BCIS Home | Log Out | User Registration | Hot Topics | Submit Surcharge | Stats & Facts | Publications | Contact Us | BCIS Site Map | Links | Search

Business & Professional Regulation





DBPR HOME ABOUT DBPR DBPR DIVISIONS CONTACT DB





Manufactured (Modular) Buildings

USER: Todd Gunter, Leonard Aluminum Utility Buildings, LLC - Purvis, Manufacturer Additional Facilities

Manufactured (Modular) Buildings Menu > Confirmation

OFFICE OF THE SECRETARY

Thank you Todd Gunter, your application fee has been accepted. Please print this receipt for your records.

You have been successfully registered as

Login Leonard2
Name Todd Gunter
Primary Phone (336) 789-5018

Email bmatthews@leonardusa.com

FBC Organization Number MAF14345

Business/Firm Name Leonard Aluminum Utility Buildings, LLC - Purvis

Business Location Address 630 W. Independence Blvd

Suite 3

City Mount Airy
State North Carolina

Zip Code 27030 Administrator Name Todd Gunter

Administrator Phone (336) 789-5018

Payment Number	138223
Sub Total	\$250.00
Convenience Fee	\$2.00
Payment Total	\$252.00

Finish

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click here.

Manufactured (Modular) Buildings Accepts:







January 27, 2023

Mr. Thomas Campbell Florida Department of Business and Professional Regulation 2601 Blair Stone Road, Building C Tallahassee, Florida 32399-6563

RE: Plan Approval

Leonard Aluminum Utility Buildings, LLC (Purvis, Mississippi Plant)

Garden-P-20

Dear Mr. Campbell,

Pursuant to the requirements of the Department of Business & Professional Regulation, the above referenced documents have been reviewed for compliance with:

2020 Florida Building Code, 7th Edition, with 2021 supplements 2017 National Electrical Code (NFPA-70) Florida Product Approval Rule 61G20-3.006 (FAC)

All mandatory comments have been satisfied and plans are approved for construction by a currently approved modular building manufacturer.

These documents were reviewed for only what is to be constructed in the factory. Any work performed at the site, such as the foundation, is under the authority and jurisdiction of the local Building Official.

Third Party Agency approval in no way alleviates the builder/manufacturer from complying with all the applicable codes, which may or may not be identified in this review. Approval also does not preclude the local building official from requiring work be performed that was not previously reviewed, approved, and constructed under the State of Florida's Manufactured (Modular) Building Program to make the building, code compliant, for the intended use.

A signed and sealed set of plans are maintained on file with Top Line Engineering, LLC.

If you require my assistance in any way, please do not hesitate to contact me.

Thank you.

Respectfully,

William E. Neary,

Plans Examiner

SMI-79, SMP-51, ICC 5185040

Business Partner

Top Line Engineering, LLC

BILL.TLE@yahoo.com

*** Please note: Any questions regarding local permitting should be directed to the Manufacturer. The Manufacturer's contact information can be found in the title block of the plans.

LEONARD BUILDINGS

132 CENTRAL INDUSTRIAL ROW, PURVIS, MS 39475

STANDARD GARDEN SHED

STATE OF FLORIDA

Design Criteria					
BUILDING CODE	ASCE 7-16, FBC 2020 (7th ed.) W/2021 SUPP				
ELECTRICAL CODE	2014 NEC, NFPA70				
BUILDING TYPE	RESIDENTIAL LAWN STORAGE SHED				
MANUFACTURER	LEONARD BUILDINGS				
AGENCY	TOP LINE ENGINEERING, LLC				
AGENCY PLAN NUMBER	GARDEN				
CONSTRUCTION TYPE	V-B				
FIRE PROTECTION	В				
FIRE SUPPRESSION SYSTEM	NO				
OCCUPANCY	U - UTILITY				
NUMBER OF OCCUPANTS	0				
ALLOWABLE # OF STORIES	1				
WIND INFORMATION	160 MPH ULTIMATE, V _{ASD} = 124 MPH, EXPOSURE C, CATEGORY I; ENCLOSED; +/- 0.18 INTERNAL PRESSURE COEFFICIENT; 15' HEIGHT				
FLOOR LIVE LOAD	40.0 PSF				
FLOOR DEAD LOAD	4.0 PSF				
ROOF LIVE LOAD	20.0 PSF				
ROOF DEAD LOAD	7.0 PSF				
WALL DEAD LOAD	3.0 PSF				
UNINHABITED LOFT LIVE LOAD	0.0 PSF				
GROUND SNOW LOAD	20.0 PSF				
FIRE RATING OF EXTERIOR WALLS	0				
"R" RATING OF FLOOR, WALL, AND ROOF	R-0, R-0, R-0				
MODULES PER BUILDING	1				
SQUARE FOOTAGE	LESS THAN 719 SQ. FT.				
EXEMPT FROM ENERGY CONSERVATION CODE?	YES				
APPROVED FOR HURRICANE PROTECTION USAGE?	NO				
DESIGNED FOR HURRICANE PUBLIC SHELTER?	NO				

SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

- 1. THE COMPLETE FOUNDATION SUPPORTING AND TIE-DOWN SYSTEM.
- 2. RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING IF NECESSARY.
- 3. GUTTERS AND DOWN SPOUTS ON ALL BUILDINGS WITH EAVES OF LESS THAN 6 INCHES HORIZONTAL PROJECTION EXCEPT FOR GABLE END RAKES.

OCCUPANCY NOTE:

THIS BUILDING IS NOT DESIGNED FOR HUMAN HABITATION AND DOES NOT HAVE RUNNING WATER OR SANITATION SERVICES. THIS BUILDING IS DESIGNED AS A UTILITY SHED TO STORE LAWN EQUIPMENT SUCH AS WHEEL BARROWS. GARDENING SUPPLIES, FLOWER POTS, AND CARDBOARD BOXES WITH VARIOUS SMALL ITEMS.

NOT APPROVED FOR HVHZ

Sheet Index						
SHEET TITLE						
COVER SHEET						
GENERAL NOTES						
WIND LOAD TABLES						
FASTENING SCHEDULE						
FRAMING PLANS						
ELEVATION PANEL SIDING						
ELEVATION LAP SIDING						
7'-11 1/2" SHED - FRAMING ELEVATION						
9'-11 1/2" SHED - FRAMING ELEVATION						
SIDE WALL ELEVATION						
CROSS SECTIONS						
CROSS SECTIONS						
DETAILS						
DETAILS						
DETAILS						

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468 411111111111 01/26/23

01/26/23

SHEET:

1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

COVER SHEET

DATE: 12/08/20 DRAWN BY: SCALE: AS NOTED CHECKED BY: KMB

SHEET 1 OF 15

2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL

GENERAL NOTES:

- THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (7th Ed.).
- 2. ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.
- 3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 4. THE FOUNDATION PLAN IS A SEPARATE SET OF PLANS FOR APPROVAL BY LOCAL MUNICIPALITIES.
- 5. EXTERIOR DIMENSIONS CAN VARY BETWEEN LIMITS SHOWN AT 2' O.C. BUT MEMBER SPACING SHALL NOT EXCEED LIMITS AS INDICATED.
- 6. ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC4B (GROUND CONTACT, HEAVY DUTY)-SKIDS.
- 7. ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC3B (EXTERIOR ABOVE GROUND, UNCOATED OR POOR WATER RUNOFF)-FLOOR JOISTS, PLYWOOD FLOOR DECKING, AND EXTERIOR RATED WOOD STRUCTURAL PANEL SIDING.
- 8. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED (G185) OR STAINLESS STEEL.
- 9. ALL WINDOWS WITHIN 24" OF DOORS, AND ALL GLASS IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
- 10. FOR ROOFS WITH ASPHALT SHINGLES AND A SLOPE BETWEEN 2 TO 12 AND 4 TO 12 SHALL HAVE A DOUBLE UNDERLAYMENT APPLICATION AS REQUIRED IN ACCORDANCE WITH SECTION 1507.2.2 OF THE 2018 IBC OR PER SHINGLE MANUFACTURER INSTRUCTIONS.
- 11. UNDERLAYMENT SHALL CONFORM WITH SECTION 1507.2.3 OF THE 2018 IBC OR PER SHINGLE MANUFACTURER INSTRUCTIONS.
- 12. ASPHALT SHINGLES SHALL CONFORM WITH SECTION 1507.2.5 OF THE 2018 IBC ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH 1507.2.7 OF THE 2018 IBC.
- 13. FASTENERS FOR ASPHALT SHINGLES SHALL CONFORM TO SECTION 1507.2.6 OF THE 2018 IBC.
- TIE-DOWNS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES.
- 15. THESE PLANS HAVE NOT BEEN DESIGNED FOR HVHZ REQUIREMENTS AS SET FORTH IN THE 2018 IBC OR FOR USE AS A COMMERCIAL BUILDING.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND PLACEMENT OF LAWN STORAGE UNIT TO ENSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS.
- 18. NO FIELD REVISIONS TO ANY STRUCTURAL COMPONENTS OR DEVIATIONS FROM THESE DRAWINGS SHALL BE MADE.
- 19. THE OWNER AND THE CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERRORS OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
- 20. SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIFICALLY REFERENCED.
- 21. REFER TO SUPPLIED FASTENING SCHEDULE FOR FASTENING BASED ON CONNECTION AND LOCATION OF MEMBERS AS PER 2018 IBC TABLE 2304.10.1 UNLESS NOTED OTHERWISE.
- 22. BUILDINGS HAVE BEEN DESIGNED FOR LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING, LP SMARTSIDE PRECISION LAP SIDING SHALL BE USED WITH X-STRAPS OR STRUCTURAL SHEATHING AS DETAILED IN THIS PLAN SET
- 23. FASTENERS IN LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING MUST NOT BE INSTALLED IN PANEL SIDING GROOVES IN THE FIELD OF THE PANEL SIDING OR WHEN THE PANEL SIDING GROOVES OCCUR AT CUT EDGES OF THE PANEL SIDING.
- 24. REFER TO THE ICC-ES EVALUATION REPORT ESR-1301 / 3090 FOR ADDITIONAL DATA AND SPECIFICATIONS OF LP SMARTSIDE STRAND SUBSTRATE PANEL / LAP SIDING.
- 25. MAX OPENINGS WIDTHS MUST COMPLY WITH DESIGN RATIOS AS PER ANSI/AF&PA SDPWS-2015. BUILDINGS HAVE BEEN DESIGNED TO HAVE ONLY OPENINGS WITH MAX WIDTHS EQUAL TO THOSE IN THE ENDWALL SHEAR WALL CHART.
- 26. PER SECTION 1609.1.2 OF THE 2018 IBC, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE-DEBRIS-IMPACT STANDARDS OF THE 2018 IBC.
- 27. BUILDINGS HAVE BEEN DESIGNED TO HAVE ANCHORS DIRECTLY ATTACHED TO ALL FOUR CORNERS OF THE BUILDING TO RESIST TENSION FORCES FROM LATERAL WIND LOADS.
 THIS DESIGN CONSIDERATION MUST BE MADE BY INSTALLER WHEN ATTACHING ANCHORING SYSTEM TO BUILDING.
- 28. UNLESS NOTED OTHERWISE, ATTACH ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- 29. 2X4 SP #2 PRESSURE TREATED LUMBER SHALL BE SUBSTITUTED FOR 2X4 SPF #2 LUMBER IN WALLS FOR USE IN FLOOD PLAINS.
- 30. PER APA PRODUCT REPORT PR-N124, LP SMARTSIDE STRAND SUBSTRATE SERIES TREATED-ENGINEERED-WOOD PANEL AND LAP SIDING IS PERMITTED ON WALLS FOR USE IN FLOOD PLAINS.
- 31. 19/32" LP PROSTRUCT FLOORING WITH SMARTFINISH IS PERMITTED IN LIEU OF 5/8" APA RATED STRUCTURAL SHEATHING ON FLOOR. INSTALL PER MANUFACTURER INSTRUCTIONS.

FL PE Name: Kent M. Bice
FL PE #: 50421
FL COA #: 30468

No 50421

STATE OF

01/26/23

01/26/23

RD

1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

GENERAL NOTES

DATE: 12/08/20 DRAWN BY:

SCALE: AS NOTED CHECKED BY: KMB

SHEET:

SHEET 2 OF 15

2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL

DESIGN WIND LOADS - WINDOWS, DOORS, COMPONENTS AND CLADDING

	ROOF							
ZONE	AREA (FT²)	I -	PRESSURE (SF)					
	(' ' '	POSITIVE	NEGATIVE					
1	10	30.8	-56.5					
1	20	27.4	-47.9					
1	50	22.9	-36.5					
1	100	19.4	-28.0					
2	10	30.8	-56.5					
2	20	27.4	-47.9					
2	50	22.9	-36.5					
2	100	19.4	-28					
3	10	30.8	-96.5					
3	20	30.8	-76.3					
3	50	19.4	-47.5					
3	100	19.4	-35.9					

WALLS								
ZONE	AREA (FT²)	DESIGN PRESSURE (PSF)						
	(1 1)	POSITIVE	NEGATIVE					
4	10	33.7	-36.5					
4	20	32.2	-35.0					
4	50	29.5	-32.3					
4	100	27.1	-29.9					
5	10	33.7	-45.1					
5	20	32.2	-42.1					
5	50	29.5	-39.2					
5	100	27.1	-36.3					

ASCE 7-16 WIND BUILDING DATA

WIND VELOCITY V_{ULT} 160 MPH INTERNAL PRESSURE COEFFICIENT ± 0.18 WIND VELOCITY VASD (ENCLOSED BUILDING ASCE 7-16) 124

BUILDING CATEGORY HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT 1.21 ROOF DEAD LOAD RESISTING UPLIFT (PSF) 7.0

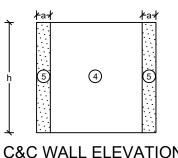
ROOF ANGLE, ° (DEGREES) 15 OR 30 DEGREES

MEAN ROOF HEIGHT 15

WIND EXPOSURE CATEGORY С

(3) ·(2) ·(3)(3) ·(2) · (3 INTERIOR ZONE 1 22 1 END ZONE CORNER **(3)** (2) **(3)**(3) (2) **(**3

WIND LOAD COMPONENT AND **CLADDING ROOF PRESSURE DIAGRAM**



C&C WALL ELEVATION DIAGRAM

NOTES:

- FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
- 2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
- 3. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
- REFER TO PRESSURE ZONE DIAGRAMS PROVIDED FOR CORRESPONDING ZONES.
- ROOF COVERINGS, FINISHES, ETC SHALL BE DESIGNED FOR THE FULL NEGATIVE DESIGN PRESSURE.

DESIGN WIND LOADS - MWFRS

		WA	NLL		ROOF			
	SURFACE 1	SURFACE 1E	SURFACE 4	SURFACE 4E	SURFACE 2	SURFACE 2E	SURFACE 3	SURFACE 3E
LOAD CASE A	35.0	43.6	-26.5	-35.5	-41.2	-59.2	-29.4	-38.8

	SIDE WALL				ROOF				GABLE	WALL		
	WINDWARD LEEWARD		VARD	WINDWARD LEEW		/ARD WINDWARD		WARD	LEEWARD			
	SURFACE 1	SURFACE 1E	SURFACE 4	SURFACE 4E	SURFACE 2	SURFACE 2E	SURFACE 3	SURFACE 3E	SURFACE 5	SURFACE 5E	SURFACE 6	SURFACE 6E
LOAD CASE B	-29.8	-31.3	-29.8	-31.3	-41.2	-59.2	-26.0	-33.6	27.5	37.4	-22.3	-28.9

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468 01/26/23

01/26/23

1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

WIND LOAD TABLES

DATE: 12/08/20 DRAWN BY: SCALE: AS NOTED CHECKED BY: KMB SHEET 3 OF 15

SHEET:

2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL

PLANS WERE DESIGNED IN ACCORDANCE WITH THE ASCE 7-16, FBC 2020 (7TH ED.) W/2021 SUPP

FASTENING SCHEDULE								
CONNECTION	FASTENING ^{a, k}	LOCATION						
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON (2½" X 0.131") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	TOENAIL						
2. BRIDGING TO JOIST	2 - 8d COMMON (2½" X 0.131") 2 - 3" X 0.131" NAILS 2 - 3", 14 GAGE STAPLES	TOENAIL EACH END						
3. SOLE PLATE TO JOIST OR BLOCKING	16d (3½" X 0.135") AT 12" O.C. 3" X 0.131" NAILS AT 12" O.C. 3", 14 GAGE STAPLES AT 12" O.C.	FACE NAIL						
4. SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d (3½" X 0.135") AT 16" O.C. 4 - 3" X 0.131" NAILS AT 16" O.C. 4 - 3", 14 GAGE STAPLES AT 16" O.C.	FACE NAIL						
5. TOP PLATE TO STUD	2 - 16d (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	END NAIL						
6. STUD TO SOLE PLATE	4 - 8d COMMON (2½" X 0.131") 4 - 3" X 0.131" NAILS 4 - 3", 14 GAGE STAPLES	TOENAIL						
	2 - 16d COMMON (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	END NAIL						
7. DOUBLE STUDS	16d (3½" X 0.162") AT 24" O.C. 3" X 0.131" NAILS AT 16" O.C. 3", 14 GAGE STAPLES AT 16" O.C.	FACE NAIL						
8. TOP PLATE TO TOP PLATE	16d (3½" X 0.162") AT 16" O.C. 3" X 0.131" NAILS AT 12" O.C. 3", 14 GAGE STAPLES AT 12" O.C.	FACE NAIL						
	8 - 16d COMMON (3½" X 0.162") 12 - 3" X 0.131" NAILS 12 - 3", 14 GAGE STAPLES	FACE NAIL AT LAP SPLICE						
9. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON (2½" X 0.131") 3 - 3 X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	TOENAIL						
10. RIM JOIST TO TOP PLATE	8d (2½" X 0.131") AT 6" O.C. 3" X 0.131" NAILS AT 6" O.C. 3", 14 GAGE STAPLES AT 6" O.C.	TOENAIL						
11. TOP PLATES, LAPS AND INTERSECTIONS	2 - 16d COMMON (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	FACE NAIL						
12. CONTINUOUS HEADER (2) PIECES	16d COMMON (3½" X 0.162")	16" O.C. EACH EDGE, FACE NAIL						
13. CEILING JOISTS TO PLATE	3 - 8d COMMON (2½" X 0.131") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	TOENAIL						
14. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2½" X 0.131")	TOENAIL						
15. RAFTER TO PLATE	3 - 16d (3½" X 0.162") 4 - 3" X 0.131" NAILS 4 - 3", 14 GAGE STAPLES	TOENAIL						
16. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON (2½" X 0.131") 2 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	FACE NAIL						
17. BUILT-UP CORNER STUDS	16d (3½" X 0.162") 3" X 0.131" NAILS 3" 14 GAGE STAPLES	12" O.C. FACE NAIL						

2023-01-27	TOP LINE	FNGINFFRING	, LLC APPROVAL
			, LLC

FASTENING SCHEDULE								
CONNECTION	ı	FASTENING ^{a, k}	LOCATION					
18. BUILT-UP GIRDER AND BEAMS	3" X 0.131" NA 3" 14 GAGE S	TAPLE AT 24" O.C. AND ON (4" X 0.192") OR NAIL OR	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE					
19. COLLAR TIE TO RAFTER	3 - 10d COMM 4 - 3" X 0.131" 4 - 3" 14 GAGE		FACE NAIL					
20. ROOF RAFTER TO 2-BY RIDGE BEAM	3 - 10d COMM 4 - 3" X 0.131" 4 - 3" 14 GAGE		TOENAIL					
21. JOIST TO BAND JOIST	3 - 16d COMM 4 - 3" X 0.131" 4 - 3" 14 GAGE		END NAIL					
22. WOOD STRUCTURAL PANELS AND PARTICLEBOARD ^b , SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR, COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING	½" AND LESS 19/32" TO ¾" 7/8" TO 1" 11/8" TO 11/4"	6d°, J 2¾" X 0.113" NAIL ¹ 1¾" X 16 GAGE ^m STAPLE 8d ^d OR 6d ^e 2¾" X 0.113" NAIL ⁿ 2" 16 GAGE ⁿ STAPLE 8d° 10d ^d OR 8d ^e	6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATE, 4" O.C. AT COMPONENT AND CLADDING EDGE STRIP # ZONE 3 [REFER TO FIGURE ON SHEET S-3]					
23. PANEL SIDING TO FRAMING	½" OR LESS %"	6d ^f 8d ^f	6" / 12" O.C. AT EDGES / INTERMEDIATE					
24. FIBERBOARD SHEATHING	25/32"	NO. II GAGE ROOFING NAIL ^h 6d COMMON NAIL (2" x 0.113") NO. 16 GAGE STAPLE ⁱ NO. II GAGE ROOFING NAIL ^h 8D COMMON NAIL (2 ½" x 0.131") NO 16 GAGE STAPLE ⁱ	3" / 6" O.C. AT EDGES / INTERMEDIATE FOR STRUCTURAL APPLICATIONS 6" / 12" O.C. AT EDGES / INTERMEDIATE FOR NON-STRUCTURAL APPLICATIONS					

NOTES:

- a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
- b. NAILS SPACED AT 6' O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
- c. COMMON OR DEFORMED SHANK (6d 2" x 0.113"; 8d 2 1/2" x 0.131"; 10d 3" x 0.148").
- d. COMMON (6d 2" x 0.113"; 8d 2 1/2" x 0.131"; 10d x 0.148").
- e. DEFORMED SHANK (6d 2" x 0.113"; 8d 2 1/2" x 0.131"; 10d 3" x 0.148").
- f. CORROSION-RESISTANT SIDING (6d 1 7/8" x 0.106"; 8d 2 3/8' x 0.128") OR CASING (6d 2" x 0.099"; 8d 2 1/2" x 0.113") NAIL.
- g. FASTENERS SPACED 3" O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" O.C. ON THE EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
- h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
- CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN OR 1" CROWN AND 1 1/4" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
- FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
- k. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16'.
- I. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" O.C. AT EDGES, 8" O.C. AT INTERMEDIATE SUPPORTS.
- m. 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.
- n. FASTENERS SPACED 4" O.C. AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468 M. BION ENT M. BIC

ORIDANA ORIDANA ONALEMINA 01/26/21

01/26/23

1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

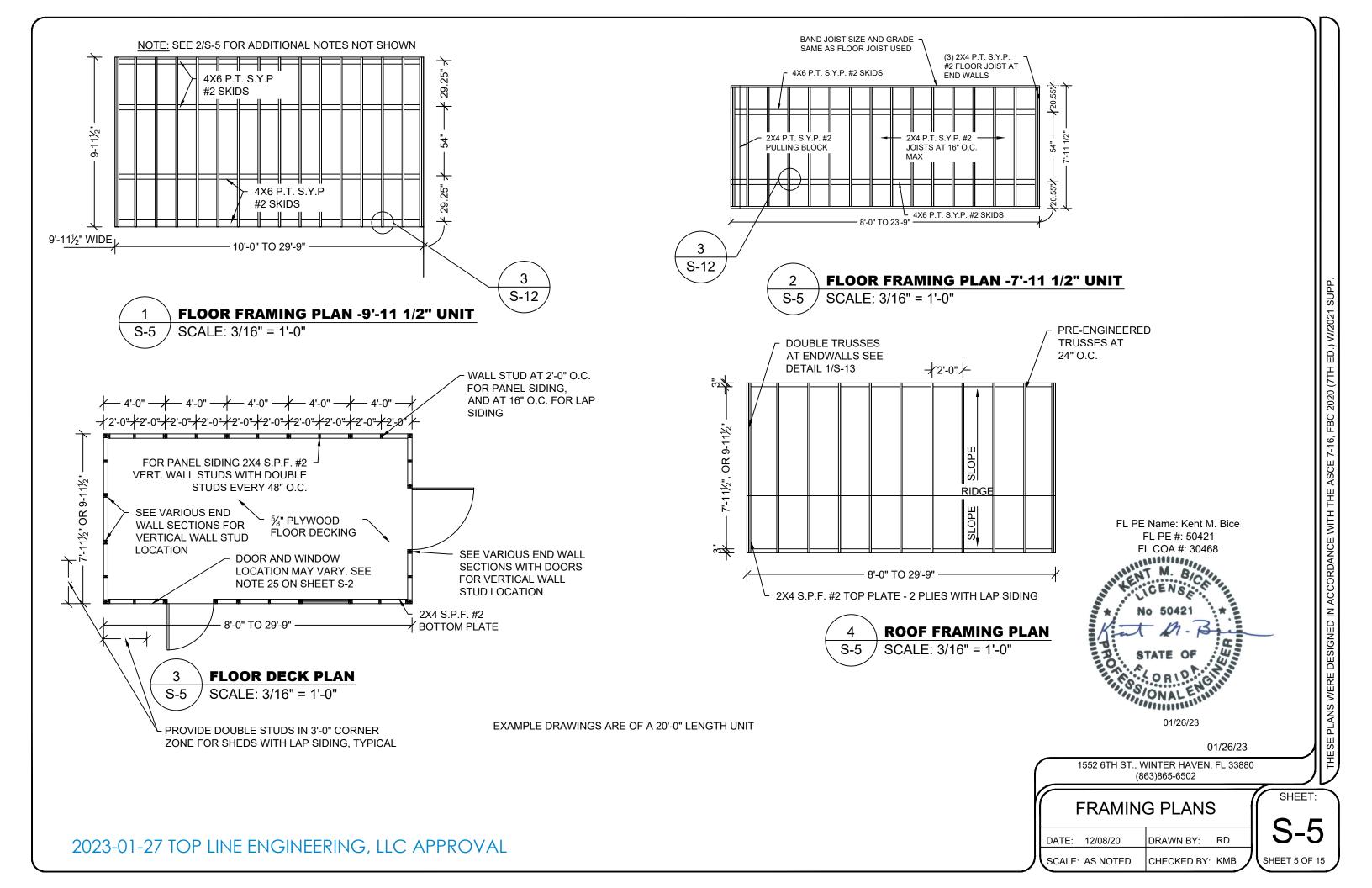
FASTENING SCHEDULE

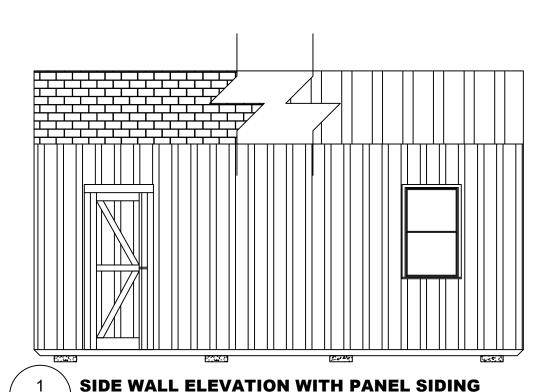
DATE: 12/08/20 DRAWN BY: SCALE: AS NOTED CHECKED BY: KMB

SHEET:

WERE DESIGNED IN ACCORDANCE WITH THE

SHEET 4 OF 15

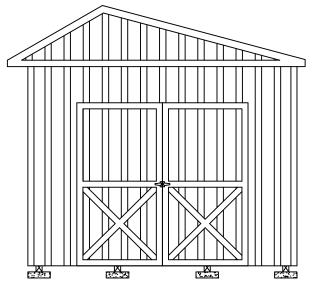




	SHEARWALL									
FLOOR	OPENI	NG WIDTH		MAX BUILDI	NG LENGTH					
WIDTH (FT)	LONG SIDE WALL	SHORT END WALL	19/32" T1-11 ¹	19/32" LP PANEL ²	19/32" LP PANEL ³	19/32" LP PANEL ² + 7/16" RATED SHEATHING ⁴				
7'-11½"	2'-0", 3'-0", 4'-0", 8'-0"	2'-0", 3'-0", 4'-0"	23'-9"	23'-9"	23'-9"	23'-9"				
9'-11½"	- , , - ,	2'-0", 3'-0", 4'-0", 6'-0"	29'-9"	29'-9"	29'-9"	29'-9"				
	6'-0", 7'-0", 8'-0"	7'-0"		24'-0"		20 0				

- 1. 19/32" T1-11 APA RATED SIDING 303-24 O.C. WITH 8D COMMON OR DEFORMED (0.131"X2-1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. IN EDGES IN END WALL AND 6" O.C. EVERYWHERE IN SIDE WALL.
- 2. 19/32" LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING WITH STAGGERED 8D COMMON OR DEFORMED (0.131"X2-1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. IN EDGES IN END WALL AND 6" O.C. EVERYWHERE IN SIDE WALL.
- 3. 19/32" LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING WITH STAGGERED 8D COMMON OR DEFORMED (0.131"X2-1/2") NAILS AT 6" O.C. IN FIELD AND 2" O.C. IN EDGES IN END WALL AND 6" O.C. EVERYWHERE IN SIDE WALL.
- 4. 7/16" APA STRUCTURAL RATED SHEATHING (OSB) WITH STAGGERED 8D COMMON OR DEFORMED (0.131"X2-1/2") NAILS AT 6" O.C. IN FIELD AND 4" O.C. IN EDGES IN END WALL AND 6" O.C. EVERYWHERE IN SIDE WALL.
- 5. WINDOWS AND DOORS MAY BE LOCATED IN EITHER THE SIDE WALL OR ENDWALL. DOORS ARE PERMITTED TO BE IN BOTH ENDWALLS OR ENDWALL AND SIDEWALL IF REQUESTED BY CUSTOMER. LIMITATIONS ON THE TOTAL DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATIO OF 3.5:1 AND SHALL NOT EXCEED (2/3) OF THE TOTAL LENGTH OF BUILDING.
- 6. DOOR AND WINDOW SHALL BE LOCATED SUCH THAT THEY ARE AT LEAST 3'-3" APART.
- EDGE NAILING SHALL BE PROVIDED AT TOP PLATE IN ALL END WALLS.
- 8. PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES OF WALL SHEATHING.

2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL



10'-0" WIDE UNIT WITH 3'-0" DOOR

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

10'-0" WIDE UNIT WITH 7'-0" DOOR

ENDWALL ELEVATION WITH PANEL SIDING

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

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468 WOONALEW

ELEVATIONS AND SHEARWALL

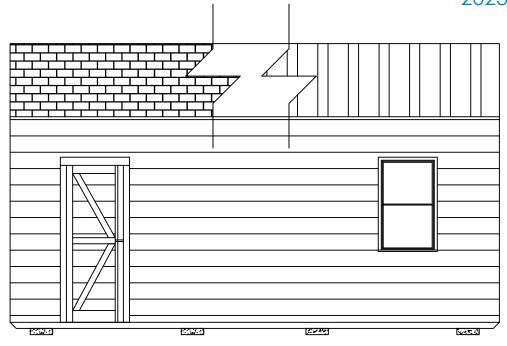
1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

DATE: 12/08/20 DRAWN BY: RD SCALE: AS NOTED

CHECKED BY: KMB SHEET 6 OF 15

SHEET

01/26/23



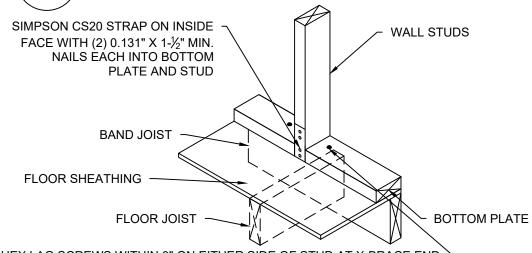
SIDE WALL ELEVATION WITH LAP SIDING SCALE: 1/4" = 1'-0"

WALL TOP PLATE 3'-3" MINIMUM WALL STUD AT 16" O.C. WALL BOTTOM PLATE **BAND JOIST** 4X6 SKID

(1) SIMPSON CS20 (33MIL X 1-1/4", GRADE 40 STEEL, G60 COATING) X-STRAP OR EQUIVALENT ON EACH FACE OF WALL STUD. ATTACH STRAPS TO WALL TOP & BOTTOM PLATES WITH (5) 0.131" x 2-1/4" NAILS STAGGERED. STRAP MAY BE WRAPPED AROUND WALL TOP & BOTTOM PLATES.

ALTERNATE: 7/16" APA RATED SHEATHING ON OUTSIDE FACE OF WALL STUD FASTENED WITH 8d COMMON OR DEFORMED (0.131" x 2-1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. AT EDGES.

PARTIAL SIDE WALL FRAMING ELEVATION WITH LAP SIDING S-6A SCALE: NTS



(2) 1/4" x 4" HEX LAG SCREWS WITHIN 3" ON EITHER SIDE OF STUD AT X-BRACE END LOCATIONS AND CENTERED THRU BAND JOIST, PREDRILL MAX. 1/4" DIA, HOLE THRU BOTTOM PLATE AND 0.15" DIA. HOLE THRU SHEATHING AND BAND JOIST.

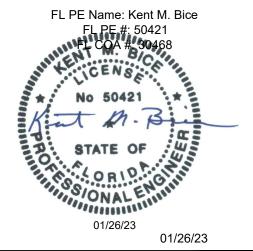
WALL STUD TIEDOWN FOR X-BRACE OPTION SCALE: NTS

SHEARWALL WITH LP SMARTSIDE LAP SIDING¹ MAX BUILDING **OPENING WIDTH LENGTH FLOOR** WIDTH (FT) LONG SIDE SHORT END WALL² WALL^{3,4} 23'-9" 2'-0", 3'-0", 4'-0" 7'-111/5" 2'-0", 3'-0", 4'-0" 6'-0", 8'-0" 2'-0", 3'-0", 4'-0", 2'-0". 3'-0". 4'-0". 6'-0". 9'-111/5" 29'-9" 6'-0", 7'-0", 8'-0" 7'-0"

NOTES:

- MIN. 0.45" THICK LP SMARTSIDE 12" BOLD PROFILES DOUBLE 5" FIBER SUBSTRATE LAP SIDING PER ICC-ES ESR 3090. TABLES 2A. 2B AND 2C
- ON LONG SIDE WALL, ATTACH LAP SIDING TO EACH WALL STUD WITH MINIMUM 8d SINKER NAILS (0.113" X 2-3/4") AT 3/8" FROM EACH END, AND 3 NAILS PER STUD -- 3" FROM TOP EDGE. IN THE MIDDLE AND 1-1/2" FROM BOTTOM

- WINDOWS AND DOORS MAY BE LOCATED IN EITHER THE SIDE WALL OR ENDWALL. DOORS ARE PERMITTED TO BE IN BOTH ENDWALLS OR ENDWALL AND SIDEWALL IF REQUESTED BY CUSTOMER. LIMITATIONS ON THE TOTAL DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATIO OF 3.5:1 AND SHALL NOT EXCEED (2/3) OF THE TOTAL LENGTH OF BUILDING.
- DOOR AND WINDOW SHALL BE LOCATED SUCH THAT THEY ARE AT LEAST 3'-3"
- EDGE NAILING SHALL BE PROVIDED AT TOP PLATE IN ALL END WALLS.
- PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES OF WALL SHEATHING.



1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

ELEVATIONS AND SHEARWALL

RD DATE: 12/08/20 DRAWN BY: SCALE: AS NOTED CHECKED BY: KMB

SHEET: SHEET 7 OF 15

2020 (7TH ED.) W/2021

S-6A

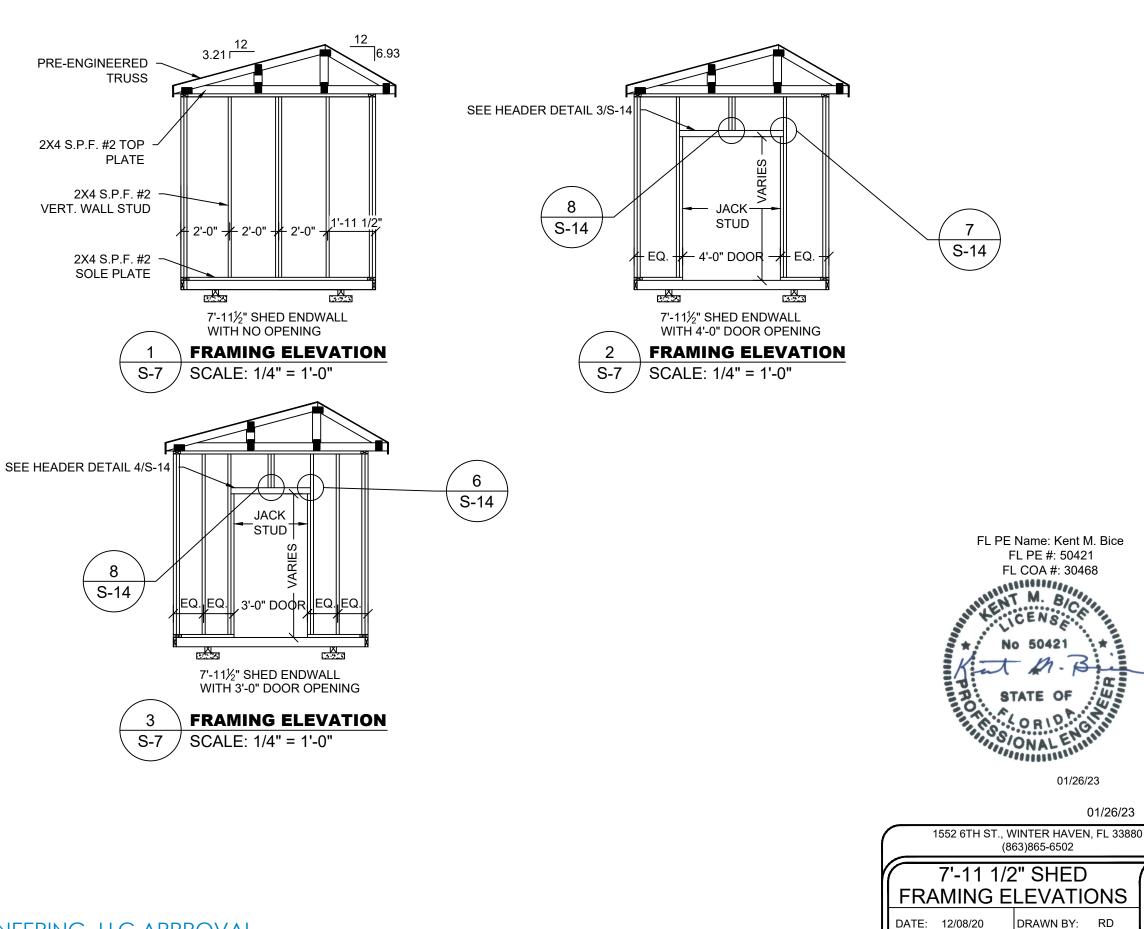
10'-0" WIDE UNIT WITH 3'-0" DOOR

ENDWALL ELEVATION WITH LAP SIDING

S-6A SCALE: 1/4" = 1'-0"

W

EDGE. PROVIDE X-STRAP OR SHEATHING ON WALL PER 2/S-6A. ON SHORT END WALL, ATTACH LAP SIDING TO SHEATHING WITH MINIMUM 8d SINKER NAILS (0.113" X 2-3/4") AT 3/4" FROM EACH END, AND 3 NAILS PER 16" SPACING -- 3" FROM TOP EDGE, IN THE MIDDLE AND $1-\frac{1}{2}$ " FROM BOTTOM EDGE. 4. ON SHORT END WALL WITHOUT AN OPENING, PROVIDE MIN. 7/16" APA RATED SHEATHING ON EXTERIOR FACE FASTENED TO STUDS WITH 8d COMMON OR DEFORMED (0.131" x 2-1/2") NAILS AT 6" O.C. IN FIELD AND EDGES. ON SHORT END WALL WITH AN OPENING, PROVIDE 19/32" APA RATED SHEATHING ON EXTERIOR FACE FASTENED TO STUDS WITH 8d COMMON OR DEFORMED (0.131" x 2-1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. AT EDGES.



2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL

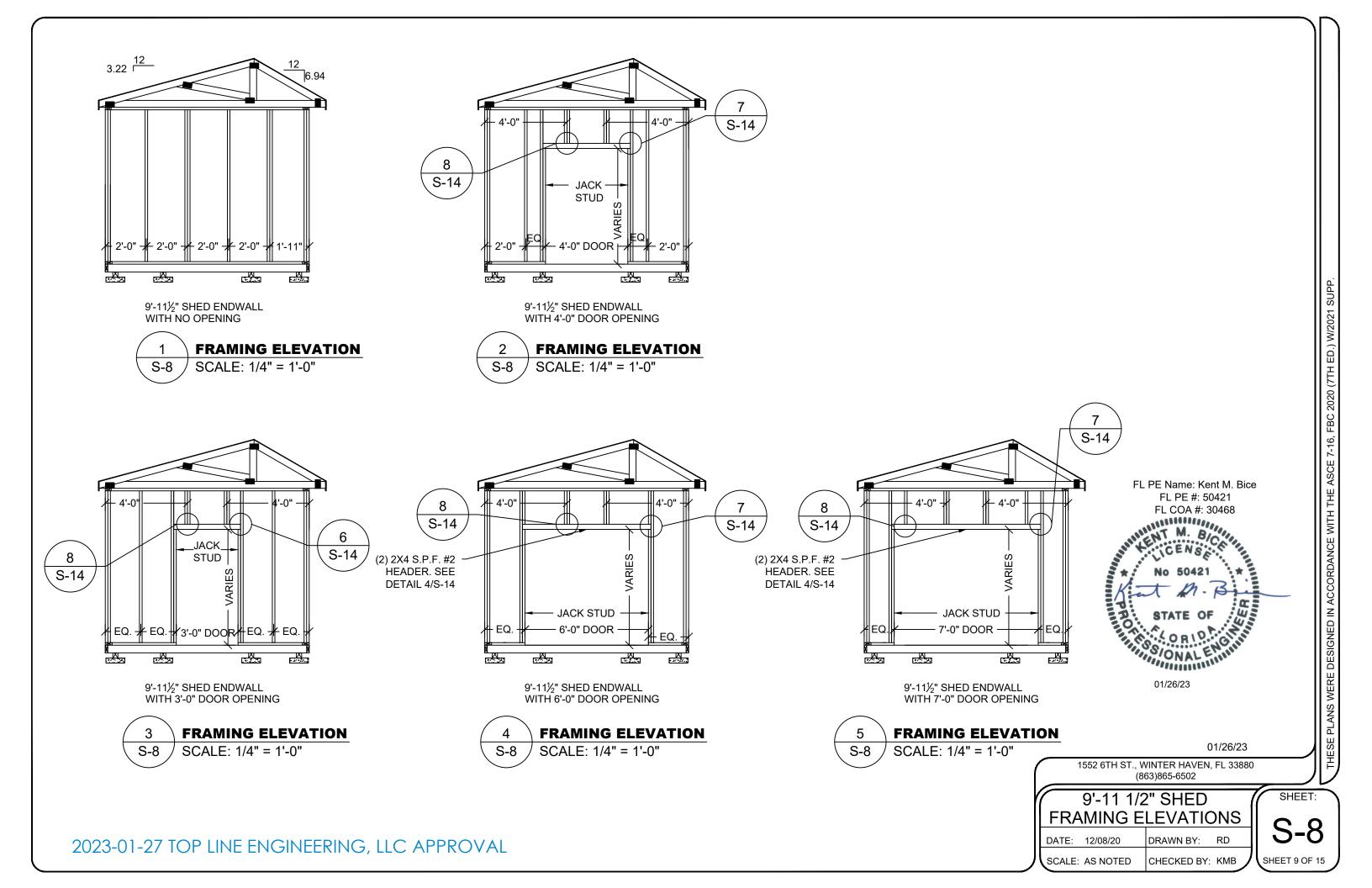
S-7

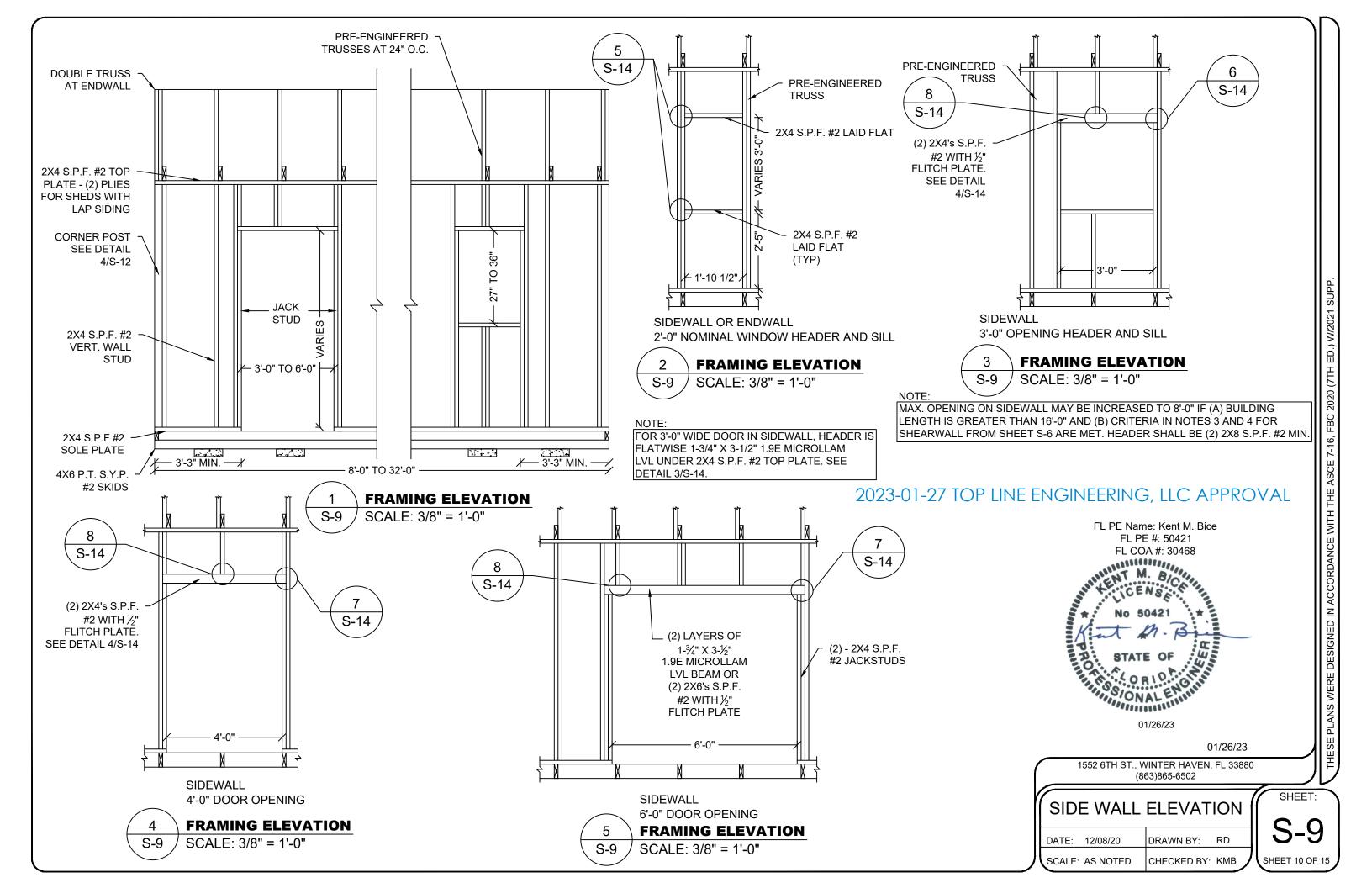
SHEET 8 OF 15

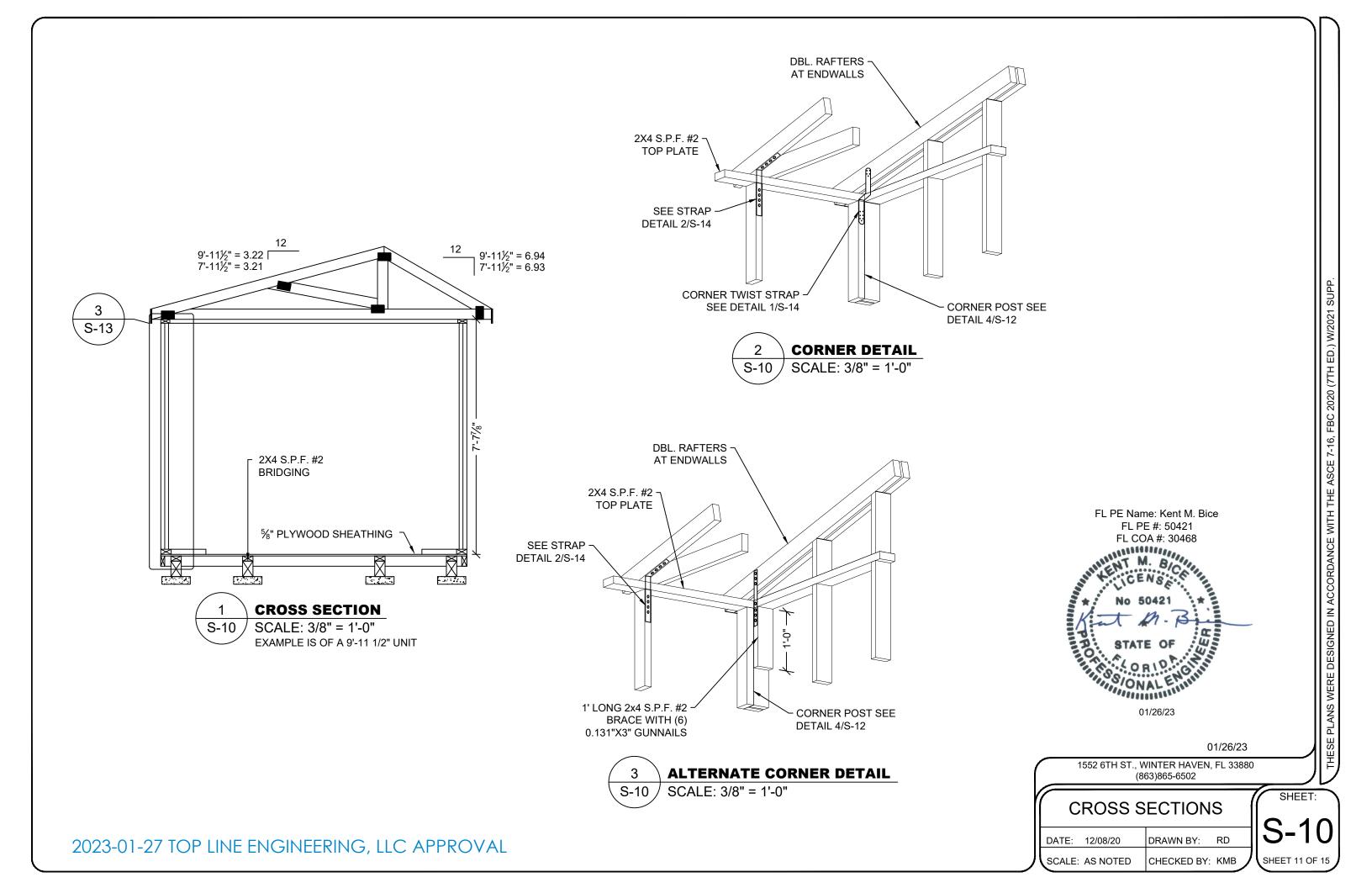
SCALE: AS NOTED

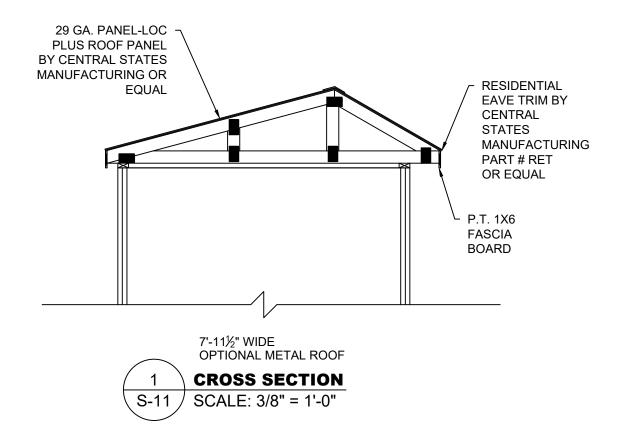
CHECKED BY: KMB

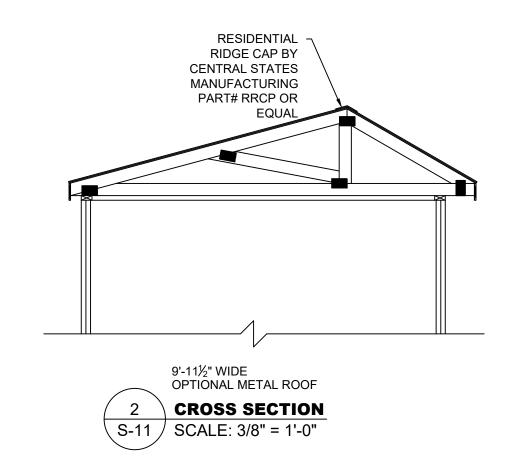
SHEET:

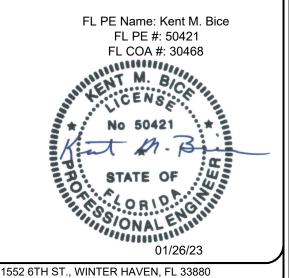












SHEET:

S-1

SHEET 12 OF 15

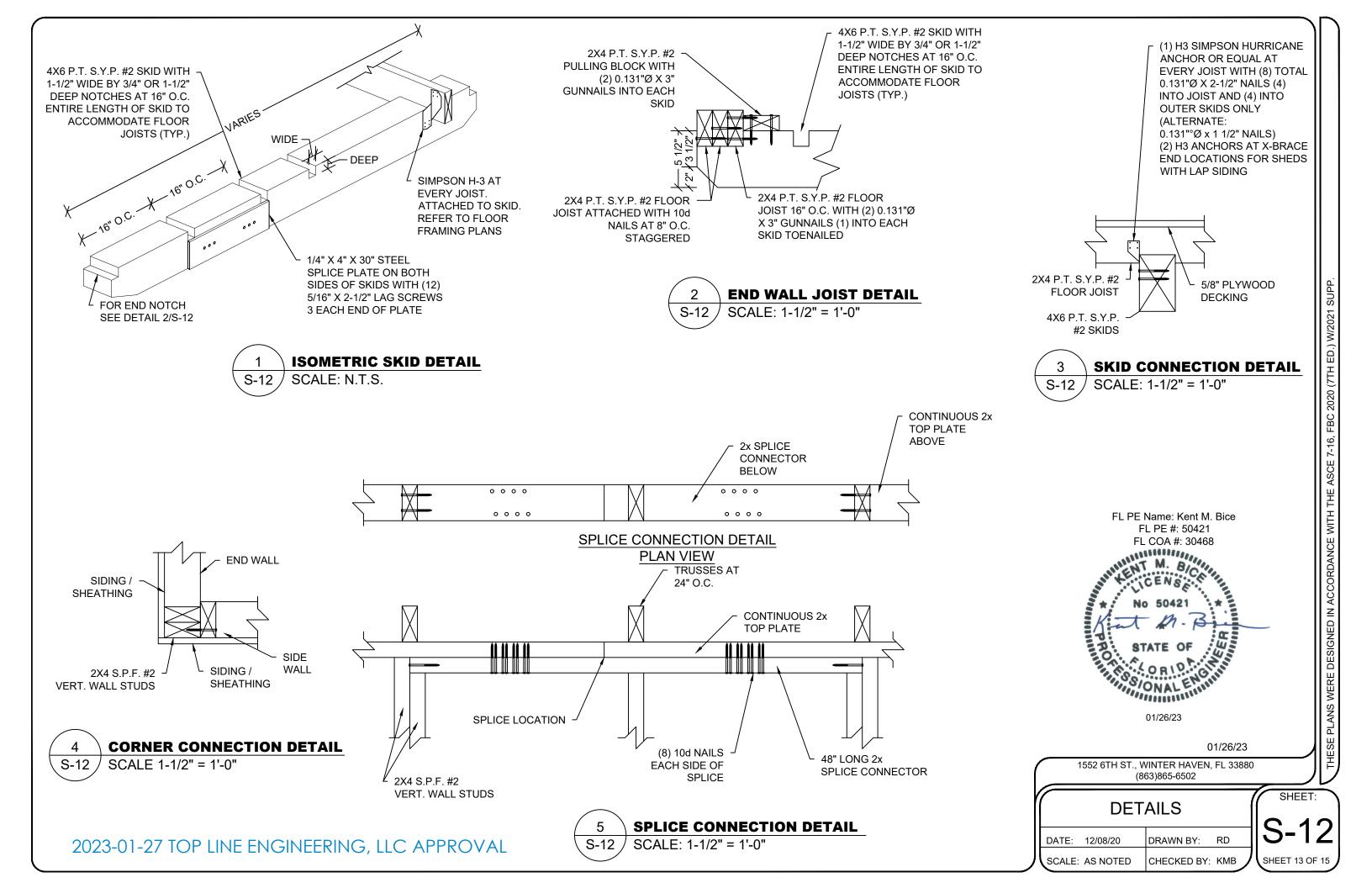
01/26/23

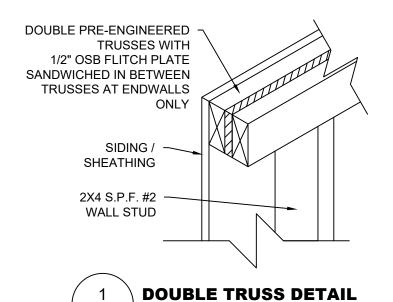
DATE: 12/08/20 DRAWN BY: RD

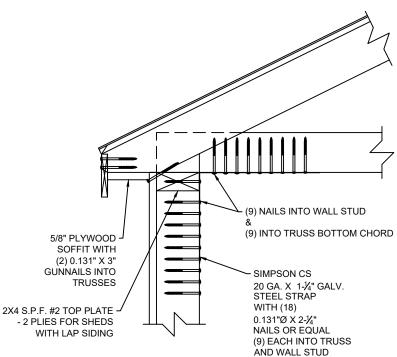
SCALE: AS NOTED CHECKED BY: KMB

CROSS SECTIONS

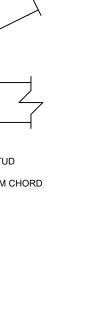
(863)865-6502

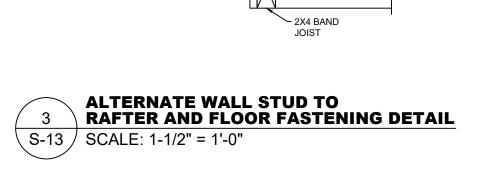






SCALE: 1-1/2" = 1'-0"





ASTM D 7158 CLASS H OR -

ASPHALT SHINGLES OVER APPROVED UNDERLAYMENT,

METHOD OR DESIGN AS

NOTES

SIMPSON LTS12 WITH

(12) TOTAL (6) EACH END OR SIMPSON H8

WITH (8) TOTAL (4) EACH END

0.148"Ø X 1-½" GUNNAILS OR EQUAL

ALTERNATE: 0.131" X

2X4 S.P.F. #2 VERT.

O.C.

1-1/2" NAILS.

WALL STUD

2X4 FLOOR **JOIST**

INTO RAFTERS AND STUD WALLS / TOP PLATE. STRAP MAY BE BENT AROUND TOP PLATE IF WALL STUDS ARE AT 16"

DESCRIBED UNDER GENERAL

 $\%_{6}$ " OSB OR PLYWOOD SHEATHING FASTENED WITH 2-3/8" X 0.113" NAILS AT 6"

1X4 S.Y.P. P.T.

#2 FASCIA

SIDING / SHEATHING -

SEE SHEETS S-6 AND S-6A

O.C. IN FIELD AND EDGES

ASTM D 3161 CLASS F



WALL STUD TO RAFTER FASTENING SCALE: 1-1/2" = 1'-0"

> NOTE: FOR ALL FASTENING OF FRAMING MEMBERS NOT NOTED ON THIS SHEET, REFER TO FASTENING SCHEDULE ON SHEET S-4.

1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

DETAILS RD DATE: 12/08/20 DRAWN BY: SCALE: AS NOTED CHECKED BY: KMB

SHEET:

01/26/23

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE ASCE 7-16, FBC 2020 (7TH ED.) W/2021 SUPP

SHEET 14 OF 15

