

FASTENING SCHEDULE (a)

NOTE: TABLE PROVIDED FOR COMMONLY USED CONNECTIONS. FOR COMPLETE TABLE REFER TO BC-0918 CONNECTIONS CALLED OUT IN PLAN DETAILS. SUPERCEDED THOSE LISTED HERE.

CONNECTION DESCRIPTION	QTY & TYPE OF FASTENER	SPACING & LOCATION
2. CEILING JOIST TO TOP PLATE	3-86 (3 1/2"x6,13")	EA JOIST TO ENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITION	3-86 (3 1/2"x6,162")	FACE NAIL
4. CEILING JOIST ATTACHED TO RAFTER OR TRUSS TO TOP PLATE	PER TABLE 2008.7.3.1 3-86 (3 1/2"x6,187")	FACE NAIL TO ENAIL (B)
5. STUD TO STUD	160 (3 1/2"x6,182")	24"o.c. FACE NAIL
6. STUD TO STUD AT WALL CORNERS & BRACED WALL PANELS	160 (3 1/2"x6,182")	16"o.c. FACE NAIL
7. STUD TO STUD AT WALL CORNERS (NOT AT BRACED WALL PANELS)	160 (3 1/2"x6,182")	16"o.c. EA EDGE FACE NAIL TO ENAIL
8. STUD TO STUD AT WALL CORNERS (NOT AT BRACED WALL PANELS)	160 (3 1/2"x6,182")	16"o.c. FACE NAIL
9. STUD TO STUD AT WALL CORNERS (NOT AT BRACED WALL PANELS)	160 (3 1/2"x6,182")	16"o.c. FACE NAIL
10. BUILT UP HEADER (2x TO 2x)	4-86 (3 1/2"x6,182")	EA SIDE OF END JOINT FACE NAIL (2" MIN LAP)
11. CONTINUOUS HEADER TO STUD	4-86 (3 1/2"x6,182")	12"o.c. FACE NAIL
12. TOP PLATE TO TOP PLATE @ ENDS	4-86 (3 1/2"x6,182")	16"o.c. FACE NAIL
13. TOP PLATE TO TOP PLATE @ ENDS	4-86 (3 1/2"x6,182")	16"o.c. FACE NAIL
14. BOTTOM PLATE TO JOIST, RM JOIST OR BLOOMING (NOT BRACE PANELS)	160 (3 1/2"x6,182")	16"o.c. FACE NAIL
15. BOTTOM PLATE TO JOIST, RM JOIST AT BRACED WALL PANELS	2-86 (3 1/2"x6,182")	16"o.c. FACE NAIL
16. TOP BOTTOM PLATE TO STUD	2-86 (3 1/2"x6,182")	END NAIL
17. TOP BOTTOM PLATE TO STUD	2-86 (3 1/2"x6,182")	FACE NAIL
18. TOP PLATES LAPS @ CORNERS & INT.	3-86 (3 1/2"x6,131")	TO ENAIL
22. JOIST TO BULL TOP PLATE, OR GIRD	3-86 (3 1/2"x6,131")	EA JOIST OR RAFTER FACE NAIL
28. LEDGER STRIP SUPPORTING JOISTS	3-86 (3 1/2"x6,182")	RAFTER FACE NAIL

SUBFLOOR ELEMENT	QTY & TYPE OF FASTENER	EDGE	INTERMEDIATE
SUBFLOOR ROOF & WALL SHEATHING TO FRAMING	66 COMMON OR DEFORMED (2"x6,117")	6"	12"
- 1/2" & LESS (SUBFLOOR WALL)	1 3/4" x 96" W/ 7/16" CROWN	4"	8"
- 1/2" & LESS (ROOF)	86 BOX OR DEFORMED (2 1/2"x6,117)	6"	12"
- 19/32" TO 3/4"	1 3/4" x 96" W/ 7/16" CROWN	4"	8"
- 18" TO 1 1/4"	86 COMMON (2 1/2"x6,131")	6"	12"
- 18" TO 1 1/4"	66 DEFORMED (2"x6,117")	6"	12"
- 1/2" & LESS	160 COMMON (2"x6,187")	6"	12"
- 1/2" & LESS	86 DEFORMED (2 1/2"x6,131")	6"	12"
PANEL SIDING	66 CORROSION RES. SIDING (1 7/8"x6,107")	6"	12"
- 1/2" & LESS	86 CORROSION RES. SIDING (2 3/8"x6,128")	6"	12"
PANELING	46 CASING (1 1/2"x6,080") OR FINISH (1 1/2"x6,072")	6"	12"

MSC, ALUMINUM DRIP RAIL OR DRIP EDGE 86-3/4" HEX HEAD SCREWS @ 4 1/2" O.C. PER MANUFACTURERS INSTRUCTIONS

STEEL GALVANIZED ROOFING PER MANUFACTURERS INSTRUCTIONS

MEMBRANE ROOFING PER MANUFACTURERS INSTRUCTIONS

EXCEPTS FROM I.B.C. TABLE 2008.10.1 (NOTE: NOT ALL ITEMS AND FASTENERS ARE USED ON ALL JOBS). REFER TO FULL TABLE FOR MORE OPTIONS.

WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTERS SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

NOTES:

GENERAL:

- ALL NEW FACILITIES SHALL BE BUILT IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS FOR BARRIER FREE ACCESS (WAC-51-50-1100).
- ALL STAIRS, RAMPS, LANDINGS, AND HANDRAILS TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS, UNDER SEPARATE LOCAL PERMIT (UNLESS NOTED OTHERWISE)

SUB-ROOF ENVELOPE:

- CODE REFERENCES BELOW REFER TO THE WASHINGTON STATE ENERGY CODE (WSEC) 2018 EDITION, BUILDING WILL ALSO MEET THE REQUIREMENTS OF THE 2021 OREGON (OREGON)
- INSULATION SHALL BE PROVIDED WITH A R-VALUE IDENTIFICATION MARK FROM THE MANUFACTURER (WSEC C303.1.1)
- FENESTRATION PRODUCTS TO BE SUPPLIED WITH A LABEL WITH RATED U-FACTOR, SHGC, VT AND LEAKAGE RATINGS (WSEC C303.1.3)
- ALL INSULATION MATERIALS SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS TO MAINTAIN PROPER GENTES, MAINTAIN CLEARANCES, AND OBTAIN FULL R-VALUE (WSEC C303.2)
- ROOF CEILING INSULATION SHALL BE INSTALLED W/ MIN 1" CLEAR AIR SPACE TO ROOFING MEMBERS ABOVE. WHEN EA VE VENTING IS REQUIRED INSTALL BAFFLES TO DEFLECT AIR OVER SURFACE OF INSULATION. (IBC 1203.2)
- EXTERIOR WALL CAVITIES SHALL BE FULLY INSULATED TO THE LEVELS OF THE SURROUNDING WALLS
- FLOOR INSULATION SHALL BE INSTALLED IN A PERMANENT MANNER IN SUBSTANTIAL CONTACT WITH THE SURFACE BEING INSULATED. SUPPORTS SHALL BE SPACED AT NOT MORE THAN 24" O.C. INSULATION SHALL NOT BLOCK CRAWL SPACE VENTS.
- DOOR AND GLAZING UFACTOR, SHGC & VT SHALL BE OBTAINED FROM NFRC LABEL. PRODUCTS LACKING THIS LABEL SHALL BE ASSIGNED A DEFAULT VALUE FROM WSEC TABLES IN CHAPTER 3 (WSEC C303.1.3)
- VAPOR RETARDER (CLASS I OR II) REQUIRED AT INTERIOR SIDE OF FRAME WALLS IN ZONES 1 & 2 AND MARINE 4. (IBC 1405.3.1)
- WSEC C402.5.1 A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE. THE AIR BARRIERS SHALL BE PERMITTED TO BE LOCATED ON THE INSIDE OR OUTSIDE OF THE BUILDING ENVELOPE, LOCATED WITHIN THE ASSEMBLIES COMPOSING THE ENVELOPE, OR ANY COMBINATION THEREOF. THE AIR BARRIER SHALL COMPLY WITH SECTIONS C402.5.1.1 AND 402.5.1.2

STRUCTURAL:

- WINDOWS AND DOORS SHALL HAVE A MIN OF (2) STUDS AT EACH SIDE (1 KING STUD AND ONE TRIMMER)
- ALL NAILING AND FASTENING NOT CALLED OUT ON PLANS AND DETAILS SHALL BE PER IBC 2304-10.1 NAILING SCHEDULE (LOCATED ON THIS SHEET)

ABBREVIATIONS

N.B.W. NOT PROVIDED OR INSTALLED BY WHITLEY (PROVIDED AND INSTALLED BY OTHERS ON SITE)

OCFI OWNER FURNISHED, CONTRACTOR INSTALLED

OPFI OWNER FURNISHED, CONTRACTOR INSTALLED

OPFI OWNER FURNISHED, WHITLEY INSTALLED

N.L.E.A. NOTICE TO LOCAL ENFORCEMENT AGENCY (ITEMS THAT ARE INSTALLED OR COMPLETED ON SITE, TO BE INSPECTED BY LOCAL BUILDING OFFICIAL)

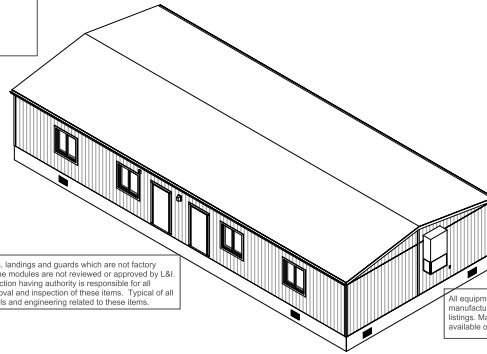
NOTE: TEXT IN ITALICS REFERS TO WORK OR ITEMS TO BE INSTALLED ON SITE, OR OTHERWISE NOT IN THE FACTORY SCOPE OF WORK

28'X64' X6 MODULAR CLASSROOM

The Fire Alarm plan review, inspection, and testing - is not part of the L&I review.

Please see the Notification to Local Enforcement form.

IBC 907, WAC 51-50 907.10, and similar as applicable.



Decks, stairs, landings and guards which are not factory installed in the modules are not reviewed or approved by L&I. Local jurisdiction having authority is responsible for all review, approval and inspection of these items. Typical of all sheets, details and engineering related to these items.

All equipment must be installed per engineering & manufacturer's specifics, and in accordance with applicable listings. Manufacturer's installation instructions shall be available on the job site at the time of inspection.

Foundation plans and details are not reviewed by L&I, except for the reasonability of the design to support the modular building. Approval and inspection of the foundation system is the jurisdiction of the local building official. This is typical for all foundation related sheets, details and engineering contained within this plan set.

CODE ANALYSIS

THE STRUCTURE MEETS CONSTRUCTION REQUIREMENTS OF WAC-51-50 (IBC 2018) INTERNATIONAL BUILDING CODE AS AMENDED FOR WASHINGTON STATE GOLD LABEL INSIGNIAS.

THE STRUCTURE MEETS CONSTRUCTION REQUIREMENTS OF 2019 OREGON (IBC 2018) INTERNATIONAL BUILDING CODE AS AMENDED FOR OREGON STATE GOLD LABEL INSIGNIAS.

BUILDING TYPE:	VB	DESIGN LOADS:	30psf
OCCUPANCY GROUP: <td>E <td>ROOF LIVE: <td>N/A</td> </td></td>	E <td>ROOF LIVE: <td>N/A</td> </td>	ROOF LIVE: <td>N/A</td>	N/A
BUILDING USE: <td>CLASSROOM <td>PONDING: <td>N/A</td> </td></td>	CLASSROOM <td>PONDING: <td>N/A</td> </td>	PONDING: <td>N/A</td>	N/A
BUILDING AREA: <td>1773 SQ. FT. <td>FLOOR LIVE: <td>40psf</td> </td></td>	1773 SQ. FT. <td>FLOOR LIVE: <td>40psf</td> </td>	FLOOR LIVE: <td>40psf</td>	40psf
NUMBER OF OCCUPANTS (IBC TABLE 1006.1.2): <td>N/A <td>CLASSROOM: <td>N/A</td> </td></td>	N/A <td>CLASSROOM: <td>N/A</td> </td>	CLASSROOM: <td>N/A</td>	N/A
(AREA / FLOOR AREA PER PERSON): <td>N/A <td>N/A: <td>N/A</td> </td></td>	N/A <td>N/A: <td>N/A</td> </td>	N/A: <td>N/A</td>	N/A
CLASSROOM (NET) 1630 / 20 82	N/A <td>CONCENTRATED: <td>1,000lbs</td> </td>	CONCENTRATED: <td>1,000lbs</td>	1,000lbs
N/A	- / -	WIND LOAD: <td>13s</td>	13s
N/A	- / -	EXPOSURE: <td>B</td>	B
TOTAL OCCUPANTS:	82		

CLIMATE ZONE:	4C	SEISMIC DESIGN REQUIREMENTS:	DESIGN CATEGORY: D
WINDOW-TO-WALL RATIO:	+ 3.66%	DESIGN Sds:	1.20
		DESIGN Sd:	1.2

NOTES:
1. REFER TO PLAN AND SECTIONS FOR INSTALLED INSULATION VALUES

WASHINGTON (AS AMENDED BY WAC)

BUILDING CODE	2018 WSEC (BC)
MECHANICAL CODE	2018 WSEC (MC)
PLUMBING CODE	2018 WSPC (UPC)
ELECTRICAL CODE	2003 NEC
ENERGY CODE	2018 WSEC (ECC)

OREGON	2019 OSSC (2018 IBC)
BUILDING CODE	2019 OMSC (2018 IBC)
PLUMBING CODE	2021 OPSIC (2021 UPC)
ELECTRICAL CODE	2021 OESC (2020 NEC)
ENERGY CODE	2021 OEECC (2019 ASHRAE 90.1)

SHEET INDEX	
A-0	COVER SHEET
A-1	FLOOR PLAN
A-2	BUILDING SECTION
A-3	EXTERIOR ELEVATIONS
A-4	REFLECTED CEILING
E-1	ELECTRICAL PLAN
F-1	FOUNDATION PLAN
M&D	MECHANICAL PLAN

Onsite use and location of the modular building is the jurisdiction of the local building official. Site, grade and plot drainage plans are not reviewed by LNI.

Also see the NLEA (notice to local enforcement agency) form attached to this plan set. NLEA items may require review, approval and/or inspection by local authority having jurisdiction TYPICAL ALL SITE INSTALLED ITEMS

The building is approved only in a complete, detached, configuration. No fire rated assemblies are reviewed or approved in this structure. The structure must be located appropriately to achieve required fire separation from surrounding structures & property lines (actual or assumed) to meet all applicable codes.

L&I APPROVAL STAMP

STATE OF WASHINGTON
DEPT. OF LABOR AND INDUSTRIES
SPECIALTY COMPLIANCE SERVICES DIVISION
FACTORY ASSEMBLED STRUCTURES
PLAN APPROVAL #18FBS2200007

SUBJECT TO FIELD INSPECTION, OVERSIGHTS OR VIOLATION OF RCW/WAC ARE NOT INCLUDED/ APPROVED

Michael Luke DATE: 02/02/2023
EXPIRATION DATE: 02/02/2023

STATE OF WASHINGTON
DEPT. OF LABOR AND INDUSTRIES
FACTORY ASSEMBLED STRUCTURES
ELECTRICAL PLAN REVIEW

PLAN APPROVAL #18FBS2200007
BY: Jason Summers DATE: 01/20/2022

SUBJECT TO CODE AND FIELD INSPECTION



STATE OF OREGON
Prefabricated Structures Program
Secondary Review
APPROVED
02/02/2023
Plan # 22-47648
Also see OR documents with plan set

CUSTOMER NAME: ARIES BLDG. SYSTEMS
PROJECT NAME: 28X64 X6 STOCK CR
PROJECT DESIG.: MODULAR CLASSROOM
SHEET NAME: COVER SHEET

1428 SMOKEY POINT BLVD.
BLVD. #6, 07
MARTINELE, WA 98071
PHONE: 360.283.0725
FAX: 360.283.0725
WEB: WWW.WHITLEYINC.COM

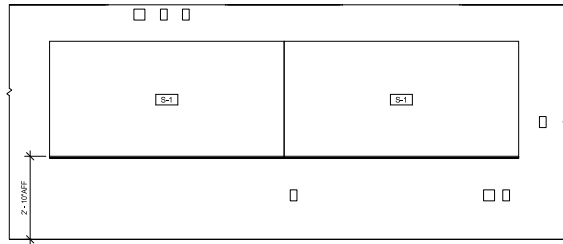
WHITLEY EVERGREEN, INC.
MOBILE AND MODULAR BUILDINGS

WHITLEY EVERGREEN

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JOB NUMBER: 4497
SHEET NO.: A-0.0
DATE: 11-19-21
SCALE: 1/4" = 1'-0"

RELEASE: PERMIT
STD PLAN NO.: 11-19-21-129-134
DRAWN BY: JMS
CHECKED BY: JMS
DATE: 11/19/21



2 WHITEBOARD ELEVATION CLASSROOM 101 MIRROR IMG.
1/2" = 1'-0"

MODULE DESIGN SUMMARY

A. DESIGN CRITERIA:

Roof Dead Load =	10 pcf	
Ceiling CDL =	2 pcf	
Floor Dead Load =	9 pcf	
Floor Partition Load =	0 pcf	
Wall Dead Load =	12 pcf	
Floor Live Load =	30 pcf	0 psf-Snow Drift
Floor Live Load =	40 pcf	1000 psf Conc. Load
Basic Wind Speed =	135 mph	
Exposure =	B	
Average Wind Load =	20.80 pcf	
Seismic Category =	Is = 1.00	Sds = 1.20
NW Seismic Category =	D	Sds = 1.20
Module Weight =	43098 #Module	

B. ROOF SHEATHING:
7/16 in. OSB 2416 rated sheathing over joists @ 24 in. o.c.

C. ROOF JOISTS:
2x12 SPPF2 OR Pre-fabricated Roof Trusses @ 24-inches o.c.
Rim Connection (7) @ 1.31 x 2.75 Nails or Hanger
ML Connection (7) @ 1.31 x 2.75 Nails or Hanger
For Uplift @ Eave <300 plf, use Ext. Wood Sheathing, & (2) @ 1.31 x 2.75 Nails End Nails @ ML.

D. MATELINE BEAM:
1.5 x 24 LVL Beam, Each Module
Trusses OR Simpson SDS Screws OR Thru-bolts @ 4-inch from bottom of beam @ 16" o.c.
Provide Braces to Roof @ Supports & 8'-0" o.c.

E. END COLUMNS:
C1 (1) 2x6 SPPF8 per module as exterior columns.
Additional Beating is Not Required
1-1.5x11.5 LVL Strap Top & Bottom Per Column

F. INTERMEDIATE COLUMNS:
C2 (2) 2x4 LVL OR HSS4x4x1/4 Long Dimension Flat Perpendicular to ML Beam
2x12 Vert Block w/ (2) SDS anchors @ OR 1.5 x 18x3/4 80 Ring Plate is required.
1-1.5x11.5 LVL Strap to Wood Column or (4) SDS25412 in 2x6x3" base plate for 80 Col.

G. EXTERIOR WALL STUDS:
2x6 @16" o.c. - OK, Inspection

H. MATELINE WALL STUDS:
Materline walls studs are NOT USED!

I. HEADERS:
Header 1 Endwall HVAC (1) 1.5x11.5 HF92, Roof Joist or Truss, maximum span = 3.25 ft. Endwall HVAC
Header 2 Endwall Door NOT USED
Header 3 Endwall Window NOT USED
Header 4 Sidelwall Door (1) 1.5x7.25 LVL, Rim, maximum span = 4.5 ft. Sidelwall Door
Header 5 Sidelwall Window (1) 1.5x7.25 LVL, Rim, maximum span = 4 ft. Sidelwall Window

K. SUBFLOOR SHEATHING:
3/4" 1/8" Floor Sheathing (45/24) over joists @ 16" o.c. w/ 8d @ 6" o.c. at boundary & panels edges and 12" o.c. in the field.

L. FLOOR RIM JOISTS:
(1) 1.5 x 7.25 LVL longitudinal rim joist(s) at each side w/ 6x12 supports @ 8 feet o.c., MAX OR Foundation Support

M. FLOOR JOISTS:
Classroom 2x6 HF92 floor joists @ 16 in. o.c..

O. ROOF SHEATHING:
7/16 in. OSB 2416 rated sheathing over joists @ 24 in. o.c., with blocked edges @ 0-ft., from each end @ 6" o.c. @ boundary edges
6" o.c. @ panel edges and 12" in the field

P. DOUBLE TOP PLATE STUDS:
(1) 2x6 chord (min.) w/ 12-124 nails @ each side of 2nd splice OR Continuous Member.

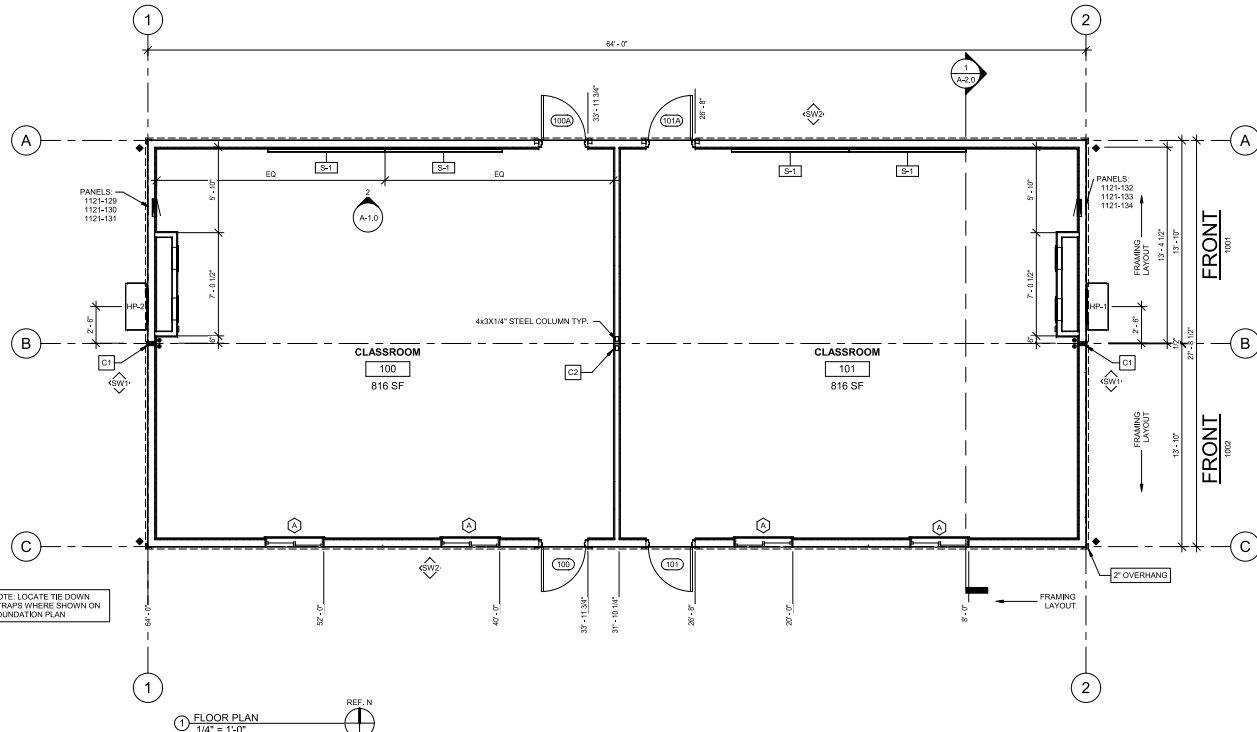
Module Endwall Tie: Simpson DT72Z OR A23x3/2 w/ (8) SDS2122 to Rim Joists or Top Plates as side of ML w/ 1/2" B Threaded Rod

Q. BUILDING ENDWALL SHEAR WALLS: (Module Short Walls)
Linear Foot of Shearwall:

Sheathing:
2x16" 1/2" Smart Panel" Sliding over 58" gyp'd with 8d common or galvanized box nails at 4" o.c. along siding edges and 12" o.c. in the field. Use (1) studs min. at adjoining panel edges. Block panel edges.
Hold-downs:
(1) 2x6 each with "Simpson" LSTA16 w/ (4)-0.148x2-1/2, Attach to Floor Rim & Wall Corner Studs to rim at Building Corners & Openings

R. BUILDING SIDE WALL SHEAR WALLS: (Module Long Walls)
Linear Foot of Shearwall:

41.36 ft.
Sheathing:
2x16" 1/2" Smart Panel" Sliding over 58" gyp'd with 8d common or galvanized box nails at 4" o.c. along edges and 12" o.c. in the field. Use (1) studs min. at adjoining panel edges. Block panel edges.
Hold-downs:
(1) 2x6 with no required straps at ends of shearwalls



NOTE: LOCATE TIE DOWN STRAPS WHERE SHOWN ON FOUNDATION PLAN

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

SPECIALTY EQUIPMENT SCHEDULE

MARK	COUNT	DESCRIPTION	MANUFACTURER	MODEL
S-1	4	36"x48" WHITE BOARD W/ TRAY & MAP RAIL	CLARIDGE	LCS DELUXE

ROOM FINISH SCHEDULE

MARK	ROOM NAME	AREA	NORTH WALL		EAST WALL		SOUTH WALL		CEILING		FLOOR		NOTES
			MATL	FINISH	MATL	FINISH	MATL	FINISH	MATL	HGT.	FINISH	BASE	
100	CLASSROOM	816 SF	GWB	VCTB	GWB	VCTB	GWB	VCTB	GWB	ACT	8'-0"	BO	BO
101	CLASSROOM	816 SF	GWB	VCTB	GWB	VCTB	GWB	VCTB	ACT	8'-0"	BO	BO	

DOOR SCHEDULE

MARK	DOOR DESCRIPTION	DOOR			FRAME		HARDWARE		ROUGH OPENING		ENVELOPE		DOOR GLAZING	
		WD	HGT	THK	MATERIAL	FINISH	TYPE	FINISH	SET	LATCH	WD	HGT		DOOR U-VALUE
100	HINGED SINGLE - FLUSH	3'-0"	8'-8"	1-3/4"	18 GA INS. METAL	PAINT	18GA WELDED HM PUNCHED& DIMPLED	PAINT	1	PANIC	3'-4 1/4"	8'-10 1/4"	0.37 DEFAULT	N/A
100A	HINGED SINGLE - FLUSH	3'-0"	8'-8"	1-3/4"	18 GA INS. METAL	PAINT	18GA WELDED HM PUNCHED& DIMPLED	PAINT	2	PANIC	3'-4 1/4"	8'-10 1/4"	0.37 DEFAULT	N/A
101	HINGED SINGLE - FLUSH	3'-0"	8'-8"	1-3/4"	18 GA INS. METAL	PAINT	18GA WELDED HM PUNCHED& DIMPLED	PAINT	1	PANIC	3'-4 1/4"	8'-10 1/4"	0.37 DEFAULT	N/A
101A	HINGED SINGLE - FLUSH	3'-0"	8'-8"	1-3/4"	18 GA INS. METAL	PAINT	18GA WELDED HM PUNCHED& DIMPLED	PAINT	2	PANIC	3'-4 1/4"	8'-10 1/4"	0.37 DEFAULT	N/A

WINDOW SCHEDULE

MARK	QTY.	DESCRIPTION	MFR.	MODEL	SIZE		SILL HGT.	HEAD HEIGHT	ROUGH OPENING	ROUGH OPENING	U VALUE	SHGC	COMMENTS	WINDOW AREA	TOTAL AREA
					WD.	HGT.									
A	4	WINDOW HORIZONTAL SLIDER, TEmPERED ALMOND VINYL FRAME	PRIME	5000	4'-7"	4'-9"	2'-8 1/4"	6'-3 1/4"	46"	46"	0.21 NFRC	0.21 NFRC	W/ SCREEN AND 1" ASCOT MINI R.L. INDS. GALV FLASHING INSTALLED UNDER SIDING AND OVER TOP FLANGE OF WINDOW UNDER TRIM	16 SF	64 SF

ROOM FINISH SCHEDULE LEGEND:
GWB- GYPSUM WALL BOARD TYPE-X
VCTB- VINYL WRAP TACKBOARD "CALCUTATA TAN"
ACT- ACUSTIC CEILING TILES
BO- BY OTHERS

DOOR HARDWARE LEGEND:
TYPE (1): LATCH: VON DUREN 220 PANIC BAR WITH LEVER TRIM DEVICE-SCHLAGE CYLINDER
CLOSER: LCN 1461 STAINLESS STEEL BALL BEARING- NRP
HINGES: ADA ADA
W/ STRAP: ADA ADA
SWEEP: ADA ADA

TYPE (2): LATCH: VON DUREN 220 PANIC BAR WITH NO EXT. DOOR HARDWARE
CLOSER: LCN 1461 STAINLESS STEEL BALL BEARING- NRP
HINGES: ADA ADA
W/ STRAP: ADA ADA
SWEEP: ADA ADA



CUSTOMER NAME: ARIES BLDG. SYSTEMS
PROJECT NAME: 28X64 X6 STOCK CR
PROJECT DESC.: MODULAR CLASSROOM
SHEET NAME: FLOOR PLAN

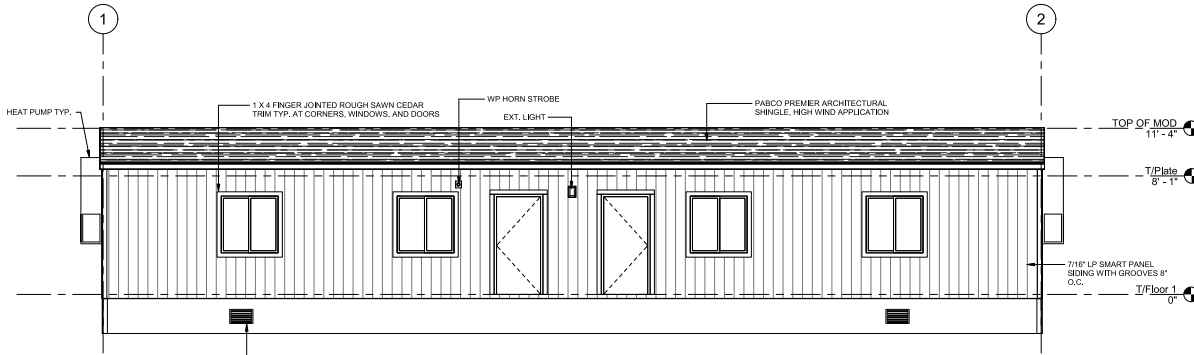
1428 SANDY POINT BLVD.
BLDG. NO. 01
WAINWRIGHT, WA 98071
PHONE: 360.293.7250
FAX: 360.293.7252
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MOBILE AND MODULAR BUILDINGS

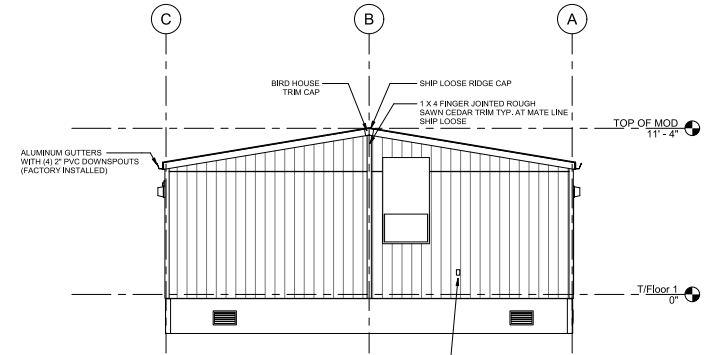
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DATE: 11-19-21
SCALE: As Indicated

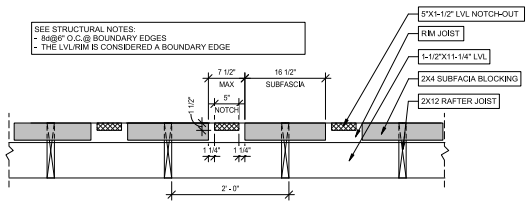
RELEASE: PERMIT
STD PLAN NO:
DRAWN BY: BME
CHECKED BY:
DATE:



3 CURB SIDE
1/4" = 1'-0"



2 FRONT END
1/4" = 1'-0"

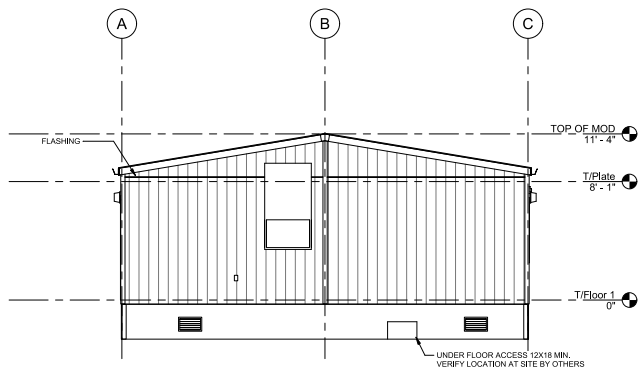


5 ROOF VENTING DETAILS
1" = 1'-0"

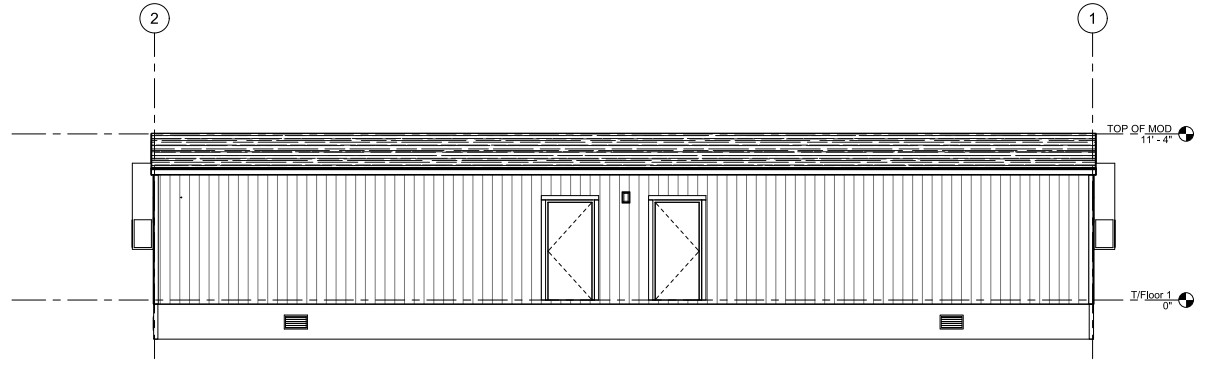
ROOF VENT CALCULATION: (IBC 2018 SECTION 1202 - VENTILATION)
VENTING REQUIRED:
 ROOF AREA = 1773 SQ. FT./900=5.91 SQ. FT. X 144 = 851.04 SQ. IN. REQUIRED
VENTING PROVIDED:
 64 BAYS BETWEEN RAFTERS: 8" X 1-1/2" = 7.125 SQ. IN. X 64 BAYS = 458.00 SQ. IN.
 VENT CAP: 185Q. IN. PER LIN. FT. = 185Q. IN. X 2.46 FT = 905.52 SQ. IN.

SKIRTING PACKAGE: (SHIP LOOSE)
 -161 4X 8 X 1/2" PAINTED PT CDX
 -PLY WOOD WITH CORNERS
 -8" X 16" VENTS

FOUNDATION VENT CALCULATION:
 27 8 1/2" X 64" = 1773 SQ. FT./1500=1.18 SQ. FT. X 144 = 169.92 SQ. IN. REQUIRED
VENTING PROVIDED:
 8 SCREENED FOUNDATION VENTS @ 75 SQ. IN. EA. = 600.00 SQ. IN.
 TOTAL PROVIDED 600.00 SQ. IN.



4 REAR END
1/4" = 1'-0"



1 ROAD SIDE
1/4" = 1'-0"

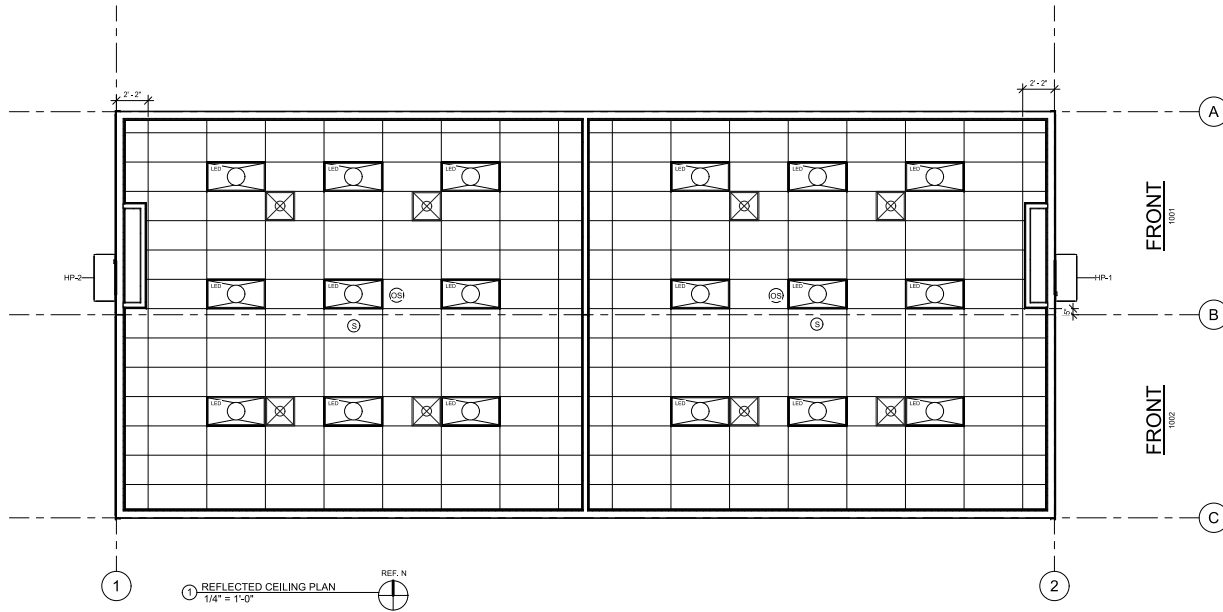


RELEASE PERMIT	DATE	BY
NO.		
PROJECT NO.	18FBS220007	
PROJECT NAME	ARIES BLDG. SYSTEMS 28X64 X6 STOCK CR MODULAR CLASSROOM	
PROJECT DESIG.	WHITLEY EVERGREEN	
DRAWN BY	DM	
CHECKED BY		
DATE	11-19-21	
SCALE	AS INDICATED	
JOB NUMBER	4497	
SHEET NO.	A-3.0	
DATE	11-19-21	
SCALE	As indicated	

1428 SANDY POINT BLVD.
 BLDG. NO. 10
 WAINWRIGHT, WA 98071
 PH: 360.893.7750
 FAX: 360.893.7750
 WEB: WWW.WHITLEYMAN.COM

WHITLEY EVERGREEN, INC.
 MOBILE AND MODULAR BUILDINGS

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


1 REFLECTED CEILING PLAN
1/4" = 1'-0"



REFLECTED CEILING PLAN LEGEND

NOTE: SUSPENDED CEILING GRID (24" GRID) W/ ARMSTRONG "CORTEGA" #763A CEILING TILES. INSTALL CEILING PER IBC SECTION 806, ASTM C 635, & ASTM C 636. IN PLACE OF 2" WALL ANGLE, INSTALL 1-1/8" WALL ANGLE W/ ARMSTRONG BERG CLIPS ON TWO ADJOINING WALLS. RIVET CROSS TEES TO OPPOSITE WALL ANGLES. ENSURE SITE INSTALLED CROSS TEES AT MATELINE ARE SECURELY FASTENED. SEE HWCB TECHNICAL FIELD DETAIL #401 FOR ADDITIONAL DETAILS AND INFORMATION.

-  SUPPLY AIR DIFFUSER, 24"x24" DUCTED, LAY IN STYLE
-  RECESSED (GRID CEILING) LED LIGHT W/ DIFFUSER
-  OCCUPANCY SENSOR, FOR CONTROLLED RECEPTACLES
-  SMOKE DETECTOR BY OTHERS
-  24" SUSPENDED CEILING GRID WITH ACOUSTIC TILES



CUSTOMER NAME: ARIES BLDG. SYSTEMS PROJECT NAME: 28X64 X6 STOCK CR PROJECT DESC.: MODULAR CLASSROOM SHEET NAME: REFLECTED CEILING		RELEASE: PERMIT SN: 1121-129-134 STD PLAN NO: DRAWN BY: WJDP CHECKED BY: DATE:
14218 SANDY POINT BLVD., BLDG. NO. 10, WAINWRIGHT, VA 24071 PHONE: 304.293.7750 FAX: 304.293.7750 WEB: WWW.WHITLEYEVERGREEN.COM		NO. DESCRIPTION DATE BY 2 PERMIT 11/19/21 1 TC/JSZ 1 DATE

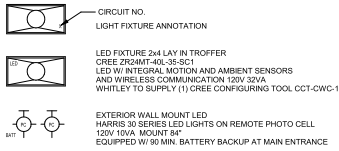
WHITLEY EVERGREEN, INC.
 MOBILE AND MODULAR BUILDINGS

W-E WHITLEY EVERGREEN

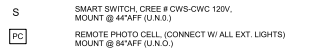
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JOB NUMBER: **4497**
 SHEET NO.: **A-5.0**
 DATE: **11-19-21**
 SCALE: **1/4" = 1'-0"**

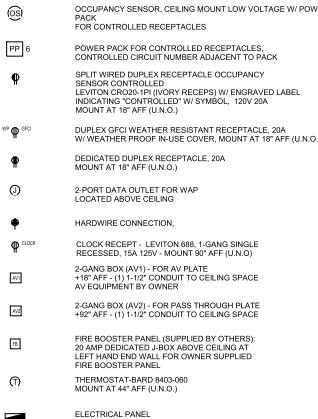
LIGHTING FIXTURES



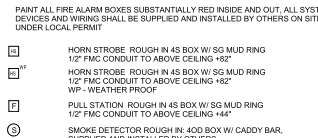
LIGHTING CONTROLS



POWER AND COMM DEVICES



FIRE ALARM DEVICES



GENERAL

1. ALL DIMENSIONS ARE IN INCHES FROM FINISH FLOOR TO CENTER OF BOX UNLESS NOTED OTHERWISE.
2. DEFINITIONS: U.N.O. - UNLESS NOTED OTHERWISE AFF - ABOVE FINISH FLOOR
3. ITALICS INDICATE WORK DONE ON SITE

ELECTRICAL

1. BUILDING TO BE WIRED IN MC, EMT, OR FLEX
2. TYPICAL WIRE SIZES:
15 AMP - #14 CU 30 AMP - #10 CU
20 AMP - #12 CU 35 AMP - #8 CU
3. SERVICE ENTRANCE - BY OTHERS
4. ALL RECEPTACLES TO BE INSTALLED 18" A.F.F. TO CENTER OF RECEPTACLE, UNLESS OTHERWISE SPECIFIED.
5. GROUNDING FAULT CIRCUIT PROTECTION REQUIRED FOR ALL RECEPTACLES IN WET AREAS.
6. ALL CONDUCTORS AND CONDUITS SHALL BE SIZED AND INSTALLED TO COMPLY WITH THE 2020 N.E.C. AND 2021 O.E.S.C.
7. ELECTRICAL PANEL SUPPLIED BY SQUARE D. WHITLEY RECOMMENDS THAT SQUARE D MAIN PANEL, BE USED ON SITE TO ENSURE ALL EQUIPMENT IS COMPATIBLE FOR COORDINATION.
8. ALL CONSTRUCTION MEANS AND METHODS SHALL COMPLY WITH NEC 2020, WAC 296-46B AND 2021 O.E.S.C.
9. ALL INDICATED WIRE SIZES BASED ON 75 DEG EQUIPMENT TERMINAL RATINGS IN ACCORDANCE WITH NEC 310-16. WHERE EQUIPMENT IS PROVIDED AT LESS THAN 75 DEGREE, CONTRACTOR SHALL PROVIDE CONDUIT SIZE ADJUSTED ACCORDINGLY TO REFLECT EQUIPMENT RATINGS.
10. MIN 50% OF RECEPTACLES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR OR TIME CLOCK PER WSEC C406.10. ANY NON CONTROLLED RECEPT MUST BE LOCATED WITHIN 6'-0" OF A CONTROLLED RECEPT. CONTROLLED RECEPT SHALL BE MARKED WITH ENGRAVING BY RECEPT MFR. AS "CONTROLLED"
11. LIGHT FIXTURES SHALL BE EQUIPPED W/ ENHANCED LIGHTING CONTROLS PER WSEC C406.4. 30% OF TOTAL INSTALLED LIGHTING POWER SHALL BE CAPABLE OF CONTINUOUS DIMMING AND BE ADDRESSABLE.
12. TOTAL LIGHTING POWER SHALL BE LESS THAN 75% OF AMOUNT CALCULATED PER TABLES C406.4.2 (1) OR C406.4.2 (2) TO MEET WSEC C406.3 REDUCED LIGHTING POWER
13. WSEC C411 SOLAR ARRAY, INVERTER(S), METERING, AND SERVICE PANEL LOCATED AT ADJACENT BUILDING

LIGHTING BUDGET CALCULATIONS

MAXIMUM ALLOWED INTERIOR LIGHTING WATTAGE (SPACE BY SPACE METHOD)

SPACE TYPE	AREA	VA/SF	VA ALLOWED
CLASSROOM	1632	1.00	1632
TOTAL VA ALLOWED			1632 VA

LIGHT REDUCTION / REDUCED LIGHTING POWER (PER WSEC C406.3.1)

TOTAL VA ALLOWED x 0.75 = 1632 x 0.75 = 1224 VA ALLOWED PER SECTION C406.4 ADDITIONAL EFFICIENCY OPTIONS

PROPOSED INTERIOR LIGHTING WATTAGE:

(1) LED TROFFERS AUTO DIMMABLE @ 32.0 VA 576

TOTAL PROPOSED INTERIOR LIGHTING VA 576 VA

PERCENTAGE OF INSTALLED INTERIOR LIGHTING CONFIGURED WITH ENHANCED CONTROL FUNCTIONS (WSEC C406.4)

100% / 18 LIGHTS = 5.56% PER LIGHT. 18LTS W/ ENHANCED CONTROLS. X 5.56 = 100%

MAXIMUM ALLOWED EXTERIOR TRADABLE LIGHTING WATTAGE:

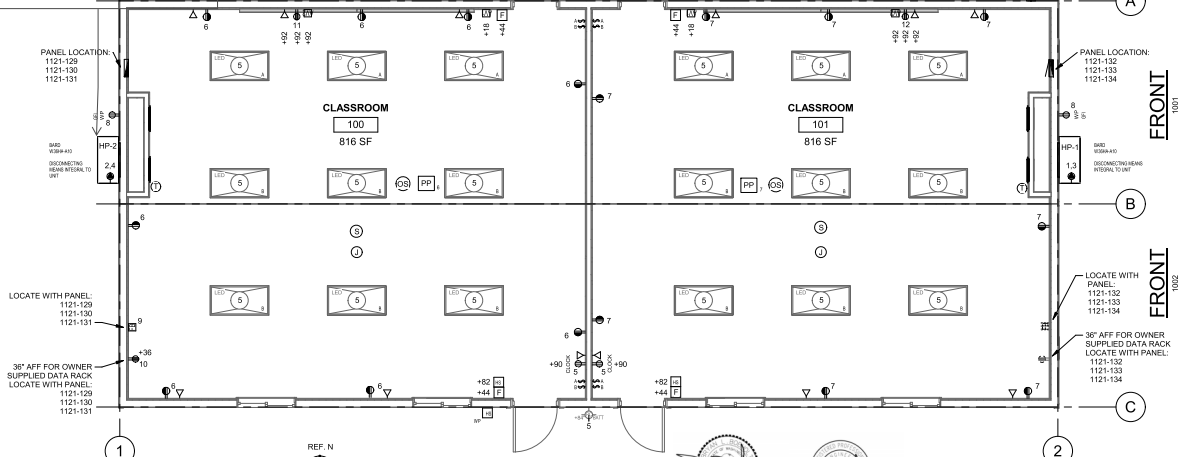
TRADABLE SURFACE	WATTS/LF	LF	VA ALLOWED
MAIN ENTRY	30	6	180
OTHER ENTRY	20	6	120
BASIC SITE ALLOWANCE ZONE 3			750
TOTAL VA ALLOWED			+ 1050

PROPOSED EXTERIOR LIGHTING WATTAGE:

(2) WALL MOUNT LED FIXTURES @10VA 20

TOTAL PROPOSED LIGHTING VA +20

WAC 296.46B 110.022 Identification plates on disconnecting means are to show designation of circuit source panel board that supplies disconnect, circuit numbers and identify what it is disconnecting. Must be an IDENTIFICATION PLATE (Not a sticker) (HVAC disc, etc.)

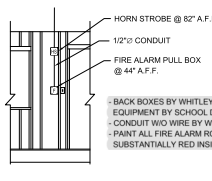


ELECTRICAL PLAN
1/4" = 1'-0"

NEC 406.3E Controlled Receptacle Marking. All nonlocking type, 125 volt, 15 and 20amp receptacles that are controlled by an automatic control device, or that incorporate control features that remove power from the outlet for the purpose of energy management or building automation, shall be marked with the symbol shown in figure 406.3E and located on the controlled receptacle outlet where visible after installation. See NEC 406.3E for image of required control receptacle marking.

NEC 780.41B
Also see NEC 780.121B
Fire alarm circuit breaker shall have red identification and be identified as fire alarm circuit, the red identification shall not damage the OCP device or obscure the manufacturers markings.

ALARM ROUGH-IN DETAIL



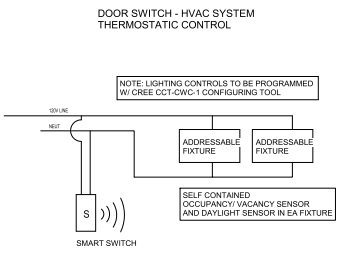
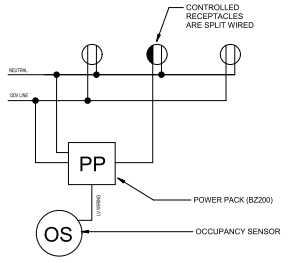
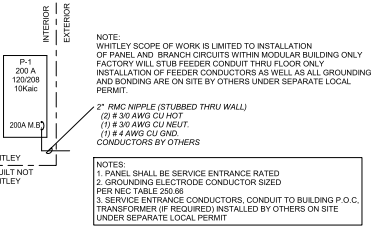
SOLAR READINESS

THIS STRUCTURE IS DESIGNED FOR COMPLIANCE WITH THE REQUIREMENTS OF THE 2018 WASHINGTON STATE ENERGY CODE (WSEC) SECTION C411 FOR A SOLAR READINESS USING A SOLAR ARRAY MOUNTED ON AN ADJACENT BUILDING AS NOTED ON PLAN SHEET(S) E-1.

THE MINIMUM REQUIRED AREA IS BASED ON SECTION C411.2 ITEM:
1. 40% OF THE ROOF AREA AT 662_SQ_FT. (1,830SF/40%)
2. 20% OF THE ELECTRICAL SERVICE SIZE AT 832_SQ_FT.

200A SERVICE
200A X 20% = 200 X 2 = 40A
40A X 200V = 8,000W
10 PEAK WATTS OF PV PER SF
8,000W / 110W/SF
832SF REQUIRED

Engineers Disclaimer: I have reviewed the plans to be submitted to the authority having jurisdiction and they appear to be in compliance with Washington State and Oregon State regulations. Approval and provided Professional Engineer stamp is applicable to the building depicted in these documents only.



Branch Panel: P-1

Location: CLASSROOM 100
Supply From:
Mounting: Recessed
Enclosure: NEMA 1

Volts: 120/208 single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: FIXED
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	90 A	2 Poles	A	B	Poles	Tripp	Circuit Description	CKT
1	HP-1	2		7448 VA	7448 VA	2		90 A HP-2	2
3	-	-	-	-	7448 VA	7448 VA	-	-	4
5	LIGHTING INT EXT	20 A	1	1012 VA	1440 VA	1	20 A	RECEPTACLES	6
7	RECEPTACLES	20 A	1	1440 VA	360 VA	1	20 A	EXT RECEPTACLES	8
9	DED REC - FIRE BOOSTER PANEL - 100	20 A	1	500 VA	500 VA	1	20 A	DED RECEPT - DATA RACK - 100	10
13	DED RECEPTACLE - 100	20 A	1	-	180 VA	1	20 A	DED RECEPTACLE - 101	14
11	-	-	-	-	-	-	-	-	12
15	-	-	-	-	-	-	-	-	16
17	-	-	-	-	-	-	-	-	18
19	-	-	-	-	-	-	-	-	20
21	-	-	-	-	-	-	-	-	22
23	-	-	-	-	-	-	-	-	24
25	-	-	-	-	-	-	-	-	26
27	-	-	-	-	-	-	-	-	28
29	-	-	-	-	-	-	-	-	30
Total Load:				18348 VA	17056 VA				
Total Amps:				175 A	164 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	500 VA	100.00%	500 VA	
Heating	20000 VA	100.00%	20000 VA	Total Conn. Load: 35404 VA
Lighting	652 VA	125.00%	815 VA	Total Est. Demand: 35659 VA
Motor	9782 VA	110.23%	10784 VA	Total Conn.: 170 A
Receptacle	4450 VA	100.00%	4450 VA	Total Est. Demand: 175 A

Notes:

RELEASE PERMIT
STAMP NO. 1121-129-134
PROJECT NAME: 28X64 X6 STOCK CR
PROJECT NO.:
SHEET NO.:
DATE: 11-19-21
BY: [Signature]
CHECKED BY: [Signature]

CUSTOMER NAME: ARIES BLDG. SYSTEMS
PROJECT NAME: 28X64 X6 STOCK CR
PROJECT NO.:
SHEET NO.:
DATE: 11-19-21
BY: [Signature]
CHECKED BY: [Signature]

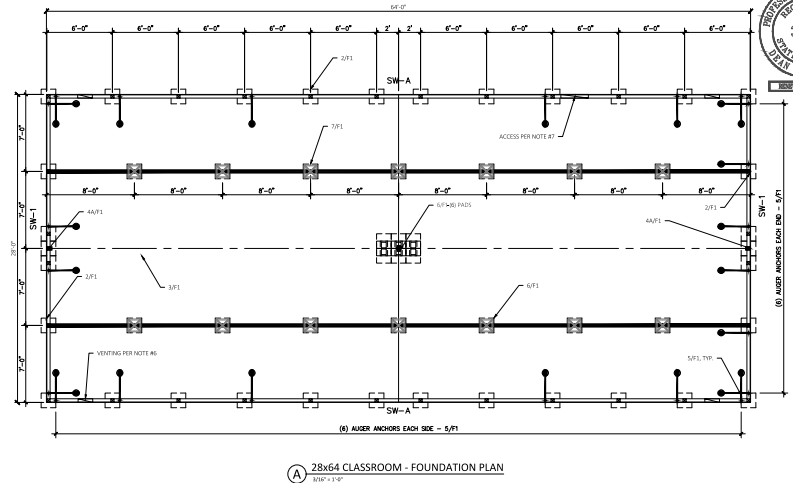
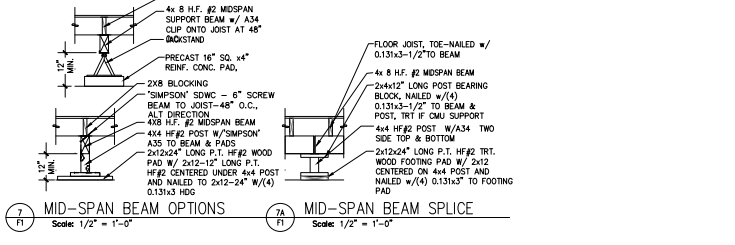
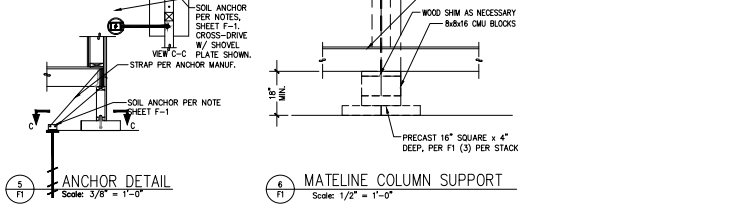
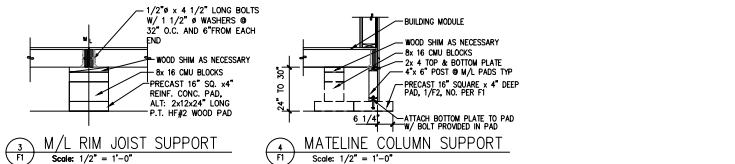
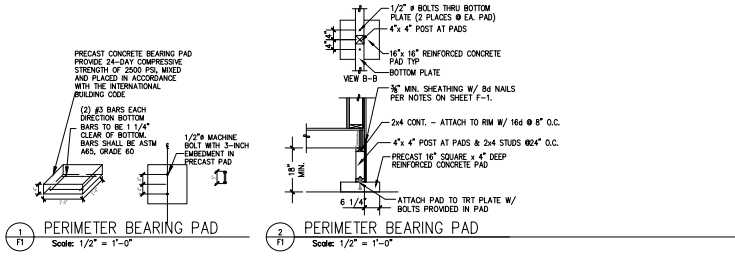
1428 S. BUCKLEY FRONT BLVD.
BLDG. NO. 10
MARTINELLI, WA 98071
PHONE: 360.669.7272
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WWW.WHITLEYMAN.COM

WHITLEY EVERGREEN, INC.
MOBILE AND MODULAR BUILDINGS

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JOB NUMBER: 4497
SHEET NO.: E-1.0
DATE: 11-19-21
SCALE: As indicated

Expires 02/02/2023



STRUCTURAL NOTES:

- GENERAL**
 - 1.1. OVERALL DIMENSION ARE FOR FOUNDATION FRAMING. VERIFY DIMENSIONS OF MODULAR BUILDING PRIOR TO FABRICATING AND INSTALLING FOUNDATION.
- DESIGN INFORMATION & LOADING**
 - 2.1. BUILDING CODE: IBC, 2018 EDITION, OCS 2019
 - 2.2. ROOF LIVE LOAD: 30 PSF, SNOW
 - 2.3. FLOOR LIVE LOAD: 40 PSF OR 1,000# CONC.
 - 2.4. WIND CRITERION: 150 MPH, DCP & RSL-10
 - 2.5. SEISMIC CRITERION: SDS=1.2, I=0, SEISMIC CATEGORY D
 - 2.6. ASSUMED SOIL BEARING: 1500 PSF, SEE CLASS D
- CONCRETE**
 - 3.1. DESIGN COMP. STRENGTH: 2,500 PSI
 - 3.2. FRESH YIELD: 60 KSI
- MASONRY**
 - 3.1. BRICK UNITS: ASTM C-90, GRADE N
 - 3.2. SET UNITS: WIDESPREAD VERTICAL & NO MORE THAN 3 HIGH, PER PLAN W/O GROUING
- WOOD**
 - 4.1. ALL WOOD TO BE HEAR-FR STUD GRADE OR BETTER.
 - 4.2. WOOD FRAMING AND SHEATHING WITHIN 6 INCHES OF GRADE TO BE TREATED FOR EXPOSURE.
 - 4.3. CONNECTORS IN OR ADJACENT TO TREATED MATERIALS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- SPECIALTY ITEMS**
 - 5.1. MINUTE MAN PRODUCTS, Inc. OR EQUIVALENT, (www.minutemanproducts.com, 800) 439-7277
 - 5.2. METAL PIER'S SUPPLIED WITH TOP CLAMPS TO SECURE PER TOP PLATE TO STEEL BEAMS. SECURE BASE OF PIER TO CONCRETE PAD WITH (2) 1/4" DRIVEN PINS AT OPPOSITE CORNERS. PIERS TO BE CAPABLE OF SUPPORTING GROUND.
 - 5.3. SOIL LATERAL ANCHORS SHALL BE AUGER-TYPE SET VERTICAL W/STABILIZER PLATE.
 - 5.4. SOIL UP/LIFT ANCHORS SHALL BE AUGER-TYPE SET VERTICAL.
 - 5.5. SOIL ANCHORS TO HAVE AN ULTIMATE DESIGN LOAD OF 4,725#.
 - 5.6. INSTALL GROUND PORTION OF THE ANCHOR PRIOR TO SETTING THE BUILDING.
 - 5.7. CONNECT ANCHOR TIES TO BUILDING ONLY AFTER BUILDING IS FULLY BLOCKED AND LEVELLED.
 - 5.8. ANCHOR STRAPS SHALL BE AS PROVIDED BY ANCHOR MANUFACTURER.
 - 5.9. SET ANCHORS SO THE STRAPS WILL BE AT 45° TO 40° FROM HORIZONTAL.
 - 5.10. INSTALL ALL SPECIALTY ITEMS PER THE MANUFACTURERS RECOMMENDATIONS.
- VENTS**
 - 6.1. INSTALL CLASS 1 VAPOR RETARDER, 6 MIL, BLACK POLYETHYLENE SHEET, OR EQUAL, UNDER ENTIRE BUILDING AND UP SKIRTING RIM LAP JOINTS A MINIMUM OF GANCHES.
 - 6.2. PROVIDE UNDER FLOOR VENTILATION PER IBC CODE AND LOCAL REQUIREMENTS AT 1 NET SF OF VENTILATION PER 150 SF OF FLOOR AREA OR PER LOCAL CODE.
- ACCESS**
 - 7.1. PROVIDE ACCESS TO THE UNDER FLOOR AREA PER THE CODE.
 - 7.2. PROVIDE 18" MIN. CLEARANCE FROM SOIL TO UNDERSIDE OF ANY UNTREATED WOOD MEMBER.
 - 7.3. PROVIDE 12" MIN. CLEARANCE UNDER FROM SOIL TO UNDERSIDE OF ALL BUILDING MEMBERS.
- SITE CONDITIONS**
 - 8.1. SUBGRADE TO BE UNDISTURBED NATIVE SOILS OR STRUCTURAL FILL, COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY PER ASTM D-998.
 - 8.2. PROVIDE A MIN. 4 INCH THICK ROAD-BASE FOUNDATION BASE, COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY PER ASTM D-998.
 - 8.3. SLOPE FINISHED GRADE AWAY FROM THE BUILDING FOUNDATION AT A MIN. GRADE OF 2%.

Foundation plans and details are not reviewed by L&L, except for the reasonability of the design to support the modular building. Approval and inspection of the foundation system is the jurisdiction of the local building official. This is typical for all foundation related sheets, details and engineering contained within this plan set.

WHITLEY EVERGREEN INC.
mobile and modular buildings
11429 SMOKEY POINT BLVD.,
MOUNTAIN VIEW, CO. 80501
PHONE: (303) 853-3290

W-E
WHITLEY EVERGREEN

BRIGGS ENGINEERING, INC.
B.R.I.G.G.S.
CIVIL, STRUCTURAL, SURVEY
5099 W. STATE ST., W. GARDEN CITY, CO. 80530 (303) 344-7000
FAX: (303) 344-7001
WWW.BRIGGSENGINEERING.COM

WHITLEY EVERGREEN
"STOCK" BUILDING FOUNDATION
MODULAR BUILDING FOUNDATION
28' x 64' CLASSROOM BUILDING

SCALE: AS SHOWN

DWG. NO.: 202100.09.1-F1-1
DATE: NOVEMBER 2021

REVISION: 11/30/2021 BY: DB

SHEET: **F1**

WKE PERRY - WE

