

New Modular Classroom for **Veritas School** Newberg, Oregon

Code Compliance

Applicable Codes: OREGON:
 2019 Oregon Structural Specialty Code (Based on 2018 IBC)
 2019 Oregon Mechanical Specialty Code (Based on 2018 IMC & IFGC)
 2021 Oregon Plumbing Specialty Code (Based on 2021 UPC by IAPMO)
 2021 Oregon Electrical Specialty Code (Based 2020 NEC)
 2021 Oregon Energy Efficiency Specialty Code (Based on ASHRAE 90.1 - 2019)
 2009 ICC A117.1 Accessibility Standard

Type of Construction: VB

Description: Classroom

Occupancy: E

Floor Area: 1673 square feet

Gross Wall Area: 1538 square feet

Occupant Load: 83 (Education 1660 Net SF/20 SF/P)

Job Number: 20143

Climate Zone: Oregon
4c

Project Information

Site Address: Veritas School
26288 NE Bell Rd.
Newberg, OR 97132

Dealer: Pacific Mobile
13806 45th Ave. NE
Marysville, WA 98271

Builder: Blazer Industries, Inc.
PO Box 489
Aumsville, OR 97325
Contact: Jamie Holmes
Phone: (503) 749-1900
Fax: (503) 749-3969
E-mail: james@blazerind.com

Index to Drawing

T-1 Title Sheet

A-0.1 Door & Window Schedule

A-1 Floor Plan

A-2 Section A-A, Material List & Fastening Schedule

A-2.1 Section B-B

A-3 Exterior Elevations

A-4 Details

A-5 Reflected Ceiling and Details

M-1 Mechanical Plan

M-2 Mechanical Sections

M-3 Mechanical Schedules & Notes

E-1 Electrical Power Plan

E-2 Electrical Lighting Plan

E-3 Electrical Schedules and Notes

Design Loads

Roof 25 psf (Snow)

Wind 120 mph Exposure "B" (V)

Floor 40 psf or 1000 lb

Seismic Site Class D, S_{DS}=1.200, S_{D1}=0.680

Risk Category II

N.L.E.A.'s

1. On site electrical service grounding, electrode system and bonding.
2. Required arc flash labeling per NEC 110.16.
3. Available fault current field markings per NEC 110.24.
4. Fire alarm plans, hydraulic and seismic calculations and manufacturer's specifications shall be reviewed for code compliance by State BCD. Section 2020 OAR 918-674-0000, 918-674-0015, 918-674-0015(5) and 918-674-0065.
5. Site installed gutters & downspouts or roof drains as applicable.
6. The installation of any interior equipment and/or appliances in this modular unit shall be completed under permit and inspection through the local AHJ.

General Notes

- The Structural Design Details Herein are Specific to the Building Size and Module Configuration Shown on the Floor Plan of These Drawings.
- No Authorization is Given or Implied for use of the Modules in the Initial or Subsequent Installation Which Results in a Building Size or Installed Module Configuration Different Than Shown on These Drawings.
- This Building will be sited a minimum of 10 feet from all Property Lines and 10 feet from any assumed Property Lines between existing structures on this site.
- Site contractor bears responsibility for providing an accessible route to this structure in conformance with applicable building code and accessibility standards.
- Project close out documentation including, but not limited to, applicable calculations, energy compliance reports, fenestration NFRC rating certificates and O & M manuals is required to be delivered to the building owner within 90 days of their receipt of the certificate of occupancy.



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3-29-2022	PRE-SUBMITTAL REVIEW - JH	TAS			28 x 64			File Copy: Drawn By: TAS Issue Date: 3-31-2022	
DATE	REVISION	BY	OR GOLD						

	STYLE	QTY.	SIZE	DESCRIPTION	LOCK	REMARKS
DOORS	①	2	3' 6"	INSULATED GALV. STEEL w/ WELDED STEEL JAMB AND WEATHERSTRIPPING DEFAULT .37 U-FACTOR	PANIC	SS BBR'G NRP HINGES TEXTURED PAINT FINISH CLOSER
	②	1	3' 6"	INSULATED GALV. STEEL w/ WELDED STEEL JAMB AND WEATHERSTRIPPING DEFAULT .37 U-FACTOR	KEYED LEVER	SS BBR'G NRP HINGES TEXTURED PAINT FINISH CLOSER

NOTES:

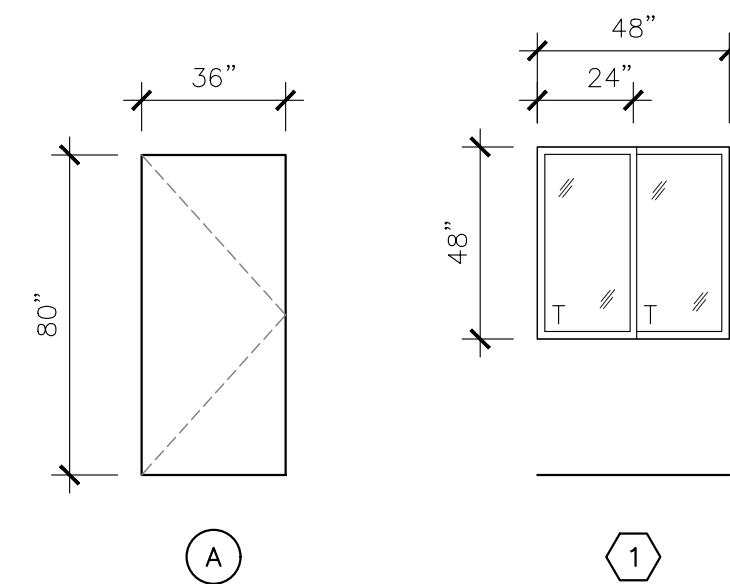
- DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. [ICC A117.1-2009 SECTION 404.2.6]
- THE VERTICAL FENESTRATION AREA, NOT INCLUDING OPAQUE DOORS, SHALL NOT EXCEED 40% OF THE GROSS ABOVE GRADE WALL AREA. [2021 OEESC SECTION 5.5.4.2.1 AND TABLES 5.5-4 AND 5.5-5]
- FENESTRATION AND DOORS SHALL HAVE AN AIR LEAKAGE RATE COMPLYING WITH OEESC TABLE 5.8.3.2.
- DOOR HARDWARE TO HAVE SATIN CHROME/ALUMINUM TYPE FINISH

WINDOWS

	STYLE	QTY.	SIZE	DESCRIPTION
	①	6	48 x 48	HORIZONTAL SLIDER - DUAL GLAZE - LOW "E" MILGARD- WHITE VINYL FINISH-ARGON-TEMPERED NFRC 0.25 U-FACTOR, SHGC = 0.30, VT=0.56

NOTES:

- GALVANIZED FLASHING INSTALLED UNDER EXTERIOR TRIM ABOVE WINDOWS



NOTE: DOOR SWINGS MAY BE MIRRORED. REFER TO FLOOR PLAN

"EXIT" SIGN

18"x18" CLEAR
EXIT

CODE HEIGHT TO FINISHED FLOOR

DOOR HARDWARE LOCATION

9" MAX.

CODE REQUIRED 48" MIN-60" MAX AFF TO BASELINE BRAILLE CELLS

BLAZER STANDARD 60" TO TOP

DOOR SIGNAGE

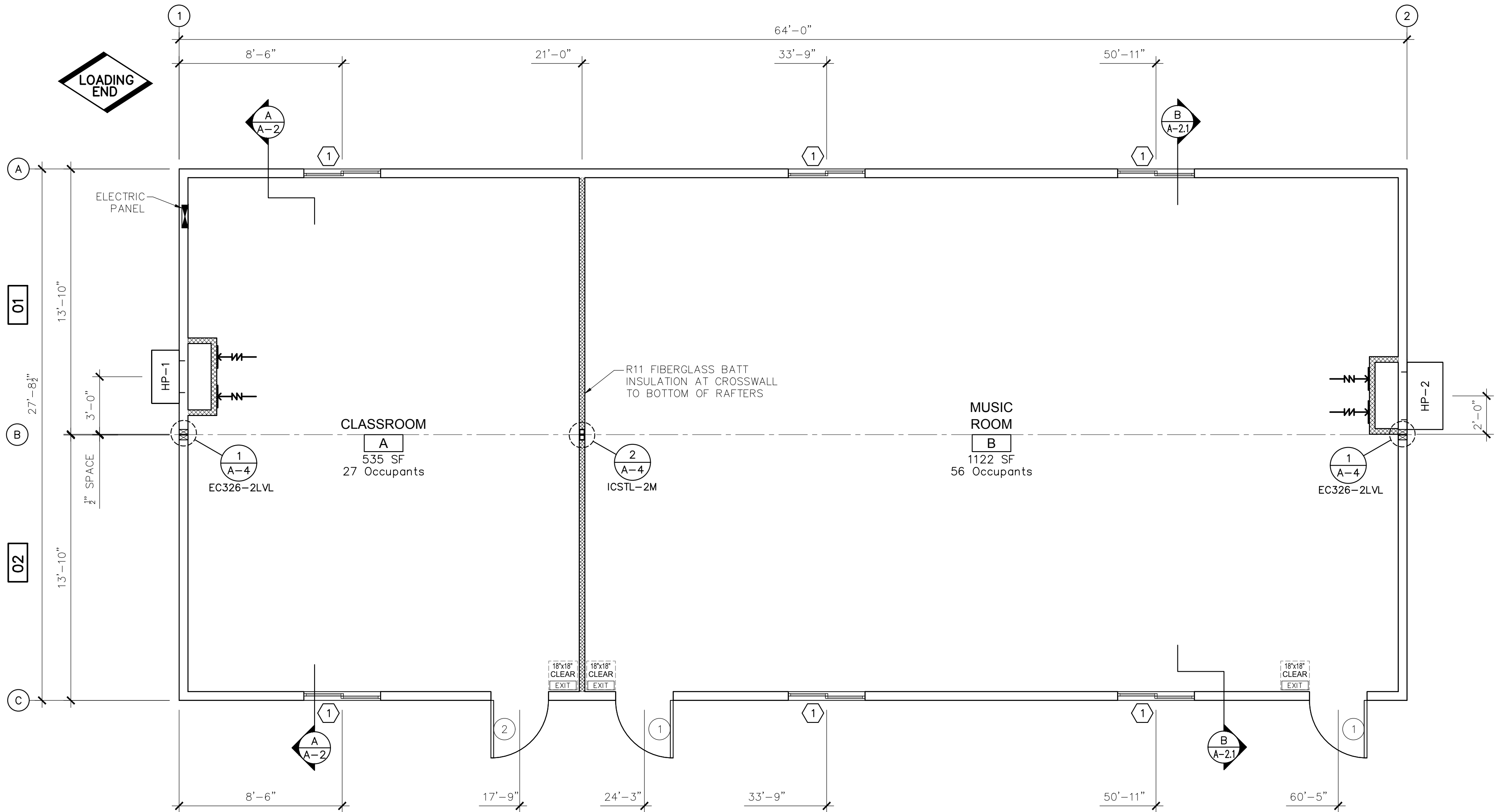
SIGN CENTERED IN CLEAR FLOOR SPACE

18"x18" CLEAR FLOOR SPACE (CAN OVERLAP DOOR OPENING ON PUSH SIDE OF DOOR IF LIMITED WALL SPACE)

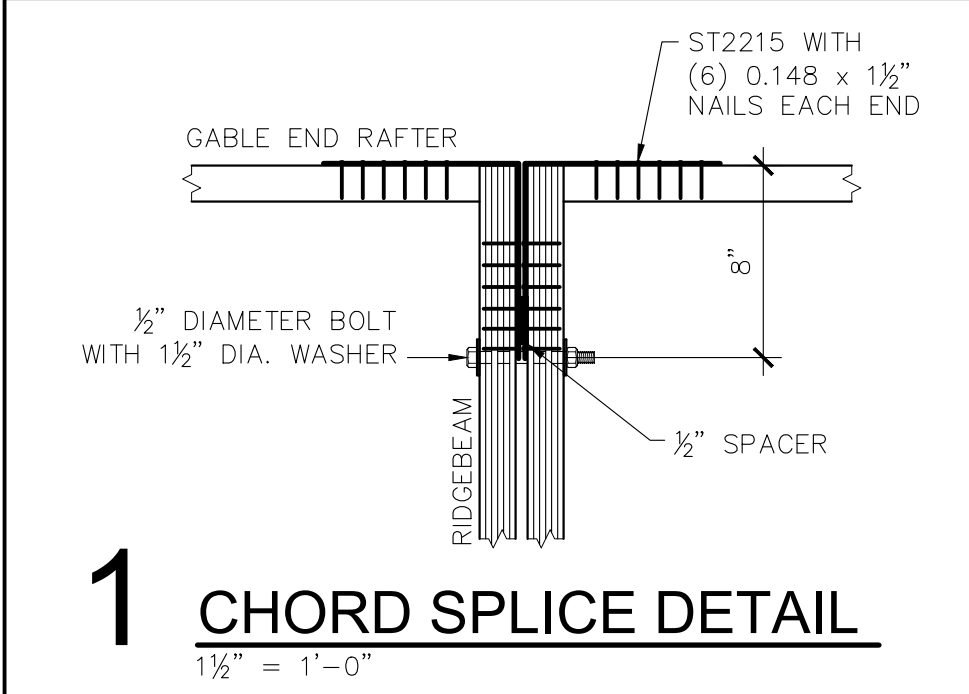
SIGNS AT DOORS: ICC / ANSI A117.1 - 2009 703

TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1219 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES (1524 mm) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

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FLOOR PLAN
SCALE: 1/4" = 1'-0"



NOTES:
- THE TOP PLATES OF THE INTERIOR WALLS CAN SPAN A MAXIMUM OF 10'-0" BEFORE REQUIRING BRACING TO THE ROOF STRUCTURE OR AN INTERSECTING WALL.

04/12/2022
REGISTERED PROFESSIONAL ENGINEER
19300PE
OREGON
Rock M. Shetler
ROCK M. SHETLER
JULY 15, 1991
EXPIRES: 6/30/2022

DATE	REVISION	BY
3-7-2022	PRELIMINARY REVIEW - BM	TAS
3-28-2022	ENGINEERING - RMS	TAS
3-29-2022	PRE-SUBMITTAL REVIEW - JH	TAS

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MODULAR
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OR GOLD

CLASSROOM for:
VERITAS SCHOOL
Pacific Mobile

Newberg, Oregon

Approved for Const:	Job No: 20143
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FASTENING SCHEDULE

MATERIAL LIST

WALLS:

PLATE-TO-STUD	0.131 x 3" NAILS (3 PER 2x6, 2 PER 2x4)
SHEETROCK-TO-STUD @ INTERIOR	0.091 x 2 1/4" SHEETROCK NAILS @ 16"oc EDGE AND CONSTRUCTION ADHESIVE IN FIELD
BOTTOM PLATE-TO-FLOOR	0.131 x 3" NAILS @ 8"oc (SENCO KC27 OR EQUAL)
PANEL SIDING-TO-STUD AT SIDEWALL	0.113x2 3/8" NAILS @ 6" EDGE, 12" IN FIELD (EXCEPT USE 4"oc @ TOP & BOTTOM). ALL EDGES SUPPORTED BY FRAMING OR BLOCKING.
PANEL SIDING-TO-STUD AT ENDWALL	SEE ENDWALL FASTENING NOTES ON ELEVATIONS
THREE STUD CORNER CONNECTION	0.131 x 3" NAILS @ 12" (SENCO KC27 OR EQUAL)

AIR BARRIER NOTES:

THESE KEY AREAS SHALL BE SEALED BY CAULKING, GASKETS, TAPE OR WEATHER-STRIPPING:

- JOINTS AROUND FENESTRATION (WINDOWS AND DOOR FRAMES): USE APPROPRIATELY SIZED BACKER ROD WITH MINIMUM 2" LAP AT ENDS.
- JUNCTIONS BETWEEN WALLS AT:
 - BUILDING CORNERS: USE CAULKING
 - STRUCTURAL FLOORS: USE SILL SEAL OR CAULKING
 - ROOFS (AT RIM): USE SILL SEAL OR CAULKING
- PENETRATIONS OF UTILITY SERVICES THRU THE AIR BARRIER @ ROOFS, WALLS, AND FLOORS: USE CAULKING, SPRAY FOAM, OR AIR BARRIER TAPE.
- BUILDING ASSEMBLIES USED AS DUCTS OR PLENUMS: USE BACKER ROD, CAULK, SPRAY FOAM OR AIR BARRIER TAPE.
- JOINTS, SEAMS, AND PENETRATIONS OF VAPOR RETARDANTS: USE CAULK OR APPROVED TAPE.
- RECESSED LIGHTING FIXTURES: USE CAULK OR SPRAY FOAM

FLOOR:

2x8 FLOOR JOIST-TO-RIM	MIN. OF (4) 0.131 x 3" NAILS (SENCO KC27 OR EQUAL)
CLASS "A" BOTTOM BOARD-TO-JOIST	16ga. x 3/8" WIDE CROWN @ 12" MAX. EDGES ONLY
FLOOR DECKING-TO-2x JOIST	0.113" x 2 3/8" RING SHANK @ 6" EDGE, 12" IN FIELD (SENCO GE-24). USE CONSTRUCTION ADHESIVE (AFG01) ON JOISTS

ROOF:

RIM-TO-RAFTERS	MIN. OF (4) 0.131 x 3" NAILS (SENCO KC27 OR EQUAL)
FURRING-TO-RAFTERS	MIN. (4) M20 2 x 3 (MIN.) PLATES EACH SIDE
ROOF RIM-TO-TOP PLATE	0.131 x 3" NAILS @ 8" oc. (SENCO KC27 OR EQUAL)
LEDGER-TO-RIDGEBEAM	0.131 x 3" NAILS @ 3" oc & 3 @ BUTT JOINTS (SENCO KC27 OR EQUAL)
RAFTER-TO-RIDGEBEAM	(4) 0.131 x 3" NAILS (SENCO KC27 OR EQUAL)
SHEATHING-TO-ROOF MEMBERS	16ga. x 1 3/4" STAPLES @ 6" EDGE, 12" IN FIELD (SENCO N-19) NOTE: SHEATHING TO BE INSTALLED PERPENDICULAR TO RAFTERS. OFFSET SHEATHING 4 ft. BLOCK EDGES OF ANY PIECES LESS THAN 24".

MARRIAGE LINE CONNECTION:

NOTE: ALL MARRIAGE LINES (DEFINED AS THE SPACE BETWEEN ADJOINING MODULES) MUST BE INSULATED AT THE ROOF, FLOOR AND WALLS ON SITE.

RIDGEBEAMS	1/2" BOLTS w/ 1 1/2" DIA. WASHERS @ 6'-0" oc AND 8" FROM EACH END (MINIMUM 2" EDGE DISTANCE)
RIM JOISTS	1/2" BOLTS w/ 1 1/2" DIA. WASHERS @ 4'-0" oc AND 8" FROM EACH END (MINIMUM 2" EDGE DISTANCE)

ROOF:

ROOFING.....ARCHITECTURAL SHINGLES OVER 2 LAYERS NON-PERF. 15# FELT APPLIED SHINGLE STYLE -HIGH WIND APPLICATION-

NOTE: "HIGH TEMP" SELF-ADHERED ROOFING UNDERLAYMENT UNDER SHINGLES FOR 2'-0" FROM EACH EAVE TOWARD RIDGE, TYPICAL @ BOTH EAVES -DRIP EDGE SHALL BE PROVIDED AT EAVES AND RAKE EDGES OF SHINGLE ROOFS (IBC 1507.2.9.3).

SHEATHING.....3/8" APA RATED (2 1/2")

FRAMING.....2x10 DF #2 RAFTERS @ 24"oc WITH 2x INSULATION FURRING BELOW

RIDGEBEAM.....DOUBLE 1 1/2" x 24" LVL 2.0E (CONTINUOUS)

LEDGERS.....2x4 TAPER CUT

RIMS.....2x6 CONTINUOUS LVL 2.0E w/ 2x4 VENT BLOCKING ABOVE

INSULATION.....R38 CELLULOSE BLOW-IN OVER CLASS 'A' MATERIAL (AIR BARRIER COMPONENT)
NOTE: MIN. 1" AIR SPACE REQUIRED AT ROOF SHEATHING. USE BAFFLES IF REQUIRED FOR VENT CLEARANCE.

CEILING.....HARD-LID AND SUSPENDED T-BAR (PER IBC 808.1) SEE PLAN

VENTING.....EAVE AND RIDGE

DRAINAGE.....GUTTERS & DOWNSPOUTS PROVIDED & INSTALLED ONSITE BY OTHERS

WALLS:

SIDING......76 SERIES LP SMARTSIDE PANEL WITH GROOVES @ 8"oc, USE 4'x9' SHEETS
NOTE: NO HORIZONTAL BREAKS IN SIDING EXCEPT AT ENDWALLS

MOISTURE.....WRAP LOWER 12" OF BUILDING WITH MOISTSTOP - PROTECTION WRAP BUILDING w/BUILDING WRAP

FASCIA......1x6

TRIM......1x4 AT CORNERS, WINDOWS, DOORS AND MODLINE
NOTE: 2"x2" GALV. FLASHING INSTALLED OVER SIDING AND UNDER CORNER TRIM

FRAMING.....EXT: 2x6 DF#3 or BETTER @ 16"oc INT: 2x4 DF @ 16"oc

TOP PLATE.....2x CONTINUOUS (DF#2 OR LVL 2.0E)

BOTTOM PLATE.....2x DF

INSULATION.....EXT: R-21 UNFACED FIBERGLASS BATTS INT: R-11 INSULATION BATTS @ CROSSWALL

INTERIOR FINISH.....3/8" VINYLWRAP SHEETROCK
NOTE: INSTALL GYPSUM ON GABLE ENDS ABOVE WALL COVER

SKIRTING.....PREP ONLY - SKIRTING PROVIDED AND INSTALLED ONSITE BY OTHERS

FLOOR:

COVERING.....VCT - MUSIC ROOM ONLY CLASSROOM - ON SITE BY OTHERS

DECKING.....1st: 2 3/8" A.P.A. RATED STURD-I-FLOOR (AIR BARRIER COMPONENT) 2nd: 1/4" U-PLY X - MUSIC ROOM ONLY

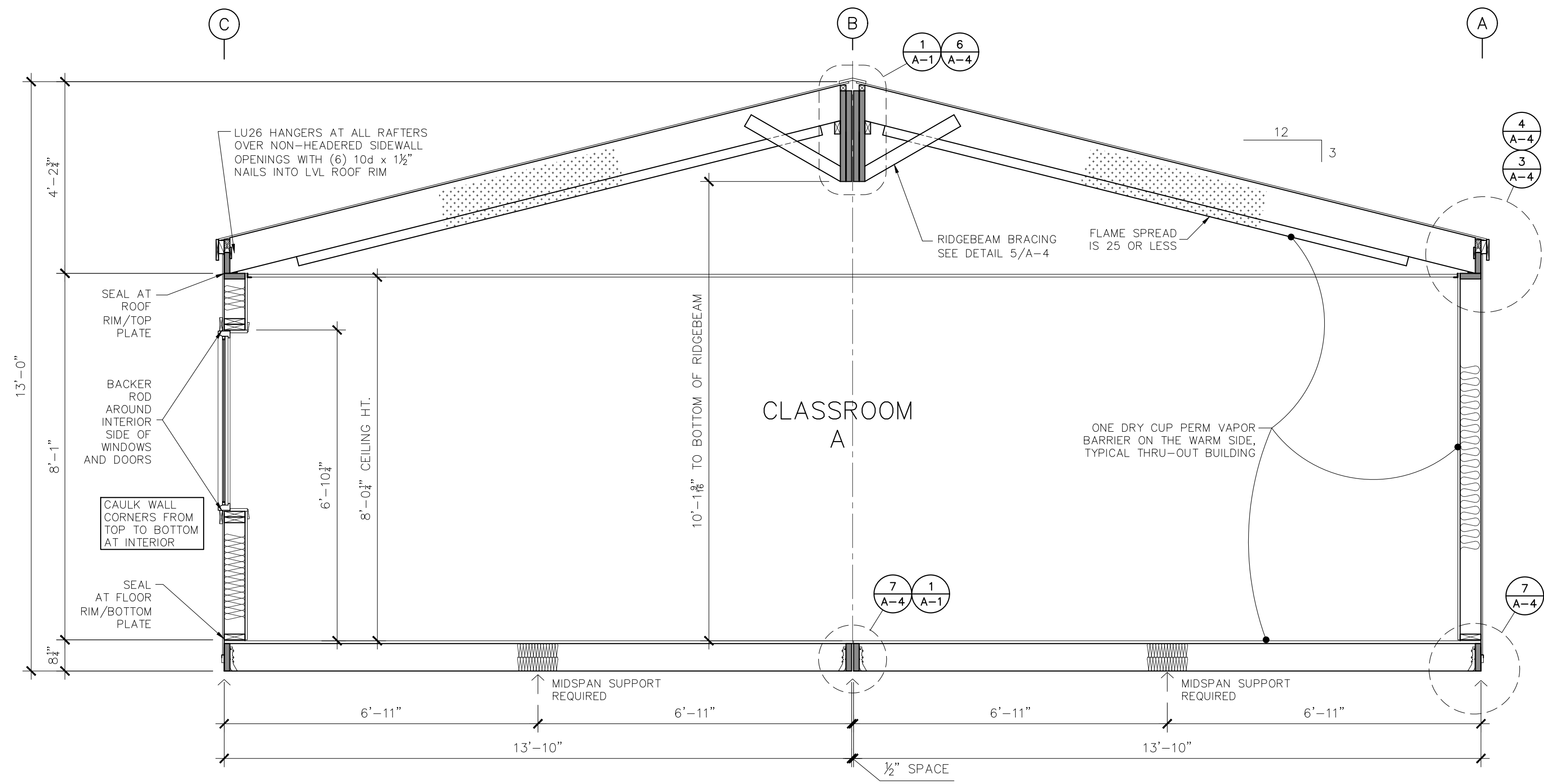
FRAMING.....2x8 DF#2 JOISTS @ 16"oc

RIMS.....2x8 LVL 2.0E (CONTINUOUS)

JOIST HANGERS.....ON ALL RIMS

INSULATION.....R-30 (USE TWO LAYERS R15 FIBERGLASS)

BOTTOM COVER.....CLASS "A"

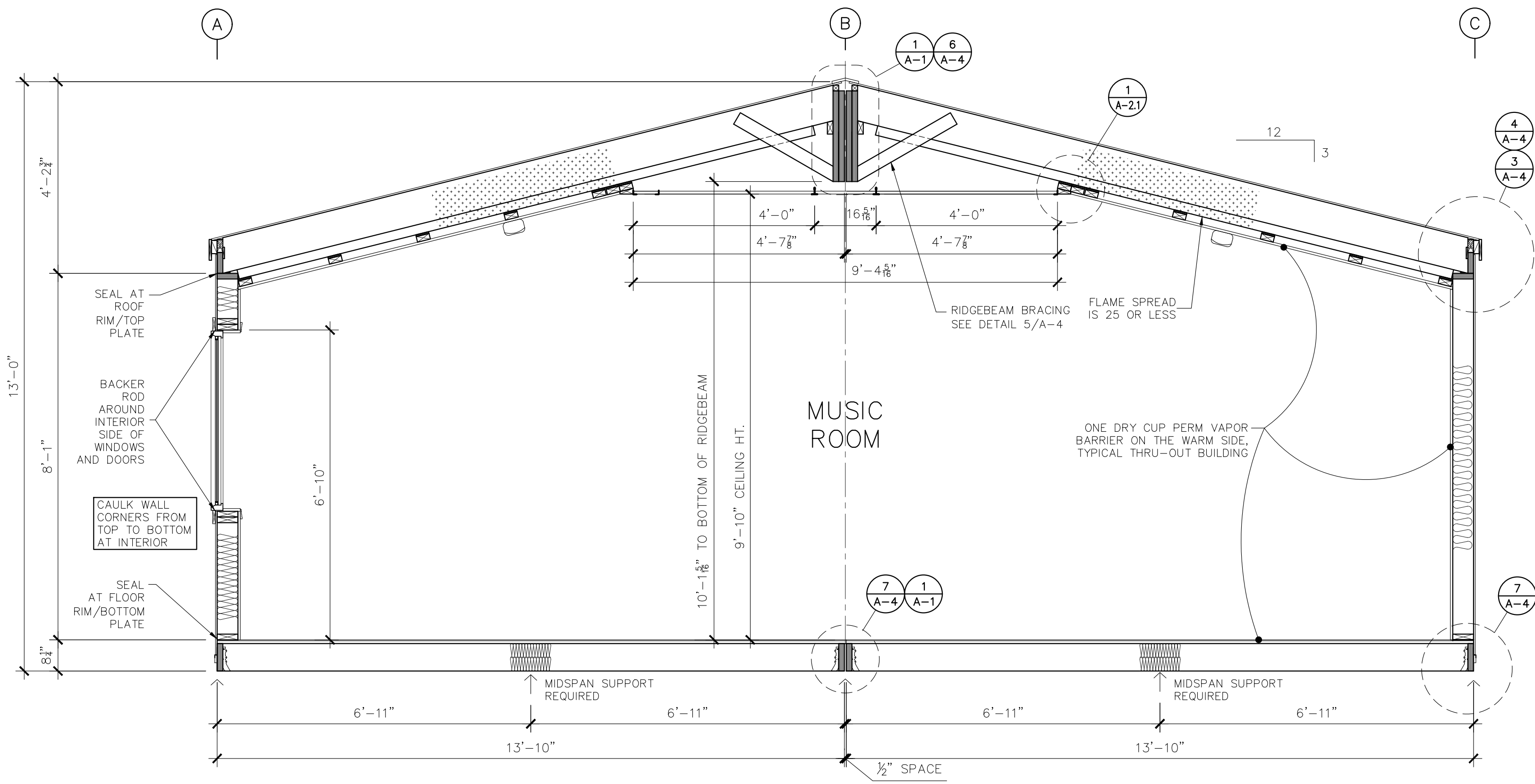
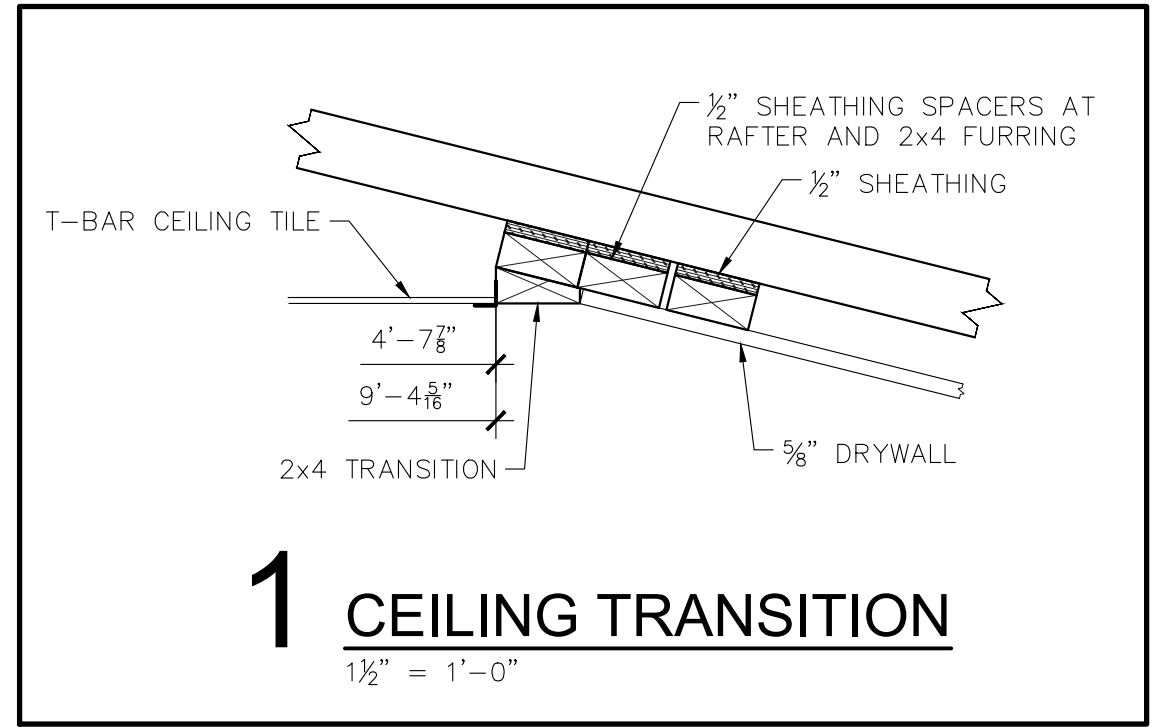


SECTION - A-A
SCALE: 1/2" = 1'-0"

04/12/2022
REGISTERED PROFESSIONAL ENGINEER
19300PE
ROCK M. SHETLER
JULY 15, 1991
OREGON
EXPIRES: 6/30/2022

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SECTION - B-B
SCALE: 1/2" = 1'-0"

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 REGISTERED PROFESSIONAL ENGINEER
 19300PE
 OREGON
Rock M. Shetler
 JULY 15, 1991
 ROCK M. SHETLER
 EXPIRES: 6/30/2022

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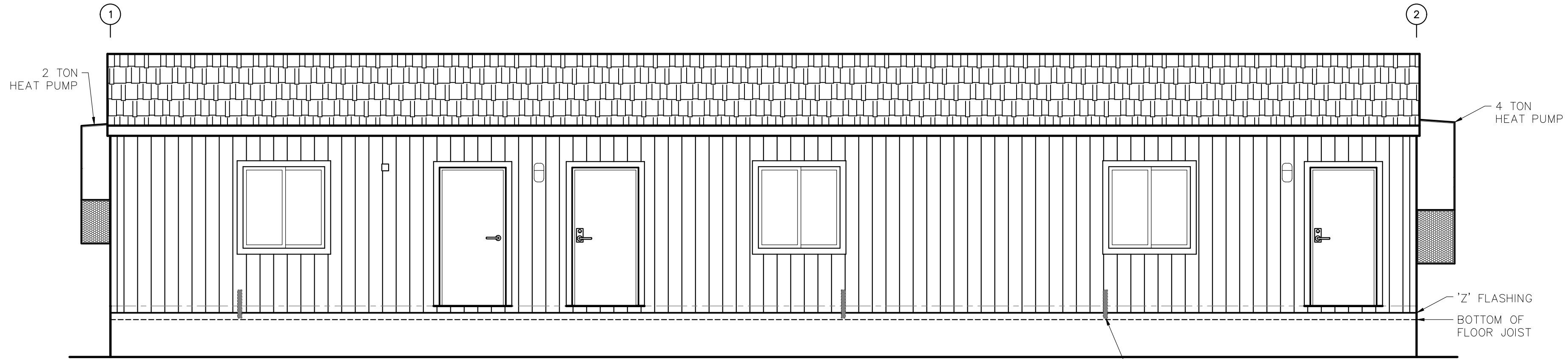
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CLASSROOM for:
VERITAS SCHOOL
Pacific Mobile

Approved for Const:	Job No: 20143
File Copy:	
Drawn By: TAS	
Issue Date: 3-28-2022	

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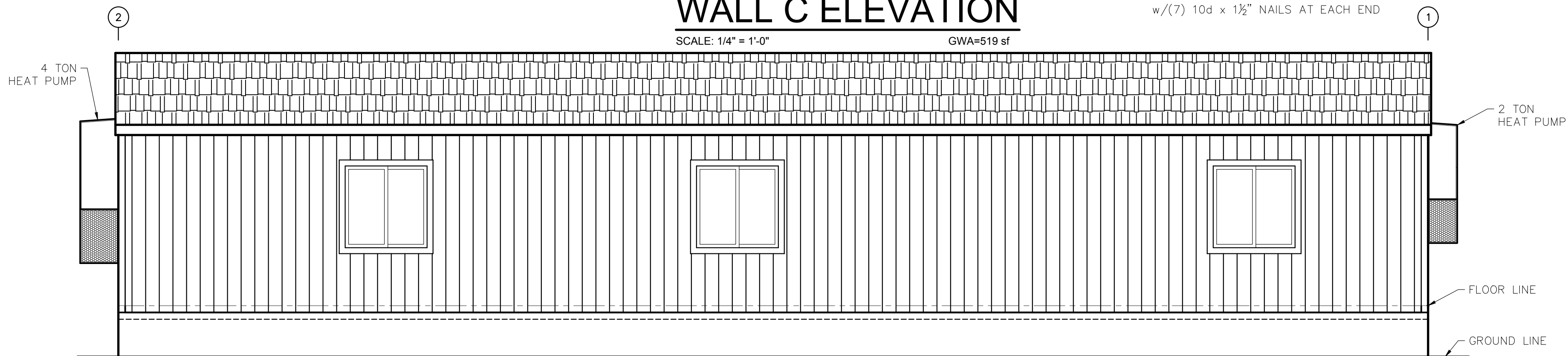
Newberg, Oregon



WALL C ELEVATION

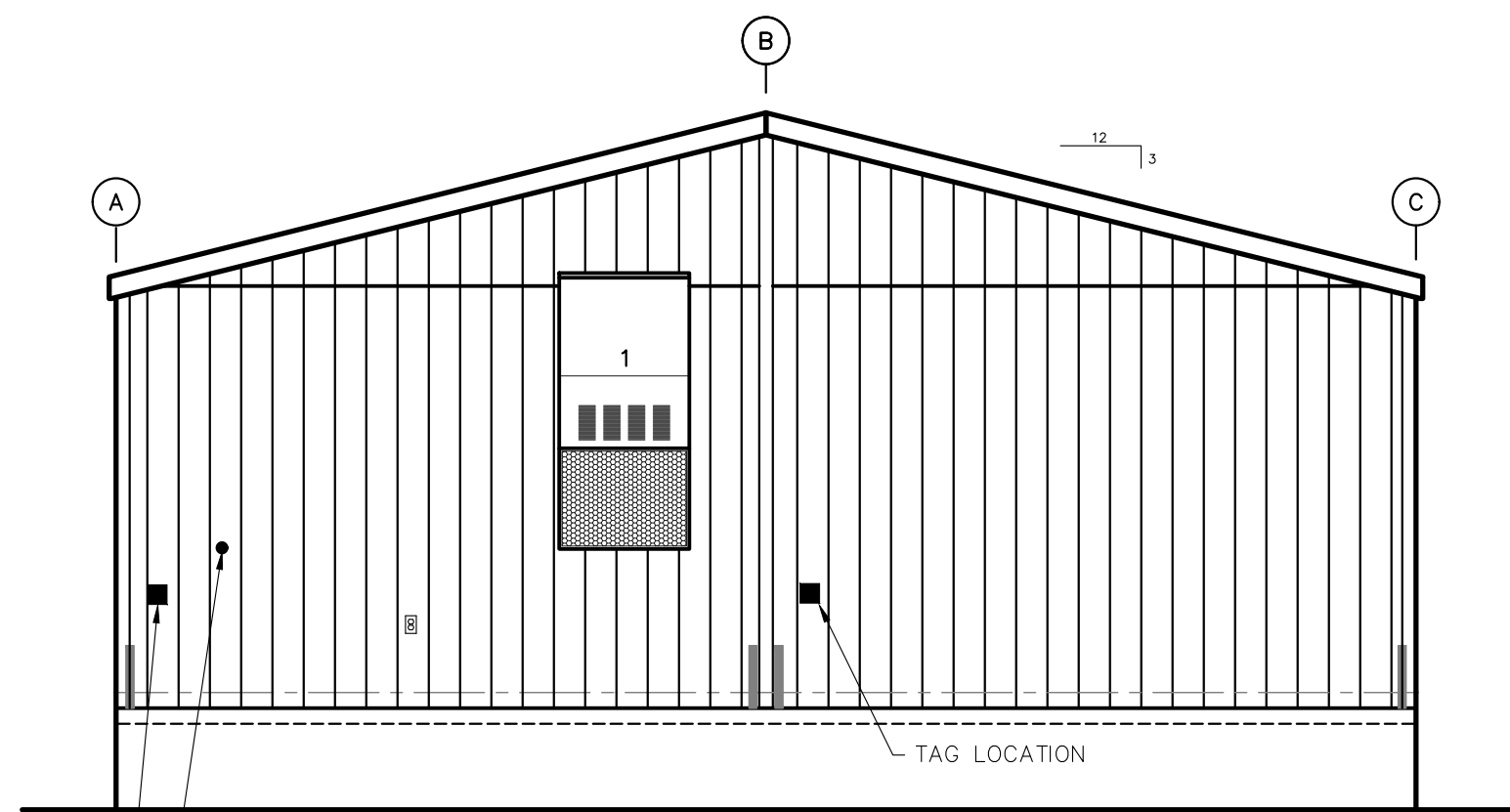
SCALE: 1/4" = 1'-0" GWA=519 sf

ST2215 STRAP WHERE SHOWN
w/(7) 10d x 1 1/2" NAILS AT EACH END



WALL A ELEVATION

SCALE: 1/4" = 1'-0" GWA=519 sf



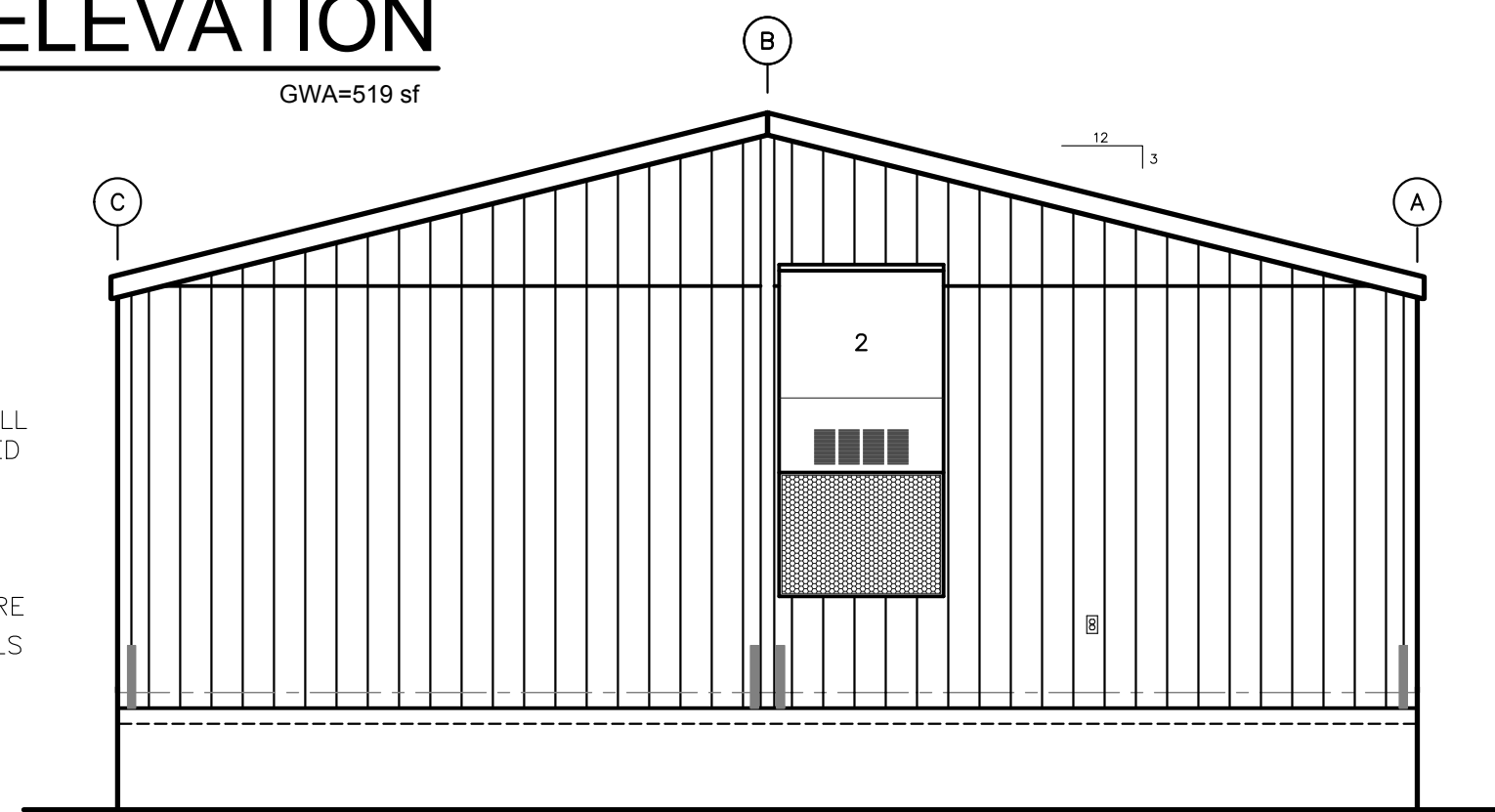
WALL 1 ELEVATION

SCALE: 1/4" = 1'-0" GWA=250 sf

ENDWALL FASTENING:

1. INSTALL PANEL SIDING WITH ALL EDGES SUPPORTED AND FASTENED WITH 0.113 x 2 3/8" NAILS @ 6"oc EDGE, 12"oc FIELD, 4"oc TOP & BOTTOM

2. INSTALL ST2215 STRAPS WHERE SHOWN WITH (8) 10d x 1 1/2" NAILS EACH END OF EACH STRAP



WALL 2 ELEVATION

SCALE: 1/4" = 1'-0" GWA=250 sf



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A-3

Newberg, Oregon

RIDGEBEAM
DOUBLE CONT. 1 1/2" LVL

EXTEND ONE STUD UP ALONG
RIDGEBEAM AND FASTEN WITH
(6) 0.131" x 3" NAILS OR EQUAL

STRAP
SIMPSON ST2215 OR EQUAL.
USE (7) 0.148 x 1 1/2" NAILS
EACH END OF STRAP

END COLUMN

USE TRIPLE 2x6 DF #2.
FASTEN STUDS TOGETHER WITH
DOUBLE ROW OF 0.131" x 3"
NAILS OR EQUAL @ 8"oc.
NAILS MAY BE ANGLED SLIGHTLY TO
PREVENT NAIL PENETRATION THRU
NEXT COLUMN STUD

ADD TIGHT FIT 2x6 BLOCKING
TO NEXT STUD AT WALL THIRD POINTS

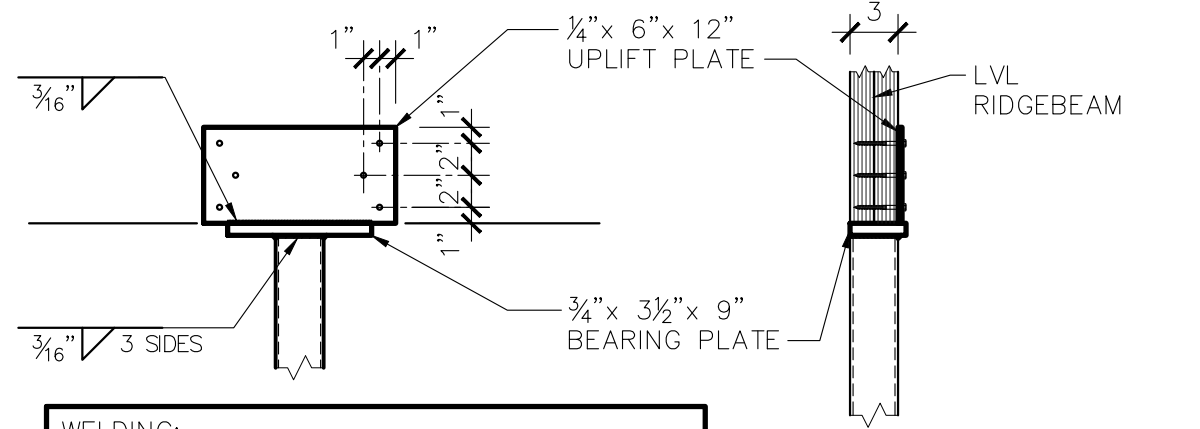
STRAP
SIMPSON ST2215 OR EQUAL
USE (7) 0.148 x 1 1/2" NAILS
EACH END OF STRAP

RIM JOIST
1 1/2" CONT. LVL

ADD TIGHT FIT BLOCKING UNDER
COLUMN FOR FULL BEARING

1 EC326-2LVL - END COLUMN DETAIL - DBL LVL

1" = 1'-0"



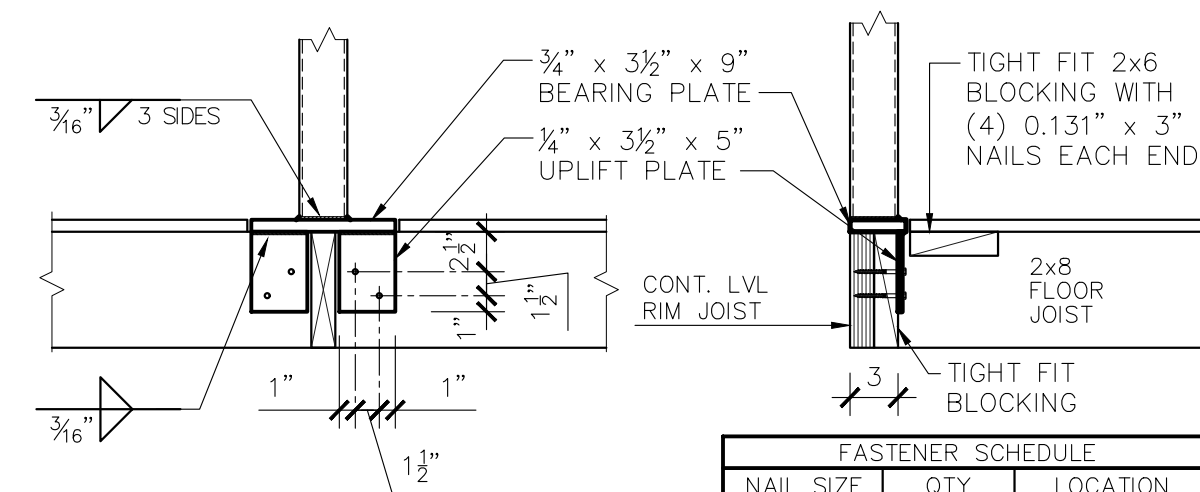
WELDING:
G.M.A.W. - AWS A5.18
F.C.A.W. - AWS A5.20

ALL WELDS TO BE SINGLE PASS
FILLET BY CERTIFIED WELDER TO
A.W.S. D1.1 CODE.

ASTM A500 GRADE C STEEL TUBE
ASTM A36 STEEL PLATE

(6) SIMPSON SDS1/4x3" SCREWS (TOP)
(4) SIMPSON SDS1/4x2 1/2" SCREWS (BOTTOM)
(DRILL 3/16" HOLES)

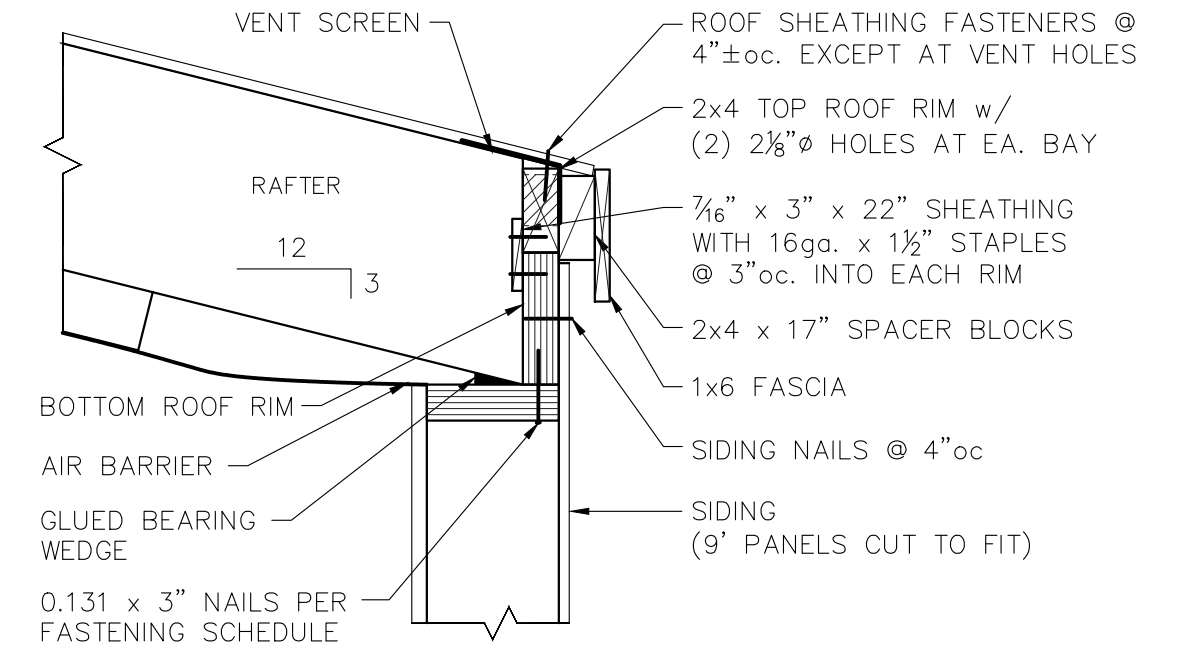
HSS3x3x3/16 COLUMN



FASTENER SCHEDULE		
NAIL SIZE	QTY	LOCATION
0.131" x 3"	5	EACH END
0.131" x 3"	2 ROWS AT 4"oc.	TO RIM

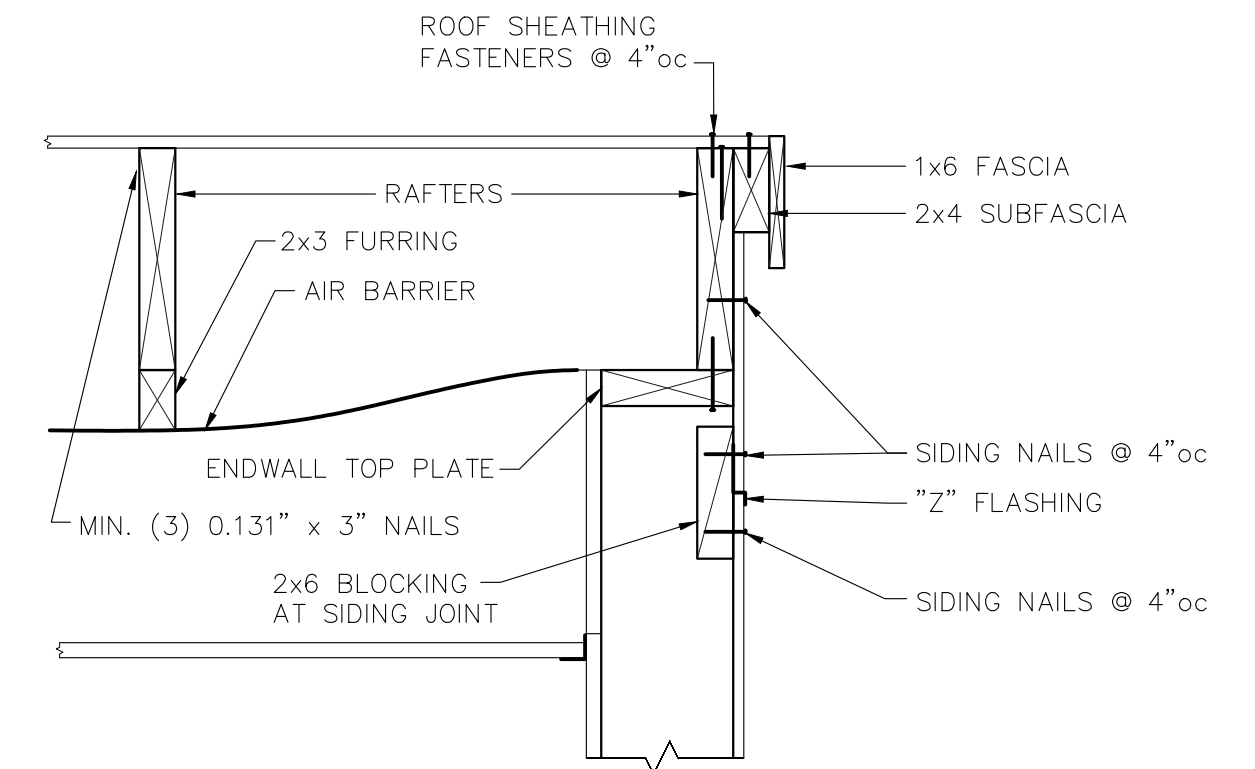
2 ICSTL-2M: INTERIOR COLUMN DETAIL- STEEL

1" = 1'-0"



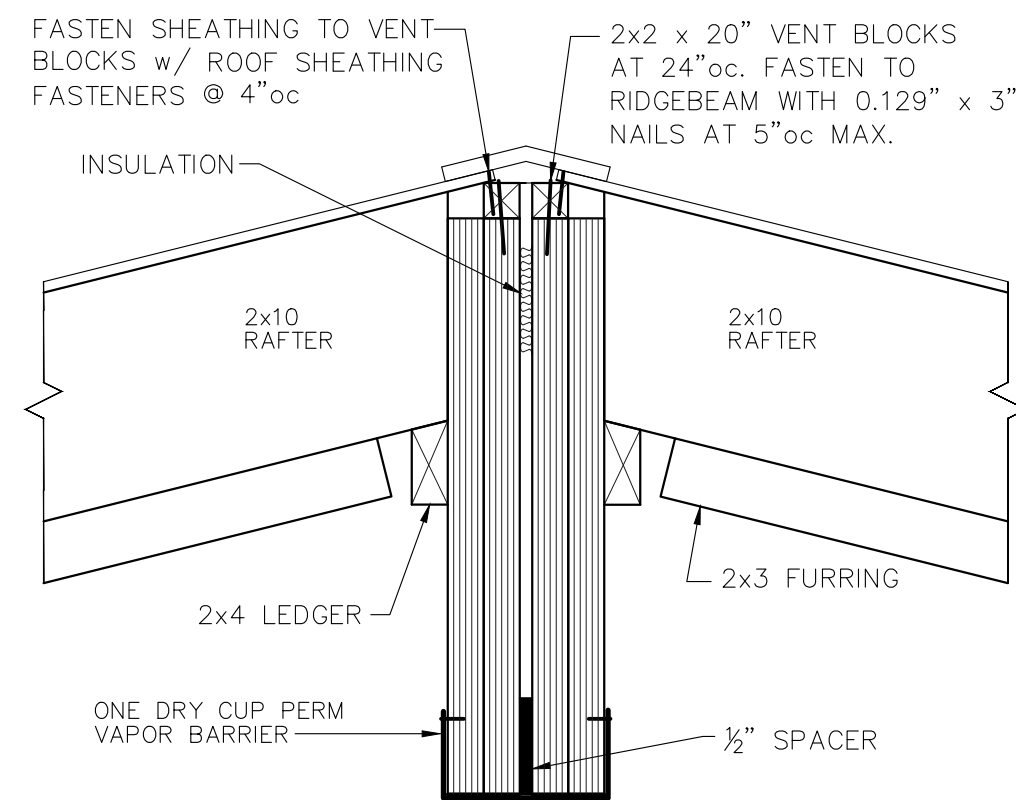
3 EAVE DETAIL

1 1/2" = 1'-0"



4 ENDWALL ROOF DETAIL

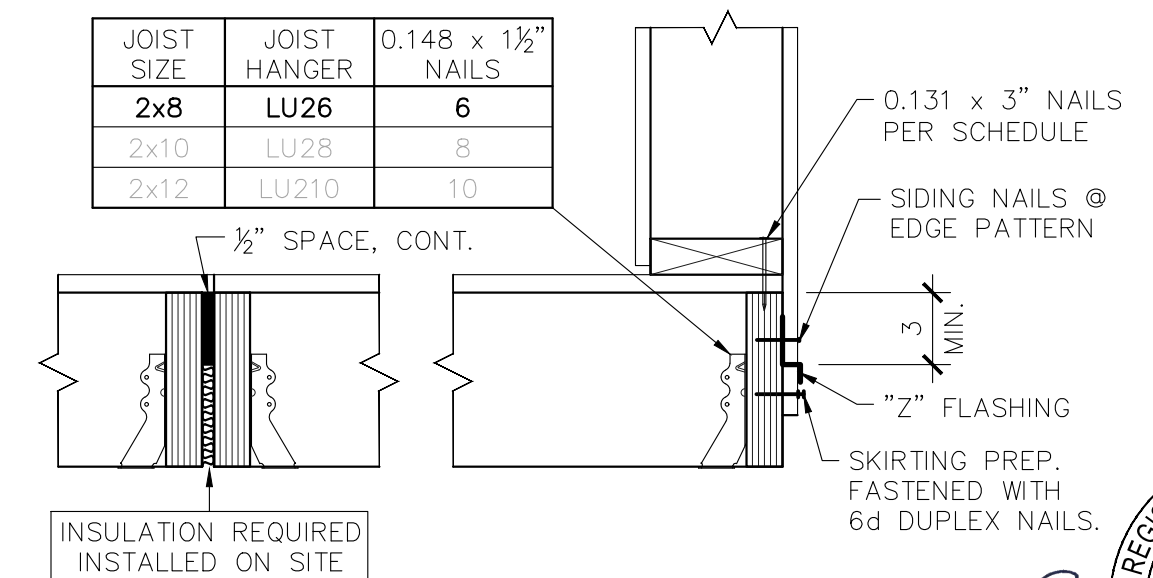
1 1/2" = 1'-0"



SITE WORK:
1. INSTALL RIDGEVENT WITH 1" GALV. SCREWS AT 12"oc. EACH SIDE.
2. INSTALL INSULATION AT MARRIAGE LINE.
3. INSTALL VAPOR BARRIER ACROSS MARRIAGE LINE, 2 MIL. MIN. (CLOSE-UP PLASTIC SUPPLIED WITH BUILDING MAY BE USED).

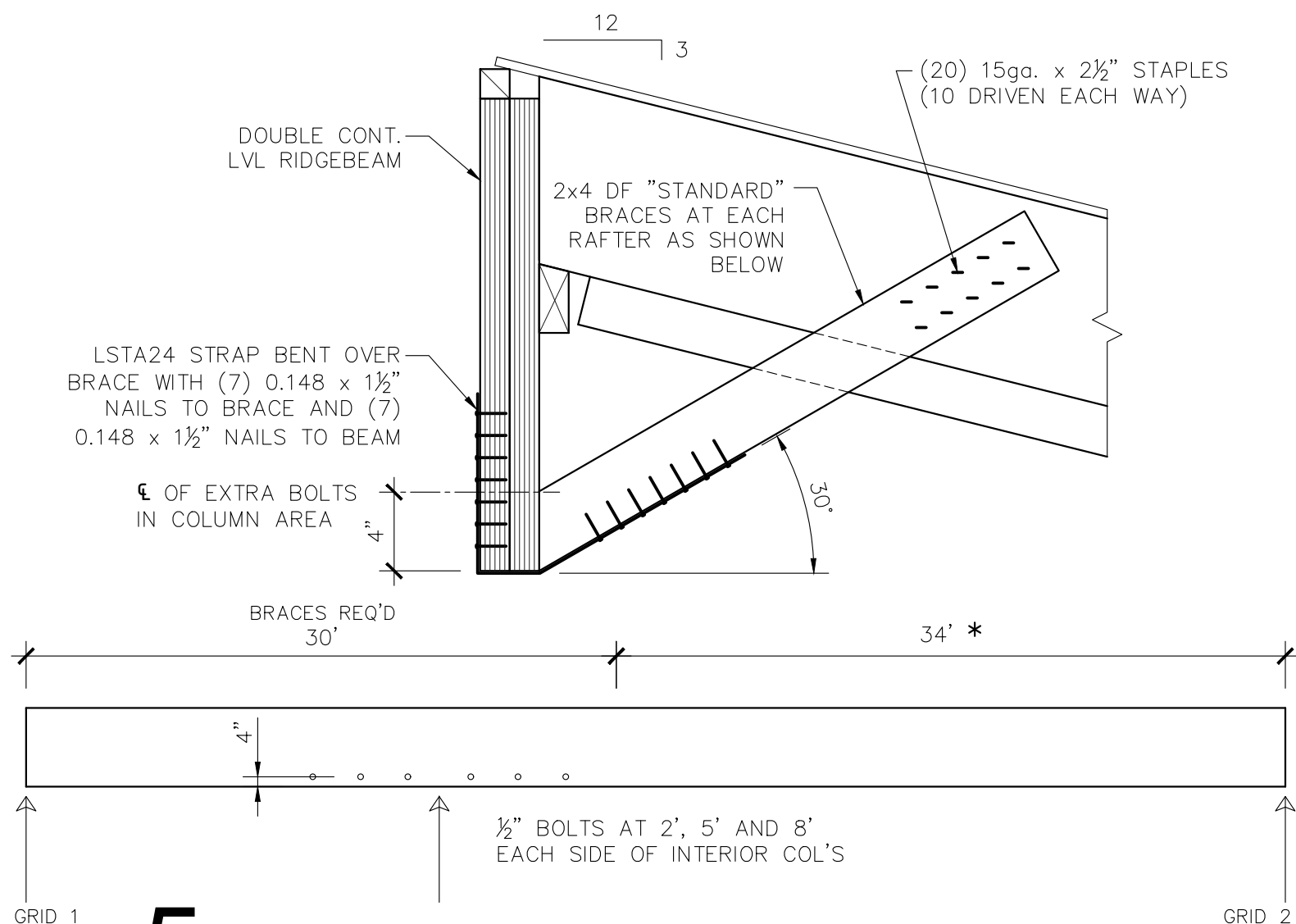
6 RIDGE DETAIL

1 1/2" = 1'-0"



7 FLOOR DETAIL

1 1/2" = 1'-0"



5 RIDGEBEAM BRACING DETAIL- 24"

1 1/2" = 1'-0"

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DATE	REVISION	BY

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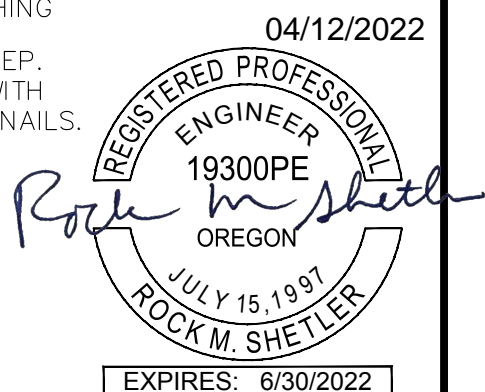
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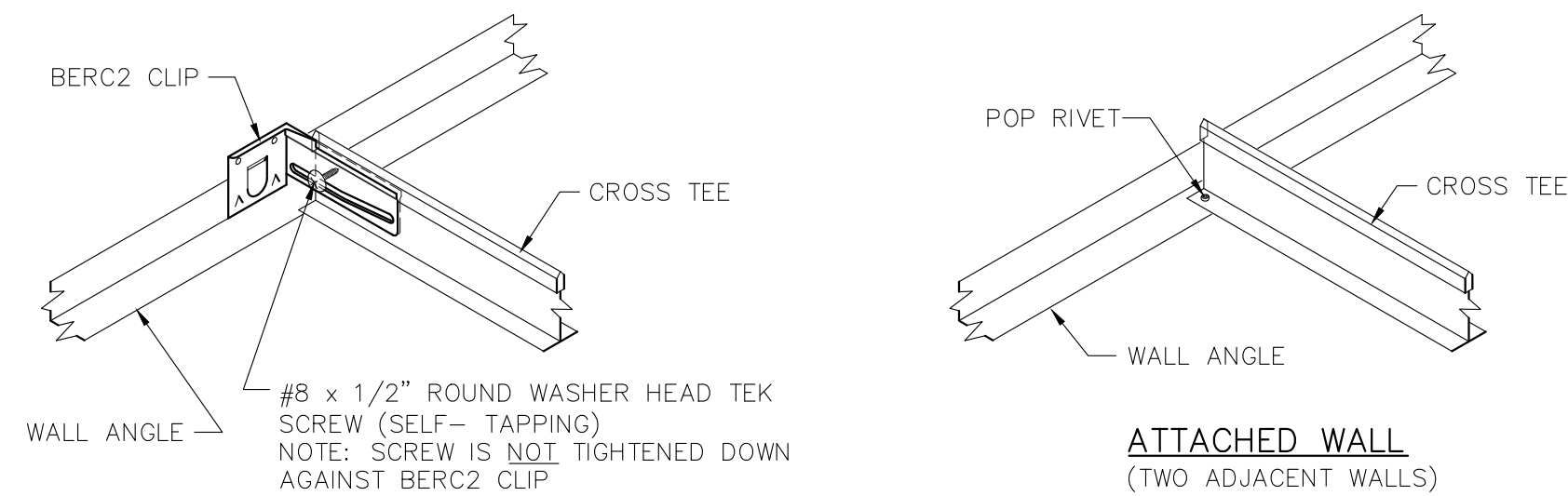
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Pacific Mobile

Newberg, Oregon

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Issue Date: 3-29-2022	

A-4



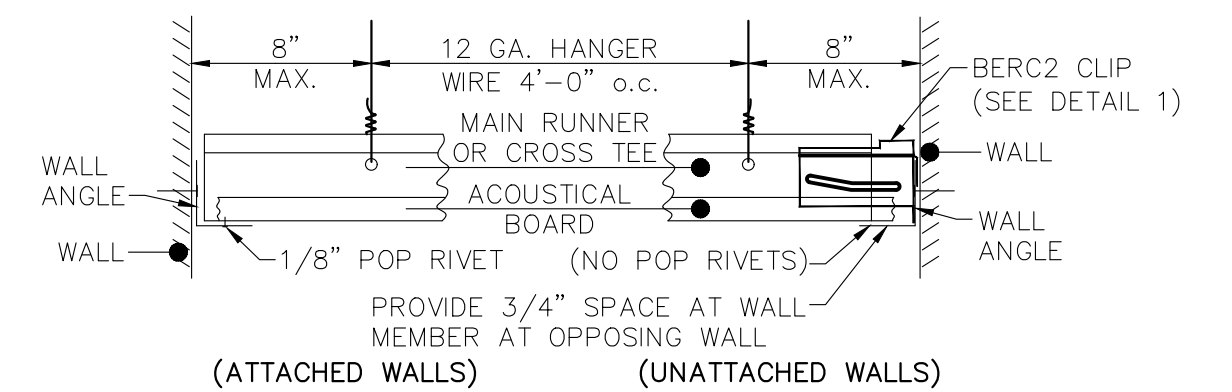


UNATTACHED WALL
(TWO ADJACENT WALLS)

SEISMIC BERC2 CLIP
-FACTORY INSTALLED AT TWO ADJACENT WALLS.
-SCREW TIGHTENED FOR SHIPPING IN ROOMS WHERE CEILING CROSSES MOD LINE, LOOSEN SCREW ON SITE BY SET UP CREW
-NOT REQUIRED FOR CEILINGS LESS THAN OR EQUAL TO 144 SF AND SURROUNDED BY WALLS CONNECTED TO THE STRUCTURE ABOVE.
-SOURCES: ASCE 7-16 SECTION 13.5.6 EXCEPTION 1, ASTM E580 SECTION 1.4

1 SEISMIC ATTACHMENT AT WALLS

N.T.S. [ARMSTRONG SEISMIC 'Rx' SUSPENSION SYSTEM (ESR 1308)]



NOTE:
HANGER AND PERIMETER WIRES MUST BE PLUMB WITHIN 1:6 UNLESS COUNTER SLOPING WIRES ARE PROVIDED

LATERAL-FORCE BRACING:

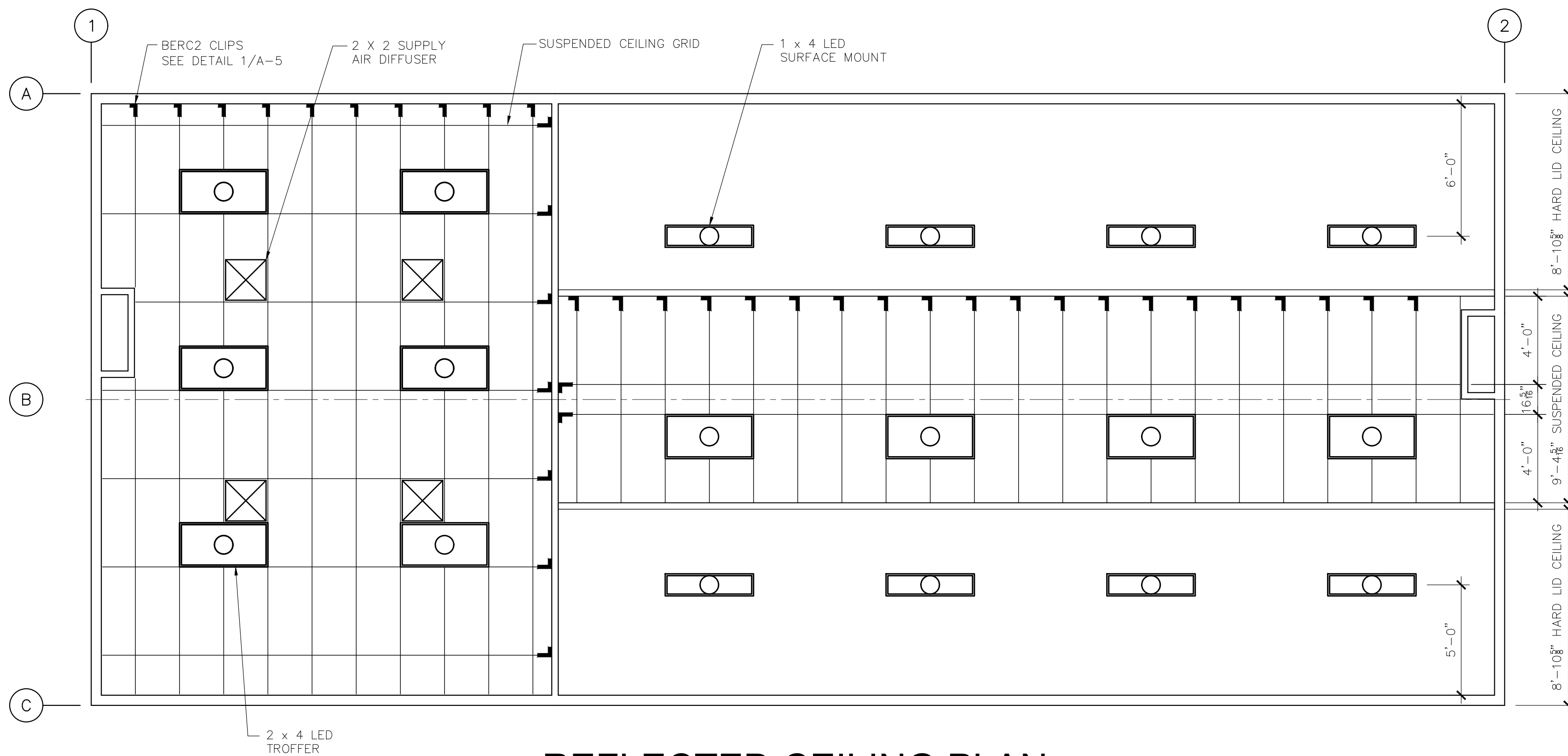
- IS THE USE OF VERTICAL STRUTS AND SPLAY WIRES.
- CEILING AREAS OF 1000 SQ.FT. OR LESS SHALL BE EXEMPT FROM LATERAL-FORCE BRACING REQUIREMENTS.
- CEILINGS WITH INTERSTITIAL SPACE LESS THAN 12" TO FRAMING ARE NOT REQUIRED TO HAVE LATERAL-FORCE BRACING.

SEISMIC SEPARATION JOINTS:

- ALL CONTINUOUS CEILING AREAS EXCEEDING 2500 SQ.FT. SHALL HAVE A SEISMIC SEPARATION JOINT.

2 STANDARD T-BAR DETAIL

N.T.S.



REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

3-29-2022	PRELIMINARY REVIEW - BM	TAS
DATE	REVISION	BY

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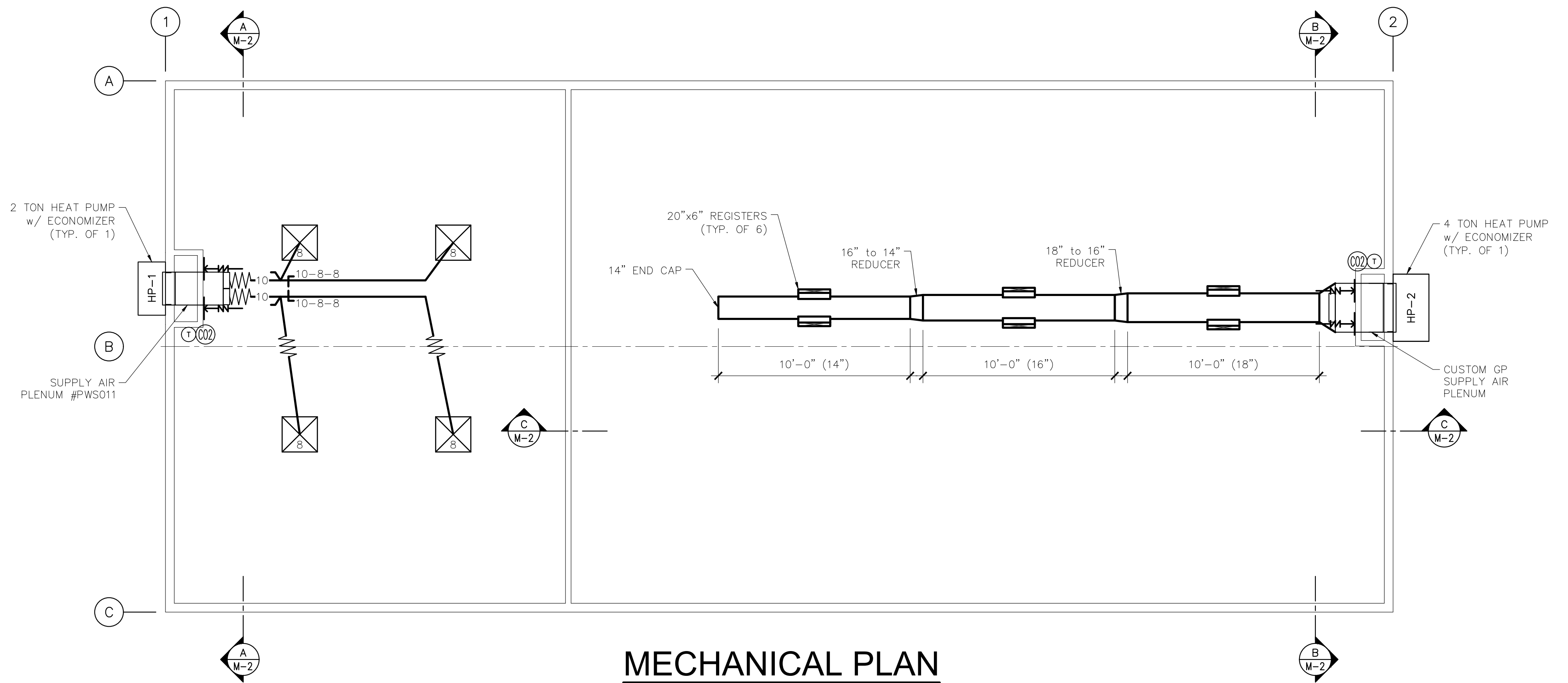
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MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

MECHANICAL NOTES:

- MECHANICAL EQUIPMENT INSTALLATION IN OR ON THIS BUILDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OMSC CHAPTER 6.
- DUCT MATERIAL IS 26 GA. GALV. AND FLEX DUCT. DUCTWORK SHALL BE SUPPORTED PER OMSC SECTION 603.
- MATERIAL IN DUCTS SHALL HAVE A FLAME SPREAD INDEX OF LESS THAN 25, SMOKE DEVELOPMENT OF 50. [OMSC SECTION 602]
- ROUND FLEX DUCT SHALL BE U.L. LISTED CLASS 1, STANDARD 181 – FACTORY MADE AIR DUCTS AND AIR CONNECTORS. MEASURED IN ACCORDANCE TO ASTM C 518 OR ASTM C 177 AT 75DEG F MEAN TEMPERATURE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
- LOW PRESSURE DUCT SYSTEMS SHALL HAVE LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS AND PLENUMS SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS EMBEDDED-FABRIC SYSTEMS OR APPROVED TAPES INSTALLED IN ACCORDANCE WITH OMSC SECTION 603.9.
- WHEN ISOLATION SLEEVES ARE USED AT LINE CONNECTIONS TO PLENUMS, THEN THEY SHALL COMPLY WITH OMSC CHAPTER 6.
- IF DIFFUSERS HAVE NO MANUAL DAMPERS, USE FLOW CONTROLS AT WYES. TYPICAL AS NOTED ON PLAN.
- MINIMUM OUTSIDE AIR VENTILATION PER OMSC TABLE 403.3.1.1.
- OUTSIDE AIR DAMPERS SHALL COMPLY WITH OEESC SECTION 6.4.3.4.
- ALL NEW SYSTEMS WITH A COOLING CAPACITY EQUAL TO OR GREATER THAN 54,000 BTU/H, REQUIRE ECONOMIZERS IN ACCORDANCE WITH 2021 OEESC SECTION 6.5.1.
- MECHANICAL DRAWINGS SHOW DUCTWORK SIZES TO BE CLEAR INSIDE DIMENSION.
- DUCT INSULATION SHALL COMPLY WITH OMSC SECTION 604.
- ELECTRICIAN MUST VERIFY ALL ELECTRICAL REQUIREMENTS AND LOCATIONS.
- THERMOSTAT SCHEDULING TO BE PERFORMED ON SITE BY OTHERS.
- ALL HVAC EQUIPMENT LEAVES FACTORY WIRED FOR 240 VOLT OPERATION. THE ACCEPTABLE OPERATING RANGE FOR THE 240V & 208V TAPS ARE:

TAP	RANGE
240	253 – 216
208	220 – 187
- SITE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THE RIGHT TAP IS CONNECTED FOR THE APPLIED SITE VOLTAGE.
- AIR FILTERS IN HVAC UNITS OR SYSTEMS ARE TO BE CHANGED EVERY 30 DAYS BY OTHERS ON SITE.
- REGISTER AIR FLOW TEST AND SYSTEM BALANCING OF HVAC SYSTEM, WHEN REQUIRED, WILL BE PROVIDED AND PERFORMED BY OTHERS ON SITE. [OMSC SECTION 403.3.1.5] [SYSTEM BALANCING OEESC 6.7.3.3]

MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTION
	2'x2' SUPPLY AIR DIFFUSER
	FLEX DUCT
	SUPPLY DUCT WITH DIAMETER INDICATOR
	DAMPER IN SUPPLY DUCT AT WYE
	SUPPLY WYE w/DUCT CONNECTION SIZES INDICATED
	THERMOSTAT
	CO2 SENSOR

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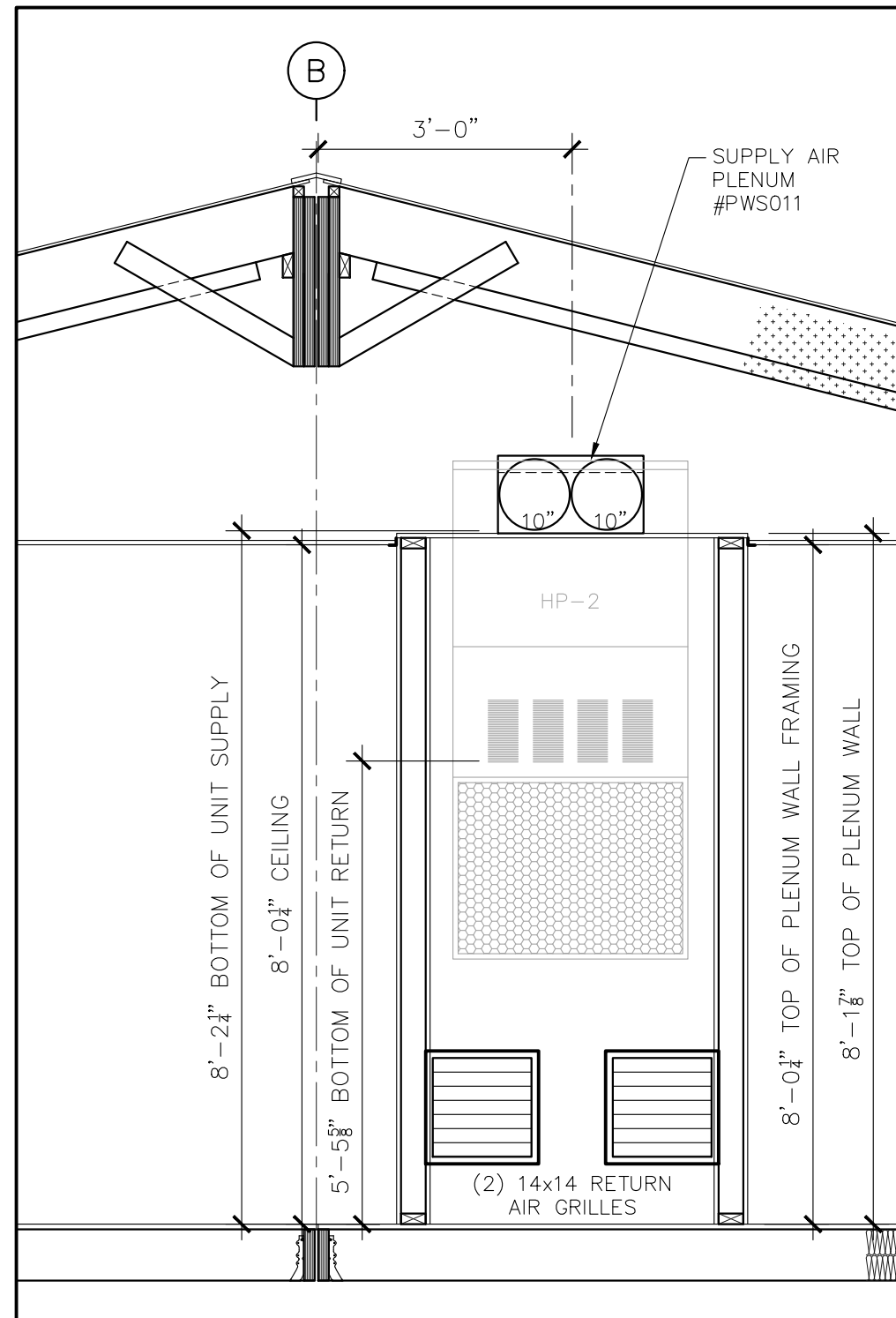
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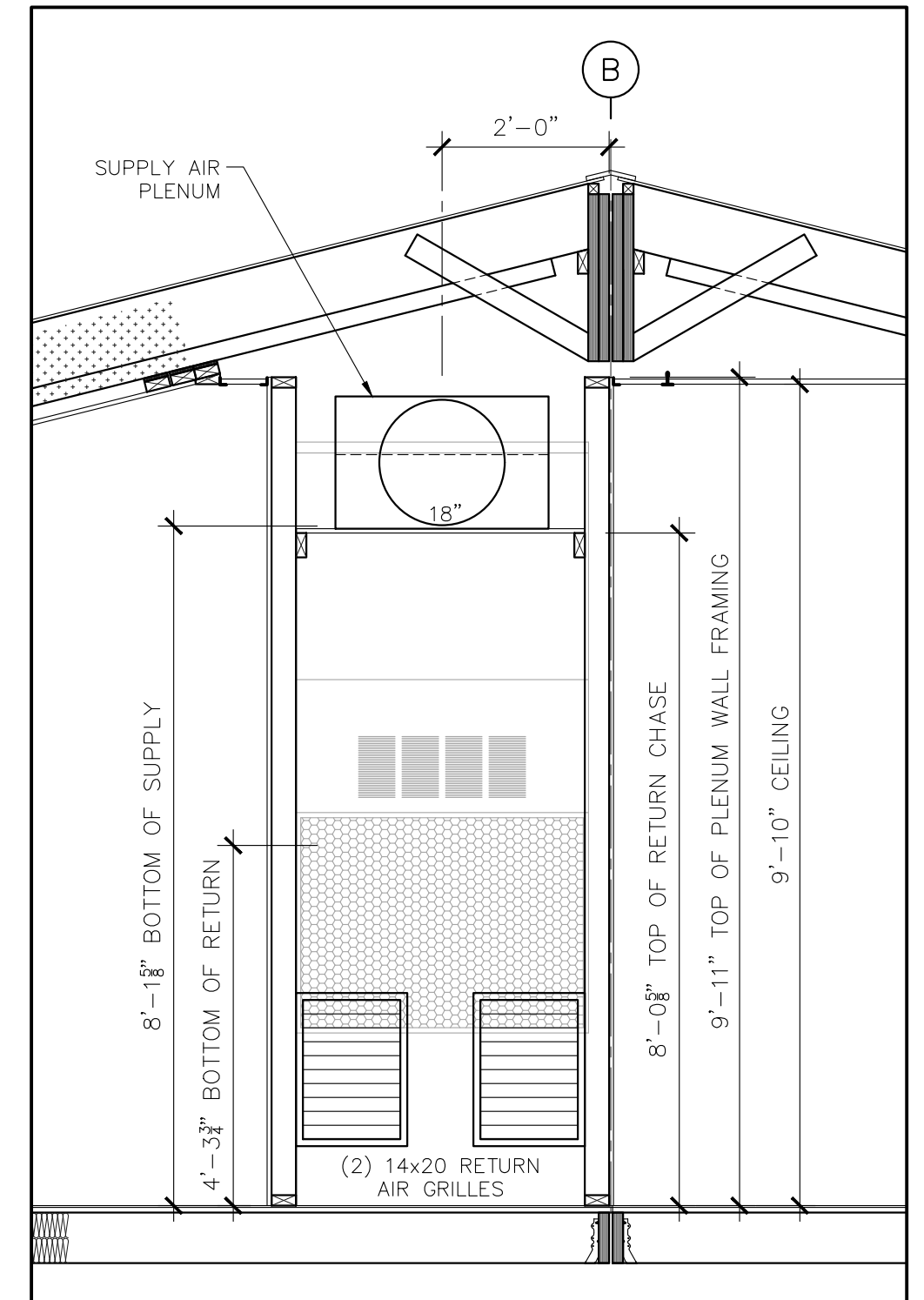
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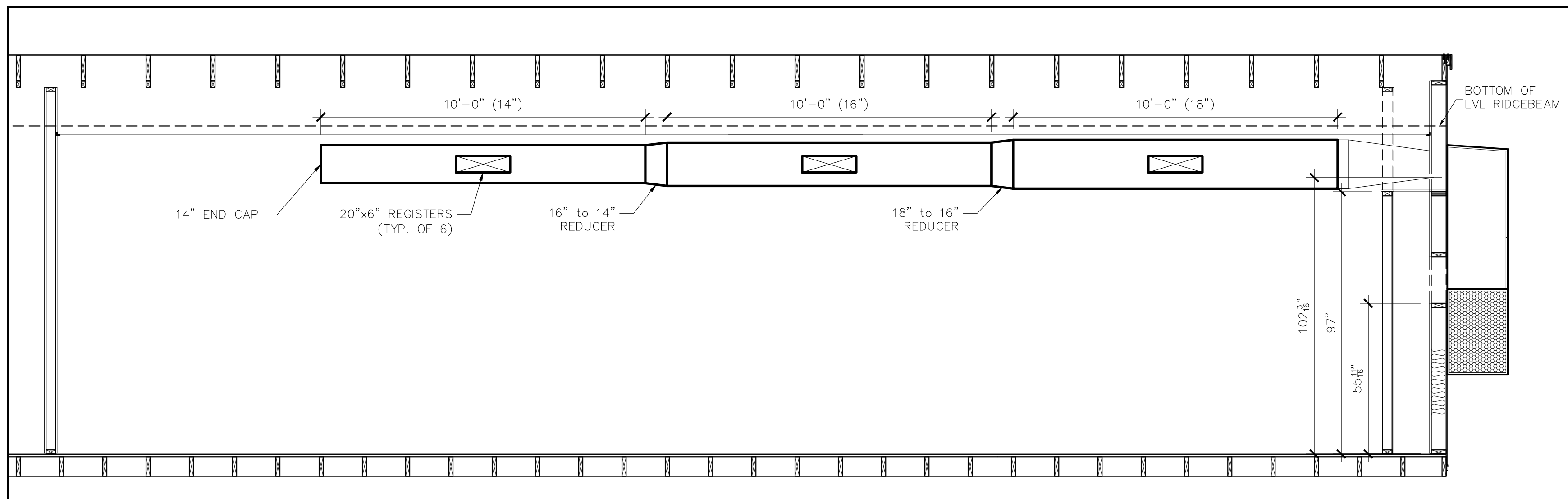
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SECTION A-A AT PLENUM
SCALE: 1/2" = 1'-0"



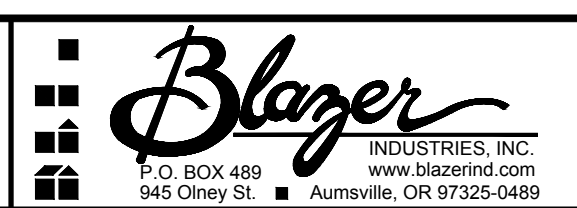
SECTION B-B AT PLENUM
SCALE: 1/2" = 1'-0"



SECTION C-C AT PLENUM
SCALE: 1/2" = 1'-0"

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M-2

Newberg, Oregon

PACKAGE *SPVU* HIGH EFFICIENCY WALL MOUNT HEAT PUMP – SCHEDULE

UNIT TAG	BARD UNIT MODEL NUMBER	UNIT SIZE	UNIT QTY	BLOWER MOTOR TYPE	AIRFLOW CFM	DD BLOWER SPEED SETTING	BLOWER HP	FAN EFFICIENCY GRADE (FEG)	VENTIL. DEVICE	VENTIL. (FA) CFM	FILTER TYPE	EER	OUTDOOR (DB) TEMP	ENTERING (DB) TEMP	ENTERING (WB) TEMP	COOLING CAPACITY BTUH	SENSIBLE COOLING CAPACITY BTUH	HEATING CAPACITY 47degs BTUH	HEATING COP 47degs	HERTZ	UNIT VOLTS	UNIT PHASE	HEAT STRIPS KW	HEAT STRIPS OUTPUT BTUH	SINGLE POINT CONNECTION		UNIT WGT	ADDITIONAL NOTES
																									MCA AMPS	MOCAP AMPS		
HP-1	W24HB-A08ZP4XXR	2.0	1	ECM	800	LOW	1/3	-----	ECON	-----	MERV-8	11.30	95	80	67	23,500	17,900	22,400	3.3	60	240	1	08	27,304	62	70	335	1,2,3,4,5,6,7,8,9,10,
HP-2	W48HC-A15ZP4XXR	4.0	1	ECM	1686	MED	3/4	-----	ECON	-----	MERV-8	11	95	80	67	48,330	37,679	41,378	3.3	60	240	1	15	51,195	87	90	505	1,2,3,4,5,6,7,8,9,10,

ADDITIONAL NOTES:

1 – CAPACITY LISTED ABOVE ARE IN ACCORDANCE WITH ANS/ARI STANDARD 390-2003 FOR SPVU (SINGLE PACKAGE VERTICAL UNITS)
 2 – COMPLIES WITH EFFICIENCY REQUIREMENTS OF ANSI/ASHRAE/IESNA 90.1-2016
 3 – BARD THERMOSTAT (8403-060), 7-DAY PROGRAMMABLE
 4 – BARD INDOOR REMOTE SENSOR. (8403-062)
 5 – BARD CO2 SENSOR, (S8403-069)
 6 – HEAT STRIPS KIT WITH CIRCUIT BREAKER
 7 – ECONOMIZER, FULL FLOW, WITH JADE CONTROLLER, ENTHALPY/TEMP SENSOR
 8 – 2" PLEATED FILTER, MERV-8
 9 – UNIT COLOR IS *BUCKEYE GRAY*
 10 – OUTDOOR THERMOSTAT SET AT 40DEG'S OR LOWER & LAC CONTROL (R) OPT.
 11 – SMOKE DETECTOR, SM501N (SUPPLY) DUCT MOUNTED
 12 – (BSDTIMER) KIT – PROVIDES A MEANS ON SHUTTING DOWN OF THE MECHANICAL COOLING AND HEATING SYSTEM, VENTILATION CONTINUES TO OPERATE, VIA EXTERIOR DOOR SWITCH (OPTIONAL)

Sequence of operation:

1- Upon a Cooling call from the room thermostat the unit will be in economizer or mechanical cooling mode or both depending on the economizer jade controller setpoints.
 2- Upon a heating call from the room thermostat the unit will be in mechanical heating and the economizer will be disable, 2nd stage heat strips will come on if the room temperature drops below its setpoint and during defrost.
 3- CO2 Sensor to control the ventilation mode through the Occupy connection as required by its set points
 4- These modes with keep repeating and required by the thermostat.
 5- If this unit is equipped with a exterior door shut down kit the unit mechanical system will be shut down after the exterior has been open for 5+ minutes. The ventilation portion will keep operating. Once the door closes the unit will restart if there is still a call from the thermostat.

** M.C. TO REFER TO INSTALLATION INSTRUCTIONS FOR START UP AND EQUIPMENT SET
 ** M.C. TO CHECK SITE VOLTAGE AND SET CORRECT TAP ON TRANSFORMER
 ** M.C. TO SET AND PROGRAM THERMOSTAT PER CUSTOMERS REQUIREMENTS
 ** M.C. TO SET AND CHECK ECONOMIZER AND VENTILATION PRE PROJECT REQUIREMENTS

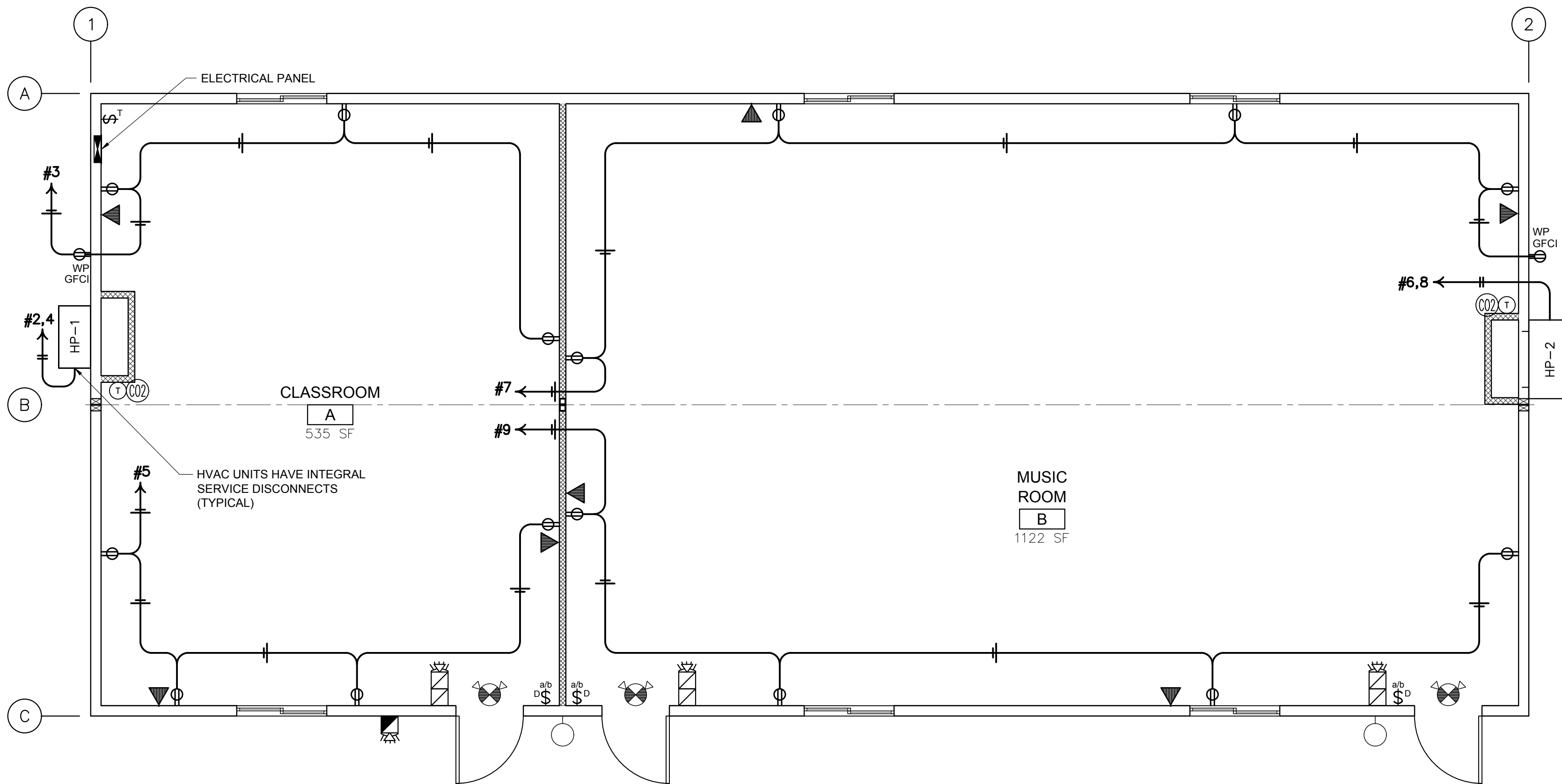
MINIMUM VENTILATION RATES PER WA-2018 IMC WAC & OR-2019 OMSC TABLE 403.3.1.1											
room #	name	Az (sf)	sf/1000	Occ. Dens	Pz (calc)	Pz (used)	Rp (cfm/person)	Ra (cfm/sf)	Vbz (cfm)	Ez (effect)	Voz (cfm)
	Music Room	1122	1.122	35	40	40	10	0.12	535	1.0	535
	Classroom A	535	0.535	35	19	19	10	0.12	254	1.0	254
					0	0			0	1.0	0
											789 cfm

Az = room area (sf)
 Occ. Dens = occupant density (from Table 403.3)
 Pz (calc) = zone population or occupant quantity (calculated)
 Pz (used) = zone population or occupant quantity (user can override the calculation-increase only)
 Rp = people outdoor airflow rate in breathing zone (cfm/person)
 Ra = area outdoor airflow rate in breathing zone (cfm/sf)
 Vbz = Breathing zone outdoor air flow rate per eq. 4-1 (Rp*Pz+Ra*Az)
 Ez = zone air distribution effectiveness (from Table 403.3.1.1.1.2)
 Voz = zone outdoor airflow per equation 4-2 (Vbz/Ez)

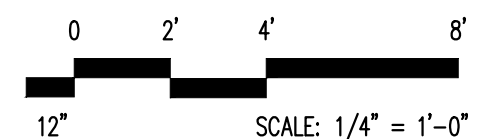
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3-29-2022	PRE-SUBMITTAL REVIEW - JH	TAS			28 x 64		File Copy:	
DATE	REVISION	BY	OR GOLD	Drawn By: TAS Issue Date: 3-29-2022	M-3			

Newberg, Oregon

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ELECTRICAL POWER PLAN



ars 3/18/2022

OREGON STATE
GENERAL SUPERVISING ELECTRICIAN

SMITH, AARON R

LICENSE NO: 5726S
ISSUE DATE: 09/10/2019
EXPIRE DATE: 10/01/2022

BLAZER INDUSTRIES, INC.
OREGON CCB #0050106
ELECTRICAL LICENSE #24-197C

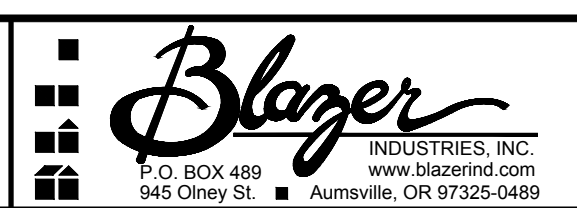
SIGNATURE:

QTY.	SIZE	DESCRIPTION
1	200 AMP	SINGLE PHASE - STUB THRU - 120/240 VOLT
		METALLIC RACEWAY SYSTEM - EMT, MC CABLE AND/OR FLEX CONDUIT
1	2 TON	BARD 8 kW WALL HUNG HEAT PUMP w/ECONOMIZER - 11 EER
1	4 TON	BARD 15 kW WALL HUNG HEAT PUMP w/ECONOMIZER - 11 EER
2		THERMOSTAT - BARD #8403-060
10	2 x 4	LED VOLUMETRIC TROFFER-nLIGHT AIR ENABLED-6000 LUMEN-48 WATTS-4000K -LITHONIA-2BLT4 60L ADPT EZ1 LP840 NLTAIR2 RES7 PWS1836
8	1 x 4	BLWP SURFACE MOUNTED LED-nLIGHT AIR ENABLED-6000 LUMEN-49 WATTS -4000K LITHONIA-BLWP4 60L ADPT EZ1 LP840 NLTAIR2 RES7
2		14 WATT VANDAL RESISTANT LED PORCH LIGHT w/PHOTOCELL LITHONIA OVWPLED40K120PEDDBHP17M4

ELECTRICAL SYMBOLS							
SYMBOL	DESCRIPTION	AFF TO TOP	REMARKS	SYMBOL	DESCRIPTION	AFF TO TOP	REMARKS
	ELECTRICAL PANEL	72"			CO2 SENSOR	48"	4" SQUARE BOX w/ SINGLE GANG MR 18AWG STAT WIRE
	DUPLEX RECEPTACLE	20"	180 VA EACH		nLIGHT ENABLED LED TROFFER w/ INTEGRAL SENSORS	T-BAR CEILING	48 VA EACH 6000 LUMEN EACH
	WEATHER RESISTANT GFCI RECEPTACLE	20"	180 VA EACH		BLWP nLIGHT ENABLED 1x4 LED SURFACE MOUNTED w/INTEGRAL SENSOR	HARD-LID CEILING	49 VA EACH 6000 LUMEN EACH
	nLIGHT DIMMING CONTROL	48"	2 ZONE DIMMING CONTROL. LOWER CASE LETTERS DESIGNATE ZONING		LED WALL PACK	84"	14 VA EACH
	PHONE/DATA ROUGH IN 4" SQ BOX w/ SINGLE GANG MR	20"	3/4" FLEX STUBBED UP AND DOWN		EXIT / EMERGENCY COMBO RED LETTERS	ABOVE DOOR	90 MINUTE BATTERY BACK UP
	WALL HUNG HVAC UNIT 1	AS REQUIRED	SEE MECH SCHEDULE AND CALCS		PULL STATION	48"	
	WALL HUNG HVAC UNIT 2	AS REQUIRED	SEE MECH SCHEDULE AND CALCS		FIRE ALARM HORN/STROBE	84"	3/4" RACEWAY ONLY STUB UP AND DOWN. PAINT RACEWAY AND BACK BOX SUBSTANTIALLY RED IN COLOR
	HVAC THERMOSTAT	48"	4" SQUARE BOX w/ SINGLE GANG MR 18AWG STAT WIRE		EXT FIRE ALARM HORN/STROBE	84"	

DATE	REVISION	TAS	BY
3-15-2022	PRELIMINARY REVIEW - BM	TAS	
3-18-22	ELECTRICAL ENGINEERING	ARS	
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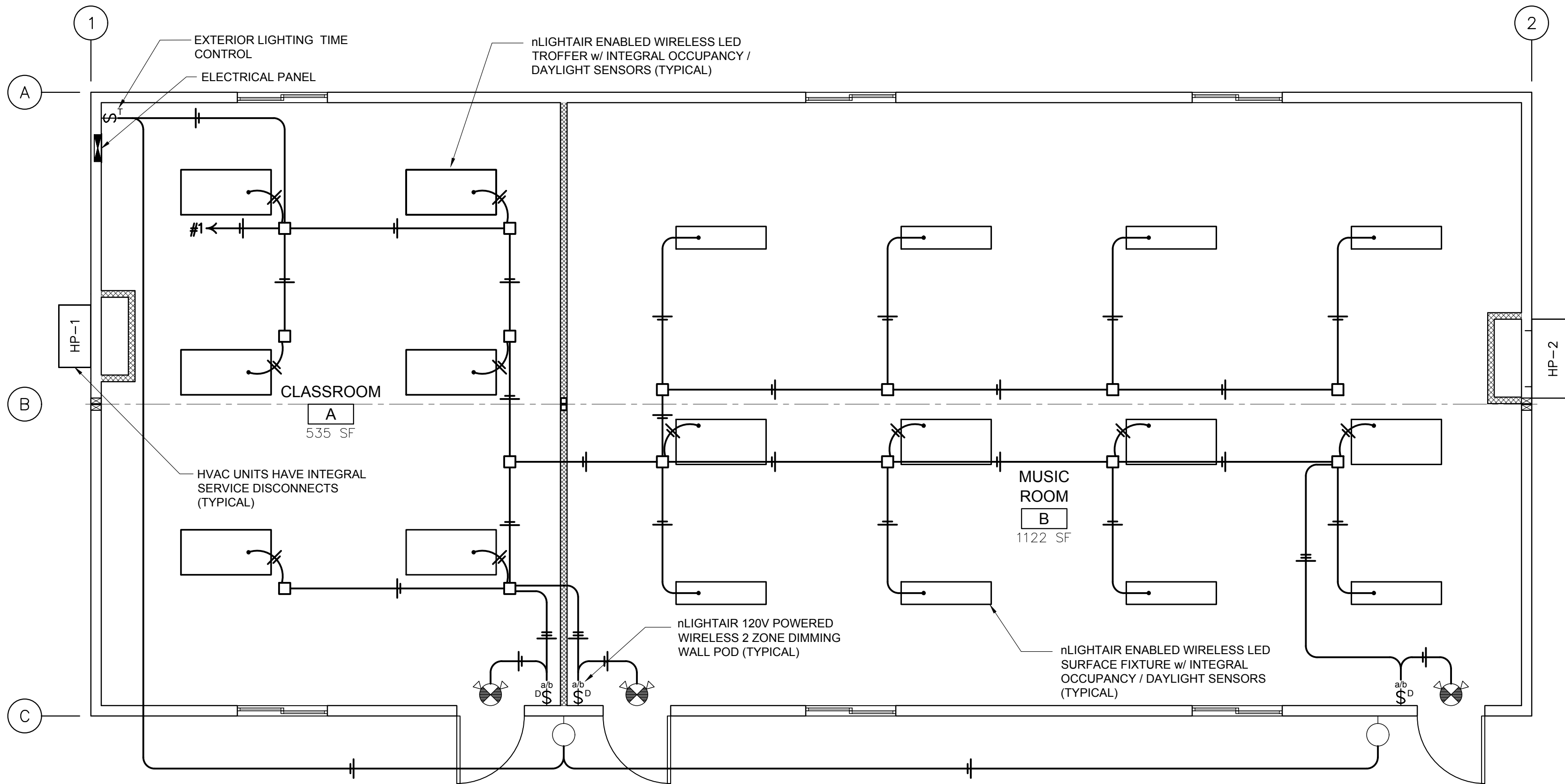
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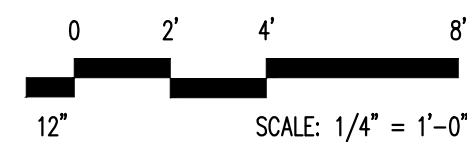
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E-1

Newberg, Oregon



ELECTRICAL LIGHTING PLAN



ars 3/18/2022

OREGON STATE
GENERAL SUPERVISING ELECTRICIAN

SMITH, AARON R

LICENSE NO: 5726S
ISSUE DATE: 09/10/2019
EXPIRE DATE: 10/01/2022

BLAZER INDUSTRIES, INC.
OREGON CCB #0050106
ELECTRICAL LICENSE #24-197C

SIGNATURE: _____

QTY.	SIZE	DESCRIPTION
1	200 AMP	SINGLE PHASE - STUB THRU - 120/240 VOLT
		METALLIC RACEWAY SYSTEM - EMT, MC CABLE AND/OR FLEX CONDUIT
1	2 TON	BARD 8 kW WALL HUNG HEAT PUMP w/ECONOMIZER - 11 EER
1	4 TON	BARD 15 kW WALL HUNG HEAT PUMP w/ECONOMIZER - 11 EER
2		THERMOSTAT - BARD #8403-060
10	2 x 4	LED VOLUMETRIC TROFFER-nLIGHT AIR ENABLED-6000 LUMEN-48 WATTS-4000K -LITHONIA-2BLT4 60L ADPT EZ1 LP840 NLTAIR2 RES7 PWS1836
8	1 x 4	BLWP SURFACE MOUNTED LED-nLIGHT AIR ENABLED-6000 LUMEN-49 WATTS -4000K LITHONIA-BLWP4 60L ADPT EZ1 LP840 NLTAIR2 RES7
2		14 WATT VANDAL RESISTANT LED PORCH LIGHT w/PHOTOCELL LITHONIA OVWPLED40K120PEDDBHP17M4

ELECTRICAL SYMBOLS							
SYMBOL	DESCRIPTION	AFF TO TOP	REMARKS	SYMBOL	DESCRIPTION	AFF TO TOP	REMARKS
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	WEATHER RESISTANT GFCI RECEPTACLE	20"	180 VA EACH		BLWP nLIGHT ENABLED 1x4 LED SURFACE MOUNTED w/INTEGRAL SENSOR	HARD-LID CEILING	49 VA EACH 6000 LUMEN EACH
	nLIGHT DIMMING CONTROL	48"	2 ZONE DIMMING CONTROL. LOWER CASE LETTERS DESIGNATE ZONING		LED WALL PACK	84"	14 VA EACH
	PHONE/DATA ROUGH IN 4" SQ BOX w/ SINGLE GANG MR	20"	3/4" FLEX STUBBED UP AND DOWN		EXIT / EMERGENCY COMBO RED LETTERS	ABOVE DOOR	90 MINUTE BATTERY BACK UP
	WALL HUNG HVAC UNIT 1	AS REQUIRED	SEE MECH SCHEDULE AND CALCS		PULL STATION	48"	
	WALL HUNG HVAC UNIT 2	AS REQUIRED	SEE MECH SCHEDULE AND CALCS		FIRE ALARM HORN/STROBE	84"	3/4" RACEWAY ONLY STUB UP AND DOWN. PAINT RACEWAY AND BACK BOX SUBSTANTIALLY RED IN COLOR
	HVAC THERMOSTAT	48"	4" SQUARE BOX w/ SINGLE GANG MR 18AWG STAT WIRE		EXT FIRE ALARM HORN/STROBE	84"	

DATE	REVISION	TAS	ARS	TAS	BY
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E-2

PANEL SCHEDULE

PANEL DESIGNATION: PANEL A
 MOUNTING: FLUSH
 ENCLOSURE TYPE: NEMA 1
 VOLTS: 120/240
 PHASE: 1
 AIC RATING: 22,000
 BUSS RATING: 200 AMP
 MCB RATING: 200 AMP

CKT	CIRCUIT DESCRIPTION	TRIP	WIRE SIZE	CONNECTED LOAD (VA)		WIRE SIZE	TRIP	DESCRIPTION	CKT
				A	B				
1	LIGHTING	20	12	900	5212	4	70	HVAC #1	2
3	RECEPTACLES	20	12		720	/	/	/	4
5	RECEPTACLES	20	12	720	7872	3	90	HVAC #2	6
7	RECEPTACLES	20	12		900	/	/	/	8
9	RECEPTACLES	20	12	720				SPACE	10
11	SPACE							SPACE	12
13	SPACE							SPACE	14
15	SPACE							SPACE	16
17	SPACE							SPACE	18
19	SPACE							SPACE	20
CONNECTED LOAD		TOTAL LOAD:		15424.0	14704.0				
		TOTAL AMPS:		128.5	122.5				

BARD 2 TON - 8KW - 11EER WH UNIT

HVAC (MOTOR, COMPRESSOR, HEATER SIZES)		
OPERATION VOLTAGE	197 MIN.	253 MAX.
COMPRESSOR	8.3 RLA	58 LRA
OUTDOOR FAN	1.1 FLA	1/6 HP
INDOOR BLOWER FAN	.7 FLA	1/3 HP
HEAT STRIP	8 KVA	240 VOLT
MINIMUM CIRCUIT AMPS	62 AMPS	
MAXIMUM OVERCURRENT PROTECTION	70 AMPS	
OVERCURRENT PROTECTION SHALL BE DUAL ELEMENT TIME DELAY FUSE OR HACR CIRCUIT BREAKER		
INTERNAL SERVICE DISCONNECTS PROVIDED.		

BARD 4 TON - 15KW - 11EER WH UNIT

HVAC (MOTOR, COMPRESSOR, HEATER SIZES)		
OPERATION VOLTAGE	197 MIN.	253 MAX.
COMPRESSOR	16 RLA	117 LRA
OUTDOOR FAN	1.6 FLA	1/3 HP
INDOOR BLOWER FAN	3.1 FLA	3/4 HP
HEAT STRIP	15 KVA	240 VOLT
MINIMUM CIRCUIT AMPS	87 AMPS	
MAXIMUM OVERCURRENT PROTECTION	90 AMPS	
OVERCURRENT PROTECTION SHALL BE DUAL ELEMENT TIME DELAY FUSE OR HACR CIRCUIT BREAKER		
INTERNAL SERVICE DISCONNECTS PROVIDED.		

GENERAL NOTES:

- WHEN STRANDED WIRE IS USED, ALL TERMINATIONS ARE MADE BY A PRESSURE TERMINAL, BY TAILING OFF WITH SOLID CONDUCTORS OR OTHER APPROVED MEANS OF TERMINATION.
- ALL CONDUCTORS ARE COPPER; TYPE THHN / THWN
- RATING OF STANDARD PANEL IS 22,000 A.I.C.
- WIRING METHOD IN METALLIC CONDUIT OR M.C. CABLE.
- HVAC DISCONNECTS SHALL BE LABELED WITH AN IDENTIFICATION PLATE SHOWING CIRCUIT SOURCE PANEL BOARDS, CIRCUIT NUMBER AND EQUIPMENT SERVED.
- EXTERIOR WEATHER PROOF GFCI SHALL HAVE A "HEAVY DUTY" WEATHER PROOF "IN USE" COVER. 2020 NEC 406.9(B)(1)
- THIS PLAN IS NOT AN "AS-BUILT" CIRCUITS MAY BE RUN DIFFERENT THAN SHOWN BASED ON OBSTACLES ENCOUNTERED.

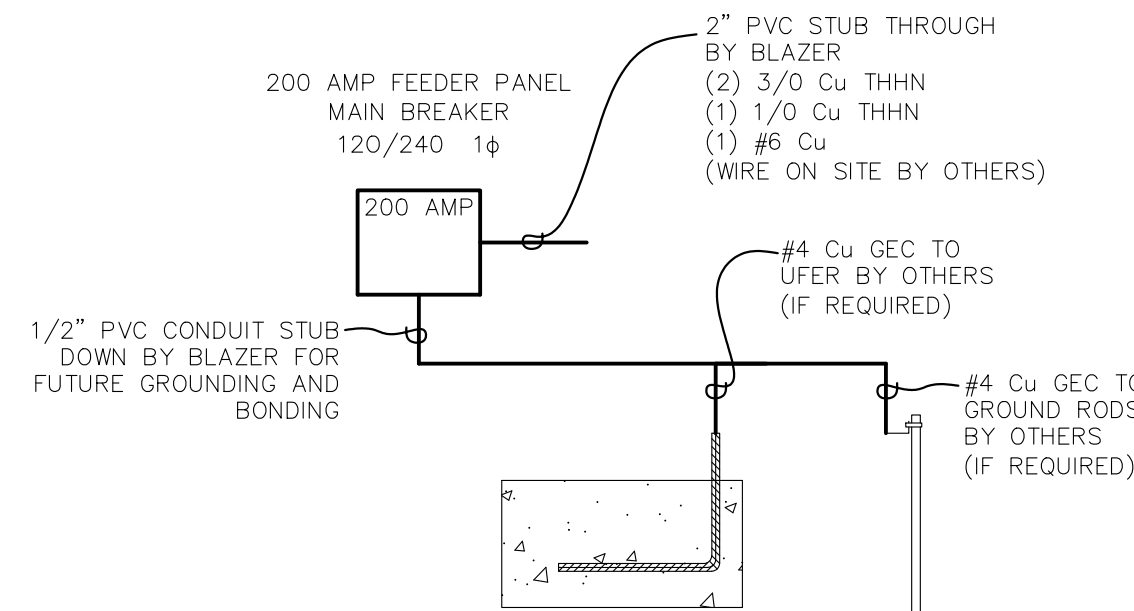
2021 OEESC / 2018 IECC / 51-11C WAC 2018 WSEC:

- A MINIMUM OF 90% OF LIGHTING FIXTURES HAVE EMBEDDED OCCUPANCY AND DAYLIGHT SENSORS FOR INCREASED ENERGY SAVINGS, AND ARE INDIVIDUALLY ADDRESSABLE.
- A MINIMUM OF 90% OF LIGHTING IS SET FOR CONTINUOUS DIMMING AND IS ADJUSTABLE BY OCCUPANTS, FOR OCCUPANT COMFORT, VIA WALL PODS.
- 50% OF RECEPTACLES IN CLASSROOMS, PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, COPY ROOMS, AND INDIVIDUAL WORKSTATIONS, ARE CONTROLLED BY LOCAL OCCUPANCY SENSORS
- FUNCTIONAL PERFORMANCE TESTING SHALL BE PERFORMED
- THE MAXIMUM VOLTAGE DROP ACROSS FEEDERS AND BRANCH CIRCUITS TO BE DETERMINED ON SITE AND SHALL NOT EXCEED 3%

ELECTRICAL PLAN REVIEW LOAD CALCULATION		CALC BY: AARON SMITH	
PROJECT INFO: 20143 VERITAS SCHOOL		DATE: 3/18/2022	
PANEL: PANEL A		VOLTAGE: 120/240 PHASE: 1	
FED FROM: EXISTING SERVICE		AMPACITY: 200	
		AIC RATING: 22,000	
DESCRIPTION	VA LOAD	DEMAND FACTOR	PHASE A
LIGHTING			
EXTERIOR LIGHTING	28	1.25	35
INTERIOR LIGHTING	872	1.25	1090
RECEPTACLES			
TOTAL	3060	1.00	1440
HVAC (MOTORS)			
TOTAL	3168	1.00	1584
LARGEST	3840	0.25	480
HEATING			
TOTAL	23000	1.00	11500
TOTALS			
		PHASE A	PHASE B
		16129.0	15184.0
		134.4	126.5
		NEUTRAL A	NEUTRAL B
		2565.0	1620.0
		21.4	13.5
LARGEST POWER PHASE	16129.0 VA	LARGEST NEUTRAL PHASE	
	134.4 AMPS	2565.0 VA	
		21.4 AMPS	

NOTES:

- HVAC #2 THE MAX THAT CAN OPERATE WITH THE HEAT PUMP IS 10KW. 15 KW CAN OPERATE IN EMERGENCY HEAT CALC INCLUDES HVAC #1 COMP, OUTDOOR FAN, BLOWER / HVAC #2 BLOWER.
- CALC INCLUDES HVAC #1 HEAT STRIPS 8KW / HVAC #2 HEAT STRIPS 15KW
- HVAC #2 COMPRESSOR IS USED AS THE LARGEST MOTOR FOR CALCULATION



FORM A COMPLETE GROUNDING ELECTRODE SYSTEM PER 2020 NEC 250.53. PROVIDED AND INSTALLED ON SITE BY OTHERS

OREGON - SPACE BY SPACE LIGHTING POWER DENSITY PER 2021 OEESC				
SPACE DESIGNATION	SQ. FT.	SPACE TYPE	WATTS SQ. FT. ALLOWANCE	TOTAL ALLOWED
CLASSROOM A	535	CLASSROOM	0.71	379.85
MUSIC ROOM	1122	CLASSROOM	0.71	796.62
TOTAL SQ. FT.	1657		TOTAL ALLOWED	1176.5
			TOTAL INSTALLED	872.0
			PASS OR FAIL	PASS
TOTAL ALLOWED = SQ. FT. x ALLOWED WATTS PER SQ. FT. - TABLE 9.6.1				
BASED ON 2019 ASHRAE 90.1				

OREGON STATE
 GENERAL SUPERVISING ELECTRICIAN

SMITH, AARON R

LICENSE NO: 5726S
 ISSUE DATE: 09/10/2019
 EXPIRE DATE: 10/01/2022

BLAZER INDUSTRIES, INC.
 OREGON CCB #0050106
 ELECTRICAL LICENSE #24-197C

SIGNATURE:

DATE	REVISION	BY
3-18-22	ELECTRICAL ENGINEERING	ARS
3-29-2022	PRE-SUBMITTAL REVIEW - JH	TAS
3-29-2022	PRE-SUBMITTAL REVIEW - JH	TAS

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MODULAR
 28 x 64
 OR GOLD

CLASSROOM for:
VERITAS SCHOOL
 Pacific Mobile

Newberg, Oregon

Approved for Const:	Job No: 20143
File Copy:	
Drawn By: TAS	
Issue Date: 3-31-2022	

E-3