LINE TYPES

EXISTING ---- DEMOLITION MATCHLINE

GAS DETECTOR
CO - CARBON MONOXIDE

CO2 - CARBON DIOXIDE

-·-·-- PART PLAN OUTLINE

ABBREVIATIONS AMPERE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AFG AHJ AUTHORITY HAVING JURISDICTION AIC AMPERE INTERRUPTING CAPACITY AMERICAN WIRE GAUGE BELOW FINISHED GRADE BLDG BUILDING BOS BOTTOM OF STEEL CONDUIT CATV CABLE TELEVISION CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CPT CONTROL POWER TRANSFORMER CT CURRENT TRANSFORMER COPPER DIGITAL ALARM COMMUNICATOR TRANSMITTER DIRECT BURIED DISCONNECT DOWN ELECTRICAL METALLIC TUBING EMT EWC ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER EQP EQUIPMENT **EXIST** EXISTING FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS FB0 FLR FLOOR FWE FURNISHED WITH EQUIPMENT FU FUSE GROUND GEN GENERATOR **GFCI** GROUND FAULT CIRCUIT INTERRUPT CLG CEILING GND GROUND HP HORSEPOWER HEATER ISOLATED GROUND IG INTERMEDIATE METAL CONDUIT KILO THOUSAND CIRCULAR MILS ΚV KILOVOLT KILOVOLT-AMPERE KVAR KILOVOLT-AMPERE REACTIVE KILOWATT KILOWATT-HOUR KWH LA LIGHTNING ARRESTER LIGHTING METAL CLAD MAIN CIRCUIT BREAKER MANUFACTURER MINERAL INSULATED MAIN LUG ONLY MNS MASS NOTIFICATION SYSTEM MOUNTED MV MEDIUM VOLTAGE NC NORMALLY CLOSED NATIONAL ELECTRICAL CODE NEG NEGATIVE NEUT NEUTRAL NOT IN CONTRACT NO NORMALLY OPEN NOT TO SCALE

NO2 - NITROGEN DIOXIDE

POWER FACTOR PF PHASE PVC POLYVINYL CHLORIDE RMROOM RSC RIGID STEEL CONDUIT RTD RESISTANCE TEMPERATURE DETECTOR SN SOLID NEUTRAL SPD SURGE PROTECTIVE DEVICE STP SHIELDED TWISTED PAIR STT SHIELDED TWISTED TRIPLET SWITCHBOARD SWBD

SWGR

TOS

WP XFMR

TANSF

SWITCHGEAR

TOP OF STEEL

TRANSFORMER

VOLT-AMPERE

WATT METER

WEATHER PROOF

EXPLOSION PROOF

TRANSFORMER

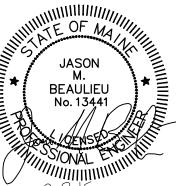
VOLT-AMPERE REACTIVE

GENERAL NOTES

- ALL GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC) 2014.
- 3. REMOVE ALL ELECTRICAL EQUIPMENT COMPLETELY WHERE INDICATED. REMOVE ALL CIRCUIT CONDUCTORS, SWITCHES, LIGHTING FIXTURES AND MISCELLANEOUS APPLIANCES BACK TO ENERGIZING SOURCE OR JUNCTION BOX WHERE MULTIPLE EQUIPMENT IS POWERED.
- 4. ALL CONDUCTOR MATERIAL, INCLUDING WIRING, PANELBOARD BUSES, TRANSFORMER WINDINGS, AND GROUNDING SHALL BE COPPER. ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED.
- 5. UNLESS OTHERWISE NOTED, WIRING SHALL BE 2#12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG.
- LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE 277/120 VOLT, SIDE WIRED AND PROVIDED WITH GROUNDING SCREW. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH OWNER.
- CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE GROUNDING TYPE NEMA 5-20R, SIDE WIRED. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL.
- ALL EQUIPMENT DISCONNECTS AND MANUAL MOTOR STARTERS ARE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE). MOUNT ALL DISCONNECTS AND MOTOR STARTERS IN AN ACCESSIBLE LOCATION WITHIN SIGHT OF THE LOAD SERVED.
- 9. UNLESS OTHERWISE NOTED CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18-INCHES AFF AND LIGHTING TOGGLE SWITCHES 48-INCHES AFF.
- 10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.
- EQUIPMENT CONNECTIONS ARE SHOWN FOR BASIS-OF-DESIGN PRODUCTS. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS - INCLUDING DISCONNECTING MEANS, OVERCURRENT PROTECTION, AND WIRE SIZING - WITH SELECTED MANUFACTURER'S RECOMMENDED INSTRUCTIONS.
- 12. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. MOUNT EQUIPMENT AND ROUTE CONDUIT SO AS NOT TO INTERFERE WITH OPERATIONS SUCH AS OVERHEAD DOORS, DOOR SWINGS, ETC.
- 13. MANUFACTURERS NAME AND MODEL NUMBERS ARE USED THROUGHOUT THE PROJECT FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. DESIGN IS PREDICATED AROUND LISTED MANUFACTURERS AS NOTED ON SCHEDULES AND NOTES AND IS NOT INTENDED TO LIMIT THE CONTRACTOR TO ONE MANUFACTURER.

LOADCENTER REPLACEMENT SCOPE

- 1. ALL EXISTING FEDERAL PACIFIC LOADCENTERS ARE TO BE REPLACED. EXISTING FEDERAL PACIFIC LOADCENTERS ARE MODEL NUMBER LX108-16.
- NEW LOADCENTERS SHALL BE HOMELINE HOM12L125GC OR APPROVED EQUAL.
- 3. ALL APARTMENTS HAVE A FEDERAL PACIFIC LOADCENTER THAT SHALL BE REPLACED.



0 ISSUED FOR CONSTRUCTION Colby Company

engineering

DESCRIPTION SIZE: 47A York Street DATE: Portland, Maine 04101 207.553.7753 colbycoengineering.com

GENERAL NOTES DWN APP DATE ANSI D PROJECT NO. 9-8-15 218.011.001 DES BY: JMB SHEET DWN BY: JMB 14 OF 17 CKD BY: BCT

JMB | MRL | 9-8-15

DRAWING NO. E-001

PORTLAND HOUSING AUTHORITY

PORTLAND, MAINE

RIVERTON BOILER REPLACEMENTS **BUILDING NOs 12,17,25**

ELECTRICAL LEGEND, ABBREVIATIONS AND

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