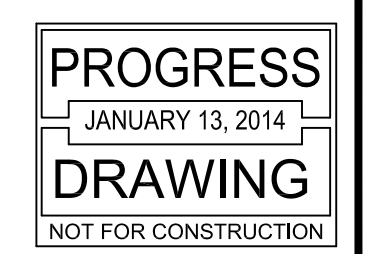


- POWER RISER NOTES:**
- 1.) CALCULATED AVAILABLE FAULT CURRENT AT THE SERVICE ENTRANCE IS ??,000 AMPS RMS SYMMETRICAL AT 208 VOLTS. FULLY RATE MAIN DISTRIBUTION PANEL (MDP) FOR A MINIMUM SHORT CIRCUIT INTERRUPT RATING OF ??,000 AMPS RMS SYMMETRICAL AT 208 VOLTS.
 - 2.) ALL NEW SUB PANELS FED FROM CIRCUIT BREAKERS IN MDP SHALL BE SERIES RATED FOR ??,000 AMPS PER UL STANDARDS IN ACCORDANCE WITH NEC SECTION 110-9, AND 110-10.
 - 3.) PROVIDED NEW 400A SELF-COINGATED METER SOCKET, COORDINATED APPROVED METER SOCKET, MOUNTING AND LOCATION WITH APPLICABLE UTILITY STANDARDS. PROVIDE GROUNDING ELECTRODE SYSTEM AND BONDING CONNECTIONS AS REQUIRED PER NEC 250 PART III AND CMP STANDARDS.
 - 4.) PROVIDE (1) 4" SCHD 40 PVC SECONDARY CONDUITS AND CONDUCTORS SIZED IN ACCORDANCE WITH NEC 310.15B FROM UTILITY POLE TO METER SOCKET. COORDINATE UNDERGROUND SECONDARY AND POLE RISER REQUIREMENTS WITH CMP STANDARDS.
 - 5.) PROVIDE (1) 4" SCHD 40 PVC SECONDARY CONDUIT AND CONDUCTORS SIZED IN ACCORDANCE WITH NEC 310.15B FROM METER SOCKET TO PANEL MDP. COORDINATE MOUNTING LOCATION OF METER SOCKET WITH CMP STANDARDS.
 - 6.) PROVIDE (1) 4" SCHD 40 PVC TELECOMM SERVICE CONDUITS AND (1) 2" CATV SERVICE CONDUIT WITH PULL LINES IN ACCORDANCE WITH UTILITY STANDARDS FROM UTILITY POLE TO DEMARCATION POINT FOR BUILDING SERVICES TO BE PROVIDED BY OTHERS.

1 ELECTRICAL RISER DAIGRAM
NOT TO SCALE

PANEL MDP													
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 1							
VOLTAGE (L-L):		208		MOUNTING:		SURFACE							
PHASES, WIRES:		3 ϕ 4 W		AIC RATING (A):		0							
MINIMUM BUS CAPACITY (A):		400 A		NOTES:		----							
MAIN O.C. DEVICE (A):		400 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A	B	C	POLE	TRIP AMPS	DESCRIPTION				
1	TC 1	20	1	1370	360	0	0	0	0	1	20	RECEPTS, MECH/POWERWASH	2
3	----	20	1	0	0	0	0	0	0	1	20	----	4
5	----	20	1	0	0	0	0	0	0	1	20	----	6
7	EMERG/MECH RM LTG/EXITS/EBUS	20	1	566	0	0	0	0	0	1	20	----	8
9	FIRST FLOOR LTG-LCP RELAY 1	20	1	0	1404	0	0	0	0	1	20	----	10
11	FIRST FLOOR LTG-LCP RELAY 2	20	1	0	0	1755	0	0	0	1	20	----	12
13	FIRST FLOOR LTG-LCP RELAY 3	20	1	1755	0	0	0	0	0	1	20	----	14
15	FIRST FLOOR LTG-LCP RELAY 4	20	1	0	1404	0	0	0	0	1	20	----	16
17	LTG-MEZZANINE VIA LCP RELAY 5	20	1	0	0	1755	0	0	0	1	20	----	18
19	LTG-MEZZANINE-LCP RELAY 6	20	1	702	0	0	0	0	0	1	20	----	20
21	GEAR SHOP LTG/WALL SCONCES	20	1	0	375	0	0	0	0	1	20	----	22
23	EXTERIOR DOOR LIGHTS	20	1	0	0	126	0	0	0	1	20	----	24
25	----	20	1	0	0	0	0	0	0	1	20	----	26
27	----	20	1	0	0	0	0	0	0	1	20	----	28
29	----	20	1	0	0	0	0	0	0	1	20	----	30
31,33,35	VNT 1	20	3	733	300	0	0	0	0	3	20	ERV 1	32,34,36
31,33,35	VNT 1	20	3	0	733	300	0	0	0	3	20	ERV 1	32,34,36
31,33,35	VNT 1	20	3	0	0	733	300	0	0	3	20	ERV 1	32,34,36
37,39,41	RTU 1	100	3	9500	8771	0	0	0	0	3	100	PANEL PP1	38,40,42
37,39,41	RTU 1	100	3	0	9500	11344	0	0	0	3	100	PANEL PP1	38,40,42
37,39,41	RTU 1	100	3	0	0	9500	6913	0	0	3	100	PANEL PP1	38,40,42
				CONNECTED LOAD PHASE TOTALS (VA)									
				24057	25060	21082							
				CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)							
				69.3	1.00	69.3							
				DEMAND LOAD	SPARE CAPACITY	DEMAND LOAD							
				69.3 KVA	74.8 KVA	69.3 KVA							
				SPARE CAPACITY	SPARE CAPACITY	SPARE CAPACITY							
				207.7 AMPS	207.7 AMPS	207.7 AMPS							
				PHASE BALANCE	PHASE BALANCE	PHASE BALANCE							
				A TO B	96%	A TO B							
				B TO C	84%	B TO C							
				C TO A	88%	C TO A							
				TOTAL:	69.3	69.3							
				LOAD (AMPS):	192.3	192.3							

PANEL PP1													
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 1							
VOLTAGE (L-L):		208		MOUNTING:		SURFACE							
PHASES, WIRES:		3 ϕ 4 W		AIC RATING (A):		0							
MINIMUM BUS CAPACITY (A):		100 A		NOTES:		----							
MAIN O.C. DEVICE (A):		100 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A	B	C	POLE	TRIP AMPS	DESCRIPTION				
1	LIGHTING-101,103,104	20	1	1081	2500	0	0	0	0	2	30	DRYER RECEIPT-103	2,4
3	LTG-105,106,107	20	1	0	1161	2500	0	0	0	2	30	DRYER RECEIPT-103	2,4
5	LIGHTING-200	20	1	0	0	450	1080	0	0	1	20	RECEPTS-101, 102	6
7	TRACK LIGHTING-102	20	1	1120	180	0	0	0	0	1	20	PRINTER RECEIPT-101	8
9	LIGHTING-106,107	20	1	0	360	180	0	0	0	1	20	QUAD RECEIPT-SERVER-103	10
11	ERV 2	20	1	0	0	400	1500	0	0	1	20	WASHER RECEIPT-103	12
13	----	20	1	0	1260	0	0	0	0	1	20	RECEPTS-104,105,106,107	14
15	FRN 1	20	1	0	1750	180	0	0	0	1	20	BRKRM COUNTER RECEIPT-106	16
17,19	HEAT PUMP 1B	20	2	100	180	0	0	1000	0	1	20	OVEN/MICRO-BRKRM-106	18
17,19	HEAT PUMP 1B	20	2	100	180	0	0	1000	0	1	20	COUNTER RECEIPT-BRKRM-106	20
21,23	HEAT PUMP 1A	20	2	1663	1200	0	0	0	0	1	20	REFRIGERATOR-BRKRM-106	22
21,23	HEAT PUMP 1A	20	2	1663	1200	1663	720	0	0	1	20	RECEPTS-MEZZ RM 200	24
25,27	CONDENSER 1	40	2	2350	0	0	0	0	0	1	20	----	26
25,27	CONDENSER 1	40	2	2350	0	0	0	0	0	1	20	----	28
29	----	20	1	0	0	0	0	0	0	1	20	----	30
				CONNECTED LOAD PHASE TOTALS (VA)									
				8771	11344	6913							
				CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)							
				26.1	1.00	26.1							
				DEMAND LOAD	SPARE CAPACITY	DEMAND LOAD							
				26.1 KVA	27.5 KVA	26.1 KVA							
				SPARE CAPACITY	SPARE CAPACITY	SPARE CAPACITY							
				27.5 AMPS	27.5 AMPS	27.5 AMPS							
				PHASE BALANCE	PHASE BALANCE	PHASE BALANCE							
				A TO B	77%	A TO B							
				B TO C	61%	B TO C							
				C TO A	79%	C TO A							
				TOTAL:	26.1	26.1							
				LOAD (AMPS):	72.5	72.5							



NO.	ISSUE/REVISION	DATE	BY
1	ISSUED FOR PROGRESS	1/13/14	JLESSARD



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EVO ROCK & FITNESS
65 WARREN AVE
PORTLAND, MAINE

DATE: 12-6-13

DRAWN BY: B.HARLOW

DESIGNED BY: M.WHITE

CHECKED BY: M. WHITE

SCALE: AS SHOWN

PROJECT NUMBER: ---

DRAWING TITLE:
RISER DIAGRAM AND DETAILS

DRAWING NUMBER
E2
SHEET 2 OF 4