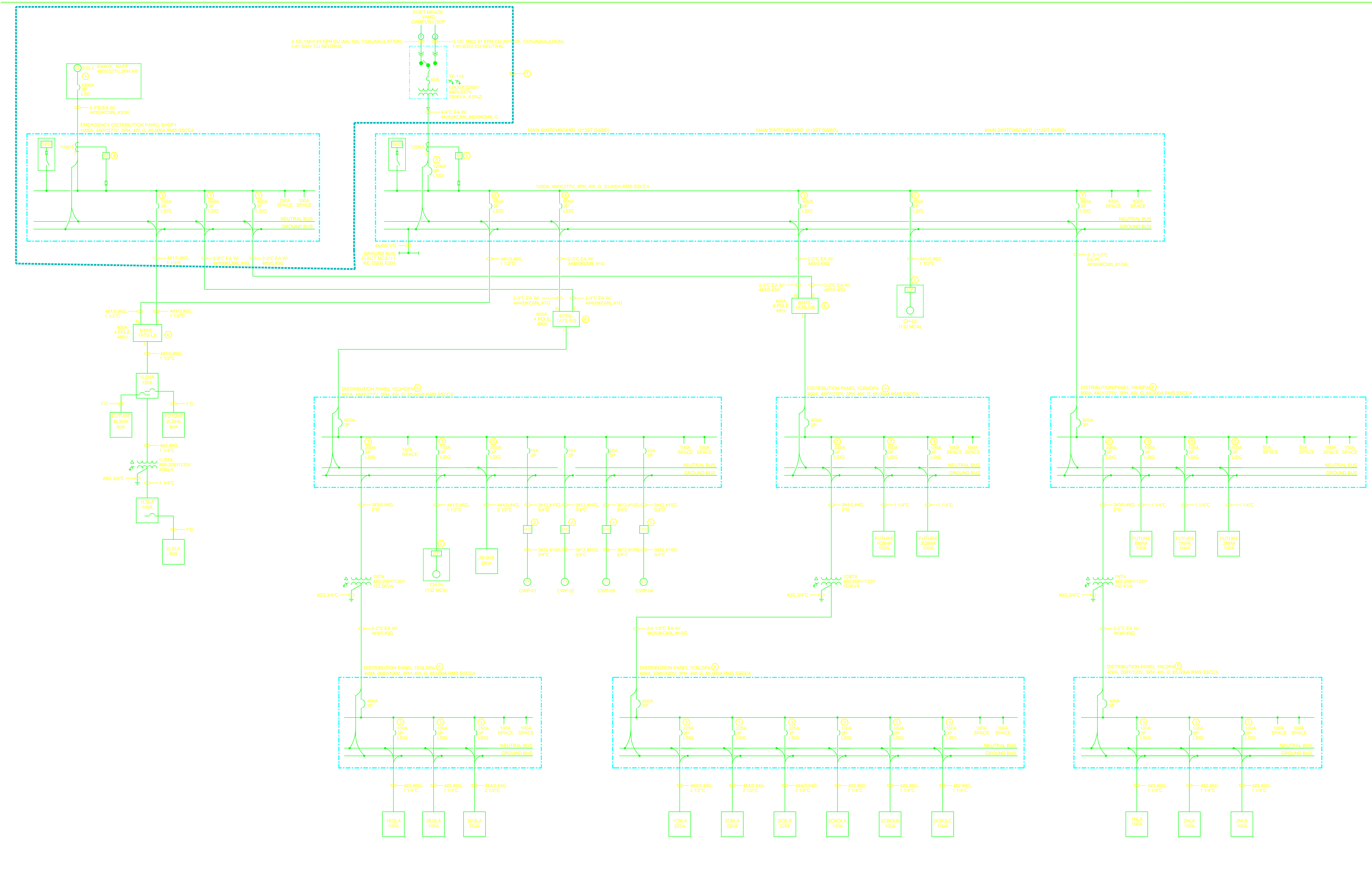
Drawing Title	Project Title	Date
HOT SPRINGS BUILDINGS 18 & 53 OME-LINE DIAGRAM	TESTING & CALIBRATING ELECTRICAL SYSTEMS	MAY 2017
Approved Division Chief	Building Number	Checked
	18, 53	DS
Approved Service Director	Location	DRAWING NO.
	HOT SPRINGS, SOUTH DAKOTA	E-9
		Dwg10 OF18



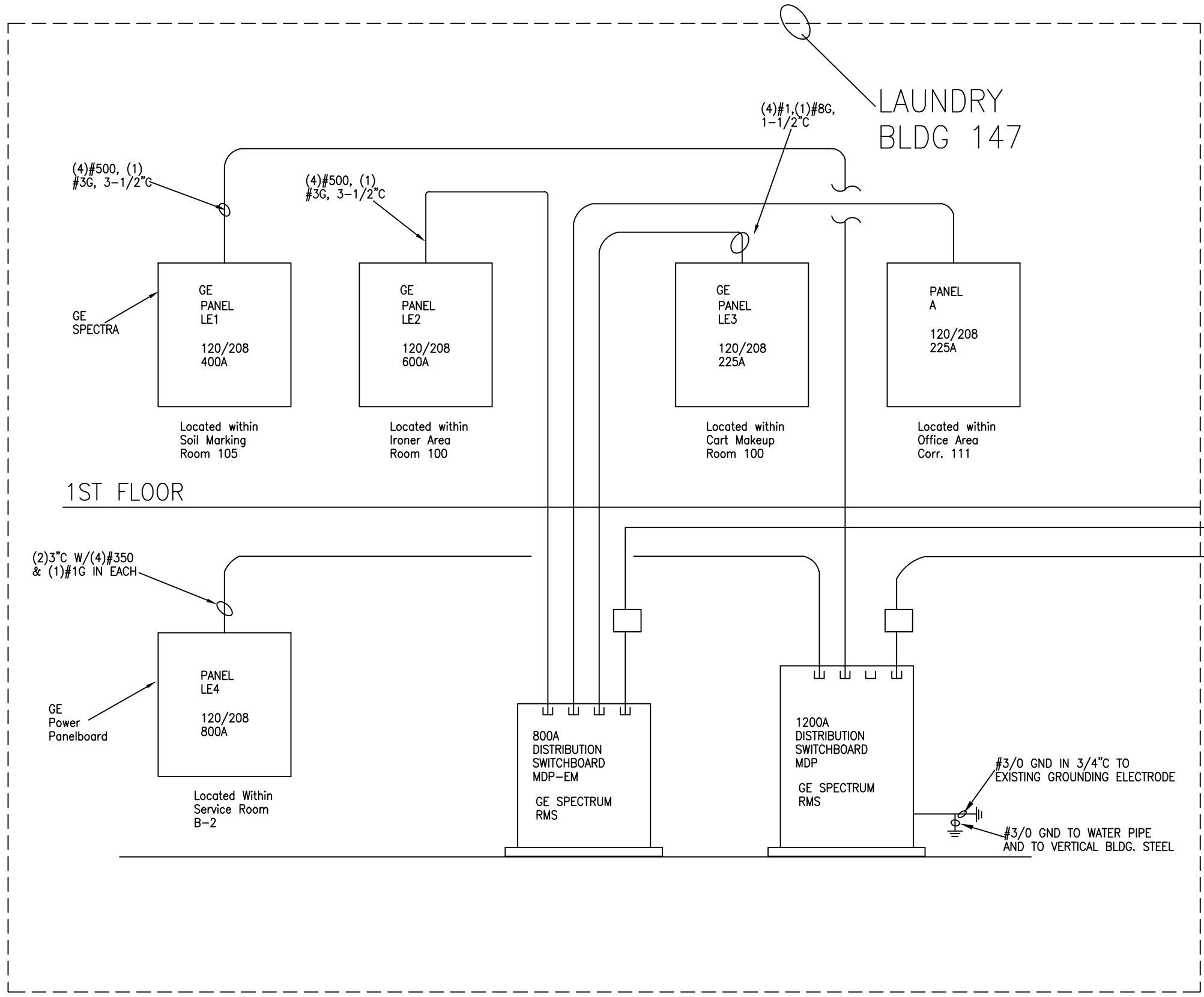
CLINIC ADDITION DISTRIBUTION RISER
NO SCALE



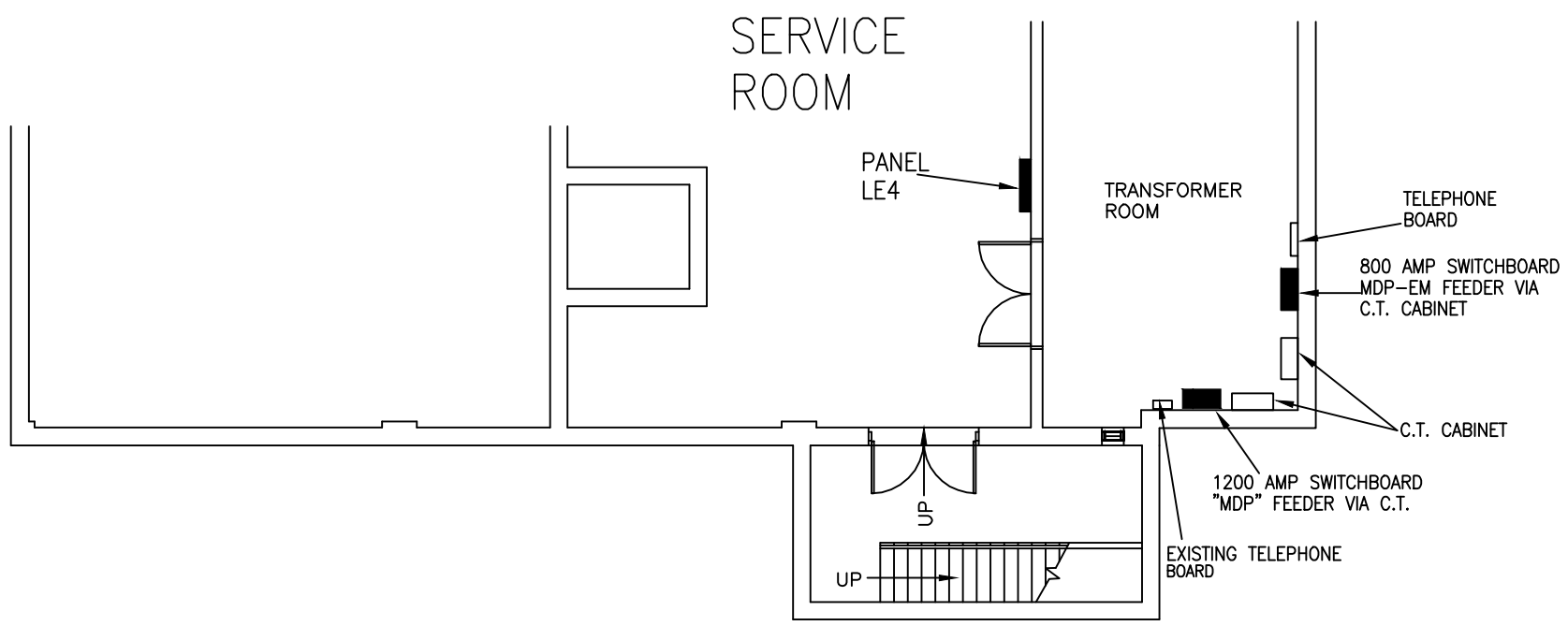
Drawing Title FORT MEADE BUILDING 113 ELECTRICAL SYSTEM RISER DIAGRAM	Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS			Date MAY 2017
	Approved: Division Chief	Building Number 113	Checked JW	Drawn NH
	Approved: Service Director	Location HOT SPRINGS, SOUTH DAKOTA		Drawing No. E-11



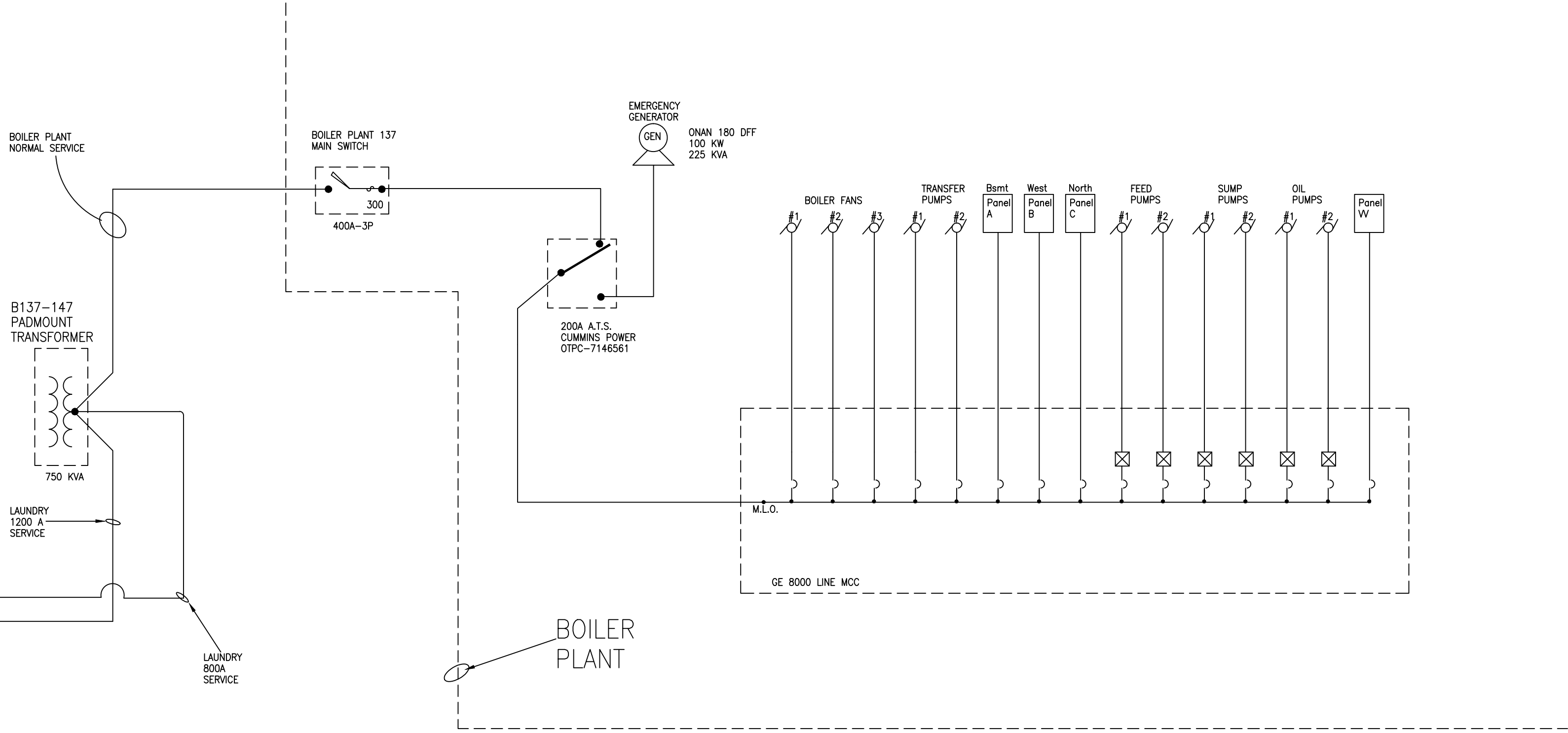
Drawing Title	Project Title	Date
FORT MEADE BUILDING 113 SURGERY ADDITION	TESTING & CALIBRATING ELECTRICAL SYSTEMS	May 2017
Approved: Division Chief	Building Number	Project No.
Approved: Service Director	Checked	
	Drawn	DRAWING NO.
	Location	E-12
		Dwg 13 of 18



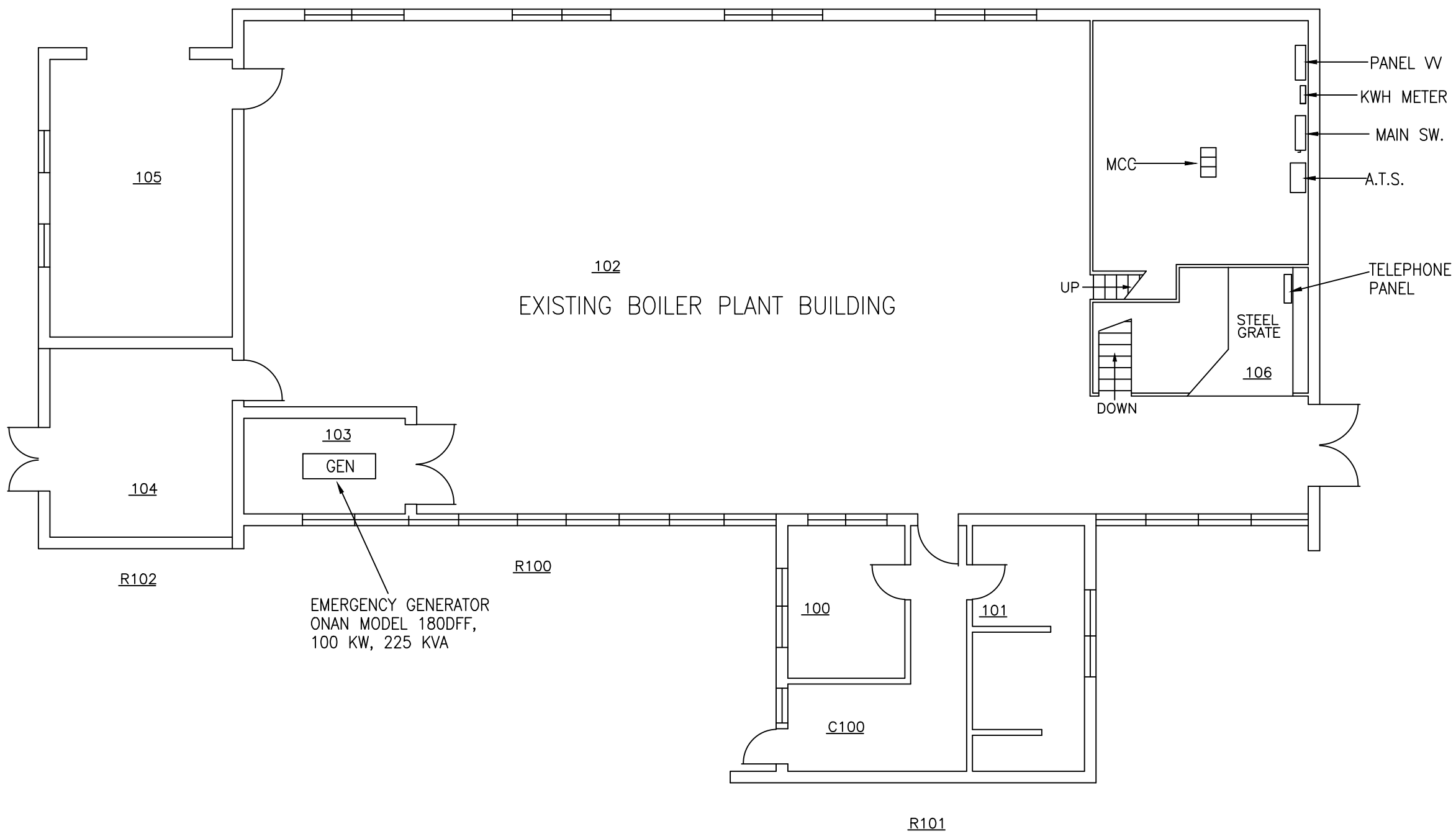
LAUNDRY BUILDING 147
ELECTRICAL RISER DIAGRAM



LAUNDRY BUILDING 147
BASEMENT FLOOR PLAN
ELECTRICAL RISER DIAGRAM

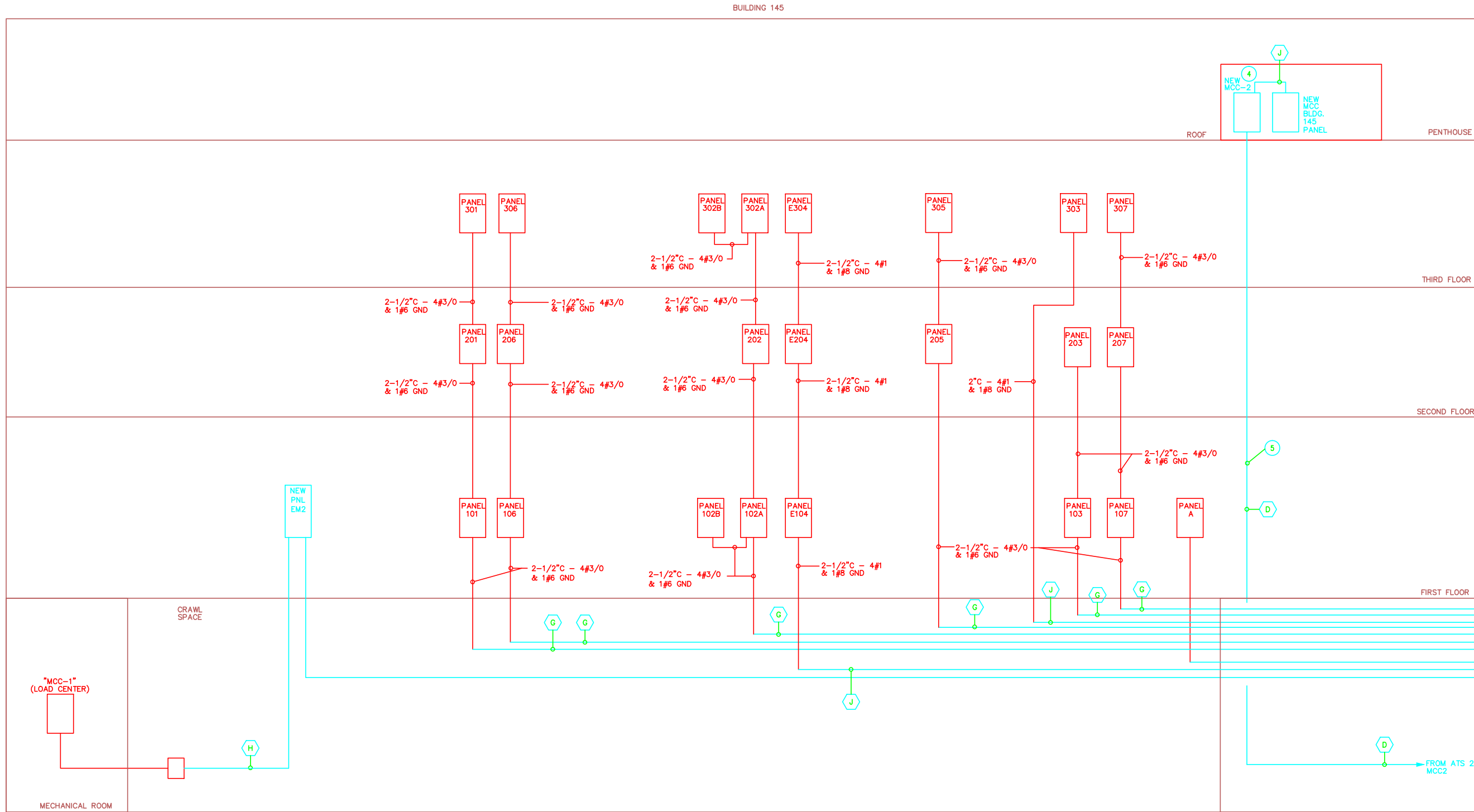


BOILER PLANT BLDG. 137 ONE LINE

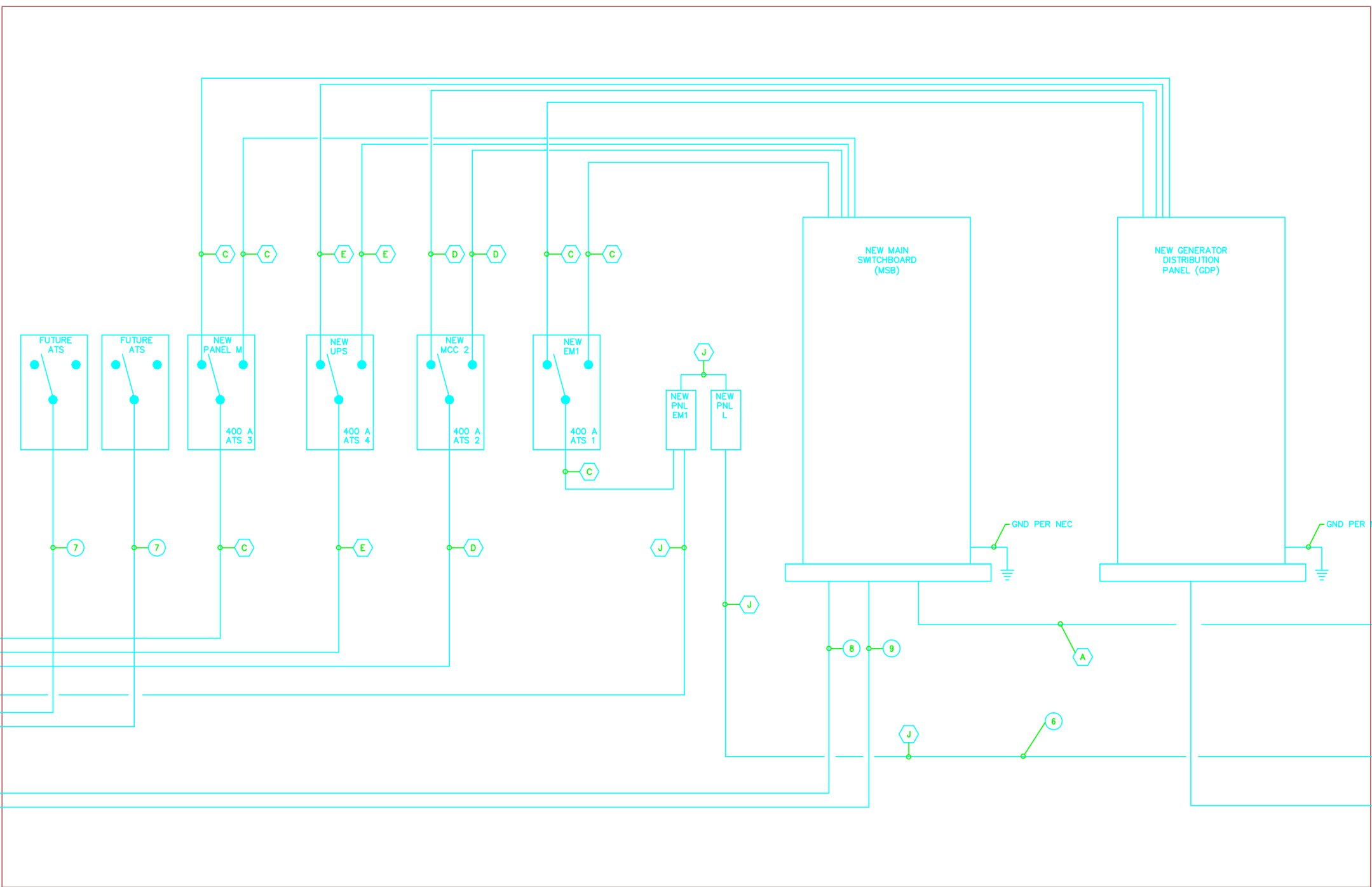
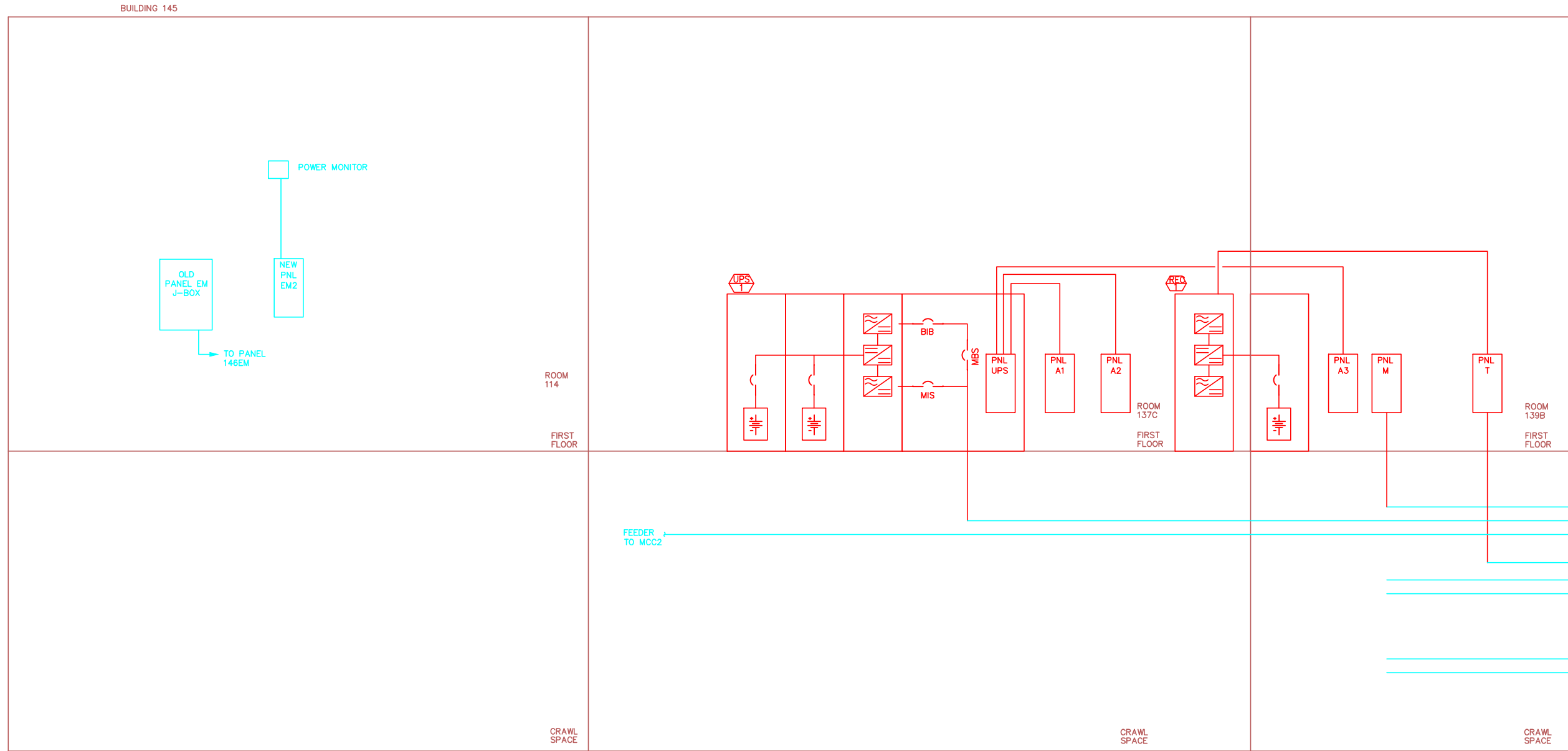


FIRST FLOOR BUILDING #137 - BOILER PLANT

Drawing Title FORT MEADE BUILDING 137 & 147 ELECTRICAL ONE-LINE	Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS			Date May 2017
	Project No.			
Approved: Division Chief	Building Number 137, 147	Checked JW	Drawn DS	DRAWING NO. E-13
Approved: Service Director	Location HOT SPRINGS, SOUTH DAKOTA			Dwg:14.0118



FEEDER MARK	SETS	COPPER		
		CONDUCTORS W/GROUND	CONDUIT SIZE	NOMINAL AMPS
A	5	4-400MCM	3-1/2"	1800
B	2	4-500MCM & 1-#10 GND	3-1/2"	800
C	2	4-#3/0 & 1-#5 GND	2-1/2"	400
D	1	4-#500MCM & 1-#5 GND	4"	400
E	1	4-250MCM & 1-#4 GND	3"	250
F	1	4-#4/0 & 1-#4 GND	2-1/2"	225
G	1	4-#3/0 & 1-#6 GND	2"	200
H	1	4-#1/0 & 1-#6 GND	2"	150
J	1	4-#2 & 1-#6 GND	1-1/2"	100
K	1	3-#2 & 1-#6 GND	1-1/2"	100



Drawing Title
FORT MEADE BUILDING 145
ONE-LINE DIAGRAM

Approved: Division Chief

Approved: Service Director

Project Title
TESTING & CALIBRATING
ELECTRICAL SYSTEMS

Building Number

Location
HOT SPRINGS, SOUTH DAKOTA

Checked

Drawn
DS

Date
May 2017

Project No.

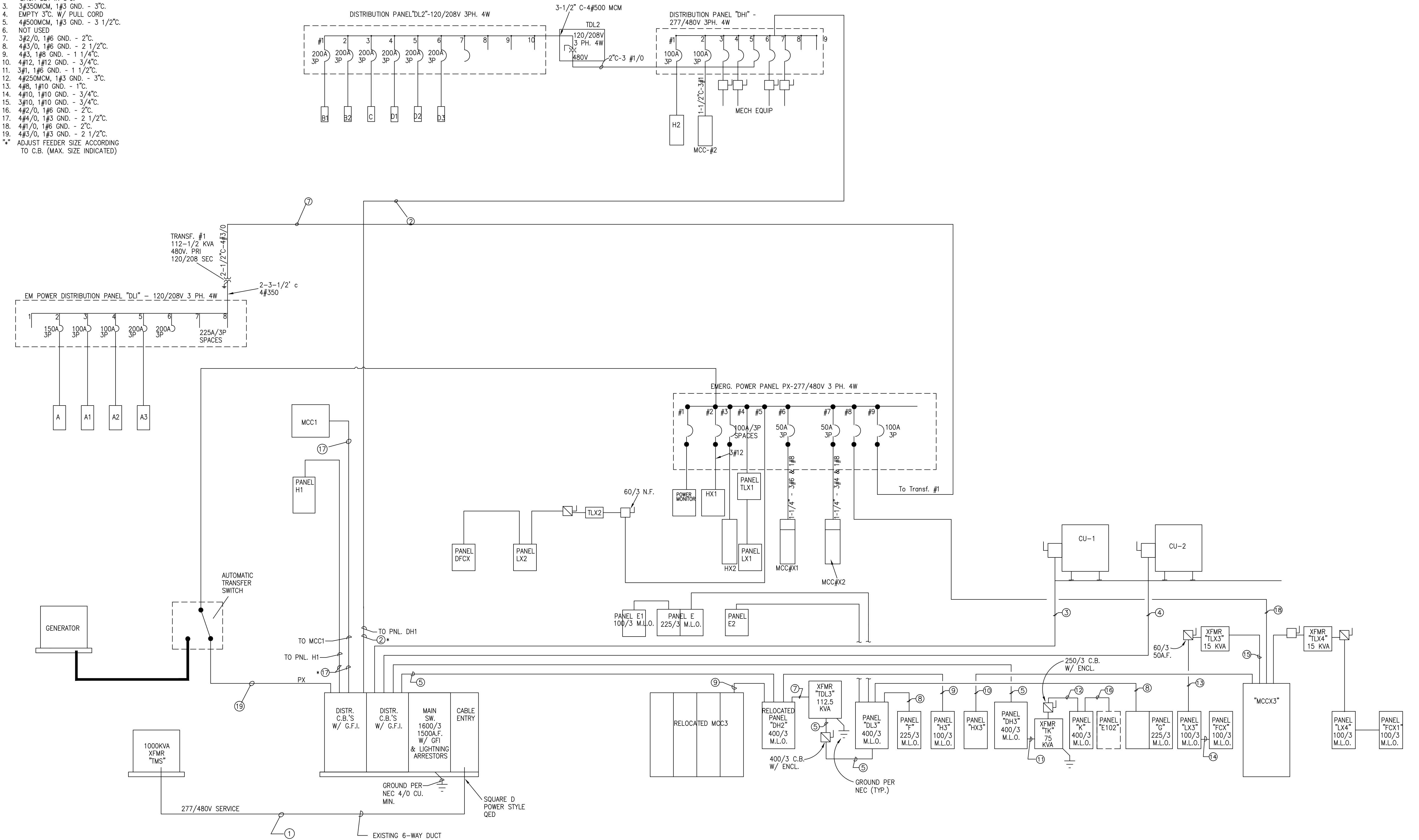
DRAWING NO.

E-14

Drawn
15 of 18

FEEDER SCHEDULE:

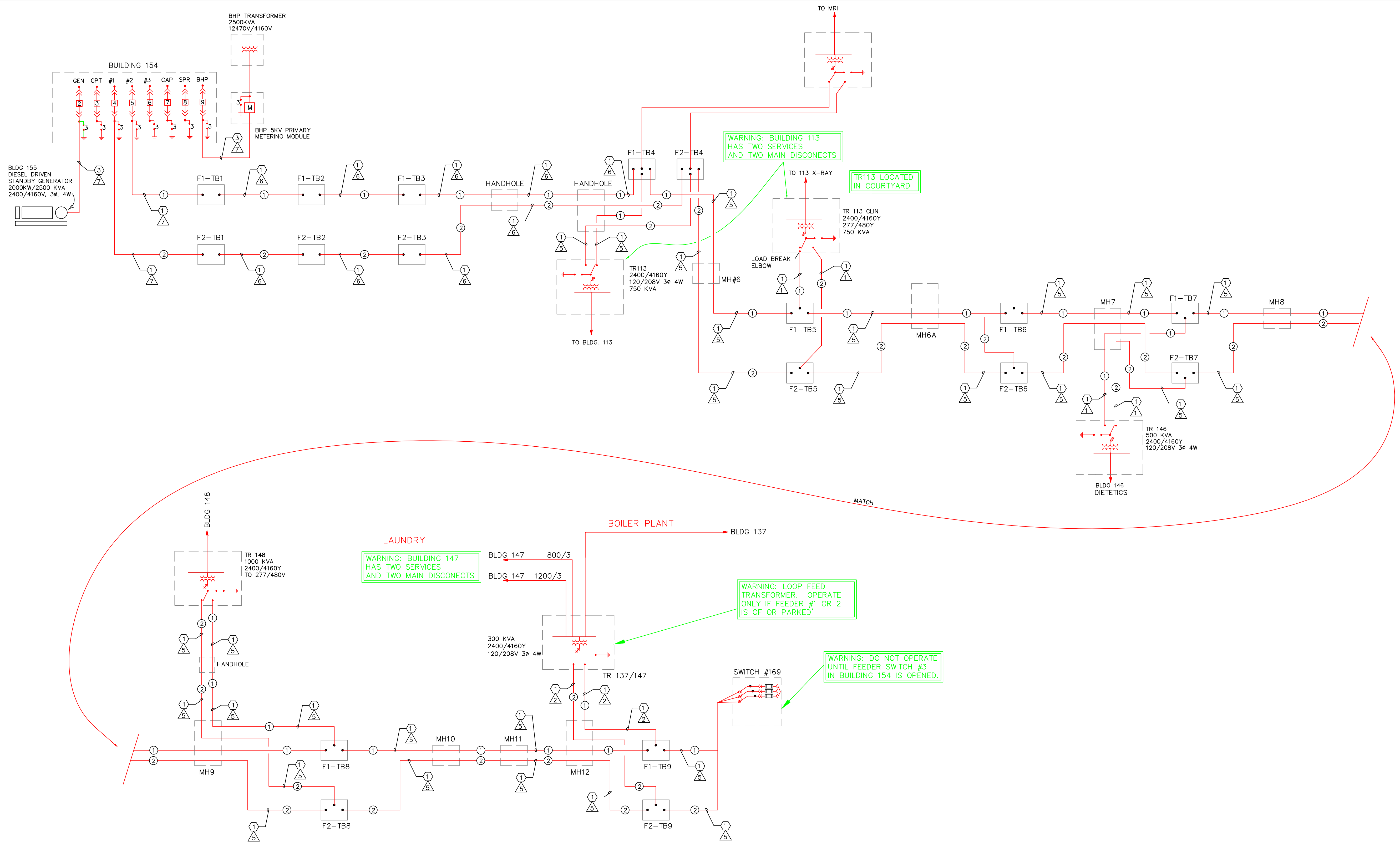
- 5 SETS - 4#400MCM, 1#4/0 GND.
IN EXT'G 4" C. @ 6-WAY DUCT
- 2 SETS - 4#350MCM, 1#1 GND.
EACH SET IN 3" C.
- 3#250MCM, 1#3 GND. - 3" C.
- EMPTY 3" C. W/ PULL CORD
- 4#600MCM, 1#3 GND. - 3 1/2" C.
- NOT USED
- 3#2/0, 1#6 GND. - 2" C.
- 4#3/0, 1#6 GND. - 2 1/2" C.
- 4#3, 1#8 GND. - 1 1/4" C.
- 4#12, 1#12 GND. - 3/4" C.
- 3#1, 1#6 GND. - 1 1/2" C.
- 4#250MCM, 1#3 GND. - 3" C.
- 4#8, 1#10 GND. - 1" C.
- 4#10, 1#10 GND. - 3/4" C.
- 3#10, 1#10 GND. - 3/4" C.
- 4#2/0, 1#6 GND. - 2" C.
- 4#4/0, 1#3 GND. - 2 1/2" C.
- 4#1/0, 1#6 GND. - 2" C.
- 4#3/0, 1#3 GND. - 2 1/2" C.
- ** ADJUST FEEDER SIZE ACCORDING
TO C.B. (MAX. SIZE INDICATED)



ELECTRICAL RISER DIAGRAM

NO SCALE
BLDG. 148-NHCU

Drawing Title FORT MEADE BUILDING 148 ELECTRICAL ONE-LINE DIAGRAM	Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS			Date MAY 2017
				Project No.
Approved: Division Chief	Building Number 148	Checked JW	Drawn NH	DRAWING NO. E-15
Approved: Service Director	Location HOT SPRINGS, SOUTH DAKOTA			Dwg. 6 of 18

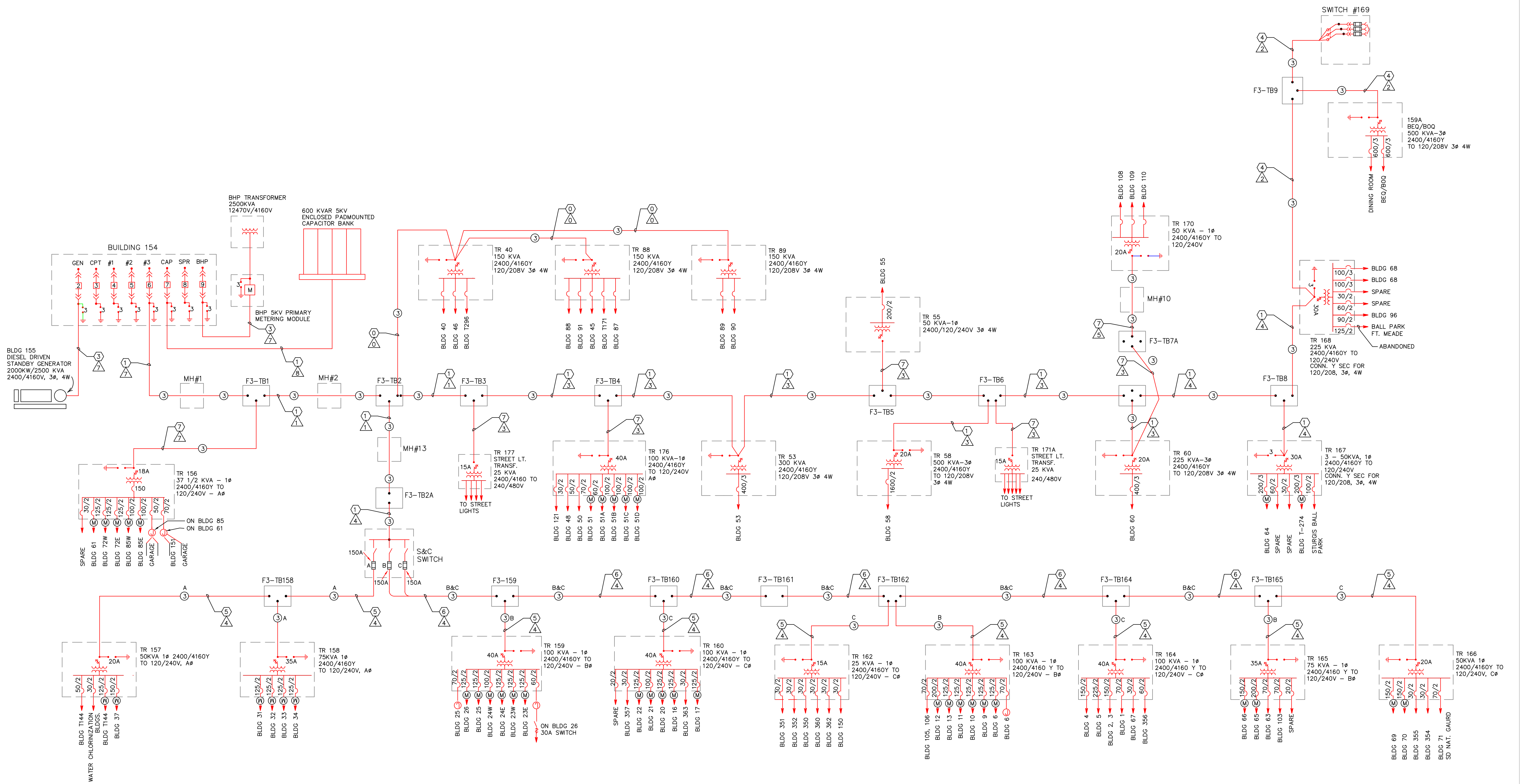


WIRE TYPE AND SIZE		FEEDER LEGEND		YEAR OF CABLE INSTALLATION
①	3 1/C #2/0 5KV CU & 1-#2/0 600V CU NEUTRAL	①	FEEDER #1	
②	3 1/C #2/0 15KV CU & 1-#2/0 600V CU NEUTRAL	②	FEEDER #2	1987
③	3 1/C #1/0 15KV ALUM & 1-#2/0 600V CU NEUTRAL	③	FEEDER #3	2000
④	1-#1/C 500 MCM 15KV CU & 1-#4/0 600V CU NEUTRAL	③A	FEEDER #3 Aø	2003
⑤	3 1/C #2 15KV CU & 1-#2 600V CU NEUTRAL	③B	FEEDER #3 Bø	2006
⑥	1 1/C #1/0 15KV ALUM & 1-#2/0 600V CU NEUTRAL	③C	FEEDER #3 Cø	2007
⑦	2 1/C #1/0 15KV ALUM & 1-#2/0 600V CU NEUTRAL	③B&C	FEEDER #3 B&Cø	2008
	1 1/C #2/0 15KV CU & 1-#2/0 600V CU NEUTRAL			2009
				2010

FEEDERS #1 & #2 ONE-LINE DIAGRAM

Drawing Title PRIMARY DISTRIBUTION RISER DIAGRAM FEEDER #1 & #2		Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS		Date MAY 2017
Approved: Division Chief		Building Number	Checked	Project No.
Approved: Service Director		Location FT. MEADE, S.D.	Drawn	DRAWING NO. E-16 Dwg. 17 of 18

Veterans
Administration



FEEDER #3 ONE-LINE DIAGRAM

WIRE TYPE AND SIZE		FEEDER LEGEND		YEAR OF CABLE INSTALLATION	
①	3 1/C #2/0 5KV CU & 1-#2/0 600V CU NEUTRAL	①	FEEDER #1	①	1987
②	3 1/C #2/0 15KV CU & 1-#2/0 600V CU NEUTRAL	②	FEEDER #2	②	2000
③	3 1/C #1/0 15KV ALUM & 1-#2/0 600V CU NEUTRAL	③	FEEDER #3	③	2003
④	1-#1/C 500 MCM 15KV CU & 1-#4/0 600V CU NEUTRAL	④A	FEEDER #3 Aø	④	2006
⑤	3 1/C #2 15KV CU & 1-#2 600V CU NEUTRAL	④B	FEEDER #3 Bø	⑤	2007
⑥	1 1/C #1/0 15KV ALUM & 1-#2/0 600V CU NEUTRAL	④C	FEEDER #3 Cø	⑥	2008
⑦	2 1/C #1/0 15KV ALUM & 1-#2/0 600V CU NEUTRAL	④B&C	FEEDER #3 B&Cø	⑦	2010
⑧	1 1/C #2/0 15KV CU & 1-#2/0 600V CU NEUTRAL				

Drawing Title PRIMARY DISTRIBUTION RISER DIAGRAM FEEDER #3	Project Title TESTING & CALIBRATING ELECTRICAL SYSTEMS	Date MAY 2017
Approved: Division Chief	Building Number	Checked
Approved: Service Director	Location FT. MEADE, S.D.	Drawn
		DRAWING NO. E-17
		Dwg 18 of 18

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