

1 ELECTRICAL SITE PLAN

1" = 20'-0" 0 5'-0" 10'-0" 20'-0" 40'-0"



PLAN SYMBOLS

SYMBOL	DESCRIPTION
	125V, 20A, DUPLEX GROUNDED RECEPTACLE GFI = Ground Fault Type WP = Weatherproof AC = Mount 6" Above Sink or Counter
	125V, 20A, QUAD GROUNDED RECEPTACLE
	TELEPHONE OUTLET
	CABLE TELEVISION OUTLET
	WIRELESS DATA NETWORK OUTLET Mount 12" Below Ceiling
	DOOR INTERCOM STATION
	JUNCTION BOX
	ELECTRIC PANELBOARD (See Plans for Details)
	CONTROL PANEL (See Plans for Details)
	UNIT LOAD CENTER
	FIRE ALARM SMOKE DETECTOR Indicates Localized Detector
	FIRE ALARM CARBON MONOXIDE SENSOR Indicates Localized Detector
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM AUDIO VISUAL Indicates Visual Only
	FIRE ALARM PULL STATION
	#2 CEILING MTD. FLUORESCENT LIGHT Circuit Number Fixture Designation
	WALL MOUNTED LIGHT FIXTURE Fixture Designation
	RECESSED/CEILING MOUNTED LIGHT FIXTURE Fixture Designation
	LIGHT/DEVICE SWITCH 3 = Three-Way Type
	CEILING MTD. LGT. CONTROL MOTION SENSOR
	MOTOR OPERATED DAMPER (Provided Under Div 15)
	MANUAL MOTOR SWITCH

SINGLE LINE DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
	Ampere Frame Rating (3 poles Except as Noted Otherwise) CIRCUIT BREAKER
	Ampere Trip Rating ELECTRICAL CONNECTION
	GROUND CONNECTION
	EQUIPMENT ENCLOSURE
	TRANSFORMER
	200/3 FU:175 FUSED SWITCH Ampere Rating/No. of Poles Fuse Size
	UTILITY CO. SERVICE METER

2 ELECTRICAL SYMBOLS

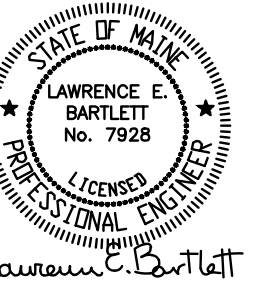
No Scale

PROJECT NOTES:

- ALL 120V RECEPTACLES IN KITCHENS AND BATHROOMS SHALL BE GFCI RATED EXCEPT FOR THE REFRIGERATOR.
- MINIMUM CIRCUIT BREAKER SIZE SHALL BE 20 AMP. MINIMUM WIRE SIZE SHALL BE #12 AWG.
- CONNECT ALL 120 VOLT RECEPTACLE CIRCUITS IN LIVING UNITS TO ARC-FAULT TYPE CIRCUIT BREAKERS IN LOAD CENTERS.
- ALL RECEPTACLES IN LIVING UNITS SHALL BE TAMPER-RESISTANT.
- COMBINATION HORN/STROBE/SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE.
- SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS IN LIVING UNITS SHALL BE CIRCUITED TO THE LOCAL LIGHTING CIRCUIT.
- WHERE STROBE CANDELA RATING IS NOT SHOWN FOR HOUSE FIRE ALARM NOTIFICATION APPLIANCES, STROBE RATING SHALL BE 15cd.
- INSTALL LOAD CENTERS WITHIN LIVING UNITS WITH THE TOP CIRCUIT BREAKER HANDLE AT 48" AFF. INSTALL NEW BRANCH CIRCUIT PANELS SO THAT THE TOP CIRCUIT BREAKER IS NO HIGHER THAN 6'-0" AFF.
- COORDINATE THE EXACT LOCATION OF RECEPTACLES IN KITCHENS SO THAT NO POINT ON THE COUNTER IS GREATER THAN 24" TO A RECEPTACLE. PROVIDE AN ABOVE COUNTER RECEPTACLE AT ALL KITCHEN COUNTERS THAT ARE GREATER THAN 12".
- FOR RECEPTACLES INDICATED AND ALL RECEPTACLES IN BEDROOMS, CONNECT THE TOP HALF OF THE RECEPTACLE TO LIGHT SWITCH AS INDICATED. DO NOT CONNECT RECEPTACLES ADJACENT TO EXISTING TELEVISION OUTLET TO SWITCH.
- PROVIDE A 120V, DUPLEX RECEPTACLE FOR GAS RANGE CONTROLS, MOUNT 18" ABOVE FINISHED FLOOR. PROVIDE A 120V CIRCUIT CONNECTION TO COMBINATION MICROWAVE/HOOD UNIT MOUNTED ABOVE RANGE. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- DO NOT INSTALL FLUSH MOUNTED BOXES BACK-TO-BACK IN WALLS; PROVIDE A MINIMUM 24 INCH SEPARATION. WHERE 24 INCH SEPARATION IS NOT PHYSICALLY POSSIBLE, APPROVAL FOR CLOSER SPACING SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO ROUGH-IN. IN SUCH CASES, PROVIDE UL LISTED FIRESTOP PADS FOR BOXES.
- ENSURE THAT OUTLET BOXES IN COMMON WALLS OF DWELLING UNITS ARE SEALED AGAINST AIR FILTRATION THROUGH THE USE OF CAULKING DRYWALL TO THE BOX AND PROVIDING COVER PLATE GASKETS.
- UNLESS SPECIFICALLY OTHERWISE NOTED 3-PHASE LOADS SHALL BE CIRCUITED WITH 3 #12, 1 #12GND, IN A 3/4" CONDUIT.
- PROVIDE TEN (10) 120V, 30A CIRCUITS IN PANEL HP-M FOR EXHAUST FANS TO BE MOUNTED ON ROOF. PROVIDE A 208V, 60A/3P CIRCUIT IN PANEL HP-M FOR AN 8.5TON PACKAGED ROOFTOP UNIT. PROVIDE TWO (2) 208V, 30A/2P CIRCUITS IN PANEL HP-M FOR GUEST ROOM MULTI-SPLIT UNITS. PROVIDE SIX (6) 208V, 20A/2P CIRCUITS IN PANEL HP-M FOR ELECTRIC UNIT HEATERS, LOCATION TO BE DETERMINED. PROVIDE A 120V, 20A CIRCUIT IN PANEL HP-M FOR THE ELEVATOR EXHAUST FAN. PROVIDE A 120V, 20A CIRCUIT IN PANEL HP-M FOR THE ELEVATOR SUMP PUMP. VERIFY THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- PROVIDE WEATHERPROOF GFI RATED RECEPTACLES SO THAT THERE IS A RECEPTACLE WITHIN 25FT OF EACH MECHANICAL UNIT LOCATED ON THE ROOFTOP. WHERE RECEPTACLE IS MOUNTED TO MECHANICAL UNIT, ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS INTO UNIT.
- WITHIN EACH LIVING UNIT PROVIDE THE FOLLOWING LOAD CENTER CIRCUITS:
 - 20A/1P - DINING AREA/HALL RECEPTACLES
5 RECEPTACLES MAX. PER CIRCUIT
 - 20A/1P - LIVING AREA RECEPTACLES
5 RECEPTACLES MAX. PER CIRCUIT
 - 20A/1P - BEDROOM RECEPTACLES
 - 20A/1P - BEDROOM RECEPTACLES
 - 20A/1P - BEDROOM RECEPTACLES
 - 20A/1P - BATHROOM RECEPTACLE
 - 20A/1P - BATHROOM RECEPTACLE
 - 20A/1P - LIGHTING/SMOKE DETECTORS
 - 20A/1P - DOOR INTERCOM STATION
 - 20A/1P - GAS RANGE
 - 20A/1P - RANGE HOOD/MICROWAVE COMBO UNIT
 - 20A/1P - KITCHEN RECEPTACLES
 - 20A/1P - KITCHEN RECEPTACLES
 - 20A/1P - REFRIGERATOR
 - 20A/1P - DISHWASHER
 - 20A/1P - GAS WASHER/DRYER/RECEPT
 - 15A/1P - ERV UNIT
 - 15A/1P - BOILER/PUMPS UNIT
 - 15A/1P - FAN COIL UNIT
 - 15A/2P - CONDENSING UNIT (LC-1 ONLY)
 - 35A/2P - ROOF MTD CONDENSING UNIT (LC-2 ONLY)
- PROVIDE A 15A, 120V CONNECTION, CIRCUITED TO THE UNIT LOAD CENTER, FOR BOILER & CIRCULATING PUMPS TO BE LOCATED IN UNIT MECHANICAL CLOSET. PROVIDE A 15A, 120V CONNECTION, CIRCUITED TO THE UNIT LOAD CENTER, FOR FAN COIL UNIT TO BE LOCATED ABOVE BATHROOM CEILING.
- PROVIDE A 15A, 120V CONNECTION, CIRCUITED TO THE UNIT LOAD CENTER, ERV UNIT TO BE LOCATED ABOVE BATHROOM CEILING.
- FOR UNITS WITH LOAD CENTERS LC-1, PROVIDE A 50A, 240V CONNECTION FOR UNIT'S ROOF MOUNTED CONDENSING UNIT. FOR UNITS WITH LOAD CENTERS LC-2, PROVIDE A 35A, 240V CONNECTION FOR UNIT'S ROOF MOUNTED CONDENSING UNIT.
- PROVIDE A 15A, 120V CONNECTION, CIRCUITED TO PANEL HP
- PROVIDE A 120V, 20-AMPERE CIRCUIT (PANEL HP #42) TO ELEVATOR SHAFT VENT DAMPER OPERATOR. PROVIDE CONNECTION TO SMOKE DETECTOR WITH CONTROL MODULE AND CONTROL RELAY TO OPEN VENT UPON DETECTION OF SMOKE WITHIN ELEVATOR SHAFT.

3 PROJECT NOTES

No Scale



Prepared For:
Developers Collaborative

Consultant:
Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
100 W. BROAD STREET, PORTLAND, ME 04101
TEL: (207) 443-3447 FAX: (207) 443-6800

Architect:
ARCHITYPE architects
48 Union Wharf Portland, Maine 04101
(207) 772-6022 ARCHITYPE@ARCHITYPEPA.COM

Project:
NATHAN CLIFFORD SCHOOL REDEVELOPMENT
80 Falmouth Street Portland, Maine

Revisions:

Scale:
1" = 20'-0"

Date:
15 JAN 2013

E0.01
ELECTRICAL SITE PLAN