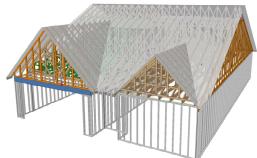


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450



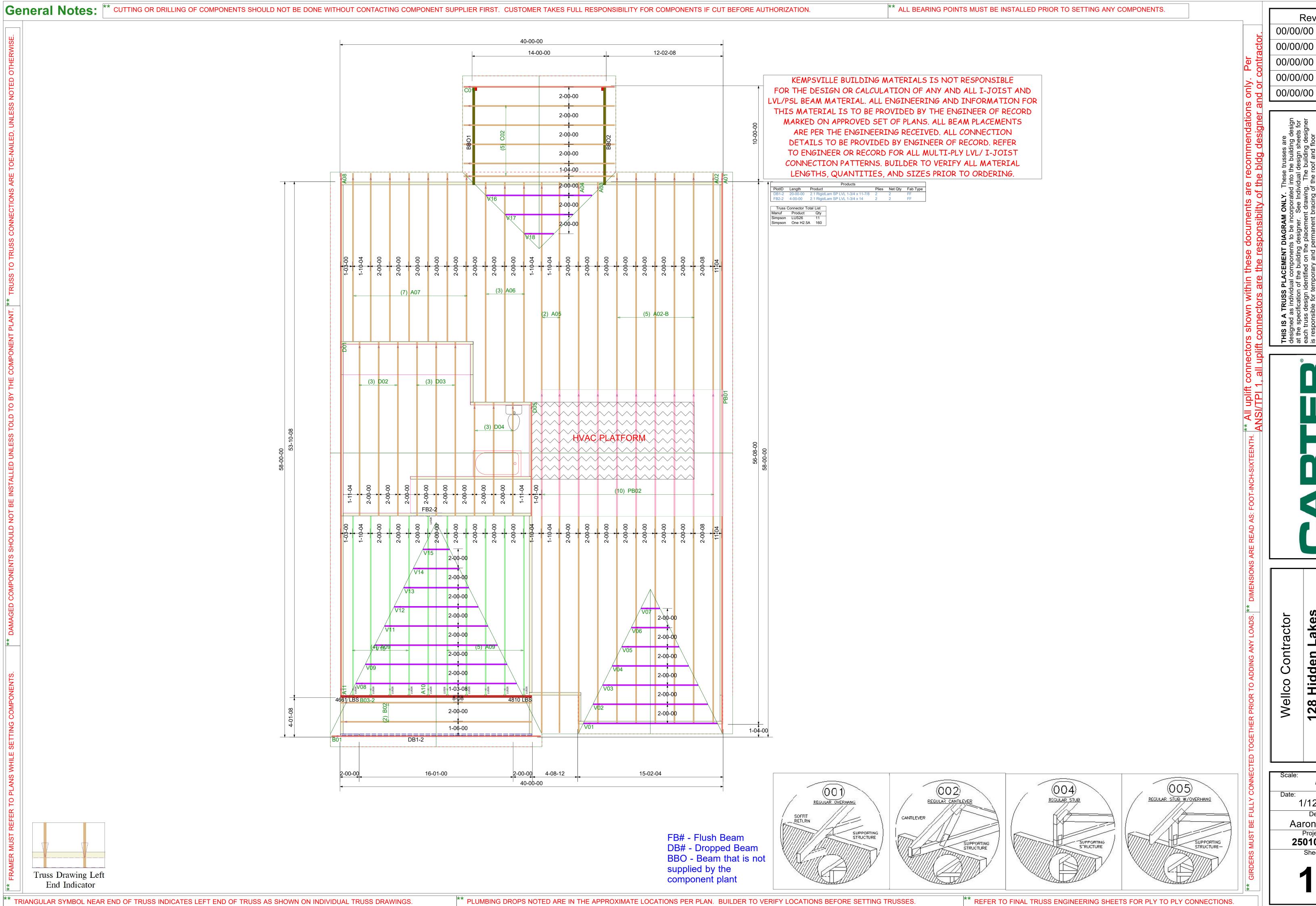




THE PLACEMENT PLAN NOTES:

- 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:
--------------	-------



TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS.

Truss Drawing Left

End Indicator

** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

Revisions

128 Hidden Lakes North-Roof-Plan 2 GLH

NTS

1/12/2025

Designer:

Aaron Rogers
Project Number:
25010025-01

Sheet Number:

Wellco Contractor

Name

Name

Name

Name

Name



Customer: Street 1: City:

Illustration Not to Scale. Pitch: 0/12

Customer Ph.

Job Name: 01

Level: 1st FLOOR Label: DB1-2 - i30 Type: **Beam**

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

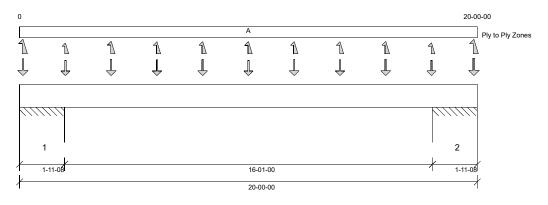
x 11-7/8

Status:

Design **Passed**

01/12/2025 16:28

Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2023.09.18 8.7.3.303.Update13.26



DESIGN INFORMATION a

IRC 2021 **Building Code:** Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing:

LL Deflection Limit: L/360, 0.75" (absolute) L/240, 1.00" (absolute) TL Deflection Limit:

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 20' Bottom: 20'

Bearing Stress of Support Material:

- 725 psi Wall @ 0'- 1 1/2"
- 725 psi Wall @ 1'- 10"
- 725 psi Wall @ 18'- 2"
- 725 psi Wall @ 19'- 10 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	10'	D + Lr	1.15	1164 lb ft	17913 lb ft	Passed - 6%
Max Neg. Moment:	18'- 2"	D + Lr	1.15	1878 lb ft	17913 lb ft	Passed - 10%
Max Shear:	17'- 5/8"	D + Lr	1.15	646 lb	9241 lb	Passed - 7%
Live Load (LL) Pos. Defl.:	10'	Lr		0.020"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	10'	D + Lr		0.039"	L/240	Passed - L/999

SUP	PORT AN	D REACTION INFORM	NOITA					
ID	Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result
1	8-00	0.6D + 0.6W	1.60	170 lb		29217 lb	20300 lb	Passed - 1%
1	8-00	D + Lr	1.15		-1025 lb	-	-	
1	1-03-08	D + 0.75(L + Lr + 0.6W)	1.60	1941 lb		40688 lb	39331 lb	Passed - 5%
1	1-03-08	0.6D + 0.6W	1.60		-445 lb	-	-	
2	1-03-08	D + 0.75(L + Lr + 0.6W)	1.60	1943 lb		40688 lb	39331 lb	Passed - 5%
2	1-03-08	0.6D + 0.6W	1.60		-448 lb	-	-	
2	8-00	0.6D + 0.6W	1.60	171 lb		29217 lb	20300 lb	Passed - 1%
2	8-00	D + Lr	1.15		-1025 lb	-	-	

LOADI	NG								
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Self Weight	0'	20'	Self Weight	Тор	11 lb/ft	-	-	-	-
Point	0'- 1 3/4"	0'- 1 3/4"	B01(c01)	Тор	64 lb	-	50 lb	100 lb	52/-207 lb
Point	2'	2'	B01(c01)	Тор	70 lb	-	32 lb	83 lb	34/-111 lb
Point	4'	4'	B01(c01)	Тор	77 lb	-	41 lb	88 lb	44/-155 lb
Point	6'	6'	B01(c01)	Тор	76 lb	-	39 lb	83 lb	41/-144 lb
Point	8'	8'	B01(c01)	Тор	76 lb	-	40 lb	83 lb	44/-148 lb
Point	10'	10'	B01(c01)	Тор	71 lb	-	38 lb	88 lb	22/-149 lb
Point	12'	12'	B01(c01)	Тор	76 lb	-	40 lb	83 lb	44/-148 lb
Point	14'	14'	B01(c01)	Тор	76 lb	-	39 lb	83 lb	41/-144 lb
Point	16'	16'	B01(c01)	Тор	77 lb	-	41 lb	88 lb	44/-154 lb
Point	18'	18'	B01(c01)	Тор	71 lb	-	32 lb	84 lb	34/-117 lb
Point	19'- 10 1/4"	19'- 10 1/4"	B01(c01)	Тор	64 lb	-	51 lb	102 lb	53/-205 lb

UNFA	CTORED RI	EACTIONS						
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	1'- 11 1/2"	E10(i29)	1009/-501 lb	-	402/-181 lb	993/-512 lb	328 lb/ -968 lb
==>	0'- 1 1/2"	0'- 1 1/2"	E10(i29)	-501 lb	-	-181 lb	108/-504 lb	-
==>	1'- 10"	1'- 10"	E10(i29)	1009 lb	-	402 lb	885/-8 lb	-
2	18'- 1/2"	20'	E8(i6)	1016/-506 lb	-	406/-184 lb	989/-504 lb	328 lb/ -968 lb
==>	18'- 2"	18'- 2"	E8(i6)	1016 lb	-	406 lb	887 lb	-
==>	19'- 10 1/2"	19'- 10 1/2"	E8(i6)	-506 lb	-	-184 lb	102/-504 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.56



Customer: Street 1:

City: Customer Ph.. Job Name: 01

Level: 1st FLOOR Label: DB1-2 - i30 Type: Beam

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

x 11-7/8

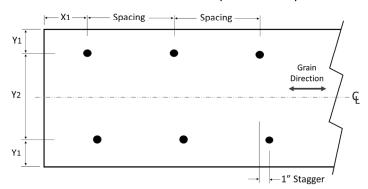
Status: Design Passed

PLY TO PLY CONNECTION

• Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 42. Row = 2, Spacing = 12" 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 128 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.

FASTENER INSTALLATION – 2 ROWS (FROM ONE FACE)





Customer: Street 1: City:

Customer Ph.

Job Name: 01

Level: 1st FLOOR Label: FB2-2 - i49 Type: **Beam**

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

x 14

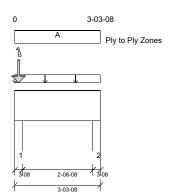
Report Version: 2023.09.18

Status: Design **Passed**

01/12/2025 16:28

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.7.3.303.Update13.26



DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing:

LL Deflection Limit: L/360, 0.75" (absolute) L/240, 1.00" (absolute) TL Deflection Limit:

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Bottom: 0' Top: 3'

Bearing Stress of Support Material:

- 425 psi Wall @ 0'- 2 1/2"
- 425 psi Wall @ 3'- 1"

ANALYSIS RESULTS								
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result		
Max Pos. Moment:	1'- 10 7/8"	D	0.90	93 lb ft	25776 lb ft	Passed - 0%		
Max Neg. Moment:	0'- 2 1/2"	D + Lr	1.15	179 lb ft	32936 lb ft	Passed - 1%		
Max Shear:	1'- 5 1/2"	D + Lr	1.15	87 lb	10894 lb	Passed - 1%		
SUPPORT AND REACTION INFORMATION								

	ID	Input Bearing Length	Controlling Combinat		DF	Downwai Reaction		Uplift eaction	Resistance of Member	Resistan		Result
ı	1	3-08	D + Lr	1.	15	3127 lb			9188 lb	5206 lb	Pas	sed - 60%
ı	2	3-08	D	0.	90	191 lb			9188 lb	5206 lb) Pa	ssed - 4%
ı	LOAD	DING										
ı	Туре	Start Loc	End Loc	Source	F	ace D	ead (D)	Live (L) Snow	(S) Roo	of Live (Lr)	Wind (W)
	Self Weight	0'	3'- 3 1/2"	Self Weight	Т	- ор	13 lb/ft	-	-		-	-
ı	Uniform	n 0'	3'- 3 1/2"	User Load	Т	op 1	25 lb/ft	-	-		-	-
ı	Point	0'- 1 3/4"	0'- 1 3/4"	11(i21)	Т	op ·	1652 lb	-	564	lb 1	187/-1 lb	1062/-877 lb
ı	UNFA	CTORED RI	EACTIONS									
ı	ID	Start Loc	End Loc	Source	Э		Dead (D)	Live	(L) Snov	v (S) Roo	of Live (Lr)	Wind (W)
ı	1	0'	0'- 3 1/2"	1(i13)		1998 lb	-	605	ib 1	273/-1 lb	621 lb/ -911 lb
ı	2	3'	3'- 3 1/2"	5(i12)		108 lb	-	-41	lb	-86 lb	621 lb/ -911 lb
1	DECL	ON NOTES										

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.98

PLY TO PLY CONNECTION

Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 12. Row = 3, Spacing = 12" 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 128 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer: Street 1: City: Customer Ph.. Job Name: 01

Level: 1st FLOOR
Label: FB2-2 - i49
Type: Beam

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

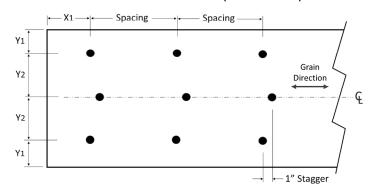
am SP LVL 1-3/4 Des x 14 Pas

Design Passed

Status:

PLY TO PLY CONNECTION

FASTENER INSTALLATION – 3 ROWS (FROM ONE FACE)





Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25010025-01

128 Hidden Lakes North-Roof-Plan 2 GLH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I70703545 thru I70703586

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

North Carolina COA: C-0844



January 14,2025

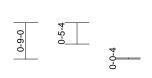
Gilbert, Eric

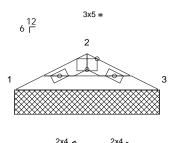
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V18	Valley	1	1	Job Reference (optional)	170703545

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2-11-0

Scale = 1:23.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-11-0 oc purlins.

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

bracing.

REACTIONS (size) 1=3-0-0, 3=3-0-0

Max Horiz 1=9 (LC 14)

Max Uplift 1=-12 (LC 14), 3=-12 (LC 15) Max Grav 1=132 (LC 20), 3=132 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-216/96, 2-3=-216/96

BOT CHORD 1-3=-73/187

NOTES

- Unbalanced roof live loads have been considered for 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) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

- 7) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 12 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

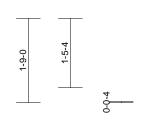


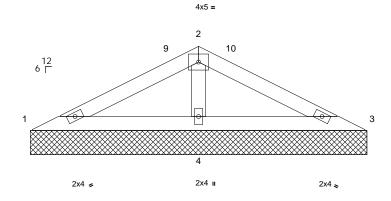
January 14,2025

Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V17	Valley	1	1	Job Reference (optional)	170703546

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6-11-0

Scale = 1:24

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

11	м	R	E	D

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-11-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=7-0-0, 3=7-0-0, 4=7-0-0

Max Horiz 1=25 (LC 14)

Max Uplift 1=-10 (LC 14), 3=-16 (LC 15),

4=-35 (LC 14)

Max Grav 1=108 (LC 20), 3=108 (LC 21),

4=452 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-122/221, 2-3=-122/221 1-4=-193/132, 3-4=-193/132 BOT CHORD

WEBS 2-4=-329/178

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-0-0, Exterior(2E) 4-0-0 to 7-0-0 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this desian.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 16 lb uplift at joint 3 and 35 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



Page: 1

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

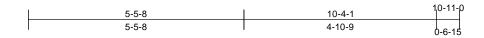
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)

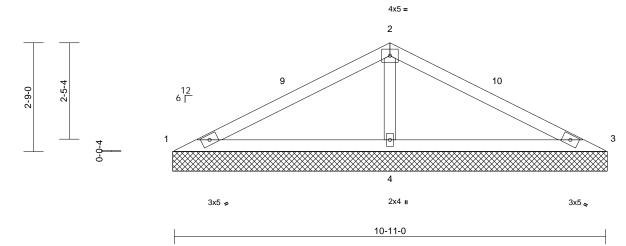


Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V16	Valley	1	1	Job Reference (optional)	170703547

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Page: 1





Scale = 1:29.2

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	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING TOP CHORD

Structural wood sheathing directly applied or 10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=11-0-0, 3=11-0-0, 4=11-0-0

Max Horiz 1=41 (LC 14)

Max Uplift 1=-51 (LC 21), 3=-51 (LC 20), 4=-71 (LC 14)

Max Grav 1=124 (LC 20), 3=124 (LC 21),

4=848 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-167/492, 2-3=-167/492

BOT CHORD 1-4=-377/217, 3-4=-377/217

WFBS 2-4=-664/341

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 8-0-0, Exterior(2E) 8-0-0 to 11-0-0 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this desian.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1, 51 lb uplift at joint 3 and 71 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



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

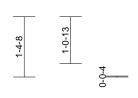
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)

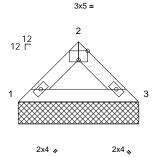


Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V15	Valley	1	1	I70703 Job Reference (optional)	548

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:13 ID:yDDayjwBg8e_rB0V4QraBbzw3KT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







2-8-8

Scale = 1:26.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-8-8 oc purlins.

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

bracing.

REACTIONS (size) 1=2-9-0, 3=2-9-0 Max Horiz 1=27 (LC 11)

Max Uplift 1=-8 (LC 14), 3=-8 (LC 15)

Max Grav 1=128 (LC 20), 3=128 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-151/71, 2-3=-151/71 BOT CHORD 1-3=-35/101

NOTES

- Unbalanced roof live loads have been considered for 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) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

- 7) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



Page: 1

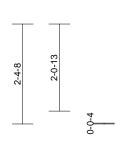
January 14,2025

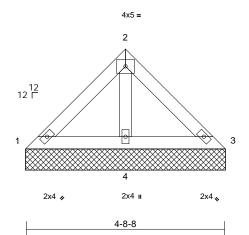
Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V14	Valley	1	1	I70703549 Job Reference (optional)	9

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:13 ID:yDDayjwBg8e_rB0V4QraBbzw3KT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	ļ		1							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=4-9-0, 3=4-9-0, 4=4-9-0 Max Horiz 1=-51 (LC 10)

Max Uplift 3=-1 (LC 15), 4=-42 (LC 14)

Max Grav 1=90 (LC 20), 3=90 (LC 21), 4=291

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-78/98, 2-3=-78/98 **BOT CHORD**

1-4=-79/103, 3-4=-79/103

WEBS 2-4=-205/108

NOTES

- 1) Unbalanced roof live loads have been considered for
- 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) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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

- 5) Unbalanced snow loads have been considered for this design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 3 and 42 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



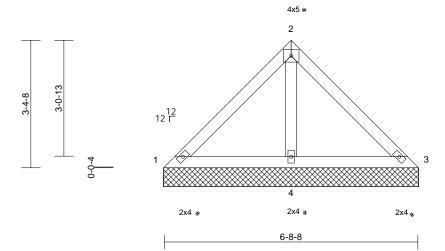
January 14,2025

Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V13	Valley	1	1	Job Reference (optional)	170703550

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Page: 1





Scale = 1:30.5

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.22	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a		PLATES MT20	GRIP 244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999	WITZO	244/190
TCDL BCLL	10.0 0.0*	Rep Stress Incr Code	YES IRC2021/TPI2014	WB Matrix-MP	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0										Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-8-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=6-9-0, 3=6-9-0, 4=6-9-0

Max Horiz 1=74 (LC 13)

Max Unlift 1=-11 (LC 21), 3=-11 (LC 20),

4=-86 (LC 14)

Max Grav 1=107 (LC 20), 3=107 (LC 21),

4=490 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-81/198, 2-3=-81/198

1-4=-161/104, 3-4=-161/104 BOT CHORD 2-4=-404/116

WFBS

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 3-9-0, Exterior(2E) 3-9-0 to 6-9-0 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 11 lb uplift at joint 3 and 86 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



January 14,2025

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

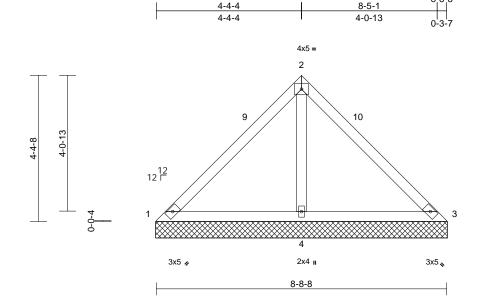
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V12	Valley	1	1	Job Reference (optional)	

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 15:39:13 ID:yDDayjwBg8e_rB0V4QraBbzw3KT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.5

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	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

Structural wood sheathing directly applied or TOP CHORD

8-8-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=8-9-0, 3=8-9-0, 4=8-9-0

Max Horiz 1=-98 (LC 12)

Max Unlift 1=-56 (LC 21), 3=-56 (LC 20),

4=-147 (LC 14)

1=78 (LC 20), 3=78 (LC 21), 4=729 Max Grav

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-160/325, 2-3=-160/325

BOT CHORD 1-4=-240/225, 3-4=-240/225

WFBS 2-4=-605/331

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 5-9-0, Exterior(2E) 5-9-0 to 8-9-0 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 1, 56 lb uplift at joint 3 and 147 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



January 14,2025

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

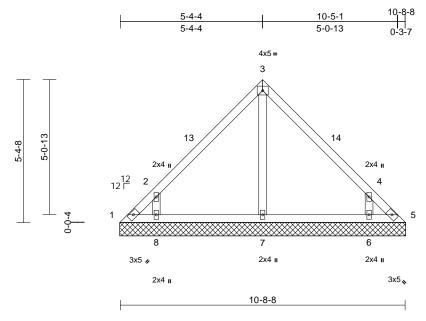
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V11	Valley	1	1	Job Reference (optional)	170703552

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Page: 1



Scale = 1:43.3

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	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 47 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

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.

REACTIONS (size) 1=10-9-0, 5=10-9-0, 6=10-9-0, 7=10-9-0, 8=10-9-0

Max Horiz 1=-121 (LC 10)

1=-73 (LC 12), 5=-43 (LC 13), Max Uplift

6=-169 (LC 15), 8=-175 (LC 14) Max Grav 1=103 (LC 14), 5=83 (LC 15),

6=475 (LC 21), 7=231 (LC 20),

8=475 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-187/134, 2-3=-260/127, 3-4=-260/127,

4-5=-165/100

1-8=-52/90, 7-8=-34/86, 6-7=-34/86,

5-6=-59/97 WEBS

3-7=-143/0. 2-8=-499/344. 4-6=-499/344

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 7-9-0, Exterior(2E) 7-9-0 to 10-9-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this 5) design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 1, 43 lb uplift at joint 5, 175 lb uplift at joint 8 and 169 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard

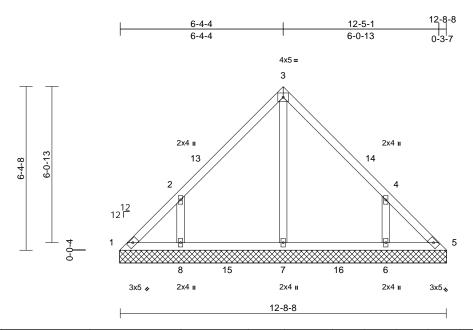


January 14,2025



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V10	Valley	1	1	Job Reference (optional)	170703553

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:13 ID:T1fCINvYvqW7D1RJWiJLfOzw3KU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:44.9

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 58 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

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.

REACTIONS (size) 1=12-9-0, 5=12-9-0, 6=12-9-0, 7=12-9-0, 8=12-9-0

Max Horiz 1=-145 (LC 10)

Max Uplift 1=-43 (LC 10), 5=-10 (LC 11),

6=-176 (LC 15), 8=-181 (LC 14)

Max Grav 1=126 (LC 25), 5=101 (LC 29), 6=448 (LC 21), 7=347 (LC 27),

8=448 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-150/129, 2-3=-242/136, 3-4=-242/136,

4-5=-127/88

1-8=-51/107, 7-8=-51/107, 6-7=-51/107,

5-6=-51/107

WEBS 3-7=-169/0. 2-8=-395/255. 4-6=-395/255

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-4-8, Exterior(2R) 3-4-8 to 9-4-8, Interior (1) 9-4-8 to 9-9-0, Exterior(2E) 9-9-0 to 12-9-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this 5) design.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 10 lb uplift at joint 5, 181 lb uplift at joint 8 and 176 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



Page: 1

January 14,2025

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

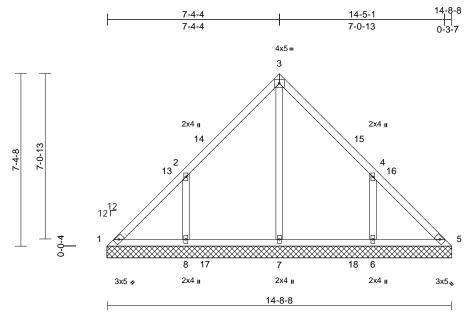
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V09	Valley	1	1	Job Reference (optional)	70703554

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:13 ID:T1fCINvYvqW7D1RJWiJLfOzw3KU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.3

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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 70 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=14-9-0, 5=14-9-0, 6=14-9-0, 7=14-9-0, 8=14-9-0

Max Horiz 1=-168 (LC 10)

1=-39 (LC 10), 6=-200 (LC 15), Max Uplift

8=-204 (LC 14)

Max Grav 1=146 (LC 25), 5=118 (LC 27), 6=473 (LC 6), 7=411 (LC 24),

8=473 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-169/168, 2-3=-204/134, 3-4=-204/128,

4-5=-148/131

1-8=-77/138, 7-8=-77/138, 6-7=-77/138,

BOT CHORD

5-6=-77/138

WEBS 3-7=-221/0, 2-8=-387/242, 4-6=-387/240 NOTES

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

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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-4-8, Exterior(2R) 4-4-8 to 10-4-8, Interior (1) 10-4-8 to 11-9-0, Exterior(2E) 11-9-0 to 14-9-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this 5) design.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1, 204 lb uplift at joint 8 and 200 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard

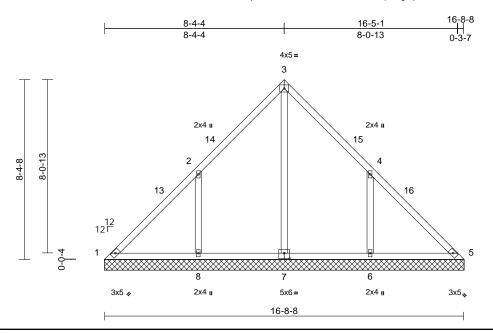


January 14,2025



J	lob	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
2	25010025-01	V08	Valley	1	1	Job Reference (optional)	170703555

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:12 ID:T1fCINvYvqW7D1RJWiJLfOzw3KU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:53.6

Plate Offsets (X, Y): [7:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 82 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 2 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=16-9-0, 5=16-9-0, 6=16-9-0,

7=16-9-0, 8=16-9-0

1=-192 (LC 10) Max Horiz

Max Uplift 1=-38 (LC 10), 6=-230 (LC 15), 8=-234 (LC 14)

1=144 (LC 25), 5=121 (LC 32),

Max Grav 6=537 (LC 25), 7=488 (LC 24),

8=542 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-193/260, 2-3=-151/187, 3-4=-151/161,

4-5=-154/219

1-8=-128/176, 6-8=-128/176, 5-6=-128/176 BOT CHORD WEBS 3-7=-301/0, 2-8=-404/267, 4-6=-404/265

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-4-8, Exterior(2R) 5-4-8 to 11-4-8, Interior (1) 11-4-8 to 13-9-0, Exterior(2E) 13-9-0 to 16-9-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 234 lb uplift at joint 8 and 230 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



Page: 1

January 14,2025

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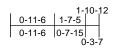
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

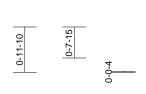
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)

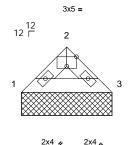


Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V07	Valley	1	1	Job Reference (optional)	170703556

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:12 ID:08dfiYj4ZWKOeOPKSkP8Qvzw3Bi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-10-12

Scale = 1:24.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

1-10-12 oc purlins.

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

bracing.

REACTIONS (size) 1=1-11-4, 3=1-11-4

Max Horiz 1=18 (LC 11)

Max Uplift 1=-6 (LC 14), 3=-6 (LC 15) Max Grav 1=87 (LC 20), 3=87 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-99/53, 2-3=-99/53

BOT CHORD 1-3=-22/64

NOTES

- Unbalanced roof live loads have been considered for 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) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.

- 7) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1 and 6 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



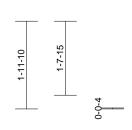
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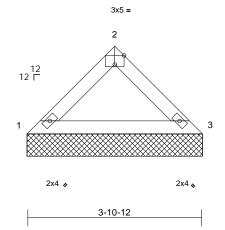
January 14,2025

Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V06	Valley	1	1	Job Reference (optional)	70703557

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:12 ID:caxX3WgBGbxpnxglmcrRpGzw3Bl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:25.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=3-11-4, 3=3-11-4

Max Horiz 1=-41 (LC 12)

Max Uplift 1=-11 (LC 14), 3=-11 (LC 15) Max Grav 1=191 (LC 20), 3=191 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-234/90, 2-3=-234/90

BOT CHORD 1-3=-50/160

NOTES

- Unbalanced roof live loads have been considered for 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) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

- 7) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1 and 11 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



Page: 1

January 14,2025

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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

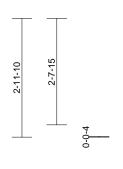
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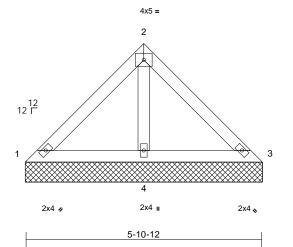


Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V05	Valley	1	1	Job Reference (optional)	

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:12 ID:gBpmeqfxkzh5YdWMfBpzjrzw3Bn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:28.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=5-11-4, 3=5-11-4, 4=5-11-4

Max Horiz 1=-65 (LC 12) Max Uplift 4=-66 (LC 14)

Max Grav 1=102 (LC 20), 3=102 (LC 21),

4=403 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-83/153. 2-3=-83/153

BOT CHORD 1-4=-119/139, 3-4=-119/139

WEBS 2-4=-309/166

NOTES

- Unbalanced roof live loads have been considered for
- 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) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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

- 5) Unbalanced snow loads have been considered for this design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



Page: 1

January 14,2025

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

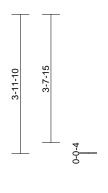
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)

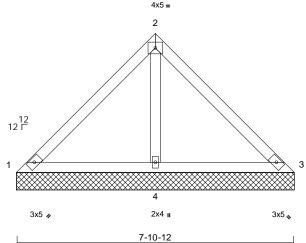


Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V04	Valley	1	1	Job Reference (optional)	170703559

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:12 ID:C?GORUeJzgZEwTxA5UlkBezw3Bo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:32.9

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

7-10-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=7-11-4, 3=7-11-4, 4=7-11-4

Max Horiz 1=-88 (LC 10)

Max Uplift 1=-33 (LC 21), 3=-33 (LC 20),

4=-120 (LC 14)

1=83 (LC 20), 3=83 (LC 21), 4=622 Max Grav

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-88/269, 2-3=-88/269

1-4=-219/134, 3-4=-219/134 BOT CHORD

WFBS 2-4=-540/163

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-11-4, Exterior(2É) 4-11-4 to 7-11-4 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
- 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); Pf=20.0 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
- Unbalanced snow loads have been considered for this desian.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 33 lb uplift at joint 3 and 120 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

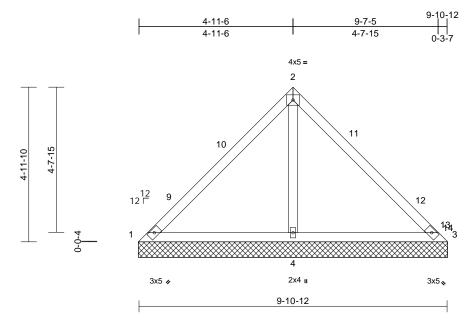


January 14,2025



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V03	Valley	1	1	Job Reference (optional)	

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Scale = 1:37

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	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

9-10-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=9-11-4, 3=9-11-4, 4=9-11-4

Max Horiz 1=111 (LC 11)

Max Unlift 1=-54 (LC 21), 3=-62 (LC 20),

4=-157 (LC 14)

1=84 (LC 20), 3=67 (LC 21), 4=810 Max Grav

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-163/379, 2-3=-164/385

BOT CHORD 1-4=-235/199, 3-4=-235/199

WEBS 2-4=-689/348

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 6-7-0, Exterior(2E) 6-7-0 to 9-7-0 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this desian.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 62 lb uplift at joint 3 and 157 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



January 14,2025

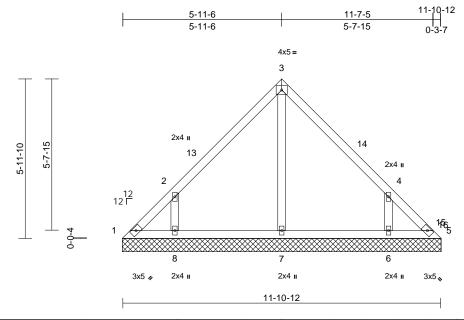
Page: 1



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	V02	Valley	1	1	Job Reference (optional)	61

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:12 ID:BO8i2zUUgl2IQj6raNNRFqzw3Xx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.1

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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

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.

REACTIONS (size) 1=11-11-4, 5=11-11-4, 6=11-11-4, 7=11-11-4, 8=11-11-4

Max Horiz 1=135 (LC 11)

Max Uplift 1=-47 (LC 10), 5=-24 (LC 13),

6=-169 (LC 15), 8=-175 (LC 14) 1=110 (LC 25), 5=80 (LC 27),

Max Grav 6=447 (LC 21), 7=242 (LC 20),

8=449 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-156/123, 2-3=-252/132, 3-4=-252/133,

4-5=-131/86

1-8=-40/89, 7-8=-40/89, 6-7=-40/89,

5-6=-40/89

WEBS 3-7=-155/0, 2-8=-416/279, 4-6=-415/271

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 8-7-0, Exterior(2E) 8-7-0 to 11-7-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this 5) design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1, 24 lb uplift at joint 5, 175 lb uplift at joint 8 and 169 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



January 14,2025

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

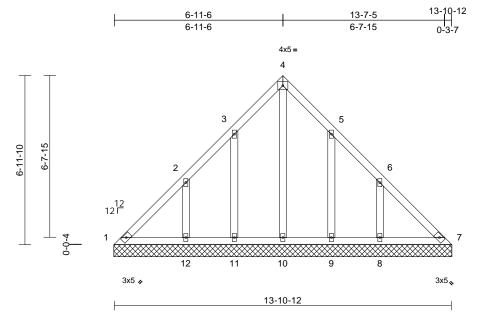
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Job		Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
2501	10025-01	V01	Valley	1	1	Job Reference (optional)	170703562

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Page: 1



Scale = 1:47.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 78 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=13-11-4, 7=13-11-4, 8=13-11-4, 9=13-11-4, 10=13-11-4,

11=13-11-4, 12=13-11-4

Max Horiz 1=159 (LC 13)

Max Uplift 1=-32 (LC 10), 8=-119 (LC 15),

9=-95 (LC 15), 11=-95 (LC 14), 12=-123 (LC 14)

Max Grav 1=121 (LC 25), 7=101 (LC 27),

8=286 (LC 21), 9=256 (LC 21) 10=209 (LC 27), 11=256 (LC 20),

12=286 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-164/156, 2-3=-75/102, 3-4=-81/147, 4-5=-81/147, 5-6=-73/83, 6-7=-158/123

BOT CHORD 1-12=-94/190, 11-12=-94/190, 10-11=-94/190,

9-10=-94/190, 8-9=-94/190, 7-8=-94/190

WFBS 4-10=-163/0, 3-11=-232/149, 2-12=-208/206,

5-9=-232/149. 6-8=-208/206

NOTES

Unbalanced roof live loads have been considered for this design.

- 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) exterior zone and C-C Corner(3E) 0-0-0 to 2-11-10, Exterior(2N) 2-11-10 to 3-11-10, Corner(3R) 3-11-10 to 9-11-10, Exterior(2N) 9-11-10 to 10-11-4, Corner(3E) 10-11-4 to 13-11-4 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
- 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); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 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.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1, 95 lb uplift at joint 11, 123 lb uplift at joint 12, 95 lb uplift at joint 9 and 119 lb uplift at joint 8.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.

LOAD CASE(S) Standard



January 14,2025

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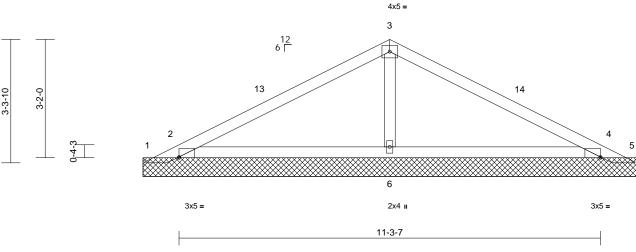
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	PB02	Piggyback	10	1	Job Reference (optional)	

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Scale = 1:30.8 Plate Offsets (X, Y): [2:Edge,0-0-4], [4: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	1.15	TC	0.75	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 OTHERS 2x4 SP No.3

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.

REACTIONS (size) 1=13-2-10, 2=13-2-10, 4=13-2-10,

5=13-2-10, 6=13-2-10

Max Horiz 1=50 (LC 14)

Max Uplift 1=-515 (LC 21), 2=-187 (LC 14),

4=-182 (LC 15), 5=-511 (LC 22) Max Grav 1=135 (LC 14), 2=950 (LC 21),

4=934 (LC 22), 5=114 (LC 15),

6=382 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-104/253, 2-3=-195/287, 3-4=-195/286,

4-5=-86/251

2-6=-282/119, 4-6=-282/119 BOT CHORD

WEBS 3-6=-243/133

NOTES

- Unbalanced roof live loads have been considered for this design
- 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) exterior zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Exterior(2R) 3-4-3 to 9-10-7, Exterior(2É) 9-10-7 to 12-10-7 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 515 lb uplift at joint 1 and 511 lb uplift at joint 5.
- 11) N/A
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 14,2025

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)

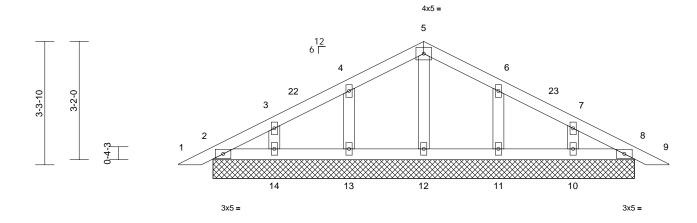


Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	PB01	Piggyback	1	1	Job Reference (optional)	170703564

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:12 ID:yJN9EKq_L?XwkYBrX1z99dzw3dy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1	-0-11-1	5-7-12	11-3-7	12-2-8
	0-11-1	5-7-12	5-7-12	0-11-1

11-3-7



Scale = 1:30.8

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

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.

REACTIONS (size)

2=11-3-7, 8=11-3-7, 10=11-3-7, 11=11-3-7, 12=11-3-7, 13=11-3-7,

14=11-3-7

Max Horiz 2=48 (LC 18)

Max Uplift 2=-8 (LC 15), 8=-10 (LC 15),

10=-39 (LC 15), 11=-47 (LC 15), 13=-47 (LC 14), 14=-40 (LC 14)

Max Grav 2=106 (LC 21), 8=106 (LC 22), 10=208 (LC 22), 11=242 (LC 22), 12=137 (LC 22), 13=242 (LC 21),

14=208 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-44/29, 3-4=-53/44, 4-5=-61/102, 5-6=-61/102, 6-7=-53/36,

7-8=-26/20 8-9=0/16

BOT CHORD 2-14=-8/56, 13-14=-8/56, 12-13=-8/56,

11-12=-8/56, 10-11=-8/56, 8-10=-8/56

WFBS 5-12=-98/0. 4-13=-204/125. 3-14=-163/87.

6-11=-204/125, 7-10=-163/87

NOTES

Unbalanced roof live loads have been considered for this design.

- 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) exterior zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Exterior(2R) 3-4-3 to 9-10-7, Exterior(2E) 9-10-7 to 12-10-7 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 3) 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); Pf=20.0 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
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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.
- 12) N/A
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 14,2025

Page: 1

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

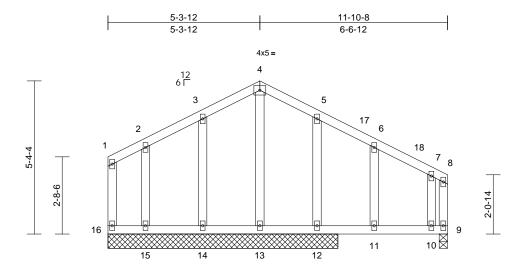
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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)



Ī	Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
	25010025-01	D05	Common Supported Gable	1	1	Job Reference (optional)	170703565

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:11 ID:TvRCoZtkMpAyP1n6YpgVGrzw3E4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



11-10-8 Scale = 1:40.3

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
•		, ,			0.00			(/			_		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)		10-11	>999	-	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	10-11	>999	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	9	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR									
BCDL	10.0										Weight: 73 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

9=0-3-8, 12=8-0-8, 13=8-0-8, 14=8-0-8, 15=8-0-8, 16=8-0-8

Max Horiz 16=-113 (LC 10)

Max Uplift 9=-18 (LC 15), 12=-110 (LC 15), 14=-48 (LC 14), 15=-83 (LC 11),

16=-85 (LC 10)

Max Grav 9=195 (LC 21), 12=483 (LC 21),

13=97 (LC 15), 14=259 (LC 20), 15=156 (LC 20), 16=124 (LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-55/69, 2-3=-70/99, 3-4=-91/169,

4-5=-99/178, 5-6=-46/83, 6-7=-70/36, 7-8=-70/21, 8-9=-83/22, 1-16=-68/92

15-16=-50/92, 14-15=-50/92, 13-14=-50/92, **BOT CHORD** 12-13=-50/92, 11-12=-50/92, 10-11=-50/92,

9-10=-50/92

4-13=-92/15, 3-14=-208/132, 2-15=-142/58, WEBS

5-12=-306/190, 6-11=-83/80, 7-10=-52/51

NOTES

Unbalanced roof live loads have been considered for this design.

- 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) exterior zone and C-C Corner(3E) 4-5-12 to 7-7-12, Corner(3R) 7-7-12 to 12-7-12, Exterior(2N) 12-7-12 to 13-0-12, Corner(3E) 13-0-12 to 16-0-12 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 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this
- All plates are 2x4 MT20 unless otherwise indicated
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 10) * 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.

LOAD CASE(S) Standard



January 14,2025

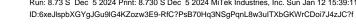
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

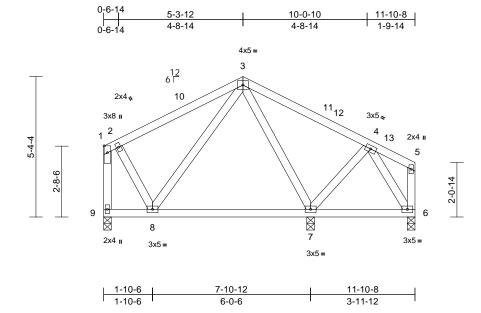
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	D04	Common	3	1	Job Reference (optional)	170703566

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:11 ID:6xeJlspbXGYgJGu9IG4KZozw3E9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:43.9

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 73 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

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 6=0-3-8, 7=0-3-8, 9=0-3-8 (size)

Max Horiz 9=-116 (LC 10)

Max Uplift 6=-122 (LC 20), 7=-83 (LC 14),

9=-13 (LC 14)

Max Grav 6=111 (LC 21), 7=742 (LC 20),

9=310 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-198/31, 2-3=-183/56, 3-4=-54/280,

4-5=-33/95, 5-6=-29/83, 1-9=-271/48 8-9=-79/118. 7-8=-39/115. 6-7=-83/94

BOT CHORD 2-8=-32/116. 3-8=-21/110. 3-7=-520/204.

4-7=-300/234, 4-6=-200/156

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 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) exterior zone and C-C Exterior(2E) 4-5-12 to 7-5-12, Exterior(2R) 7-5-12 to 12-7-12, Interior (1) 12-7-12 to 13-0-12, Exterior(2E) 13-0-12 to 16-0-12 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 grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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

- Unbalanced snow loads have been considered for this 4) design.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 7, and 6. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



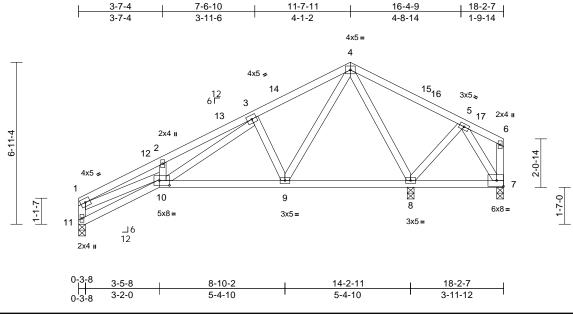
January 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	D03	Roof Special	3	1	Job Reference (optional)	170703567

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:11 ID:HFDBLBKVy_VLW7rTPsNxxMzw3En-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.4 Plate Offsets (X, Y): [10:0-5-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.11	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 105 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6:2x4 SP No.3 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 7=0-3-8, 8=0-3-8, 11=0-3-8

Max Horiz 11=140 (LC 11)

Max Uplift 7=-610 (LC 20), 8=-244 (LC 14),

11=-22 (LC 14)

Max Grav 7=141 (LC 14), 8=1619 (LC 20),

11=434 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-11=-429/102, 1-2=-1196/193, TOP CHORD

2-3=-1198/286, 3-4=-292/114, 4-5=-133/836,

5-6=-29/104, 6-7=-30/97

BOT CHORD 10-11=-154/178, 9-10=-50/392, 8-9=-162/117,

7-8=-370/93

1-10=-127/964, 2-10=-212/133,

WEBS

3-10=-265/889, 3-9=-512/183, 4-9=-109/665, 4-8=-1243/239, 5-8=-599/219, 5-7=-139/702

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-7-11, Exterior(2R) 8-7-11 to 14-7-11, Interior (1) 14-7-11 to 15-0-11, Exterior(2E) 15-0-11 to 18-0-11 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this
- 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.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
- H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 14,2025

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

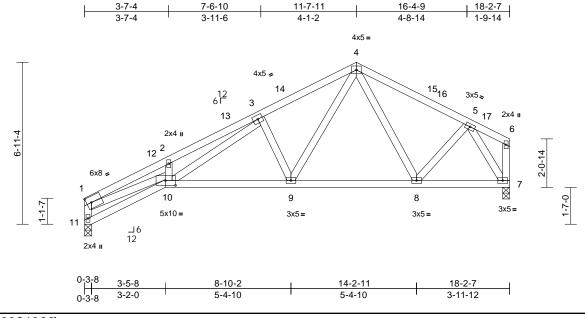
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	D02	Roof Special	3	1	Job Reference (optional)	170703568

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:11 ID:h0J2HmlOFES9llAEbnVh?Ezw3FX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.4

Plate Offsets (2	X, Y): [[10:0-5-4,0-2-8]
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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	0.72	Vert(LL)	-0.10	9-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.21	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 105 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-6:2x4 SP No.3 TOP CHORD 2x4 SP No.2

BOT CHORD **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 7=0-3-8, 11=0-3-8

Max Horiz 11=140 (LC 11)

Max Uplift 7=-51 (LC 14), 11=-75 (LC 14) Max Grav 7=763 (LC 21), 11=780 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-11=-782/173, 1-2=-2455/440, 2-3=-2433/531, 3-4=-1222/300,

4-5=-734/221, 5-6=-39/78, 6-7=-28/67

BOT CHORD 10-11=-154/215, 9-10=-180/1254,

8-9=-41/637, 7-8=-67/481

WEBS 1-10=-339/2064, 2-10=-172/125, 3-9=-582/194, 3-10=-312/1193,

4-9=-122/753, 4-8=-143/55, 5-8=0/288,

5-7=-930/206

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-7-11, Exterior(2R) 8-7-11 to 14-7-11, Interior (1) 14-7-11 to 15-0-11, Exterior(2E) 15-0-11 to 18-0-11 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- 4) Unbalanced snow loads have been considered for this design.
- 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.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 7. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 14,2025

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

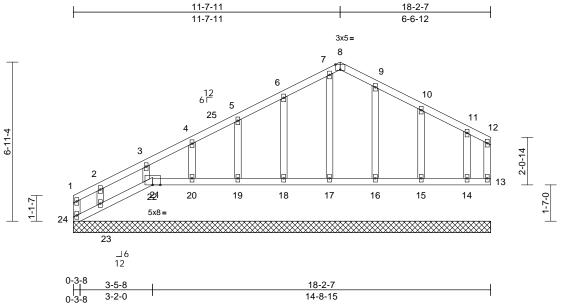
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	D01	Roof Special Supported Gable	1	1	Job Reference (optional)	170703569

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:11 ID:tsyn0jgegOi?1qj5EWPHIzzw3Fd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

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

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 21-22.

REACTIONS (size) 13=18-2-7, 14=18-2-7, 15=18-2-7, 16=18-2-7, 17=18-2-7, 18=18-2-7,

19=18-2-7, 20=18-2-7, 21=18-2-7, 22=18-2-7, 23=18-2-7, 24=18-2-7

Max Horiz 24=135 (LC 11)

13=-54 (LC 14), 14=-37 (LC 15), 15=-51 (LC 15), 16=-18 (LC 15),

18=-56 (LC 14), 19=-39 (LC 14), 20=-44 (LC 14), 21=-27 (LC 11), 22=-17 (LC 14), 23=-156 (LC 14),

24=-61 (LC 12)

Max Grav 13=35 (LC 24), 14=161 (LC 21), 15=233 (LC 21), 16=223 (LC 21),

17=186 (LC 20), 18=233 (LC 20), 19=214 (LC 20), 20=157 (LC 20), 21=16 (LC 12), 22=159 (LC 1), 23=153 (LC 24), 24=160 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-24=-98/51, 1-2=-140/80, 2-3=-84/54, 3-4=-65/48, 4-5=-55/96, 5-6=-45/143, 6-7=-46/201, 7-8=-44/161, 8-9=-47/196

9-10=-45/172, 10-11=-42/109, 11-12=-29/60, 12-13=-21/40

BOT CHORD 23-24=-64/75, 22-23=-47/57, 21-22=-54/48, 20-21=-38/45, 19-20=-38/45, 18-19=-38/45, 17-18=-38/45, 16-17=-38/45, 15-16=-38/45, 14-15=-38/45, 13-14=-38/45 7-17=-147/0. 6-18=-194/109. 5-19=-175/81.

WEBS 4-20=-122/84, 3-22=-124/102 2-23=-132/136, 9-16=-185/41

10-15=-193/120. 11-14=-132/87

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 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) exterior zone and C-C Corner(3E) 0-1-12 to 3-2-2, Exterior(2N) 3-2-2 to 8-7-11, Corner(3R) 8-7-11 to 14-7-11, Exterior(2N) 14-7-11 to 15-0-11, Corner(3E) 15-0-11 to 18-0-11 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 21, 17 lb uplift at joint 22 and 156 lb uplift at joint 23.
- 13) N/A
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21, 13, 17, 18, 19, 20, 22, 23, 16, 15, 14

LOAD CASE(S) Standard



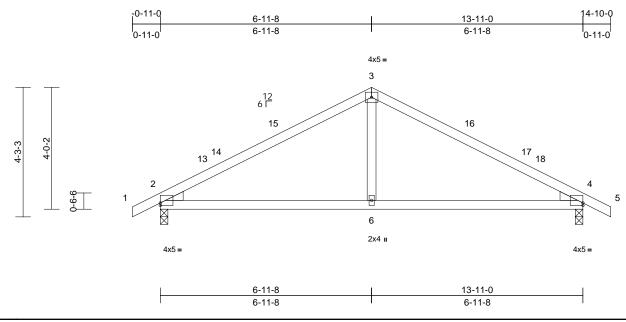
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	C02	Common	5	1	Job Reference (optional)	170703570

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:11 ID: wCJb1DRj8YJiFvmRd1ZqUzzw3Fw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:37.9

Plate Offsets (X, Y): [2:Edge,0-1-0], [4:Edge,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	1.15	TC	0.76	Vert(LL)	-0.09	6-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.14	6-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							1	
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-11 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-0. 4=0-3-0

Max Horiz 2=-62 (LC 15)

Max Uplift 2=-71 (LC 14), 4=-71 (LC 15)

Max Grav 2=695 (LC 21), 4=695 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/25, 2-3=-819/235, 3-4=-819/236,

TOP CHORD 4-5=0/25

BOT CHORD 2-6=-182/616, 4-6=-172/616 3-6=0/311

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 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) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-11-8, Exterior(2R) 3-11-8 to 9-11-8, Interior (1) 9-11-8 to 11-10-0, Exterior(2E) 11-10-0 to 14-10-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 14,2025

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

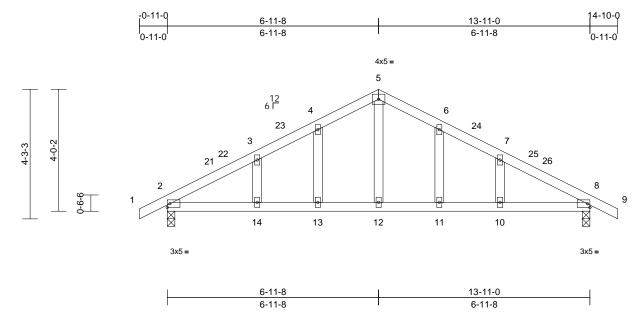
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	C01	Common Structural Gable	1	1	Job Reference (optional)	170703571

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:11 ID:w7Culzd39fkL5SZMelLtkdzw3H_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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	0.47	Vert(LL)	-0.16	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.22	13-14	>761	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins.

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

bracing

REACTIONS (size) 2=0-3-0, 8=0-3-0

Max Horiz 2=62 (LC 14)

Max Uplift 2=-71 (LC 14), 8=-71 (LC 15) Max Grav 2=695 (LC 21), 8=695 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-795/200, 3-4=-729/240,

4-5=-721/288, 5-6=-721/288, 6-7=-729/240,

7-8=-795/201, 8-9=0/25

BOT CHORD 2-14=-99/638, 13-14=-99/638,

12-13=-99/638, 11-12=-99/638, 10-11=-99/638, 8-10=-99/638

5-12=-116/367, 4-13=-121/82, 3-14=-85/63,

6-11=-121/82, 7-10=-85/63

WEBS NOTES

- Unbalanced roof live loads have been considered for 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) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-11-8, Exterior(2R) 3-11-8 to 9-11-8, Interior (1) 9-11-8 to 11-10-0, Exterior(2E) 11-10-0 to 14-10-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- 10) * 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.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 14,2025

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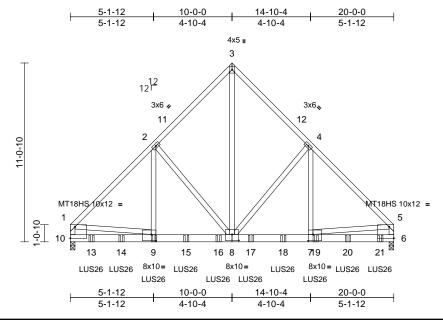


Job Truss Truss Type Qtv Ply 128 Hidden Lakes North-Roof-Plan 2 GLH 170703572 25010025-01 B03-2 Common Girder 2 Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:11 ID:8E4jEAVj340YR9yUijA3S0zw3IR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.2

Plate Offsets (X, Y): [1:Edge,0-8-9], [5:Edge,0-8-9], [7:0-3-8,0-4-12], [8:0-5-0,0-4-8], [9:0-3-8,0-4-12]

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	0.60	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.12	7-8	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.02	6	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 316 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 8-3,10-1,6-5:2x4 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-7-15 oc purlins, except end verticals.

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

bracing

REACTIONS 6=0-3-8, 10=0-3-8 (size)

Max Horiz 10=-258 (LC 10)

Max Grav 6=4810 (LC 6), 10=4661 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-4644/0, 2-3=-3309/0, 3-4=-3309/0, 4-5=-4623/0, 1-10=-3727/0, 5-6=-3713/0

BOT CHORD

9-10=-97/917, 7-9=0/3341, 6-7=0/711 3-8=0/4261, 4-8=-1531/0, 4-7=0/1802, 2-8=-1558/0, 2-9=0/1838, 1-9=0/2554,

5-7=0/2564

NOTES

WEBS

- 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
 - Bottom chords connected as follows: 2x6 2 rows staggered 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.
- 3) Unbalanced roof live loads have been considered for this design.

- 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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-3-12 from the left end to 19-2-0 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 9=-747 (B), 13=-747 (B), 14=-747 (B), 15=-747 (B), 16=-740 (B), 17=-747 (B), 18=-747 (B), 19=-747 (B), 20=-747 (B), 21=-751 (B)

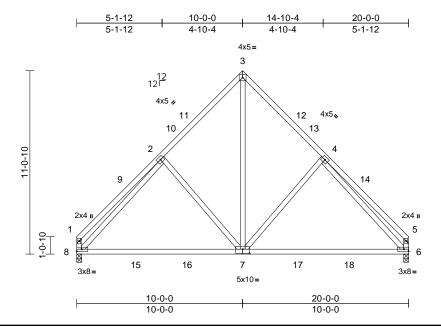




Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	B02	Common	2	1	Job Reference (optional)	0703573

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:10 ID:nSiZU0pbFtzUjYgkQyAxBCzw3JJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:69.4

Plate Offsets (X, Y): [7:0-5-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.25	6-7	>957	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.41	6-7	>573	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 133 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3 *Except* 7-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6=0-3-8, 8=0-3-8

Max Horiz 8=-260 (LC 10) Max Uplift 6=-53 (LC 14), 8=-53 (LC 15)

Max Grav 6=917 (LC 6), 8=917 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-525/123, 2-3=-903/192, 3-4=-902/192,

4-5=-501/123, 1-8=-456/120, 5-6=-439/120

BOT CHORD 6-8=-112/706

WEBS 3-7=-145/846, 4-7=-265/250, 2-7=-268/250,

2-8=-627/70, 4-6=-627/70

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-0-0, Exterior(2R) 7-0-0 to 13-0-0, Interior (1) 13-0-0 to 16-10-4, Exterior(2E) 16-10-4 to 19-10-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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

- 4) Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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

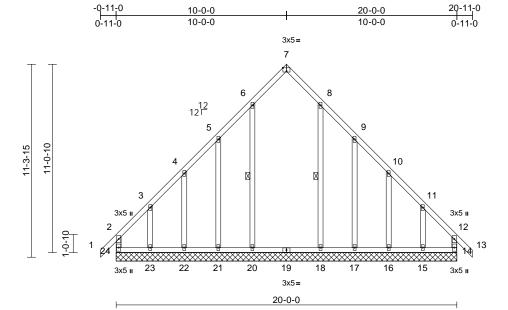
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	B01	Common Supported Gable	1	1	Job Reference (optional)	170703574

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:10 ID:uhS2efm5BfT3ExMyB75?1Mzw3JN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:67.6

Plate Offsets (X,	Y):	[7:0-2-8,Edge]	
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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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 144 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing. WEBS

1 Row at midpt 6-20, 8-18

REACTIONS (size) 14=20-0-0, 15=20-0-0, 16=20-0-0,

17=20-0-0, 18=20-0-0, 20=20-0-0, 21=20-0-0, 22=20-0-0, 23=20-0-0, 24=20-0-0

Max Horiz 24=-276 (LC 12)

14=-85 (LC 13), 15=-283 (LC 15),

16=-44 (LC 15), 17=-146 (LC 15), 18=-6 (LC 15), 20=-11 (LC 14), 21=-144 (LC 14), 22=-44 (LC 14), 23=-285 (LC 14), 24=-94 (LC 12)

Max Grav 14=351 (LC 15), 15=236 (LC 31), 16=205 (LC 26), 17=179 (LC 22),

18=357 (LC 6), 20=357 (LC 5), 21=179 (LC 21), 22=204 (LC 25),

23=239 (LC 30), 24=356 (LC 14)

FORCES TOP CHORD (lb) - Maximum Compression/Maximum Tension

2-24=-272/96, 1-2=0/44, 2-3=-391/176, 3-4=-225/112, 4-5=-160/81, 5-6=-138/69,

6-7=-165/89, 7-8=-165/89, 8-9=-138/64, 9-10=-157/73, 10-11=-221/104,

11-12=-387/170, 12-13=0/44, 12-14=-269/92

BOT CHORD 23-24=-133/357, 22-23=-133/357,

21-22=-133/357, 20-21=-133/357, 18-20=-133/357, 17-18=-133/357,

16-17=-133/357, 15-16=-133/357, 14-15=-133/357

6-20=-252/52, 5-21=-164/177, 4-22=-149/98,

3-23=-175/222, 8-18=-252/48, 9-17=-163/177, 10-16=-151/96

11-15=-168/232

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for this design
- 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) exterior zone and C-C Corner(3E) -0-11-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-0-0, Corner(3R) 7-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 17-11-0, Corner(3E) 17-11-0 to 20-11-0 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
- 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); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 24, 85 lb uplift at joint 14, 11 lb uplift at joint 20, 144 lb uplift at joint 21, 44 lb uplift at joint 22, 285 lb uplift at joint 23, 6 lb uplift at joint 18, 146 lb uplift at joint 17, 44 lb uplift at joint 16 and 283 lb uplift at joint 15.

LOAD CASE(S) Standard



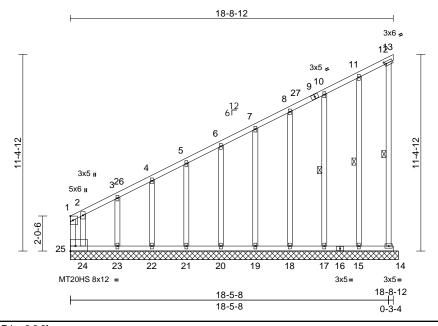
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A11	Monopitch Supported Gable	1	1	Job Reference (optional)	170703575

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:10 ID:F6C4ZkQv0kpAGUeO_X4CMFzw3Jq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.8

Plate Offsets (X, Y): [12	2:0-1-3,0-1-8], [25:Edge,0-3-8]
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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	0.60	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(TL)	n/a	-	n/a	999	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	-0.14	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 156 lb	FT = 20%

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

WEBS 2x4 SP 2400F 2.0E *Except* 25-1:2x4 SP No.2

OTHERS 2x4 SP No.3

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.

WEBS 12-14, 11-15, 10-17 1 Row at midpt

13=19-0-4, 14=19-0-4, 15=19-0-4, REACTIONS (size)

17=19-0-4, 18=19-0-4, 19=19-0-4, 20=19-0-4, 21=19-0-4, 22=19-0-4,

23=19-0-4, 24=19-0-4, 25=19-0-4

Max Horiz 25=407 (LC 11)

Max Uplift 13=-188 (LC 14), 14=-311 (LC 13),

15=-54 (LC 14), 17=-39 (LC 14), 18=-47 (LC 14), 19=-43 (LC 14),

20=-44 (LC 14), 21=-43 (LC 14), 22=-47 (LC 14), 23=-28 (LC 14),

24=-1030 (LC 11), 25=-252 (LC 12) Max Grav 13=217 (LC 13), 14=262 (LC 10),

15=230 (LC 20), 17=232 (LC 20),

18=175 (LC 20), 19=160 (LC 1), 20=160 (LC 20), 21=160 (LC 1), 22=159 (LC 20), 23=166 (LC 20),

24=295 (LC 12), 25=1148 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-522/540, 2-3=-310/325, 3-4=-283/306,

4-5=-259/292, 5-6=-238/276, 6-7=-225/260, 7-8=-212/244, 8-10=-198/228, 10-11=-191/219, 11-12=-142/178, 12-13=-177/97, 12-14=-343/214,

1-25=-589/613

BOT CHORD 24-25=-140/214, 23-24=-140/214,

22-23=-140/214, 21-22=-140/214, 20-21=-140/214, 19-20=-140/214, 18-19=-140/214, 17-18=-140/214,

15-17=-140/214. 14-15=-140/214 WEBS 11-15=-194/75, 10-17=-192/112,

8-18=-135/83, 7-19=-126/86, 6-20=-126/86, 5-21=-127/87, 4-22=-124/82, 3-23=-135/118,

2-24=-522/467

NOTES

- 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) exterior zone and C-C Corner(3E) 3-1-12 to 6-1-12, Exterior(2N) 6-1-12 to 21-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; _umber 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) * 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.
- 12) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 13 and 1030 lb uplift at joint 24.

LOAD CASE(S) Standard



January 14,2025

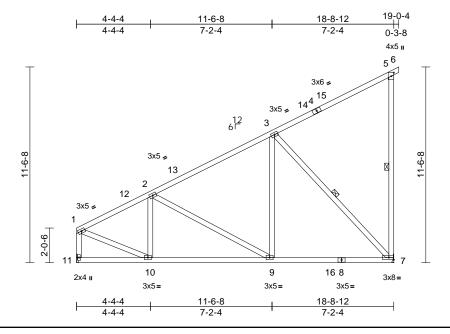
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A10	Jack-Closed	1	1	Job Reference (optional)	170703576

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 15:39:10 ID:QPnyA3xpRSmrSKbie7Mpkpzw3KS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:68

Plate Offsets (X, Y): [5:0-2-8,0-1-12]

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	0.90	Vert(LL)	-0.11	7-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.17	7-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 5-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-4-1 oc

bracing.

WEBS 1 Row at midpt 5-7, 3-7

REACTIONS (size) 7= Mechanical, 11= Mechanical

Max Horiz 11=414 (LC 11)

Max Uplift 7=-123 (LC 11), 11=-25 (LC 14)

Max Grav 7=967 (LC 5), 11=816 (LC 28) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-876/83, 2-3=-759/126, 3-5=-230/173,

5-6=-19/0, 5-7=-322/88, 1-11=-760/92

BOT CHORD 10-11=-394/432, 9-10=-228/1018,

7-9=-136/738

WEBS 2-10=-168/104, 2-9=-319/118, 3-9=0/459,

3-7=-920/128, 1-10=-48/808

NOTES

- 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) exterior zone and C-C Exterior(2E) 3-1-12 to 6-1-12, Interior (1) 6-1-12 to 17-9-5, Exterior(2R) 17-9-5 to 22-0-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15): Pf=20.0 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

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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, 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 123 lb uplift at joint 7 and 25 lb uplift at joint 11.

LOAD CASE(S) Standard



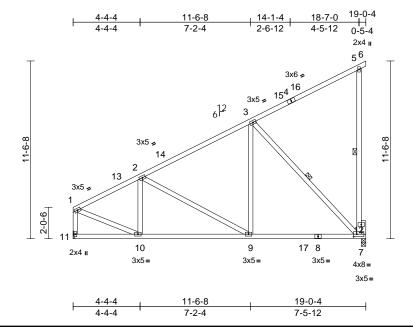
January 14,2025



Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A09	Jack-Closed	9	1	Job Reference (optional)	170703577

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:10 ID:A8hi8MQqZELyokoRdb4kUlzw3L7-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.9

Plate Offsets (X, Y): [7:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.13	7-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.21	7-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 129 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1

BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

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.

WEBS 1 Row at midpt 5-7, 3-7

REACTIONS (size) 7=0-3-8, 11= Mechanical

Max Horiz 11=250 (LC 14)

Max Uplift 7=-115 (LC 14) Max Grav 7=965 (LC 5), 11=823 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-930/0, 2-3=-733/0, 3-5=-153/84,

5-6=-19/0, 1-11=-811/0

BOT CHORD 10-11=-300/172, 9-10=-224/889,

WEBS 5-7=-304/128, 2-10=-172/48, 2-9=-274/139,

3-9=0/472, 1-10=0/810, 3-7=-933/165

NOTES

- 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) exterior zone and C-C Exterior(2E) 3-1-12 to 6-1-12, Interior (1) 6-1-12 to 17-9-5, Exterior(2R) 17-9-5 to 22-0-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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

- 3) Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf. Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

January 14,2025

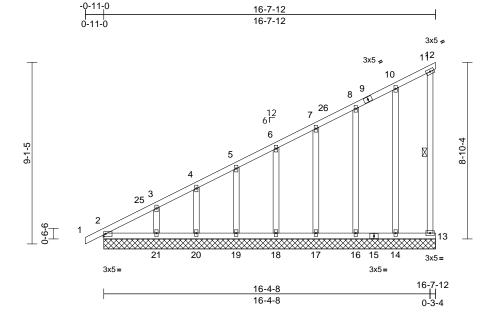
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH		
25010025-01	A08	Monopitch Supported Gable	1	1	Job Reference (optional)	170703578	

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:10 ID:SKOx3Fswxc5FqvReZ?GUmXzw3N8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							1	
BCDL	10.0										Weight: 111 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS OTHERS 2x4 SP No.3

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.

WERS 1 Row at midpt 11-13 **REACTIONS** (size) 2=16-7-12, 12=16-7-12, 13=16-7-12, 14=16-7-12,

> 16=16-7-12. 17=16-7-12. 18=16-7-12, 19=16-7-12, 20=16-7-12, 21=16-7-12

Max Horiz 2=322 (LC 13)

Max Uplift 12=-93 (LC 14), 13=-172 (LC 13), 14=-56 (LC 14), 16=-40 (LC 14), 17=-46 (LC 14), 18=-42 (LC 14),

19=-48 (LC 14), 20=-28 (LC 14),

21=-90 (LC 14)

Max Grav 2=200 (LC 26), 12=121 (LC 13), 13=151 (LC 10), 14=234 (LC 21), 16=231 (LC 21), 17=175 (LC 21),

18=159 (LC 1), 19=164 (LC 21), 20=146 (LC 1), 21=205 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-273/295, 3-4=-237/261,

4-5=-215/251, 5-6=-190/233, 6-7=-177/217, 7-8=-163/200, 8-10=-155/190, 10-11=-116/146, 11-12=-96/54,

11-13=-186/123

BOT CHORD 2-21=-217/268, 20-21=-106/176,

19-20=-106/176, 18-19=-106/176, 17-18=-106/176, 16-17=-106/176, 14-16=-106/176, 13-14=-106/176

WEBS

10-14=-194/66, 8-16=-192/114, 7-17=-135/91, 6-18=-126/94, 5-19=-130/97, 4-20=-113/82, 3-21=-171/136

NOTES

- 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) exterior zone and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 16-7-12 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 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 8) 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.
- 10) * 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.
- 11) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 12, 172 lb uplift at joint 13, 56 lb uplift at joint 14, 40 lb uplift at joint 16, 46 lb uplift at joint 17, 42 lb uplift at joint 18, 48 lb uplift at joint 19, 28 lb uplift at joint 20 and 90 lb uplift at joint 21.

LOAD CASE(S) Standard



January 14,2025

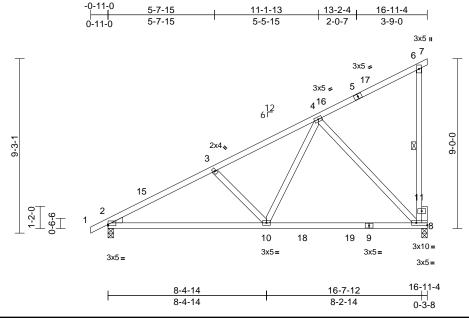
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A07	Monopitch	7	1	Job Reference (optional)	170703579

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:10 ID:OR_Gw6gWU?CNXbomBMVzfNzw3NN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:61.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.29	8-10	>692	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt REACTIONS 2=0-3-8, 8=0-3-8 (size)

Max Horiz 2=328 (LC 11)

Max Uplift 2=-80 (LC 14), 8=-157 (LC 14)

Max Grav 2=786 (LC 5), 8=869 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-1115/191, 3-4=-921/169,

4-6=-185/132, 6-7=-19/0, 6-8=-260/77

BOT CHORD 2-10=-281/1149, 8-10=-105/637 WEBS 3-10=-339/179, 4-10=-44/653, 4-8=-783/199

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph: TCDL=6.0psf: BCDL=6.0psf: h=25ft: Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 13-11-4, Exterior(2E) 13-11-4 to 16-11-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



January 14,2025

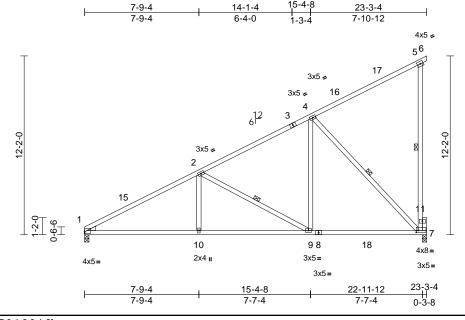
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	Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
2	25010025-01	A06	Monopitch	3	1	Job Reference (optional)	170703580

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun. Jan. 12.15:39:10 ID:yc_0TLAgDO7IBnTzZNHQmjzw3Qc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:78.4

Plate Offsets (X, Y): [1:Edge,0-1-4], [7:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.15	7-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.25	7-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 1-3:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 5-7:2x4 SP No.1,

7-4:2x4 SP No.2 **OTHERS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.

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

bracing.

5-7, 2-9, 4-7 1 Row at midpt

REACTIONS (size) 1=0-3-8, 7=0-3-8

Max Horiz 1=438 (LC 11)

Max Uplift 1=-87 (LC 14), 7=-212 (LC 14)

Max Grav 1=1011 (LC 5), 7=1189 (LC 5) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-1626/183, 2-4=-969/176, 4-5=-244/176,

5-6=-19/0, 5-7=-356/102

BOT CHORD 1-10=-395/1669, 9-10=-252/1669,

7-9=-122/929

WEBS 2-10=0/308, 2-9=-841/202, 4-9=-15/710,

4-7=-1166/253

NOTES

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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 20-3-4, Exterior(2E) 20-3-4 to 23-3-4 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- 3) Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 7 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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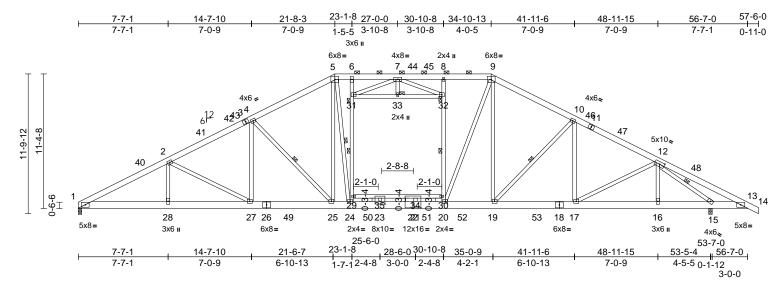
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A05	Piggyback Base	2	1	Job Reference (optional)	170703581

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:09 ID:eeuob3rluvODc1e1g_qsrkzw3SJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:97.4

Plate Offsets (X, Y): [12:0-4-13,0-2-8], [22:0-8-0,0-0-10], [35:0-5-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.22	25-27	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.36	25-27	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.10	15	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 540 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x8 SP 2400F 2 0F

WEBS 2x4 SP 2400F 2.0E *Except* 15-12:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-3 oc purlins, except

2-0-0 oc purlins (5-7-1 max.): 5-9. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 4-25, 10-19, 24-31, 1 Row at midpt

20-32, 5-24, 12-15

JOINTS 1 Brace at Jt(s): 31,

32, 33

REACTIONS (size) 1=0-3-8, 15=0-3-8

Max Horiz 1=-187 (LC 15)

Max Uplift 1=-128 (LC 14), 15=-161 (LC 15) Max Grav 1=2471 (LC 47), 15=2801 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5499/262, 2-4=-4771/258,

4-5=-3946/256, 5-6=-3474/251, 6-7=-3459/250, 7-8=-3459/251,

8-9=-3475/252, 9-10=-3722/262 10-12=-4117/219, 12-13=-556/154,

13-14=0/25

BOT CHORD 1-28=-283/4860, 27-28=-283/4860,

25-27=-119/4148, 24-25=0/3311,

23-24=0/3329, 21-23=0/3329, 20-21=0/3329, 19-20=0/3110, 17-19=0/3569, 16-17=0/3012,

15-16=0/3013, 13-15=-27/410

WEBS 2-28=0/310, 4-27=-19/685, 2-27=-820/186,

5-25=-305/1050, 4-25=-1200/258, 10-17=-62/190, 10-19=-655/200, 12-16=-166/111, 12-17=-9/630,

9-19=-184/742. 24-29=-373/339. 29-31=-379/348, 6-31=-228/412,

20-30=-534/174, 30-32=-530/181 8-32=-367/135, 5-24=-471/947, 29-35=-4/70, 34-35=-4/70, 30-34=-4/70, 9-20=-101/980,

31-33=-100/411, 32-33=-100/411, 7-33=-6/1, 7-31=-492/123, 7-32=-459/127,

21-34=-36/36, 23-35=-24/42,

12-15=-3360/241

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 5-7-14, Interior (1) 5-7-14 to 13-8-3, Exterior(2R) 13-8-3 to 42-10-13, Interior (1) 42-10-13 to 51-10-2, Exterior(2E) 51-10-2 to 57-6-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 27-0-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.

- 8) All plates are 4x5 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 15. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



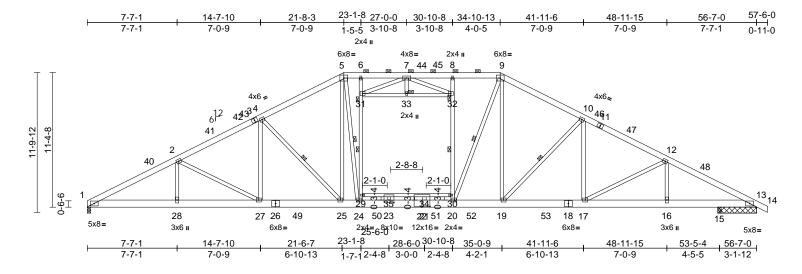
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A04	Piggyback Base	1	1	Job Reference (optional)	

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:09 ID:KPHA9_KGZBW5Vg?pIXZJkAzw3UH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:97.4

Plate Offsets (X, Y):	[22:0-8-0,0-0-10],	[35:0-5-0,0-2-12]
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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	0.26	Vert(LL)	-0.22	25-27	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.37	19-20	>999	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.12	13	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							1	
BCDL	10.0	1									Weight: 532 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x8 SP 2400F 2 0F **WEBS** 2x4 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-6 oc purlins, except 2-0-0 oc purlins (5-5-4 max.): 5-9.

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

bracing.

WEBS 4-25, 10-19, 24-31, 1 Row at midpt 20-32, 5-24, 9-20

JOINTS 1 Brace at Jt(s): 31,

32, 33

REACTIONS (size)

1=0-3-8, 13=3-3-8, 15=0-3-8

Max Horiz 1=-187 (LC 19)

Max Uplift 1=-130 (LC 14), 13=-34 (LC 15),

15=-126 (LC 15)

Max Grav 1=2539 (LC 47), 13=1393 (LC 47),

15=1374 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5665/281, 2-4=-4935/276,

4-5=-4117/276, 5-6=-3651/271, 6-7=-3623/269, 7-8=-3654/274, 8-9=-3658/273, 9-10=-3993/293

10-12=-4587/273, 12-13=-4428/222

13-14=0/25

BOT CHORD 1-28=-286/5008, 27-28=-286/5008,

25-27=-122/4295, 24-25=0/3465, 23-24=0/3514, 21-23=0/3514, 20-21=0/3514,

19-20=0/3348, 17-19=-29/4011,

16-17=-81/3836, 15-16=-81/3836,

13-15=-81/3836

WEBS 2-28=0/311, 4-27=-19/676, 2-27=-821/186,

5-25=-304/982, 4-25=-1191/258, 10-17=0/375, 10-19=-948/206, 12-16=-458/123, 12-17=0/297, 9-19=-187/944, 24-29=-441/280

29-31=-450/286, 6-31=-289/353, 20-30=-503/176, 30-32=-495/182

8-32=-338/136, 5-24=-306/1119, 29-35=-4/66, 34-35=-4/66, 30-34=-4/66, 9-20=-97/875, 31-33=-100/408, 32-33=-100/408, 7-33=-6/1,

7-31=-502/122, 7-32=-445/127, 21-34=-27/45, 23-35=-34/33

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 5-7-14, Interior (1) 5-7-14 to 13-8-3, Exterior(2R) 13-8-3 to 42-10-13, Interior (1) 42-10-13 to 51-10-2, Exterior(2E) 51-10-2 to 57-6-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 27-0-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding. All plates are 4x5 MT20 unless otherwise indicated.

- 9) 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13, 1, and 15. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 14,2025

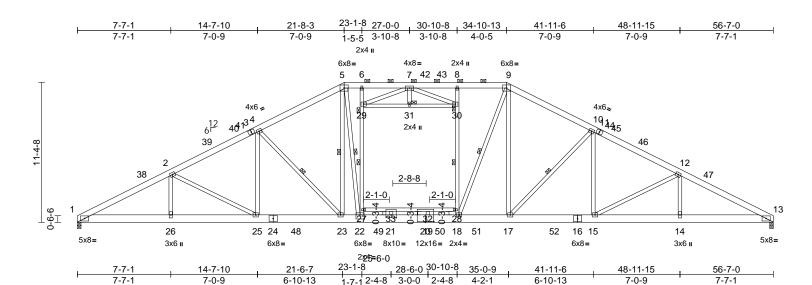
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A03	Piggyback Base	1	1	Job Reference (optional)	70703583

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:09 ID:ZbGjvR0aSWNe?qb?KndSDuzw3Ug-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:93.7

Plate Offsets (X, Y): [20:0-8-0,0-0-10], [22:0-4-0,0-4-0], [33:0-5-0,0-2-12]

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	0.19	Vert(LL)	-0.25	17-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.45	17-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.13	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0	1		1							Weight: 529 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD** 2x8 SP 2400F 2 0F **WEBS** 2x4 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-8 oc purlins, except 2-0-0 oc purlins (5-3-3 max.): 5-9.

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

bracing.

WEBS 5-23, 4-23, 10-17, 22-29, 1 Row at midpt

18-30, 5-22, 9-18 1 Brace at Jt(s): 29,

JOINTS 30, 31

REACTIONS (size) 1=0-3-8, 13=0-3-8

Max Horiz 1=172 (LC 14)

Max Uplift 1=-126 (LC 14), 13=-135 (LC 15) Max Grav 1=2614 (LC 46), 13=2613 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5852/293, 2-4=-5121/288,

4-5=-4310/288, 5-6=-3855/285, 6-7=-3812/282, 7-8=-3877/288,

8-9=-3868/287, 9-10=-4305/314, 10-12=-5118/307, 12-13=-5848/314

BOT CHORD 1-26=-285/5172, 25-26=-285/5172,

23-25=-121/4458, 22-23=0/3636, 21-22=0/3724, 19-21=0/3724, 18-19=0/3724,

17-18=0/3623, 15-17=-83/4455, 14-15=-193/5168, 13-14=-193/5168 **WEBS** 2-26=0/312, 4-25=-19/666, 2-25=-822/186, 5-23=-309/915, 4-23=-1182/258,

10-15=0/667, 10-17=-1188/227, 12-14=0/310,

12-15=-820/196, 9-17=-212/1207, 22-27=-515/226, 27-29=-529/230, 6-29=-361/301, 18-28=-465/181,

28-30=-453/188, 8-30=-303/141, 5-22=-189/1325, 27-33=-9/62, 32-33=-9/62,

28-32=-9/62, 9-18=-204/764,

29-31=-100/405, 30-31=-100/405, 7-31=-6/2,

7-29=-514/122. 7-30=-431/128. 19-32=-19/57, 21-33=-45/25

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 5-7-14, Interior (1) 5-7-14 to 13-8-3, Exterior(2R) 13-8-3 to 42-10-13, Interior (1) 42-10-13 to 50-11-2, Exterior(2E) 50-11-2 to 56-7-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- 200.0lb AC unit load placed on the bottom chord, 27-0-0 5) from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x5 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * 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.

Page: 1

- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 13 and 1. This connection is for uplift only and does not consider lateral forces.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 14,2025

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

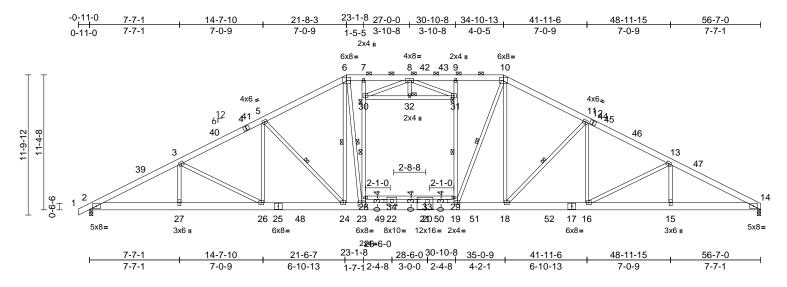
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A02-B	Piggyback Base	5	1	Job Reference (optional)	170703584

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Sun Jan 12.15:39:08

ID:bzprg?XMzDQtHArPGWw8tSzw3Xu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:97.1

Plate Offsets (X, Y):	[23:0-4-0,0-4-4], [33:0-8-0,0-0-	-10], [34:0-5-0,0-2-12]
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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	0.19	Vert(LL)	-0.26	18-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.45	18-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.13	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 532 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x8 SP 2400F 2 0F **WEBS** 2x4 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-9 oc purlins, except

2-0-0 oc purlins (5-3-4 max.): 6-10. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt

JOINTS 1 Brace at Jt(s): 30,

31, 32

REACTIONS (size) 2=0-3-8, 14=0-3-8

Max Horiz 2=187 (LC 18)

Max Uplift 2=-144 (LC 14), 14=-135 (LC 15)

5-24, 6-24, 11-18, 23-30,

19-31, 6-23, 10-19

Max Grav 2=2660 (LC 47), 14=2612 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-5844/277, 3-5=-5117/282,

5-6=-4308/285, 6-7=-3854/282, 7-8=-3811/279, 8-9=-3876/286, 9-10=-3868/284, 10-11=-4304/311,

11-13=-5116/305, 13-14=-5846/312 **BOT CHORD**

2-27=-282/5165, 26-27=-282/5165,

24-26=-120/4455, 23-24=0/3634, 22-23=0/3724, 20-22=0/3724, 19-20=0/3724,

18-19=0/3622, 16-18=-81/4454,

15-16=-191/5167, 14-15=-191/5167

WEBS

3-27=0/311, 3-26=-818/184, 5-26=-18/664, 5-24=-1180/258, 6-24=-308/913,

11-18=-1188/227, 11-16=0/667,

13-16=-820/196, 13-15=0/310,

10-18=-212/1213, 23-28=-521/226, 28-30=-535/229, 7-30=-361/300,

19-29=-464/181, 29-31=-453/188,

9-31=-303/141 6-23=-190/1325

28-34=-9/62, 33-34=-9/62, 29-33=-9/62

10-19=-210/764, 30-32=-100/408,

31-32=-100/408, 8-30=-520/122, 8-32=-6/2

8-31=-436/128, 20-33=-19/58, 22-34=-46/25

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 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) exterior zone and C-C Exterior(2E) -0-11-0 to 4-8-14, Interior (1) 4-8-14 to 13-8-3, Exterior(2R) 13-8-3 to 42-10-13, Interior (1) 42-10-13 to 50-11-2, Exterior(2E) 50-11-2 to 56-7-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 27-0-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding. All plates are 4x5 MT20 unless otherwise indicated.

9) This truss has been designed for a 10.0 psf bottom

11) One H2.5A Simpson Strong-Tie connectors

and does not consider lateral forces.

bottom chord.

LOAD CASE(S) Standard

chord live load nonconcurrent with any other live loads.

on the bottom chord in all areas where a rectangle

* This truss has been designed for a live load of 20.0psf

3-06-00 tall by 2-00-00 wide will fit between the bottom

recommended to connect truss to bearing walls due to

12) Graphical purlin representation does not depict the size

or the orientation of the purlin along the top and/or

UPLIFT at jt(s) 14 and 2. This connection is for uplift only

chord and any other members, with BCDL = 10.0psf.

January 14,2025

Page: 1

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

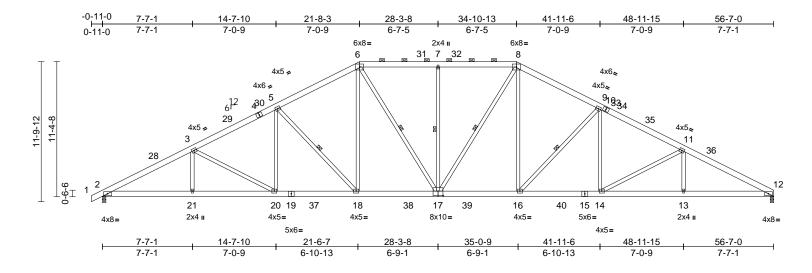
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Job	Truss	Truss Type	Qty	Ply	128 Hidden Lakes North-Roof-Plan 2 GLH	170700505
25010025-01	A02	Piggyback Base	1	1	Job Reference (optional)	170703585

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:08 ID:rvCyn7VUOvT7q?uPF4S3tEzw3d5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:97.1

Plate Offsets	(X,	Y):	: [17:0-5-0,0-4-8]
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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	0.45	Vert(LL)	-0.26	16-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.47	16-17	>999	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.16	12	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 445 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.3 *Except*

18-6,17-6,7-17,17-8,16-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-7 oc purlins, except

2-0-0 oc purlins (3-8-3 max.): 6-8 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-18, 6-17, 7-17, 8-17,

9-16

REACTIONS (size) 2=0-3-8, 12=0-3-8

Max Horiz 2=187 (LC 14)

Max Uplift 2=-248 (LC 14), 12=-230 (LC 15)

Max Grav 2=2605 (LC 47), 12=2559 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-5649/502, 3-5=-4951/513,

5-6=-4161/520, 6-7=-3806/527, 7-8=-3806/527, 8-9=-4162/521

9-11=-4953/517, 11-12=-5654/515

BOT CHORD 2-21=-485/4970, 20-21=-485/4970, 18-20=-324/4306, 16-18=-160/3494

14-16=-271/4308, 13-14=-374/4975,

12-13=-374/4975

WEBS 3-21=0/290, 3-20=-768/183, 5-20=0/648,

5-18=-1166/238, 6-18=-94/1152, 6-17=-144/529, 7-17=-660/187, 8-17=-143/529, 8-16=-95/1154,

9-16=-1168/239, 9-14=-1/649,

11-14=-772/187, 11-13=0/291

NOTES

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

- 2) 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) exterior zone and C-C Exterior(2E) -0-11-0 to 4-8-14, Interior (1) 4-8-14 to 13-8-3, Exterior(2R) 13-8-3 to 42-10-13, Interior (1) 42-10-13 to 50-11-2, Exterior(2E) 50-11-2 to 56-7-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x5 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



January 14,2025

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

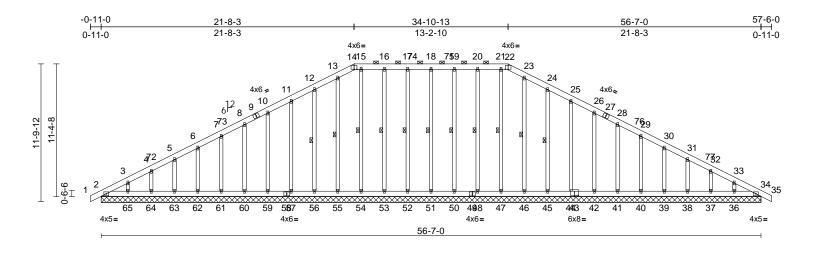
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	s Type Qty Ply		128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A01	Piggyback Base Supported Gable	1	1	Job Reference (optional)	170703586

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries. Inc. Sun Jan 12 15:39:07 $ID: viVwf?sEtcne_sKEeR?dE2zw3dw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:98.8

Plate Offsets (X, Y): [43:0-4-0,0-1-4]													
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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	66	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH									

Loading	(psi	Spacing	1-11-4	CSI		DEFL	ın	(IOC)	I/defi	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/19	90
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	l wB	0.23	Horz(CT)	0.01	66	n/a	n/a			
BCLL	0.0	O* Code	IRC2021/TPI2014	Matrix-	MSH	l ` ´							
BCDL	10.0)									Weight: 548 II	b FT = 20	0%
LUMBER				Max Uplift	2=-17 (LC 10), 3	36=-49 (LC 15	5),	TOP CH	HORD	1-2=0)/24, 2-3=-228/8	31, 3-4=-19	93/80,
TOP CHORD	2x6 SP No.2			·	37=-41 (LC 15),	38=-43 (LC 1	15),			4-5=-	153/92, 5-6=-11	7/103, 6-7	'=-92/122,
BOT CHORD					39=-42 (LC 15),	40=-42 (LC 1	15),			7-8=-7	70/145, 8-10=-6	39/167, 10-	-11=-87/200,
OTHERS	2x4 SP No.3 *Ex	cept*			41=-42 (LC 15),	42=-42 (LC 1	15),			11-12	2=-99/245, 12-13	3=-113/292	2,
		16,54-15,50-19,48-20,47	·-21:		44=-44 (LC 15),	45=-50 (LC 1	15),			13-14	l=-118/309, 14-	15=-111/30	J1,
	2x4 SP No.2				48=-26 (LC 11),	50=-27 (LC 1	10),			15-16	5=-111/301, 16-	17=-111/30	J1,
BRACING					51=-24 (LC 11),	52=-27 (LC 1	10),			17-18	3=-111/301, 18-	19=-111/30	J1,
TOP CHORD	Structural wood	sheathing directly applie	d or		53=-26 (LC 10),					19-20)=-111/301, 20-2	21=-111/30	01,
TOT OTTOTAL	6-0-0 oc purlins,		u oi		56=-48 (LC 14),	57=-43 (LC 1	14),			21-22	2=-111/301, 22-2	23=-118/30	J9,
		(6-0-0 max.): 14-22.			59=-42 (LC 14),						l=-113/292, 24-2		
BOT CHORD		ctly applied or 10-0-0 oc			61=-42 (LC 14),						5=-87/200, 26-28	,	,
	bracing.	.,,,,,			63=-43 (LC 14),	64=-40 (LC 1	14),)=-55/113, 29-30		30-31=-54/25,
WEBS	1 Row at midpt	18-51, 17-52, 16-53	-		65=-51 (LC 14)						?=-76/27, 32-33		
		15-54, 13-55, 12-56		Max Grav	2=148 (LC 55),	,	, ,			33-34	l=-149/64, 34-3	5=0/24	
		19-50, 20-48, 21-47			36=174 (LC 59)								
		23-46, 24-45			38=156 (LC 41)								
REACTIONS	(size) 2=56-	7-0. 34=56-7-0. 36=56-7	·-O		40=176 (LC 45)								
	` '	6-7-0, 38=56-7-0, 39=56-	- /		42=226 (LC 45)								
		6-7-0, 41=56-7-0, 42=56-			45=230 (LC 45)								
		6-7-0, 45=56-7-0, 46=56-	,		47=174 (LC 40)								
		6-7-0, 48=56-7-0, 50=56-			50=211 (LC 40)						ORTH C		
		6-7-0, 52=56-7-0, 53=56-			52=211 (LC 40)						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	111111	
		6-7-0, 55=56-7-0, 56=56-	,		54=178 (LC 56)						WILL C	ARO	11.
		6-7-0, 59=56-7-0, 60=56-			56=230 (LC 43)					1	ORTHU	0/	11/2
	61=56	6-7-0, 62=56-7-0, 63=56-	·7-0,		59=226 (LC 43)					رمر	O' . EES	Elin I	11/2
	64=56	6-7-0, 65=56-7-0			61=176 (LC 43)					25		No.	· 2/
	Max Horiz 2=174	(LC 14)			63=156 (LC 41) 65=174 (LC 58)		43),		_		Q		
			FORCES		kimum Compressi						SE	AI	
				Tension					Ξ		026		: E

January 14,2025

Continued on page 2

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

WARNING - Veniry design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 17/2/2023 BEFORE USE.

Design valid for use only with MITE&® 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 _ANS//TP1 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 Edenton, NC 27932

Job	Truss	Truss Type	Qty Ply 128 Hidden Lakes North-Roof-Plan 2		128 Hidden Lakes North-Roof-Plan 2 GLH	
25010025-01	A01	Piggyback Base Supported Gable	1	1	Job Reference (optional)	70703586

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 12 15:39:07 ID:viVwf?sEtcne_sKEeR?dE2zw3dw-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

2-65=-54/196, 64-65=-54/196, BOT CHORD 63-64=-54/196, 62-63=-54/196, 61-62=-54/196, 60-61=-54/196, 59-60=-54/196, 57-59=-54/196. 56-57=-54/196, 55-56=-54/196, 54-55=-54/196, 53-54=-54/196, 52-53=-54/196. 51-52=-54/196. 50-51=-54/196, 48-50=-54/196, 47-48=-54/196, 46-47=-54/196, 45-46=-54/196. 44-45=-54/196. 42-44=-54/196, 41-42=-54/196, 40-41=-54/196, 39-40=-54/196, 38-39=-54/196, 37-38=-54/196, 36-37=-54/196, 34-36=-54/196 **WEBS** 18-51=-171/55, 17-52=-173/59, 16-53=-174/54, 15-54=-139/10, 13-55=-173/33, 12-56=-191/84, 11-57=-187/77, 10-59=-187/74, 8-60=-184/75, 7-61=-137/75, 6-62=-122/75, 5-63=-123/74, 4-64=-121/105, 3-65=-127/114, 19-50=-173/59, 20-48=-174/54, 21-47=-136/2, 23-46=-173/20, 24-45=-191/84, 25-44=-187/77, 26-42=-187/74, 28-41=-184/75 29-40=-137/75 30-39=-122/75, 31-38=-123/74, 32-37=-121/105, 33-36=-127/114

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) 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) exterior zone and C-C Corner(3E) -0-11-0 to 4-8-14, Exterior(2N) 4-8-14 to 16-0-5, Corner(3R) 16-0-5 to 27-4-2, Exterior (2N) 27-4-2 to 29-2-14, Corner(3R) 29-2-14 to 40-3-8, Exterior(2N) 40-3-8 to 51-10-2, Corner(3E) 51-10-2 to 57-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DDL=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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 24 lb uplift at joint 51, 27 lb uplift at joint 52, 26 lb uplift at joint 53, 10 lb uplift at joint 55, 48 lb uplift at joint 56, 43 lb uplift at joint 57, 42 lb uplift at joint 59, 42 lb uplift at joint 60, 42 lb uplift at joint 61, 42 lb uplift at joint 62, 43 lb uplift at joint 63, 40 lb uplift at joint 64, 51 lb uplift at joint 65, 27 lb uplift at joint 50, 26 lb uplift at joint 48, 50 lb uplift at joint 45, 44 lb uplift at joint 44, 42 lb uplift at joint 42, 42 lb uplift at joint 41, 42 lb uplift at joint 40, 42 lb uplift at joint 39, 43 lb uplift at joint 38, 41 lb uplift at joint 37, 49 lb uplift at joint 36 and 17 lb uplift at joint 2.

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



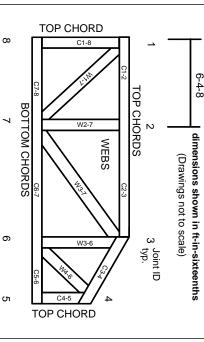
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

Plate Connected Wood Truss Construction.
Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & Bracing of Metal
Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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MiTek

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

RENC

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.