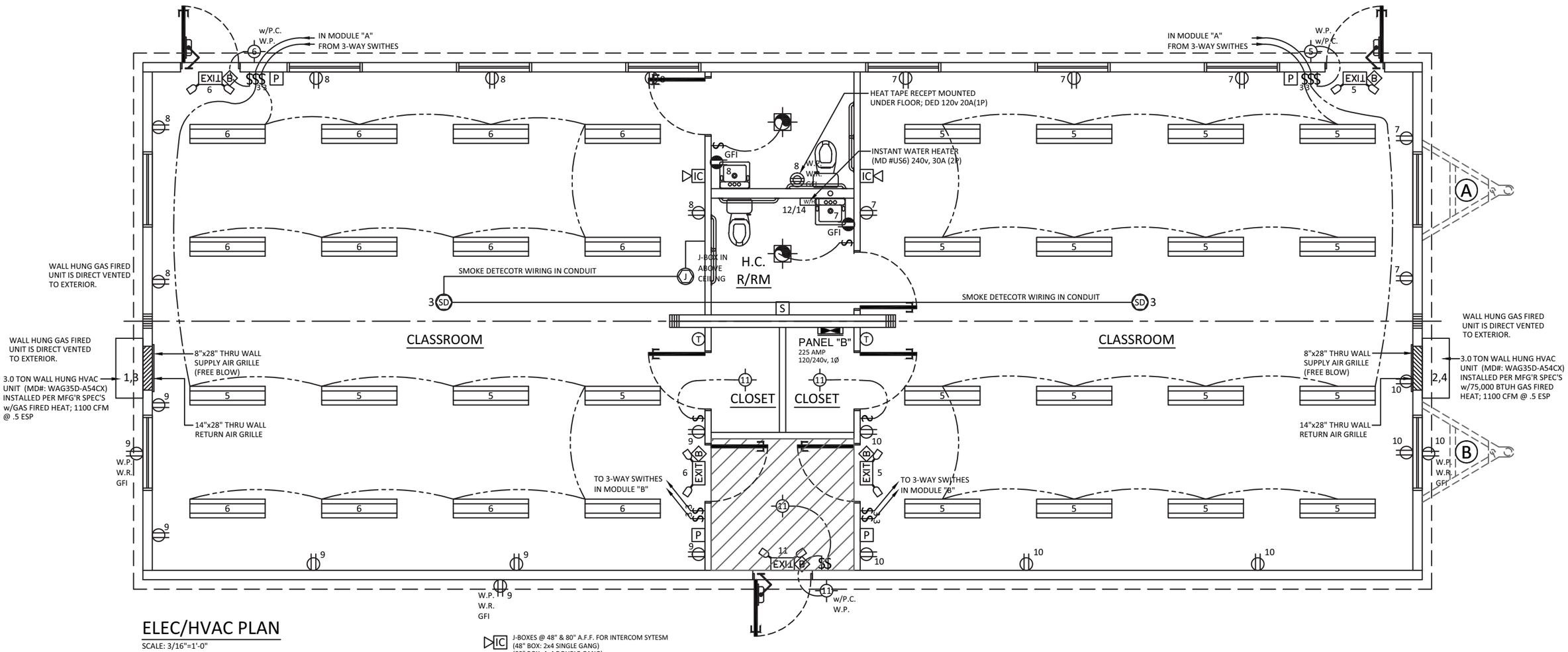

ELEC/HVAC PLAN

SCALE: 3/16"=1'-0"

J-BOXES @ 48" & 80" A.F.F. FOR INTERCOM SYTESM
(48" BOX: 2x4 SINGLE GANG)
(80" BOX: 4x4 DOUBLE GANG)

ELECTRICAL SYMBOLS

- DUPLEX RECEPTACLE @ 16" A.F.F.
- DUPLEX RECEPTACLE @ 42" A.F.F. (UNLESS NOTED)
- QUADPLEX RECEPTACLE @ 16" A.F.F. (UNLESS NOTED)
- RECPTACLE 240v @ 16" A.F.F.
- CEILING MOUNTED DUPLEX RECEPTACLE
- CEILING MOUNTED QUADPLEX RECEPTACLE
- FLOOR DUPLEX RECEPTACLE
- FLOOR QUADPLEX RECEPTACLE
- SWITCH @ 48" A.F.F.
- 3-WAY SWITCH @ 48" A.F.F.
- ELECTRICAL PANEL BOX 48" TO BOTTOM
- TELEPHONE JACK AT 16" A.F.F. (UNLESS NOTED)
- TELEPHONE JACK AT 42" A.F.F. (UNLESS NOTED)
- TELEPHONE FLOOR J-BOX
- COMPUTER JACK @ 16" A.F.F. (UNLESS NOTED)
- WEATHERPROOF PHOTOCELL
- WALL MOUNTED JUNCTION BOX 16" (UNLESS NOTED)
- CEILING MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- PROGRAMMABLE A/C THERMOSTAT @ 53" A.F.F.
- J-BOX @ 48" A.F.F. FOR PULL STATION - TO BE WIRED BACK TO HORN/STROBE (2x4 SINGLE GANG)
- J-BOXES @ 48" & 80" A.F.F. FOR PULL STATION AND HORN/STROBE (48" BOX: 2x4 SINGLE GANG) (80" BOX: 4x4 DOUBLE GANG)
- J-BOX @ 80" A.F.F. FOR STROBE ONLY (4x4 DOUBLE GANG)
- ILLUMINATED EXIT SIGN AND EMERGENCY LIGHTING COMBO w/BATTERY BACK-UP
- EXHAUST FAN-100 CFM (UNLESS NOTED)
- EXHAUST FAN & LIGHT COMBO-100 CFM/26W (UNLESS NOTED)
- 1'x4' FLUORESCENT - DIFFUSED - SURFACE MOUNTED (2 TUBE = 64w MAX.)
- INCANDESCENT SP FIXTURE (26w)
- RECESSED INCANDESCENT LIGHT FIXTURE (26w)
- WEATHERPROOF LIGHT "PORCH" (W. PER SPEC)
- WEATHERPROOF LIGHT "FLOOD" (W. PER SPEC)
- HVAC DISCONNECT

ELECTRICAL PANEL SCHEDULE PANEL "B"

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1/3 2/4	HVAC UNIT	60A(2P)	6-3 SE THHN
5,6	LIGHTS	20A	12-2 NM THHN
7-10	RECPTS	20A	12-2 NM THHN
11	LIGHTS & FANS	20A	12-2 NM THHN
12/14	DED RECEPT	30A(2P)	10-3 NM ROMEX

ELECTRICAL PANEL SIZING PANEL "B"

DESCRIPTION		KVA
.0035 kW/SF x 1870 SF x 1.25	=	8.18
30 RECEPTS @ 180 VA / 1000	=	5.40
1 WATER HEATER @ 6.5 kW	=	6.50
2 FANS @ .3 kW x 1.25	=	.75
2 HVAC @ 15.50 kW (EA.)	=	31.00
51.83 TOTAL kW		
TOTAL / 240 x 1000	= 215.96	AMPS
INSTALL 225 AMP PANEL		
120/240 V, 1Ø PHASE		

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PIN-SHI PETER LEE
No.12156
LICENSED
PROFESSIONAL ENGINEER

Nov. 11, 2015

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ELEC / HVAC PLAN

SERIAL #: 1386 A-B
OCCUP: E
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Drawing Date: 11-10-2015	Project: PORTLAND, ME
Drawn By: J.L.B.	Sheet: E/H1
Scale: 3/16"=1'-0"	5 of 6