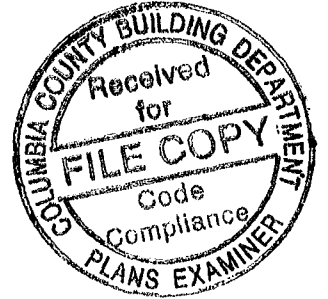
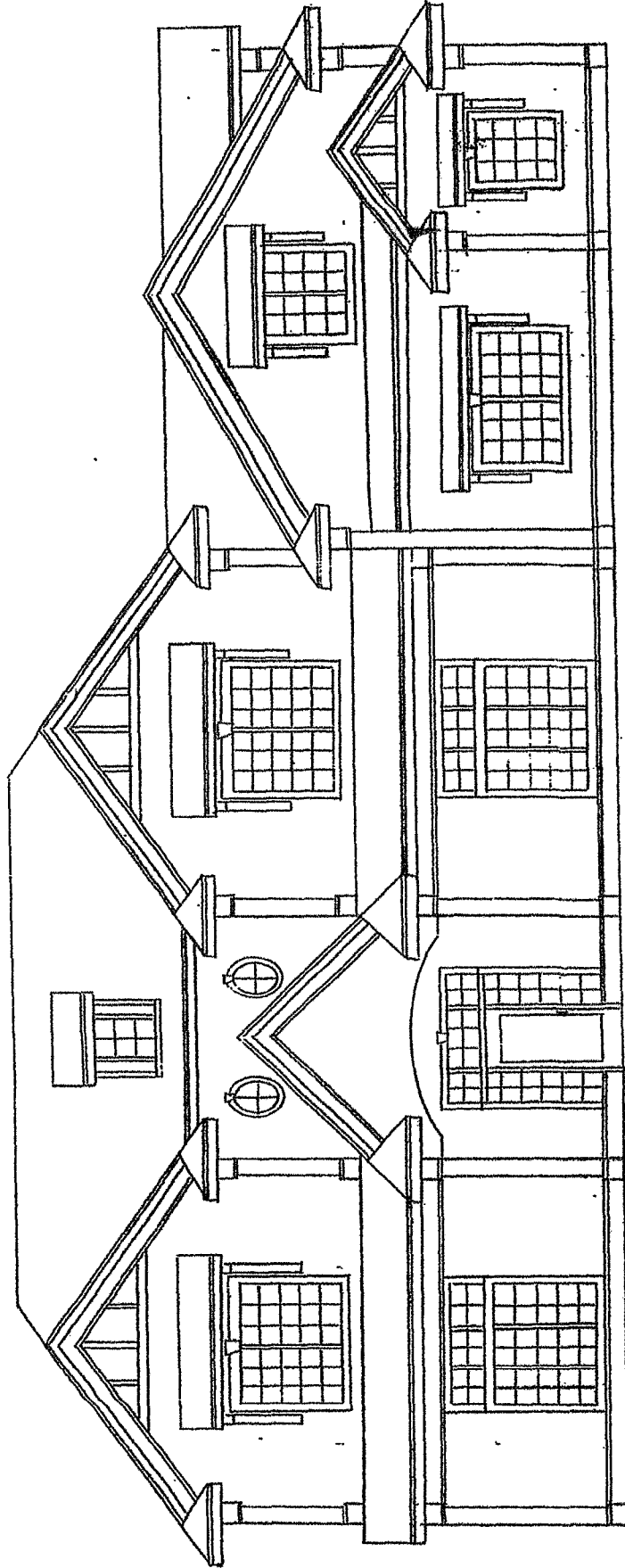
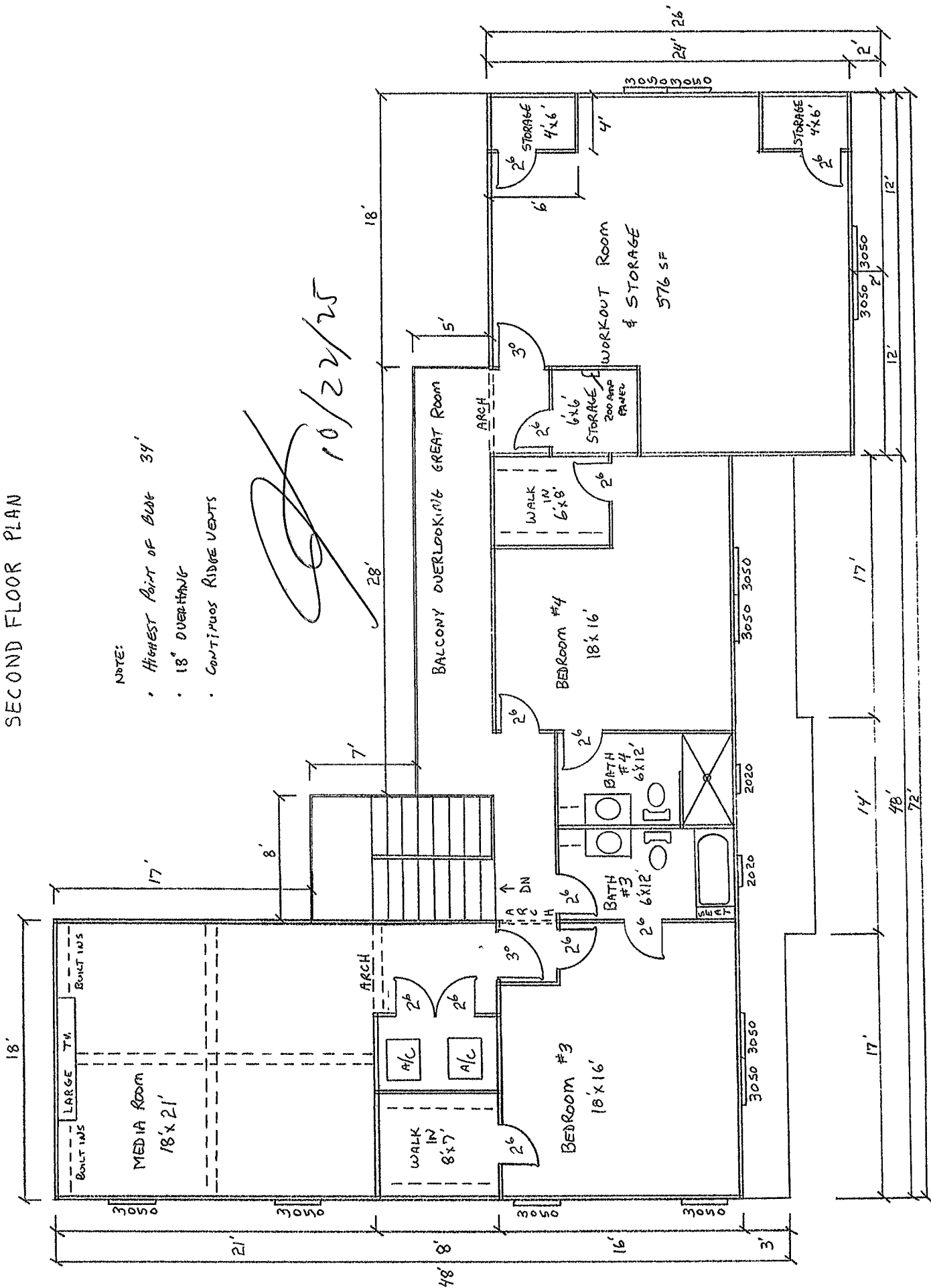


[Signature]
10/22/25



LERNER PAGE 1

SECOND FLOOR PLAN

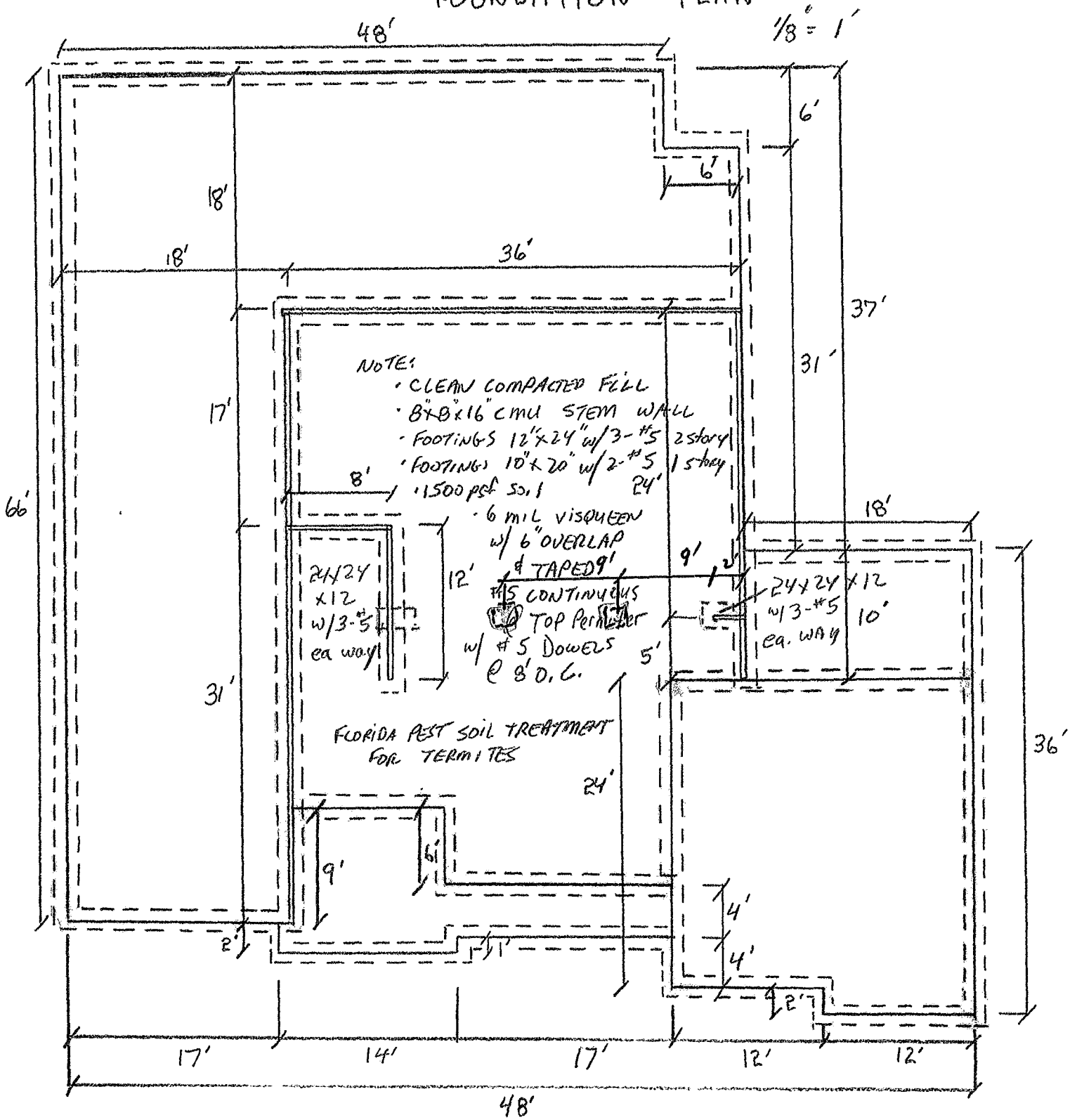


NOTE:

- HIGHEST POINT OF CEILING 34'
- 18" OVERHANG
- CONTINUOUS RIDGE VENTS

10/22/25

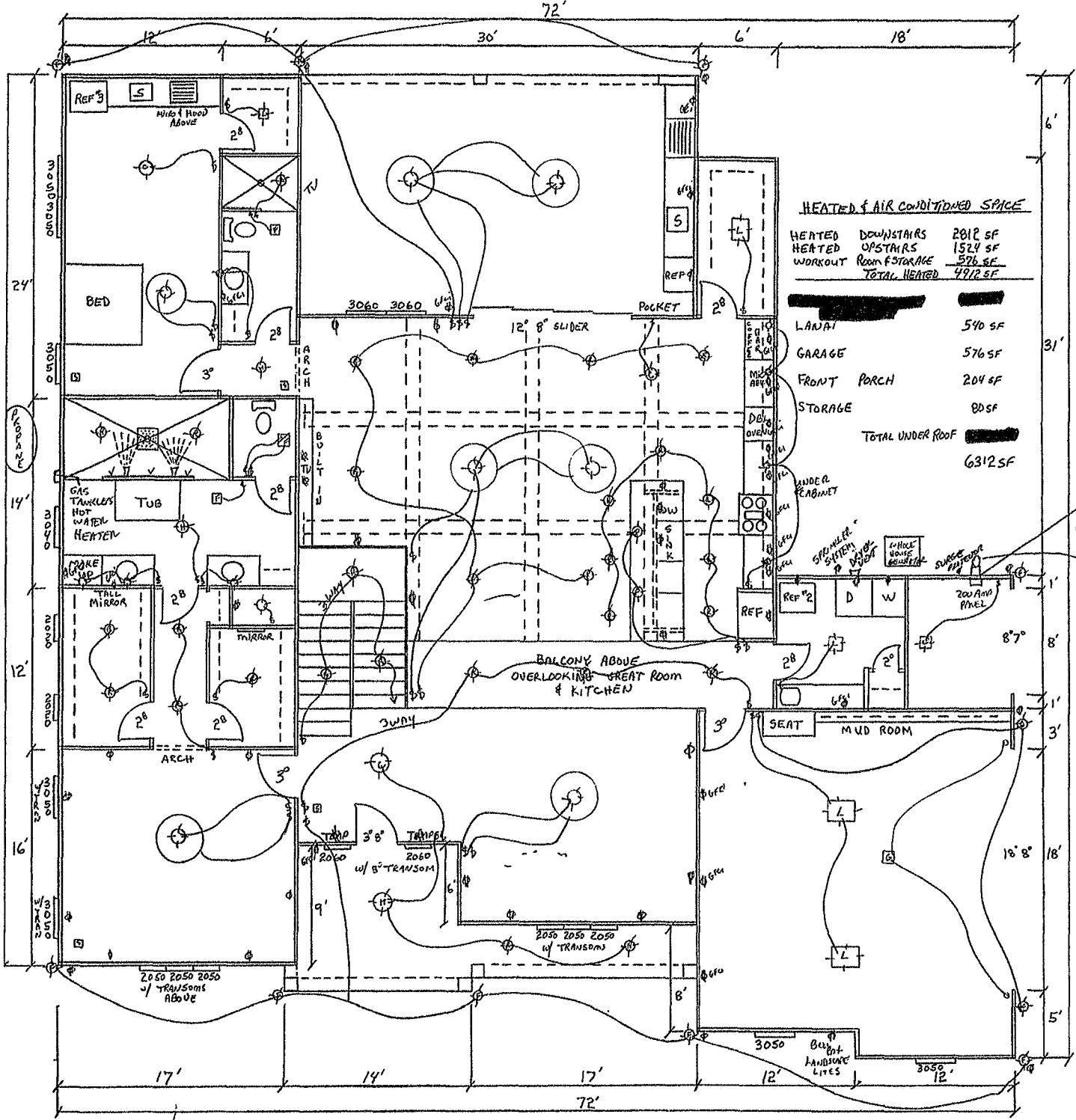
FOUNDATION PLAN



DENOTES 2 STORY SECTION
 12" x 24" w/ 3-#5 REBAR

ALL OTHER FOOTINGS TO BE
 10" x 20" w/ 2-#5 REBAR

FIRST FLOOR PLAN ELECTRICAL



HEATED & AIR CONDITIONED SPACE

HEATED DOWNSTAIRS	2012 SF
HEATED UPSTAIRS	1524 SF
WORKOUT ROOM STORAGE	576 SF
TOTAL HEATED	4912 SF

LANAI	540 SF
GARAGE	576 SF
FRONT PORCH	204 SF
STORAGE	80 SF
TOTAL UNDER ROOF	6312 SF

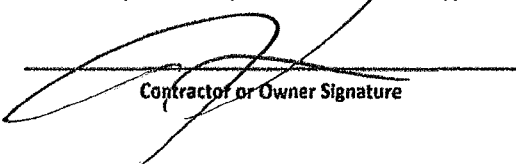
WELL
1 HP
81 GALLON TANK

UNDERGROUND
TO
TRANSFORMER
160'

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	PLASTARO	FIBERGLASS	FL-17347.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	YKK	VINYL Lwd E	FL 8114
B. HORIZONTAL SLIDER	SIMONTON	VINYL 12" B POCKET DOOR	41795
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	HARDIPLANK	BOARD & BATTEN	FL 13192
B. SOFFITS		ALUMINUM	12-198-1
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	I KO	FIBERGLASS LIFETIME	FL 30310-R1
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER UNDERLAYMENT	ABC	SYNTHETIC PROGUARD	FL 15216-R5
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS	SIMPSON	HURRICANE CLIPS + STRAPS	10456.7
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the Inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.


Contractor or Owner Signature

NOTES: _____

SUBCONTRACTOR VERIFICATION

JOB NAME: 1 ERNER LUXURY PROPERTIES SPEC HOME
292 HERMITAGE GREEN COURT

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County uses combination permits. One permit will cover all trades doing work at the permitted site. It is the responsibility of the general contractor to provide a list of the subcontractors who actually did the trade-specific work under the general combination permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.
 Use website to confirm licenses: <http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx>

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.
 Violations will result in stop work orders and/or fines.

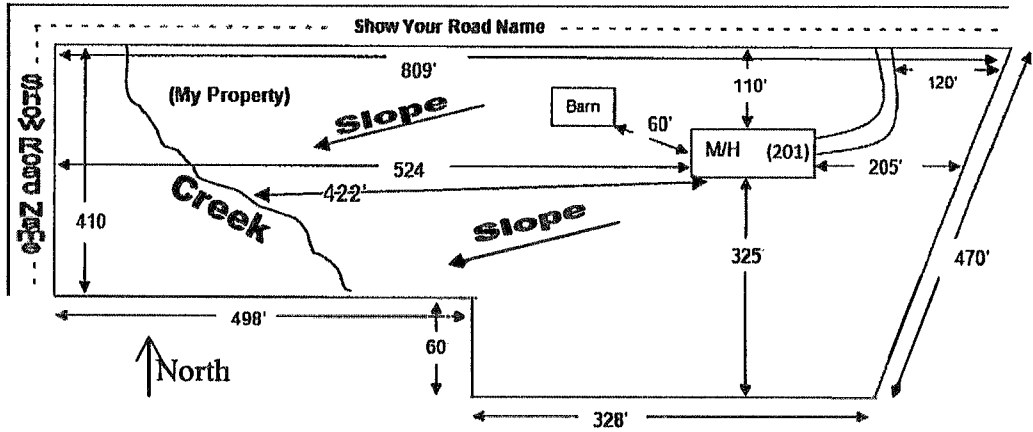
<input checked="" type="checkbox"/> ELECTRICAL	Print Name: <u>RYAN BEVILLE</u>	Signature: <u>[Signature]</u>
<input type="checkbox"/>	Company Name: <u>RBI</u>	
CC#	License #: <u>11777</u>	Phone #: <u>352-514-0428</u>
<input checked="" type="checkbox"/> MECHANICAL	Print Name: <u>ROBERT BOUNDS</u>	Signature: <u>[Signature]</u>
<input type="checkbox"/> A/C	Company Name: <u>BOUNDS A/C</u>	
CC#	License #: <u>CAC057642</u>	Phone #: <u>(352) 472-2761</u>
<input checked="" type="checkbox"/> PLUMBING	Print Name: <u>KEVIN COLEMAN</u>	Signature: <u>[Signature]</u>
<input type="checkbox"/> GAS	Company Name: <u>COLEMAN'S PLUMBING</u>	
CC#	License #: <u>CC1425624</u>	Phone #: <u>352-472-4114</u>
<input checked="" type="checkbox"/> ROOFING	Print Name: <u>BEN KEELER</u>	Signature: <u>[Signature]</u>
<input type="checkbox"/>	Company Name: <u>KEELER ROOFING</u>	
CC#	License #: <u>CC01330509</u>	Phone #: <u>352-514-8930</u>
<input type="checkbox"/> SHEET METAL	Print Name: _____	Signature: _____
<input type="checkbox"/>	Company Name: <u>N/A</u>	
CC#	License #: _____	Phone #: _____
<input type="checkbox"/> FIRE SYSTEM	Print Name: _____	Signature: _____
<input type="checkbox"/> SPRINKLER	Company Name: <u>N/A</u>	
CC#	License #: _____	Phone #: _____
<input type="checkbox"/> SOLAR	Print Name: _____	Signature: _____
<input type="checkbox"/>	Company Name: <u>N/A</u>	
CC#	License #: _____	Phone #: _____
<input checked="" type="checkbox"/> STATE SPECIALTY	Print Name: <u>TERRY MAULDIN</u>	Signature: <u>[Signature]</u>
<input type="checkbox"/>	Company Name: <u>MAULDIN GAS</u>	
CC#	License #: <u>①</u>	Phone #: _____

SITE PLAN CHECKLIST

- ✓ 1) Property Dimensions
- ✓ 2) Footprint of proposed and existing structures (including decks), label these with existing addresses
- ✓ 3) Distance from structures to all property lines
- ✓ 4) Location and size of easements
- ✓ 5) Driveway path and distance at the entrance to the nearest property line
- ✓ 6) Location and distance from any waters; sink holes; wetlands; and etc.
- ✓ 7) Show slopes and or drainage paths
- ___ 8) Arrow showing North direction

SITE PLAN EXAMPLE

Revised 7/1/15

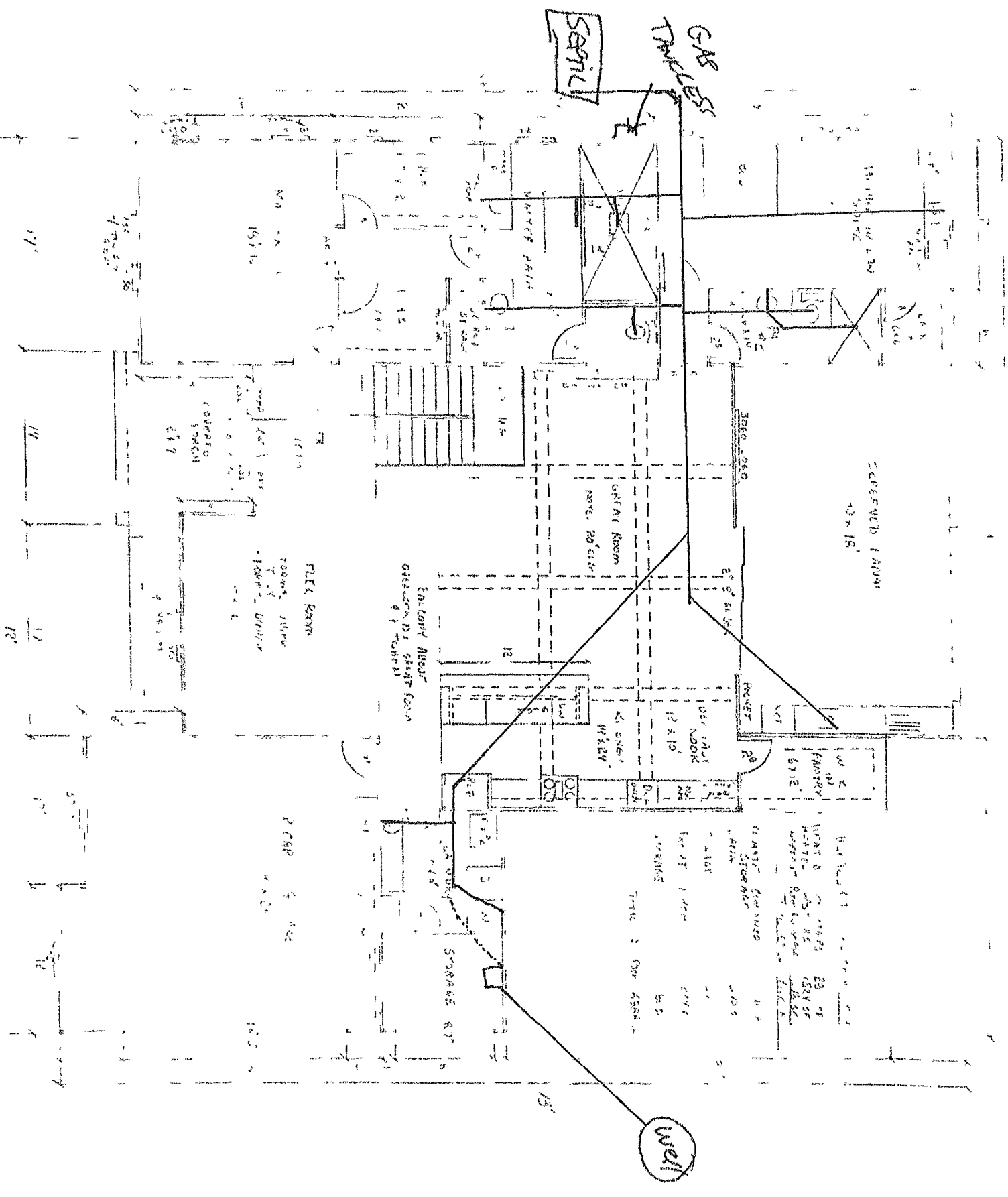


NOTE:

This site plan can be copied and used with the 911 Addressing Dept. application forms.

PLAN

PLUMBING WASTE WATER



GAS TRAPLESS
SEWER

CHECKED 1/10/11
12 x 18'

ENCLOSURE ABOUT
GAS TRAPLESS

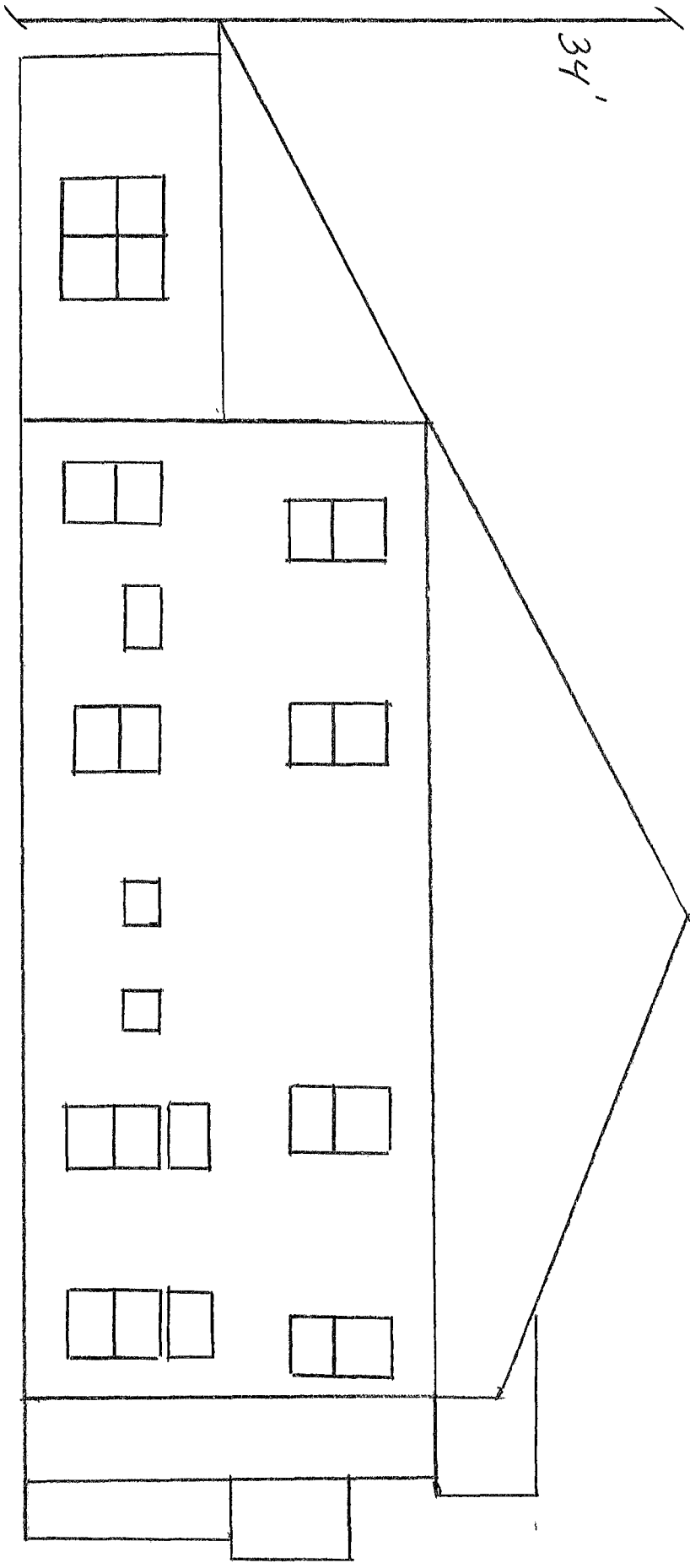
PLUMBING
WATER
SEWER

FRITORY
6 1/2'

USER ROOM
12 x 10'

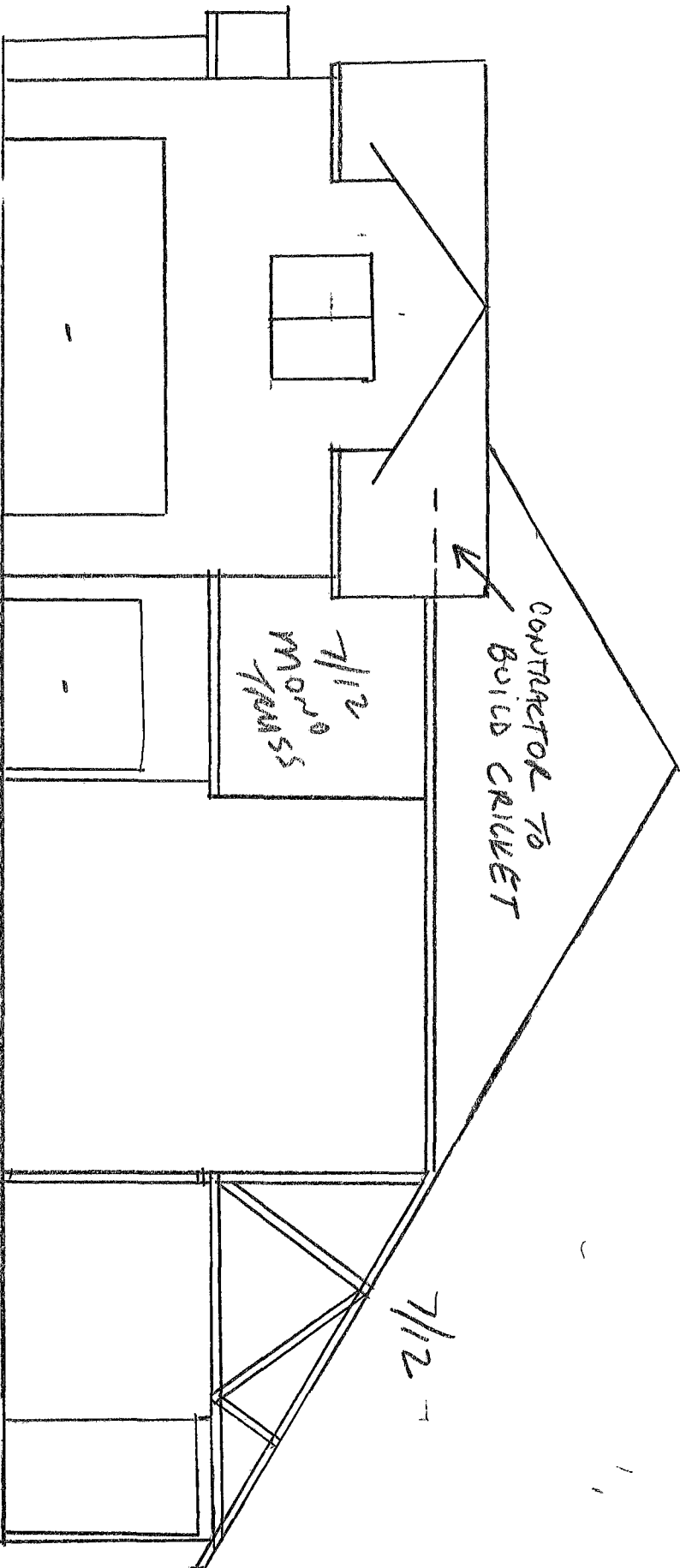
STORAGE 8 FT

Well

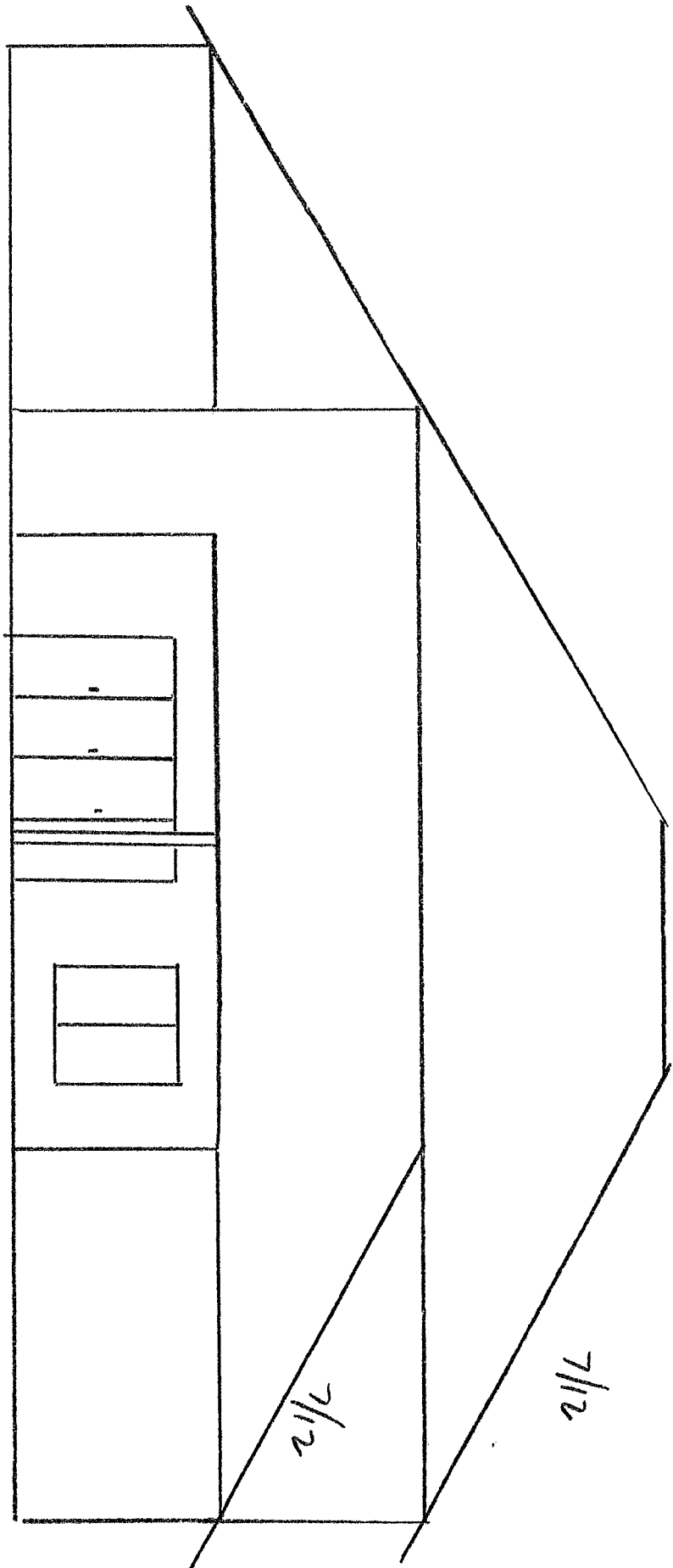


LEFT SIDE ELEVATION

1/8" = 1'

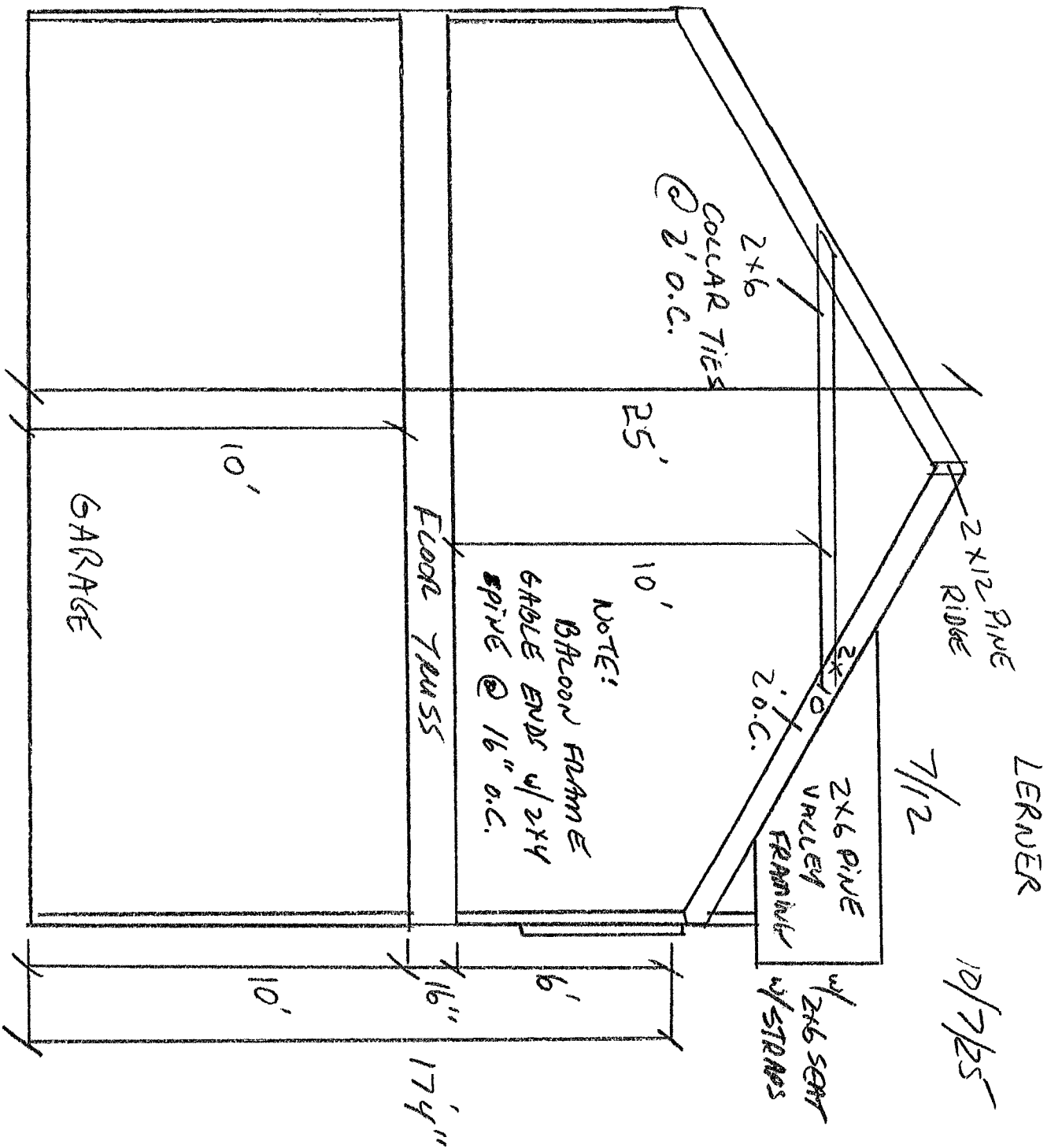


RIGHT SIDE ELEVATION



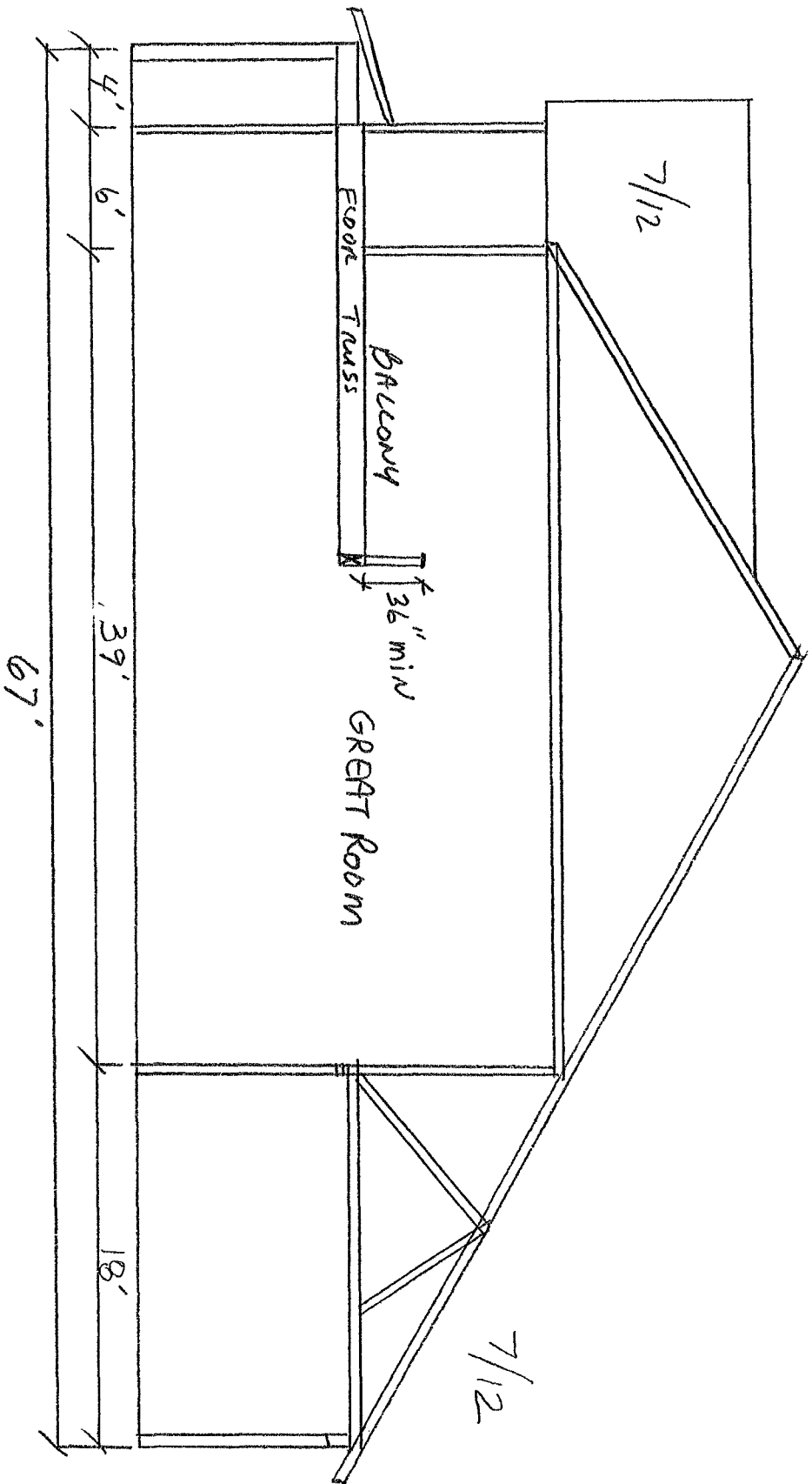
REAR ELEVATION

$1/8" = 1'$



Bonus Room over GARAGE

CROSS SECTION THRU GREAT ROOM

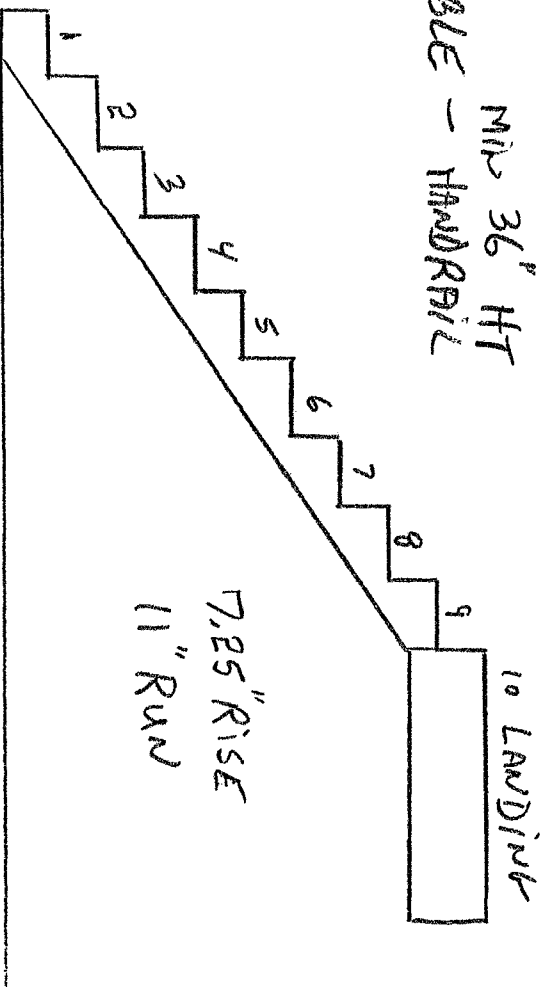


STAIRS

USE 2X12 PINE STRINGER

2 1/2" SPINDLES LESS THAN 4" O.C.

MIN 36" HT
GRASPABLE - HANDRAIL



8 STEPS THAN 11" 2ND FLOOR @ 114"

STAIR WIDTH
44"

7.25" RISE
11" RUN

2421 NW 49 Ave., Gainesville, FL 32605
dayayan85arch@gmail.com

Windload Calculations Summary

A New Residence for Ryan Beville, by Lerner Luxury Properties Parcel #R10039-104 (Hermitage Glen) - High Springs, Florida

CRITERIA:

Code Reference:	2023 Florida Building Code 8th Edition, Res.
Location:	High Springs, Florida
Ultimate Design Wind Speed:	130 MPH
Mean Roof Height:	Less than 30'-0"
Building Risk Category:	II
Building Exposure Factor:	Exposure B
Building Enclosure:	Building Is Enclosed
Internal Pressure Coefficient:	± 0.18
Roof Component & Cladding Design Wind Pressure:	Zone 1: +10.0 psf, -15.0psf
As per 2023 Florida Building Code 8th Edition, Residential, Table R301.2(1)	Zone 2: +10.0 psf, -21.0 psf
	Zone 3: +10.0 psf, -33.0 psf
Wall Component & Cladding Design Wind Pressure:	Zone 4: +15.5 psf, -17.0psf
As per 2023 Florida Building Code 8th Edition, Residential, Table R301.2(1)	Zone 5: +15.5 psf, -19.0 psf

BUILDING DATA:

One Story 2 x 4 Frame Residence:	± 9'-0" Top of Plate & ± 10'-0"
Roof Pitch:	8 / 12 Main (33.69°)
Gable / Hip Roof Overhang:	± 1'-6"
Assumed Soil Bearing Value	1,500 PSF

FOOTINGS:

Perimeter Stem Wall Footing at Walls at Two Story & Porches: 12" Deep x 24" Wide with 3 - #5 continuous and 1 - #5 tie at 48' O.C.. Provide 4" thick concrete slab with Heavy Duty Fibermesh reinforcement on 6 mil vapor barrier over 95% density clean compacted fill.
See Drawings for other footing detail types.
All concrete in footings & slabs shall be 3000 psi. All reinforcement shall be 60 ksi.

ANCHOR BOLTS:

Provide 1/2" A307 anchor bolts with 2" round or square plate washers at 24" O.C. maximum. Place Anchor Bolts at the end of all shearwall segments. Net uplift at corner holdown and shearwall ends is 2,987#, 1 anchor bolt is OK, 3268#. Bottom wood plate shall be P.T. 2 x 6 Southern Pine.
±9'-0" High First Level Walls– use 2 x 4 Spruce-Pine-Fir No. 2 at 1'-4" O.C. at exterior 10'-0" walls exposed to wind.

18' OPENINGS OR LESS @ REAR PORCH:

Provide minimum 3 Ply 1¾" x 11¼" 2/0E Microllam LVL glued and nailed with 10d x 0.128" x 3" nails at 12" O.C. in 2 rows top and bottom Each Face Of Beam. Install 3 – 2 x 6 Header Studs each end of Header and 2 – 2 x 6 Full Height Studs each end. Install 2 – Simpson MSTA24 Strap Tie each end Header to Stud connections. Install 3 – Simpson SPH6 Stud Plate Tie (Center) each side of opening to Header Studs.

18' GARAGE DOOR OPENING:

Provide minimum 2 Ply 1¾" x 11¼" 2/0E Microllam LVL glued and nailed with 10d x 0.128" x 3" nails at 12" O.C. in 2 rows top and bottom Each Face Of Beam. Install 3 – 2 x 4 Header Studs each end of Header and 2 – 2 x 4 Full Height Studs each end. Install 2 – Simpson MSTA24 Strap Tie each end Header to Stud connections. Install 3 – Simpson SPH4 Stud Plate Tie (Center) each side of opening to Header Studs.

14' FRONT PORCH OUTER OPENING:

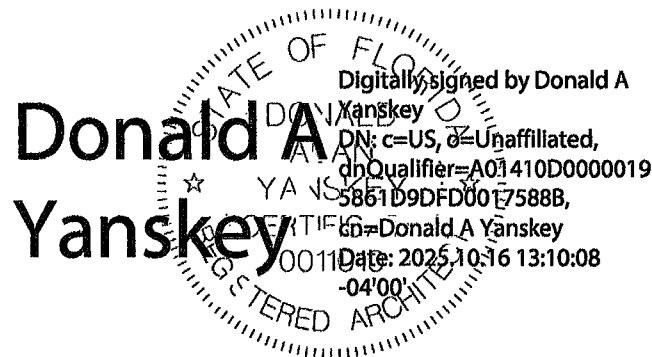
Provide minimum 2 Ply 2 x 12 No. 2 Southern Pine with ½" plywood spacer glued and nailed with 10d x 0.128" x 3" nails at 12" O.C. in 2 rows top and bottom. Install 3 – 2 x 4 Header Studs each end of Header and 2 – 2 x 4 Full Height Studs each end. Install 2 – Simpson MSTA24 Strap Tie each end Header to Stud connections. Install 3 – Simpson SPH4 Stud Plate Tie (Center) each side of opening to Header Studs.

15' REAR PORCH OUTER OPENING:

Provide minimum 2 Ply 1¾" x 11¼" 2/0E Microllam LVL glued and nailed with 10d x 0.128" x 3" nails at 12" O.C. in 2 rows top and bottom Each Face Of Beam. Install 3 – 2 x 4 Header Studs each end of Header and 2 – 2 x 4 Full Height Studs each end. Install 2 – Simpson MSTA24 Strap Tie each end Header to Stud connections. Install 3 – Simpson SPH4 Stud Plate Tie (Center) each side of opening to Header Studs.

ROOF SHEATHING:

Use 7/16" thick OSB sheathing minimum with 8d Ring Shank Nails (0.113" Shank diameter) at 4" O.C. along sheet edges and 8" O.C. in sheet field. No intermediate blocking is required between trusses. Maximum force applied at top of Transverse Shear Walls is 39,858 per 142'-0" = 280.7 # per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field. **OK**



Donald A. Yanskey, Architect
10/16/2025
FL AR 11010
5 of 4

DONALD A. YANSKEY ▼ ARCHITECT

FL Registration FL AR 0011010
352.278.7872

2421 NW 49 Ave., Gainesville, FL 32605
dayayan85arch@gmail.com

January 21, 2021

Mr. Jerry Lerner
Lerner Enterprises
292 Hermitage Glen
High Springs, Florida

RE: Window Installation Procedure Details for Lerner Luxury Properties, LLC.

Dear Mr. Jerry Lerner,

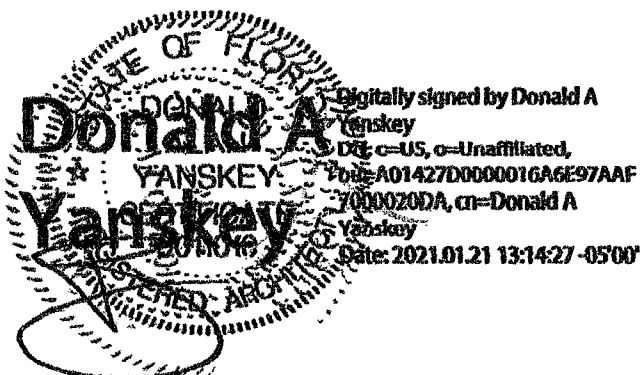
I have reviewed Mr. Lerner's Installation Procedures and acknowledge that they are a sound installation. I do like this set of installation procedures and when I install new windows in my own home, I will utilize this procedure.

I highly recommend that this procedure be adopted as a typical installation procedure for new and retrofit window installations.

See attached Documentation as furnished by Lerner Luxury Properties, LLC.

If you have any questions, please do not hesitate to call. Thank you for the opportunity to provide you with this service.

Thank You,



Donald Alan Yanskey, Architect FL AR 0011010

File: Jerry Lerner -- Window Installation Det - 01.doc

LERNER LUXURY PROPERTIES, LLC

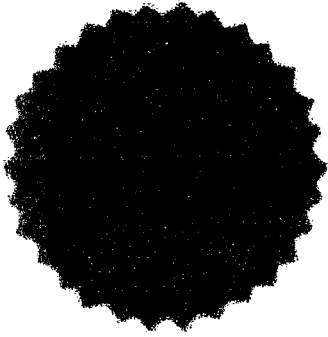
Window specs

The following window installation procedure shall be warranted by Lerner Luxury Properties.

A lifetime guarantee will be provided to the homeowners at

-
- **Hold back OSB sheathing 1 ½" to allow window to be recessed in exterior wall.**
 - **Attach window directly to wood framing with 1 ¼" pan head screws & caulk.**
 - **Install house wrap over the window flange. Cut house wrap back ½" from window so that window tape can bond to window & house wrap.**
 - **Apply window tape to bottom of window first, then sides, than top.**
 - **Use hardiplank exterior trim with installation of Z-flashing on top of trim.**
 - **Caulk all connections of window to hardi trim.**

NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI006554.02-R5
DATE: 01/04/2008
CERTIFICATION PROGRAM: Structural
COMPANY: YKK
CODE: 860-1
REVISION DATE: 08/27/2020

To verify that the "Notice of Product Certification" is valid, please visit www.NAMICertification.com to assure that the product is active and currently listed. This certification represents product conformity to the applicable specification and that certification criteria has been satisfied. A NAMI approved certification label must be applied to the product to claim certification status. Please review and advise NAMI if any corrections are required to this document.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
YKK AP America, Inc. 4234 Ocmulgee E. Blvd. Macon, GA 31217	YKK AP America StyleView™ Vinyl Fixed Window Configuration: O Glazing: Insulating Glass (Tempered) Frame: W-1829mm (72") H-2426mm (96")

SPECIFICATION	PRODUCT RATING
ASTM E283-04(12)/E330-02/ F588-04/E547-00 AAMA/WDMA/CSA 101/LS.2.A440-17	Design Pressure: ±2400 Pa (50 psf) Class R-PG35 1829 x 2426 (72 x 96)-FW

Product Tested By: Hurricane Test Laboratory, LLC
Report No: 0231-0703-05/G231-1102-07/W-1954
Expiration Date: November 30, 2023

Administrator's Signature: _____

NATIONAL ACCREDITATION AND MANAGEMENT INSTITUTE, INC.

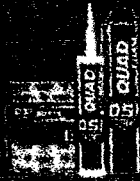
4794 George Washington Memorial Highway
Hayes, VA 23072
Tel: (804) 684-5124
Fax: (804) 684-5122

OSI CERTIFIED
INSTALLER
PROGRAM

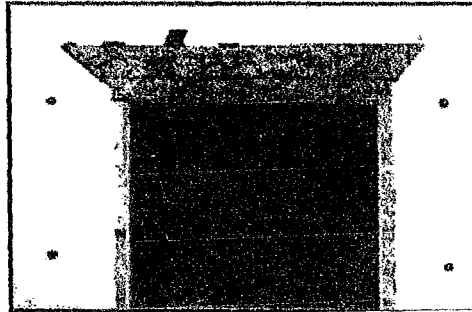
A1 Method

Quick Reference Guide

For the use of the Quad Window & Door System



- 1** Cut 45-degree angle at the head and side jamb joints on each side and temporarily fasten the top flap with a piece of tape. Cut the WRB a minimum of 1 to 1-1/4" away from the rough opening sides to expose the sheathing.





Project Summary
Entire House
Bounds Heating and Air

Job:
Date: Oct 20, 2026
By:

Email: jlegier@boundshvac.com

Project Information

For Spec House, Lerner

Notes

Design Information

Weather Gainesville Regional, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 68 °F
 Design TD 35 °F

Ventilation Method

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 44 gr/lb

Heating Summary

Structure 51784 Btuh
 Ducts (R-6 0) 18184 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 69968 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft ²)	4912	4912
Volume (ft ³)	63305	63305
Air changes/hour	0.28	0.15
Equiv AVF (cfm)	295	158

Heating Equipment Summary

Make n/a
 Trade n/a
 Model n/a
 AHRI ref n/a
 Efficiency n/a
 Heating input
 Heating output 0 Btuh
 Temperature rise 0 °F
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat n/a

Sensible Cooling Equipment Load Sizing

Structure 35507 Btuh
 Ducts (R-6 0) 21984 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.97
 Equipment sensible load 55881 Btuh

Latent Cooling Equipment Load Sizing

Structure 5693 Btuh
 Ducts 4478 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 10171 Btuh
Equipment Total Load (Sen+Lat) 66052 Btuh
 Req total capacity at 0.70 SHR 6.7 ton

Cooling Equipment Summary

Make n/a
 Trade n/a
 Cond n/a
 Coil n/a
 AHRI ref n/a
 Efficiency n/a
 Sensible cooling 0 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed



Project Summary
(Rest of House)
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Notes

Design Information

Weather Gainesville Regional, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 68 °F
 Design TD 35 °F

Ventilation Method MJ8

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 44 gr/lb

Heating Summary

Structure 36409 Btuh
 Ducts (R-6 0) 11017 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 47426 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft²)	2812	2812
Volume (ft³)	44504	44504
Air changes/hour	0.27	0.14
Equiv AVF (cfm)	200	107

Sensible Cooling Equipment Load Sizing

Structure 20055 Btuh
 Ducts (R-6 0) 13640 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.97
 Equipment sensible load 32751 Btuh

Latent Cooling Equipment Load Sizing

Structure 3784 Btuh
 Ducts 2702 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 6486 Btuh
Equipment Total Load (Sen+Lat) 39237 Btuh
 Req total capacity at 0.70 SHR 3.9 ton

Heating Equipment Summary

Make Carrier
 Trade 15 SEER2 HP
 Model GH5SAN54800AA0
 AHRI ref 214101900

Efficiency 7.5 HSPF2
 Heating input
 Heating output 47500 Btuh @ 47°F
 Temperature rise 28 °F
 Actual air flow 1567 cfm
 Air flow factor 0.033 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 34 °F

Backup n/a n/a
 Input = 0 kW, Output = 0 Btuh, 100 AFUE

Cooling Equipment Summary

Make Carrier
 Trade 15 SEER2 HP
 Cond GH5SAN54800AA0
 Coil FJ5ANXC48L00
 AHRI ref 214101900
 Efficiency 12.0 EER2, 15 SEER2
 Sensible cooling 32900 Btuh
 Latent cooling 14100 Btuh
 Total cooling 47000 Btuh
 Actual air flow 1567 cfm
 Air flow factor 0.047 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.84

Bold/italic values have been manually overridden

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



wrightsoft

Right-Suite® Universal 2025 25 0 01 RSU57217

plans & J&D (2025)\Lerner\Spec house\Lerner.rup Calc = MJ8 Front Door faces E

2025-Oct-21 15:07:48

Page 2



Project Summary
upstairs ah
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Notes

Design Information

Weather Gainesville Regional, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 68 °F
 Design TD 35 °F

Ventilation Method MJ8

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 44 gr/lb

Heating Summary

Structure 15375 Btuh
 Ducts (R-6 0) 7167 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 22542 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft ²)	2100	2100
Volume (ft ³)	18801	18801
Air changes/hour	0.30	0.16
Equiv AVF (cfm)	95	51

Heating Equipment Summary

Make Carrier
 Trade 15 SEER2 HP
 Model GH5SAN53600AA0
 AHRI ref 214101828
 Efficiency 7.5 HSPF2
 Heating input
 Heating output 35600 Btuh @ 47°F
 Temperature rise 28 °F
 Actual air flow 1167 cfm
 Air flow factor 0.052 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 23 °F
 Backup
 Input = 0 kW, Output = 0 Btuh, 100 AFUE

Sensible Cooling Equipment Load Sizing

Structure 16386 Btuh
 Ducts (R-6 0) 8922 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.97
 Equipment sensible load 24600 Btuh

Latent Cooling Equipment Load Sizing

Structure 1909 Btuh
 Ducts 1776 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 3685 Btuh
Equipment Total Load (Sen+Lat) 28284 Btuh
 Req total capacity at 0.70 SHR 2.9 ton

Cooling Equipment Summary

Make Carrier
 Trade 15 SEER2 HP
 Cond GH5SAN53600AA0
 Coil FJ5ANXB36L00
 AHRI ref 214101828
 Efficiency 12.0 EER2, 14.5 SEER2
 Sensible cooling 24500 Btuh
 Latent cooling 10500 Btuh
 Total cooling 35000 Btuh
 Actual air flow 1167 cfm
 Air flow factor 0.046 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.87

Bold/italic values have been manually overridden

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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plans & J&D (2025)\Lerner\Spec house\Lerner rup Calc = MJ8 Front Door faces. E

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Load Short Form
Entire House
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Design Information

	Htg	Cig	Method	Infiltration	Simplified
Outside db (°F)	33	92			Average
Inside db (°F)	68	75	Construction quality		0
Design TD (°F)	35	17	Fireplaces		
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	29	44			

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Cig load (Btuh)	Htg AVF (cfm)	Cig AVF (cfm)
upstairs ah	2089	22542	25308	1167	1167
(Rest of House)	2819	47426	33695	1567	1567
Entire House	4908	69968	57491	2734	2734
Other equip loads		0	0		
Equip @ 0.97 RSM			55881		
Latent cooling			10171		
TOTALS	4908	69968	66052	2734	2734

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed



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Load Short Form
(Rest of House)
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Design Information

	Htg	Clg	Method	Infiltration	Simplified Average
Outside db (°F)	33	92			
Inside db (°F)	68	75	Construction quality		
Design TD (°F)	35	17	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	29	44			

HEATING EQUIPMENT

Make Carrier
 Trade 15 SEER2 HP
 Model GH5SAN54800AA0
 AHRI ref 214101900

Efficiency 7.5 HSPF2
 Heating input
 Heating output 47500 Btuh @ 47°F
 Temperature rise 28 °F
 Actual air flow 1567 cfm
 Air flow factor 0.033 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 34 °F

Backup n/a n/a
 Input = 0 kW, Output = 0 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Carrier
 Trade 15 SEER2 HP
 Cond GH5SAN54800AA0
 Coil FJ5ANXC48L00
 AHRI ref 214101900

Efficiency 12.0 EER2, 15 SEER2
 Sensible cooling 32900 Btuh
 Latent cooling 14100 Btuh
 Total cooling 47000 Btuh
 Actual air flow 1567 cfm
 Air flow factor 0.047 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.84

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
foyer/flex	548	6734	2724	223	127
master suite	293	5998	4163	198	194
his	63	0	0	0	0
hers	80	1528	642	50	30
hall 1	77	0	0	0	0
master bath	227	1852	745	61	35
wc	36	0	0	0	0
living/kitchen	915	16198	18122	535	843
mother in law	276	4978	2809	164	131
bath 2	93	1494	615	49	29
wic	38	1524	565	50	26
pantry	72	3683	1339	122	62
laundry	100	3437	1970	114	92

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(Rest of House)	2819	47426	33695	1567	1567
Other equip loads		0	0		
Equip @ 0.97 RSM			32751		
Latent cooling			6486		
TOTALS	2819	47426	39237	1567	1567

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Load Short Form
upstairs ah
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email: jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	44		

HEATING EQUIPMENT

Make Carrier
 Trade 15 SEER2 HP
 Model GH5SAN53600AA0
 AHRI ref 214101828

Efficiency 7.5 HSPF2
 Heating input
 Heating output 35600 Btuh @ 47°F
 Temperature rise 28 °F
 Actual air flow 1167 cfm
 Air flow factor 0.052 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 23 °F

COOLING EQUIPMENT

Make Carrier
 Trade 15 SEER2 HP
 Cond GH5SAN53600AA0
 Coil FJ5ANXB36L00
 AHRI ref 214101828

Efficiency 12.0 EER2, 14.5 SEER2
 Sensible cooling 24500 Btuh
 Latent cooling 10500 Btuh
 Total cooling 35000 Btuh
 Actual air flow 1167 cfm
 Air flow factor 0.046 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.87

Backup
 Input = 0 kW, Output = 0 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
storage	574	7742	6905	401	318
bedroom 4	294	2506	4794	130	221
bath 4	78	930	961	48	44
bath 3	74	816	935	42	43
hall 2	78	0	0	0	0
media room	390	4423	3922	229	181
ah	33	0	0	0	0
wic 3	56	824	576	43	27
bedroom 3	265	4506	6053	233	279
balcony	247	796	1163	41	54

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed



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upstairs ah	2089	22542	25308	1167	1167
Other equip loads		0	0		
Equip @ 0.97 RSM			24600		
Latent cooling			3685		
TOTALS	2089	22542	28284	1167	1167

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plans & J&D (2025)\Lerner\Spec house\Lerner rup Calc = MJ8 Front Door faces E

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Manual S Compliance Report
(Rest of House)
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Cooling Equipment

Design Conditions

Outdoor design DB	92 2°F	Sensible gain	33695	Btuh	Entering coil DB	77 6°F
Outdoor design WB	75 8°F	Latent gain	6486	Btuh	Entering coil WB	63 7°F
Indoor design DB	75 0°F	Total gain	40180	Btuh		
Indoor RH	50%	Estimated airflow	1567	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type	Split ASHP		
Manufacturer	Carrier	Model	GH5SAN54800AA0+FJ5ANXC48L00
Actual airflow	1567	cfm	
Sensible capacity	37152	Btuh	110% of load
Latent capacity	7990	Btuh	123% of load
Total capacity	45142	Btuh	112% of load SHR 82%

Heating Equipment

Design Conditions

Outdoor design DB	33 2°F	Heat loss	47426	Btuh	Entering coil DB	66 8°F
Indoor design DB	68 0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type	Split ASHP		
Manufacturer	Carrier	Model	GH5SAN54800AA0+FJ5ANXC48L00
Actual airflow	1567	cfm	
Output capacity	38943	Btuh	82% of load
Supplemental heat required	8483	Btuh	
			Capacity balance 34 °F
			Economic balance -99 °F

Backup equipment type	Elec strip		
Manufacturer	n/a	Model	n/a+n/a
Actual airflow	1567	cfm	
Output capacity	0	kW	0% of load Temp rise 0 °F

Meets all requirements of ACCA Manual S



Manual S Compliance Report
upstairs ah
Bounds Heating and Air

Job:
 Date: Oct 20, 2025
 By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

Cooling Equipment

Design Conditions

Outdoor design DB.	92 2°F	Sensible gain	25308	Btuh	Entering coil DB	77 3°F
Outdoor design WB	75 8°F	Latent gain	3685	Btuh	Entering coil WB	63 6°F
Indoor design DB	75.0°F	Total gain	28993	Btuh		
Indoor RH	50%	Estimated airflow:	1167	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type	Split ASHP			
Manufacturer	Carrier	Model	GH5SAN53600AA0+FJ5ANXB36L00	
Actual airflow	1167	cfm		
Sensible capacity	28189	Btuh	111%	of load
Latent capacity	5302	Btuh	144%	of load
Total capacity	33491	Btuh	116%	of load SHR 84%

Heating Equipment

Design Conditions

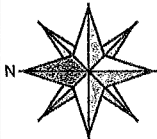
Outdoor design DB	33 2°F	Heat loss	22542	Btuh	Entering coil DB	67 0°F
Indoor design DB	68 0°F					

Manufacturer's Performance Data at Actual Design Conditions

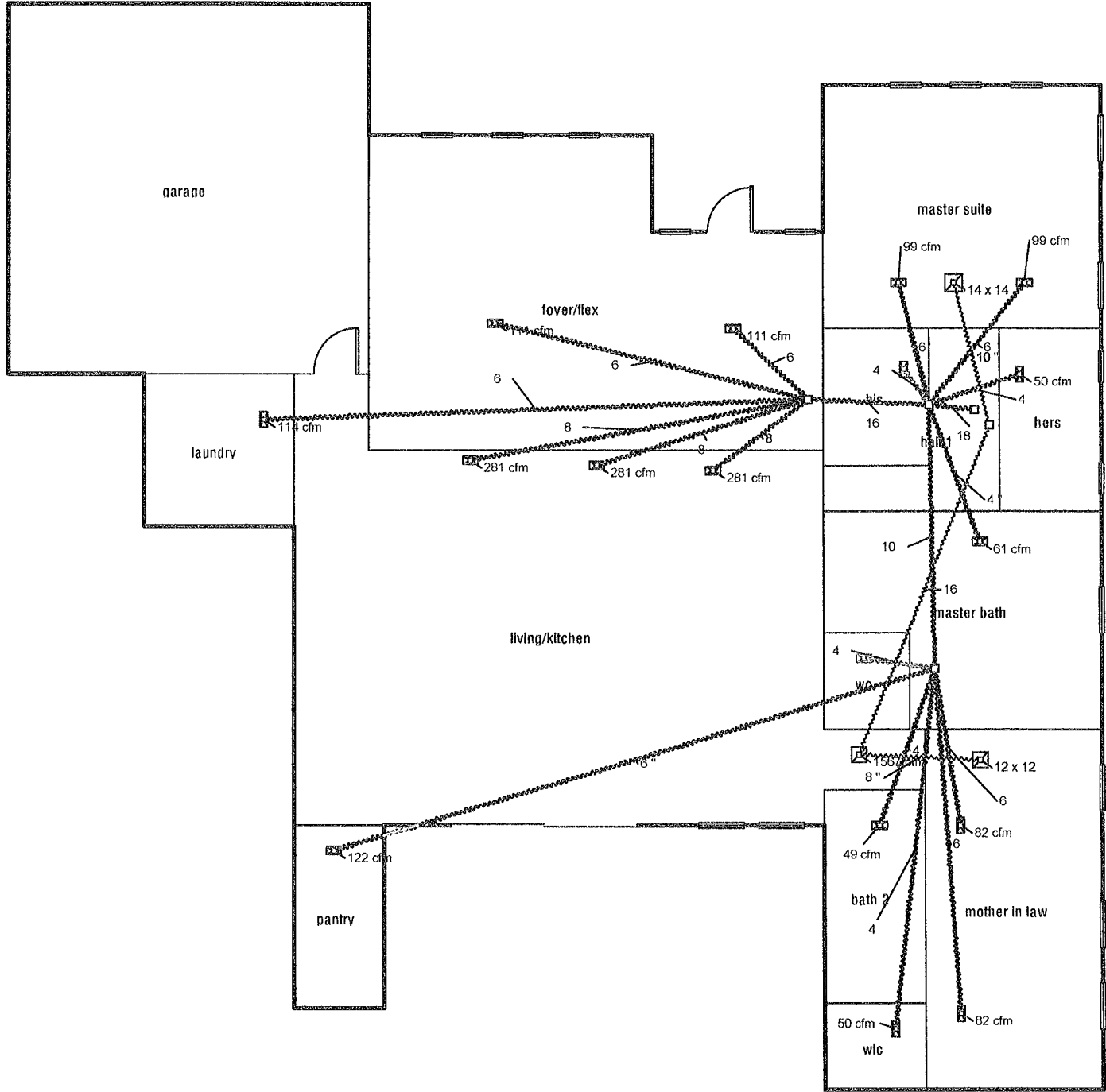
Equipment type	Split ASHP			
Manufacturer	Carrier	Model	GH5SAN53600AA0+FJ5ANXB36L00	
Actual airflow	1167	cfm		
Output capacity	35600	Btuh	158%	of load
Supplemental heat required	0	Btuh		
			Capacity balance	23 °F
			Economic balance	-99 °F

Backup equipment type	Elec strip			
Manufacturer		Model		
Actual airflow	1167	cfm		
Output capacity	0	kW	0%	of load Temp rise 0 °F

Meets all requirements of ACCA Manual S



Level 1

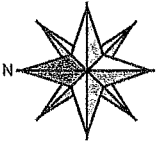


Job #:
Performed for:
Spec House

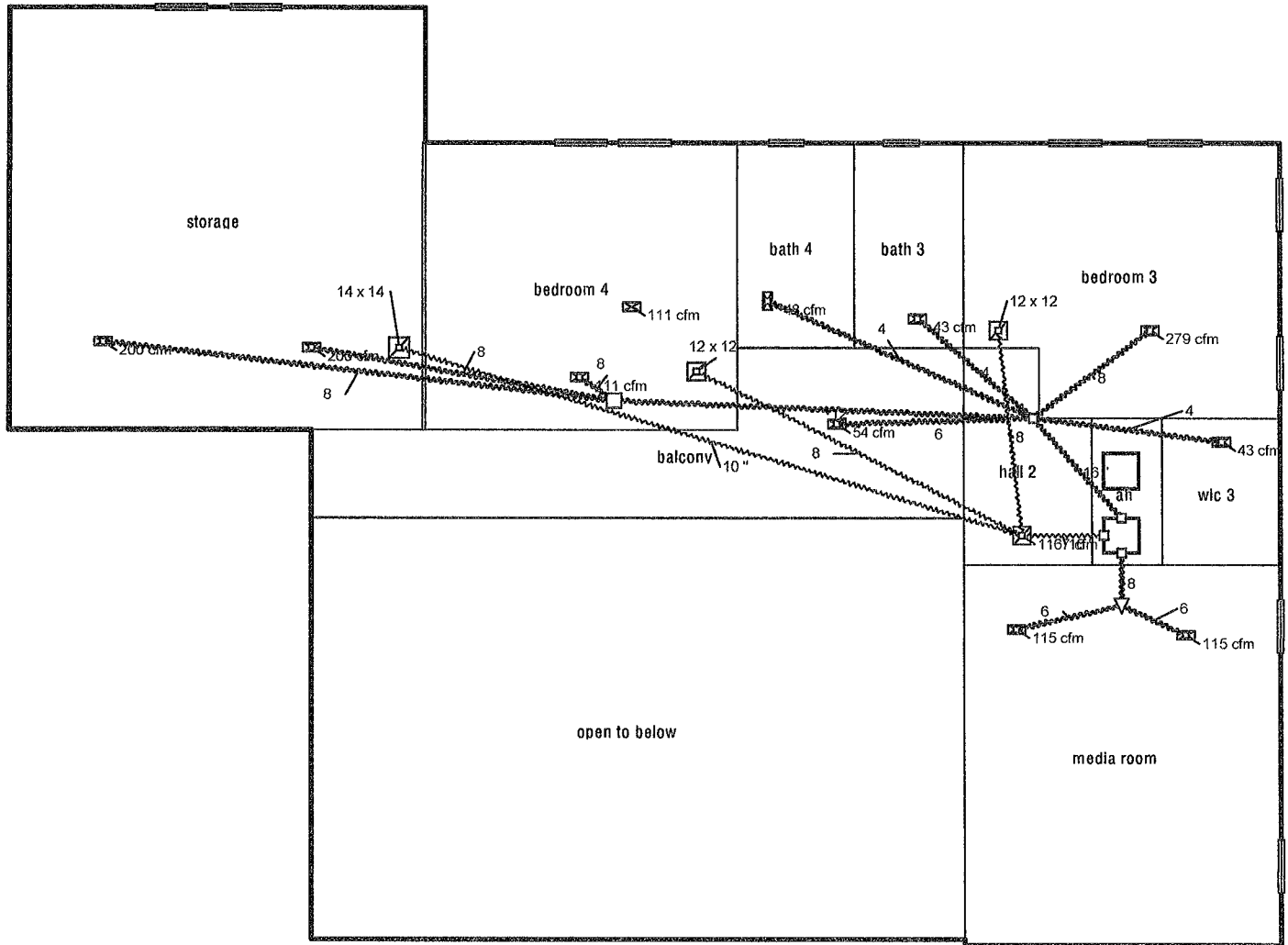
Bounds Heating and Air

jlegler@boundshvac.com

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upstairs



Job #:
Performed for:
Spec House

Bounds Heating and Air

jiegler@boundshvac.com

Scale: 1 : 121

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Duct System Summary

(Rest of House)

Bounds Heating and Air

Job:
Date: Oct 20, 2026
By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.50 in H2O	0.50 in H2O
Supply / return available pressure	0.343 / 0.157 in H2O	0.343 / 0.157 in H2O
Lowest friction rate	0.200 in/100ft	0.200 in/100ft
Actual air flow	1567 cfm	1567 cfm
Total effective length (TEL)		250 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
bath 2	h 1494	49	29	0.243	4.0	0x0	VIFx	31.3	110.0	st5
foyer/flex	h 3367	111	63	0.269	6.0	0x0	VIFx	17.9	110.0	st6
foyer/flex-A	h 3367	111	63	0.241	6.0	0x0	VIFx	32.3	110.0	st6
hers	h 1528	50	30	0.346	4.0	0x0	VIFx	9.3	90.0	st3
his	c 0	0	0	0.358	4.0	0x0	VIFx	5.9	90.0	st3
laundry	h 3437	114	92	0.219	6.0	0x0	VIFx	47.1	110.0	st6
living/kitchen-A	c 6041	178	281	0.253	8.0	0x0	VIFx	25.7	110.0	st6
living/kitchen-C	c 6041	178	281	0.239	8.0	0x0	VIFx	33.7	110.0	st6
living/kitchen-D	c 6041	178	281	0.266	8.0	0x0	VIFx	18.9	110.0	st6
master bath	h 1852	61	35	0.335	4.0	0x0	VIFx	12.6	90.0	st3
master suite	h 2999	99	97	0.339	6.0	0x0	VIFx	11.3	90.0	st3
master suite-A	h 2999	99	97	0.333	6.0	0x0	VIFx	13.2	90.0	st3
mother in law	h 2489	82	65	0.244	6.0	0x0	VIFx	30.8	110.0	st5
mother in law-A	h 2489	82	65	0.224	6.0	0x0	VIFx	43.1	110.0	st5
pantry	h 3683	122	62	0.200	6.0	0x0	VIFx	61.8	110.0	st5
wc	c 0	0	0	0.254	4.0	0x0	VIFx	25.1	110.0	st5
wic	h 1524	50	26	0.223	4.0	0x0	VIFx	44.2	110.0	st5

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st5	Peak AVF	386	248	0.200	707	10.0	0 x 0	VinIFlx	st3
st3	Peak AVF	1567	1567	0.200	887	18.0	0 x 0	VinIFlx	st3
st6	Peak AVF	871	1061	0.219	760	16.0	0 x 0	VinIFlx	st3

Bold/Italic values have been manually overridden

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Cig (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	1567	1567	78.3	0 200	594	22 0	0x 0		VIFx	rst7

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Cig (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst7	Peak AVF	1567	1567	0 200	1122	<i>16.0</i>	<i>0 x 0</i>	VinIFix	

Bold/italic values have been manually overridden





Duct System Summary

upstairs ah
Bounds Heating and Air

Job:
Date: Oct 20, 2025
By:

Email jlegler@boundshvac.com

Project Information

For Spec House, Lerner

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Supply / return available pressure	0.416 / 0.084 in H ₂ O	0.416 / 0.084 in H ₂ O
Lowest friction rate	0.243 in/100ft	0.243 in/100ft
Actual air flow	1167 cfm	1167 cfm
Total effective length (TEL)		206 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg Eqv Ln (ft)	Trunk
balcony	c 1163	41	54	0.382	6.0	0x0	VIFx	18.9	90.0	st1
bath 3	c 935	42	43	0.391	4.0	0x0	VIFx	16.3	90.0	st1
bath 4	h 930	48	44	0.364	4.0	0x0	VIFx	24.3	90.0	st1
bedroom 3-A	c 6053	233	279	0.393	8.0	0x0	VIFx	15.9	90.0	st1
bedroom 4	c 2397	65	111	0.289	8.0	0x0	VIFx	34.0	110.0	st4
bedroom 4-A	c 2397	65	111	0	0	0x0	VIFx	0	0	
media room	h 2212	115	90	0.419	6.0	0x0	VIFx	9.1	90.0	st2
media room-A	h 2212	115	90	0.428	6.0	0x0	VIFx	7.0	90.0	st2
storage	h 3871	200	159	0.261	8.0	0x0	VIFx	49.2	110.0	st4
storage-A	h 3871	200	159	0.243	8.0	0x0	VIFx	61.1	110.0	st4
wic 3	h 824	43	27	0.384	4.0	0x0	VIFx	18.3	90.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st2	Peak AVF	229	181	0.419	656	8.0	0 x 0	VinFlx	
st4	Peak AVF	466	429	0.243	593	12.0	0 x 0	VinFlx	st1
st1	Peak AVF	873	876	0.243	627	16.0	0 x 0	VinFlx	

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb3	0x0	1167	1167	34.7	0.243	535	20.0	0x0		VIFx	rst8

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst8	Peak AVF	1167	1167	0.243	836	<i>16.0</i>	<i>0 x 0</i>	ViniFix	

Bold/italic values have been manually overridden

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

*Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method*

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include:

- This Checklist*
- Form R405-2023 report*
- Input summary checklist that can be used for field verification (usually four pages/may be greater)*
- Energy Performance Level (EPL) Display Card (one page)*
- HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- Mandatory Requirements (five pages)*

Required prior to CO:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- A completed 2023 Envelope Leakage Test Report (usually one page), exception in R402.4 allows dwelling units of R - 2 Occupancies and multiple attached single family dwellings to comply with Section C402.5*
- If FORM R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)*

Building Input Summary Report

PROJECT					
Title:	Spec house	Bedrooms:	4	Address type:	Street address
Building Type	FLAsBuilt	Bathrooms	4	Lot#	
Owner:	Spec House	Conditioned Area	4912	Block/Subdivision	
# of Units	1	Total Stories	1	Platbook	
Builder Name	Jerry Lerner	Worst Case	No	Street	TBD
Permit Office		Rotate Angle	0	County	
Jurisdiction:		Cross Ventilation	No	City, State, Zip	High Springs, FL 32643
Family Type:	Single-Family	Whole House Fan	No		
New/Existing	New (From Plans)	Terrain	Rural		
Year Construct	2025	Shielding	Suburban		
Comment					

CLIMATE										
✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
	FL, Gainesville Regional	FL_Gainesville_Rgn	2	33	92	68	75	1148	44	Medium

BLOCKS			
#	Name	Area	Volume
1	House	2812 00 ft ²	44503 55 ft ³
2	upstairs ah	2100 00 ft ²	18801 00 ft ³

SPACES											
#		Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
1	foyer/flex	548 22 ft ²	5482 22 ft ³	No	0	0	1	Yes	Yes	Yes	
2	master suite	293 33 ft ²	2933 33 ft ³	No	2	1	1	Yes	Yes	Yes	
3	his	63 00 ft ²	630 00 ft ³	No	0	0	1	Yes	Yes	Yes	
4	hers	80 00 ft ²	800 00 ft ³	No	0	0	1	Yes	Yes	Yes	
5	hall 1	77 00 ft ²	770 00 ft ³	No	0	0	1	Yes	Yes	Yes	
6	master bath	226 89 ft ²	2268 89 ft ³	No	0	0	1	Yes	Yes	Yes	
7	wc	35 89 ft ²	358 89 ft ³	No	0	0	1	Yes	Yes	Yes	
8	living/kitchen	915 00 ft ²	25468 00 ft ³	No	0	0	1	Yes	Yes	Yes	
9	mother in law	276 11 ft ²	2761 11 ft ³	No	1	1	1	Yes	Yes	Yes	
10	bath 2	93 33 ft ²	933 33 ft ³	No	0	0	1	Yes	Yes	Yes	
11	wic	37 78 ft ²	377 78 ft ³	No	0	0	1	Yes	Yes	Yes	
12	pantry	72 00 ft ²	720 00 ft ³	No	0	0	1	Yes	Yes	Yes	
13	laundry	100 00 ft ²	1000 00 ft ³	No	0	0	1	Yes	Yes	Yes	
14	bedroom 3	264 67 ft ²	2382 00 ft ³	No	1	1	1	Yes	Yes	Yes	
15	wic 3	55 56 ft ²	500 00 ft ³	No	0	0	1	Yes	Yes	Yes	
16	ah	33 33 ft ²	300 00 ft ³	No	0	0	1	Yes	Yes	Yes	
17	media room	390 00 ft ²	3510 00 ft ³	No	0	0	1	Yes	Yes	Yes	
18	hall 2	78 44 ft ²	706 00 ft ³	No	0	0	1	Yes	Yes	Yes	
19	bath 3	73 89 ft ²	665 00 ft ³	No	0	0	1	Yes	Yes	Yes	
20	bath 4	77 78 ft ²	700 00 ft ³	No	0	0	1	Yes	Yes	Yes	
21	bedroom 4	294 00 ft ²	2646 00 ft ³	No	1	1	1	Yes	Yes	Yes	
22	storage	574 00 ft ²	5168 00 ft ³	No	0	0	1	Yes	Yes	Yes	
23	balcony	247 33 ft ²	2226 00 ft ³	No	0	0	1	Yes	Yes	Yes	

FLOORS												(Total Exposed Area = 3548 sq.ft.)			
✓ #	Floor Type			Space	Perimeter	R-Value	Area	U-Factor	Tile	Wood	Carpet				
1	Bg floor,	heavy dry or light damp soil,	on grade	foyer/flex	52 ft	0	548 22 ft ²	1 180	0	1 0	0				
2	Bg floor,	heavy dry or light damp soil,	on grade	master suite	44 ft	0	293 33 ft ²	1 180	0	1 0	0				
3	Bg floor,	heavy dry or light damp soil,	on grade	his	0 ft	0	63 00 ft ²	1 180	0	1 0	0				
4	Bg floor,	heavy dry or light damp soil,	on grade	hers	12 ft	0	80 00 ft ²	1 180	0	1 0	0				
5	Bg floor,	heavy dry or light damp soil,	on grade	hall 1	0 ft	0	77 00 ft ²	1 180	0	1 0	0				
6	Bg floor,	heavy dry or light damp soil,	on grade	master bath	14 ft	0	226 89 ft ²	1 180	0	1 0	0				
7	Bg floor,	heavy dry or light damp soil,	on grade	wc	0 ft	0	35 89 ft ²	1 180	0	1 0	0				
8	Bg floor,	heavy dry or light damp soil,	on grade	living/kitchen	54 ft	0	921 33 ft ²	1 180	0	1 0	0				
9	Bg floor,	heavy dry or light damp soil,	on grade	mother in law	35 ft	0	276 11 ft ²	1 180	0	1 0	0				
10	Bg floor,	heavy dry or light damp soil,	on grade	bath 2	12 ft	0	93 33 ft ²	1 180	0	1 0	0				
11	Bg floor,	heavy dry or light damp soil,	on grade	wic	12 ft	0	37 78 ft ²	1 180	0	1 0	0				
12	Bg floor,	heavy dry or light damp soil,	on grade	pantry	30 ft	0	72 00 ft ²	1 180	0	1 0	0				
13	Bg floor,	heavy dry or light damp soil,	on grade	laundry	30 ft	0	100 00 ft ²	1 180	0	1 0	0				
14	Bg floor,	heavy dry or light damp soil,	on grade	bedroom 3	3 ft	0	26 11 ft ²	1 180	0	1 0	0				
15	Bg floor,	heavy dry or light damp soil,	on grade	wic 3	2 ft	0	13 89 ft ²	1 180	0	1 0	0				
16	Bg floor,	heavy dry or light damp soil,	on grade	media room	4 ft	0	36 11 ft ²	1 180	0	1 0	0				
17	Bg floor,	heavy dry or light damp soil,	on grade	bath 3	3 ft	0	30 33 ft ²	1 180	0	1 0	0				
18	Bg floor,	heavy dry or light damp soil,	on grade	bath 4	4 ft	0	46 67 ft ²	1 180	0	1 0	0				
19	Bg floor,	heavy dry or light damp soil,	on grade	bedroom 4	1 ft	0	14 11 ft ²	1 180	0	1 0	0				
20	Part floor,	r-19 ins. frm flr, 12" thkns	on grade	storage	69 ft	19	546 00 ft ²	0 049	0	1 0	0				
21	Bg floor,	heavy dry or light damp soil,	on grade	storage	1 ft	0	9 72 ft ²	1 180	0	1 0	0				

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
1	Hip	RoofAsph	1629 ft²		Dark	Y	0.75	No	0.90	No	0	27
2	Gable or shed	RoofAsph	2263 ft²	435 ft²	Dark	Y	0.75	No	0.90	No	0	23

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Full attic	Vented	300	1457.11 ft²	N	N
2	Full attic	Vented	300	2089.00 ft²	N	N

CEILING

(Total Exposed Area = 3550 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	U-Factor	Area	Framing Fraction	Truss Type
1	Attic ceiling, asphalt shingles roof	master suite	38	0.026	48.89 ft²	0.10	--
2	Attic ceiling, asphalt shingles roof	living/kitchen	38	0.026	919.33 ft²	0.10	--
3	Attic ceiling, asphalt shingles roof	mother in law	38	0.026	206.11 ft²	0.10	--
4	Attic ceiling, asphalt shingles roof	bath 2	38	0.026	80.67 ft²	0.10	--
5	Attic ceiling, asphalt shingles roof	wic	38	0.026	37.78 ft²	0.10	--
6	Attic ceiling, asphalt shingles roof	pantry	38	0.026	72.00 ft²	0.10	--
7	Attic ceiling, asphalt shingles roof	laundry	38	0.026	96.67 ft²	0.10	--
8	Attic ceiling, asphalt shingles roof	bedroom 3	38	0.026	264.67 ft²	0.10	--
9	Attic ceiling, asphalt shingles roof	wic 3	38	0.026	55.56 ft²	0.10	--
10	Attic ceiling, asphalt shingles roof	ah	38	0.026	33.33 ft²	0.10	--
11	Attic ceiling, asphalt shingles roof	media room	38	0.026	390.00 ft²	0.10	--
12	Attic ceiling, asphalt shingles roof	hall 2	38	0.026	78.44 ft²	0.10	--
13	Attic ceiling, asphalt shingles roof	bath 3	38	0.026	73.89 ft²	0.10	--
14	Attic ceiling, asphalt shingles roof	bath 4	38	0.026	77.78 ft²	0.10	--
15	Attic ceiling, asphalt shingles roof	bedroom 4	38	0.026	294.00 ft²	0.10	--
16	Attic ceiling, asphalt shingles roof	storage	38	0.026	574.00 ft²	0.10	--
17	Attic ceiling, asphalt shingles roof	balcony	38	0.026	247.33 ft²	0.10	--

WALLS

(Total Exposed Area = 5698 sq.ft.)

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Height Ft	In	Area	Sheathing R-Value	U-Factor	Frm Frac	Solar Absor	Below Grade%	
1	EM	Exterior	Frm wall, stucco	foyer/flex	15	30	0	10	0	300.0	0	0.086	0.25	0.75	0
2		Exterior	Frm wall, stucco	foyer/flex	15	6	4	10	0	63.3	0	0.086	0.25	0.75	0
3		Partition	Frm wall, 1/2" gy	foyer/flex	15	15	8	10	0	156.7	0	0.086	0.25	0.75	0
4		Exterior	Frm wall, stucco	master suite	15	9	8	10	0	96.7	0	0.086	0.25	0.75	0
5		Exterior	Frm wall, stucco	master suite	15	18	4	10	0	183.3	0	0.086	0.25	0.75	0
6		Exterior	Frm wall, stucco	master suite	15	16	0	10	0	160.0	0	0.086	0.25	0.75	0
7		Exterior	Frm wall, stucco	hers	15	12	0	10	0	120.0	0	0.086	0.25	0.75	0
8		Exterior	Frm wall, stucco	master bath	15	14	4	10	0	143.3	0	0.086	0.25	0.75	0
9		Exterior	Frm wall, stucco	living/kitchen	15	21	0	27	10	585.3	0	0.086	0.25	0.75	0
10		Exterior	Frm wall, stucco	living/kitchen	15	31	7	27	10	878.7	0	0.086	0.25	0.75	0
11		Partition	Frm wall, 1/2" gy	living/kitchen	15	3	7	27	10	100.0	0	0.086	0.25	0.75	0
12		Exterior	Frm wall, stucco	mother in law	15	23	8	10	0	236.7	0	0.086	0.25	0.75	0
13		Exterior	Frm wall, stucco	mother in law	15	11	8	10	0	116.7	0	0.086	0.25	0.75	0
14		Exterior	Frm wall, stucco	bath 2	15	11	8	10	0	116.7	0	0.086	0.25	0.75	0
15		Exterior	Frm wall, stucco	wic	15	5	8	10	0	56.7	0	0.086	0.25	0.75	0
16		Exterior	Frm wall, stucco	wic	15	6	8	10	0	66.7	0	0.086	0.25	0.75	0
17		Exterior	Frm wall, stucco	pantry	15	12	0	10	0	120.0	0	0.086	0.25	0.75	0
18		Exterior	Frm wall, stucco	pantry	15	12	0	10	0	120.0	0	0.086	0.25	0.75	0
19		Exterior	Frm wall, stucco	pantry	15	6	0	10	0	60.0	0	0.086	0.25	0.75	0
20		Exterior	Frm wall, stucco	laundry	15	10	0	10	0	100.0	0	0.086	0.25	0.75	0
21		Exterior	Frm wall, stucco	laundry	15	10	0	10	0	100.0	0	0.086	0.25	0.75	0
22		Partition	Frm wall, 1/2" gy	laundry	15	10	0	10	0	100.0	0	0.086	0.25	0.75	0
23		Exterior	Frm wall, stucco	bedroom 3	15	18	0	9	0	162.0	0	0.086	0.25	0.75	0
24		Exterior	Frm wall, stucco	bedroom 3	15	15	8	9	0	141.0	0	0.086	0.25	0.75	0
25		Exterior	Frm wall, stucco	wic 3	15	8	4	9	0	75.0	0	0.086	0.25	0.75	0
26		Exterior	Frm wall, stucco	media room	15	0	4	9	0	3.0	0	0.086	0.25	0.75	0
27		Exterior	Frm wall, stucco	media room	15	21	8	9	0	195.0	0	0.086	0.25	0.75	0
28		Exterior	Frm wall, stucco	media room	15	18	0	9	0	162.0	0	0.086	0.25	0.75	0
29		Exterior	Frm wall, stucco	bath 3	15	6	4	9	0	57.0	0	0.086	0.25	0.75	0
30		Exterior	Frm wall, stucco	bath 4	15	6	8	9	0	60.0	0	0.086	0.25	0.75	0
31		Exterior	Frm wall, stucco	bedroom 4	15	17	10	9	0	160.5	0	0.086	0.25	0.75	0
32		Exterior	Frm wall, stucco	storage	15	24	0	9	0	216.0	0	0.086	0.25	0.75	0
33		Exterior	Frm wall, stucco	storage	15	23	11	9	0	215.2	0	0.086	0.25	0.75	0
34		Exterior	Frm wall, stucco	storage	15	7	8	9	0	69.0	0	0.086	0.25	0.75	0
35		Exterior	Frm wall, stucco	storage	15	17	5	9	0	156.8	0	0.086	0.25	0.75	0
36		Exterior	Frm wall, stucco	balcony	15	5	0	9	0	45.0	0	0.086	0.25	0.75	0

DOORS

(Total Exposed Area = 45 sq.ft.)

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Height Ft	In	In	Area
1	E	Door, wd sc type	foyer/flex	None	0.390	3	0	8	0	24.0
2	N	Door, wd sc type	living/kitchen	None	0.390	3	0	7	0	21.0

WINDOWS

(Total Exposed Area = 469 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Impact	W x H, Area	Overhang Depth	Separation	Interior Shade	Screening
1		1	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	4 ft 0 in	0 ft 0 in	None	None
2		1	Vinyl	Low-E Double	Yes	0.330	0.24	No	4'0" x 6'0", 24 ft²	9 ft 0 in	0 ft 0 in	None	None
3		5	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None
4		6	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None
5		7	Vinyl	Low-E Double	Yes	0.330	0.24	No	4'0" x 2'0", 8 ft²	0 ft 0 in	0 ft 0 in	None	None
6		8	Vinyl	Low-E Double	Yes	0.330	0.24	No	3'0" x 4'0", 12 ft²	1 ft 0 in	0 ft 0 in	None	None
7		10	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 6'0", 36 ft²	18 ft 0 in	0 ft 0 in	None	None
8		10	Vinyl	Low-E Double	Yes	0.330	0.24	No	12'0" x 8'0", 96 ft²	18 ft 0 in	0 ft 0 in	None	None
9		12	Vinyl	Low-E Double	Yes	0.330	0.24	No	9'0" x 5'0", 45 ft²	1 ft 0 in	0 ft 0 in	None	None
10		23	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None
11		24	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None
12		27	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None
13		29	Vinyl	Low-E Double	Yes	0.330	0.24	No	2'0" x 2'0", 4 ft²	0 ft 0 in	0 ft 0 in	None	None
14		30	Vinyl	Low-E Double	Yes	0.330	0.24	No	2'0" x 2'0", 4 ft²	0 ft 0 in	0 ft 0 in	None	None
15		31	Vinyl	Low-E Double	Yes	0.330	0.24	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None
16		33	Vinyl	Low-E Double	No	0.470	0.31	No	6'0" x 5'0", 30 ft²	1 ft 0 in	0 ft 0 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation
1					0

INFILTRATION

#	Scope	Method	SI A	CFM 50	ELA	EqlA	ACH	ACH 50
1	Wholehouse	Simplified	0.000573	7386	405.5	761.5	0.55	7.00

HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Split air source heat pump		7.5 HSPF2	47.5 kBtu/hr	1	sys#1
2	Split air source heat pump		7.5 HSPF2	35.6 kBtu/hr	2	sys#2

COOLING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Split air source heat pump		15 SEER2	47.0 kBtu/hr	1567 cfm	0.70	1	sys#1
2	Split air source heat pump		14.5 SEER2	35.0 kBtu/hr	1167 cfm	0.70	2	sys#2

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF	Cap	Use	SetPnt	Conservation
1	Propane instantaneous			0.80 UEF	0 gal	70 gal	120 °F	None

DUCTS

✓ #	Supply Location	R-Value	Area	Return Location	Area	Leakage Type	Air Handler	CFM 25 Out	Percent Leakage	QN	RLF	HVAC # Heat	# Cool
1	House upstairs ah Attic	6.0	0 ft²	House upstairs ah Attic	0 ft²	Default Leakage Proposed Qn	House House	(Default) 196.5 cfm	6.00	0.08	0.00	1	1
2		6.0	0 ft²		0 ft²				6.00	0.04	0.00	2	2

TEMPERATURES

Programmable Thermostat: Y												Ceiling Fans															
Cooling	Heating	Venting	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Thermostat Schedule														Florida Building Code, 8th Edition													
Schedule Type														(2023)													
														1 2 3 4 5 6 7 8 9 10 11 12													
Cooling (WD)														AM 75 75 75 75 75 75 75 75 75 75 75 75 75 75													
														PM 75 75 75 75 75 75 75 75 75 75 75 75 75 75													
Cooling (WEH)														AM 75 75 75 75 75 75 75 75 75 75 75 75 75 75													
														PM 75 75 75 75 75 75 75 75 75 75 75 75 75 75													
Heating (WD)														AM 72 72 72 72 72 72 72 72 72 72 72 72 72 72													
														PM 72 72 72 72 72 72 72 72 72 72 72 72 72 72													
Heating (WEH)														AM 72 72 72 72 72 72 72 72 72 72 72 72 72 72													
														PM 72 72 72 72 72 72 72 72 72 72 72 72 72 72													

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX = 94

The lower the Energy Performance Index, the more efficient the home.

<p>1 New home or addition</p> <p>2 Single-family or multiple-family</p> <p>3 Number of units, if multiple-family</p> <p>4 Number of bedrooms</p> <p>5 Is this a worst case? (yes/no)</p> <p>6 Conditioned floor area (ft²)</p> <p>7 Windows, type and area*</p> <p style="margin-left: 20px;">a U-Factor</p> <p style="margin-left: 20px;">b Solar Heat Gain Coefficient (SHGC)</p> <p style="margin-left: 20px;">c Area (ft²)</p> <p>8 Skylights</p> <p style="margin-left: 20px;">a U-Factor</p> <p style="margin-left: 20px;">b Solar Heat Gain Coefficient (SHGC)</p> <p>9 Floor type, insulation level</p> <p style="margin-left: 20px;">a Slab-on-grade (R-value)</p> <p style="margin-left: 20px;">b Wood, raised (R-value)</p> <p style="margin-left: 20px;">c Concrete, raised (R-value)</p> <p>10 Wall type and insulation</p> <p style="margin-left: 20px;">a Exterior</p> <p style="margin-left: 40px;">1 Wood/mtl frame (Insulation R-value)</p> <p style="margin-left: 40px;">2 Masonry (Insulation R-value)</p> <p style="margin-left: 20px;">b Adjacent</p> <p style="margin-left: 40px;">1 Wood/mtl frame (Insulation R-value)</p> <p style="margin-left: 40px;">2 Masonry (Insulation R-value)</p> <p>11 Ceiling type and insulation level</p> <p style="margin-left: 20px;">a Under attic (R-value)</p> <p style="margin-left: 20px;">b Single assembly (R-value)</p> <p style="margin-left: 20px;">c Knee walls/skylight walls (R-value)</p> <p style="margin-left: 20px;">d. Radiant barrier installed</p>	<p>1 <u>New (From Plans)</u></p> <p>2. <u>Single-Family</u></p> <p>3 <u>1</u></p> <p>4 <u>4</u></p> <p>5 <u>No</u></p> <p>6 <u>4912 00</u></p> <p>7a <u>Dbi(Avg), 0 339</u></p> <p>7b <u>0 24</u></p> <p>7c <u>469</u></p> <p>8a _____</p> <p>8b _____</p> <p>9a <u>0 0</u></p> <p>9b <u>19 0</u></p> <p>9c _____</p> <p>10a1 <u>15 0</u></p> <p>10a2 _____</p> <p>10b1 <u>15.0</u></p> <p>10b2 _____</p> <p>11a <u>38 0</u></p> <p>11b _____</p> <p>11c _____</p> <p>11d <u>Yes</u></p>	<p>12. Ducts, location & insulation level</p> <p style="margin-left: 20px;">a Supply ducts R _____</p> <p style="margin-left: 20px;">b Return ducts R _____</p> <p style="margin-left: 20px;">c AHU location <u>House,House</u></p> <p>13 Cooling systems Capacity <u>78 6</u></p> <p style="margin-left: 20px;">a Split system. SEER2 <u>14 50</u></p> <p style="margin-left: 20px;">b Single package. SEER2 _____</p> <p style="margin-left: 20px;">c Ground/water source. SEER/COP _____</p> <p style="margin-left: 20px;">d Room unit/PTAC EER _____</p> <p style="margin-left: 20px;">e Other _____</p> <p>14 Heating systems Capacity <u>74 5</u></p> <p style="margin-left: 20px;">a Split system heat pump HSPF2 <u>7 50</u></p> <p style="margin-left: 20px;">b Single package heat pump HSPF2 _____</p> <p style="margin-left: 20px;">c Electric resistance COP _____</p> <p style="margin-left: 20px;">d Gas furnace, natural gas AFUE _____</p> <p style="margin-left: 20px;">e Gas furnace, LPG AFUE _____</p> <p style="margin-left: 20px;">f Other _____</p> <p>15 Water heating systems</p> <p style="margin-left: 20px;">a Electric resistance _____</p> <p style="margin-left: 20px;">b Gas fired, natrual gas _____</p> <p style="margin-left: 20px;">c Gas fired, LPG <u>0 80 UEF</u></p> <p style="margin-left: 20px;">d Solar system with tank _____</p> <p style="margin-left: 20px;">e Dedicated heat pump with tank _____</p> <p style="margin-left: 20px;">f Heat recovery unit HeatRec% _____</p> <p style="margin-left: 20px;">g Other _____</p> <p>16 HVAC credits claimed (Performance Method)</p> <p style="margin-left: 20px;">a Ceiling fans <u>Yes</u></p> <p style="margin-left: 20px;">b Cross ventilation <u>Yes</u></p> <p style="margin-left: 20px;">c Whole house fan _____</p> <p style="margin-left: 20px;">d Multizone cooling credit <u>Yes</u></p> <p style="margin-left: 20px;">e Multizone heating credit <u>Yes</u></p> <p style="margin-left: 20px;">f Programmable thermostat <u>Yes</u></p>
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*Label required by Section R303 1 3 of the Florida Building Code, Energy Conservation, if not DEFAULT

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____

Date: 10/20/25

Address of New Home: TBD Lot 4
Hermitage Glen,
High Springs, 32643

City/FL Zip: High Springs, FL 32643

Florida Building Code, Energy Conservation, 8th Edition (2023) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS TBD

High Springs, FL 32643

PERMIT #

MANDATORY REQUIREMENTS - See individual code sections for full details

SECTION R401 GENERAL

- R401.3 Energy Performance Level (EPL) display card (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit, completed and signed by the builder. The building official shall verify that the EPL display card accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

- R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

- R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

- R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

- R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and M1507.3 of the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individual as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing

- 1 Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
- 2 Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
- 3 Interior doors, if installed at the time of the test, shall be open.
- 4 Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
- 5 Heating and cooling systems, if installed at the time of the test, shall be turned off.
- 6 Supply and return registers, if installed at the time of the test, shall be fully open.
- 7 If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.

- R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

- R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.5.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

- R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

- 1 Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
- 2 Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

MANDATORY REQUIREMENTS - (Continued)

- R402.4.6 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- R402.4.6 Air-Sealed Electrical and Communication Boxes.** Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

SECTION R403 SYSTEMS

- R403.1 Controls**
- R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.
- R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that limit supplemental heat operation to only those times when one of the following applies:
- 1 The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting
 - 2 The heat pump is operating in defrost mode
 - 3 The vapor compression cycle malfunctions
 - 4 The thermostat malfunctions
- R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
- R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.
- R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:
- 1 Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
 - 2 Post construction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test.
- Exceptions:**
- 1 A duct leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
 - 2 Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Q_n to the outside of less than 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.
- A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.
- R403.3.5 Building Cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.
- R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
- R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
- R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
- R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
- R403.5.2 Demand recirculation water systems (Mandatory).** Where installed, demand recirculation water systems shall have controls that comply with both of the following:
- 1 The controls shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance.
 - 2 The controls shall limit the temperature of the water entering the cold water piping to not greater than 104°F (40°C).

MANDATORY REQUIREMENTS - (Continued)

- R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/2 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
 - R403.5.6.1 Storage water heater temperature controls.**
 - R403.5.6.1.1 Automatic controls.** Service water heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
 - R403.5.6.1.2 shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water heating systems to be turned off.
 - R403.5.6.2 Water heating equipment.** Water heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
 - R403.5.6.2.1 Solar water heating system.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
 - 1 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal, and
 - 2 Be installed at an orientation within 45 degrees of true south.
- R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation, including Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
 - R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
 - R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure of for mechanical ventilation shall meet the following criteria:
 - 1 The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 - 2 No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 - 3 If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- R403.7 Heating and cooling equipment.**
 - R403.7.1 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved methodologies, heating and cooling calculation based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM	MINIMUM EFFICACY (a)	AIRFLOW RATE MAXIMUM
	CFM	CFM/WATT	CFM
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	< 90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI 1 cfm = 28.3 L/min

(a) When tested in accordance HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

- R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load. The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature. Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.
- Exceptions:**
- 1 Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
 - 2 When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.
- R403.7.1.2 Heating equipment capacity.**
- R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
- R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
- R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
- 1 A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 - 2 A variable capacity system sized for optimum performance during base load periods is utilized.
- R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.
- R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
- R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
- R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
- R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
- Exceptions:**
- 1 Where public health standards require 24-hour pump operations.
 - 2 Pumps that operate solar- and waste-heat-recovery pool heating systems.
 - 3 Where pumps are powered exclusively from on-site renewable generation.
- R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
- Exception:** Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
- R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
- R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

MANDATORY REQUIREMENTS - (Continued)

- R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14
- R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements
- 1 The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day
 - 2 The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air
 - 3 Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2
 - 4 Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential
- R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements
- 1 If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct
 - 2 If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct
 - 3 A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil
 - 4 Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

- R404.1 Lighting equipment (Mandatory).** All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt

Exception: Low-voltage lighting

- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights

**TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA**

Project Name Street City, State, Zip Owner Design Location	Spec house TBD High Springs, FL 32643 Spec House FL, Gainesville Regional	Builder Name Permit Office Permit Number Jurisdiction	Jerry Lerner
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	✓
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	<input type="checkbox"/>
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attics paces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	<input type="checkbox"/>
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities with corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier	<input type="checkbox"/>
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		<input type="checkbox"/>
Rim joists	Rim joists are insulated and include an air barrier.	Rim joists shall be insulated.	<input type="checkbox"/>
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	<input type="checkbox"/>
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls.	<input type="checkbox"/>
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.		<input type="checkbox"/>
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	<input type="checkbox"/>
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		<input type="checkbox"/>
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	<input type="checkbox"/>
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	<input type="checkbox"/>
Shower/tub on exterior wall	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	Exterior walls adjacent to showers and tubs shall be insulated.	<input type="checkbox"/>
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6.	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	<input type="checkbox"/>
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.		<input type="checkbox"/>
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		<input type="checkbox"/>

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction	Permit Number
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Job Information			
Builder	Jerry Lerner	Community	Lot
Address	TBD		Unit.
City	High Springs	State	FL
		Zip	32643

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

PRESCRIPTIVE METHOD The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) in Climate Zones 1 and 2

PERFORMANCE or ERI METHOD The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on FORM R405-2023 (Performance) or R406-2023 (ERI), section labeled as Infiltration, sub-section ACH50

ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI) 7.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{63305}{\text{ACH}(50)} =$ <p style="text-align: center;"><input type="checkbox"/> PASS</p> <p><input checked="" type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p>Method for calculating building volume:</p> <p><input type="checkbox"/> Retrieved from architectural plans</p> <p><input checked="" type="checkbox"/> Code software calculated</p> <p><input type="checkbox"/> Field measured and calculated</p>
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R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and M1507.3 of the Florida Building Code. Residential Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individual as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing

- 1 Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures
- 2 Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures
- 3 Interior doors, if installed at the time of the test, shall be open
- 4 Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed
- 5 Heating and cooling systems, if installed at the time of the test, shall be turned off
- 6 Supply and return registers, if installed at the time of the test, shall be fully open
- 7 If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction	Permit Number
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Job Information			
Builder	Jerry Lerner	Community	Lot
Address:	TBD		Unit
City	High Springs	State	FL
		Zip	32643

Duct Leakage Test Results

System 1	_____ cfm25
System 2	_____ cfm25
System 3	_____ cfm25
Sum of any additional systems	_____ cfm25
Total of all systems	_____ cfm25

Prescriptive Method cfm25 (Total)
 To qualify as "substantially leak free" Qn Total must be less than or equal to 0.04 if air handler unit is installed. If air handler unit is not installed, Qn Total must be less than or equal to 0.03. This testing method meets the requirements in accordance with Section R403.3.3.
Is the air handler unit installed during testing?

YES (<= 0.04 Qn)
 NO (<= 0.03 Qn)

$$\frac{\text{Total of all systems}}{\text{Total Conditioned Square Footage}} + \frac{4912}{\text{Total Conditioned Square Footage}} = \text{_____ Qn}$$

PASS **FAIL**

Performance / ERI Method cfm25 (Out or Total)
 To qualify using this method, Qn must be not greater than the proposed duct leakage Qn specified on Form R405-2023 or R406-2023.

Leakage Type selected on Form R405-2023 (Energy Calc) or R406-2023	Qn specified on Form R405-2023 (Energy Calc) or R406-2023
<input style="width: 100%;" type="text" value="Proposed Qn"/>	<input style="width: 100%;" type="text" value="0.04"/>

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above duct leakage test results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

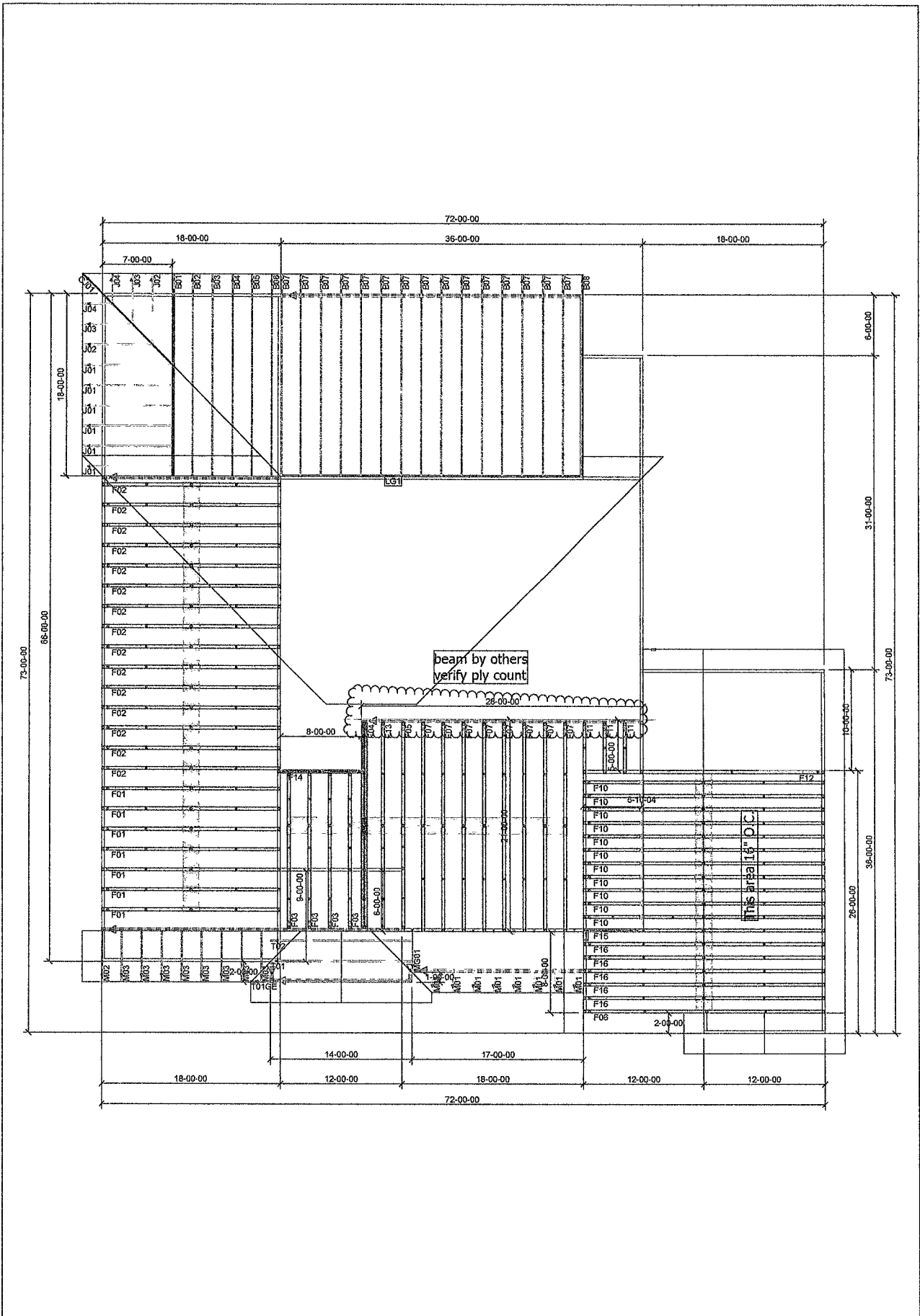
Reference Home Characteristics

Spec House
TBD
High Springs, FL 32643

Title. Lerner
FLBase2023

TMY City FL_Gainesville_Rgn

Above-grade Walls (Uo)	0 084
Above-grade Wall Solar Absorptance	0.75
Above-grade Wall Infrared Emittance	0 90
Basement Walls (Uo)	n/a
Above-grade Floors (Uo)	n/a
Slab Insulation R-Value	0 0
Ceilings (Uo)	0 030
Roof Solar Absorptance	0 75
Roof Infrared Emittance	0 90
Attic Vent Area (ft ²)	4 86
Crawlspace Vent Area (ft ²)	n/a
Exposed Masonry Floor Area (ft ²)	600 37
Carpet & Pad R-Value	1 9
Door Area (ft ²)	0 00
Door U-Factor	n/a
North Window Area (ft ²)	39 50
South Window Area (ft ²)	117 25
East Window Area (ft ²)	117 25
West Window Area (ft ²)	117 25
Window U-Factor	0 400
Window SHGC (Heating)	0.2169
Window SHGC (Cooling)	0.2169
ACH50	7 00
Internal Gains * (Btu/day)	169016
Water heater gallons per day	140 00
Water Heater set point temperature	120 00
Water heater efficiency rating	0 77
Labeled Heating System Rating and Efficiency	HSPF = 8 8
Labeled Cooling System Rating and Efficiency	SEER = 15 0
Air Distribution System Efficiency	0 88
Thermostat Type	Manual
Heating Thermostat Settings	72 0 (All hours)



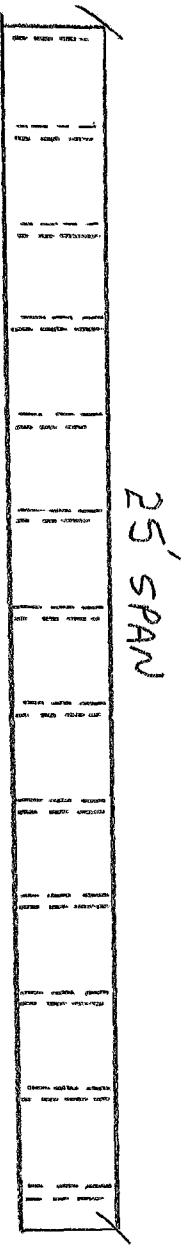
1025-005

Client: JERRY LERNER
 Date 10/14/2025
 Quote Date //
 Seal Date //
 Designer: Jason DeGroff



Ph (386) 294-3988
 Fax (386) 294-3981
 mayotruss@windstream.net

BEAM BY OTHERS / BEAM ABOVE



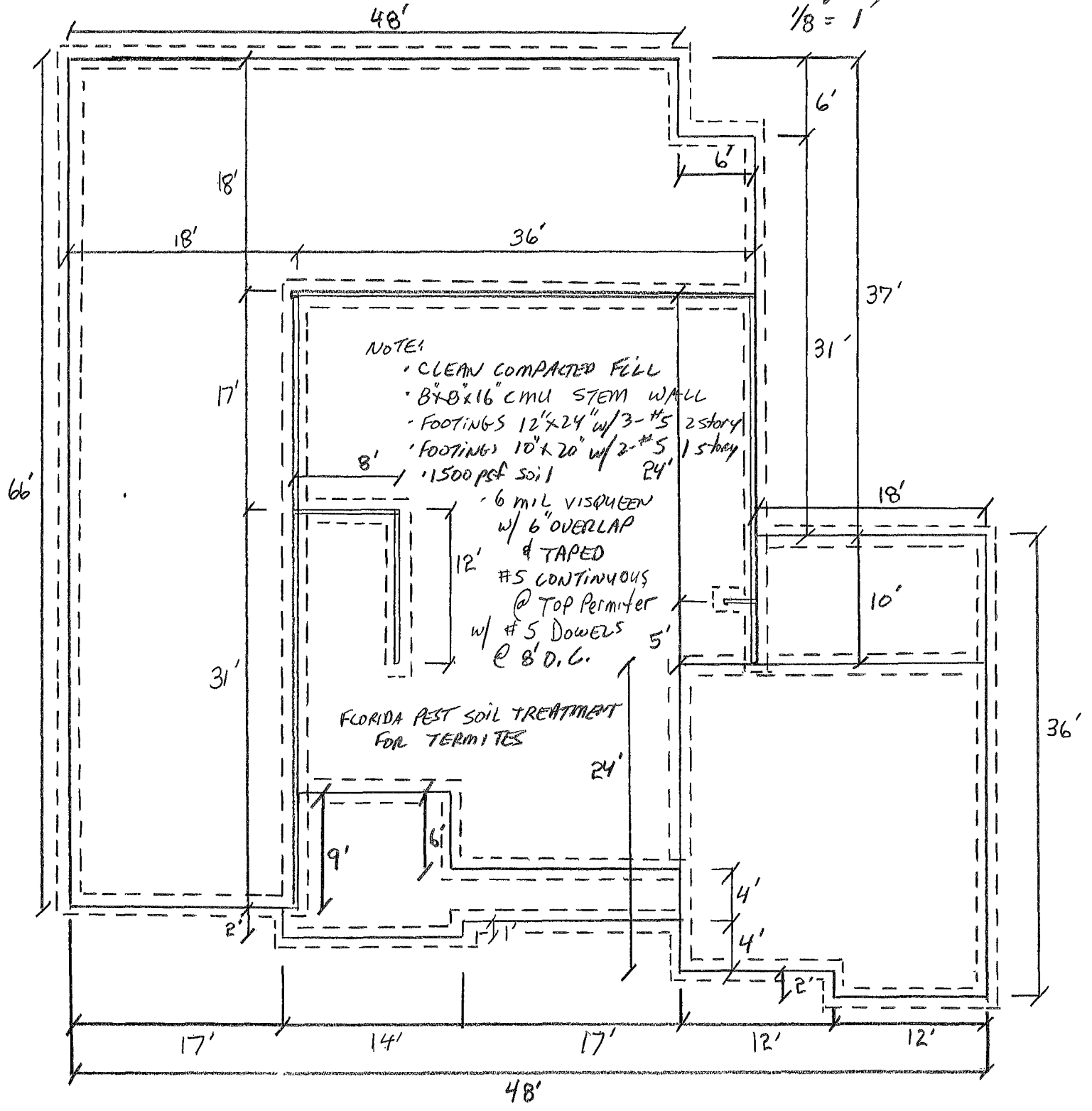
BEAM TO RECEIVE FLOOR TRUSSES 20' 8 1/2" LONG @ 2' O.C.

BEAM TO SPAN END OF BALCONY

1

FOUNDATION PLAN

1/8" = 1'



NOTES:

- CLEAN COMPACTED FILL
- 8" x 8" x 16" CMU STEM WALL
- FOOTINGS 12" x 24" w/ 3-#5 2 story
- FOOTINGS 10" x 20" w/ 2-#5 1 story
- 1500 pcf soil

6 MIL VISQUEEN
w/ 6" OVERLAP
& TAPED
#5 CONTINUOUS
@ TOP PERIMETER
w/ #5 DOWELS
@ 8' O.C.

FLORIDA PEST SOIL TREATMENT
FOR TERMITES

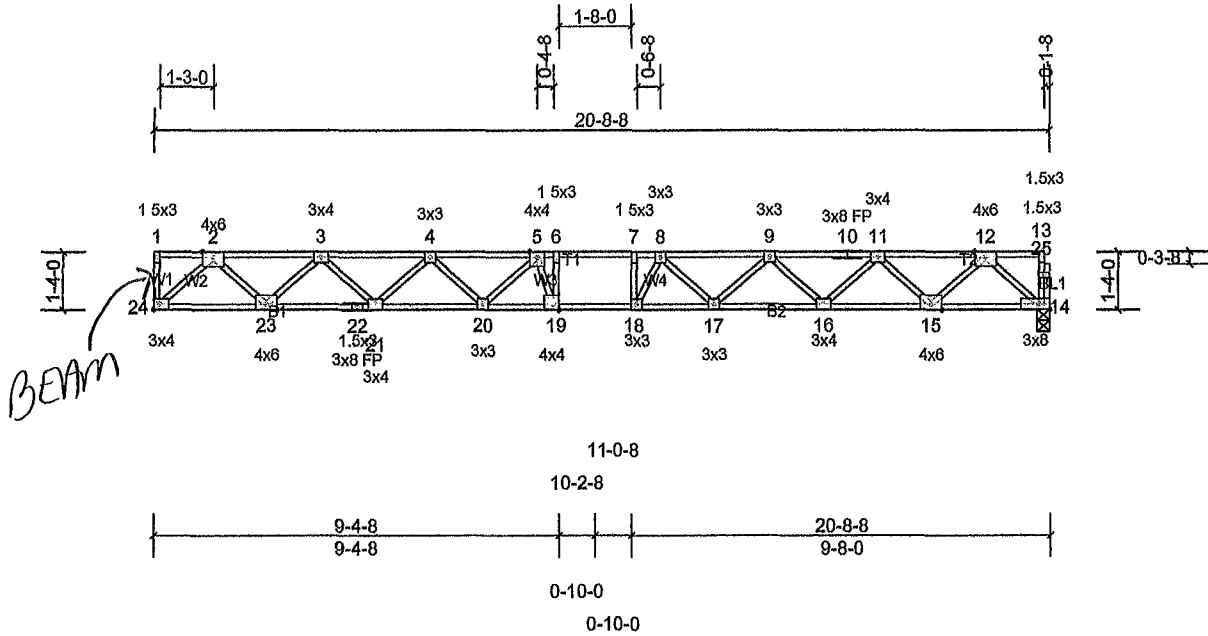
Job 1025-005	Truss F07	Truss Type Floor	Qty 8	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGross

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Scale = 1:51.8

Plate Offsets (X, Y) [19'-0-1-8, Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.41	18-19	>600	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.56	18-19	>436	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S								

Weight: 107 lb FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2 2x4 SP No.1 (flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No 2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing 17-18.

REACTIONS (lb/size) 14=1122/0-3-8, (min 0-1-8), 24=1129/ Mechanical

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

TOP CHORD 2-3=-2067/0, 3-4=-3533/0, 4-5=-4422/0, 5-6=-4755/0, 6-7=-4755/0, 7-8=-4755/0, 8-9=-4438/0, 9-10=-3562/0, 10-11=-3562/0, 11-12=-2110/0
 BOT CHORD 23-24=0/1173, 22-23=0/2932, 21-22=0/2932, 20-21=0/4109, 19-20=0/4716, 18-19=0/4755, 17-18=0/4718, 16-17=0/4132, 15-16=0/2968, 14-15=0/1222
 WEBS 6-19=-468/249, 7-18=-369/194, 2-24=-1594/0, 2-23=0/1243, 3-23=-1203/0, 3-21=0/836, 4-21=-801/0, 4-20=0/473, 5-20=-518/0, 5-19=-362/639, 12-14=-1625/0, 12-15=0/1234, 11-15=-1194/0, 11-16=0/826, 9-16=-792/0, 9-17=0/454, 8-17=-485/0, 8-18=-322/546

NOTES

- 1) Unbalanced floor live loads have been considered for this design
- 2) The Fabrication Tolerance at joint 22 = 11%
- 3) Refer to glider(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

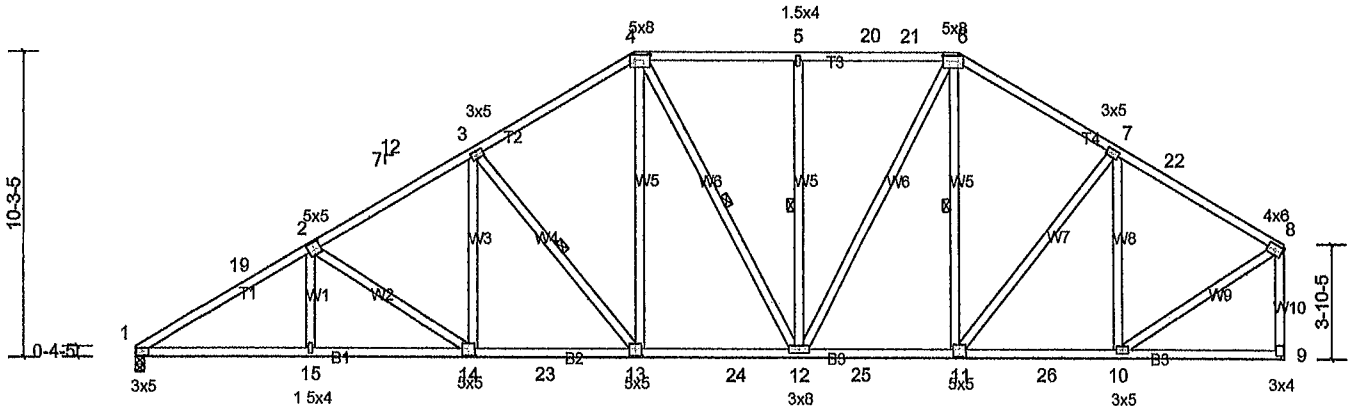
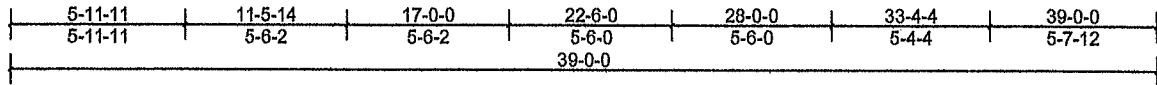
Job 1025-005	Truss A01	Truss Type Hip	Qty 2	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGroff

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Scale = 1:75.9

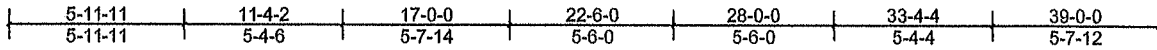


Plate Offsets (X, Y) [2:0-2-8,0-3-0], [4:0-6-0,0-2-4], [6:0-6-0,0-2-4], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0], [14:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.28	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 272 lb	FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied
 WEBS 1 Row at midpt 3-13, 4-12, 5-12, 6-11

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb/size) 1=1554/0-3-8, (min 0-2-2), 9=1554/ Mechanical
 Max Horiz 1=250 (LC 11)
 Max Uplift 1=-86 (LC 12), 9=-88 (LC 12)
 Max Grav 1=1801 (LC 17), 9=1780 (LC 18)

FORCES

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

TOP CHORD 1-19=-3109/206, 2-19=-3037/225, 2-3=-2637/243, 3-4=-2111/267, 4-5=-1725/264, 5-20=-1725/264, 20-21=-1725/264, 6-21=-1725/264, 6-7=-1730/248, 7-22=-1430/182, 8-22=-1555/163, 8-9=-1692/164
 BOT CHORD 1-15=-290/2774, 14-15=-292/2769, 14-23=-226/2308, 13-23=-226/2308, 13-24=-146/1834, 12-24=-146/1834, 12-25=-114/1462, 11-25=-114/1462, 11-26=-136/1288, 10-26=-136/1288
 WEBS 3-13=-750/127, 4-13=-32/825, 5-12=-361/103, 6-12=-54/680, 7-11=-20/316, 7-10=-599/131, 8-10=-102/1483, 2-14=-543/99, 3-14=0/521

NOTES

1) Unbalanced roof live loads have been considered for this design

- 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TC DL=6.0psf, BCDL=6.0psf; h=25ft; B=45ft, L=39ft, eave=5ft; Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 0-0-0 to 3-10-13, Zone1 3-10-13 to 17-0-0, Zone2 17-0-0 to 22-6-0, Zone1 22-6-0 to 28-0-0, Zone2 28-0-0 to 33-4-4, Zone1 33-4-4 to 38-10-4 zone; cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1 60 plate grip DOL=1 60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 1 and 88 lb uplift at joint 9
- 9) 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.

LOAD CASE(S) Standard

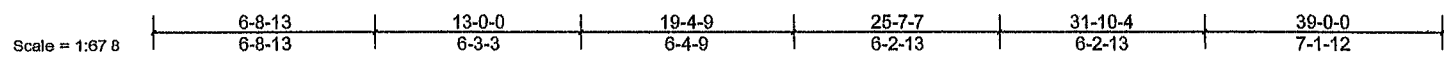
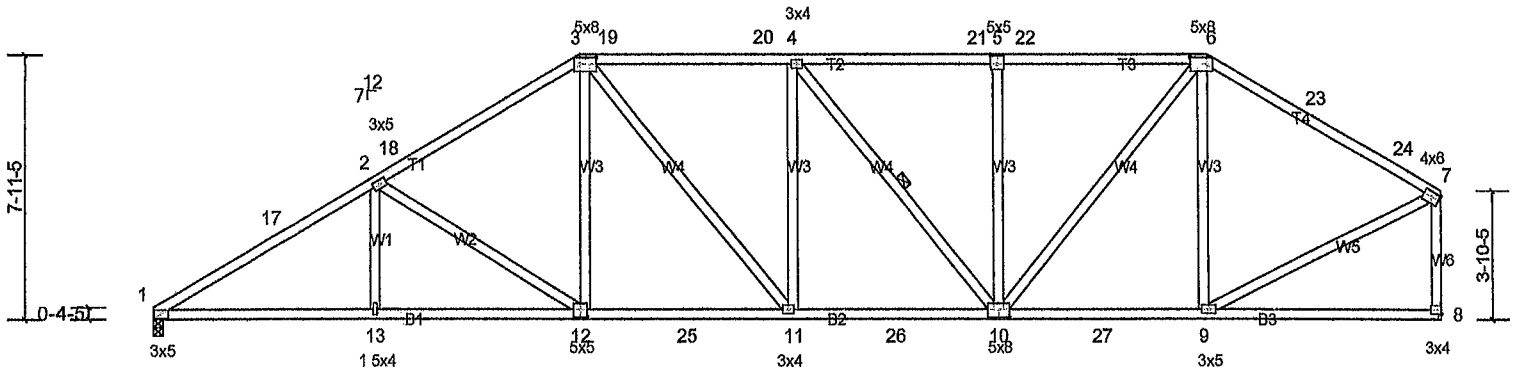
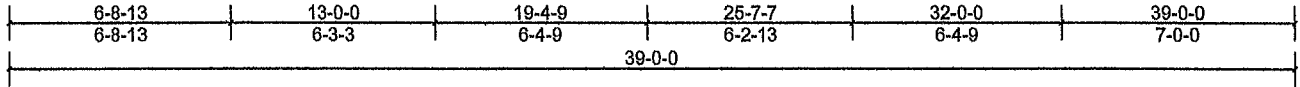
Job 1025-005	Truss A05	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGross

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Scale = 1:67.8

Plate Offsets (X, Y) [3 0-6-0,0-2-4], [5 0-2-8,0-3-0], [6 0-6-0,0-2-4], [7 Edge,0-1-12], [8 Edge,0-1-8], [10 0-4-0,0-3-0], [12 0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 55	Vert(LL)	-0.18	11-12	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 78	Vert(CT)	-0.32	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0 11	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TP12014	Matrix-AS								Weight: 240 lb FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-10

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS

(lb/size) 1=1554/0-3-8, (min. 0-2-2), 8=1554/ Mechanical
 Max Horiz 1=204 (LC 11)
 Max Uplift 1=-86 (LC 12), 8=-88 (LC 12)
 Max Grav 1=1785 (LC 17), 8=1756 (LC 18)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 1-17=-3044/203, 2-17=-2973/224, 2-18=-2475/208, 3-18=-2388/243, 3-19=-2307/258, 19-20=-2307/258, 4-20=-2307/258, 4-21=-2046/241, 5-21=-2046/241, 5-22=-2046/241, 6-22=-2046/241, 6-23=-1566/186, 23-24=-1582/166, 7-24=-1667/153, 7-8=-1644/172
 BOT CHORD 1-13=-293/2680, 12-13=-293/2680, 12-25=-191/2121, 11-25=-191/2121, 11-26=-193/2355, 10-26=-193/2355, 10-27=-129/1366, 9-27=-129/1366
 WEBS 2-13=0/269, 2-12=-662/121, 3-12=0/609, 6-9=-451/130, 7-9=-86/1479, 3-11=-45/499, 4-10=-413/28, 5-10=-397/110, 6-10=-75/1139

NOTES

1) Unbalanced roof live loads have been considered for this design

- 2) Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf; h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II, Exp B, Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-10-13, Zone1 3-10-13 to 13-0-0, Zone2 13-0-0 to 18-6-3, Zone1 18-6-3 to 32-0-0, Zone2 32-0-0 to 37-6-3, Zone1 37-6-3 to 38-10-4 zone; cantilever left and right exposed, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 Opsf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 1 and 88 lb uplift at joint 8.
- 9) 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

LOAD CASE(S) Standard

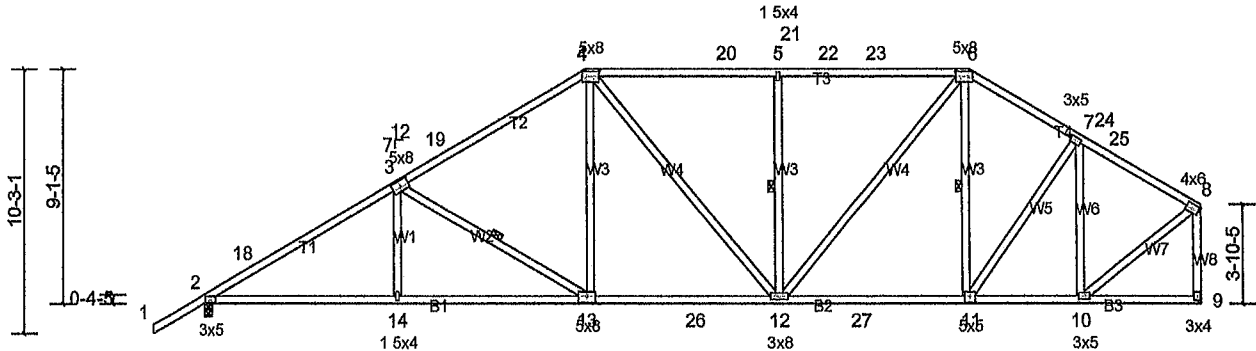
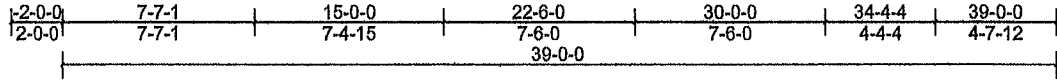
Job 1025-005	Truss A09	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGroff

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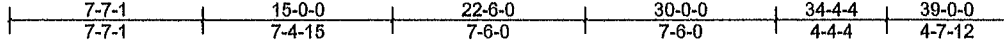


Plate Offsets (X, Y) [3.0-4.0,0-3.0], [4.0-6.0,0-2.4], [6.0-6.0,0-2.4], [11.0-2.8,0-3.0], [13.0-4.0,0-3.0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.19	12-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.33	12-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.11	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
											Weight: 248 lb FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 3-13, 5-12, 6-11

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1677/0-3-8, (min 0-2-4), 9=1551/ Mechanical
 Max Horiz 2=245 (LC 11)
 Max Uplift 2=150 (LC 12), 9=86 (LC 12)
 Max Grav 2=1890 (LC 17), 9=1751 (LC 18)

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

TOP CHORD 2-18=-2978/156, 3-18=-2902/195, 3-19=-2299/194, 4-19=-2198/234, 4-20=-1949/251, 5-20=-1949/251, 5-21=-1949/251, 21-22=-1949/251, 22-23=-1949/251, 6-23=-1949/251, 6-7=-1688/225, 7-24=-1290/169, 24-25=-1308/165, 8-25=-1392/155, 8-9=-1671/158
 BOT CHORD 2-14=-277/2615, 13-14=-278/2611, 13-26=-167/1968, 12-26=-167/1968, 12-27=-122/1426, 11-27=-122/1426, 10-11=-130/1150
 WEBS 3-14=0/310, 3-13=-754/131, 4-13=0/699, 4-12=-48/265, 5-12=-509/139, 6-12=-64/895, 7-11=-21/510, 8-10=-105/1421, 7-10=-771/121

NOTES

1) Unbalanced roof live loads have been considered for this design

- 2) Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II, Exp B, Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-10-13, Zone1 1-10-13 to 15-0-0, Zone2 15-0-0 to 20-6-3, Zone1 20-6-3 to 30-0-0, Zone2 30-0-0 to 35-6-3, Zone1 35-6-3 to 38-10-4 zone; cantilever left and right exposed, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 86 lb uplift at joint 9
- 9) 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

LOAD CASE(S) Standard

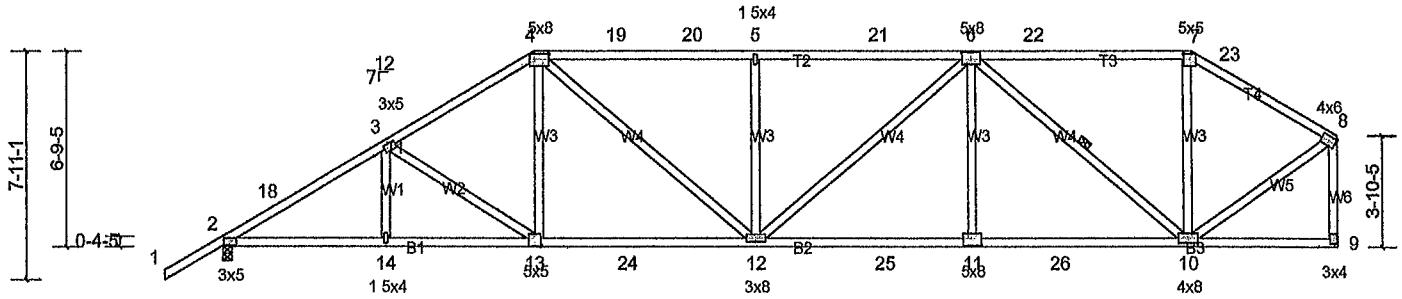
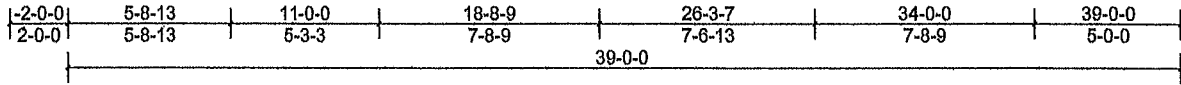
Job 1025-005	Truss A11	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGross

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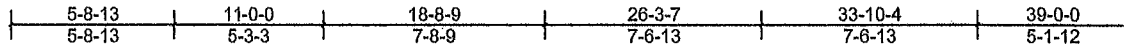


Plate Offsets (X, Y) [4.0-6.0,0-2.4], [6.0-4.0,0-3.0], [7.0-3.0,0-2.4], [11.0-4.0,0-3.0], [13.0-2.8,0-3.4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.43	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS								Weight: 230 lb FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied
 WEBS 1 Row at midpt 6-10

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS (lb/size) 2=1677/0-3-8, (min. 0-2-4), 9=1551/ Mechanical
 Max Horiz 2=198 (LC 11)
 Max Uplift 2=-150 (LC 12), 9=-86 (LC 12)
 Max Grav 2=1893 (LC 17), 9=1749 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 2-18=-3059/159, 3-18=-2997/188, 3-4=-2625/216, 4-19=-2712/249, 19-20=-2712/249, 5-20=-2712/249, 5-21=-2712/249, 6-21=-2712/249, 6-22=-1247/178, 7-22=-1247/178, 7-23=-1366/164, 8-23=-1477/149, 8-9=-1686/154

BOT CHORD 2-14=-288/2665, 13-14=-288/2665, 13-24=-206/2258, 12-24=-206/2258, 12-25=-200/2432, 11-25=-200/2432, 11-26=-200/2432, 10-26=-200/2432
WEBS 3-13=-483/97, 4-13=0/546, 4-12=-43/750, 5-12=-483/138, 6-12=-25/421, 6-11=0/413, 6-10=-1577/95, 7-10=0/430, 8-10=-98/1482

NOTES

1) Unbalanced roof live loads have been considered for this design

2) Wind ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf; h=25ft;
 B=45ft; L=39ft; eave=5ft; Cat. II, Exp B, Enclosed;
 MWFRS (directional) and C-C Zone3 -2-0-0 to 1-10-13, Zone1 1-10-13 to 11-0-0, Zone2 11-0-0 to 16-6-3, Zone1 16-6-3 to 34-0-0, Zone3 34-0-0 to 38-10-4 zone, cantilever left and right exposed, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 4) Provide adequate drainage to prevent water ponding
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 7) Refer to girder(s) for truss to truss connections.
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 86 lb uplift at joint 9
 9) 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.

LOAD CASE(S) Standard

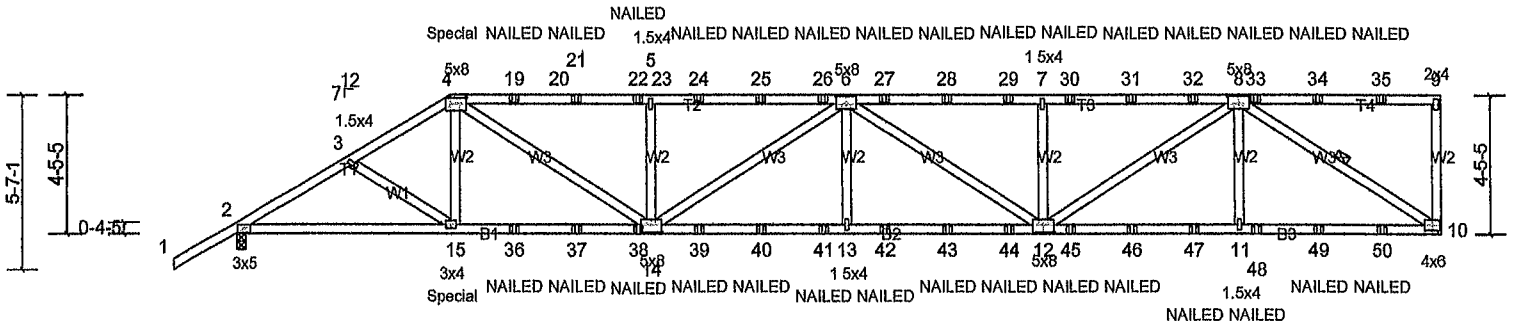
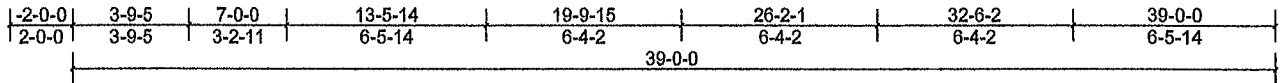
Job 1025-005	Truss A13	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional)
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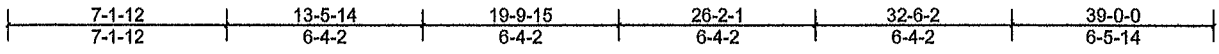


Plate Offsets (X, Y) [4.0-6.0,0-2.4], [6.0-4.0,0-3.0], [8.0-4.0,0-3.0], [12.0-4.0,0-3.0], [14.0-4.0,0-3.0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 82	Vert(LL)	-0 28	13-14	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 73	Vert(CT)	-0 58	13-14	>803	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 55	Horz(CT)	0 17	10	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS								Weight: 430 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2.2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B2.2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing
WEBS 1 Row at midpt 8-10

REACTIONS (lb/size) 2=3163/0-3-8, (min. 0-1-14), 10=3242/ Mechanical
Max Horiz 2=180 (LC 7)
Max Uplift 2=259 (LC 8), 10=-274 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-5592/359, 3-4=-5448/362, 4-18=-7203/599, 19-20=-7203/599, 20-21=-7203/599, 21-22=-7203/599, 5-22=-7203/599, 5-23=-7203/599, 23-24=-7203/599, 24-25=-7203/599, 25-26=-7203/599, 6-26=-7203/599, 6-27=-6944/623, 27-28=-6944/623, 28-29=-6944/623, 7-29=-6944/623, 7-30=-6944/623, 30-31=-6944/623, 31-32=-6944/623, 8-32=-6944/623, 9-10=-289/94
BOT CHORD 2-15=-333/4765, 15-36=-309/4710, 36-37=-309/4710, 37-38=-309/4710, 14-38=-309/4710, 14-39=-630/7887, 39-40=-630/7887, 40-41=-630/7887, 13-41=-630/7887, 13-42=-630/7887, 42-43=-630/7887, 43-44=-630/7887, 12-44=-630/7887, 12-45=-395/4383, 45-46=-395/4383, 46-47=-395/4383, 11-47=-395/4383, 11-48=-395/4383, 48-49=-395/4383, 49-50=-395/4383, 10-50=-395/4383
WEBS 4-15=0/684, 4-14=-317/2993, 5-14=-827/281, 6-14=-844/104, 6-13=0/516, 6-12=-1127/72, 7-12=-751/255, 8-12=-246/3061, 8-11=0/557, 8-10=-5169/438

- 2-ply truss to be connected together with 10d (0 131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCCL=6.0psf, BCDL=6 0psf; h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II, Exp B, Enclosed; MWFRS (directional), cantilever left and right exposed, end vertical left and right exposed, Lumber DOL=1 60. plate grip DOL=1 60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 10 and 259 lb uplift at joint 2
 - "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0 148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down and 109 lb up at 7-0-0 on top chord, and 344 lb down at 7-0-0 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced). Lumber Increase=1 25, Plate Increase=1 25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-9=-60, 10-16=-20

Concentrated Loads (lb)
Vert: 4=-170 (F), 15=-303 (F), 19=-122 (F), 21=-122 (F), 22=-122 (F), 24=-122 (F), 25=-122 (F), 26=-122 (F), 27=-122 (F), 28=-122 (F), 29=-122 (F), 30=-122 (F), 31=-122 (F), 32=-122 (F), 33=-122 (F), 34=-122 (F), 35=-122 (F), 36=-59 (F), 37=-59 (F), 38=-59 (F), 39=-59 (F), 40=-59 (F), 41=-59 (F), 42=-59 (F), 43=-59 (F), 44=-59 (F), 45=-59 (F), 46=-59 (F), 47=-59 (F), 48=-59 (F), 49=-59 (F), 50=-59 (F)

NOTES

Job 1025-005	Truss B02	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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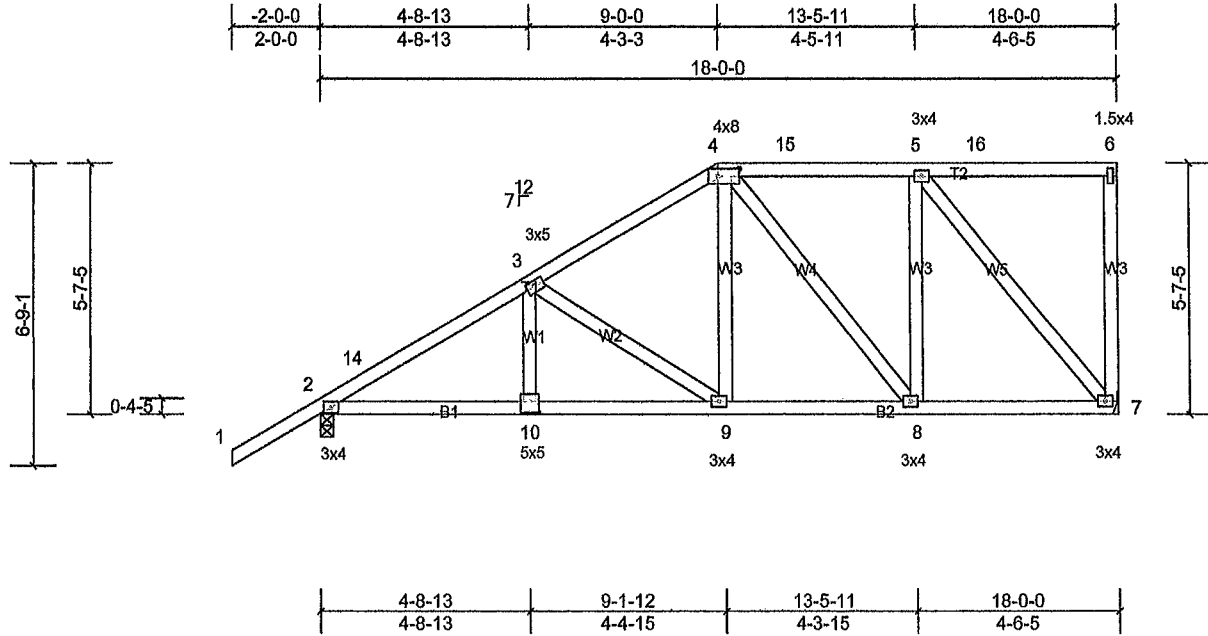


Plate Offsets (X, Y) [4 0-5-8,0-2-0], [10 0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0.25	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0.26	Vert(CT)	-0.05	9-10	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS								Weight: 112 lb FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 7 and 84 lb uplift at joint 2.
- 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

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=841/0-3-8, (min 0-1-8), 7=707/ Mechanical
 Max Horiz 2=200 (LC 12)
 Max Uplift 2=-84 (LC 12), 7=-94 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 2-14=-1098/24, 3-14=-1036/47, 3-4=-764/67, 4-15=-467/59, 5-15=-467/59
 BOT CHORD 2-10=-149/895, 9-10=-149/895, 8-9=-86/608, 7-8=-59/467
 WEBS 3-9=-357/75, 4-9=0/320, 5-7=-718/91, 5-8=0/320

- NOTES**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22; 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, Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-5-11, Zone1 13-5-11 to 17-10-4 zone; cantilever left and right exposed, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.

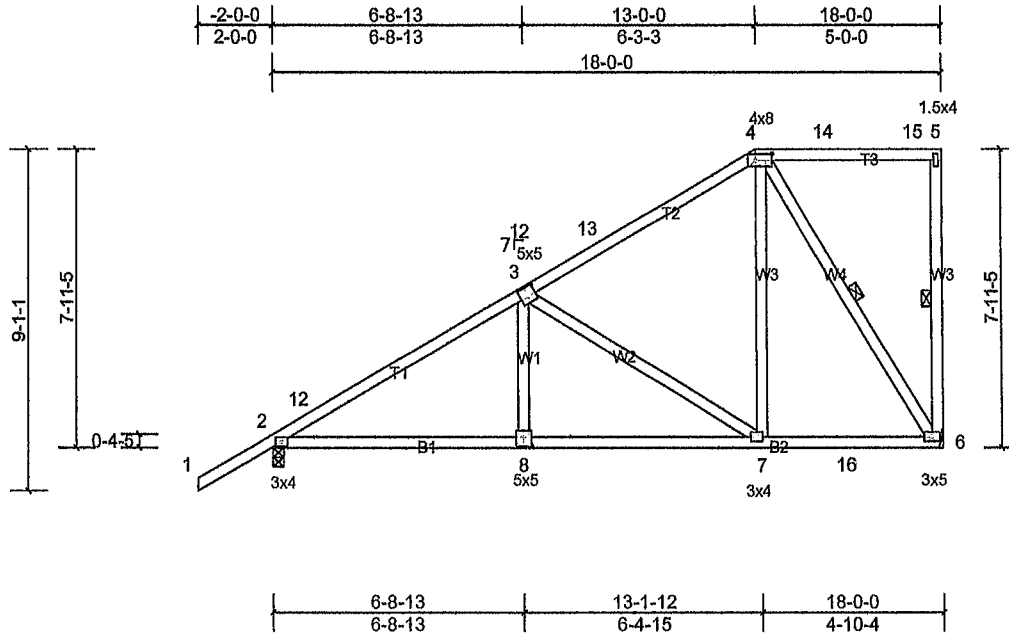
Job 1025-005	Truss B04	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:60.1

Plate Offsets (X, Y) [3 0-2-8,0-3-0], [4 0-5-8,0-2-0], [8 0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	2-0-0	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 38	Vert(LL)	-0 06	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0.46	Vert(CT)	-0 12	8-11	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 65	Horz(CT)	0 02	6	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 111 lb	FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied
 WEBS 1 Row at midpt 5-6, 4-6

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 6 and 60 lb uplift at joint 2.
- 9) 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

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=841/0-3-8, (min. 0-1-8), 6=707/
 Mechanical
 Max Horiz 2=287 (LC 12)
 Max Uplift 2=-60 (LC 12), 6=-82 (LC 12)
 Max Grav 2=930 (LC 17), 6=831 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 2-12=-1147/0, 3-12=-1131/0, 3-13=-547/0, 4-13=-459/24
 BOT CHORD 2-8=-149/977, 7-8=-151/973, 7-16=-60/419, 6-16=-60/419
 WEBS 3-8=0/282, 3-7=-668/107, 4-7=0/586, 4-6=-767/110

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind ASCE 7-22, 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, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 17-10-4 zone; cantilever left and right exposed, end vertical left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1 60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding
 - 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.

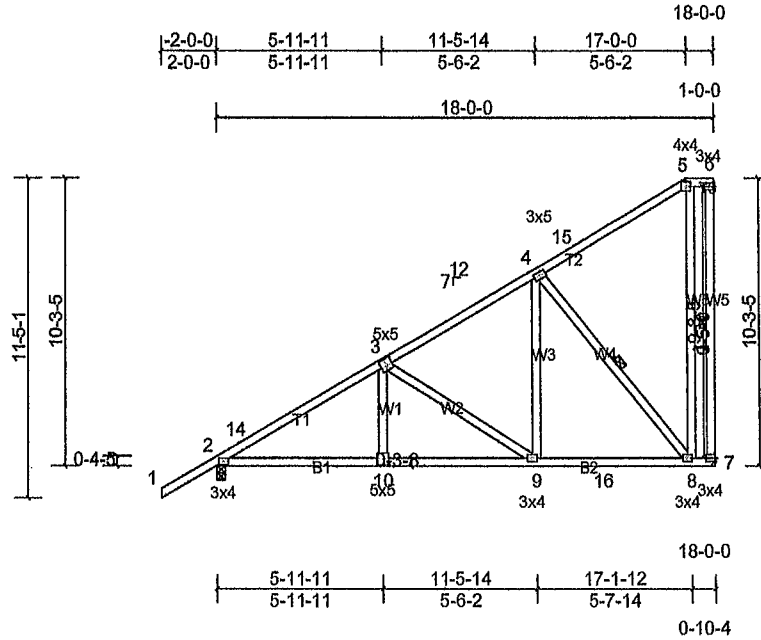
Job 1025-005	Truss B06	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1.80.7

Plate Offsets (X, Y) [3 0-2-8,0-3-0], [6 Edge,0-1-8], [7 Edge,0-1-8], [10 0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	2-0-0	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 52	Vert(LL)	-0.12	8-9	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 63	Vert(CT)	-0.22	8-9	>965	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 37	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 126 lb	FT = 20%

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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-7, 4-8

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 7 and 27 lb uplift at joint 2.
- 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

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=841/0-3-8, (min. 0-1-8), 7=707/ Mechanical
 Max Horiz 2=333 (LC 12)
 Max Uplift 2=27 (LC 12), 7=-114 (LC 12)
 Max Grav 2=929 (LC 17), 7=862 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 2-14=-1168/0, 3-14=-1154/0, 3-4=-698/0, 6-7=-300/9
 BOT CHORD 2-10=-146/1019, 9-10=-147/1015, 9-16=-89/584, 8-16=-89/584
 WEBS 3-9=-515/70, 4-9=0/592, 4-8=-860/129

- NOTES**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22; Vult=130mph (3-second gust) Vasc=101mph, TCDL=6.0psf; BCDL=6 0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp B, Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone3 17-0-0 to 17-10-4 zone; cantilever left and right exposed, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding
 - This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.

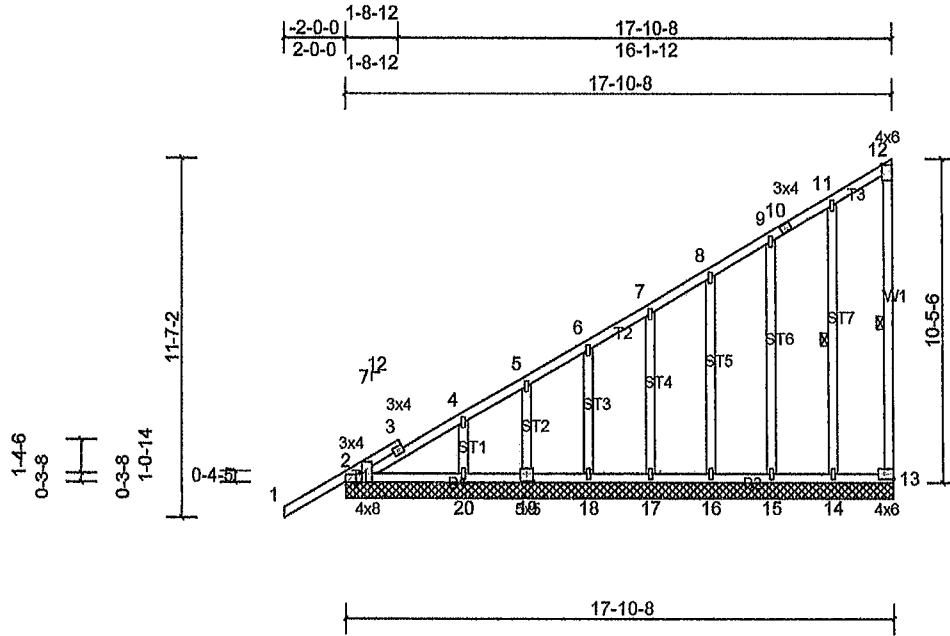
Job 1025-005	Truss B08	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1/2" = 1'-0"

Plate Offsets (X, Y) [2 0-3-8, Edge], [2 0-1-9, Edge], [12 0-3-12, Edge], [13 Edge, 0-2-0], [19 0-2-8, 0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.44	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 132 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied
WEBS 1 Row at midpt 12-13, 11-14

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 17-10-8
(lb) - Max Horiz 2=363 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 13, 14, 15, 16, 17, 18, 19
Max Grav All reactions 250 (lb) or less at joint (s) 13, 14, 15, 16, 17, 18, 19, 20 except 2=290 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-557/391, 3-4=-553/416, 4-5=-506/370, 5-6=-444/346, 6-7=-386/315, 7-8=-328/285, 8-9=-268/254

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6 0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 zone, cantilever left and right exposed, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- All plates are 1 5x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 13, 2, 14, 15, 16, 17, 18, 19, 2.
- 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

LOAD CASE(S) Standard

Job 1025-005	Truss C02	Truss Type Common	Qty 2	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGross

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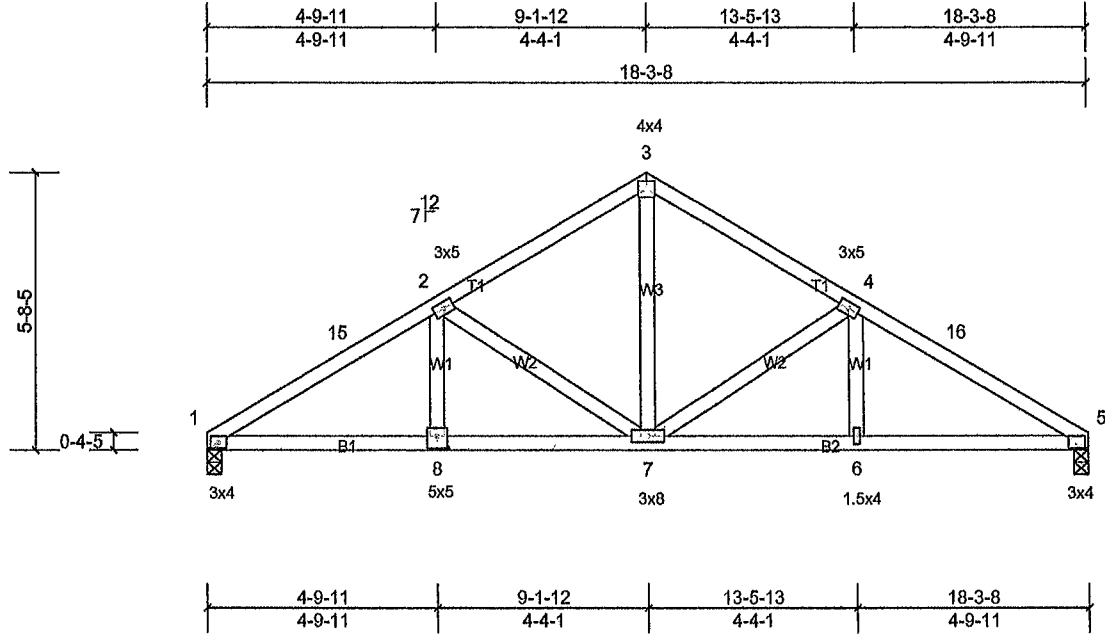


Plate Offsets (X, Y) [8.0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 21	Vert(LL)	-0 03	7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 31	Vert(CT)	-0 06	6-7	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 18	Horz(CT)	0 03	5	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 89 lb	FT = 20%

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.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=732/0-3-8, (min 0-1-8),
 5=732/0-3-8, (min 0-1-8)
 Max Horiz 1=105 (LC 11)
 Max Uplift 1=-41 (LC 12), 5=-41 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 1-15=-1156/146, 2-15=-1093/161,
 2-3=-810/165, 3-4=-810/165,
 4-16=-1093/161, 5-16=-1156/146
 BOT CHORD 1-8=-80/963, 7-8=-80/963, 6-7=-76/963,
 5-6=-76/963
 WEBS 3-7=-56/506, 4-7=-398/110, 2-7=-398/110

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind ASCE 7-22; 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, Enclosed;
 MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0,
 Zone1 3-0-0 to 9-1-12, Zone2 9-1-12 to 13-5-13, Zone1
 13-5-13 to 18-3-8 zone; cantilever left and right
 exposed, end vertical left and right exposed, C-C for
 members and forces & MWFRS for reactions shown,
 Lumber DOL=1 60 plate grip DOL=1 60
 - 3) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10 0 psf bottom chord
 live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20 psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.

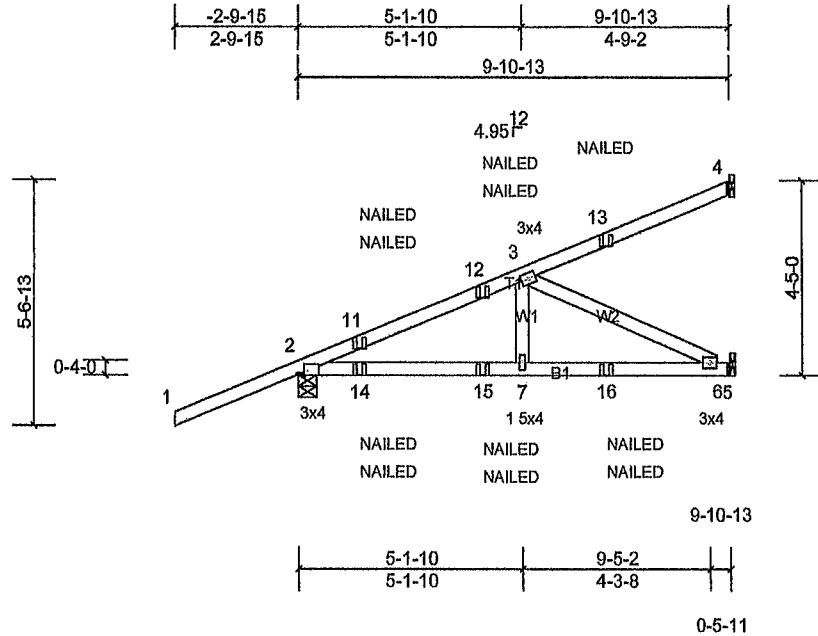
Job 1025-005	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 3	Ply 1	Job Reference (optional)
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Scale = 1/8" = 1'-0"

Plate Offsets (X, Y) [2:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.08	7-10	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 45 lb	FT = 20%

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 or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=475/0-4-15, (min. 0-1-8), 4=131/ Mechanical, 5=273/ Mechanical
 Max Horiz 2=166 (LC 8)
 Max Uplift 2=-187 (LC 8), 4=-45 (LC 8)
 Max Grav 2=556 (LC 13), 4=133 (LC 19), 5=309 (LC 13)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 2-11=-663/229, 11-12=-620/0, 3-12=-565/0
 BOT CHORD 2-14=-242/561, 14-15=-62/561, 7-15=-62/561, 7-16=-62/561, 6-16=-62/561
 WEBS 3-7=0/250, 3-6=-622/69

- NOTES**
- 1) Wind ASCE 7-22, 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, Enclosed, MVFRS (directional), cantilever left and right exposed, end vertical left and right exposed, Lumber DOL=1.60 plate grip DOL=1.80
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 187 lb uplift at joint 2.
 - 7) "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148"x3.25") toe-nails per NDS guidelines.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
- LOAD CASE(S) Standard**
- 1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-4=-60, 5-8=-20
 Concentrated Loads (lb)
 Vert: 11=73 (F=36, B=36), 13=-36 (B), 14=81 (F=41, B=41), 15=7 (F=4, B=4), 16=-48 (F=-24, B=-24)

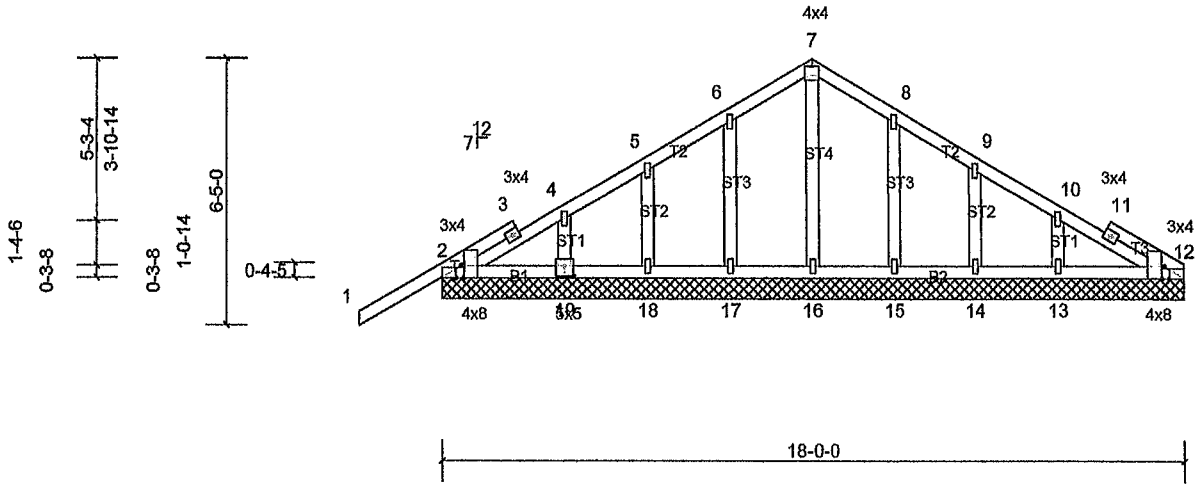
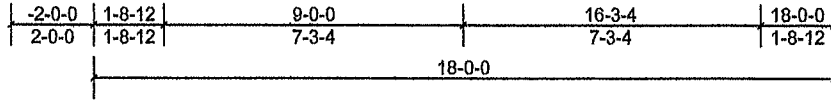
Job 1025-005	Truss D01	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGroff

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Scale = 1.544

Plate Offsets (X, Y) [2-0-3-8,Edge], [2-0-1-9,Edge], [12-0-3-8,Edge], [12 0-1-9,Edge], [19-0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	Horz(CT)	0 00	12	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 94 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 17, 18, 15, 14, 13, 2.
- 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

LOAD CASE(S) Standard

REACTIONS All bearings 18-0-0

- (lb) - Max Horiz 2=114 (LC 11)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 13, 14, 15, 17, 18
- Max Grav All reactions 250 (lb) or less at joint (s) 12, 13, 14, 15, 16, 17, 18, 19 except 2=275 (LC 1)

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

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph, TCDL=6.0psf; BCDL=6 0psf; h=25ft, B=45ft; L=24ft; eave=2ft; Cat. II, Exp B, Enclosed; MVFRS (directional) and C-C Zone3 zone; cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MVFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1 5x4 (II) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.

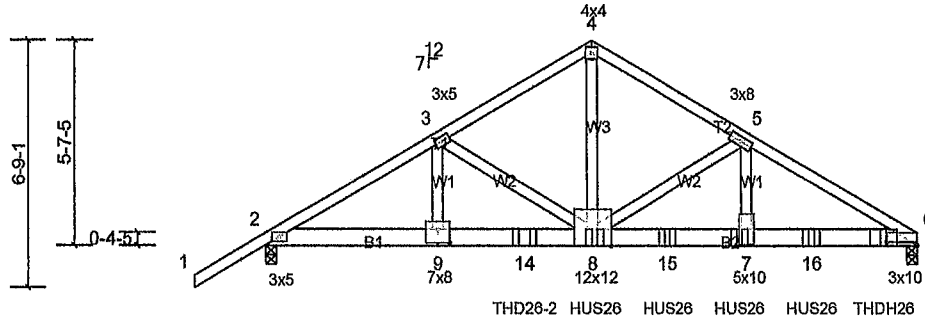
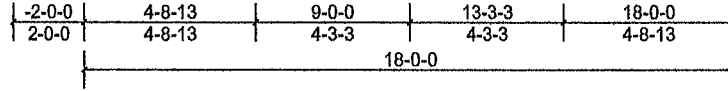
Job 1025-005	Truss D03	Truss Type Common Girder	Qty 1	Ply 3	Job Reference (optional)
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Scale = 1:61 8



Plate Offsets (X, Y) [6 0-10-0,0-1-1], [9 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 54	Vert(LL)	-0 10	8-9	>999	240	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0 57	Vert(CT)	-0.19	8-9	>999	180	
BCLL	0 0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0 05	6	n/a	n/a	
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 315 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* B2.2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (lb/size) 2=4865/0-3-8, (min. 0-1-15), 6=7576/0-3-8, (min 0-2-4)
 Max Horiz 2=121 (LC 7)
 Max Uplift 2=-412 (LC 8), 6=-506 (LC 8)
 Max Grav 2=4865 (LC 1), 6=8067 (LC 14)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-9348/680, 3-4=-7858/609, 4-5=-7877/610, 5-6=-11920/793
 BOT CHORD 2-9=-531/8085, 9-14=-531/8085, 8-14=-531/8085, 8-15=-634/10292, 7-15=-634/10292, 7-16=-634/10292, 6-16=-634/10292
 WEBS 3-9=-67/1404, 3-8=-1568/156, 4-8=-535/7641, 5-8=-4243/277, 5-7=-163/4020

NOTES

1) 3-ply truss to be connected together with 10d (0 131"x3") nails as follows.
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-8 2x4 - 1 row at 0-6-0 oc, member 5-7 2x4 - 2 rows staggered at 0-5-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 3) Unbalanced roof live loads have been considered for this design

- 4) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp B, Enclosed, MWFRS (directional), cantilever left and right exposed, end vertical left and right exposed, Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 506 lb uplift at joint 6 and 412 lb uplift at joint 2.
- 9) Use MITek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) A13 (2 ply 2x4 SP) to back face of bottom chord
- 10) Use MITek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 15-0-12 to connect truss(es) A12 (1 ply 2x4 SP), A11 (1 ply 2x4 SP), A10 (1 ply 2x4 SP), A09 (1 ply 2x4 SP) to back face of bottom chord.
- 11) Use MITek THDH26 (With 20-16d nails into Girder & 8-16d nails into Truss) or equivalent at 17-0-12 from the left end to connect truss(es) A01 (1 ply 2x4 SP) to back face of bottom chord
- 12) Fill all nail holes where hanger is in contact with lumber

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-4=-80, 4-6=-60, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-1531 (B), 7=-1531 (B), 11=-1535 (B), 14=-3222 (B), 15=-1531 (B), 16=-1531 (B)

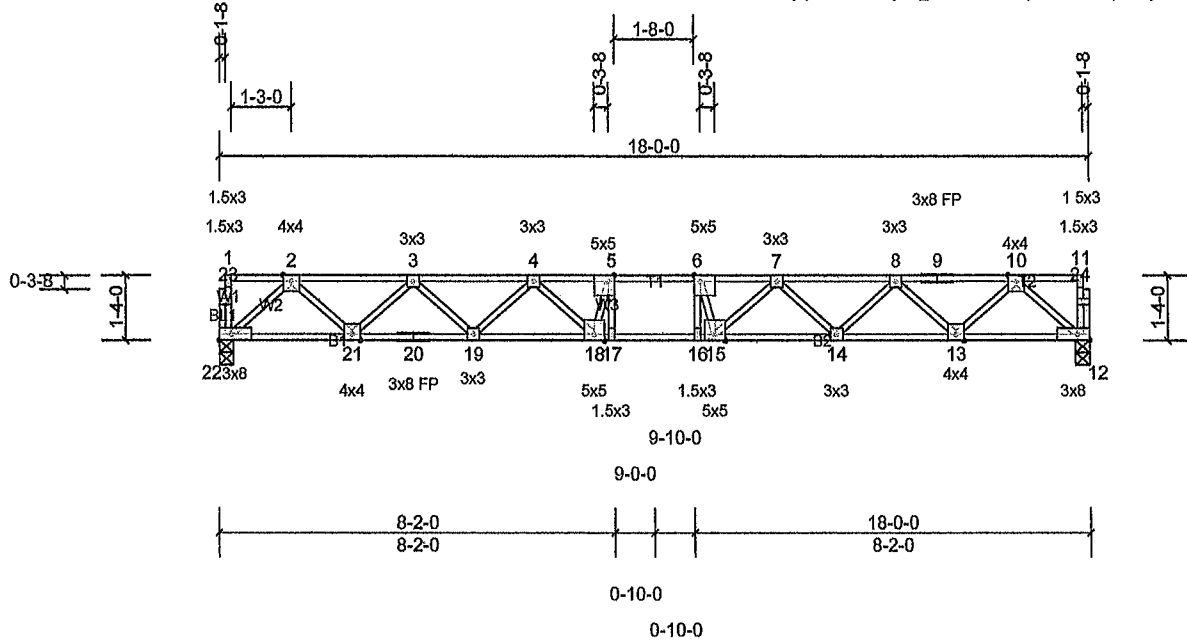
Job 1025-005	Truss F02	Truss Type Floor	Qty 15	Ply 1	Job Reference (optional)
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Scale = 1.46 2

Plate Offsets (X, Y) [6.0-1-8,Edge], [6.0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40 0	Plate Grip DOL	1 00	TC	0.42	Vert(LL)	-0 23	16-17	>910	360	MT20	244/190
TCDL	10 0	Lumber DOL	1 00	BC	0 86	Vert(CT)	-0 32	16-17	>661	240		
BCLL	0 0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0 06	12	n/a	n/a		
BCDL	5 0	Code	FBC2023/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2:2x4 SP No.1 (flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No 2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (lb/size) 12=970/0-3-8, (min. 0-1-8),
 22=970/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-1781/0, 3-4=-2913/0, 4-5=-3507/0,
 5-6=-3554/0; 6-7=-3507/0, 7-8=-2913/0,
 8-9=-1781/0, 9-10=-1781/0

BOT CHORD 21-22=0/1048, 20-21=0/2485, 19-20=0/2485,
 18-19=0/3317, 17-18=0/3554, 16-17=0/3554,
 15-16=0/3554, 14-15=0/3317, 13-14=0/2485,
 12-13=0/1048

WEBS 5-17=-344/348, 6-16=-344/348,
 2-22=-1393/0, 2-21=0/1019, 3-21=-978/0,
 3-19=0/596, 4-19=-562/0, 4-18=0/450,
 5-18=-563/275, 10-12=-1393/0,
 10-13=0/1019, 8-13=-978/0, 8-14=0/596,
 7-14=-562/0, 7-15=0/450, 6-15=-563/275

NOTES

- Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0 131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

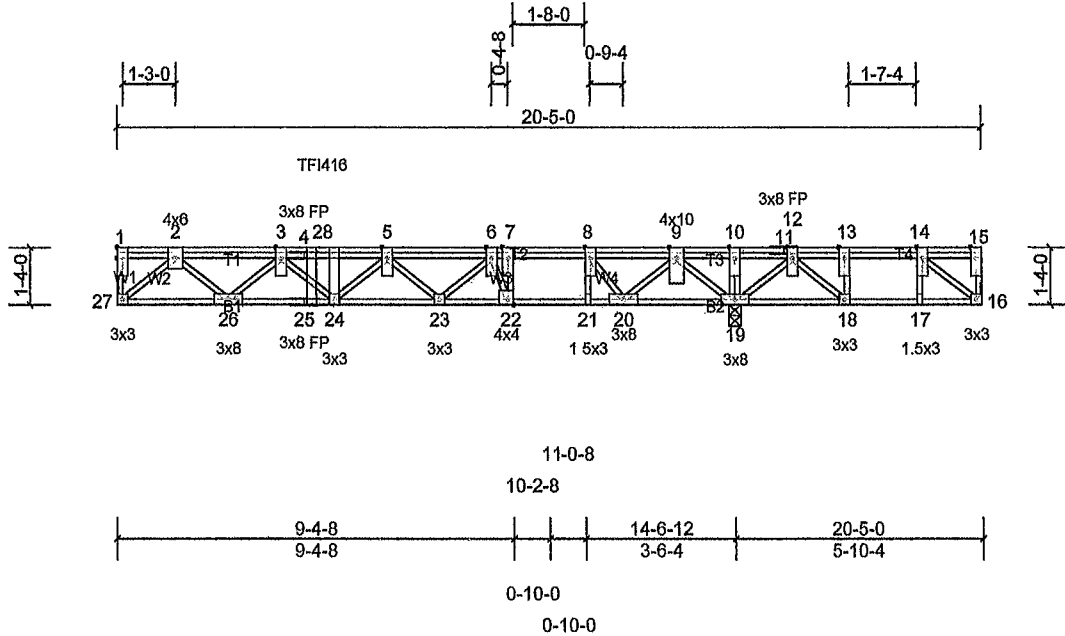
Job 1025-005	Truss F04	Truss Type Floor Girder	Qty 1	Ply 2	Job Reference (optional)
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Scale = 1/52.7

Plate Offsets (X, Y) [22:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40 0	Plate Grip DOL	1 00	TC	0 82	Vert(LL)	-0.13	22-23	>999	360	MT20	244/190
TCDL	10 0	Lumber DOL	1 00	BC	0 89	Vert(CT)	-0.18	22-23	>994	240		
BCLL	0 0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	19	n/a	n/a		
BCDL	5 0	Code	FBC2023/TPI2014	Matrix-S								
											Weight: 268 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No 2(flat)
 WEBS 2x4 SP No 2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS (lb/size) 16=7/ Mechanical, 19=1924/0-3-8, (min 0-1-8), 27=1427/ Mechanical
 Max Uplift 16=198 (LC 3)
 Max Grav 16=205 (LC 4), 19=1956 (LC 9), 27=1487 (LC 10)

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

TOP CHORD 2-3=-3034/0, 3-4=-4667/0, 4-28=-4667/0, 5-28=-4667/0, 5-6=-4158/0, 6-7=-2488/0, 7-8=-2488/0, 8-9=-1359/0, 9-10=0/1536, 10-11=0/1536, 11-12=0/1536, 12-13=-142/451, 13-14=-142/451
 BOT CHORD 26-27=0/1567, 25-26=0/4465, 24-25=0/4465, 23-24=0/4862, 22-23=0/3324, 21-22=0/2488, 20-21=0/2488, 19-20=-353/0, 18-19=-1044/0, 17-18=-451/142, 16-17=-451/142
 WEBS 7-22=0/2064, 8-21=0/362, 10-19=-419/0, 2-27=-2081/0, 2-26=0/1989, 3-26=-1942/0, 3-24=0/275, 5-24=-265/0, 5-23=-998/0, 6-23=0/1181, 6-22=-2450/0, 9-19=-1646/0, 9-20=0/2058, 8-20=-1943/0, 12-19=-709/0, 14-16=-184/587, 12-18=0/938, 13-18=-545/0

NOTES

- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all piles.
- 2) Unbalanced floor live loads have been considered for this design
- 3) All plates are 3x8 (||) MT20 unless otherwise indicated
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 16.

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0 131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.
- 8) Use MITek TFI416 (With 10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent at 4-10-4 from the left end to connect truss(es) F14 (1 ply 2x4 SP) to front face of top chord
- 9) Fill all nail holes where hanger is in contact with lumber
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced). Lumber Increase=1 00, Plate Increase=1 00
 Uniform Loads (lb/ft)
 Vert: 16-27=-10, 1-15=-100
 Concentrated Loads (lb)
 Vert: 28=-1126 (F)

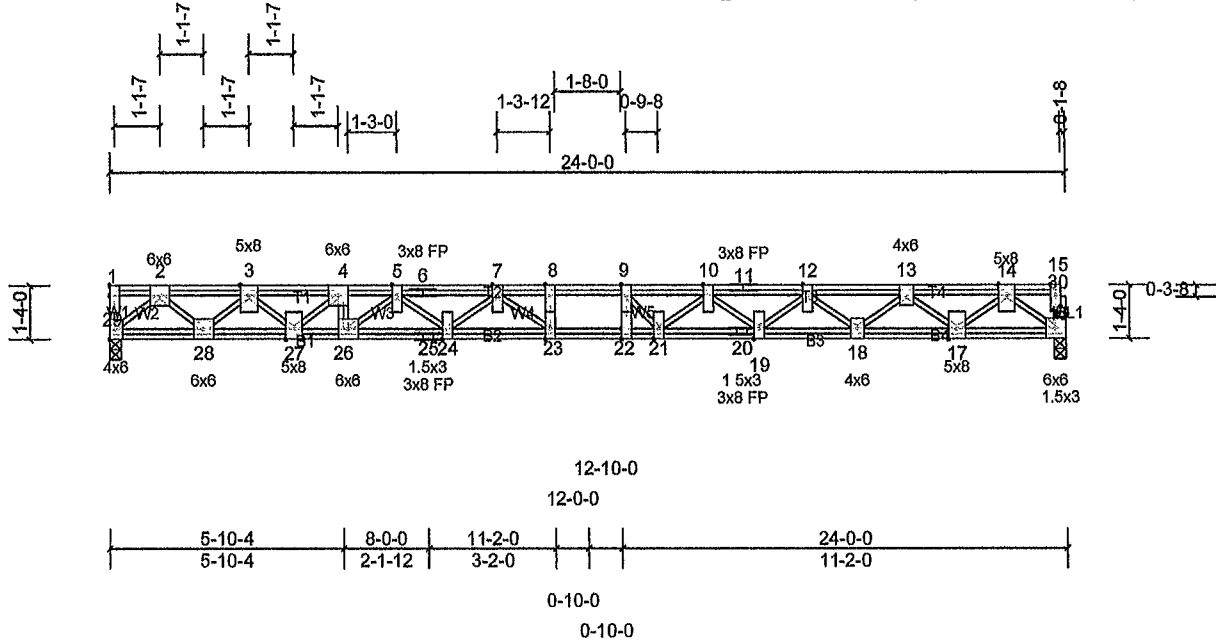
Job 1025-005	Truss F10	Truss Type Floor	Qty 11	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGroff

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Scale = 1/64.1

Plate Offsets (X, Y) [22:0-3-0,Edge], [30 0-1-8,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40 0	Plate Grip DOL	1 00	TC	Vert(LL)	-0.40	23-24	>716	360	MT20	244/190
TCDL	10 0	Lumber DOL	1 00	BC	Vert(CT)	-0.55	23-24	>520	240		
BCLL	0 0	Rep Stress Incr	NO	WB	Horz(CT)	0.06	16	n/a	n/a		
BCDL	5 0	Code	FBC2023/TPI2014	Matrix-S							

Weight: 190 lb FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2,B3.2x4 SP No.1(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (lb/size) 16=981/0-3-8, (min 0-1-8),
 29=1211/0-3-8, (min 0-1-8)

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

TOP CHORD 2-3=-2357/0, 3-4=-4320/0, 4-5=-5283/0,
 5-6=-5853/0, 6-7=-5853/0, 7-8=-5897/0,
 8-9=-5897/0, 9-10=-5623/0, 10-11=-4839/0,
 11-12=-4839/0, 12-13=-3661/0,
 13-14=-2057/0
 BOT CHORD 28-29=0/1274, 27-28=0/3427, 26-27=0/5283,
 25-26=0/5660, 24-25=0/5660, 23-24=0/5989,
 22-23=0/5897, 21-22=0/5897, 20-21=0/5304,
 19-20=0/5304, 18-19=0/4350, 17-18=0/2957,
 16-17=0/1207
 WEBS 4-26=0/283, 9-22=-131/317, 5-26=-479/0,
 5-24=0/335, 7-24=-345/66, 7-23=-453/394,
 14-16=-1492/0, 14-17=0/1128,
 13-17=-1191/0, 13-18=0/932, 12-18=-911/0,
 12-19=0/648, 10-19=-615/0, 10-21=0/593,
 9-21=-716/91, 2-29=-1728/0, 2-28=0/1506,
 3-28=-1487/0, 3-27=0/1242, 4-27=-1277/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x8 (||) MT20 unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 25 = 11%, joint 20 = 11%
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (Ø 131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means
- 5) CAUTION, Do not erect truss backwards.

- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 450 lb down at 5-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced) Lumber Increase=1 00,
 Plate Increase=1 00
 Uniform Loads (lb/ft)
 Vert: 16-29=-7, 1-15=-67
 Concentrated Loads (lb)
 Vert: 4=-450 (F)

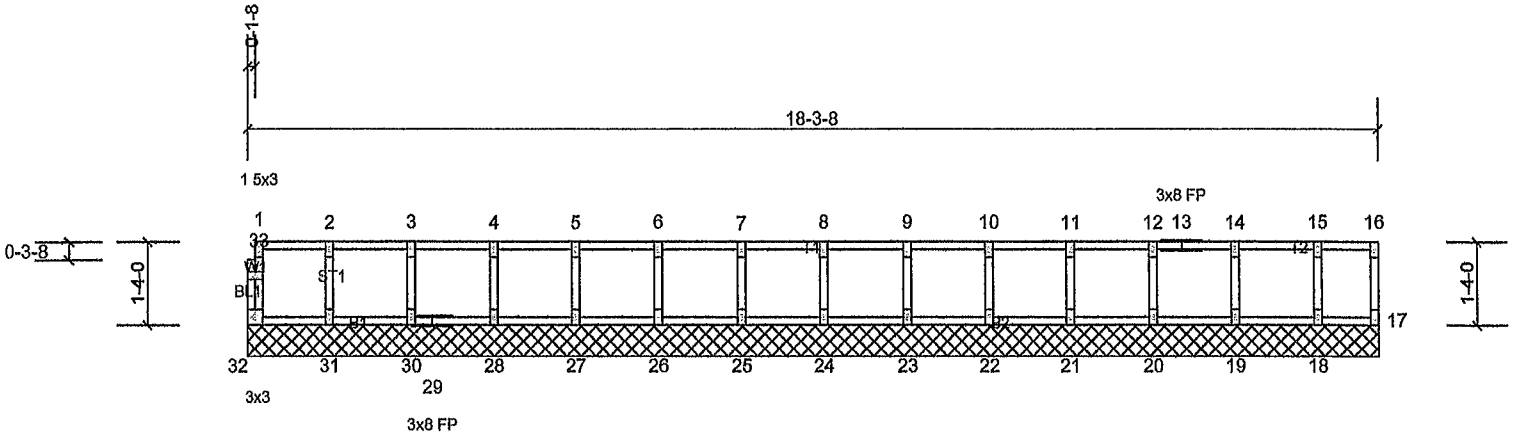
Job 1025-005	Truss F12	Truss Type Floor Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1/36.2

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40 0	Plate Grip DOL	1 00	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 00	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0	Rep Stress Incr	YES	WB	Horiz(TL)	0 00	17	n/a	n/a		
BCDL	5 0	Code	FBC2023/TP12014	Matrix-R						Weight: 80 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No 2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No 2(flat)
 OTHERS 2x4 SP No 2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 18-3-8.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32

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

NOTES

- 1) All plates are 1 5x3 (II) MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web)
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0 131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards

LOAD CASE(S) Standard

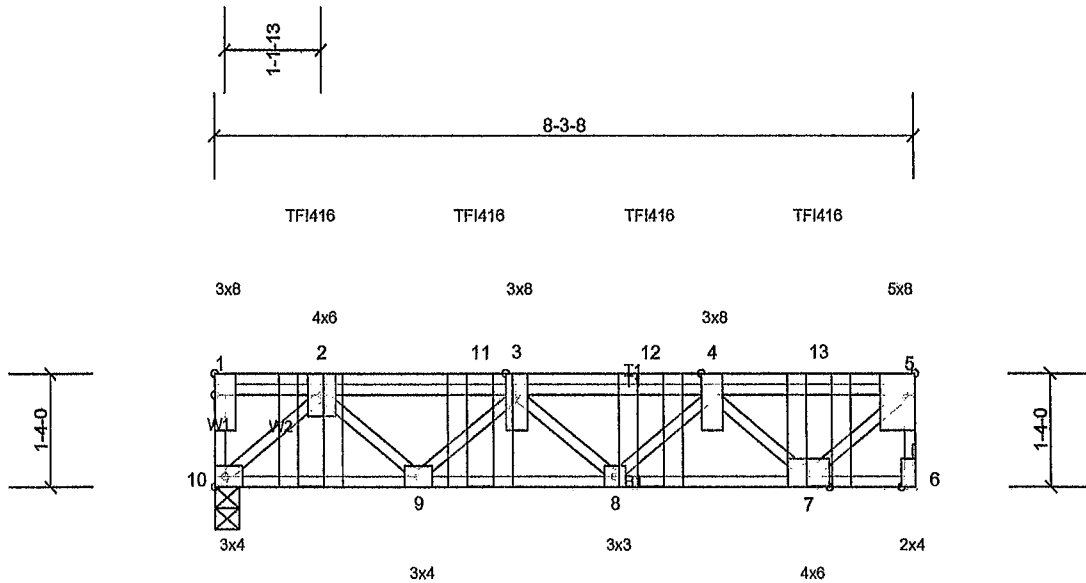
Job 1025-005	Truss F14	Truss Type Floor Girder	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1/26.5

Plate Offsets (X, Y) [5 0-3-0,Edge], [6.0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40 0	Plate Grip DOL	1 00	TC	Vert(LL)	-0 03	8-9	>999	360	MT20	244/190
TCDL	10 0	Lumber DOL	1 00	BC	Vert(CT)	-0 05	8-9	>999	240		
BCLL	0 0	Rep Stress Incr	NO	WB	Horz(CT)	0 02	6	n/a	n/a		
BCDL	5 0	Code	FBC2023/TPI2014	Matrix-P						Weight: 55 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (lb/size) 6=1226/ Mechanical,
 10=1214/0-3-8, (min 0-1-8)

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

TOP CHORD 5-6=-1219/0, 2-11=-1780/0, 3-11=-1780/0,
 3-12=-2145/0, 4-12=-2145/0, 4-13=-1022/0,
 5-13=-1022/0
 BOT CHORD 9-10=0/1242, 8-9=0/2294, 7-8=0/1974
 WEBS 2-10=-1709/0, 2-9=0/760, 3-9=-726/0,
 4-7=-1345/0, 5-7=0/1407

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0 131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Use MiTek TF1416 (With 10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-12 from the left end to 7-1-12 to connect truss(es) F03 (1 ply 2x4 SP) to front face of top chord
- 4) Fill all nail holes where hanger is in contact with lumber
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced) Lumber Increase=1 00,
 Plate Increase=1 00
 Uniform Loads (lb/ft)
 Vert: 6-10=-10, 1-5=-100
 Concentrated Loads (lb)
 Vert: 2=-385 (F), 11=-385 (F), 12=-385 (F), 13=-385 (F)

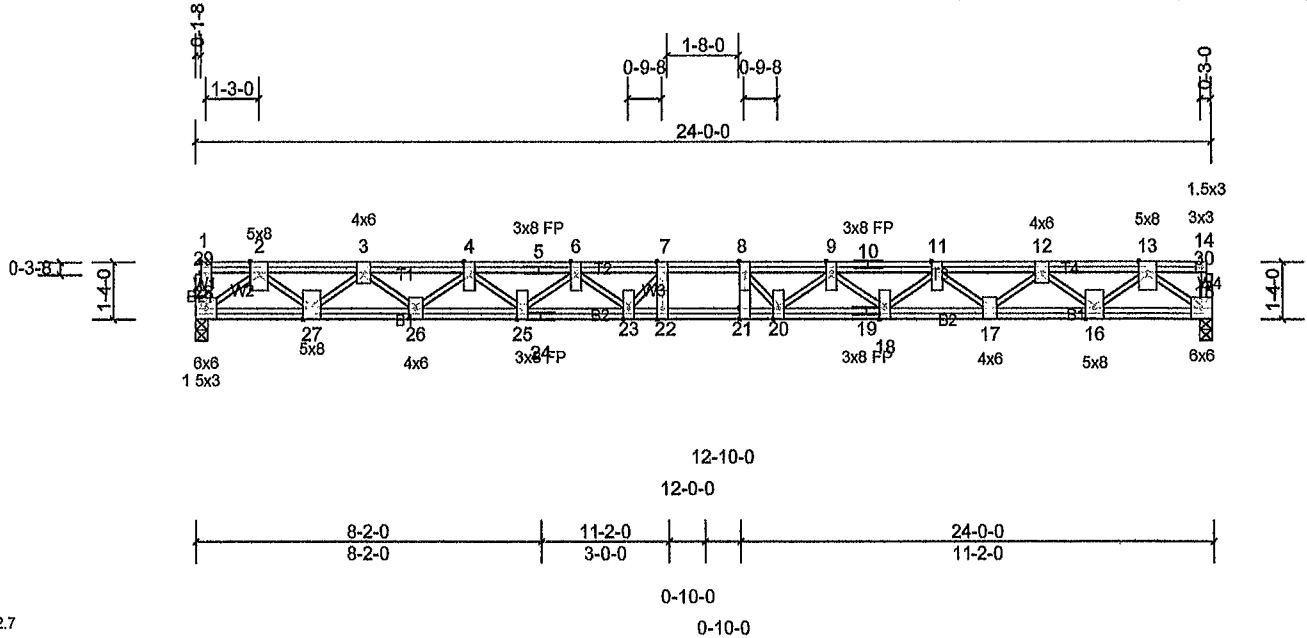
Job 1025-005	Truss F16	Truss Type Floor	Qty 5	Ply 1	Job Reference (optional)
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Scale = 1.52.7

Plate Offsets (X, Y) [21 0-3-0,Edge], [29 0-1-8,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40	Plate Grip DOL	1 00	TC	Vert(LL)	-0 32	21-22	>893	360	MT20	244/190
TCDL	10	Lumber DOL	1 00	BC	Vert(CT)	-0 44	21-22	>650	240		
BCLL	0	Rep Stress Incr	YES	WB	Horz(CT)	0 05	15	n/a	n/a		
BCDL	5	Code	FBC2023/TPI2014	Matrix-S						Weight: 188 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No 2(flat)
 BOT CHORD 2x4 SP No 2(flat)
 WEBS 2x4 SP No 2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (lb/size) 15=866/0-3-8, (min. 0-1-8),
 28=866/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-1790/0, 3-4=-3132/0, 4-5=-4051/0,
 5-6=-4051/0, 6-7=-4560/0, 7-8=-4662/0,
 8-9=-4560/0, 9-10=-4051/0, 10-11=-4051/0,
 11-12=-3132/0, 12-13=-1790/0

BOT CHORD 27-28=0/1061, 26-27=0/2560, 25-26=0/3688,
 24-25=0/4396, 23-24=0/4396, 22-23=0/4662,
 21-22=0/4662, 20-21=0/4662, 19-20=0/4396,
 18-19=0/4396, 17-18=0/3688, 16-17=0/2560,
 15-16=0/1061

WEBS 2-28=-1311/0, 2-27=0/967, 3-27=-1019/0,
 3-26=0/758, 4-26=-735/0, 4-25=0/481,
 6-25=-456/0, 6-23=-22/386, 7-23=-434/162,
 13-15=-1311/0, 13-16=0/967, 12-16=-1019/0,
 12-17=0/758, 11-17=-735/0, 11-18=0/481,
 9-18=-456/0, 9-20=-22/386, 8-20=-434/162

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x8 (||) MT20 unless otherwise indicated
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0 131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

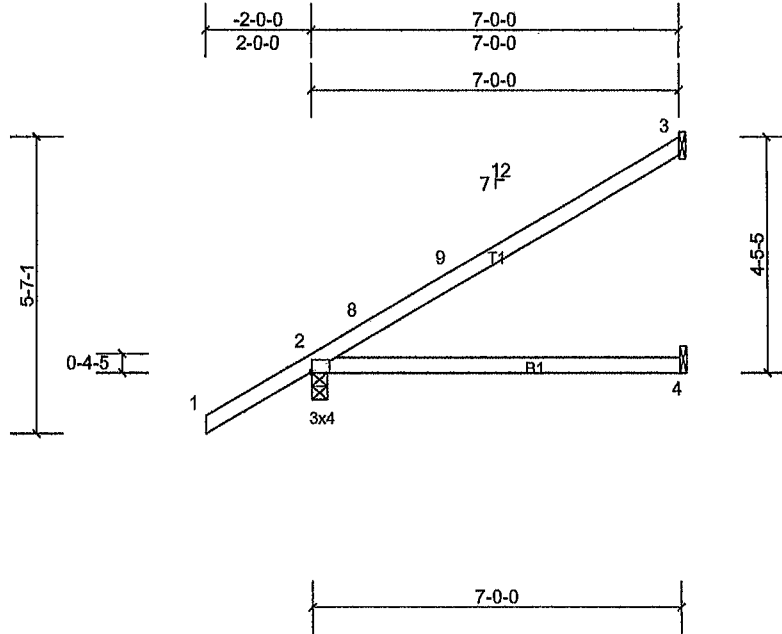
Job 1025-005	Truss J01	Truss Type Jack-Open	Qty 28	Ply 1	Job Reference (optional)
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Scale = 1.42.6

Plate Offsets (X, Y) [2:Edge,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 57	Vert(LL)	0 09	4-7	>939	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 50	Vert(CT)	-0.21	4-7	>403	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	3	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) 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

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=415/0-3-8, (min. 0-1-8), 3=182/
Mechanical, 4=79/ Mechanical
Max Horiz 2=165 (LC 12)
Max Uplift 2=-56 (LC 12), 3=-65 (LC 12)
Max Grav 2=415 (LC 1), 3=183 (LC 17),
4=124 (LC 3)

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

TOP CHORD 2-8=-312/74

NOTES

- 1) Wind ASCE 7-22; 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, Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 6-11-4 zone; cantilever left and right
exposed, end vertical left and right exposed, C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom chord
live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 65 lb uplift at joint
3 and 56 lb uplift at joint 2.

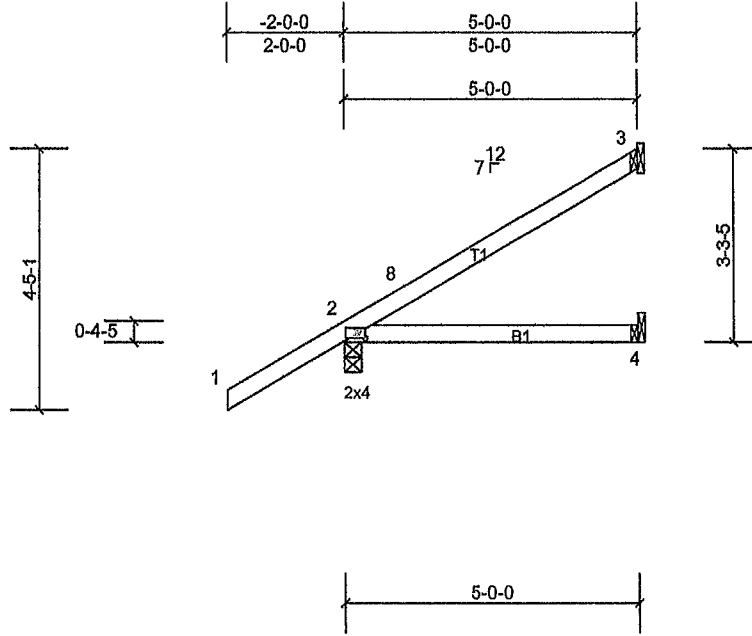
Job 1025-005	Truss J02	Truss Type Jack-Open	Qty 6	Ply 1	Job Reference (optional)
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Scale = 1/38.2

Plate Offsets (X, Y) [2:0-1-7,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS						Weight. 20 lb	FT = 20%

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

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

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

7) 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

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=342/0-3-8, (min. 0-1-8), 3=121/
Mechanical, 4=52/ Mechanical
Max Horiz 2=132 (LC 12)
Max Uplift 2=-66 (LC 12), 3=-41 (LC 12)
Max Grav 2=342 (LC 1), 3=122 (LC 17), 4=87
(LC 3)

FORCES (lb) - Max Comp./Max. Ten. - All forces 250
(lb) or less except when shown
TOP CHORD 2-8=-290/87

NOTES

- 1) Wind. ASCE 7-22; 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, Enclosed,
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 4-11-4 zone; cantilever left and right
exposed, end vertical left and right exposed, C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom chord
live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 41 lb uplift at joint
3 and 66 lb uplift at joint 2.

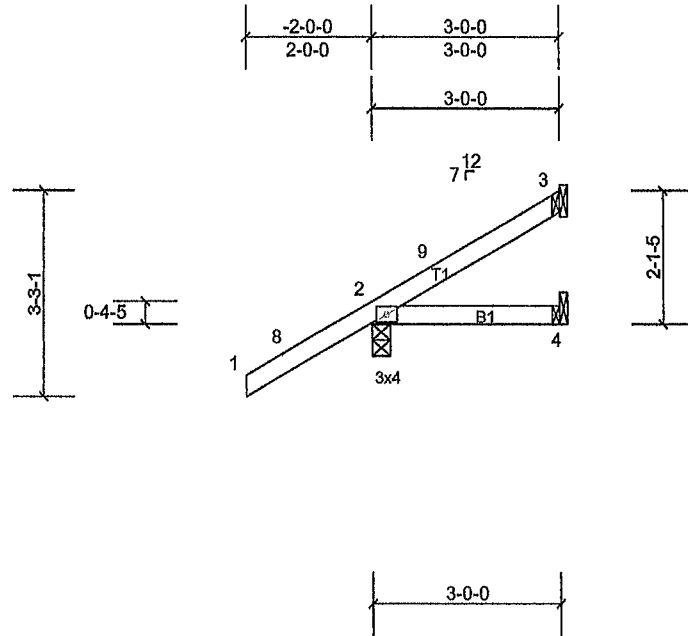
Job 1025-005	Truss J03	Truss Type Jack-Open	Qty 7	Ply 1	Job Reference (optional)
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Scale = 1/35.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 35	Vert(LL)	-0 01	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 09	Vert(CT)	-0 01	4-7	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=278/0-3-8, (min 0-1-8), 3=57/ Mechanical, 4=19/ Mechanical
Max Horiz 2=99 (LC 12)
Max Uplift 2=-84 (LC 12), 3=-15 (LC 12)
Max Grav 2=278 (LC 1), 3=59 (LC 17), 4=47 (LC 3)

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

NOTES

- 1) Wind ASCE 7-22; 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, Enclosed; MVFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3 and 84 lb uplift at joint 2.

LOAD CASE(S) Standard

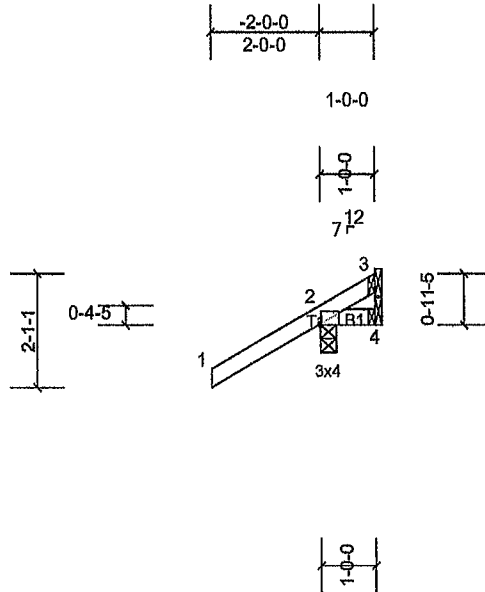
Job 1025-005	Truss J04	Truss Type Jack-Open	Qty 7	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, FL, Jason DeGross

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1-0-0



Scale = 1.41:1

Plate Offsets (X, Y) [2.Edge,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 35	Vert(LL)	0 00	7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 09	Vert(CT)	0 00	7	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No 2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS (lb/size) 2=281/0-3-8, (min. 0-1-8), 3=-29/
Mechanical, 4=-53/ Mechanical
Max Horiz 2=67 (LC 12)
Max Uplift 2=-149 (LC 12), 3=-29 (LC 1),
4=-53 (LC 1)
Max Grav 2=281 (LC 1), 3=31 (LC 12), 4=51
(LC 12)

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

NOTES

- 1) Wind ASCE 7-22, 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, Enclosed,
MWFRS (directional) and C-C Zone3 zone, cantilever left
and right exposed, end vertical left and right exposed; C-
C for members and forces & MWFRS for reactions
shown, Lumber DOL=1 60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom chord
live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 29 lb uplift at joint
3, 149 lb uplift at joint 2 and 53 lb uplift at joint 4

LOAD CASE(S) Standard

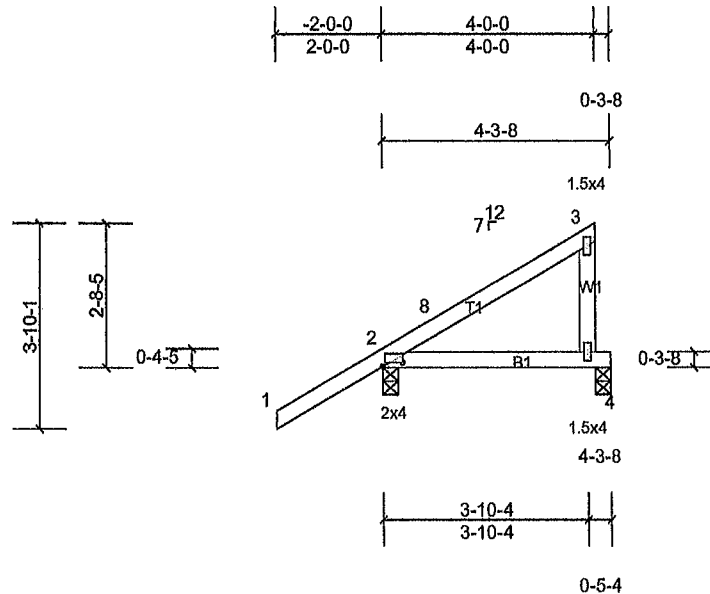
Job 1025-005	Truss M01	Truss Type Monopitch	Qty 8	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGroff

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MITek Industries, Inc. Tue Oct 14 14:00:45

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4-3-8



Scale = 1.42 2

Plate Offsets (X, Y). [2 0-4-8,0-0-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 39	Vert(LL)	-0 01	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 13	Vert(CT)	-0 02	4-7	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 20 lb	FT = 20%

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

7) 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

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=305/0-3-8, (min. 0-1-8),
4=123/0-3-8, (min. 0-1-8)
Max Horiz 2=138 (LC 12)
Max Uplift 2=88 (LC 12), 4=33 (LC 12)
Max Grav 2=305 (LC 1), 4=147 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250
(lb) or less except when shown
TOP CHORD 2-8=-309/109

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind ASCE 7-22, 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, Partially Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 3-10-4 zone; cantilever left and right exposed, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 88 lb uplift at joint 2.

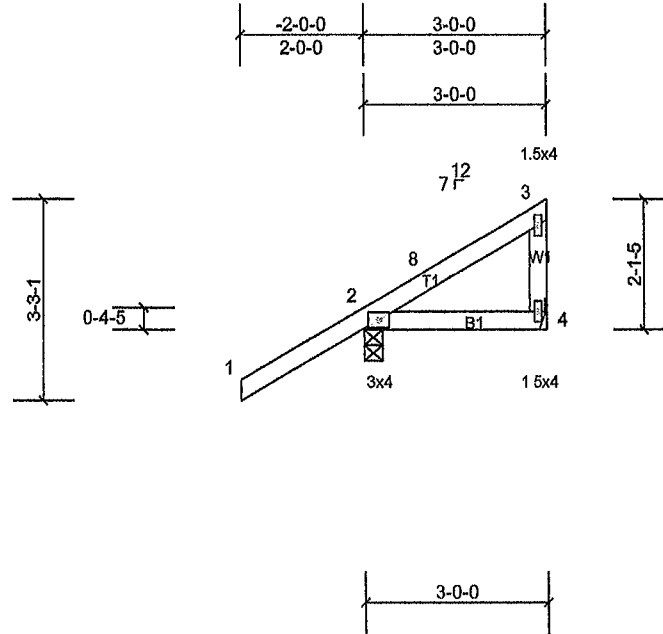
Job 1025-005	Truss M03	Truss Type Monopitch	Qty 8	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGross

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Scale = 1/36.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS (lb/size) 2=276/0-3-8, (min 0-1-8), 4=72/
 Mechanical
 Max Horiz 2=98 (LC 12)
 Max Uplift 2=85 (LC 12)
 Max Grav 2=276 (LC 1), 4=76 (LC 17)

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

TOP CHORD 2-8=-280/103

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7-22; 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, Enclosed,
 MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
 Zone1 1-0-0 to 2-10-4 zone; cantilever left and right
 exposed, end vertical left exposed; C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord
 live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 85 lb uplift at joint
 2

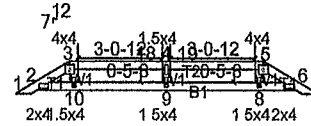
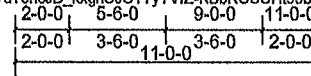
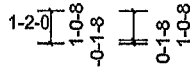
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Mayo Truss, Mayo, Fl, Jason DeGross

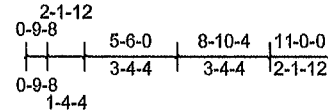
Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Tue Oct 14 14:00:45

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Scale = 1/80.4



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1 25	TC	0 14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 08	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 02	Horz(CT)	0 00	15	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 33 lb	FT = 20%

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 9-4-15.

(lb) - Max Horiz 2=20 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 2, 6, 8, 9, 10
 Max Grav All reactions 250 (lb) or less at joint
 (s) 2, 6, 8, 10 except 9=309 (LC 23).

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

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, 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, Enclosed;
 MWFRS (directional) and C-C Zone3 0-3-8 to 2-0-0,
 Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 9-0-0, Zone3
 9-0-0 to 10-8-8 zone; cantilever left and right exposed,
 end vertical left and right exposed; C-C for members and
 forces & MWFRS for reactions shown, Lumber
 DOL=1 60 plate grip DOL=1 60
- Truss designed for wind loads in the plane of the truss
 only For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1
- Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 4-0-0 oc.
- 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
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 100 lb uplift at joint
 (s) 2, 6, 10, 8, 9, 2, 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
- See Standard Industry Piggyback Truss Connection
 Detail for Connection to base truss as applicable, or
 consult qualified building designer

LOAD CASE(S) Standard

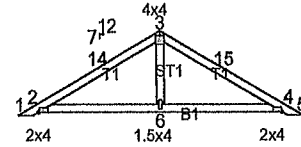
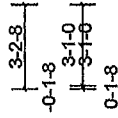
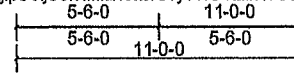
Job 1025-005	Truss PB03	Truss Type Piggyback	Qty 5	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, Fl, Jason DeGroff

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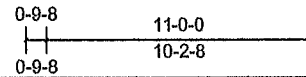


Plate Offsets (X, Y) [2 0-0-4,Edge], [4 0-0-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 04	Horz(CT)	0 00	11	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 37 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2
 OTHERS 2x4 SP No.2

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

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=216/9-4-15, (min 0-1-8),
 4=216/9-4-15, (min 0-1-8),
 6=381/9-4-15, (min 0-1-8)
 Max Horiz 2=-60 (LC 10)
 Max Uplift 2=-38 (LC 12), 4=-38 (LC 12)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7-22; 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, Enclosed;
 MWFRS (directional) and C-C Zone3 0-3-8 to 3-3-8,
 Zone1 3-3-8 to 5-6-0, Zone2 5-6-0 to 9-8-8, Zone1 9-8-8
 to 10-8-8 zone, cantilever left and right exposed , end
 vertical left and right exposed, C-C for members and
 forces & MWFRS for reactions shown, Lumber
 DOL=1.60 plate grip DOL=1 60
- 3) Truss designed for wind loads in the plane of the truss
 only For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1
- 4) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10 0 psf bottom chord
 live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20 0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 100 lb uplift at joint
 (s) 2, 4, 2, 4.
 - 10) 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
 - 11) See Standard Industry Piggyback Truss Connection
 Detail for Connection to base truss as applicable, or
 consult qualified building designer
- LOAD CASE(S)** Standard

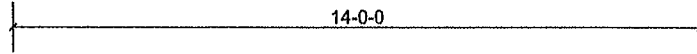
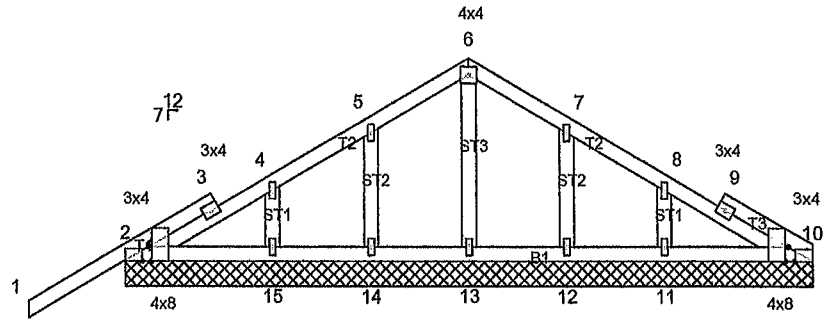
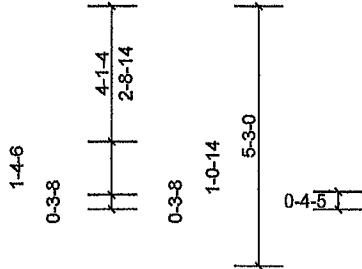
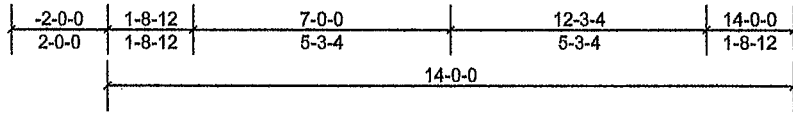
Job 1025-005	Truss T01GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Mayo Truss, Mayo, FI, Jason DeGross

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Scale = 1.46.7

Plate Offsets (X, Y). [2-0-3-8,Edge], [2-0-1-9,Edge], [10-0-3-8,Edge], [10-0-1-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0 00	10	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight. 69 lb	FT = 20%

LUMBER

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

BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

9) * This truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 14, 12, 11, 2.

11) 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

LOAD CASE(S) Standard

REACTIONS All bearings 14-0-0.

(lb) - Max Horiz 2=91 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11, 12, 14
 Max Grav All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15 except 2=274 (LC 1)

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

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft, eave=2ft; Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1 5x4 (I) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.