PRESSURES FOR: V.A. OUTPATIENT CLINIC — DATE: 08/03/98

FEEDER FEEDING	CIRCUIT BREAKER AMP SIZE	VOLTS	PHASE	FEEDER AMPS	FEEDER VOLT DROP %	PARALLEL RUNS	PHASE WIRE	NEUTRAL WIRE	FEEDER GROUND WIRE	GROUND CONDUIT	COPPER / ALUMINUM	CONDUIT SIZE
AREA "A"												
PANEL CLA	225	208	3	235	0.24	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
PANEL NLA1	225	208	3	235	0.24	1	#4/0	#4/0	#4	N/A	COPPER	3"
PANEL NLAB	125	208	3	105	0.42	1	#2	#2	#6	N/A	COPPER	1-1/4"
PANEL NHA	225	480	3	235	0.62	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
PANEL NHA1	400	480	3	360	0.67	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHA2	400	480	3	360	0.67	1	#500	#500	#2	N/A	COPPER	3-1/2"
SAFE NB	150	480	3	130	0.18	1	#2	N/A	#6	N/A	COPPER	2"
XFMR LS5	125	480	3	130	0.14	1	#2	N/A	#6	N/A	COPPER	1-1/4"
XFMR N6	100	480	3	100	0.07	1	#3	N/A	#8	N/A	COPPER	1"
AREA "B"												
PANEL CLB	225	208	3	235	0.24	1	#4/0	#4/0	#4	#4	COPPER	3-1/2"
PANEL NLB	225	208	3	235	0.28	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
PANEL LSB	60	208	3	65	0.46	1	#6	#6	#10	N/A	COPPER	1"
PANEL NHB	225	480	3	235	0.62	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
XFMR LS2	125	480	3	130	0.14	1	#2	N/A	#6	N/A	COPPER	1-1/4"
PANEL NHB	400	480	3	360	0.67	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHB1	400	480	3	360	0.67	1	#500	#500	#2	N/A	COPPER	3-1/2"
XFMR LS3	35	480	3	35	0.09	1	#10	N/A	#10	N/A	COPPER	1/2"
XFMR LS4	125	480	3	130	0.11	1	#2	N/A	#6	N/A	COPPER	1-1/4"
XFMR N5	125	480	3	130	0.14	1	#2	N/A	#6	N/A	COPPER	1-1/4"
PLACE TO CHECK												
PANEL CBDP	400	480	3	420	0.14	1	#500	#500	#2	N/A	COPPER	4"
PANEL LSDP	100	480	3	105	0.28	1	#3	#3	#8	N/A	COPPER	3-1/2"
PANEL EDDP	600	480	3	500	0.19	2	#350	#350	#1	N/A	COPPER	4"
MDP	3000	480	3	4370	0.28	8	#700	#700	N/A	N/A	COPPER	4"
UMDP	1200	480	3	1260	0.19	4	#350	#350	N/A	N/A	COPPER	3-1/2"
ATS-A (NORM.)	400	480	3	360	0.28	1	#500	#500	#2	N/A	COPPER	3-1/2"
ATS-CC (NORM.)	600	480	3	420	0.28	1	#350	#350	#1	N/A	COPPER	3-1/2"
ATS-LS (NORM.)	100	480	3	105	0.28	1	#3	#3	#8	N/A	COPPER	1-1/4"
ATS-A (EMER.)	400	480	3	360	0.28	1	#500	#500	#2	N/A	COPPER	3-1/2"
ATS-CC (EMER.)	600	480	3	420	0.28	1	#350	#350	#1	N/A	COPPER	3-1/2"
ATS-LS (EMER.)	100	480	3	105	0.28	1	#3	#3	#8	N/A	COPPER	1-1/4"

PRESSURES FOR: V.A. OUTPATIENT CLINIC — DATE: 08/07/98

FEEDER FEEDING	CIRCUIT BREAKER AMP SIZE	VOLTS	PHASE	FEEDER AMPS	FEEDER VOLT DROP %	PARALLEL RUNS	PHASE WIRE	NEUTRAL WIRE	FEEDER GROUND WIRE	GROUND CONDUIT	COPPER / ALUMINUM	CONDUIT SIZE
AREA "A"												
PANEL CLA	225	208	3	235	0.42	1	#4	#4	#6	#6	COPPER	3-1/2"
PANEL LLA	60	208	3	65	0.46	1	#6	#6	#10	#10	COPPER	1"
PANEL NLA	125	208	3	105	0.42	1	#2	#2	#6	N/A	COPPER	1-1/4"
PANEL NLA1	225	208	3	235	1.13	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
PANEL LHA	125	480	3	100	0.36	1	#2	#2	#6	N/A	COPPER	1-1/4"
PANEL LLA	30	480	3	30	0.28	1	#8	#8	#10	N/A	COPPER	1-1/4"
PANEL NH	400	480	3	360	0.17	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHB	225	480	3	235	0.62	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
XFMR CR2	50	480	3	50	0.11	1	#6	N/A	#10	N/A	COPPER	3/4"
XFMR LS1	30	480	3	35	0.10	1	#8	N/A	#10	N/A	COPPER	1/2"
XFMR N2	125	480	3	130	0.08	1	#2	N/A	#6	N/A	COPPER	1-1/4"
XFMR N9	40	480	3	35	0.09	1	#8	N/A	#10	N/A	COPPER	3/4"
AREA "B"												
PANEL B1	60	208	1	60	1.68	1	#6	#6	#10	#10	COPPER	3/4"
PANEL B2	50	208	1	50	1.68	1	#6	#6	#10	#10	COPPER	3/4"
PANEL C1	50	480	3	50	0.11	1	#6	#6	#10	#10	COPPER	3/4"
PANEL C2	50	480	3	45	0.07	1	#6	#6	#10	#10	COPPER	3/4"
PANEL TS/DIG	150	480	3	150	0.05	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
PANEL LLC	225	208	3	235	0.24	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
PANEL NLC	60	208	3	65	1.57	1	#6	#6	#10	#10	COPPER	1"
PANEL NLA	150	208	3	150	0.24	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
PANEL NLC	150	208	3	150	0.86	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
PANEL EDLC	225	208	3	235	0.73	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
PANEL EDHC	400	480	3	360	0.67	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHC	400	480	3	360	0.68	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHCA	400	480	3	360	0.68	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHCB	400	480	3	360	0.68	1	#500	#500	#2	N/A	COPPER	3-1/2"
XFMR CR3	150	480	3	150	0.05	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
XFMR LS5	150	480	3	150	0.13	1	#1/0	N/A	#6	N/A	COPPER	1-1/2"
XFMR N6	150	480	3	150	0.13	1	#1/0	N/A	#6	N/A	COPPER	1-1/2"
ATS-A (NORM.)	150	480	3	150	0.13	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
ATS-CC (NORM.)	150	480	3	150	0.13	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
ATS-LS (NORM.)	100	480	3	105	0.19	1	#3	#3	#8	N/A	COPPER	1-1/4"
ATS-A (EMER.)	150	480	3	150	0.13	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
ATS-CC (EMER.)	150	480	3	150	0.13	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
ATS-LS (EMER.)	100	480	3	105	0.19	1	#3	#3	#8	N/A	COPPER	1-1/4"
UMDP	1200	480	3	1260	0.19	4	#350	#350	N/A	N/A	COPPER	3-1/2"
MDP	3000	480	3	4370	0.28	8	#700	#700	N/A	N/A	COPPER	4"
TEST 1	60	480	3	35	1.04	1	#6	#6	#10	N/A	COPPER	1"
CHECK 1-BRF	60	480	3	115	1.13	1	#6	#6	#6	N/A	COPPER	1-1/4"
AREA "B"												
PANEL EDLC	60	208	3	130	1.60	1	#1	#1	#6	N/A	COPPER	1-1/4"
PANEL NLB	225	208	3	235	1.81	1	#4/0	#4/0	#4	N/A	COPPER	3"
PANEL NLB/A	60	208	3	130	1.60	1	#1	#1	#6	N/A	COPPER	1-1/4"
PANEL NLE	150	208	3	170	1.67	1	#1/0	#1/0	#6	N/A	COPPER	1-1/2"
PANEL NHE	400	480	3	360	0.84	1	#500	#500	#2	N/A	COPPER	3-1/2"
PANEL NHE1	225	480	3	235	1.02	1	#4/0	#4/0	#4	N/A	COPPER	3-1/2"
XFMR CR1	50	480	3	45	1.77	1	#6	N/A	#10	N/A	COPPER	3/4"
XFMR N1	125	480	3	130	0.14	1	#2	N/A	#6	N/A	COPPER	1-1/4"
XFMR CR1	150	480	3	150	1.80	1	#1	N/A	#6	N/A	COPPER	1"

GENERAL NOTES:

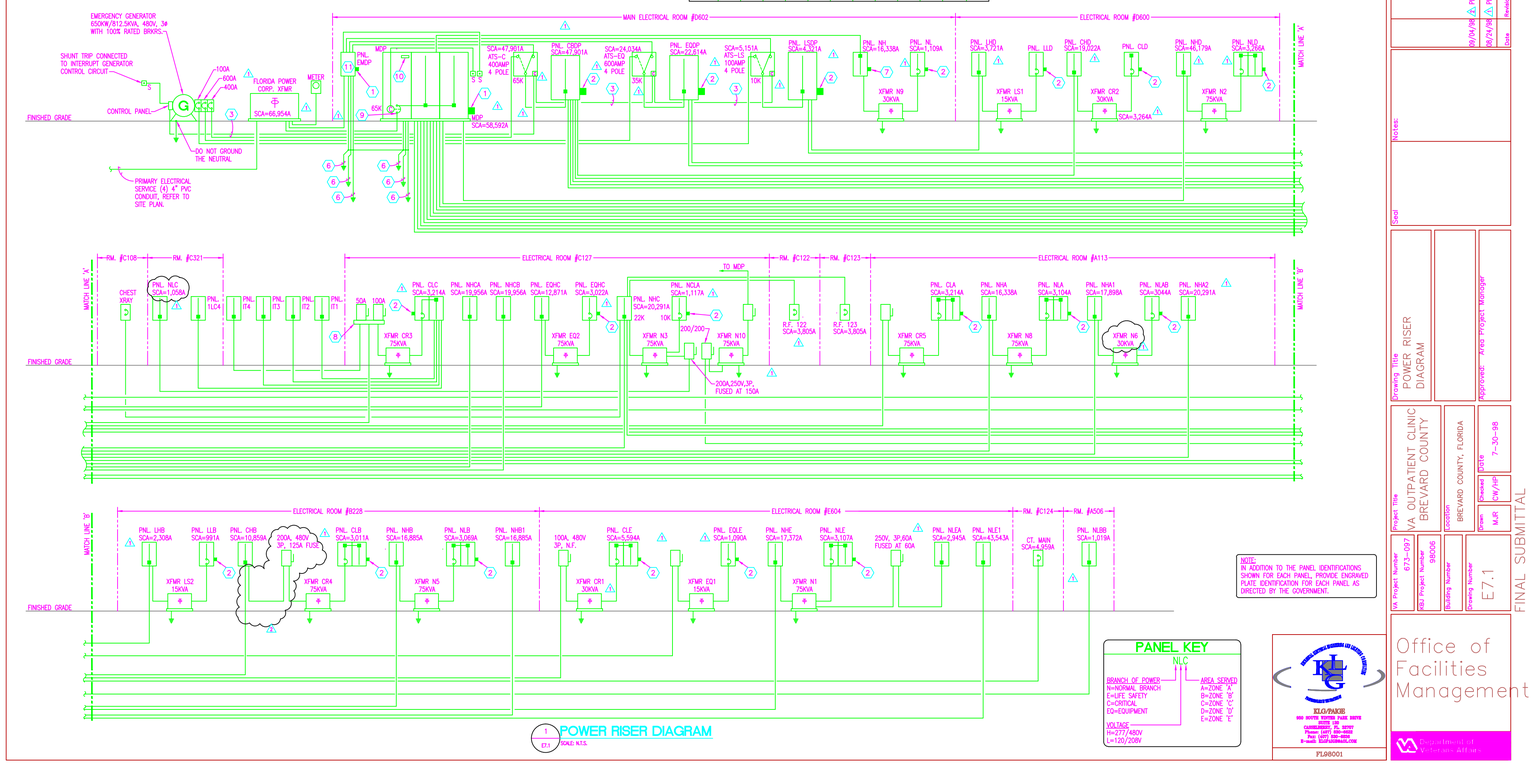
1) REFER TO SHEET E0.1 FOR GENERAL NOTES.

2) REFER TO SPECIFICATIONS.

3) SCA = AVAILABLE SHORT CIRCUIT AMPERES (RMS SYMETRICAL) ⚠

KEY NOTES:

1. PROVIDE PRIMARY SURGE PROTECTION, CURRENT TECHNOLOGY #MP-PLUS 277/480-3GY-DF.
2. PROVIDE SECONDARY SURGE PROTECTION, CURRENT TECHNOLOGY #SF50
3. PROVIDE GENERATOR START CIRCUITS PER GENERATOR MANUFACTURER'S RECOMMENDATION.
4. #3/0 CU. GROUND ELECTRODE TO BUILDING STEEL PER NEC 250.
5. #3/0 CU. GROUND ELECTRODE TO METAL COLD WATER PIPING PER NEC 250.
6. #3/0 CU. GROUND ELECTRODE TO DRIVEN GROUND RODS PER NEC 250.
7. CURRENT TECHNOLOGY SF150-277/480-2GY-DF.
8. PROVIDE NEMA- WIREWAY, SIZE AS REQUIRED. PROVIDE FUSED DISCONNECT (50A & 100A).
9. 4000 AMP BREAKER WITH 3800AMP RATING PLUG.
10. PROVIDE ENGRAVED SIGN "SERVICE #1".
11. PROVIDE ENGRAVED SIGN "SERVICE #2".



NOTE:
IN ADDITION TO THE PANEL IDENTIFICATIONS SHOWN FOR EACH PANEL, PROVIDE ENGRAVED PLATE IDENTIFICATION FOR EACH PANEL AS DIRECTED BY THE GOVERNMENT.

PANEL KEY

NLC

BRANCH OF POWER
N=NORMAL BRANCH
E=LIFE SAFETY
C=CRITICAL
ED=EQUIPMENT

VOLTAGE
H=277/480V
L=120/208V

AREA SERVED
A=ZONE 'A'
B=ZONE 'B'
C=ZONE 'C'
D=ZONE 'D'
E=ZONE 'E'

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No.	Date	Revisions
2	09/04/98	PLAN REVISIONS
1	08/24/98	PLAN REVISIONS

Seal

Notes:

Drawing Title: POWER RISER DIAGRAM

Approved: Area Project Manager

Project Title: VA OUTPATIENT CLINIC
Location: BREVARD COUNTY, FLORIDA

Date	7-30-98
Reviewed	DW/MP
Drawn	MJR

VA Project Number: 673-007
A&E Project Number: 96006
Building Number:
Drawing Number: E7.1

FINAL SUBMITTAL

Office of Facilities Management

Department of Veterans Affairs