GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.

2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.

3. PROVIDE PANELBOARDS AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR APPROVED EQUAL.

4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2*12 AWG. AND 1*12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE *10 AWG.

5. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).

6. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA.). SIZE IN THE FIELD IN ACCORDANCE WITH MFGR. RECOMMENDATION.

7. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.

8. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.

9. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.

10. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250. 11. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER OR COMMUNICATIONS CONTRACTOR.

12. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.

13. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.

14. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.

15. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9. 16. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.

17. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT ADD TO MASTER AND DATE OBTAIN VALUES FROM ENGINEER.

18. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24.

19. PROVIDE UL APPROVED GROUNDING INTERFACE AT SERVICE FOR UTILITY GROUNDS PER NFPA 70-250.94.

ABBREVIATIONS

4		LP
AC	ALTERNATING CURRENT, ABOVE COUNTER	LTG
ADA	AMERICANS WITH DISABILITIES ACT	LSIG
٩F	AMP FRAME	
AFCI	ARC FAULT CIRCUIT INTERRUPTER	МСС
AFF	ABOVE FINISHED FLOOR	мссв
AFG	ABOVE FINISHED GRADE	мсв
AIC	AMPERES INTERRUPTING CAPACITY	MDP
AL.	ALUMINUM	MH
ΑT	AMP TRIP	MLO
ATC	AUTOMATIC TEMPERATURE CONTROL	
ATS	AUTOMATIC TRANSFER SWITCH	MTS
AWG	AMERICAN WIRE GAUGE	NC
		NEC
BLDG	BUILDING	NFPA
2	CONDUIT	NL
CB	CIRCUIT BREAKER	NO
CI	CAST IRON	NO.
CKT	CIRCUIT	OL
ł	CENTERLINE	P
CMP	CENTRAL MAINE POWER (ELECTRIC UTILITY)	PA
CMU	CONCRETE MASONRY UNIT	PB
CT	CURRENT TRANSFORMER	PF
CONC	CONCRETE	PH
	CARBON STEEL	
CS		PNL
CU		TP1-2
CUH	CABINET UNIT HEATER	PSNH
)L		PT
EC	ELECTRICAL CONTRACTOR	PVC
ĒF	EXHAUST FAN	RL
ER	EXISTING REMAINS IN PLACE	RM
ERL	EXISTING RELOCATE	RSC
ERM	EXISTING REMOVE	RTU
EUH	ELECTRIC UNIT HEATER	RV
EWC	ELECTRICAL WATER COOLER	RVNR
FACP	FIRE ALARM CONTROL PANEL	SB
FAPS	FIRE ALARM PULL STATION	SF
RP	FIBER REINFORCED PLASTIC	SLD
VNR	FULL VOLTAGE, NON-REVERSING	SM
-WU	FURNISHED WITH UNIT	-
C	DIRECT CURRENT	SS
GFI	GROUND FAULT INTERRUPTER	SWBD-
GND	GROUND	TC
HID	HIGH INTENSITY DISCHARGE	TS
HOA	HAND-OFF-AUTOMATIC	T&B
HP	HORSEPOWER	TYP
" HPS	HIGH PRESSURE SODIUM	UG
HZ	HERTZ	V
		V VA
СВ	INSULATED CASE CIRCUIT BREAKER	
JB	JUNCTION BOX	VFD
<aic< td=""><td>THOUSAND AMP INTERRUPTING CAPACITY</td><td>W</td></aic<>	THOUSAND AMP INTERRUPTING CAPACITY	W
<cmil< td=""><td>THOUSAND CIRCULAR MIL</td><td>W/</td></cmil<>	THOUSAND CIRCULAR MIL	W/
<v< td=""><td>THOUSAND VOLTS</td><td>WP</td></v<>	THOUSAND VOLTS	WP
<va< td=""><td>THOUSAND VOLT-AMPS</td><td>XFMR</td></va<>	THOUSAND VOLT-AMPS	XFMR
<w< td=""><td>THOUSAND WATTS (KILOWATT)</td><td>XP</td></w<>	THOUSAND WATTS (KILOWATT)	XP
_C	LIGHTING CONTACTORS	3PH
_CP	LATERAL CONTROL PIT	4W
ED	LIGHT EMITTING DIODE	3W

PANEL HP (Utility Room- 2nd floor) 120/240 1PH 3W 100 AMP BUS - MLO 10K AIC NEWA TYPE 1 (Recessed)															
CKT#	LOAD DESCRIPTION	AF	AT	Р	CA	DF	DA	akı	# LOAD DESCRIPTION	AF	AT	Р	CA	DF	DA
1	REFRIGERATOR	20	20	1	12	1.00	12		2 GAS RANGE/HOOD FAN & LIGHT	20	20	1	12	0.50	6
3	DISHWASHER	20	20	1	12	0.50	6		4 COUNTER OUTLETS & EXHAUST FAN (KITCHEN)	20	20	1	10	0.50	5
5	KITO-ENDISPOSAL UNIT	20	20	1	6	0.50	3		6 BATHROOM OUTLET & FANILIGHT	20	20	1	12	0.50	6
7	OUTLETS & DOORBELL/OHME	20	20	1	12	0.50	6		8 WASHER	20	20	1	12	0.50	6
9	BEDROOM#3&SHED CUTLETS	20	20	1	10	0.50	5		0 DRYER	20	20	1	6	0.50	3
11	MASTERBEDROOMOUTLETS	20	20	1	12	0.50	6		2 BEDROOM #2 OUTLETS	20	20	1	12	0.50	6
13	BATHROOM OUTLETS & FANILIGHT	20	20	1	12	0.50	6		4 LMNG ROOM ŒILING FAN	20	20	1	12	1.00	12
15	FIRST FLOOR LIGHTS	20	20	1	12	1.00	12		6 EXTERIOR LIGHTS	20	20	1	12	1.00	12
17	BATHROOMS FANILIGHT/VANTY LIGHT	20	20	1	12	1.00	12		8 TIME CLOCK	20	20	1	3	1.00	3
19	SECONDFLOORLIGHTS	20	20	1	12	1.00	12		0 B-1	20	20	1	5	0.50	3
21	CP-1&CP-2	20	20	1	2	0.50	1		2 SMOKE DETECTORS	20	20	1	6	1.00	6
23	KTO-ENCOUNTER OUTLETS	20	20	1	12	0.50	6		A CARBON MONOMIDE DETECTORS	20	20	1	6	1.00	6
25	TBB	20	20	1	6	0.50	3		6 UTILITY ROOM RECEPTAGLE	20	20	1	12	0.50	6
27	SPARE	20	20	1			0		8 SPARE	20	20	1			0
29	SPARE	20	20	1			0		0 SPARE	20	20	1			0
31	SPARE	20	20	1			0		2 SPARE	20	20	1			0
33		20	20	1			0		4	20	20	1			0
35		20	20	1			0		6	20	20	1			0
37		20	20	1			0		8	20	20	1			0
39		20	20	1			0		0	20	20	1			0
41							0		2						0

AF-Amp Frame AT-Amp Trip P-Poles A-Amps CA-Connected Amperes DF - Demand Factor (1 - .1) DA - Demand Amperes MLO-Main Lug Only MCB - Main Circuit Breaker

Tot Amps/PH - Connected Load Demand Factor Total Amps/PH - Demand Connected KVA Demand KVA Min. Panel Size (Demand x 1.25) - Amps Panel Size (Demand x 1.56) - Amperes

84.00 67% 56.50 30.23 20.33 70.63 88.14

SYMBOL LEGEND POWER PANEL,120/208V,3PHS,4WIRE LIGHTING PANELBOARD ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN LIGHTING LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT JUNCTION BOX - "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED A MOTOR CONTROL CENTER LIGHTING FIXTURES- CAPITAL LETTERS DENOTE TYPE AS MOLDED CASE CIRCUIT BREAKER CB ₽ю PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. DIAGONAL LINE INDICATES NIGHT LIGHT - UNSWITCHED MAIN CIRCUIT BREAKER FOa MAIN DISTRUBITION PANEL)P MANHOLE MAIN LUGS ONLY DISCONNECT SWITCH -250 VOLT- SIZE AND NUMBER OF POLES AS INDICATED ON Ч DRAWING PROVIDED AND INSTALLED BY E.C. - UNLESS OTHERWISE NOTED. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER. MANUAL TRANSFER SWITCH COMBINATION MOTOR STARTER/ DISCONNECT SWITCH - WITH AUXILARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT NORMALLY CLOSED OF NURSE CALL NATIONAL ELECTRICAL CODE PROVIDED AND INSTALLED BY E.C. - UNLESS OTHERWISE NOTED. PA NATIONAL FIRE PROTECTION ASSOCIATION VFD VARIABLE FREQUENCY DRIVE - PROVIDED BY M.C., INSTALLED AND WIRED BY E.C. NIGHT LIGHT RACEWAY & WIRING OR MC CABLE NORMALLY OPEN RUN CONCEALED IN WALLS/CEILINGS. NUMBER BRANCH CIRCUIT WIRING SHALL CONSIST OF 2*12, 1*12G, $\frac{1}{2}$ "C UNLESS OTHERWISE NOTED. ---- RACEWAY & WIRING RUN EXPOSED OVERLOAD ASTERISK INDICATES #10 AWG FOR ALL RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30'' BELOW FINISH GRADE POLE CIRCUITS CONTAINED IN HOMERUN. ____ DOUBLE ASTERISK INDICATES 2, *8 &1, *10, $\frac{3}{4}$ "C PUBLIC ADDRESS PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ATRICLE 250. PUSH BUTTON POWER FACTOR DENOTE CIRCUIT NUMBERS PHASE S SINGLE POLE SWITCH, 120 VOLT, 20 AMP, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, PANEL 3=3-WAY, 4=4 WAY, P=PILOT LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. 1-2 TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED D DIMMER SWITCH. PROVIDE DIMMER COMPATIBLE WITH FIXTURE TYPE INCANDESCENT NH PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY) POTENTIAL TRANSFORMER SPL PL - DENOTES PILOT LIGHT, SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE POLYVINYL CHLORIDE ELECTRICAL EQUIPMENT TO BE RELOCATED $S_{\rm B}$ burner safety switch - provide with Red plate - mounted 72" aff ELECTRICAL EQUIPMENT TO REMAIN S_{rf} range hood fan switch. Wire to grounded receptacle. SC RIGID STEEL CONDUIT Sri RANGE HOOD LIGHT SWITCH. WIRE TO JUNCTION BOX. ROOF TOP UNIT SELF CONTAINED EMERGENCY LIGHTING UNIT W/2 HEADS DUAL-LITE (LED) MODEL LZRDB-0603L WITH REMOTE HEADS (2) - 65 WATTS FOR 90 MINUTES, 6V D.C. ELECTRICAL EQUIPMENT TO REMOVE NR REDUCED VOLTAGE, NON-REVESING SMART BOARD DUAL-LITE (LED) MODEL No. OCRD-0603L AT DOORS (EXTERIOR) SUPPLY FAN EXIT LIGHT FIXTURE - UNSWITCHED - DUAL-LITE *LX-U-R-W-E OR APPROVED EQUAL D SINGLE LINE DIAGRAM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD TCP TEMPERATURE CONTROL PANEL - PROVIDED BY M.C. WIRED BY E.C. DEVICE, MOUNTED AT UNIT BUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF. "R" DENOTES REFRIGERATOR SOLID STATE /BD-1 SWITCHBOARD NUMBER AS DESIGNATED QUAD RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND TIME CLOCK MATCHING PLATE - MOUNT 18" AFF. TRANSFER SWITCH DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND TOP AND BOTTOM MATCHING PLATE - MOUNT 18" AFF. BOTTOM RECEPTACLE SWITCHED TYPICAL GROUND FAULT DUPLEX RECEPTACLE- 20A, 125V- TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED. UNDERGROUND VOLT FLOOR MOUNTED DUPLEX RECEPTACLE- 15A, 125V SPEC. GRADE GROUNDING TYPE VOLT-AMPERE - RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF VARIABLE FREQUENCY DRIVE D WATT - DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF WITH FACP FIRE ALARM CONTROL PANEL WEATHERPROOF 30 FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8"AFF - NUMERAL DENOTES CANDELA RATING "MH" DENOTES MINIHORN. NO DESIGNATION EQUILS A 15cd. MR TRANSFORMER EXPLOSION PROOF F FIRE ALARM PULL STATION - MOUNT 48"AFF THREE PHASE ¹⁵SP FIRE ALARM VISUAL STROBE ONLY - FLUSH MOUNT 6'-8" AFF NUMERALS DENOTE CANDELA RATINGS. FOUR WIRE THREE WIRE CEILING MOUNTED (CL) FIRE ALARM VISUAL STROBE ONLY NUMERALS DENOTE CANDELA RATINGS. 200°+D 135°+D SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR ER SMOKE DETECTOR, PHOTOELECTRIC TYPE- SYSTEM CONNECTED. "ER" - ELEV. RECALL SUSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE- W/ SOUNDER BASE-P CA DF DA 1 12 0.50 6 "SB" DENOTES SOUNDER BASE. CEILING MOUNTED CARBON MONOXIDE DETECTOR 1 | 10 | 0.50 | 5 1 12 0.50 6 SD DUCT SMOKE DETECTOR & TEST STATION 1 12 0.50 6 CTV CABLE TV JUNCTION BOX "CTV" - SIZE AS REQUIRED BY CABLE TV CO. 1 6 0.50 3 1 12 0.50 6 TV OUTLET LOCATION - CABLE AND JACKS BY E.C. 1 | 12 | 1.00 | 12

- ${\sf R}\, {f V}\,$ Telephone/data dual jack location mount 18"AFF two cat 5e cables back to tbb.
- FLV FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK TWO CAT 5E CABLES BACK TO TBB.
- ▼ TELEPHONE JACK LOCATION MOUNT 18"AFF ONE CAT 5E CABLE BACK TO TBB.
- CL(() WIFIROUTER, OCE CAT 5E CABLE BACK TO TBB OR IT ROOM. "CL" DENOTES MOUNTED ABOVE CEILING, "W" DENOTED WALL MOUNTED AT 72" AFF

PC PHOTOCELL LC LIGHTING CONTACTOR TC TIMECLOCK: NEMA 3R WITH LOCKING COVER. ● PUSHBUTTON DOORBELL. WIRED BY EC. SEE SPECIFICATIONS FOR MORE INFORMATION. DOORBELL CHIME. WIRED BY EC. SEE SPECIFICATIONS FOR MORE INFORMATION. IP INTERCOM PANEL IN UNIT DOOR ELECTRIC STRIKE INTERCOM PANEL AT RECEPTION M ELECTRICAL METER	
 CLECTRICK METER SPRINKLER SYSTEM FLOW SWITCH SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER CONTRACTOR, WRED BY E.C., VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR. MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK OTHER WISE NOTED SMOKE DAMPER FALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED SMOKE DAMPER FALL FAN/LIGHT UNIT PROVIDED BY MECHANICAL CONTRACTOR WIRED AND LAMPED BY ELECTRICAL CONTRACTOR. WP - DENOTES WEATHERPROOF CONSTRUCTION RP - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED RM - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED RV - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED RV - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED FWU - DENOTES FURNISHED WITH UNIT 	227 York Street Residence - Portland, Maine
	Architect: Reiter Architecture & Design PO Box 275 Brooklin, ME 04616 Tel. 207.359.2300 Structural & Civil Engineer: Casco Bay Engineering 424 Fore Street Portland, ME 04101 Tel. 207.842.2800 Mechanical & Electrical Engineer: Bennett Engineering PO Box 297 Freeport, ME 04032 Tel. 207.865.9475 Drwg Date / Issued by / Drwg Issue 5/10/13 BEI For Bldg Dept Review & Bidding Only, Not For Construction Drawing Title GEN. NOTES, ABBREV., SYMBOL LEGEND & PANEL SCHEDULE Drawing Number E3