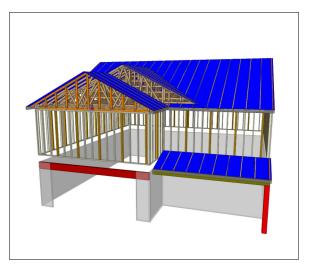


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

Builder: DR Horton Inc

Model: 37 Mason Ridge -Galen - E



THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.

2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.

3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.

4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.

5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.

6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.

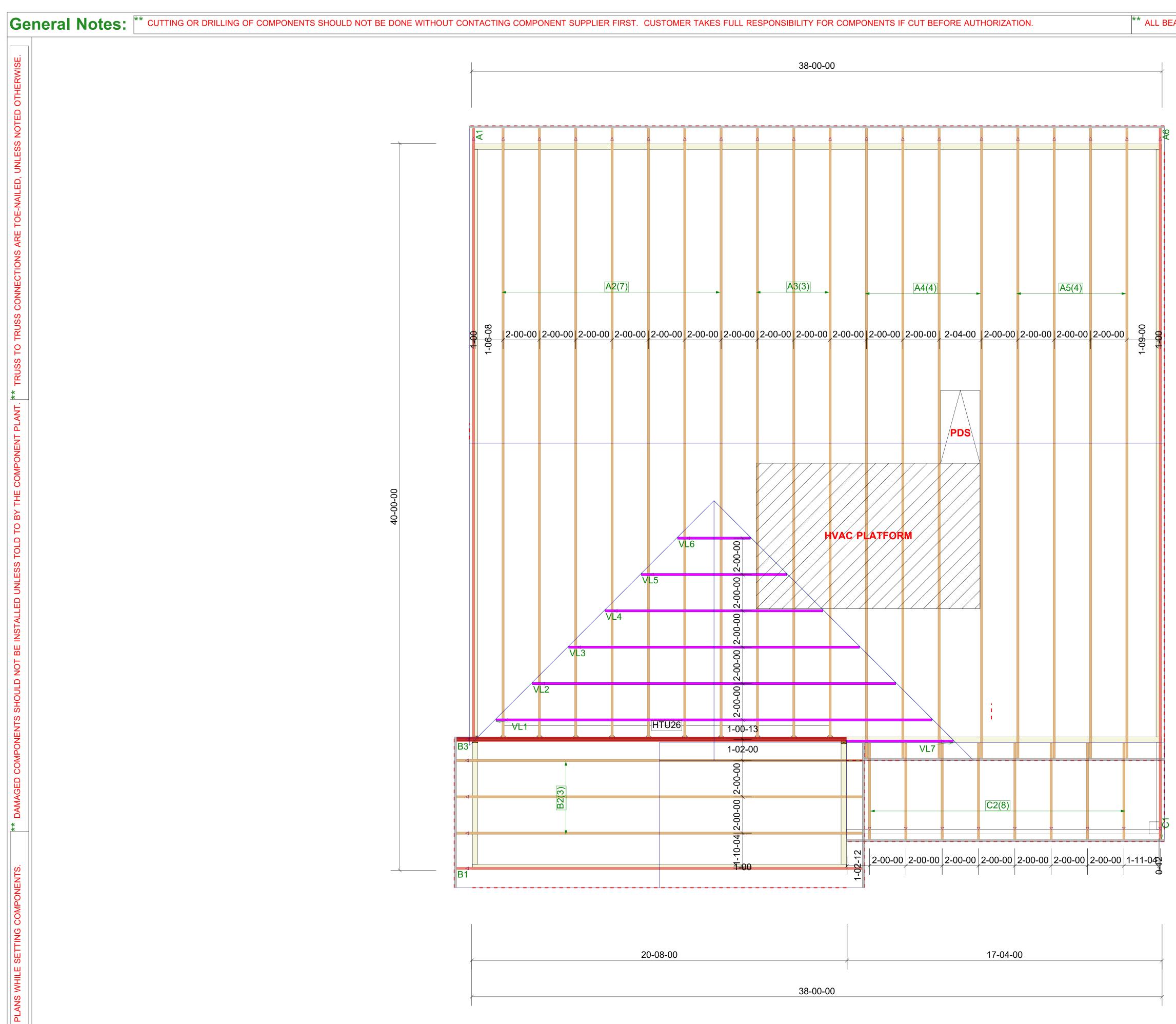
7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.

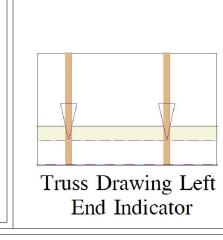
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By: _____

Date: _____





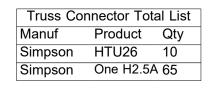
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Cale:	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design 00/00 And the specification of the building designer. See Individual design sheets for 00/00
i.	each truss design identified on the placement drawing. The building designer 0 0 0 0 0 is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The disign of the tuss support structure including headers, beams, walls, and columns is the responsibility of the
Roof Truss Layout	Madison, WI 53179 Madison, WI 53179 Madison, WI 53179







RE: 25050084 37 Mason Ridge - Galen E - Roof Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:Customer: DR Horton IncProject Name:25050084Lot/Block: 37Model:Galen EAddress:Subdivision:Mason RidgeCity:State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.7 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	169138336	A1	10/25/2024
2	169138337	A2	10/25/2024
3	169138338	A3	10/25/2024
4	169138339	A4	10/25/2024
5	169138340	A5	10/25/2024
6	l69138341	A6	10/25/2024
7	169138342	B1	10/25/2024
8	169138343	B2	10/25/2024
9	169138344	B3	10/25/2024
10	169138345	C1	10/25/2024
11	169138346	C2	10/25/2024
12	169138347	VL1	10/25/2024
13	169138348	VL2	10/25/2024
14	169138349	VL3	10/25/2024
15	169138350	VL4	10/25/2024
16	169138351	VL5	10/25/2024
17	169138352	VL6	10/25/2024
18	169138353	VL7	10/25/2024

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025

North Carolina COA: C-0844

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

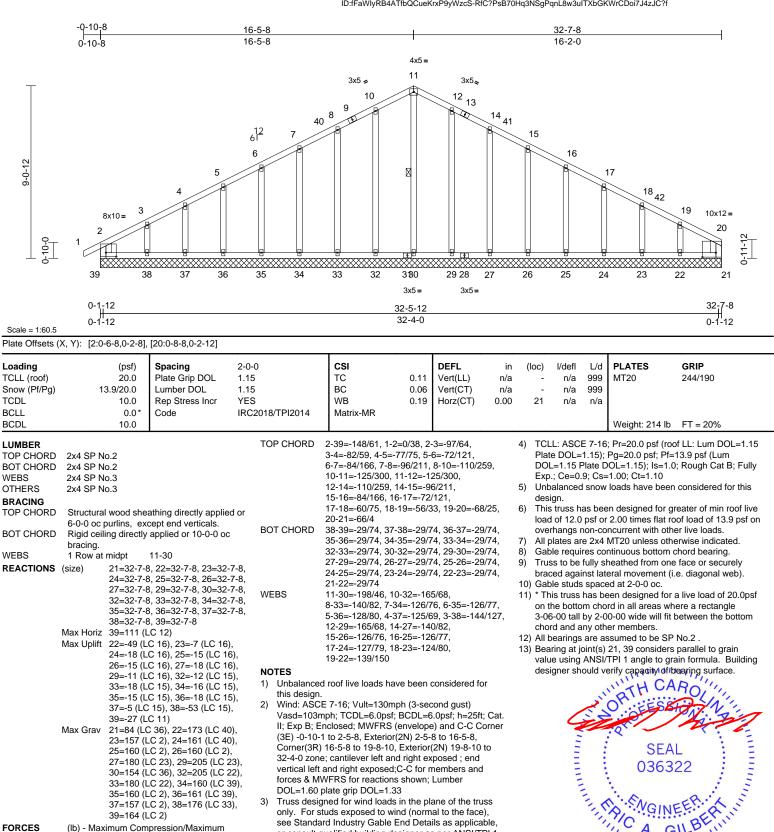


Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A1	Common Supported Gable	1	1	Job Reference (optional)	169138336

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:37 ID:fFaWlyRB4ATfbQCueKrxP9yWzcS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



25=160 (LC 2), 26=160 (LC 2), 27=180 (LC 23), 29=205 (LC 23), 30=154 (LC 36), 32=205 (LC 22), 33=180 (LC 22), 34=160 (LC 39), 35=160 (LC 2), 36=161 (LC 39), 37=157 (LC 2), 38=176 (LC 33), 39=164 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

Continued on page 2 WARNING

DOL=1.60 plate grip DOL=1.33 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

32-4-0 zone; cantilever left and right exposed ; end

vertical left and right exposed;C-C for members and

forces & MWFRS for reactions shown; Lumber

C

036322

GI

October 25,2024

China China

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A1	Common Supported Gable	1	1	Job Reference (optional)	169138336

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 39, 12 lb uplift at joint 32, 18 lb uplift at joint 33, 16 lb uplift at joint 34, 15 lb uplift at joint 35, 18 lb uplift at joint 36, 5 lb uplift at joint 37, 53 lb uplift at joint 38, 11 lb uplift at joint 29, 18 lb uplift at joint 27, 15 lb uplift at joint 26, 15 lb uplift at joint 25, 18 lb uplift at joint 24, 7 lb uplift at joint 23 and 49 lb uplift at joint 22.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:37 ID:fFaWlyRB4ATfbQCueKrxP9yWzcS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

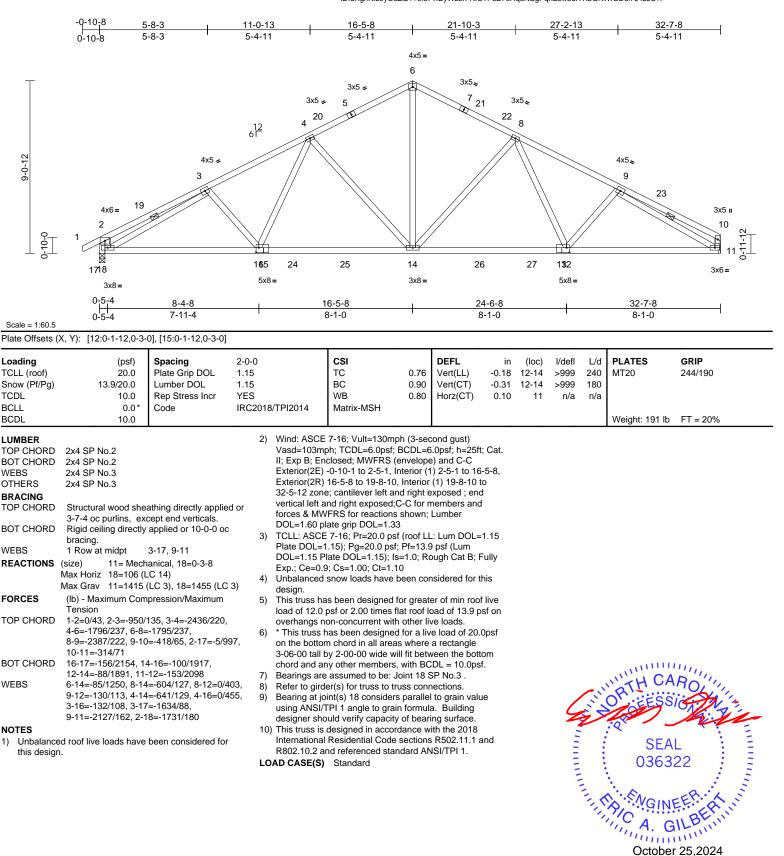
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A2	Common	7	1	Job Reference (optional)	169138337

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

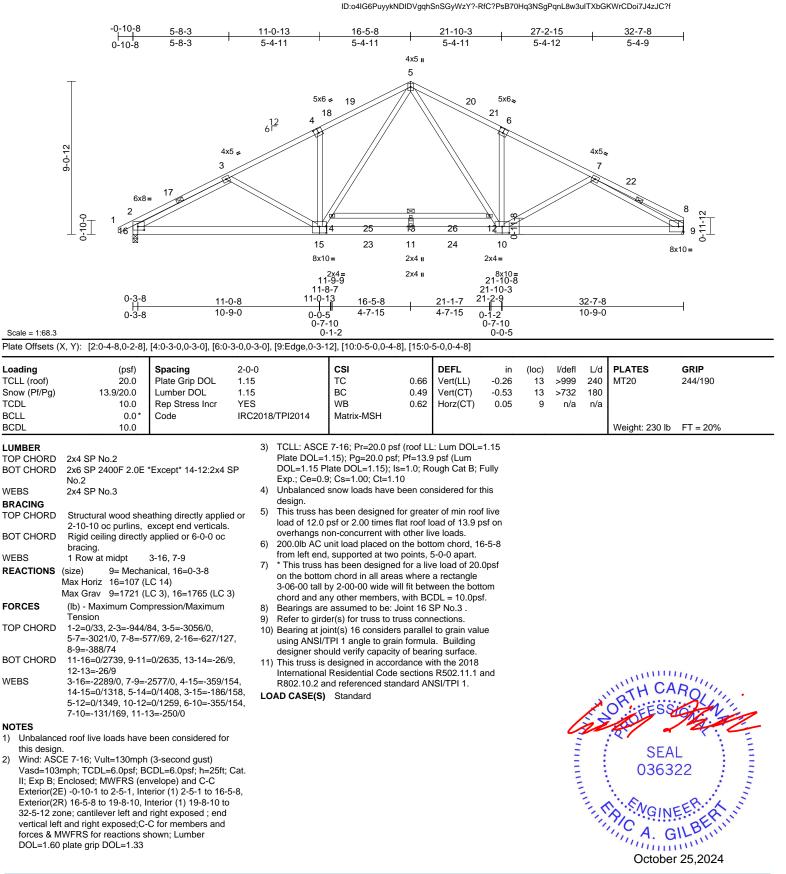


818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A3	Common	3	1	Job Reference (optional)	169138338

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:38

Page: 1



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A MITek Affilia 818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A4	Common	4	1	Job Reference (optional)	169138339

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Thu Oct 24 09:41:38 ID:Vug1G0_P2nIdhmcORu?GUqyWzRR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

	-0-10-8	5-8-3	11-0-13		6-5-8	21-10-3		27-2			32-11-0	33-9-8
	0-10-8	5-8-3	5-4-11	5	5-4-11	5-4-11	1	5-4	-11	1	5-8-3	0-10-8
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				2x4 =	2x4 I	6x8=	4x8= 21-10-3					
	0-3-8	11.0	10	11-9-9 11-8 ₋ 7		2	1-2-9			~ ~ ~ ~		
	0-3-8 	<u>11-0-</u> 10-9			<u>16-1-8</u> 16-5-8 4-3-15 0-4-0 2	21-1-7 -8-0 1-11-1				32-11 11-0-		
	0-3-8	10-8	-5	0-7-10 0-1-2	4-3-13 0-4-0 2	0)-1-2			11-0-	15	
Scale = 1:66.4		<u></u>				1	0-7-10					
ate Offsets (X, Y):	[2:0-4-8,0-2-8],	[4:0-3-0,0-3-0], [6:0	-3-0,0-3-0], [9:Edge	e,0-2-13j								
bading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83		-0.29	14	>999	240	MT20	244/190
now (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.90		-0.60		>658	180	MT20HS	187/143
CDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	9	n/a	n/a		
CLL CDL	0.0* 10.0	Code	IRC2018/TPI201	14 Matri	x-MSH						Weight: 227 lb	ET - 20%
JUL	10.0										weight: 227 lb	FI = 20%

BOT Exterior(2E) -0-10-1 to 2-5-7, Interior (1) 2-5-7 to 16-5-8, No.2, 12-9:2x6 SP No.2 WEBS 2x4 SP No.3 Exterior(2R) 16-5-8 to 19-9-0. Interior (1) 19-9-0 to 33-9-1 zone; cantilever left and right exposed ; end SLIDER Right 2x4 SP No.3 -- 2-6-0 vertical left and right exposed;C-C for members and BRACING forces & MWFRS for reactions shown: Lumber TOP CHORD Structural wood sheathing directly applied or DOL=1.60 plate grip DOL=1.33 2-2-0 oc purlins, except end verticals. 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum bracing. DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully WEBS 1 Row at midpt 3-19 Exp.; Ce=0.9; Cs=1.00; Ct=1.10 REACTIONS 9=0-3-8, 19=0-3-8 (size) 4) Unbalanced snow loads have been considered for this Max Horiz 19=-99 (LC 13) design. Max Grav 9=1776 (LC 3), 19=1788 (LC 3) This truss has been designed for greater of min roof live 5) FORCES (lb) - Maximum Compression/Maximum load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on Tension overhangs non-concurrent with other live loads. TOP CHORD 1-2=0/33, 2-3=-945/87, 3-5=-3110/0, 6) 200.0lb AC unit load placed on the bottom chord, 16-5-8 5-7=-3093/0, 7-9=-3232/0, 9-10=0/28, from left end, supported at two points, 5-0-0 apart. 2-19 = -628/129All plates are MT20 plates unless otherwise indicated. 7) BOT CHORD 18-19=0/2768, 15-18=0/1935, 11-15=0/1935, * This truss has been designed for a live load of 20.0psf 8) 9-11=0/2813, 14-17=-51/0, 13-14=-51/0 on the bottom chord in all areas where a rectangle WEBS 3-19=-2341/0, 4-18=-360/154, 17-18=0/1321, 3-06-00 tall by 2-00-00 wide will fit between the bottom 5-17=0/1431, 3-18=-183/159, 5-13=0/1400, chord and any other members, with BCDL = 10.0psf. 11-13=0/1289, 6-11=-392/155, 9) Bearings are assumed to be: Joint 19 SP No.3, Joint 9 7-11=-223/146, 14-15=-244/0 SP No.2 10) Bearing at joint(s) 19 considers parallel to grain value NOTES using ANSI/TPI 1 angle to grain formula. Building

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

VIIIIIII IIIIIIIII SEAL 036322 G۱

(1111111) October 25,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design that the operating of the second se and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

LOAD CASE(S) Standard

designer should verify capacity of bearing surface

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A5	Common	4	1	Job Reference (optional)	169138340

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:39 ID:luFsjvljwmZxolbOyMTMXJyWzR1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 0-10-8 33-9-8 5-8-3 11-0-13 16-5-8 21-10-3 27-2-13 32-11-0 5-8-3 5-4-11 5-4-11 5-4-11 5-4-11 5-8-3 0-10-8 4x5= 5 5x6 🎜 5x6 👟 21 22 20 23 4 6 12 61 9-0-12 4x5 💋 4x5 👟 3 7 19 24 4x6= 4x6= 2 8 0-10-0 9 Ē ð 25 27 121 154 26 13 28 1617 1810 3x8= 5x8= 5x8= 3x8= 3x8= 0-5-4 32-11-0 8-4-8 16-5-8 24-6-8 32-5-12 0-5-4 7-11-4 8-1-0 8-1-0 7-11-4 0-5-4 Scale = 1:60.5 Plate Offsets (X, Y): [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [11:0-1-12,0-3-0], [14:0-1-12,0-3-0] DEFL PLATES GRIP Loading (psf) Spacing 2-0-0 CSI in (loc) l/defl L/d TCLL (roof) 20.0 Plate Grip DOL 1.15 тс 0.76 Vert(LL) -0.18 13-15 >999 240 MT20 244/190 BC Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 0.91 Vert(CT) -0.31 13-15 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.80 Horz(CT) 0.10 18 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MSH Weight: 194 lb FT = 20% BCDL 10.0 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) LUMBER

LOWIDER		-,	······································		
TOP CHORD	2x4 SP No.2		Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.		
BOT CHORD	2x4 SP No.2		II; Exp B; Enclosed; MWFRS (envelope) and C-C		
WEBS	2x4 SP No.3		Exterior(2E) -0-10-1 to 2-5-7, Interior (1) 2-5-7 to 16-5-8,		
OTHERS	2x4 SP No.3		Exterior(2R) 16-5-8 to 19-9-0, Interior (1) 19-9-0 to		
BRACING			33-9-1 zone; cantilever left and right exposed ; end		
TOP CHORD	Structural wood sheathing directly applied or		vertical left and right exposed;C-C for members and		
TOF CHORD	3-6-15 oc purlins, except end verticals.		forces & MWFRS for reactions shown; Lumber		
BOT CHORD			DOL=1.60 plate grip DOL=1.33		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc	3)	TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15		
	bracing.	- /	Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum		
WEBS	1 Row at midpt 3-16, 7-10		DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully		
	(size) 17=0-3-8, 18=0-3-8		Exp.; Ce=0.9; Cs=1.00; Ct=1.10		
	Max Horiz 17=-88 (LC 13)	4)	Unbalanced snow loads have been considered for this		
I	Max Grav 17=1467 (LC 3), 18=1467 (LC 3)	,	design.		
FORCES	(lb) - Maximum Compression/Maximum	5)	This truss has been designed for greater of min roof live		
	Tension	,	load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on		
TOP CHORD	1-2=0/43, 2-3=-956/136, 3-5=-2463/238,		overhangs non-concurrent with other live loads.		
	5-7=-2463/238, 7-8=-956/136, 8-9=0/43,	6)	* This truss has been designed for a live load of 20.0psf		
	2-16=-6/1008, 8-10=-5/1008	-,	on the bottom chord in all areas where a rectangle		
BOT CHORD	15-16=-109/2165, 13-15=-49/1929,		3-06-00 tall by 2-00-00 wide will fit between the bottom		
	11-13=-58/1929, 10-11=-114/2165		chord and any other members, with $BCDL = 10.0psf$.		SAMILING STREET
WEBS	5-13=-87/1277, 6-13=-640/129, 6-11=0/454,	7)	All bearings are assumed to be SP No.3.		
	7-11=-131/108, 4-13=-640/129, 4-15=0/454,	8)	Bearing at joint(s) 17, 18 considers parallel to grain		TH UARO M.
	3-15=-131/108, 3-16=-1654/88,	0)	value using ANSI/TPI 1 angle to grain formula. Building	N'OF	and a second second second
	7-10=-1654/89, 2-17=-1745/181,		designer should verify capacity of bearing surface.		FESS
	8-18=-1745/181	9)	This truss is designed in accordance with the 2018	1254	A IMIL
NOTES		ς,	International Residential Code sections R502.11.1 and	The second	
	d roof live loads have been considered for		R802.10.2 and referenced standard ANSI/TPI 1.	$E = F^{-1}$	SFAL =
i) unbalance					NEAL .

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

LOAD CASE(S) Standard

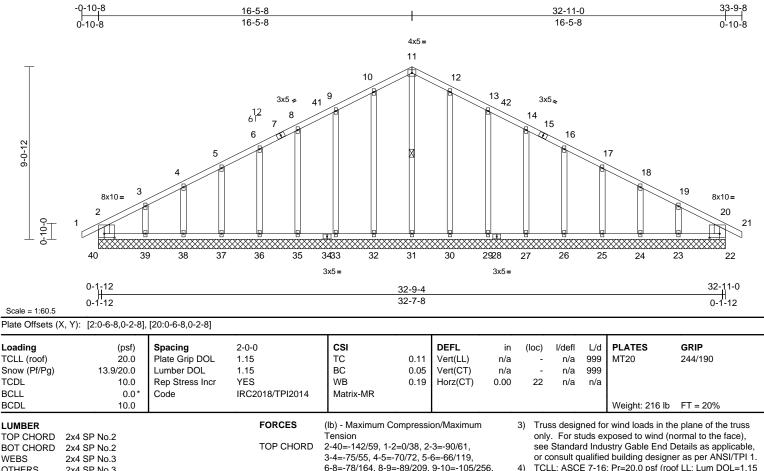


Page: 1

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Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A6	Common Supported Gable	1	1	Job Reference (optional)	169138341

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc, Thu Oct 24 09:41:39 ID:aJ8ZYmZ8VrTg3IspphNlzAyWzQg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



VVLDO	274 01 14	0.0					
OTHERS	2x4 SP N	0.3			6-8=-78/164, 8-9=-89/209, 9-10=-105/256,	4)	TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
					10-11=-122/297, 11-12=-122/297,		Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum
BRACING	-				12-13=-105/256, 13-14=-89/209,		DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully
		I wood sh	eathing directly applied or		14-16=-78/164, 16-17=-66/119,		Exp.; Ce=0.9; Cs=1.00; Ct=1.10
	6-0-0 oc	purlins, e	xcept end verticals.				
BOT CHORD	Rigid ceil	ina directl	y applied or 6-0-0 oc		17-18=-54/73, 18-19=-54/33, 19-20=-73/30,	5)	Unbalanced snow loads have been considered for this
	bracing.		,		20-21=0/38, 20-22=-141/56		design.
WEBS	0	ف ما م	11.01	BOT CHORD	39-40=-28/95, 38-39=-28/95, 37-38=-28/95,	6)	This truss has been designed for greater of min roof live
	1 Row at	mapt	11-31		36-37=-28/95, 35-36=-28/95, 33-35=-28/95,	- /	load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on
REACTIONS	(size)	22=32-1	1-0, 23=32-11-0,		32-33=-28/95, 31-32=-28/95, 30-31=-28/95,		overhangs non-concurrent with other live loads.
		24=32-1	1-0, 25=32-11-0,				0
			1-0, 27=32-11-0,		29-30=-28/95, 27-29=-28/95, 26-27=-28/95,		All plates are 2x4 MT20 unless otherwise indicated.
			1-0, 30=32-11-0,		25-26=-28/95, 24-25=-28/95, 23-24=-28/95,	8)	Gable requires continuous bottom chord bearing.
					22-23=-28/95	9)	Truss to be fully sheathed from one face or securely
			1-0, 32=32-11-0,	WEBS	11-31=-195/47, 10-32=-165/68,		braced against lateral movement (i.e. diagonal web).
		33=32-1	1-0, 35=32-11-0,		9-33=-140/82, 8-35=-126/76, 6-36=-126/77,	10) Gable studs spaced at 2-0-0 oc.
		36=32-1	1-0, 37=32-11-0,		5-37=-128/80, 4-38=-124/69, 3-39=-144/128,		
		38=32-1	1-0, 39=32-11-0,			- 11,) * This truss has been designed for a live load of 20.0psf
		40=32-1	, ,		12-30=-165/68, 13-29=-140/82,		on the bottom chord in all areas where a rectangle
	Max Horiz				14-27=-126/76, 16-26=-126/77,		3-06-00 tall by 2-00-00 wide will fit between the bottom
					17-25=-127/80, 18-24=-124/69,		chord and any other members.
	Max Uplift	· ·	.C 12), 23=-45 (LC 16),		19-23=-142/129		
		24=-7 (L	.C 16), 25=-18 (LC 16),	NATES			NAH LARO 11
		26=-15 (LC 16), 27=-15 (LC 16),	NOTES			N. B. Martin Lill
		· · · ·	LC 16), 30=-11 (LC 16),	 Unbalance 	ed roof live loads have been considered for		NOTE SALA
		· · · ·	LC 15), 33=-18 (LC 15),	this design).		AN AN ANI
		JZ=-1Z (LC 15), 33=-18 (LC 15),				STONE STONE

this design Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) 35=-16 (LC 15), 36=-15 (LC 15), Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner 39=-52 (LC 15), 40=-23 (LC 11) (3E) -0-10-1 to 2-5-8, Exterior(2N) 2-5-8 to 16-5-8, Max Grav 22=162 (LC 2), 23=174 (LC 40), Corner(3R) 16-5-8 to 19-9-0, Exterior(2N) 19-9-0 to 24=156 (LC 2), 25=161 (LC 40), 33-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and 29=180 (LC 23), 30=205 (LC 23), forces & MWFRS for reactions shown; Lumber 31=155 (LC 36), 32=205 (LC 22), DOL=1.60 plate grip DOL=1.33 33=180 (LC 22), 35=160 (LC 2), 36=160 (LC 2), 37=161 (LC 39),



Page: 1

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

37=-18 (LC 15), 38=-5 (LC 15),

26=160 (LC 2), 27=160 (LC 2),

38=156 (LC 2), 39=176 (LC 33),

40=162 (LC 2)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	A6	Common Supported Gable	1	1	Job Reference (optional)	169138341

12) All bearings are assumed to be SP No.2.

- Bearing at joint(s) 40, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 40, 3 lb uplift at joint 22, 12 lb uplift at joint 32, 18 lb uplift at joint 33, 16 lb uplift at joint 35, 15 lb uplift at joint 36, 18 lb uplift at joint 37, 5 lb uplift at joint 38, 52 lb uplift at joint 39, 11 lb uplift at joint 30, 18 lb uplift at joint 29, 15 Ib uplift at joint 27, 15 lb uplift at joint 26, 18 lb uplift at joint 25, 7 lb uplift at joint 24 and 45 lb uplift at joint 23.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:39 ID:aJ8ZYmZ8VrTg3IspphNlzAyWzQg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

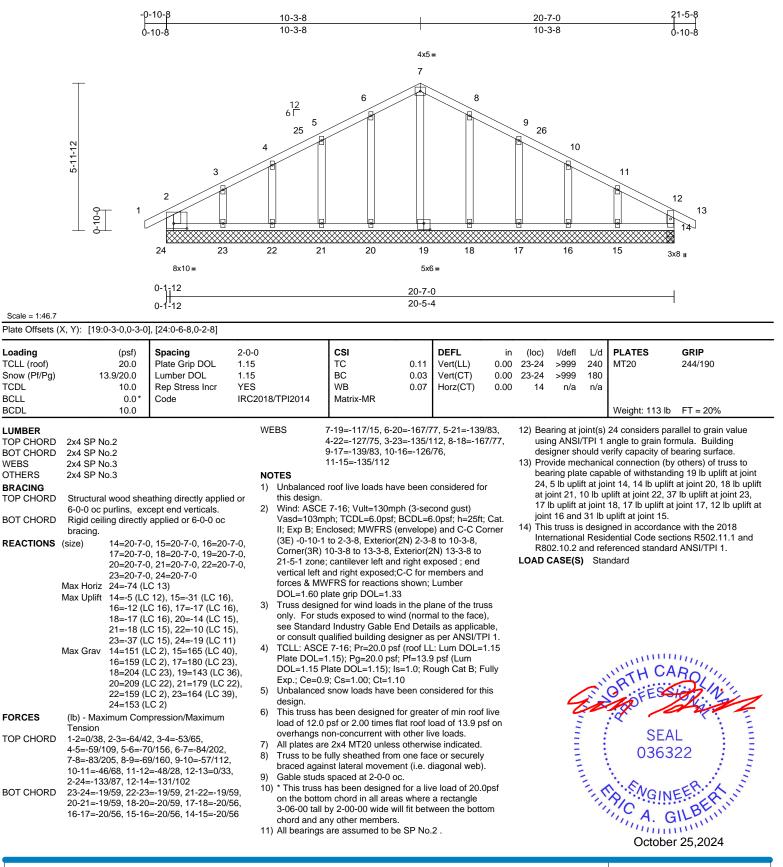
Page: 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	B1	Common	1	1	Job Reference (optional)	169138342

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:39 ID:yihlioUFIONG0axA3tCpNUyWzOC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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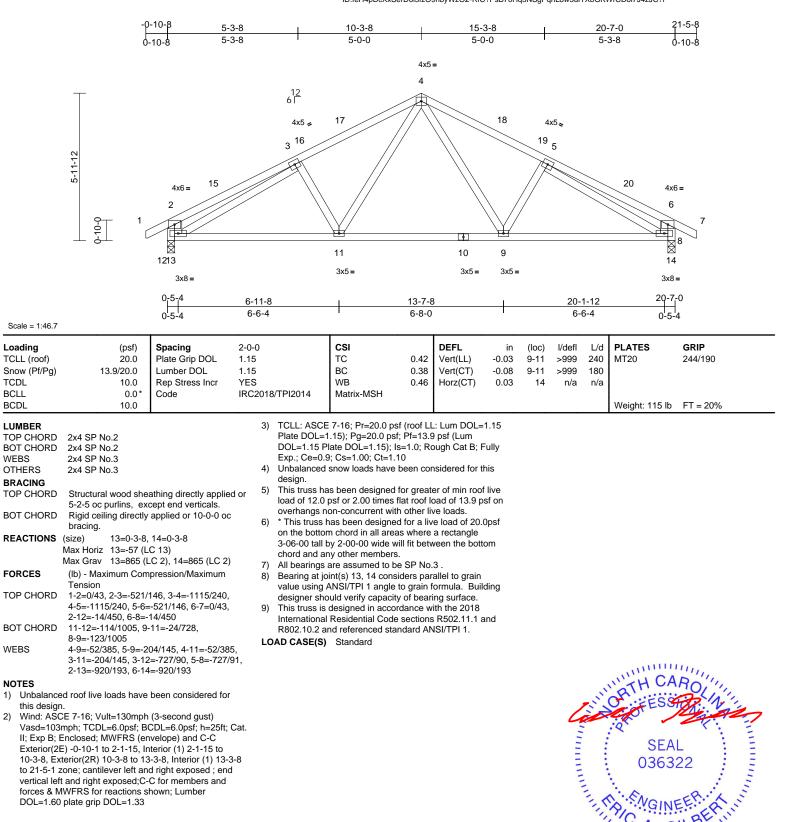


818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	B2	Common	3	1	Job Reference (optional)	169138343

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:39 ID:feH4pDcXxSerD6i5fzO9nbyWzO2-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

9 Page: 1



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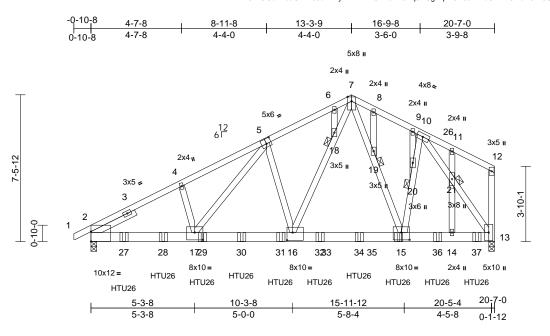
Edenton, NC 27932

A. GILD.... October 25,2024

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	B3	Common Girder	1	2	Job Reference (optional)	169138344

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:39 ID:PH46WGGu4LebO2ime9u7nByWzPn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road Edenton, NC 27932



Scale = 1:58.8

Plate Offsets ((X, Y): [2:Edge,0-6-1],	[5:0-3-0,0-3-0], [15:	0-5-0,0-4-	8], [16:0-3-8,0-	4-12], [17:0-5-0,0-	4-8]							
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.98 0.76 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.30 0.05	(loc) 16-17 16-17 13	l/defl >999 >815 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 332 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD JOINTS	2x6 SP 2400F 2.0E 2x4 SP No.3 *Excep SP No.2, 13-12:2x4 2x4 SP No.3 Left 2x4 SP No.3 2	t* 16-7,15-10,13-10: SP No.1 2-6-0 athing directly applie except end verticals	1) 2x4 ed or 2)	(0.131"x3") r Top chords c oc. Bottom chorr staggered at Web connec All loads are except if note CASE(S) ser provided to c	b be connected tog nails as follows: connected as follo ds connected as follo ds connected as follows: 2x- considered equal ed as front (F) or t ction. Ply to ply co distribute only loac wise indicated.	ws: 2x4 bllows: 2 4 - 1 row ly applie back (B) nnection	- 1 row at 0-9 x6 - 2 rows at 0-9-0 oc. d to all plies, face in the L0 s have been	OAD	9) Ga 10) * T on 3-C chr 11) Be Joi 12) Be usi de:	d of 12.0 erhangs ble studs his truss the botto 06-00 tall ord and a arings au nt 13 SF aring at j ng ANSI signer sh) psf or non-co s space has be om cho by 2-0 any oth e assu ' No.1 oint(s) /TPI 1 nould ve	2.00 times flat to nourrent with othe ed at 2-0-0 oc. een designed for a rd in all areas wh 0-00 wide will fit the re members, with med to be: Joint 1 13 considers par- angle to grain for erify capacity of b	a live load of 20.0p ere a rectangle between the bottom BCDL = 10.0psf. 2 SP 2400F 2.0E, allel to grain value mula. Building earing surface.
	19, 20, 21	C 10)	3) 4) 3)	this design. Wind: ASCE Vasd=103m	7-16; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS (oh (3-seo BCDL=6	cond gust) 6.0psf; h=25fi	t; Cat.	Inte	ernationa	al Resi	ned in accordanc dential Code sect ierenced standard	ions R502.11.1 and
FORCES	(lb) - Maximum Com Tension	pression/Maximum		and right exp	osed ; end vertica	al left and	right expos				Jan .	OFESS	Gille
TOP CHORD		116/0, 8-9=-6183/0,	5) 8/0,	Truss design only. For stu see Standard	.=1.60 plate grip E ned for wind loads uds exposed to wind Industry Gable E ualified building de	in the pl nd (norm End Deta	ane of the tru al to the face ils as applica	e), able,		4	V	SEA	•
BOT CHORD WEBS		/3406, 5-16=-1849/0 =0/6490, 7-19=0/681 =0/3768, 10-20=0/37 21=-8321/0, 6-18=-12	, 1, 731, 7)	TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.9	in the original definition of the original defin	f (roof Ll ; Pf=13.9 s=1.0; Ro	.: Lum DOL= 9 psf (Lum bugh Cat B; f	⁼1.15 Fully		LINE.		0363	EREALIN

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, recetion and bracing of trusses and truss systems, see **ANSI/TPI Quility Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	B3	Common Girder	1	2	Job Reference (optional)	169138344
Carter Components (Sanford, N	Run: 8.73 S Sep 25	2024 Print: 8	730 S Sep 2	5 2024 MiTek Industries, Inc. Thu Oct 24 09:41:39	Page: 2	

ID:PH46WGGu4LebO2ime9u7nByWzPn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Carter Components (Sanford, NC), Sanford, NC - 27332,

14) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-4 from the left end to 19-8-4 to connect truss(es) to back face of bottom chord. 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate 1) Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-7=-48, 7-12=-48, 13-22=-20 Concentrated Loads (lb)

Vert: 15=-1273 (B), 27=-1074 (B), 28=-1074 (B),

29=-1074 (B), 30=-1074 (B), 31=-1074 (B), 32=-1074 (B), 34=-1074 (B), 36=-1273 (B), 37=-1275 (B)

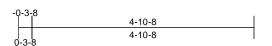
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication component of component development properties. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



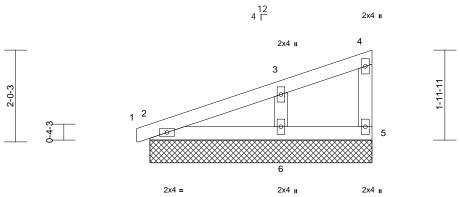
Page: 2

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	C1	Monopitch Supported Gable	1	1	Job Reference (optional)	169138345

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Thu Oct 24 09:41:40 ID:Roi51RjmSxSNkGknknPuTcyWxUX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

NOTES 1)

2)

3)

TOP CHORD

BOT CHORD WEBS

grip DOL=1.33

REACTIONS (size)

2x4 SP No 3

bracing.

Tension

3-6=-228/232

Structural wood sheathing directly applied or

2=4-10-8, 5=4-10-8, 6=4-10-8,

6=291 (LC 22), 7=128 (LC 22)

4-10-8 oc purlins, except end verticals.

7=4-10-8

2-6=-78/65, 5-6=-27/37

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-3-3 to 2-10-8, Exterior(2N) 2-10-8 to 4-8-12

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

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. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully

Exp.; Ce=0.9; Cs=1.00; Ct=1.10

Max Horiz 2=47 (LC 14), 7=47 (LC 14) Max Grav 2=128 (LC 22), 5=95 (LC 22)

(Ib) - Maximum Compression/Maximum

1-2=0/6, 2-3=-124/77, 3-4=-44/34, 4-5=-38/61

Rigid ceiling directly applied or 10-0-0 oc

Scale = 1:25.3			I									
Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
FCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%
UMBER			4) Unbalance	d snow loads have	e been cor	nsidered for t	his					
OP CHORD	2x4 SP No.2		design.									
BOT CHORD	2x4 SP No.2		Gable requ	ires continuous b	ottom chor	d bearing.						
WEBS	2x4 SP No.3		Gable stud	s spaced at 2-0-0	OC.							

4-10-8

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. All bearings are assumed to be SP No.2 .

8) ۹)

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

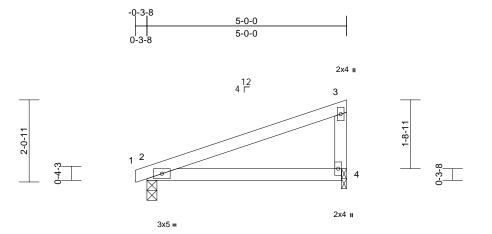


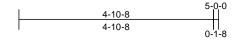
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Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	C2	Monopitch	8	1	Job Reference (optional)	169138346

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:40 ID:fvpVN1pBxgnQljVM82B8zAyWzNn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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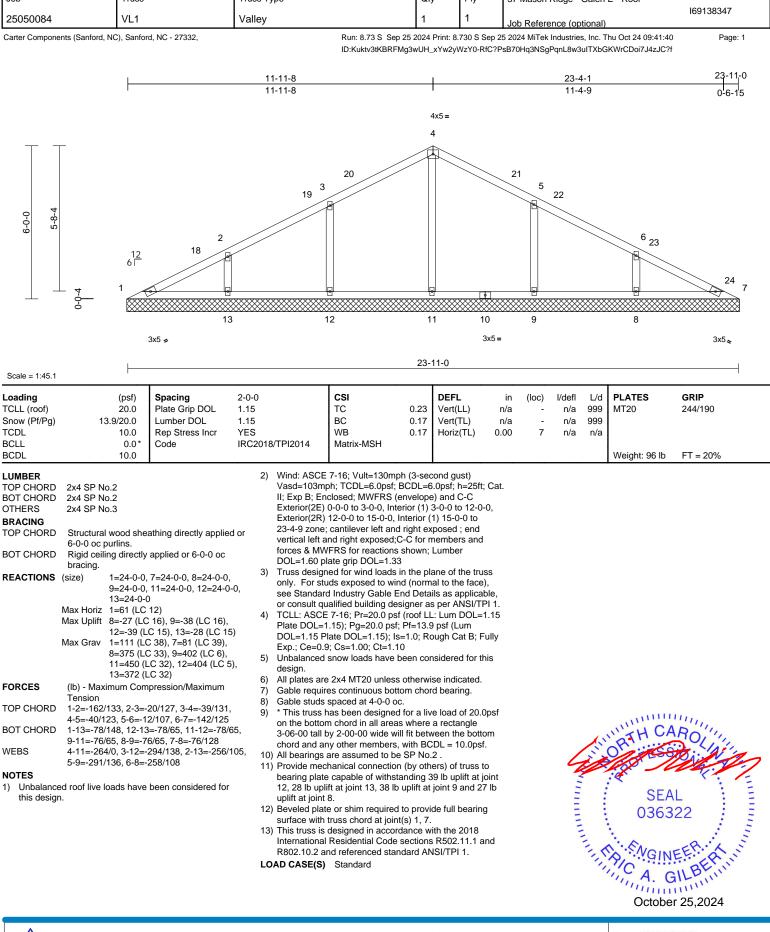
Scale = 1:28.9

		1		-i		· · · · ·					i	
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.04	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07	4-7	>853	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-0-0 oc purlins, ex Rigid ceiling directly 	cept end verticals.	using ANS designer st 7) Provide me bearing pla d or 8) One H2.5A recommenu UPLIFT at	oint(s) 4 considers /TPI 1 angle to graii ould verify capacity chanical connectior te at joint(s) 4. Simpson Strong-Ti led to connect truss t(s) 4. This connect nsider lateral forces	n formul of bear (by oth e conne to bear tion is fol	a. Building ing surface. ers) of truss ctors ing walls due	to e to					
DEACTIONS	bracing.	4 0 4 0		s designed in accord		ith the 2018						
REACTIONS	(size) 2=0-3-0, 4 Max Horiz 2=50 (LC Max Uplift 4=-7 (LC Max Grav 2=241 (LC	14) 15)	R802.10.2	al Residential Code and referenced star) Standard			and					
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension											
TOP CHORD		9, 3-4=-156/119										
BOT CHORD	2-4=-90/131											
NOTES	CE 7-16; Vult=130mph	(2 accord such)										
Vasd=10 II; Exp B; Exterior(2 4-10-4 zc vertical le forces & I DOL=1.6	Sort P-10, Vull=130/npt Enclosed; MWFRS (er 2E) -0-3-3 to 2-8-13, Int one; cantilever left and r and right exposed;C- MWFRS for reactions s 0 plate grip DOL=1.33 SCE 7-16; Pr=20.0 ps f	CDL=6.0psf; h=25ft; ivelope) and C-C erior (1) 2-8-13 to ight exposed ; end C for members and hown; Lumber								- AND	WITH CA	ROY
Plate DO DOL=1.1	L=1.15); Pg=20.0 psf; F 5 Plate DOL=1.15); Is= =0.9; Cs=1.00; Ct=1.10	Pf=13.9 psf (Lum									SEA	L
3) Unbalanc	ced snow loads have be	en considered for th	is						=		0363	22
on the bo 3-06-00 ta	ss has been designed f httom chord in all areas all by 2-00-00 wide will d any other members.	where a rectangle							COLUMNS		S. ENGIN	EERCALI
	are assumed to be: Joi	int 2 SP No.2 , Joint	4								11111	ILBLUIT



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	VL1	Valley	1	1	Job Reference (optional)	169138347



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818 Soundside Road

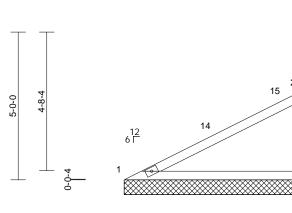
Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	VL2	Valley	1	1	Job Reference (optional)	169138348

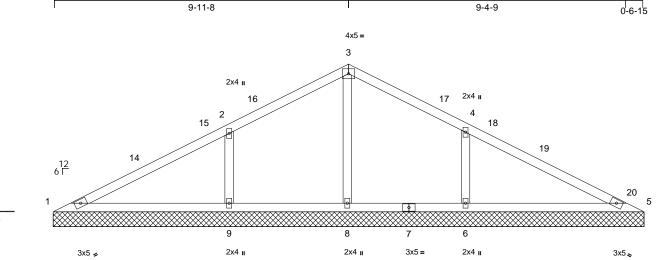
Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:40 ID:o4IG6PuyykNDIDVgqhSnSGyWzY?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

19-4-1



19-11₋0





19-11-0

9-11-8

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Scale = 1:39												-	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.41 0.30 0.19	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 75 lb	GRIP 244/190 FT = 20%
	10-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=20-0-0, 8=20-0-0, 1=51 (LC Max Horiz 1=51 (LC Max Uplift 6=-47 (LC Max Grav 1=105 (LC	, 5=20-0-0, 6=20-0-0, 9=20-0-0 12) C 16), 9=-49 (LC 15) C 38), 5=75 (LC 39), C 22), 8=469 (LC 2),	5) (6) (7) (8)	only. For stu see Standar, or consult qu TCLL: ASCE Plate DOL=' DOL=1.15 P Exp.; Ce=0.9 Unbalanced design. Gable requir Gable studs * This truss I on the botto 3-06-00 tall I chord and ar	ed for wind loads i uds exposed to wind d Industry Gable Er alified building des 7-16; Pr=20.0 psf; late DOL=1.15; Is 9; Cs=1.00; Ct=1.11 snow loads have b es continuous botte spaced at 4-0-0 oc has been designed m chord in all areas by 2-00-00 wide will by other members. are assumed to be	d (norm nd Deta signer a (roof LI Pf=13.9 =1.0; Re been col been col com chol s for a liv s where I fit betv	al to the face ils as applica s per ANSI/TI 2 psf (Lum bugh Cat B; F nsidered for the rd bearing. re load of 20.0 a rectangle veen the both	e), Ible, PI 1. 1.15 Fully his Opsf					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=-136/378, 2-3=(4-5=-115/374 1-9=-290/119, 8-9=- 5-6=-286/108 3-8=-437/58, 2-9=-3)/338, 3-4=0/332,	10 08, 12	 Provide mec bearing plate 9 and 47 lb u 9 Beveled plat surface with This truss is International 	chanical connection e capable of withsta uplift at joint 6. e or shim required truss chord at joint designed in accord Residential Code	(by oth anding 4 to provi (s) 1, 5. lance w sections	ers) of truss t l9 lb uplift at j de full bearin ith the 2018 \$ R502.11.1 a	joint g					
this desigr	ed roof live loads have n. CE 7-16; Vult=130mph		L	R802.10.2 a DAD CASE(S)	nd referenced stan Standard	dard Al	NSI/TPI 1.			L	I. I.	OPTH CA	TO INI

2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 19-4-9 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=1.33



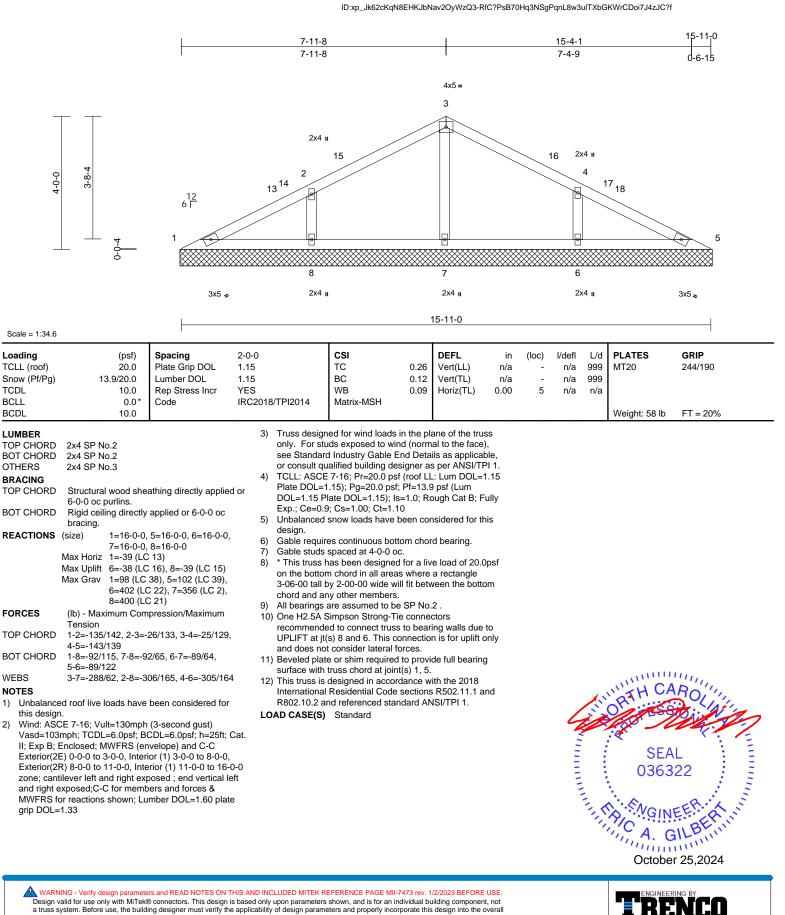
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	uss Truss Type Qty Ply		37 Mason Ridge - Galen E - Roof				
25050084	VL3	Valley	1	1	Job Reference (optional)	169138349		

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Thu Oct 24 09:41:40



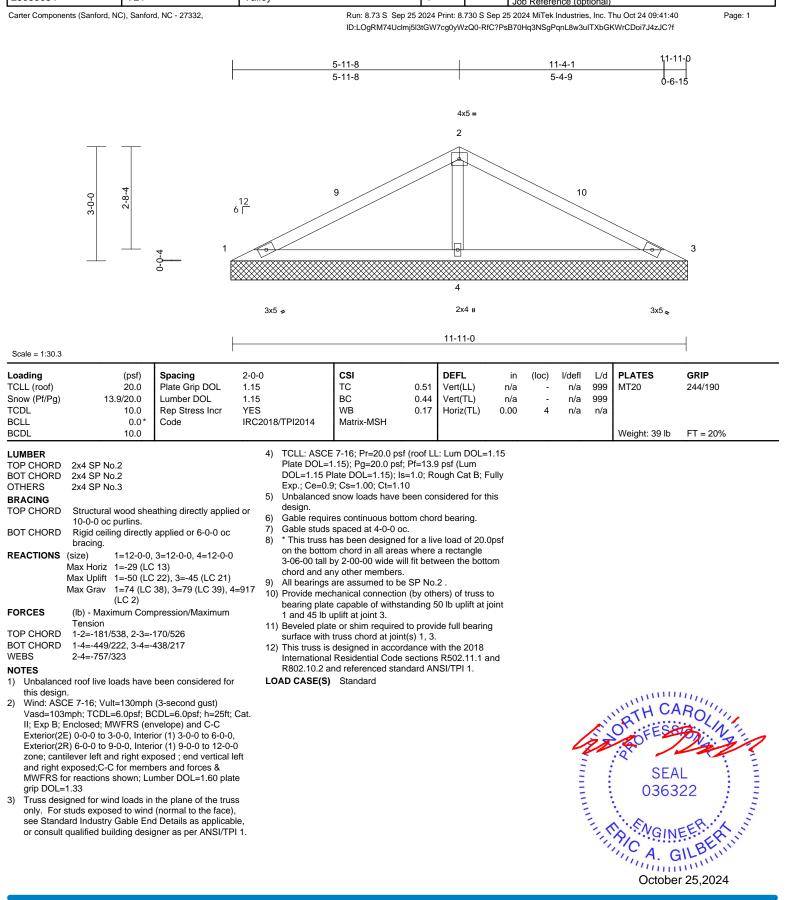
Page: 1



bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	VL4	Valley	1	1	Job Reference (optional)	169138350



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Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	VL5	Valley	1	1	Job Reference (optional)	169138351

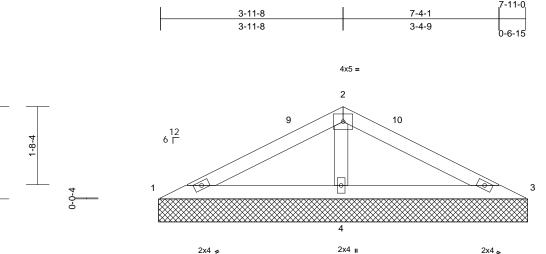
2-0-0

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:40 ID:u7lajq1rZo5w0tsEie8hNMyWyx5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-11-0



Page: 1



2x4 ≠

Scale = 1:25			I								Ι	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.22 0.23 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this desig	 2x4 SP No.2 2x4 SP No.3 Structural wood she 7-11-0 oc purlins. Rigid ceiling directly bracing. (size) 1=8-0-0, 3 Max Horiz 1=-19 (LC Max Uplift 1=-3 (LC Max Grav 1=89 (LC (LC 2) (lb) - Maximum Com Tension 1-2=-131/286, 2-3=- 1-4=-254/177, 3-4=- 2-4=-409/222 ted roof live loads have 	3=8-0-0, 4=8-0-0 C 13) 39), 3=-5 (LC 16) 21), 3=94 (LC 22), 4= npression/Maximum 117/275 243/171	Plate DOL= DOL=1.15 Exp.; Ce=0 5) Unbalanced design. 6) Gable requ 7) Gable stud 8) * This truss on the botto 3-06-00 tall chord and a 9) All bearings 10) Provide me bearing pla and 5 lb up 11) Beveled pla surface with 12) This truss i International	E 7-16; Pr=20.0 psf =1.15); Pg=20.0 psf; Plate DOL=1.15); Is .9; Cs=1.00; Ct=1.11 d snow loads have b ires continuous botts s spaced at 4-0-0 oc has been designed om chord in all areas by 2-00-00 wide wil any other members. s are assumed to be chanical connection te capable of withsta lift at joint 3. ate or shim required n truss chord at joint s designed in accorr al Residential Code and referenced stam) Standard	Pf=13.9 =1.0; Ro obeen colo om choic c. I for a liv s where Il fit betw SP No to (by oth anding 3 to provit t(s) 1, 3. dance w sections	e) psf (Lum bugh Cat B; F nsidered for the rd bearing. re load of 20.1 a rectangle ween the both .2. ers) of truss is B buplift at jo de full bearin the the 2018 is R502.11.1 a	Fully his Opsf om to pint 1					
2) Wind: AS Vasd=103 II; Exp B; Exterior(2 Zone; car and right MWFRS grip DOL:	CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B Enclosed; MWFRS (er 2E) 0-0-0 to 3-0-0, Inter 2R) 4-0-0 to 6-9-3, Inter tillever left and right exp exposed;C-C for memt for reactions shown; Lu	CDL=6.0psf; h=25ft; C nvelope) and C-C ior (1) 3-0-0 to 4-0-0, rior (1) 6-9-3 to 8-0-0 posed ; end vertical lef pers and forces & umber DOL=1.60 plate	ft						C T T T T	E.	OR FES SEA 0363	L

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. ANGIN C A. GI A. GILIN October 25,2024

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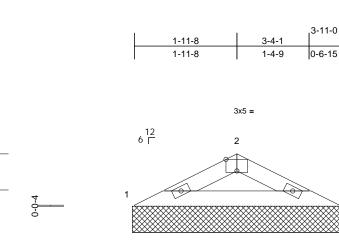
Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof				
25050084	VL6	Valley	1	1	Job Reference (optional)	169138352			

0-8-4

1-0-0

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 24 09:41:40 ID:2UWrJOrgy25kEiHtUm3WqlyWy?x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3-11-0

3

Scale = 1:22

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

- 1010 0110010 (/	X, T). [2.0-2-0,Euge]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.12 0.12 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 10 lb	GRIP 244/190 FT = 20%
FORCES TOP CHORD BOT CHORD NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103) II; Exp B; E Exterior(2E vertical left forces & M DOL=1.60 3) Truss desi only. For s see Stand or consult 4) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=(5) Unbalance design. 6) Gable requ	Max Horiz 1=-9 (LC Max Grav 1=160 (LC (lb) - Maximum Com Tension 1-2=-314/170, 2-3=- 1-3=-149/274 ed roof live loads have	applied or 10-0-0 or 3=4-0-0 11) C 2), 3=160 (LC 2) pression/Maximum 314/159 been considered for (3-second gust) CDL=6.0psf; h=25ft; welope) and C-C and right exposed ; C for members and hown; Lumber the plane of the true (normal to the face) d Details as applical gner as per ANSI/TFF roof LL: Lum DOL=' 2f=13.9 psf (Lum 1.0; Rough Cat B; F en considered for th	r c and c c c c c c c c c c c c c c c c c c c	iss has been designed totom chord in all are tall by 2-00-00 wide v d any other member ngs are assumed to b plate or shim require with truss chord at joi s is designed in acco onal Residential Cod .2 and referenced sta (S) Standard	eas where will fit betw s. be SP No. ed to provi int(s) 1, 3. ordance w e sections	a rectangle veen the botto 2 . de full bearing ith the 2018 5 R502.11.1 a	om g				SEA 0363	EEP HUU

- ign
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

October 25,2024

Job	Truss	Truss Type	Qty	Ply	37 Mason Ridge - Galen E - Roof	
25050084	VL7	Valley	1	1	Job Reference (optional)	169138353

5-10-1

Carter Components (Sanford, NC), Sanford, NC - 27332

Scale = 1:29.3 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

WFBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

WFBS

NOTES

2)

TOP CHORD

BOT CHORD

grip DOL=1.33

REACTIONS (size)

bracing.

Max Grav

Tension

4-5=-28/25

TOP CHORD

BOT CHORD

Snow (Pf/Pg)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Thu Oct 24 09:41:40 ID:Jzy8vfGOrxc4QyN4tqUNBayWywn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 I

Page: 1

2x4 ı Δ 3 2x4 II 2-11-5 2 ŝ 12 6 Г 2-11 ø 5 7 6 2x4 💋 2x4 II 2x4 🛛 2x4 ı 5-10-1 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) in (loc) Plate Grip DOL 20.0 1.15 TC 0.10 Vert(LL) n/a 999 MT20 244/190 n/a BC 13 9/20 0 1 15 0.08 Lumber DOL Vert(TL) n/a n/a 999 10.0 Rep Stress Incr YES WB 0.04 Horiz(TL) 0.00 5 n/a n/a 0.0 Code IRC2018/TPI2014 Matrix-MP 10.0 Weight: 25 lb FT = 20%TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum 2x4 SP No.2 2x4 SP No.2 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully 2x4 SP No.3 Exp.; Ce=0.9; Cs=1.00; Ct=1.10 4) Unbalanced snow loads have been considered for this 2x4 SP No.3 desian. Gable requires continuous bottom chord bearing. 5) Structural wood sheathing directly applied or Gable studs spaced at 2-0-0 oc. 6) 5-10-1 oc purlins, except end verticals. * This truss has been designed for a live load of 20.0psf 7) Rigid ceiling directly applied or 10-0-0 oc on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom 1=5-10-9, 5=5-10-9, 6=5-10-9, chord and any other members. 7=5-10-9 All bearings are assumed to be SP No.2 . 8) Max Horiz 1=78 (LC 12) Provide mechanical connection (by others) of truss to 9) Max Uplift 5=-6 (LC 12), 6=-11 (LC 15), 7=-18 bearing plate capable of withstanding 6 lb uplift at joint 5, (|C|15)18 lb uplift at joint 7 and 11 lb uplift at joint 6 1=96 (LC 2), 5=27 (LC 21), 6=120 10) Beveled plate or shim required to provide full bearing (LC 21), 7=283 (LC 21) surface with truss chord at joint(s) 1. (Ib) - Maximum Compression/Maximum This truss is designed in accordance with the 2018 11) International Residential Code sections R502.11.1 and 1-2=-173/110, 2-3=-100/68, 3-4=-51/49, R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 1-7=-107/165. 6-7=-44/48. 5-6=-44/48 2-7=-194/144, 3-6=-108/103 ORT 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 2-11-1, Interior (1) 2-11-1 to 5-8-13 zone; cantilever left and right exposed ; end vertical left SEAL and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 036322 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. GI mmm October 25,2024

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