

December 29, 2023

Mr. Thomas Campbell
Florida Department of Business and Professional Regulation
Codes & Standards Office
2601 Blair Stone Road, Building C
Tallahassee, FL 32399-0772

RE: Manufacturer: Premier Portable
Agency Plan Number: Utility Shed 23

Dear Mr. Campbell,

Architectural Testing Inc., an Intertek company ("Intertek-ATI"), part of Intertek¹ Building Science Solutions, in accordance with the requirements of the Florida Department of Business and Professional Regulations, the above-referenced documents have been reviewed for compliance with:

2023 Florida Building Code, 8th Edition with Latest Supplements
2020 National Electrical Code (NFPA-70-20)

This approval covers the factory-built structure only. Any alterations to the factory-built structure on site would avoid approval. This plan is subject to the following:

- This plan is Not Approved for High-Velocity Hurricane Zone (i.e., Broward and Miami/Dade Counties)
- Signed and sealed plans are on file with Intertek-ATI
- Chapter 633 Plan Review and Inspection shall be conducted by the local fire and safety inspector
- Items installed on-site are subject to review and approval by the local authority having jurisdiction.
- This review includes products for compliance with 553.8425 or FAC Chapter 61G20-3

If you have any questions or require our assistance, please do not hesitate to contact us.

Respectfully submitted,

Ryan Knowles

Ryan Knowles
Senior Manager
Building Science Solutions

^[1] Intertek is a brand name representing the Intertek Group plc legal entities, including but not limited to, Intertek Testing Services NA Inc., Professional Service Industries, Inc. ("INTERTEK-PSI"), Architectural Testing Inc. ("INTERTEK-ATI"), and MT Group Inc. ("INTERTEK-MT").
www.intertek.com/building



1 of 7

FASTENING SCHEDULE (2304.10.1 FBC)		
CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON (25"x0.131") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
2. BRIDGING TO JOIST	2 - 8d COMMON (25"x0.131") 2 - 3"x0.131" NAILS 2 - 3" 14 GAGE STAPLES	TOE-NAIL EACH END
3. SOLE PLATE TO JOIST OR BLOCKING	16d (35"x0.135") @ 16" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 12" o/c	TYPICAL FACE NAIL
4. SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL	3 - 16d (35"x0.135") @ 16" o/c 4 - 3"x0.131" NAILS @ 16" o/c 4 - 3" 14 GAGE STAPLES @ 16" o/c	BRACED WALL PANELS
5. TOP PLATE TO STUD	2 - 16d (35"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
6. STUD TO SOLE PLATE	4 - 8d COMMON (25"x0.131") 4 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
	2 - 16d COMMON (35"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
7. DOUBLE STUDS	16d (35"x0.135") @ 24" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 8" o/c	FACE NAIL
8. DOUBLE TOP PLATES	16d (35"x0.135") @ 16" o/c 3"x0.131" NAILS @ 12" o/c 3" 14 GAGE STAPLES @ 12" o/c	TYPICAL FACE NAIL
	8 - 16d COMMON (35"x0.162") 12 - 3"x0.131" NAILS 12 - 3" 14 GAGE STAPLES	LAP SPLICE
9. BLOCKING BETWEEN JOISTS OR TRUSSES TO TOP PLATE	3 - 8d COMMON (25"x0.131") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
10. TOP PLATES, LAPS AND INTERSECTIONS	2 - 16d (35"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL
11. CONTINUOUS HEADER (2) PIECES	8 - 16d COMMON (35"x0.162")	16" o/c ALONG EDGE
12. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (25"x0.131")	TOE-NAIL
13. BUILT-UP CORNER STUDS	16d (35"x0.135") @ 24" o/c 3"x0.131" NAILS @ 16" o/c 3" 14 GAGE STAPLES @ 16" o/c	@ 24" o/c @ 16" o/c @ 16" o/c
14. DOUBLE TOP PLATES	20d (4"x0.192") @ 32" o/c 3"x0.131" NAILS @ 24" o/c 3" 14 GAGE STAPLES @ 24" o/c	FACE NAIL @ TOP & BOTTOM STAGGERED ON OPP. SIDES
	2 - 20d COMMON (4"x0.192") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL @ ENDS AND AT EACH SPLICE
15. JOIST TO BAND JOIST	3 - 16d COMMON (35"x0.162") 4 - 3"x0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
16. WOOD STRUCTURAL PANELS AND PARTICLE BOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6dJ 25"x0.113" NAIL ¹ 1 1/2" 16 GAGE ² 8d ³ OR 25"x0.113" NAIL ⁴ 2" 16 GAGE ⁵ 8d ⁶ 3/8" TO 1" 10d ⁷ OR 8d ⁸ 1/8" TO 1/4"	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)		
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" AND LESS 6d ⁹ 3/8" TO 1" 8d ¹⁰ 1/8" TO 1/4" 10d ¹¹ OR 8d ¹²	
17. 29ga. STEEL SIDING (TO FRAMING)	1/2" OR LESS 6d ¹³ 3/4"	NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
18. FIBERBOARD SHEATHING ⁹	1/2" NO. 11 GAGE ROOFING NAIL ¹⁴ 6d COMMON NAIL (2"x0.113") NO 16 GAGE STAPLE ¹⁵ 3/8" NO. 11 GAGE ROOFING NAIL ¹⁴ 8d COMMON NAIL (25"x0.131") NO 16 GAGE STAPLE ¹⁵	

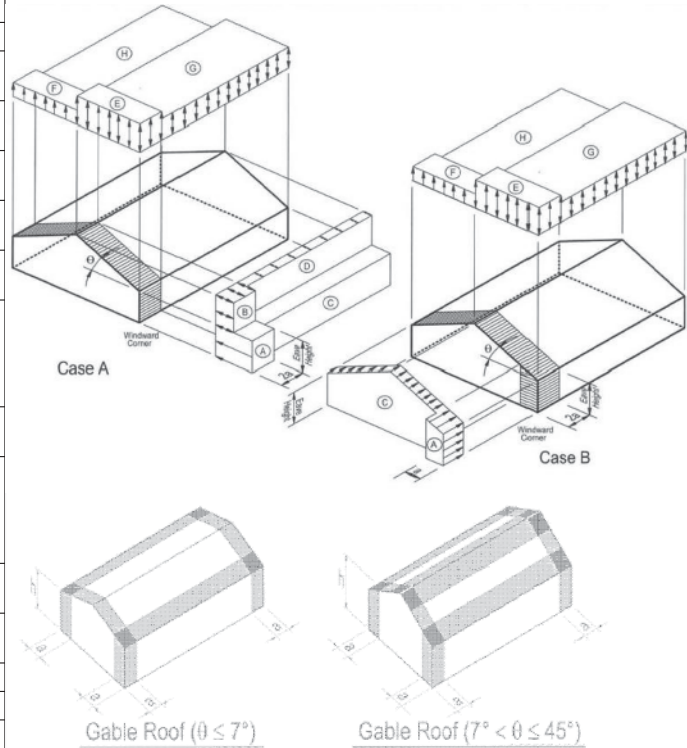
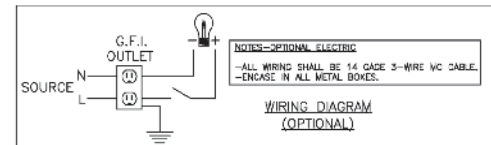
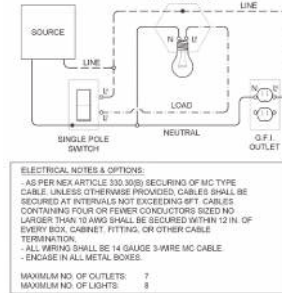
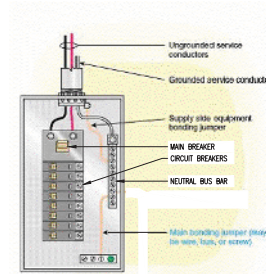
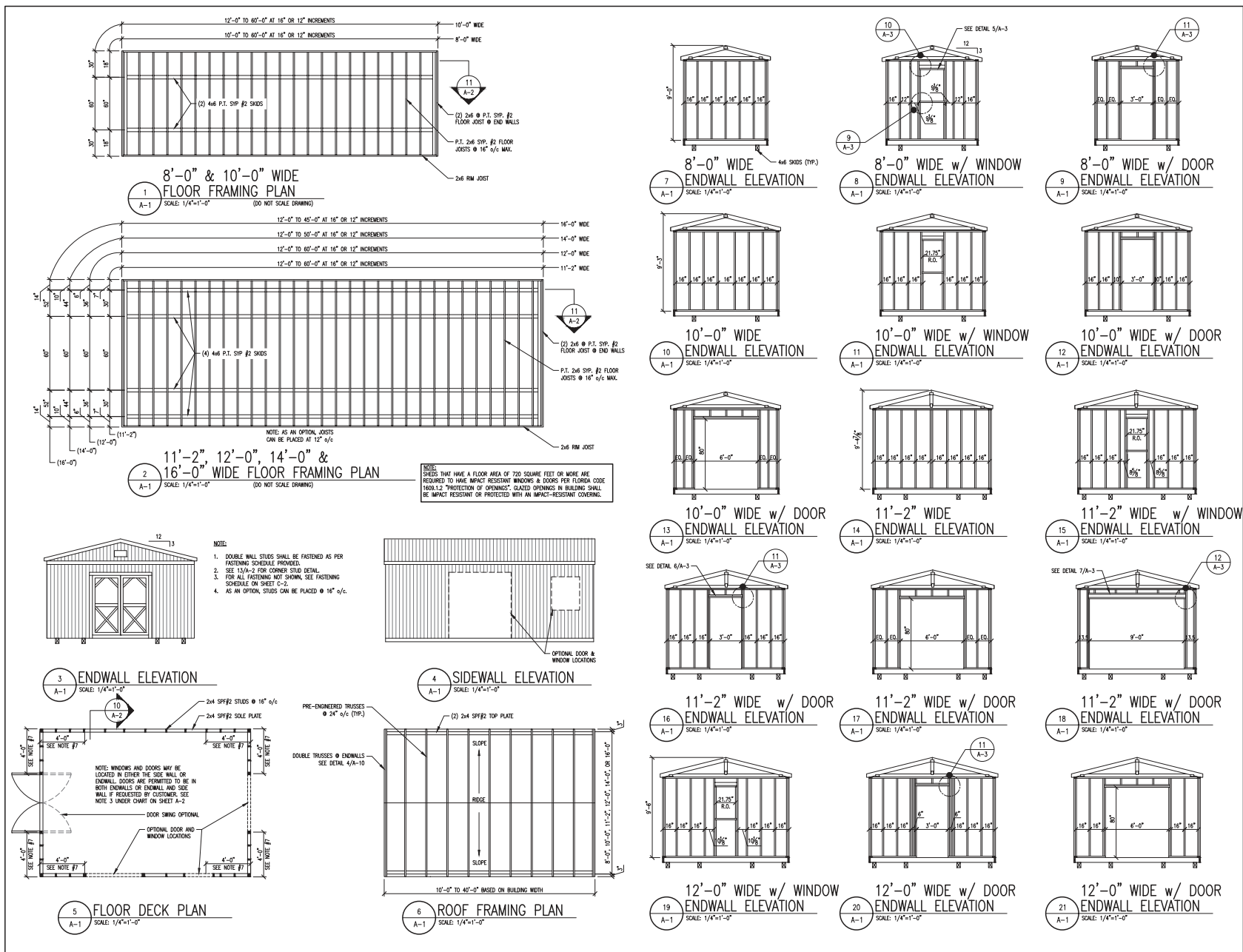


FIGURE 1609.6.2.2 COMPONENT AND CLADDING PRESSURE

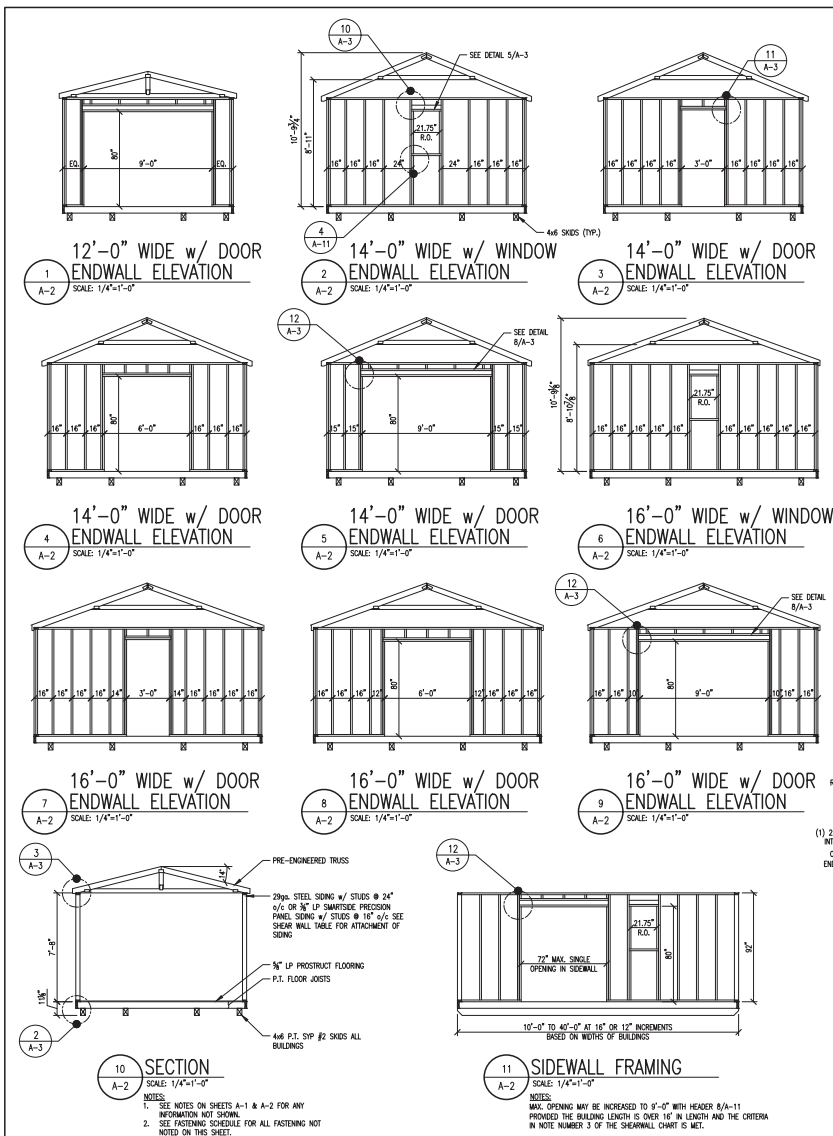
- COMMON OR BOX NAIL ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
- NAILS SPACED @ 6" o/c AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 4" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305 FBC. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CAGING.
- COMMON OR DEFORMED SHANK (6d - 2"x0.113", 8d - 25"x0.131", 10d 3"x0.148").
- COMMON (6d - 2"x0.113", 8d - 25"x0.131", 10d 3"x0.148").
- DEFORMED SHANK (6d - 2"x0.113", 8d - 25"x0.131", 10d 3"x0.148").
- CORROSION-RESISTANT SIZING (6d - 15"x0.108", 8d - 25"x0.128") OR CAGING (6d - 15"x0.108", 8d - 25"x0.128").
- FASTENERS SPACED 3" o/c AT EXTERIOR EDGES AND 6" o/c AT INTERMEDIATE SUPPORTS WHEN USED AS STRUCTURAL SHEATHING.
- CORROSION-RESISTANT ROOFING NAILS w/ 3/4" DIAMETER HEAD AND 1 3/4" LENGTH FOR 3/4" SHEATHING AND 1 3/4" LENGTH FOR 1/2" SHEATHING.
- CORROSION-RESISTANT STAPLES WITH NOMINAL 3/4" CROWN OR 1" CROWN AND 1 3/4" LENGTH FOR 3/4" SHEATHING AND 1 3/4" LENGTH FOR 1/2" SHEATHING. PANEL SUPPORTS @ 16" o/c/20" IF STRENGTH ADD IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED.
- FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (25"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 3/4".
- FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS.
- FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" o/c AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- FASTENERS SPACED 4" o/c AT EDGES, 8" AT INTERMEDIATE SUPPORTS.



AREA FOR APPROVAL STAMPS			
Ocala Florida Shop DBA FLORA-BAMA MFG 3082 NE 24TH STREET Ocala FL 34470			
PROJECT: UTILITY SHED			
FASTENING SCHEDULE / WIND LOADING			
DON VAN GERVE, P.E. SPECIALTY STRUCTURAL ENGINEER			
ALTERNATE DESIGN SOLUTIONS PHONE: 215.355.6884 WWW.ALTERNATEDESIGNSOLUTIONS.COM			
ENGINEERING SERVICES PROVIDED FOR: PREMIER PORTABLE BUILDINGS 317 EAST STATE LINE ROAD SOUTH FULTON, TN 38257 WWW.PREMIERBUILDINGS.US			
REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
DATE: 11.13.23		PROJECT NO.: 20205	
DRAWING BY: JH		CHK BY: DWG	
DWG NO.: C-2			
2 of 7			

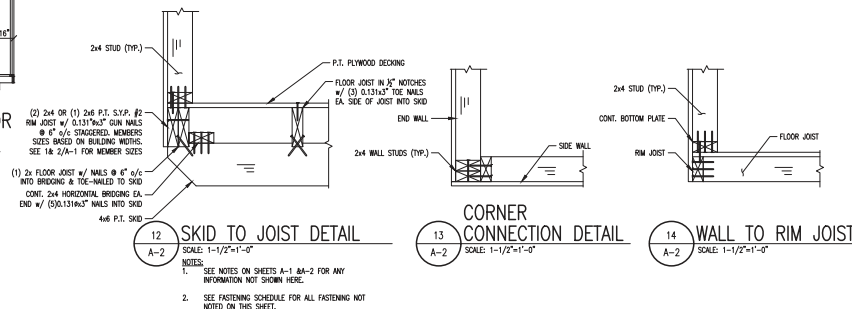


AREA FOR APPROVAL STAMPS			
OCALA FLORIDA SHOP DBA FLORA-BAMA MFG 3082 NE 24TH STREET OCALA FL 34470			
PROJECT: UTILITY SHED			
FLOOR DECK FRAMING PLANS & DETAILS			
DON VAN GERVE, P.E. SPECIALTY STRUCTURAL ENGINEER			
ENGINEERING SERVICES PROVIDED FOR: PREMIER PORTABLE BUILDINGS 317 EAST STATE LINE ROAD SOUTH FULTON, TN 38257 WWW.PREMIERBUILDINGS.US			
REVISION	DESCRIPTION	DATE	BY
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DATE: 11.13.23			
PROJECT NO.: 20205			
DRAWING BY: JH			
CHK BY: DVG			
DWG NO.: A-1			
3 of 7			



SHEARWALL CHART				
BUILDING WIDTH	OPENING WIDTHS IN ENDWALL	MAX. LENGTH OF BUILDING		
		19' 732 T1-11 ¹	3/4" LP SMARTSIDE PANEL ²	ALUMINUM OVER 7/8" OSB ³
8'-0"	3'-0" MAX.	24'-0"	20'-0"	24'-0"
10'-0"	3'-0" MAX.	30'-0"	30'-0"	30'-0"
	6'-0"		16'-0"	
11'-2"	3'-0" MAX.	32'-0"	32'-0"	32'-0"
	6'-0"		22'-0"	
	9'-0"		8'-0"	
12'-0"	3'-0" MAX.	36'-0"	36'-0"	36'-0"
	6'-0"		24'-0"	
	9'-0"		12'-0"	
14'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0"		34'-0"	
	9'-0"		20'-0"	
16'-0"	6'-0" MAX.	40'-0"	40'-0"	40'-0"
	9'-0"		30'-0"	

1. 7/8" T1-11 SHALL BE FASTENED USING B4 COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
2. 3/4" LP SMARTSIDE PANEL SHALL BE FASTENED USING B4 COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
3. LIMITATIONS ON THE TOTAL OPENING DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO NOTH RATION OF 3.5:1 AND SHALL NOT EXCEED (80) OF TOTAL LENGTH OF BUILDING. NAILING IN SIDEWALL USE B4 NAILS COMMON OR DEFORMED AT 6" EVERYWHERE WHEN TOTAL OPENING WIDTHS IN SIDE WALL ARE LESS THAN (80) OF TOTAL LENGTH OF BUILDING.
4. 29ga. STEEL SIDING OVER 7/8" OSB FASTENED USING B4 COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.



AREA FOR APPROVAL STAMPS



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OCALA FL 34470

PROJECT:

UTILITY SHED

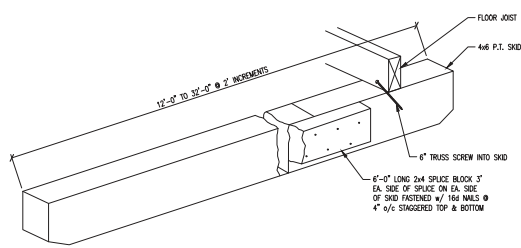
SECTIONS & DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

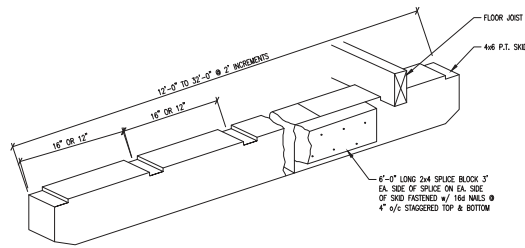


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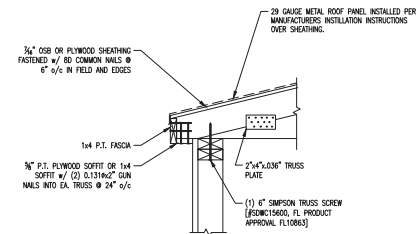
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DATE: 11.13.23			
PROJECT NO.: 20205			
DRAWING BY: JH			
CHK BY: DWG			
DWG NO.: A-2			
4 of 7			



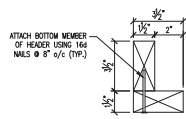
1
A-3
OPTIONAL BLDG. SKID
ISOMETRIC DETAIL
SCALE: N.T.S.



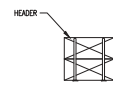
2
A-3
BLDG. SKID
ISOMETRIC DETAIL
SCALE: N.T.S.



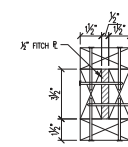
3
A-3
TOP VIEW
CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



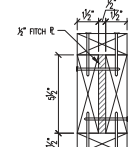
5
A-3
WINDOW
HEADER DETAIL
SCALE: 3"=1'-0"



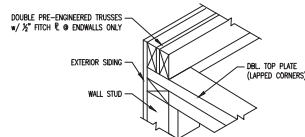
6
A-3
DOOR
HEADER DETAIL
SCALE: 3"=1'-0"



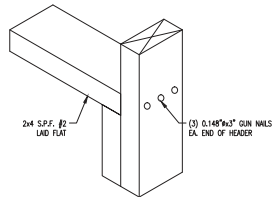
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A-3
DOOR
HEADER DETAIL
SCALE: 3"=1'-0"



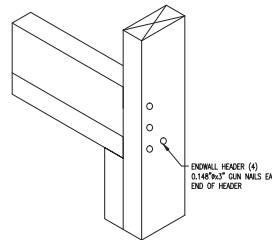
8
A-3
DOOR
HEADER DETAIL
SCALE: 3"=1'-0"



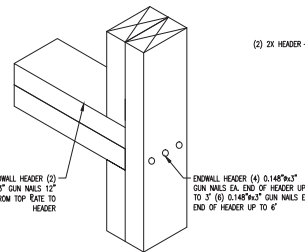
4
A-3
DOUBLE
TRUSS DETAIL
SCALE: 1-1/2"=1'-0"



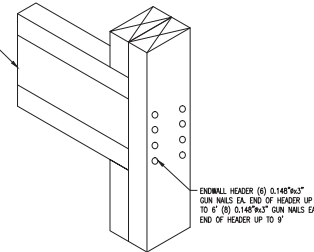
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A-3
WINDOW
SILL DETAIL
SCALE: N.T.S.



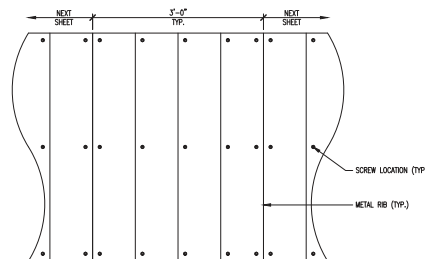
10
A-3
WINDOW HEADER
WITHOUT STRAP DETAIL
SCALE: N.T.S.



11
A-3
ENDWALL
HEADER DETAIL
SCALE: N.T.S.



12
A-3
HEADER DETAIL
SCALE: N.T.S.



13
A-3
METAL ROOFING SCREW PATTERN
SCALE: 1"=1'-0"

AREA FOR APPROVAL STAMPS



OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
UTILITY SHED

TYPICAL DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER
978-943-6869



ENGINEERING SERVICES PROVIDED FOR:
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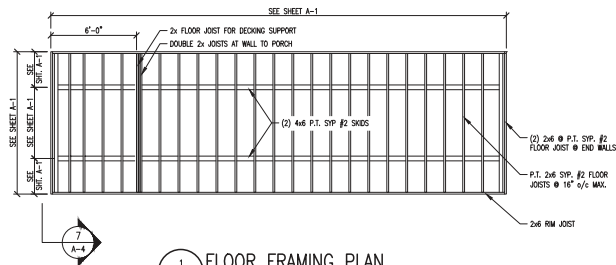
REVISION	DESCRIPTION	DATE	BY
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DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DWG
DWG NO.:

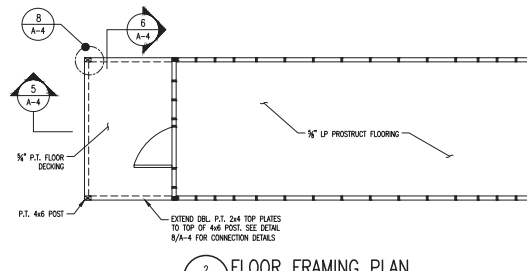
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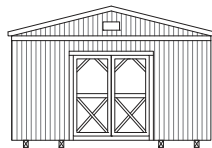
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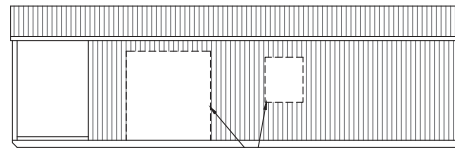
1 FLOOR FRAMING PLAN
A-4 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)



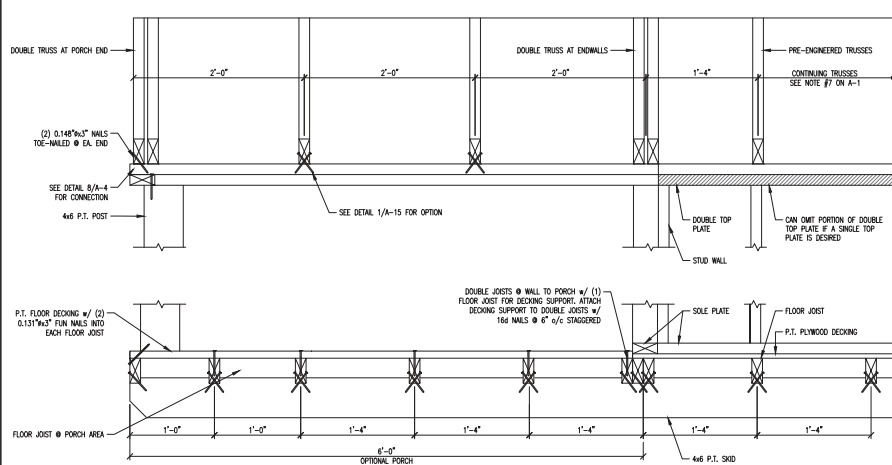
2 FLOOR FRAMING PLAN
A-4 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)



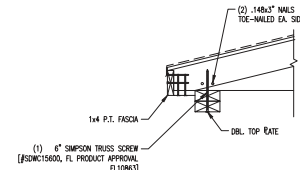
3 ENDWALL ELEVATION
A-4 SCALE: 1/4"=1'-0"



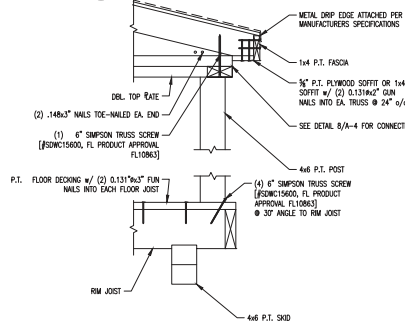
4 SIDEWALL ELEVATION
A-4 SCALE: 1/4"=1'-0"



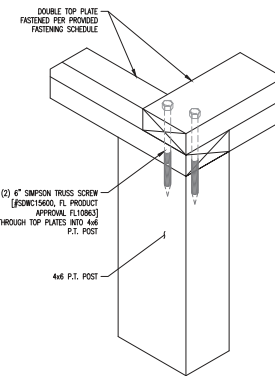
5 OPTIONAL PORCH SECTION DETAIL
A-4 SCALE: 1-1/2"=1'-0"



6 PORCH TOP PLATE DETAIL
A-4 SCALE: 1-1/2"=1'-0"



7 POST TO RIM JOIST DETAIL
A-4 SCALE: 1-1/2"=1'-0"



8 OPTIONAL PORCH POST TO TOP PLATE DETAIL
A-4 SCALE: N.T.S.

AREA FOR APPROVAL STAMPS



OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
UTILITY SHED

OPTIONAL PORCH PLANS, SECTIONS & DETAILS

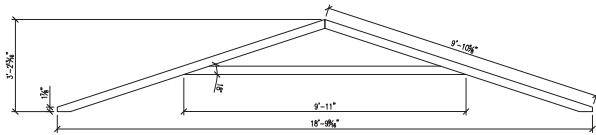
DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER



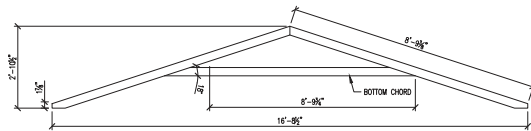
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CHK BY:	DVG		
DWG NO.:	A-4		

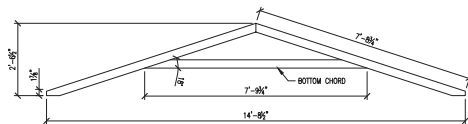




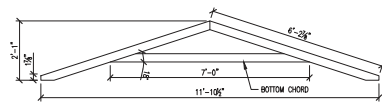
18' UTILITY TRUSS



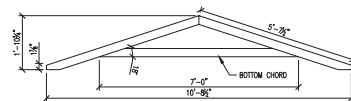
16' UTILITY TRUSS



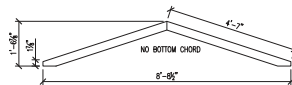
14' UTILITY TRUSS



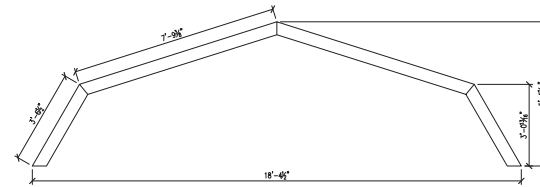
12' UTILITY TRUSS



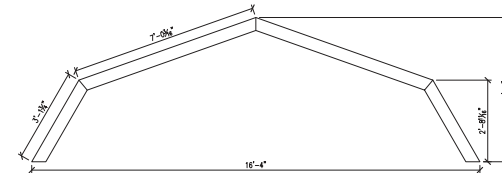
10' UTILITY TRUSS



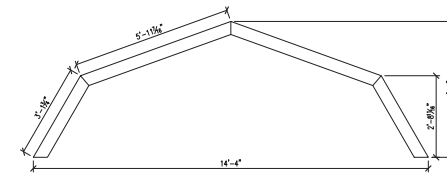
8' UTILITY TRUSS



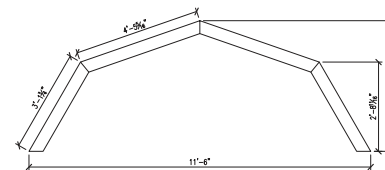
18' LOFTED TRUSS



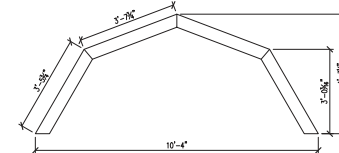
16' LOFTED TRUSS



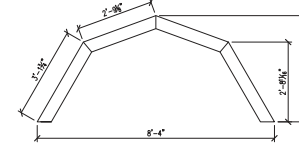
14' LOFTED TRUSS



12' LOFTED TRUSS



10' LOFTED TRUSS



8' LOFTED TRUSS

TRUSS DESIGN: LRFD max Wind ASCE 7-16
figure 26.5-1 61.7 psf uplift (180 mph wind);

Utility: Lmax=5.25 ft. 2x4@24"; w=123.4 plf
 $M=wL^2/8 \times 12 = 5102 \text{ in-lb}$; $S=3.06 \text{ in}^3$; $f_b=1667 \text{ psi}$
 $F_b(\text{LRFD})=3000 \text{ psi}$ - this value to be met by lumber.

Lofted: Lmax=7.76ft; 18' truss @ 16" o/c; w=82plf;
 $M=7412 \text{ in-k}$; $f_b=2422 \text{ psi} < 3000 \text{ psi LRFD}$.

Wall Calcs: 5/8" LP nailed 6 edges 10 interior, 2x4x7ft @ 16" o/c;
Pressure=.85(.57 exp B)(.00256)(180^2)=40psf.

add 18% interior gust factor = 48 psf (LRFD).
 $i=18.74 \text{ in}^4 \text{ per } 16"$; $S=6.03 \text{ in}^3$.

convert to ASD with 0.6 factor:
 $M=(48)(1.33)(.6)(7^2)/8(12 \text{ in/ft})=2815 \text{ in-lbs}$;
 $f_b=467 \text{ psi} < 1000 \text{ psi OK}$

AREA FOR APPROVAL STAMPS



OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT: UTILITY SHED

TRUSS DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER



ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DWG
DWG NO.:

A-5

