

POWER RISER NOTES:

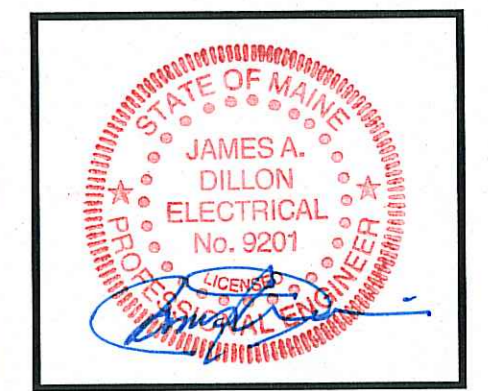
- 1.) CALCULATED AVAILABLE FAULT CURRENT AT THE SERVICE ENTRANCE IS LESS THAN 10,000 AMPS RMS SYMMETRICAL AT 208 VOLTS. FULLY RATE MAIN DISTRIBUTION PANEL (MDP) FOR A MINIMUM SHORT CIRCUIT INTERRUPT RATING OF 10,000 AMPS RMS SYMMETRICAL AT 208 VOLTS.
- 2.) ALL NEW SUB PANELS FED FROM CIRCUIT BREAKERS IN MDP MAY BE FULLY OR SERIES RATED FOR 10,000 AMPS RMS SYMETRICAL AT 208 VOLTS PER UL STANDARDS IN ACCORDANCE WITH NEC SECTION 110-9, AND 110-10.
- 3.) PROVIDED NEW 400A SELF-CONTAINED 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 RISER 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):		10000							
MINIMUM BUS CAPACITY (A):		400 A		NOTES:		SE RATED							
MAIN DEVICE (A):		400 A MCB											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO			
1,3,5	RTU-1	175	3	16000	1900		3	30	RTU-3	2,4,6			
1,3,5	RTU-1	175	3		16000	1900	3	30	RTU-3	2,4,6			
1,3,5	RTU-1	175	3			16000	1900	3	30	RTU-3	2,4,6		
7,9,11	RTU-2	40	3	2834	2500		2	30	DRYER	8,10			
7,9,11	RTU-2	40	3		2834	2500	2	30	DRYER	8,10			
7,9,11	RTU-2	40	3			2834	1500	1	20	WASHER	12		
13	SPARE	20	1	0	0		1	20	SPARE	14			
15	EXTERIOR POLE LIGHTS	20	1		500	0	1	20	SPARE	16			
17	EXTERIOR BLDG LIGHTS	20	1			128	0	1	20	SPARE	18		
19	SPACE	20	1	0	0		1	20	SPARE	19			
21	SPACE	20	1	0	0		1	20	SPARE	20			
23	SPACE	20	1			0	0	1	20	SPARE	22		
25	SPACE	20	1	0	8957		3	100	PANEL PP1	26,28,30			
27	SPACE	20	1			0	8891	3	100	PANEL PP1	26,28,30		
29	SPACE	20	1			0	5902	3	100	PANEL PP1	26,28,30		
				CONNECTED LOAD PHASE TOTALS (VA)									
				32191	32825	28282							
Standard		6.7		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		107.4			
Receptacles (0 - 10 KVA)		10.0		DEMAND FACTOR		0.50		DEMAND LOAD (kVA)		5.0			
Receptacles (Over 10 KVA)		0.7		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		0.7			
Motors		14.3		DEMAND FACTOR		1.25		DEMAND LOAD (kVA)		17.9			
Motors (Largest)		48.0		DEMAND FACTOR		1.25		DEMAND LOAD (kVA)		60.0			
Lighting		12.9		DEMAND FACTOR		1.25		DEMAND LOAD (kVA)		16.1			
TOTAL:		92.5		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		107.4			
LOAD (AMPS):		256.9		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		298.2			

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):		10000							
MINIMUM BUS CAPACITY (A):		100 A		NOTES:		-----							
MAIN DEVICE (A):		100 A MLO											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO			
1	RMS 101,103,104 LTG	20	1	1041	360		1	20	CLIMBING AREA RECPT	2			
3	RMS 105,106,107 LTG	20	1		1641	360	1	20	EXTERIOR RECPT	4			
5	RM 200 LTG	20	1			450	900	1	20	RM 101,102 RECPT	6		
7	RM 102 TRACK LTG	20	1	1210	180		1	20	RM 101 PRINTER RECPT	8			
9	RM 102 TRACK LTG	20	1		500	180	1	20	RM 103 SERVER RECPT	10			
11	RM 102 LTG	20	1			375	720	1	20	MEZZ RECPT	12		
13	EM/NL LTG	20	1	598	1260		1	20	RM 104,105,106,107 RECPT	14			
15	MEZZ LTG	20	1		1755	1500	1	20	RM 106 COUNTER RECPT	16			
17	MEZZ LTG	20	1			702	1000	1	20	RM 106 MIROWAVE	18		
19	CLIMBING AREA LTG	20	1	1404	1500		1	20	RM 106 COUNTER RECPT	20			
21	CLIMBING AREA LTG	20	1		1755	1200	1	20	RM 106 REFRIG RECPT	22			
23	CLIMBING AREA LTG	20	1			1755	0	1	20	SPARE	24		
25	CLIMBING AREA LTG	20	1	1404	0		1	20	SPARE	26			
27	SPARE	20	1		0	0	1	20	SPARE	28			
29	SPARE	20	1		0	0	1	20	SPARE	30			
				CONNECTED LOAD PHASE TOTALS (VA)									
				8957	8891	5902							
Standard		1.7		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		26.3			
Receptacles (0 - 10 KVA)		9.2		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		9.7			
Motors		0.0		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		0.0			
Motors (Largest)		0.0		DEMAND FACTOR		1.25		DEMAND LOAD (kVA)		0.0			
Lighting		12.3		DEMAND FACTOR		1.25		DEMAND LOAD (kVA)		15.3			
TOTAL:		23.2		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		27.1			
LOAD (AMPS):		64.4		DEMAND FACTOR		1.00		DEMAND LOAD (kVA)		72.9			

NO.	ISSUE/REVISION	DATE	BY
1	ISSUED FOR PROGRESS	1/13/14	JLESSARD
2	ISSUED FOR PROGRESS	2/5/14	JLESSARD
3	ISSUED FOR CONSTRUCTION	6/5/14	B.HARLOW



Interstate Electrical Services
THE DIFFERENCE IS ATTITUDE
15 COTE LAKE BEDFORD, N.H. 03110
P: (603) 627-3280 F: (603) 627-3480
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PROJECT: **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: 631940

DRAWING TITLE:
RISER DIAGRAM AND DETAILS

DRAWING NUMBER
E2
SHEET 2 OF 4

