

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. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL" UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE 2#12 AWG AND #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
- 4. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- 5. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- 6. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
- 7. 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 MFGOR RECOMMENDATION.
- 8. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- 9. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- 10. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- 11. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- 12. PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING (ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMP(S)).
- 13. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- 14. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- 15. OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.
- 16. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
- 17. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
- 18. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- 19. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- 20. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
- 21. OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
- 22. PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
- 23. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.

ABBREVIATIONS

A	AMP	LP	LIGHTING PANELBOARD
AC	ALTERNATING CURRENT, ABOVE COUNTER	LTG	LIGHTING
ADA	AMERICANS WITH DISABILITIES ACT	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED
AF	AMP FRAME	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCCB	MOLDED CASE CIRCUIT BREAKER
AFI	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MDB	MAIN DISTRIBUTION PANEL
ANC	AMPERES INTERRUPTING CAPACITY	MH	MANHOLE
AL	ALUMINUM	MLO	MAIN LUGS ONLY
AT	AMP TRIP	MTS	MANUAL TRANSFER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL	NTS	NORMALLY CLOSED OF NURSE CALL
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BLDG	BUILDING	NL	NIGHT LIGHT
C	CONDUIT	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NO.	NUMBER
CI	CAST IRON	OL	OVERLOAD
CKT	CIRCUIT	P	POLE
CL	CENTERLINE	PA	PUBLIC ADDRESS
CMU	CENTRAL MAINE POWER (ELECTRIC UTILITY)	PB	PUSH BUTTON
CNP	CONCRETE MASONRY UNIT	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CONC	CONCRETE	PNL	PANEL
CS	CARBON STEEL	TPI-2	TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED
CU	COPPER	PSNH	PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)
CUH	CABINET UNIT HEATER	PT	POTENTIAL TRANSFORMER
DH	DAMP LOCATION	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RL	ELECTRICAL EQUIPMENT TO BE RELOCATED
EF	EXHAUST FAN	RW	ELECTRICAL EQUIPMENT TO REMAIN
ER	EXISTING REMAINS IN PLACE	RSC	RIGID STEEL CONDUIT
ERL	EXISTING RELOCATE	RTU	ROOF TOP UNIT
ERM	EXISTING REMOVE	RE	ELECTRICAL EQUIPMENT TO REMOVE
EUH	ELECTRIC UNIT HEATER	RVNR	REDUCED VOLTAGE, NON-REVSING
EWC	ELECTRICAL WATER COOLER	SB	SMART BOARD
FACP	FIRE ALARM CONTROL PANEL	SF	SUPPLY FAN
FAPS	FIRE ALARM PULL STATION	SLD	SINGLE LINE DIAGRAM
FRP	FIBER REINFORCED PLASTIC	SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
FVNR	FULL VOLTAGE, NON-REVERSING FURNISHED WITH UNIT	SS	SOLID STATE
DC	DIRECT CURRENT	SWBD-1	SWITCHBOARD NUMBER AS DESIGNATED
GFI	GROUND FAULT INTERRUPTER	TC	TIME CLOCK
GND	GROUND	TS	TRANSFER SWITCH
HD	HIGH INTENSITY DISCHARGE	T&B	TOP AND BOTTOM
HOA	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HP	HORSEPOWER	UG	UNDERGROUND
HPS	HIGH PRESSURE SODIUM	V	VOLT
HZ	HERTZ	VA	VOLT-AMPERE
ICB	INSULATED CASE CIRCUIT BREAKER	VFD	VARIABLE FREQUENCY DRIVE
JB	JUNCTION BOX	W	WATT
KAIC	THOUSAND AMP INTERRUPTING CAPACITY	W/	WITH
KCML	THOUSAND CIRCULAR MIL	WP	WEATHERPROOF
KV	THOUSAND VOLTS	XFR	TRANSFORMER
KVA	THOUSAND VOLT-AMPS	XP	EXPLOSION PROOF
KW	THOUSAND WATTS (KILOWATT)	3PH	THREE PHASE
LC	LIGHTING CONTACTORS	LCP	LATERAL CONTROL PIT
LCP	LIGHTING CONTACTORS	4W	FOUR WIRE
LCP	LATERAL CONTROL PIT	3W	THREE WIRE
LED	LIGHT EMITTING DIODE		

SYMBOL LEGEND

- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- ⊗ ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- H, DS, DW ⊗ JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT UNIT
- DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING, PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- COMBINATION MOTOR STARTER/ DISCONNECT SWITCH WITH AUXILIARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT, PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
- ☞ VARIABLE FREQUENCY DRIVE, PROVIDED BY MC, INSTALLED AND WIRED BY EC
- ☞ DUPLEX RECEPTACLE, 20A, 125V SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- ☞ QUAD RECEPTACLE, 20A, 125V SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- ☞ DUPLEX RECEPTACLE, 20A, 125V SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT 18" AFF, BOTTOM RECEPTACLE FIXTURED.
- ☞ GROUND FAULT DUPLEX RECEPTACLE 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF UNLESS OTHERWISE NOTED.
- ☞ REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT RECEPTACLE AT 48" AFF.
- CL ☞ FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE - 20A, 125V SPEC. GRADE GROUNDING TYPE. "CL" DENOTES CEILING MOUNTED
- ☞ RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- ☞ DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILING
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- X HP-XX HOME RUN TO PANEL WITH PANEL AND CIRCUIT NUMBER
- CTV CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- TV TV OUTLET LOCATION, CABLE AND JACKS BY EC
- TEMPERATURE CONTROL PANEL, PROVIDED BY MC WIRED BY EC
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN W/ DOOR OPERATOR, WIRED BY EC
- DOOR PUSHBUTTON-DOORBELL
- DOOR ELECTRIC STRIKE
- DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- ☐ LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE; LOWER CASE LETTERS INDICATE SWITCH CONTROL. "SB" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED "a" AND "b". DIAGONAL INDICATED NIGHT LIGHT (UNSWITCHED)
- SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ25M-03L, 25 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- EMERGENCY LIGHTING BATTERY PACK DUAL-LITE NO LM130-12VI-0 SELF-DIAGNOSTIC
- INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL NO CPRD 1203L, COLOR BY ARCHITECT
- EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL NO OCRD 1203L, COLOR BY ARCHITECT
- EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL
- EXIT/ EMERGENCY LIGHT COMBO, DUAL-LITE NO EVCU-R-D4-1OR APPROVED EQUAL COLOR BY ARCHITECT
- SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- DT PIR CEILING MOUNTED MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & BI20E-P POWER PACK, OTHER COMMON SPACES: WT-605 SENSOR & BI20E-P POWER PACK. SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED.
- DT PIR INDICATES DUAL TECHNOLOGY
- DT PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- WALL MOUNTED SWITCH MOTION SENSOR, MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- SINGLE POLE SWITCH, 120V, 20A, SPEC. GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD
- SWITCH WITH PILOT LIGHT, SWITCH SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.
- BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC. GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- PHOTOCELL
- LIGHTING CONTACTOR
- TIMECLOCK
- TELEPHONE/DATA DUAL JACK LOCATION, CONTRACTOR SHALL PROVIDE FLUSH MOUNT DEVICE BOX WITH PULL STRINGS, MOUNT 18" AFF. CABLING DONE BY AMERIPRISE FINANCIAL PROVIDED VENDOR.
- WALL MOUNTED DATA JACK LOCATION, CONTRACTOR SHALL PROVIDE FLUSH MOUNT DEVICE BOX WITH PULL STRINGS. CABLING DONE BY TRAVELERS INSURANCE PROVIDED VENDOR.
- TELEPHONE JACK, MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CAT 5E CABLE BACK TO TBB
- TELEPHONE BACK BOARD
- WIFI ROUTER, OCE CAT 5E CABLE BACK TO TBB OR IT ROOM, MOUNT ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- WALL MOUNTED DATA JUNCTION FOR FURNITURE WHIP, CONTRACTOR SHALL PROVIDE FLUSH MOUNT DEVICE BOX WITH PULL STRINGS AND INSTALL OWNER PROVIDED FURNITURE WHIP FOR WORKSTATION CABLING, CABLING INTO SYSTEMS FURNITURE DONE BY AMERIPRISE FINANCIAL PROVIDED VENDOR.
- WALL MOUNTED POWER JUNCTION FOR FURNITURE WHIP, CONTRACTOR SHALL HOOK UP OWNER PROVIDED FURNITURE WHIP.
- CARD READER LOCATION, PROVIDE BOX AND 3/4" CONDUIT TO NEAREST LOCATION ABOVE SUSPENDED CEILING, PROVIDE 120V DOOR STRIKE POWER FROM NEAREST RECEPTACLE CIRCUIT.
- FIRE ALARM CONTROL PANEL WITH DEDICATED TELEPHONE JACK
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE EXTINGUISHER ELECTRONIC MONITOR-SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP
- FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATING. "MH" DENOTES MHNHORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 15cd
- FIRE ALARM PULL STATION, MOUNT 48" AFF
- FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
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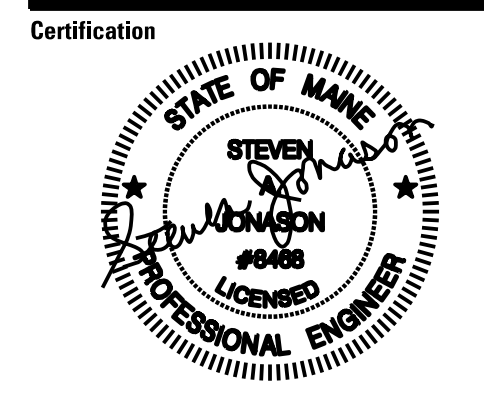
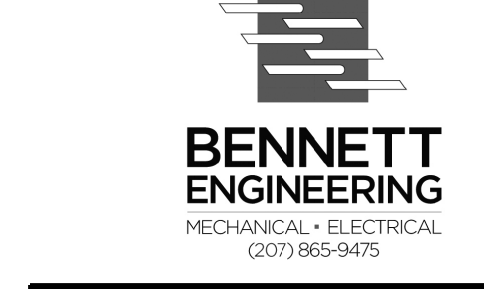
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Signature Steven A. Jonason
Registration No. 8488 Expiration Date
Signing Date

Project For



AMPF Project # 17621008028E
AMPF Cost Center # 3071
AMPF Project Name PORTLAND

TENANT IMPROVEMENT

AMERIPRISE FINANCIAL
2 PORTLAND SQUARE
7TH FLOOR
SUITE # 701
PORTLAND, ME 04101

Project No. 17621008028E
Drawn By CAT
Checked By SAJ
Date 9/16/16

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Revisions		
No.	Date	Description
	9/16/16	PERMIT BID SET

ELECTRICAL NOTES & LEGEND