

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	VOLTAGE	WATTAGE
A	2 x 4 LED CONTEMPORARY ARCHITECTURAL TROFFER	BY MFG.	COLUMBIA LCAT24-35VLG-E	UNV	58
B	LED TRACK HEAD	LED14E26P3030KNFLB	NORA NTH-109LED	120	14
C	CEILING MOUNTED / SUSPENDED FIXTURE PROVIDED BY OWNER / INSTALLED BY CONTRACTOR	MAX. 60 WATT	OWNER PROVIDED	120	60 MAX.
D	6" RECESSED LED CAN LIGHT	BY MFG.	LITHONIA REAL6C D6MW ESL 1500L 30K .65SC 120	120	18.8
EM1	EMERGENCY DUAL HEAD FIXTURE WITH 90 MIN. BATTERY BACKUP. WALL MOUNTED A MIN. OF 1'-0" BELOW CEILING OR 13'-6" IN AREAS WITH NO CEILING.	BY MFG.	SIMKAR SEMW	UNV	5.4
ER	DUAL EXIT DISCHARGE LIGHT (SEALED AND GASKETED) FED FROM EXIT SIGN. WALL MOUNTED A MIN. OF 1'-0" ABOVE DOOR HEAD AND POWERED FROM BATTERY SIDE OF EXIT LIGHT.	BY MFG.	SIMKAR REM2WP	6	5.4
EX1	LED EXIT LIGHT COMBO WITH HIGH OUTPUT 90 MIN. BATTERY TO FEED EXIT DISCHARGE LIGHT. WALL MOUNTED MIN. OF 6" ABOVE DOOR OR SURFACE MOUNTED ON CEILING.	BY MFG.	SIMKAR SCL12RW-REM REMOTE CAPABLE	UNV	5.4
EX2	LED EXIT LIGHT COMBO WITH 90 MIN. BATTERY BACK-UP. WALL MOUNTED MIN. OF 6" ABOVE DOOR OR SURFACE MOUNTED ON CEILING.	BY MFG.	SIMKAR SOL12RW	UNV	5.4
F	4' LED STRIPLIGHT	BY MFG.	METALUX 4SLSTP204DD-UNV	UNV	23
T-4	4' TRACK WITH NT-316B END FEED, NT-310B CONNECTOR & CURRENT LIMITER. SURFACE MOUNTED		NORA NT-302B	120	
T-8	8' TRACK WITH NT-316B END FEED, NT-310B CONNECTOR & CURRENT LIMITER. SURFACE MOUNTED		NORA NT-304B	120	

ALL FIXTURES & BULBS ARE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

**WIRING METHODS:**

ALL CONDUIT AND WIRING SIZES ARE SHOWN ON THE PANEL SCHEDULES AND RISER DIAGRAM. TYPES APPROVED ARE AS FOLLOWS:

OUTDOORS: USE THE FOLLOWING TYPES OF CONDUIT:

- EXPOSED RIGID STEEL OR IMC
- CONCEALED RIGID STEEL OR IMC
- UNDERGROUND: RMC

INDOORS: USE THE FOLLOWING WIRING METHODS:

- EXPOSED: IMC OR RIGID STEEL
- CONCEALED: EMT

WIRING CONDUCTORS SHALL BE SOFT-ANNEALED 98% COPPER. ALL CONDUCTORS LARGER THAN #8 AWG SHALL BE STRANDED. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG UNLESS OTHERWISE SPECIFIED. NO ALUMINUM CONDUCTORS WILL BE PERMITTED. TYPE THHN SHALL NOT BE USED UNDERGROUND, OUTSIDE, AT SERVICE ENTRANCES OR IN WET LOCATION. ALL INSULATION SHALL BE RATED AT 600 VOLTS.

THE FOLLOWING INSULATION TYPES ARE PERMITTED:

- #10 AWG AND SMALLER: THHN
- #8 AWG TO #4/0 AWG: THN, THHN
- SERVICE ENTRANCE: USE RHM
- WIRE THROUGH FLUORESCENT FIXTURE OR WITHIN 3' OF HEATING EQUIPMENT: THHN

TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS OF 100 AMPERES OR LESS SHALL UTILIZE CONDUCTOR AMPACITIES BASED ON 60 DEGREES CELSIUS TEMPERATURE RATINGS - SEE 2014 NEC TABLE 310.16 FOR AMPACITY RATINGS.

**GENERAL ELECTRIC NOTES:**

- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A PROPOSAL.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE & 2012 INTERNATIONAL ENERGY CONSERVATION CODE.
- ALL CONDUCTORS SHALL BE COPPER #12 MINIMUM.
- ALL CONDUITS SHALL HAVE PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTORS.
- PROVIDE THE NECESSARY PULL/JUNCTION BOXES, SUPPORTS AND MISC. ITEMS FOR A COMPLETE INSTALLATION.
- PROPERLY SEAL ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AREAS.
- PROVIDE TYPE WRITTEN PANEL DIRECTORIES.
- ALL WIRING SHALL BE IN CONTINUOUS CONDUIT SYSTEMS.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING.
- ELECTRICAL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
- SWITCHES AND RECEPTACLES SHALL BE 20 AMP COMMERCIAL GRADE.
- CONCEAL ALL CONDUITS AND BOXES UNLESS OTHERWISE NOTED.
- COORDINATE ALL POWER REQUIREMENTS WITH LOCAL POWER COMPANY ENGINEER.
- PROVIDE AND MAINTAIN TEMPORARY POWER AND LIGHTING SYSTEM FOR DURATION OF THE PROJECT.
- EMT FITTINGS SHALL BE DIE CAST SET SCREW.
- MAKE FINAL CONNECTIONS TO EQUIPMENT WITH FLEXIBLE METAL CONDUIT. LIQUID TIGHT WHERE EXPOSED TO WEATHER.
- ALL OUTLET COVERS AND SWITCH PLATES TO BE WHITE.
- INSTALLATION OF ALL ELECTRICAL WIRING MUST BE INSTALLED IN CONDUIT ON THE G-1 GARAGE LEVEL.

PANEL "A" - RELO													
277/480 VOLTS		3 PHASE			4 WIRE			ISCA RATING 22,000		NEMA RATING: I			
MOUNTING	RECESSED	MANS: 12.5A M.L.O.			TOTAL CONNECTED LOAD 16.6 KVA								
LOAD SERVED	TRIP	PIPE	CR.	GD.	LOAD-KVA	CKT. NO.	CKT. NO.	LOAD-KVA	GD.	CR.	PIPE	TRIP	LOAD SERVED
					A B C								
SPARE	20	-	-	-	1	2	-	-	-	-	-	-	SPARE
SPARE	20	-	-	-	3	4	-	-	-	-	-	20	SPARE
SPARE	20	-	-	-	5	6	-	-	-	-	-	-	SPACE ONLY
					6	7	-	-	-	-	-	-	SPACE ONLY
					4.7	8	-	-	-	-	-	-	SPACE ONLY
PANEL B (VIA T-1)	40	3/4	10	5.2	9	10	-	-	-	-	-	-	SPACE ONLY
					6	11	-	-	-	-	-	-	SPACE ONLY
					4.5	12	-	-	-	-	-	-	SPACE ONLY
VAV BOX HEAT	40	EX	EX	EX	2.2	13	-	-	-	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	-	15	16	-	-	-	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	-	17	18	-	-	-	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	-	19	20	-	-	-	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	-	21	22	-	-	-	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	-	23	24	-	-	-	-	-	-	SPACE ONLY
• VERIFY ELEC. LOAD / REQUIREMENTS PRIOR TO PURCHASING EQUIPMENT							PHASE 'A': 6.9 KVA PHASE 'B': 5.2 KVA PHASE 'C': 4.5 KVA						
16.6 KVA @ 277/480/3φ = 20 AMPERES													
PANEL LOCATED IN HALLWAY													

PANEL "B" - RELO													
120/208 VOLTS		3 PHASE			4 WIRE			ISCA RATING 10,000		NEMA RATING: I			
MOUNTING	RECESSED	MANS: 100A M.C.B.			TOTAL CONNECTED LOAD 14.4 KVA								
LOAD SERVED	TRIP	PIPE	CR.	GD.	LOAD-KVA	CKT. NO.	CKT. NO.	LOAD-KVA	GD.	CR.	PIPE	TRIP	LOAD SERVED
					A B C								
LIGHTING **	20	1/2	12	12	1.2	1	2	1.5	12	12	3/4	20	WATER HEATER *
LIGHTING **	20	1/2	12	12	1.2	3	4	1.5	12	12	3/4	20	WATER HEATER *
REC - SHOW WINDOWS	20	1/2	12	12	2.0	5	6	-	-	-	-	-	SPACE
REC - RTU / SMOKE DETECTORS	20	1/2	12	12	0.5	7	8	-	-	-	-	-	SPACE
REC - TELEPHONE	20	1/2	12	12	0.5	9	10	-	-	-	-	-	SPACE
SIGNAGE (VIA TIMECLOCK)	20	1/2	12	12	0.5	11	12	-	-	-	-	-	SPACE
DRINKING FOUNTAIN (GFI BREAKER)	20	1/2	12	12	1.0	13	14	-	-	-	-	-	SPACE ONLY
REC - GENERAL	20	1/2	12	12	1.0	15	16	-	-	-	-	-	SPACE ONLY
REC - GENERAL	20	1/2	12	12	1.0	17	18	-	-	-	-	-	SPACE ONLY
REC - RECEPTION CTR.	20	1/2	12	12	1.0	19	20	-	-	-	-	-	SPACE ONLY
REC - RECEPTION CTR.	20	1/2	12	12	1.0	21	22	-	-	-	-	-	SPACE ONLY
REC - STEREO SYSTEM	20	1/2	12	12	1.0	23	24	-	-	-	-	-	SPACE ONLY
REC - RESTROOMS	20	1/2	12	12	0.5	25	26	-	-	-	-	-	SPACE ONLY
SPARE	20	-	-	-	27	28	-	-	-	-	-	-	SPACE ONLY
SPARE	20	-	-	-	29	30	-	-	-	-	-	-	SPACE ONLY
• VERIFY ELEC. LOAD / REQUIREMENTS PRIOR TO PURCHASING EQUIPMENT							PHASE 'A': 4.7 KVA PHASE 'B': 5.2 KVA PHASE 'C': 4.5 KVA						
** - LOCKABLE CIRCUIT BREAKERS SHALL BE PROVIDED FOR ANY BRANCH CIRCUIT THAT FEEDS UNIT EQUIPMENT FOR EMERGENCY LIGHTING													
14.4 KVA @ 120/208/3φ = 40 AMPERES													
PANEL LOCATED IN HALLWAY													



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DATE: 2017-09-21

**REVISIONS:**

NO.	DATE	DESCRIPTION	BY

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**PROJECT NAME:**



TWO PORTLAND SQUARE  
477 FORE STREET - SUITE 128  
PORTLAND, MAINE 04101

**SHEET TITLE:**

**ELECTRICAL NOTES & PANEL SCHEDULES**

PROJECT NUMBER: 17-A094

DATE: 2017-09-21

SHEET NO.

**AE-2**

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