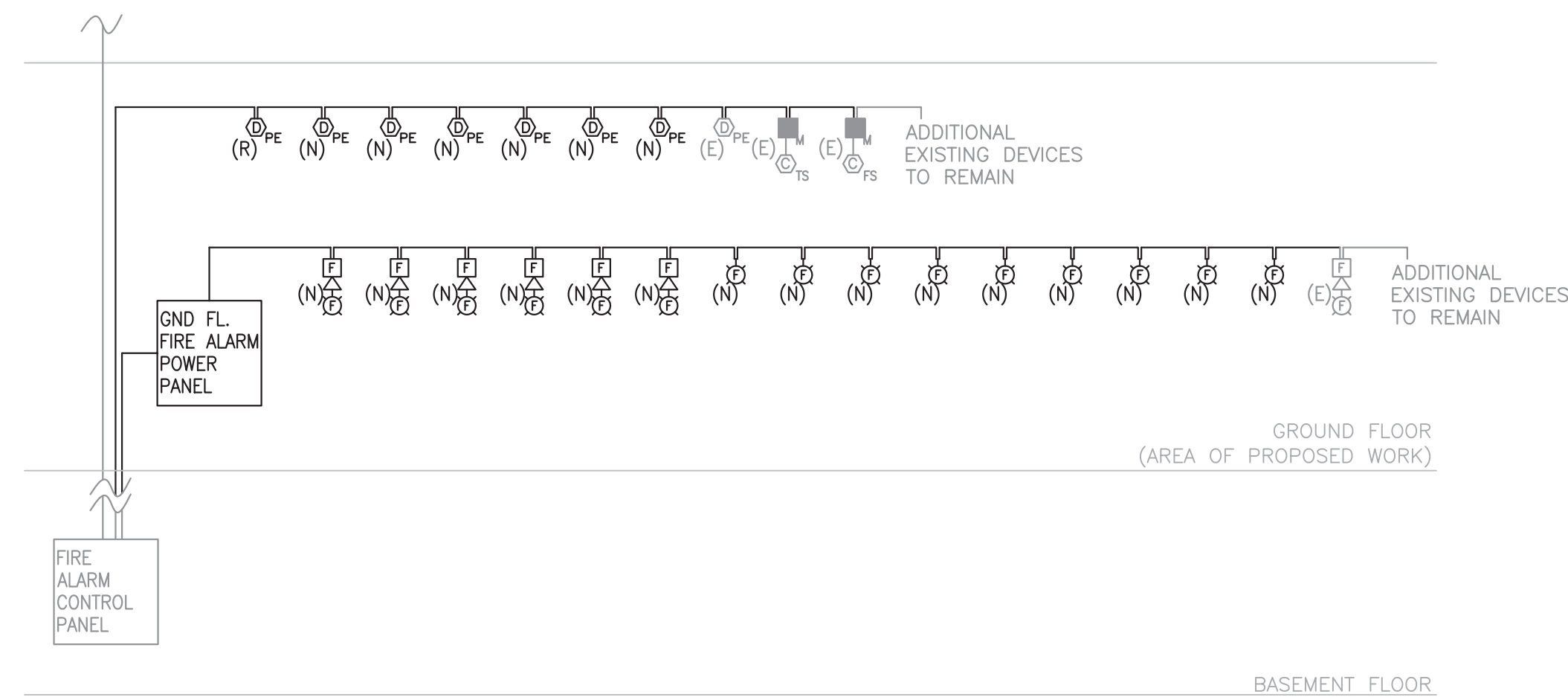


LINE LEGEND:
 ——— EXISTING TO REMAIN
 - - - - - EXISTING TO BE REMOVED
 ——— NEW TO BE PROVIDED

- NOTES:**
- ALL WIRING SHALL BE #12 & #12 GND IN 3/4" C. FOR 20A CKT, UNLESS NOTED OTHERWISE. SEE PANEL SCHEDULES FOR NUMBER OF POLES.
 - ALL CIRCUIT BREAKERS RATED 250A OR MORE SHALL HAVE ELECTRONIC TRIP UNIT WITH FULLY ADJUSTABLE 'LSIG' FUNCTIONS, UNLESS OTHERWISE INDICATED.

N.T.S. **1** PARTIAL SINGLE LINE DIAGRAM
E-3



NOTES:

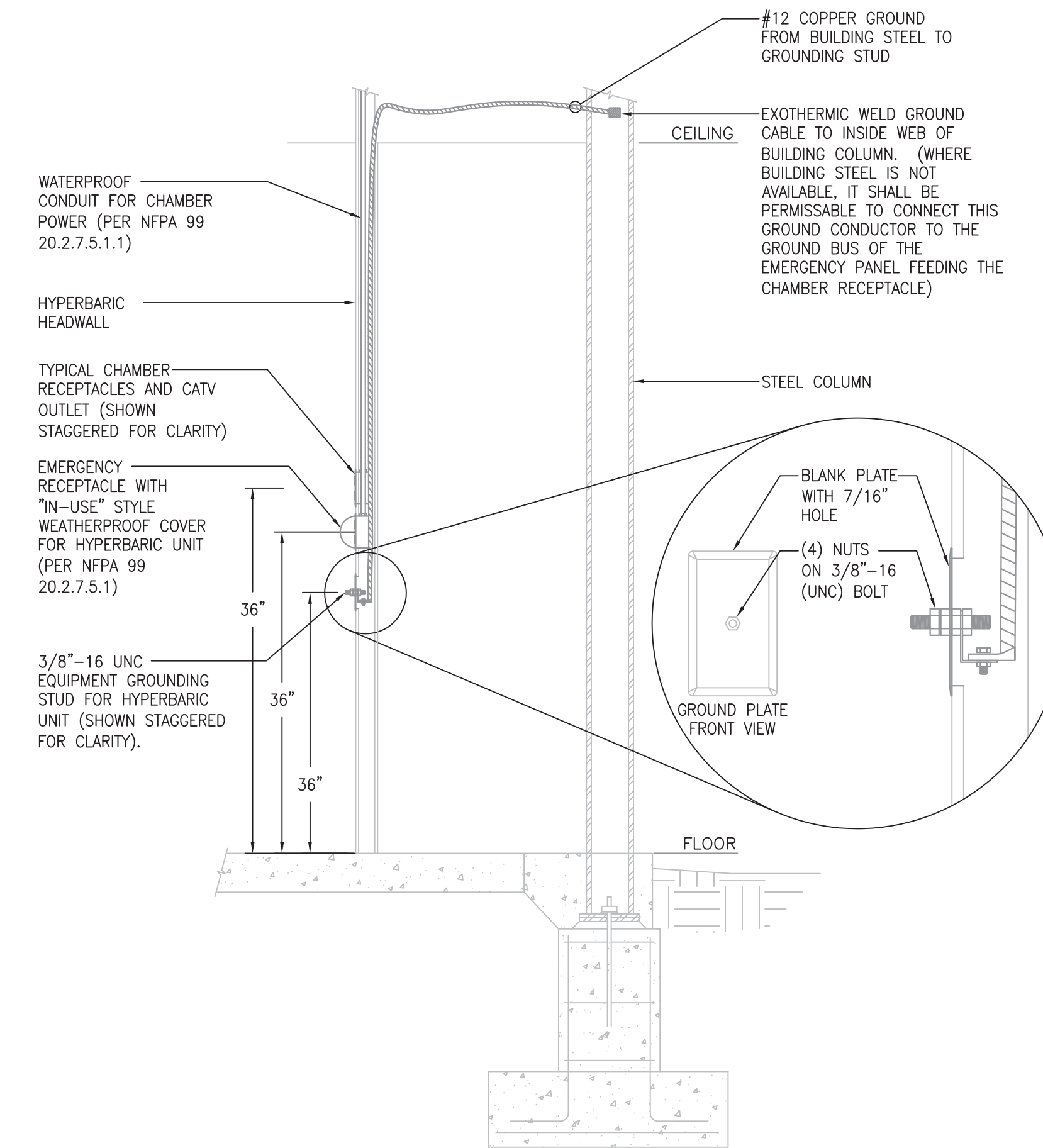
RISER DIAGRAM IS DIAGRAMMATIC REFER TO PLANS FOR QUANTITIES AND LOCATIONS. PROVIDE ALL NECESSARY COMPONENTS TO COMPLETE A FULLY OPERATIONAL SYSTEM INCLUDING DEVICES LOCATED ON MECHANICAL DRAWINGS. ALL CABLING SHALL BE IN CONDUIT OR MC CABLE PER MANUFACTURERS REQUIREMENTS.

- (E) - INDICATES EXISTING DEVICE TO REMAIN
 (N) - INDICATES NEW DEVICE TO BE PROVIDED
 (R) - INDICATES EXISTING TO BE RELOCATED/EXISTING RELOCATED

VERIFY DEVICE CAPACITY OF EXISTING CIRCUITS PRIOR TO BID AND PROVIDE NEW CIRCUIT(S) AND EXPANSION MODULES AS NEEDED.

COORDINATE ALL CONNECTIONS TO EXISTING SYSTEM WITH OWNER PRIOR TO BEGINNING WORK TO LIMIT SHUTDOWNS.

N.T.S. **2** PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM
E-3



- NOTES:**
- PROVIDE INSTALLATION IN CHAMBER ROOM IN ACCORDANCE WITH NFPA 99, CHAPTER 20, 2012. PROVIDE WATERPROOF CONDUIT FOR CIRCUITS FEEDING THE CHAMBERS.

N.T.S. **3** HYPERBARIC HEADWALL DETAIL
E-3 ELECTRICAL

L2GN (NEW)										208Y120V, 3 phase 100 Amp MCB 100% NEUTRAL FULL GROUND BUS 10 KAIC									
FEED THROUGH LUGS										FEED THROUGH LUGS									
CKT	DESCRIPTION	RECP	AC	HEAT	MECH	LTG	KITC	CB	PH	CB	RECP	AC	HEAT	MECH	LTG	KITC	DESCRIPTION	CKT	
1	LTS RM 046							x	20/1	A	20/1						CONSULT OFFICE RCPTS (5)	2	
3	RCPT RM G115, G116, DOOR OPERATOR G118							x	20/1	B	20/1						TREATMENT 1 RCPTS (5)	4	
5	MULTI-PURP. & UTIL. RCPTS (4)	0.9							20/1	C	20/1	x					Lights in compressor room across from the pe	6	
7	WTG ROOM POWERED DOOR	0.5							20/1	A	20/1						TREATMENT 3 RCPTS (5)	8	
9	GFI RCPT. RM G118, RCPT. RM 132C							x	20/1	B	20/1						TREATMENT 3 RCPTS (5)	10	
11	TREATMENT 1 RCPTS (4)	0.9							20/1	C	20/1	x					RCPT. RM G049	12	
13	ADMIN RCPTS (4)	0.72							20/1	A	20/1	x					RCPT. RM G120	14	
15	ADMIN RCPTS (4)	0.72							20/1	B	20/1						WTG. RM RCPTS (4)	16	
17	GFI RCPT. RM 050							x	20/1	C	20/1	x					RCPT. RM G120, G122	18	
19	FREIGHT ELEVATOR PRT PUMP G133C							x	20/1	A	20/1	x					LTS. RM G114 CLOSET	20	
21	VAV CIRCUIT	0.2							20/1	B	20/1	x					RCPT. IRRIGATION SYS. G115, NEXT TO PKN	22	
23	HBO RM. COM. & QUAD RCPTS. (6)	1.08							20/1	C	20/1	x					Compressor rm. wall recept. Across from panel	24	
25	FEED TO L2GN							x	60/3	A	20/1	x					Compressor rm. wall recept.	26	
								x	B	20/1		0.36					CHAMBER QUAD RCPTS (2)	28	
								x	C	20/1		0.36					CHAMBER QUAD RCPTS (2)	30	
31	CORRIDOR RECEPTACLES (X)	0.72							20/1	A	20/1		0.36				CHAMBER QUAD RCPTS (2)	32	
33	WTG ROOM POWERED DOOR	0.5							20/1	B	20/1		0.36				CHAMBER QUAD RCPTS (2)	34	
35	WTG ROOM POWERED DOOR	0.5							20/1	C	20/1		0.36				CHAMBER QUAD RCPTS (2)	36	
37	SPARE								20/1	A	20/1						SPARE	38	
39	SPARE								20/1	B	20/1						SPARE	40	
41	SPARE								20/1	C	20/1						SPARE	42	

* X. Circuits referenced to this note are existing relocated to new panel; new circuits in bold font.
 * 1. Breakers referenced to this note shall be GFI
 * 2. Breakers referenced to this note shall have lockout provisions

STANDARD BRANCH CIRCUIT WIRE SIZES:
 20/2 = 2#12, #12GND IN 3/4" C
 20/3 = 3#12, #12GND IN 3/4" C
 30/2 = 2#10, #10GND IN 3/4" C
 30/3 = 3#10, #10GND IN 3/4" C
 40/2 = 2#8, #10GND IN 3/4" C
 40/3 = 3#8, #10GND IN 3/4" C
 50/2 = 2#6, #10GND IN 3/4" C
 50/3 = 3#6, #10GND IN 3/4" C
 60/2 = 2#6, #10GND IN 3/4" C
 60/3 = 3#6, #10GND IN 3/4" C
 70/2 = 2#4, #8GND IN 1" C
 70/3 = 3#4, #8GND IN 1" C
 80/2 = 2#3, #8GND IN 1" C
 80/3 = 3#3, #8GND IN 1-1/4" C
 90/2 = 2#2, #8GND IN 1" C
 90/3 = 3#2, #8GND IN 1-1/4" C

PHASE A LOAD = 4.1 KVA 34 AMPS (CONNECTED LOADS)
 PHASE B LOAD = 4.66 KVA 39 AMPS (CONNECTED LOADS)
 PHASE C LOAD = 3.74 KVA 31 AMPS (CONNECTED LOADS)
 TOTAL LOAD = 12.5 KVA 35 AVG. AMPS.

N.T.S. **4** PANEL SCHEDULES
E-3

CR2-86-G-1 (NEW)										208Y120V, 3 phase 100 Amp MCB 100% NEUTRAL FULL GROUND BUS 10 KAIC									
FEED THROUGH LUGS										FEED THROUGH LUGS									
CKT	DESCRIPTION	RECP	AC	HEAT	MECH	LTG	KITC	CB	PH	CB	RECP	AC	HEAT	MECH	LTG	KITC	DESCRIPTION	CKT	
1	SPARE								20/1	A	20/1	0.2					CHAMBER RECEPTACLE (1)	2	
3	SPARE								20/1	B	20/1	0.2					CHAMBER RECEPTACLE (1)	4	
5	SPARE								20/1	C	20/1	0.2					CHAMBER RECEPTACLE (1)	6	
7	SPARE								20/1	A	20/1	0.2					CHAMBER RECEPTACLE (1)	8	
9	SPARE								20/1	B	20/1			0.15			HYPERBARIC CHAMBER LTG	10	
11	SPARE								20/1	C	20/1	0.1					NURSE CALL EQUIPMENT	12	
13	SPARE								20/1	A	20/1						SPARE	14	
15	SPARE								20/1	B	20/1						SPARE	16	
17	SPARE								20/1	C	20/1						SPARE	18	
19	SPARE								20/1	A	20/1						SPARE	20	
21	SPARE								20/1	B	20/1						SPARE	22	
23	SPARE								20/1	C	20/1						SPARE	24	
25	SPARE								20/1	A	20/1						SPARE	26	
27	SPARE								20/1	B	20/1						SPARE	28	
29	SPARE								20/1	C	20/1						SPARE	30	
31	SPARE								20/1	A	20/1						SPARE	32	
33	SPARE								20/1	B	20/1						SPARE	34	
35	SPARE								20/1	C	20/1						SPARE	36	
37	SPARE								20/1	A	20/1						SPARE	38	
39	SPARE								20/1	B	20/1						SPARE	40	
41	SPARE								20/1	C	20/1						SPARE	42	

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 70/3 = 3#4, #8GND IN 1" C
 80/2 = 2#3, #8GND IN 1" C
 80/3 = 3#3, #8GND IN 1-1/4" C
 90/2 = 2#2, #8GND IN 1" C
 90/3 = 3#2, #8GND IN 1-1/4" C

PHASE A LOAD = 0.4 KVA 3 AMPS (CONNECTED LOADS)
 PHASE B LOAD = 0.35 KVA 3 AMPS (CONNECTED LOADS)
 PHASE C LOAD = 0.3 KVA 3 AMPS (CONNECTED LOADS)
 TOTAL LOAD = 1.05 KVA 3 AVG. AMPS.

N.T.S. **5** LOAD CALCULATIONS
E-3

	GEN. (480V, 1000kVA)	ATS-CR#2 (480V, 400A)
EXISTING (KVA)	436.00	33.25
EXISTING (KVA) @125%	545.00	41.57
NEW (KVA)	0.95	0.95
TOTAL (KVA)	545.95	42.52
TOTAL (A)	656.70	51.14

*LOAD CALCULATED IN ACCORDANCE WITH NEC 220.87

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JOHN ZABLOWICZ, P.E.
 PROFESSIONAL ENGINEER
 LICENSE NO.: 13692

STATE: MAINE

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 LICENSE NO.: 13692

MAINE MEDICAL CENTER
 BRIGHTON CAMPUS
 WOUND CARE AND
 HYPERBARIC MEDICINE
 335 BRIGHTON AVENUE
 PORTLAND, ME 04103

KEY PLAN: GROUND FLOOR

ISSUE DATES:

▲ JANUARY 26, 2015
 ▲ STATE APPROVALS
 ▲ MARCH 20, 2015
 ▲ BLDG. DEPT. REVIEW

DRAWN BY: ARE

CHECKED BY: JZ

SCALE: AS NOTED

PROJECT NO.: P14110

SHEET TITLE:

ELECTRICAL
 DIAGRAMS, DETAILS,
 AND SCHEDULES

DRAWING NO.:

E-3

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