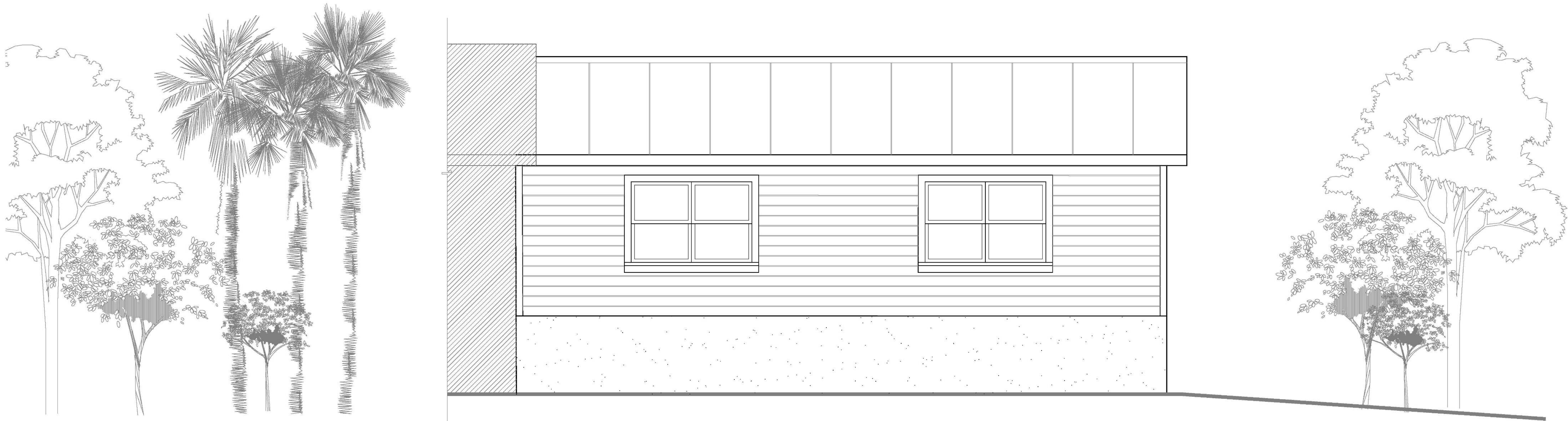


A NEW RESIDENTIAL ADDITON FOR:

JARED & MEGAN JACOBSON

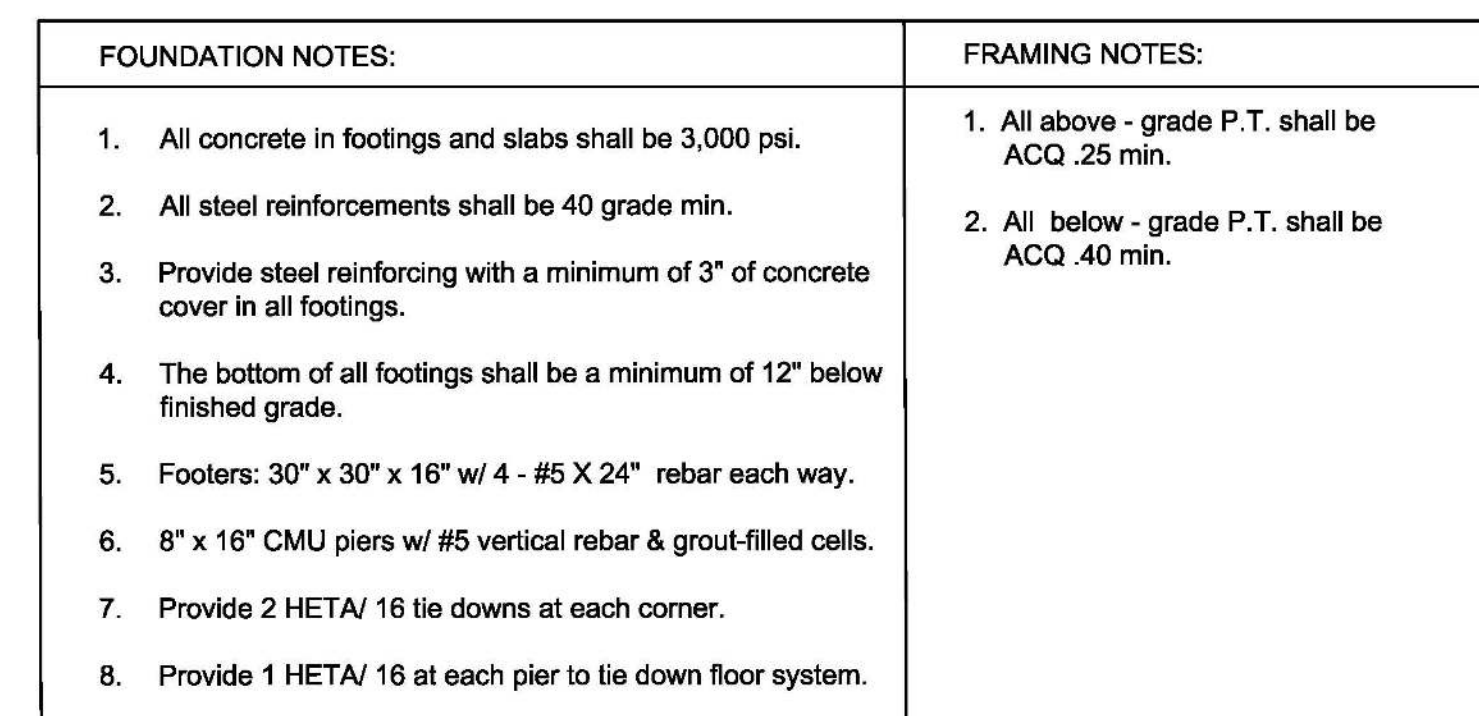
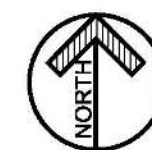


CODE REFERENCES	BUILDING DATA	PROJECT TEAM	INDEX OF DRAWINGS	SITE PLAN	Jacobson Residence 217 SW Boulder Glen Fort White, Florida 32038																																	
<p>APPLICABLE CODES:</p> <p>FLORIDA BUILDING CODE - 2017 EDITION (BUILDING, FUEL GAS, MECHANICAL AND PLUMBING VOLUMES) NFPA 1 UNIFORM FIRE CODE - 2018 EDITION NFPA 70 - NATIONAL ELECTRIC CODE - 2017 EDITION NFPA 101 - LIFE SAFETY CODE, 2018 EDITION</p> <p>OCCUPANCY (FBC CHAPTER 3) : RESIDENTIAL - GROUP R-3</p> <p>TYPE OF CONSTRUCTION (FBC CHAPTER 6) : TYPE V</p> <p>GENERAL BUILDING LIMITATIONS - FL. BLDG. CODE, CHAPTER 5:</p> <table><tr><th>GROUP R-3</th><th colspan="2">TYPE V (UNPROTECTED, SPRINKLERED)</th></tr><tr><th></th><th>ALLOWABLE:</th><th>PROVIDED:</th></tr><tr><td>MAX HEIGHT (TABLE 504.3)</td><td>55' - 65'</td><td>Under 17'</td></tr><tr><td>MAX STORIES (TABLE 504.4)</td><td>4</td><td>1</td></tr><tr><td>MAX AREA (TABLE 506.2)</td><td>UL (UNLIMITED)</td><td>643 s.f. (GROSS)</td></tr></table> <p>MEANS OF EGRESS - FL. BLDG. CODE, CHAPTER 10:</p> <table><tr><th colspan="3">OCCUPANCY CLASSIFICATION</th></tr><tr><th>RESIDENTIAL - GROUP R-3</th><th>REQUIRED</th><th>PROVIDED</th></tr><tr><td>MIN. FLOOR ALLOWANCES / OCCUPANT (TABLE 1004.1.2)</td><td>200 Gross s.f.min. / occupant</td><td>643 Gross s.f.</td></tr><tr><td>SIZE OF EXIT DOORS (1010.1.1)</td><td>32"</td><td>35"</td></tr><tr><td>EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)</td><td>200' (w/out sprinkler system)</td><td>47' max.</td></tr><tr><td>MINIMUM # OF EXITS (1006.3.2 - NOTE 4)</td><td>1</td><td>1</td></tr></table>	GROUP R-3	TYPE V (UNPROTECTED, SPRINKLERED)				ALLOWABLE:	PROVIDED:	MAX HEIGHT (TABLE 504.3)	55' - 65'	Under 17'	MAX STORIES (TABLE 504.4)	4	1	MAX AREA (TABLE 506.2)	UL (UNLIMITED)	643 s.f. (GROSS)	OCCUPANCY CLASSIFICATION			RESIDENTIAL - GROUP R-3	REQUIRED	PROVIDED	MIN. FLOOR ALLOWANCES / OCCUPANT (TABLE 1004.1.2)	200 Gross s.f.min. / occupant	643 Gross s.f.	SIZE OF EXIT DOORS (1010.1.1)	32"	35"	EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)	200' (w/out sprinkler system)	47' max.	MINIMUM # OF EXITS (1006.3.2 - NOTE 4)	1	1	<p>A new, 643 s.f. ( gross.) single-story, wood-framed addition to an existing residence in Fort White, Florida.</p> <p>GENERAL NOTES</p> <div><div><div>1. All dimensions and heights within these drawings are to be considered as +/- and shall be field-verified.</div><div>NOTE: New scissor truss bearing is called out at 8'-0" in these drawings. The trusses and the sheathing and ice and water shield above them must fit under the existing roof rake. Special attention must be made to this issue ( bearing height may need to be lowered) .</div></div><div><div>2. All dimensions are to finished face of GWB partitions, face of CMU and centerline of columns unless otherwise indicated.</div><div>3. If any conflict should arise between the Architect's and the Structural Engineer's drawings / reports, the Engineer's information shall prevail.</div><div>4. All work shall be performed in a first class, workmanlike manner according to best trade practices. Materials and equipment shall be new, and all construction shall be in good and usable condition at the date of completion.</div><div>5. All work shall be performed in accordance with all Federal, State and Local Codes, authorities or agencies having jurisdiction.</div><div>6. The General Contractor shall verify existing conditions of the site. Discrepancies shall be reported to the Architect prior to proceeding with construction.</div><div>7. The General Contractor shall properly protect the work for public safety and against accidents, weather or any other hazard with lights, guard rails or barricades as applicable.</div></div></div>	<p>OWNER:</p> <p>Jared &amp; Megan Jacobson 217 S.W. Boulder Glen Fort White, FL 32038 Cell: 352-262-0489 jared@themasterslawncare.com</p> <p>ARCHITECT:</p> <p>Michele Borst Architect 4926 N.W. 19th Place Gainesville, FL 32605 352-281-4755 micheleborst@gmail.com</p> <p>STRUCTURAL ENGINEER ( Windload Calculations) :</p> <p>Bodo &amp; Associates, Inc. P.O.Box 357605 Gainesville, FL 32635-7605 bodoinc@aol.com</p>	<p>ARCHITECT'S DRAWINGS</p> <p>A000 - COVER SHEET, PROJECT INFORMATION A101 - DEMOLITION, FOUNDATION &amp; FLOOR FRAMING PLANS A102 - FLOOR PLAN A103 - ROOF &amp; ROOF FRAMING PLANS A104 - EXTERIOR ELEVATIONS A105 - BUILDING SECTIONS A106 - ELECTRICAL- LIGHTING &amp; POWER PLAN</p> <p>WIND DESIGN CRITERIA</p> <p>Refer to Wind Load Calculations for wind design pressures.</p> <div><div>Columbia County Building Department</div><div>Plans Reviewed for Code Compliance</div><div>State of Florida</div></div>	<div><div><div><div><div>Existing Residence</div><div>New Addition</div></div><div><div>28'-9½"</div><div>13'-5"</div><div>22'-0½"</div><div>25'-0"</div></div><div>Setback</div><div>Property Line</div></div></div></div> <div><div>SITE PLAN</div><div>SCALE: 1/32" = 1'-0"</div><div><div>NORTH</div></div></div>
GROUP R-3	TYPE V (UNPROTECTED, SPRINKLERED)																																					
	ALLOWABLE:	PROVIDED:																																				
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MINIMUM # OF EXITS (1006.3.2 - NOTE 4)	1	1																																				



# DEMOLITION PLAN

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

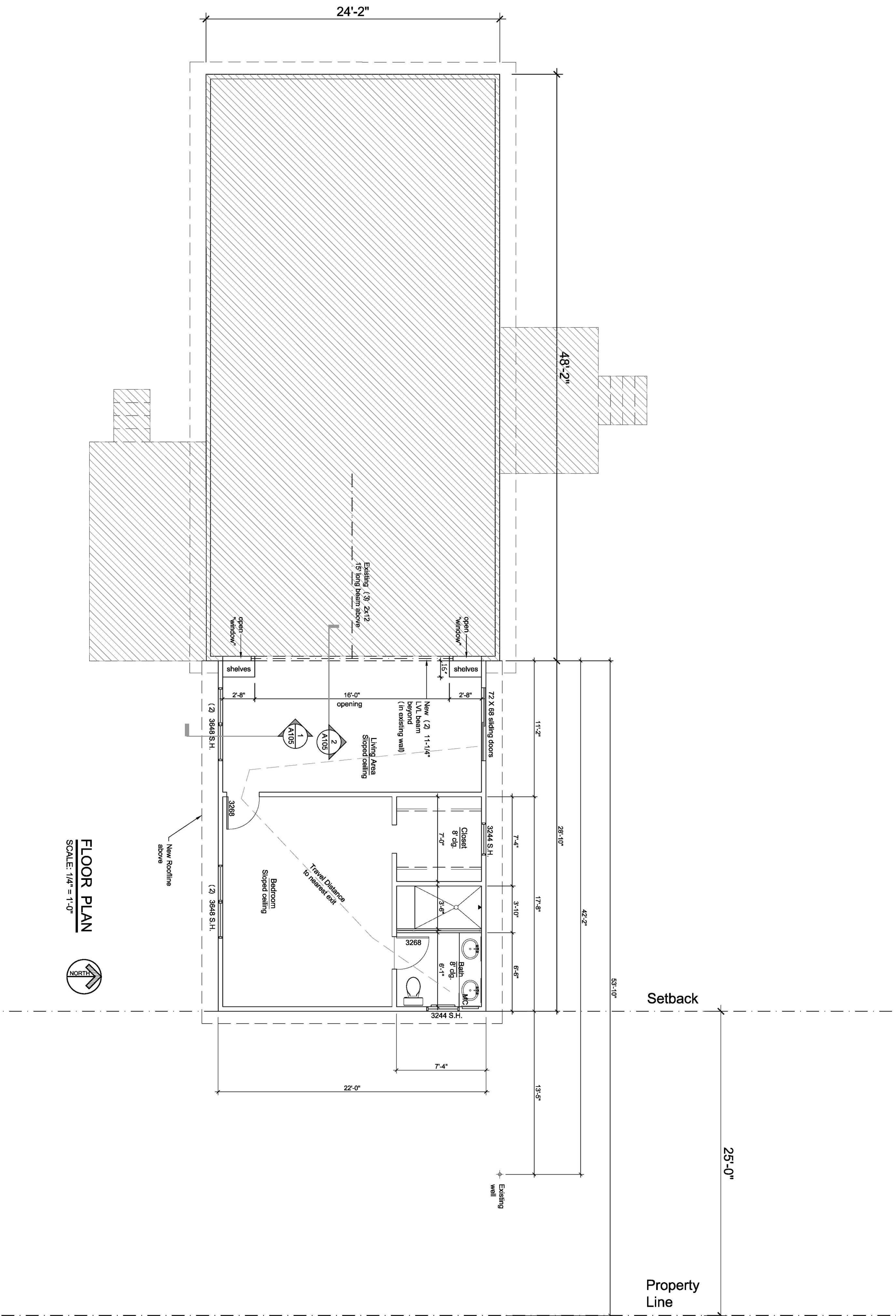


**FOUNDATION & FLOOR FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



Date  
8.08.2020





Revisions

**Michele Borst Architect, P.A.**

Florida License AR 91522  
California License C 15582  
4926 N.W. 19th Place  
Gainesville, FL 32605

Cell: 352.281.4755

micheleborst@gmail.com

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Florida AR 91522

**Jacobson Residence**

217 SW Boulder Glen  
Fort White, Florida 32038

Project No.  
2020.4

Sheet Title  
FLOOR PLAN

Sheet No.

**A102**

Date  
08.08.2020



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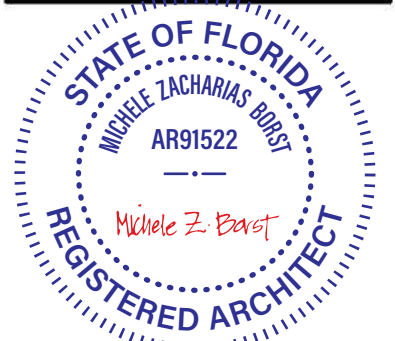
4926 N.W. 19th Place  
Gainesville, FL 32605

Cell: 352.281.4755

micheleborst@gmail.com

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**Jacobson Residence**  
217 SW Boulder Glen  
Fort White, Florida 32038

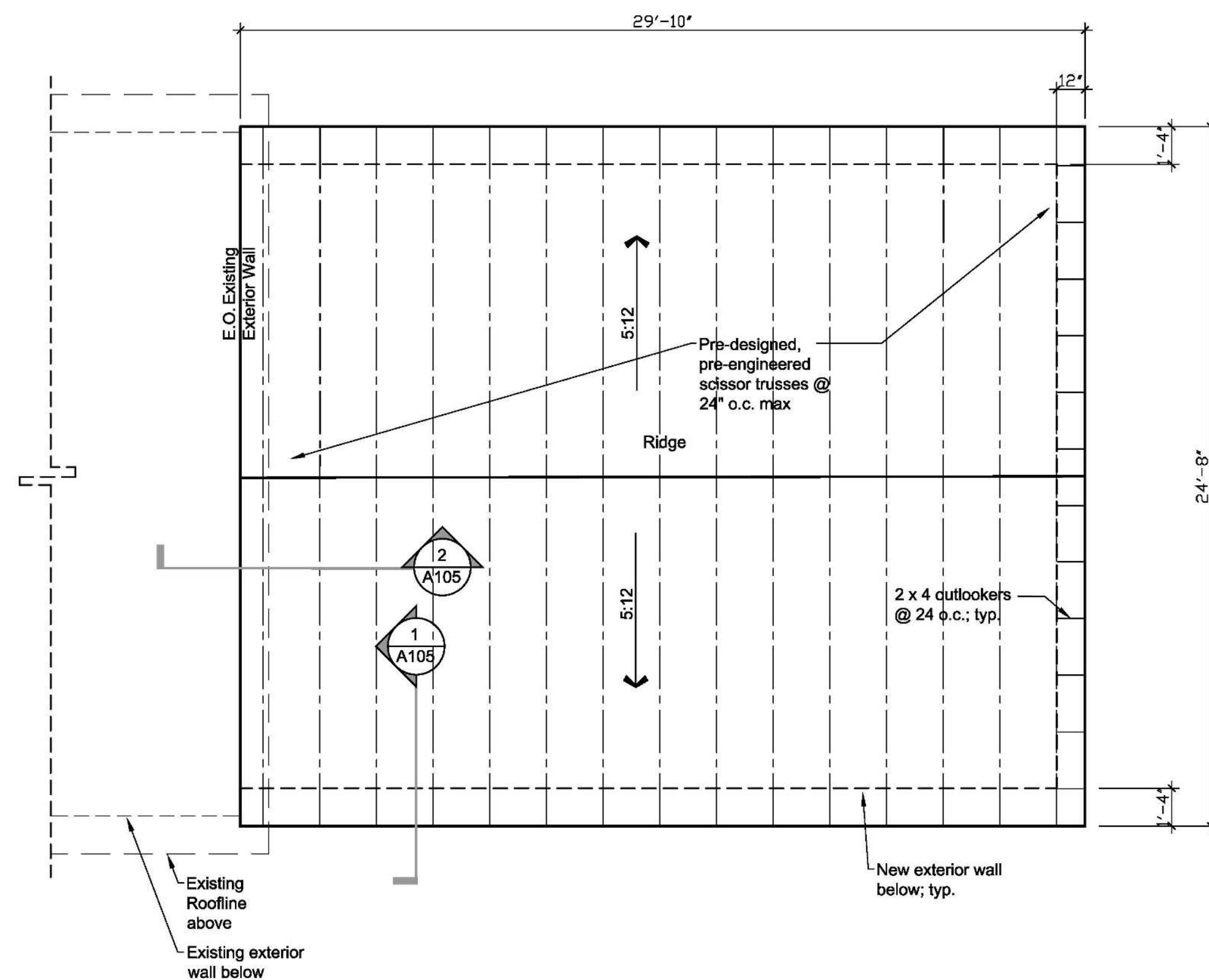
Project No.	2020.4
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Sheet Title  
**ROOF & ROOF  
FRAMING PLANS**

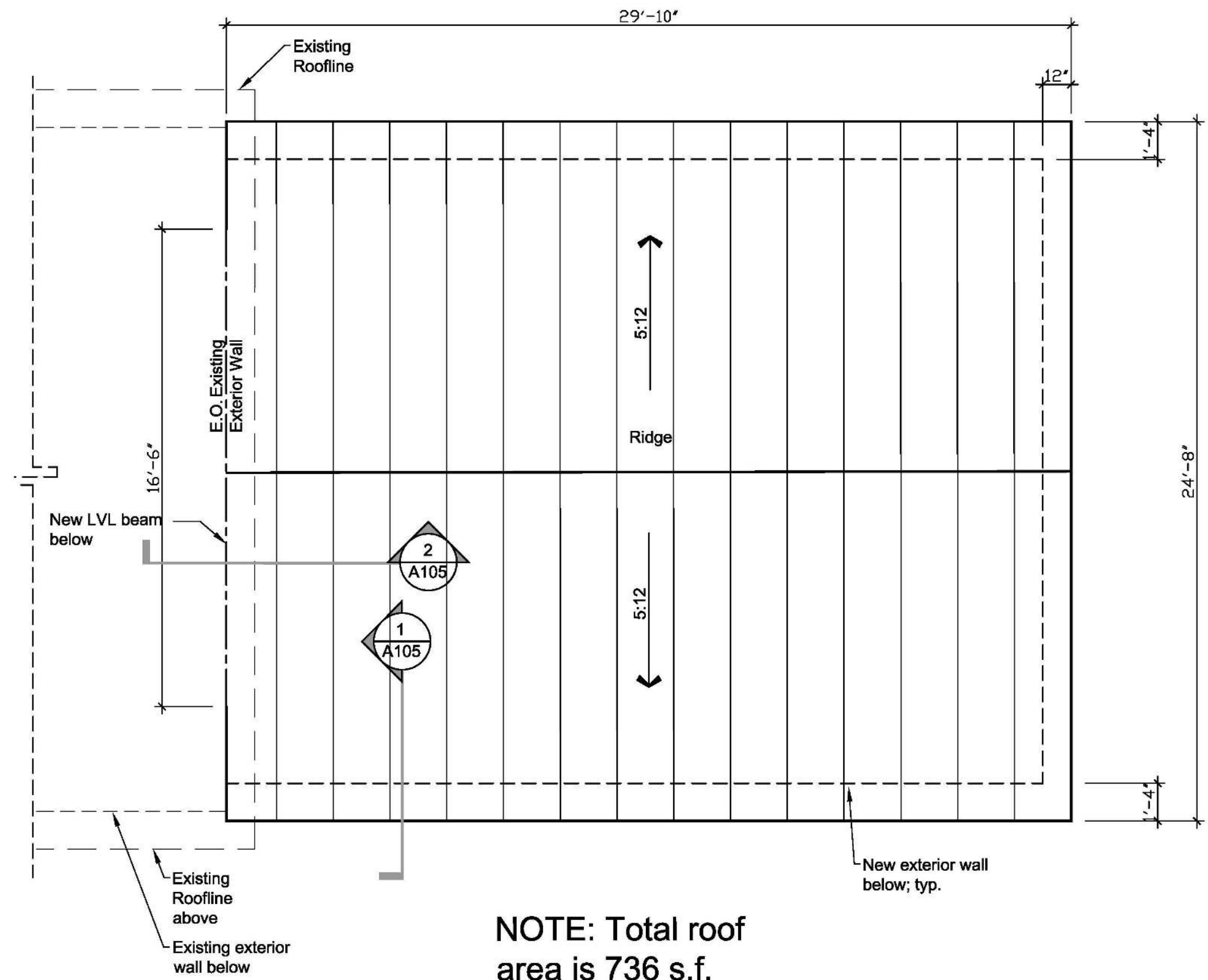
Sheet No.

**A103**

Date
08.08.2020



**ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



**NOTE: Total roof area is 736 s.f.**

**ROOF PLAN**  
SCALE: 1/4" = 1'-0"

**AREAS:**

TOTAL ROOF AREA: 736 S.F.

**LEGEND:**

-----	TRUSS / RAFTER
-----	EXTERIOR WALL BELOW
-----	BEAM BELOW
=====	ALUMINUM GUTTER

STRUCTURAL ENGINEER NOTES:

THE STRUCTURAL ENGINEER HAS PROVIDED ALL REQUIRED INFORMATION PERTAINING TO ALL STRUCTURAL PORTIONS OF THIS PROJECT EXCEPT FOR THE TRUSS DESIGNS, WHICH WILL BE PROVIDED BY A ROOF TRUSS COMPANY. ENGINEERING DESIGN FOR THE ROOF TRUSSES AND ROOF FRAMING WILL BE DESIGNED BY A ROOF TRUSS COMPANY.

**HOLDDOWN SCHEDULE:**

REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL CONNECTORS.

TYPICAL ROOF SHEATHING SCHEDULE:

SEE STRUCTURAL DRAWINGS.

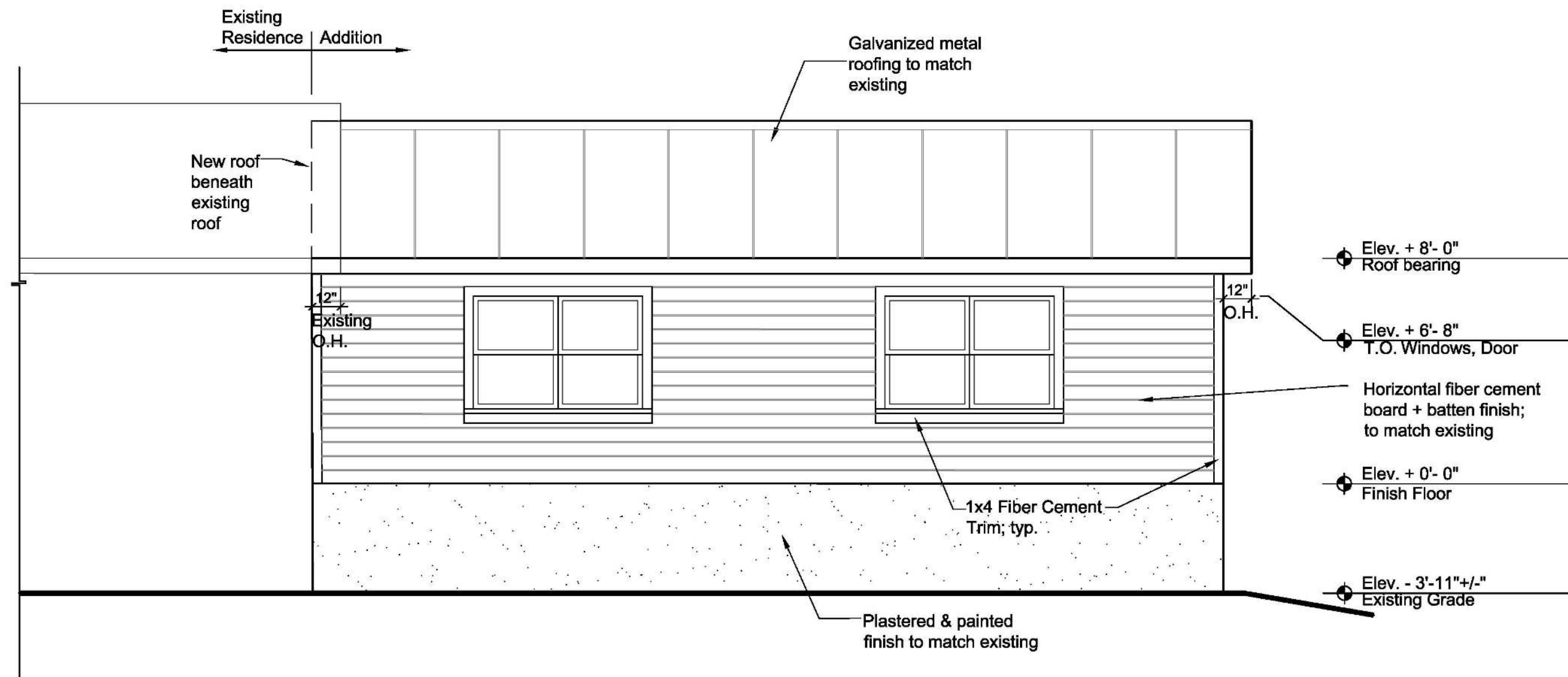
ROOF TRUSS NOTE:

THE TRUSS MANUFACTURER SHALL:

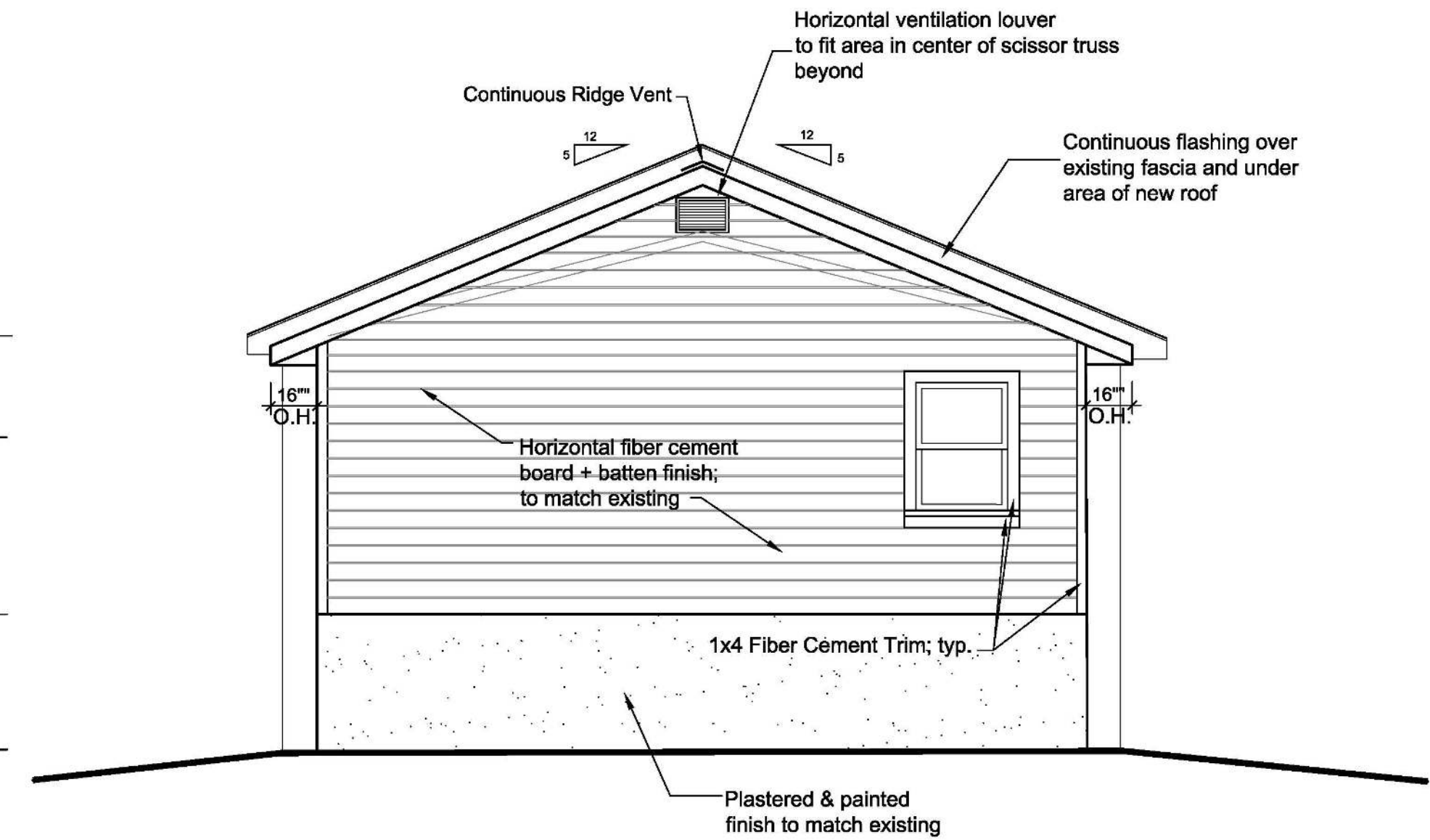
1. VERIFY ALL DIMENSIONS.
2. SUBMIT TRUSS LAYOUT TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
3. SUBMIT SHOP DRAWINGS, WHICH SHALL CONTAIN ALL STRUCTURAL AND WINDLOADING INFORMATION REQUIRED TO DETERMINE ALL LOADING CONDITIONS. DESIGN PARAMETERS FOR LOADING CONDITIONS SHALL BE BASED ON CLEAR SPAN CONDITIONS UNLESS SHOWN OTHERWISE ON ARCHITECT'S CONSTRUCTION DOCUMENTS. ANY PROPOSED DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SHOP DRAWING REVIEW. IF THE ARCHITECT IS NOT NOTIFIED IN ADVANCE, THE GENERAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL COST OF ADDITIONAL WORK THAT IS REQUIRED, INCLUDING - BUT NOT LIMITED TO - ADDITIONAL COLUMNS, FOOTINGS, BEAMS, AND RE-WORK OF EXISTING WORK IN PLACE.

THE ENGINEERED TRUSS PLACEMENTS ON THIS DRAWING ARE  
DIAGRAMATIC ONLY, TO SHOW THE ARCHITECT'S INTENT.  
REFER TO THE TRUSS MANUFACTURER'S DRAWINGS FOR DETAILED  
INFORMATION.

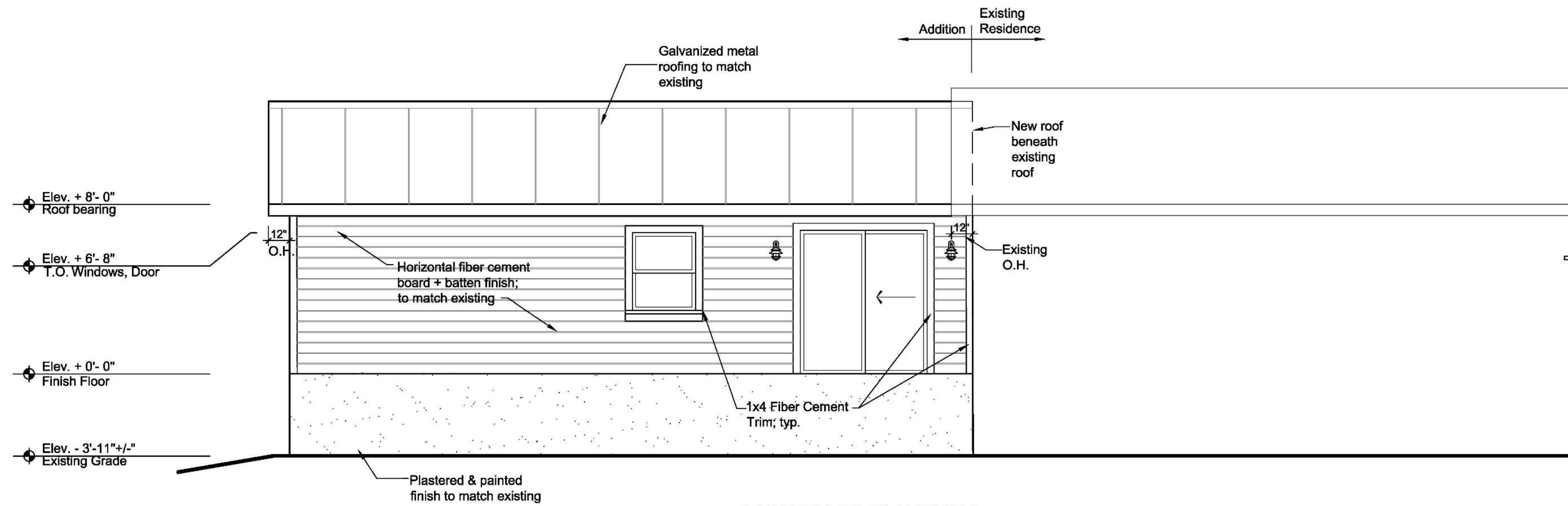




**SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



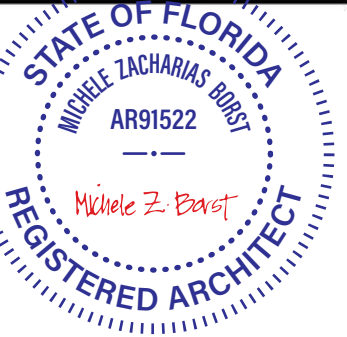
**NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"

Revisions

**Michele Borst Architect, P.A.**

Florida License AR 91522  
California License C 15582  
4928 N.W. 19th Place  
Gainesville, FL 32605  
Cell: 352.281.4755  
micheleborst@gmail.com

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Florida AR 91522



**Jacobson Residence**  
217 SW Boulder Glen  
Fort White, Florida 32038

Project No.  
2020.4

Sheet Title  
EXTERIOR  
ELEVATIONS

Sheet No.

**A104**






























Date  
08.08.2020





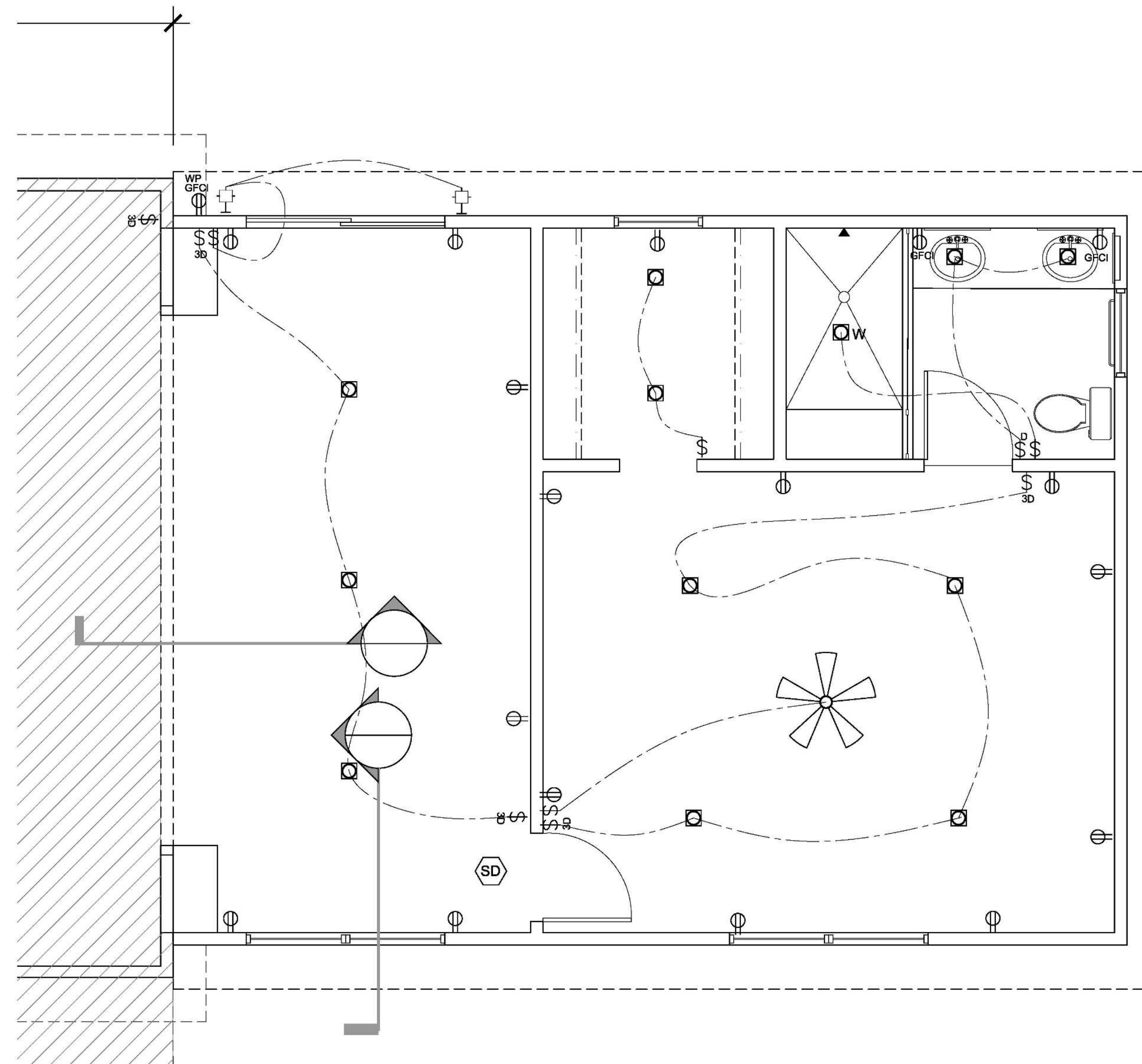


TYPICAL LEGEND; ALL SYMBOLS MAY NOT APPLY

	Single Pole Switch		Recessed Light Fixture
	Fan Light Switch		Recessed Light Fixture; wall - wash
	3-way Switch		Recessed Light Fixture - vaporproof
	4-way Switch		Recessed; waterproof, UL Rated.
	Dimmer Switch		Ceiling-mounted Light Fixture
	Timer		Wall-mounted Light Fixture
	Receptacle - 110 V		Wall-mounted, Exterior rated, UL approved Light Fixture
	Receptacle - 110 V - w/ Ground Fault Circuit Interrupter		Exhaust Fan
	Weatherproof Receptacle - 110 V - w/ Ground Fault Circuit Interrupter		Exhaust Fan with Light
			Heat Lamp
	Electrical Disconnect		Track Lights
	Electrical Panel		Track Lights
	Meter		2 Bulb Fluorescent Fixture
			4 Bulb Fluorescent Fixture
	Hi-output, variable speed paddle fan w/ light fixture; fan and light to be separately controlled.		Photoelectric Smoke Detector
			Photoelectric Smoke Detector w/ sampling tubes in AC Ductwork

1.	ALL ELECTRICAL AND LIGHTING WORK SHALL COMPLY WITH THE MOST CURRENT N.E.C. AND FLORIDA BUILDING CODE REGULATIONS.	7.	ALL TELEPHONE AND DATA WIRING SHALL BE CAT 5-E; TWISTED AND SHIELDED PLENUM RATED. VERIFY WIRE GAUGE AND NUMBER OF PAIRS WITH COMMUNICATIONS CONSULTANT.
2.	THE ELECTRICIAN SHALL VERIFY LOCATIONS AND REQUIREMENTS OF ALL LIGHTING AND SWITCHING - AS WELL AS VARIOUS SYSTEMS REQUIRING ELECTRICAL SERVICE - WITH OWNER, GENERAL CONTRACTOR AND SPECIFIC INSTALLERS - PRIOR TO COMMENCEMENT OF WORK. PROVIDE ALL WIRING AS NEEDED FOR A PROPER AND COMPLETE INSTALLATION.	8.	USE 1-2-3-G WIRE TO ALL PENDANT LIGHTS OR PADDLE FANS.
3.	AN ELECTRICAL ENGINEER OR CONTRACTOR'S MASTER ELECTRICIAN SHALL SIZE PANEL (S) AS NEEDED .	9.	ALL CONDUIT SHALL BE SCHEDULE 40 PVC.
4.	AN ELECTRICAL ENGINEER OR CONTRACTOR'S MASTER ELECTRICIAN SHALL PROVIDE THE ELECTRICAL PANEL SCHEDULE, LOAD CALCULATIONS AND ELECTRICAL RISER DIAGRAM AS REQUIRED BY COUNTY BUILDING DEPARTMENT.	10.	ALL ELECTRIC BOXES WILL BE STEEL, AND ALL STEEL BOXES WILL CONTAIN A GREEN-GROUNDING WIRE AND SCREW.
5.	ALL LOAD CENTERS, BREAKERS AND POWER DISCONNECTS SHALL BE BY SQUARE D.	11.	ALL RECEPTACLES AND SWITCHES SHALL BE LEVITON, DECORA STYLE, IN IVORY.
6.	ALL POWER DISTRIBUTION SHALL BE COPPER WIRE; NO SMALLER THAN 12 GAUGE.	12.	ALL RECEPTACLES SHALL BE LOCATED AT 12" A.F.F. - OF AT 42" ABOVE KITCHEN AND BATHROOM COUNTERTOPS UNLESS OTHERWISE NOTED.
		13.	ALL SWITCHES SHALL BE LOCATED AT 48" A.F.F. UNLESS OTHERWISE NOTED.
		13.	ALL OUTLETS IN BATHROOMS, UTILITY ROOMS AND ANY OTHER WET AREAS TO BE GROUND -FAULT PROTECTED ( GFI)

1. THE ELECTRIC AL POWER & LIGHTING LAYOUT SHOWN ON THIS DRAWING MAY BE REVISED BY THE OWNER WITHIN COMPLIANCE OF ALL REQUIRED BUILDING CODES .



SCALE: 3/8" = 1'-0"

**Michele Borst Architect, P.A.**

Cell: 352.281.4755

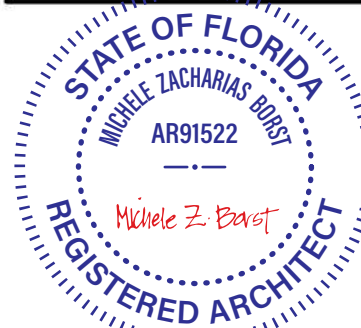
micheleborst@gmail.com

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4926 N.W. 19th Place  
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Florida AR 91522



**Jacobson Residence**  
2217 SW Boulder Glen  
Fort White, Florida 32038

Project No.  
2020.4

Sheet Title
ELECTRICAL -
LTG. & PWR PLAN

Sheet No.

A106

Date  
08.08.2020





Lumber design values are in accordance with ANSI/TPI 1 section 6.3  
These truss designs rely on lumber values established by others.

RE: JACOBSONAD -

**MiTek USA, Inc.**

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: JACOBSON, JARED & MEGAN Project Name: JACOBSON ADDITION Model:

Lot/Block: Subdivision:

Address: 217 SW BOULDER GLEN

City: FT WHITE

State: FL

**Name Address and License # of Structural Engineer of Record, If there is one, for the building.**

Name: License #:

Address:

City: State:

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 2 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T20832474	A	7/24/20
2	T20832475	AET	7/24/20

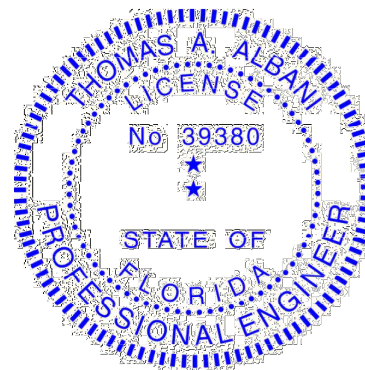
This item has been electronically signed and sealed by Albani, Thomas, PE using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by  
MiTek USA, Inc. under my direct supervision based on the parameters  
provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Albani, Thomas

My license renewal date for the state of Florida is February 28, 2021.



Thomas A. Albani PE No. 39380  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd., Tampa FL 33610  
Date:

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

July 24, 2020

Albani, Thomas

1 of 1



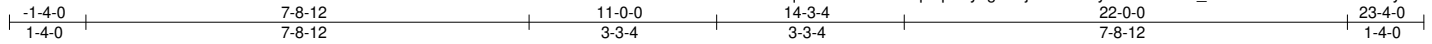
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
JACOBSONAD	A	Scissor	15	1	T20832474

SANTA FE TRUSS COMPANY INC,

BELL FL

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jul 24 11:10:35 2020 Page 1

ID:dqit0Q3ZUdxIEfQlq37pT8ycgXR-j4Zk2CVkyso4ohw1MZ\_4QksSer0Q21N0Z64mSfyutA2



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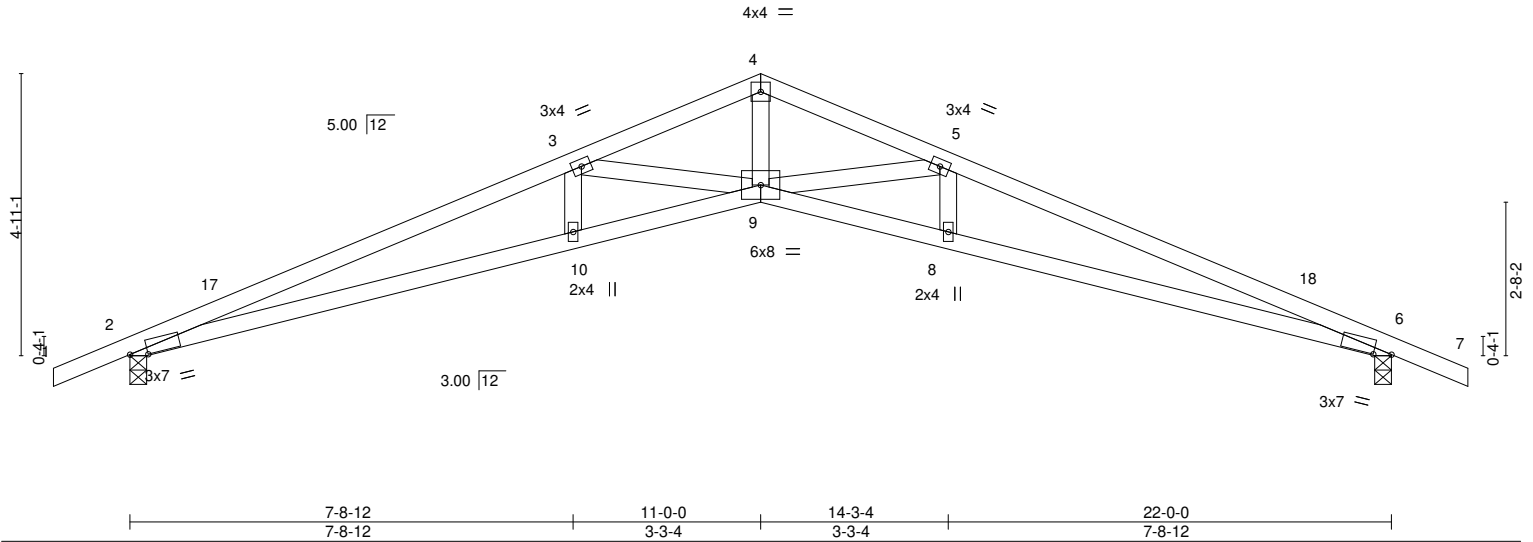


Plate Offsets (X,Y)-- [2:0-3-12,0-0-13], [6:0-3-12,0-0-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.78	Vert(LL)	-0.32	9	>817	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.94	Vert(CT)	-0.65	9	>407	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.43	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.21	9	>999	240	
								Weight: 89 lb	FT = 15%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.**

(size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=-66(LC 10)  
 Max Uplift 2=-95(LC 12), 6=-95(LC 12)  
 Max Grav 2=960(LC 1), 6=960(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3575/318, 3-4=-2726/243, 4-5=-2726/235, 5-6=-3575/340  
 BOT CHORD 2-10=-211/3348, 9-10=-207/3337, 8-9=-244/3337, 6-8=-248/3348  
 WEBS 4-9=-130/1928, 5-9=-825/170, 3-9=-825/172

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2) 11-0-0 to 14-3-4, Interior(1) 14-3-4 to 23-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 95 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Albani, Thomas, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Thomas A. Albani PE No.39380  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa, FL 33610  
 Date:

July 24,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

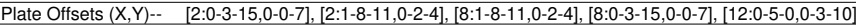
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
 Tampa, FL 33610



Scale = 1:41.5



**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**TOP CHORD** 2-3=-4923/461, 3-4=-4354/410, 4-5=-3114/281, 5-6=-3115/272, 6-7=-4249/394,  
7-8=-4632/367

**BOT CHORD** 2-14=-407/4742, 13-14=-403/4746, 12-13=-335/4155, 11-12=-332/4058, 10-11=-320/4457,  
8-10=-320/4444

**WEBS** 5-12=-104/2081, 6-12=-1072/168, 6-11=0/287, 7-11=-390/0, 4-12=-1166/206,  
4-13=0/303, 3-13=-569/70

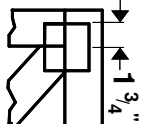
Thomas A. Albani PE No.39380  
MiTek USA, Inc. FL Cert 6634  
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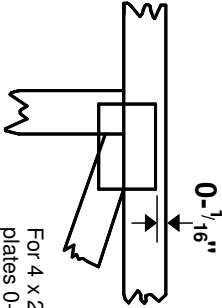


# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

—  
—  
This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in **MITek 20/20** software or upon request.

## PLATE SIZE

4 X 4

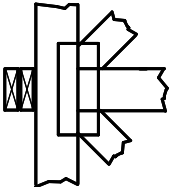
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



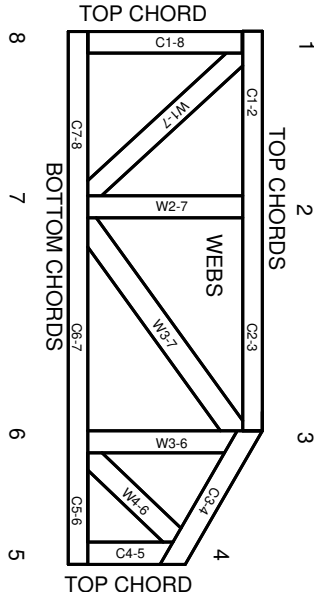
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

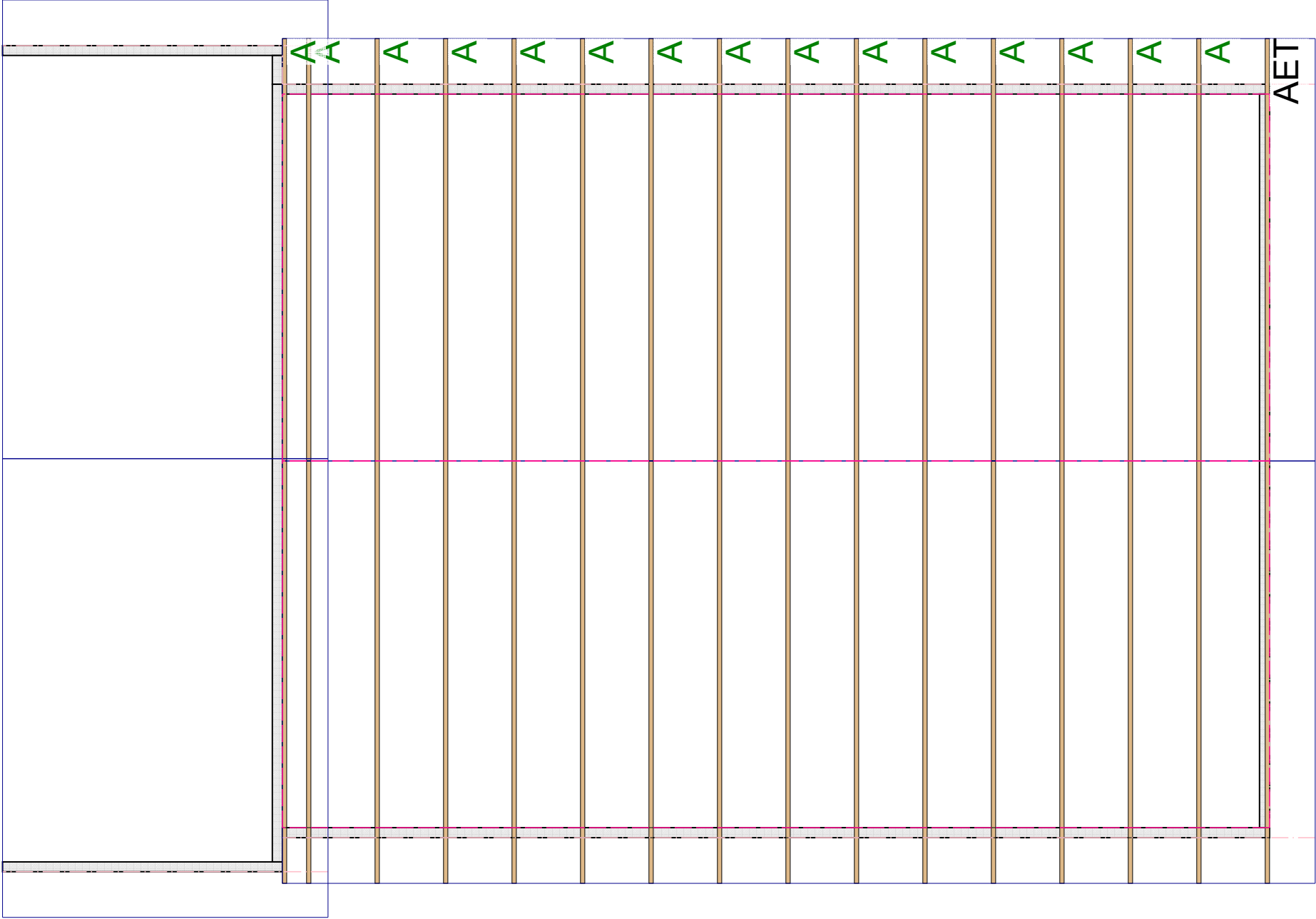
ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)







**Santa Fe Truss**

BELL, FL PHONE 386-454-7711 FAX 800-853-1556

Job Name: JACOBSON ADDITION

Customer: JACOBSON, JARED & MEGAN



**Wind Load Requirements: Jacobson Residence Addition**  
**217 SW Boulder Glen, Fort White, Florida**

Date: August 7, 2020

Project No.: 6800082

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Design Parameters and General Description

Code compliance:	Florida Building Code, 6 <sup>th</sup> edition (2017); ASCE/SEI 7-10	
Risk category:	II	(Table 1604.5) <sup>1</sup>
Ultimate design wind speed, $V_{ult}$ :	130 mph	
Nominal design wind speed, $V_{asd}$ :	101 mph	
Wind directionality factor, $K_d$ :	0.85	(Table 26.6-1) <sup>2</sup>
Exposure category:	B	(Section 26.7)
Topographic factor, $K_{zt}$ :	1.0	(Section 26.8)
Gust effect factor, $G$ :	0.85	(Section 26.9.1)
Enclosure class:	enclosed (by definition)	(Section 26.2)
Int. press. coeff., $GC_{pi}$ :	$\pm 0.18$	(Table 26.11-1)
Mean roof height:	<30 ft.	
Number of stories:	one	
Plan dimensions:	22.00 ft. x 28.83 ft.	
Exterior walls:	wood frame	
Type of roof:	gable	
Roof slope:	5:12	
Eave height:	<10 ft.	
Roof overhang:	1.33 ft.	

Drawings

See drawings for additional details. In case of conflict, the more restrictive requirements of the drawings or these calculations govern.

Roof Framing

Pre-engineered wood trusses at 24" o.c. See truss design by *Thomas A. Albani, PE*, dated July 24, 2020 for details.

Roof Sheathing

Minimum 7/16" Exposure 1 wood structural panels.  
Install with long dimension perpendicular to framing  
and staggered end joints. Fasten to roof framing w/ 8d  
common or ring-shank nails at 6 in. o.c. on edges and 6 in. o.c.  
at intermediate framing. **Use 8d ring-shank nails spaced  
at 4 in. o.c. within five feet of roof edges.** Provide  
blocking at 48 in. max. o.c. in first two framing spaces  
at gable end. Blocking shall be full depth of truss chords.

Attila A. Bodo  
State of Florida  
Professional Engineer  
License No. 15834

This document has been digitally signed  
and sealed by Attila A. Bodo, PE on  
August 7, 2020 using a digital signature.  
Printed copies of this document are not  
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**SHA** authentication code must be  
verified on any electronic copies.

<sup>1</sup> Florida Building Code, Building, 6<sup>th</sup> edition (2017)

<sup>2</sup> Unless noted otherwise, references are in ASCE/SEI 7-10.



**Wind Load Requirements: Jacobson Residence Addition**  
**217 SW Boulder Glen, Fort White, Florida**

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Maximum Wind Pressures

MWFRS:

exposure coefficient, $K_h$ :	0.70	(Table 28.3-1)
velocity pressure, $q_z$ :	25.7 psf	(Eq. 28.3-1)
roof external pressure coefficient, $GC_{pf}$ :	-1.07 (maximum)	(Fig. 28.4-1)
maximum design wind pressure on roof:	-32.2 psf	(Eq. 28.4-1)
total wall external pressure coefficient, $GC_{pf}$ :	1.44 (maximum)	(Fig. 28.4-1)
total design wind pressure on walls:	37.1 psf	(Eq. 28.4-1)

Components and cladding (C&C):

exposure coefficient, $K_h$ :	0.70	(Table 30.3-1)
velocity pressure, $q_z$ :	25.7 psf	(Eq. 30.3-1)
roof external pressure coefficient, $GC_p$ :	-2.6 (maximum)	(Fig. 30.4-2B)
roof design wind pressure, $p$ :	-71.6 psf	(Eq. 30.4-1)
wall external pressure coefficient, $GC_p$ :	-1.4 (maximum)	(Fig. 30.4-1)
wall design wind pressure, $p$ :	-40.7 psf	(Eq. 30.4-1)

Exterior Frame Walls

Studs: 2x4 at 16" o.c.

**use:** SPF No. 2 grade or better

Shearwall Sheathing

Minimum 15/32" sheathing grade plywood or 7/16" OSB; attach all edges to framing with 8d common nails at 4 in. o.c. Attach to intermediate framing with 8d common nails at 12 in. o.c. Sheathing shall be applied to outside face of **all exterior frame walls**.

Headers

Provide headers in accordance with Section 2308 of the *Florida Building Code, Building, 6<sup>th</sup> edition (2017)* and/or the drawings.



**Wind Load Requirements: Jacobson Residence Addition**  
**217 SW Boulder Glen, Fort White, Florida**

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**Foundations** (sizes based on wind load requirements only)

Pier footing: 2'-6"x2'-6"x1'-4" T, reinforced with (4) #5x24" bars each way. The bottom of the footing shall be at least 12" below finished grade.

Pier: 8x16 concrete masonry units, all cells filled, reinforced with (1) #5 dowel in each filled cell.

**Connector Schedule**

To Connect	To	No.	Product Code <sup>(1)</sup>	Fastener	Uplift/ Lateral Capacity, lb
truss A; joint 2	top plates	1	H2.5T	(5+5) 8dx1 1/2" common nails	420/145
truss A; joint 6	top plates	1	TC24 <sup>(3)</sup>	(4+4) 10dx3" common nails	300/-
truss AET; joint 2	top plates	1	H2.5T	(5+5) 8dx1 1/2" common nails	420/145
truss AET; joint 8	top plates	1	TC24 <sup>(3)</sup>	(4+4) 10dx3" common nails	300/-
top plates	stud	1	SSP	(3+4) 10dx1 1/2" common nails	330/-
stud	perimeter beam <sup>(4)</sup>	1	MSTA15	(6+6) 10dx2 1/2" common nails	970/-
header	header stud(s)	1 <sup>(2)</sup>	MSTA15	(6+6) 10dx2 1/2" common nails	970/-
header stud(s)	perimeter beam <sup>(4)</sup>	1 <sup>(2)</sup>	MSTA15	(6+6) 10dx2 1/2" common nails	970/-
floor joist	perimeter beam	1	LUS26	(4+4) 10dx3" common nails	1165/-
long perimeter beam	short perimeter beam	1	HUC28-2 <sup>(5)</sup>	(6) 10dx3" into long beam (12) 16dx3 1/2" into short beam	2085/-
perimeter beam	concrete	1	META16	(8) 10dx1 1/2" common nails	1450/340

Notes:

- Product codes refer to connector hardware as manufactured by Simpson Strong-Tie Company, Inc., Pleasanton, CA. Other manufacturers' products of equal or higher capacity may be substituted.
- Use one connector on each header stud.
- Drive the nails into the truss at the inside end of the slotted holes and clinch on back side. Do not seat these nails into the truss, allow room under the nail head for movement of the truss relative to the wall.
- All metal hardware and fasteners in contact with pressure-treated wood shall be corrosion-resistant.
- At cantilevered end only (near existing house).
- Unless noted otherwise, all nails to be common wire nails with the following diameters:
  - 8d: 0.131 in.
  - 10d: 0.148 in.
  - 16d: 0.162 in.
- Connections not otherwise specified herein or shown on the drawings shall be in accordance with the *Florida Building Code, Building, 6<sup>th</sup> edition (2017)*.