

RE: 4493324
WHITE OAK HOMES

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: WHITE OAK HOMES Project Name: 4493324
Lot/Block: 4 Model: THE MARIE
Address: Subdivision: CAMERON HILL RD
City: CAMERON State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 33 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I71630625	A01	2/26/2025	21	I71630645	PB02	2/26/2025
2	I71630626	A02	2/26/2025	22	I71630646	PB03	2/26/2025
3	I71630627	A03	2/26/2025	23	I71630647	V01	2/26/2025
4	I71630628	A04	2/26/2025	24	I71630648	V02	2/26/2025
5	I71630629	A05	2/26/2025	25	I71630649	V03	2/26/2025
6	I71630630	A06	2/26/2025	26	I71630650	V04	2/26/2025
7	I71630631	A07	2/26/2025	27	I71630651	V05	2/26/2025
8	I71630632	B01	2/26/2025	28	I71630652	V06	2/26/2025
9	I71630633	B02	2/26/2025	29	I71630653	V07	2/26/2025
10	I71630634	B03	2/26/2025	30	I71630654	V08	2/26/2025
11	I71630635	B04	2/26/2025	31	I71630655	V09	2/26/2025
12	I71630636	C01	2/26/2025	32	I71630656	V10	2/26/2025
13	I71630637	C02	2/26/2025	33	I71630657	V11	2/26/2025
14	I71630638	C03	2/26/2025				
15	I71630639	D01	2/26/2025				
16	I71630640	E01	2/26/2025				
17	I71630641	E02	2/26/2025				
18	I71630642	G01	2/26/2025				
19	I71630643	G02	2/26/2025				
20	I71630644	PB01	2/26/2025				

The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Builders FirstSource-Sumter, SC.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



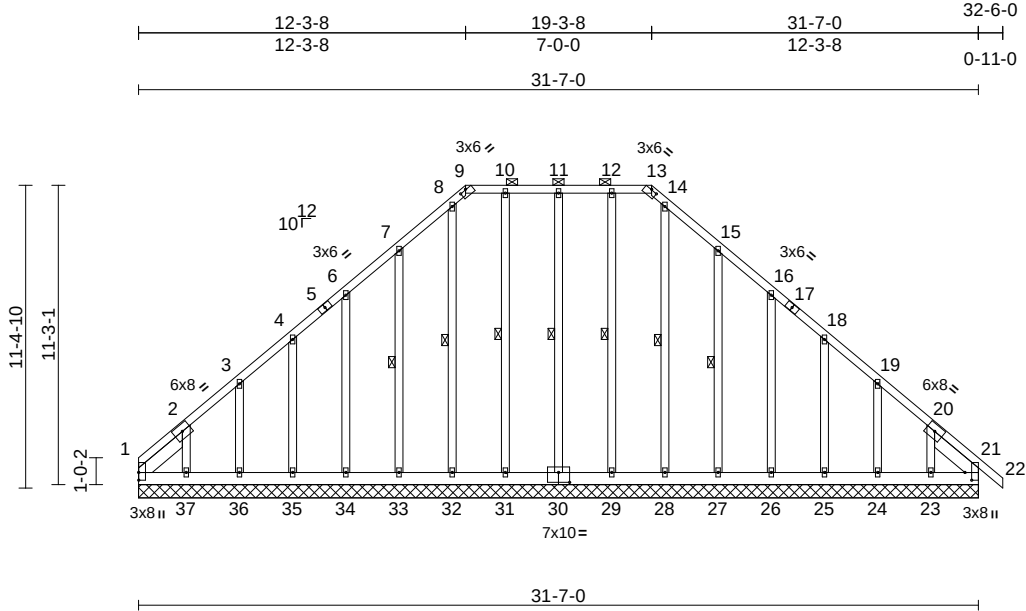
February 26, 2025

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493324	A01	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:47
ID:G1oPnq7JCQy8CBCh26t2YyzlWth-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:86.6

Plate Offsets (X, Y): [1:0-3-8,0-0-1], [9:0-3-0,0-0-4], [13:0-3-0,0-0-4], [21:0-3-8,0-3-1], [30:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	21	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
Weight: 298 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 2-3-1, Right 2x6 SP No.2 -- 2-3-1

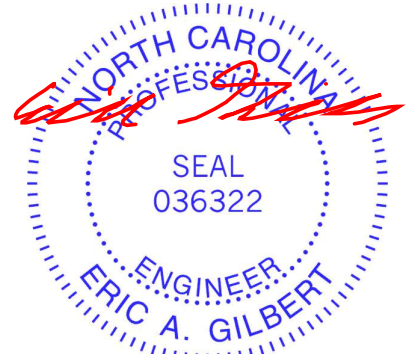
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-30, 10-31, 8-32, 7-33, 12-29, 14-28, 15-27

REACTIONS (size)
1=31-7-0, 21=31-7-0, 23=31-7-0, 24=31-7-0, 25=31-7-0, 26=31-7-0, 27=31-7-0, 28=31-7-0, 29=31-7-0, 30=31-7-0, 31=31-7-0, 32=31-7-0, 33=31-7-0, 34=31-7-0, 35=31-7-0, 36=31-7-0, 37=31-7-0
Max Horiz 1=-360 (LC 8)
Max Uplift 1=-209 (LC 10), 21=-96 (LC 11), 23=-251 (LC 13), 24=-119 (LC 13), 25=-132 (LC 13), 26=-125 (LC 13), 27=-153 (LC 13), 29=-45 (LC 9), 30=-70 (LC 8), 31=-46 (LC 9), 32=-26 (LC 9), 33=-150 (LC 12), 34=-125 (LC 12), 35=-132 (LC 12), 36=-118 (LC 12), 37=-271 (LC 12)
Max Grav 1=388 (LC 12), 21=302 (LC 13), 23=218 (LC 20), 24=186 (LC 20), 25=188 (LC 20), 26=186 (LC 20), 27=197 (LC 20), 28=146 (LC 21), 29=154 (LC 24), 30=163 (LC 23), 31=154 (LC 24), 32=169 (LC 22), 33=193 (LC 19), 34=187 (LC 19), 35=189 (LC 19), 36=183 (LC 19), 37=252 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-143/80, 2-3=-327/242, 3-4=-213/201, 4-6=-155/163, 6-7=-131/171, 7-8=-220/253, 8-9=-196/227, 9-10=-202/243, 10-11=-202/243, 11-12=-202/243, 12-13=-202/243, 13-14=-196/227, 14-15=-220/253, 15-16=-117/132, 16-18=-91/82, 18-19=-155/116, 19-20=-270/187, 20-21=-128/84, 21-22=0/35
BOT CHORD 1-37=-244/356, 36-37=-244/356, 35-36=-244/356, 34-35=-244/356, 33-34=-244/356, 32-33=-244/356, 31-32=-244/356, 29-31=-244/356, 28-29=-244/356, 27-28=-244/356, 26-27=-244/356, 25-26=-244/356, 24-25=-244/356, 23-24=-244/356, 21-23=-244/356
WEBS 11-30=-123/112, 10-31=-114/70, 8-32=-129/50, 7-33=-202/173, 6-34=-176/150, 4-35=-178/152, 3-36=-182/155, 2-37=-226/237, 12-29=-114/69, 14-28=-106/7, 15-27=-202/177, 16-26=-176/150, 18-25=-178/152, 19-24=-182/155, 20-23=-226/222

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-1-14, Exterior (2) 3-1-14 to 12-3-8, Corner (3) 12-3-8 to 15-5-6, Exterior (2) 15-5-6 to 19-3-8, Corner (3) 19-3-8 to 22-5-6, Exterior (2) 22-5-6 to 32-6-0 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

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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.
- 10) All bearings are assumed to be SP No.2 .



February 26, 2025

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493324	A01	Piggyback Base Supported Gable	1	1	I71630625
Job Reference (optional)					

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 1, 96 lb uplift at joint 21, 70 lb uplift at joint 30, 46 lb uplift at joint 31, 26 lb uplift at joint 32, 150 lb uplift at joint 33, 125 lb uplift at joint 34, 132 lb uplift at joint 35, 118 lb uplift at joint 36, 271 lb uplift at joint 37, 45 lb uplift at joint 29, 153 lb uplift at joint 27, 125 lb uplift at joint 26, 132 lb uplift at joint 25, 119 lb uplift at joint 24, 251 lb uplift at joint 23, 209 lb uplift at joint 1 and 96 lb uplift at joint 21.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

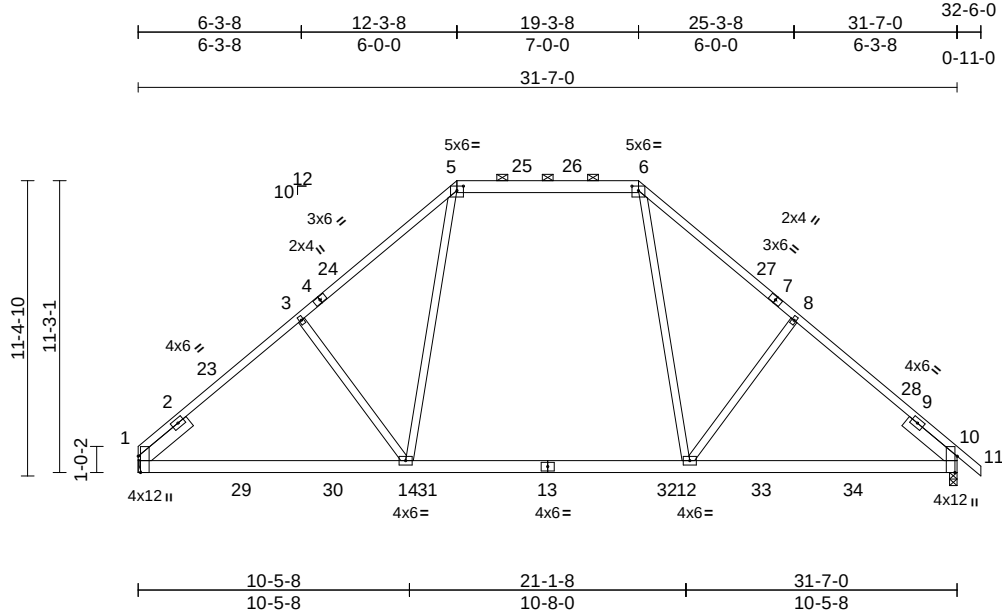
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4493324	A02	Piggyback Base	5	1	Job Reference (optional)	I71630626

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:48
ID:Z03iiqAns0BUDhBmp8948azlYGi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:88.9

Plate Offsets (X, Y): [1:0-7-9,Edge], [5:0-3-0,0-2-1], [6:0-3-0,0-2-1], [10:0-7-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.45	14-17	>834	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.47	14-17	>806	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 204 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 5-6:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-15 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1= Mechanical, 10=0-3-8
Max Horiz	1=-359 (LC 8)
Max Uplift	1=-270 (LC 12), 10=-300 (LC 13)
Max Grav	1=1349 (LC 2), 10=1397 (LC 2)

FORCES

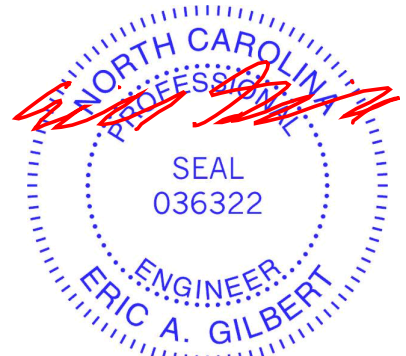
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-1644/490, 3-5=-1510/554, 5-6=-1021/486, 6-8=-1509/548, 8-10=-1643/485, 10-11=0/35
BOT CHORD	1-14=-318/1355, 12-14=-135/1018, 10-12=-204/1207
WEBS	5-14=-119/626, 3-14=-422/420, 6-12=-118/624, 8-12=-422/420

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-1-14, Interior (1) 3-1-14 to 12-3-8, Exterior (2) 12-3-8 to 16-9-2, Interior (1) 16-9-2 to 19-3-8, Exterior (2) 19-3-8 to 23-9-2, Interior (1) 23-9-2 to 32-6-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be : Joint 10 SP 2400F 2.0E or DSS .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 1 and 300 lb uplift at joint 10.
- 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



February 26,2025

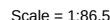
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:48 Page: 1
ID:eG6Wh0OVJkoID3a a8yXCfzlYF8-RfC?PsB70Hq3NSaPqnL8w3ulTXbGKWrcDoI7J4zJC?f



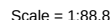
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.09	14-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.19	14-17	>917	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	14-17	>999	240	Weight: 232 lb	FT = 20%

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) top exterior zone and C-C Exterior (2) 0-0-0 to 3-1-14, Interior (1) 3-1-14 to 12-3-8, Exterior (2) 12-3-8 to 16-9-2, Interior (1) 16-9-2 to 19-3-8, Exterior (2) 19-3-8 to 23-9-2, Interior (1) 23-9-2 to 31-7-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 1, 306 lb uplift at joint 13 and 132 lb uplift at joint 11.
- 9) 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



Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:49 Page: 1
ID: yVj876vYeSfOLOTc3bD4lEzIYDA-RfC?PsB70Hg3NSaPantL8w3ulTXbGKWrCDoj7J4zJC?f



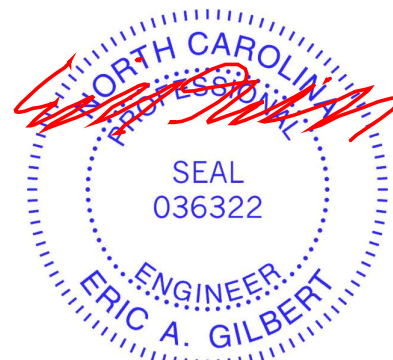
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.15	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.32	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.24	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.13	12-13	>999	240	Weight: 245 lb	FT = 20%

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-4-4 oc purlins, except 2-0-0 oc purlins (4-1-9 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-15.
WEBS	1 Row at midpt 6-13, 3-15, 5-14
REACTIONS	(size) 1= Mechanical, 11=0-3-8, 15=0-3-8
Max Horiz	1=-343 (LC 8)
Max Uplift	1=-572 (LC 19), 11=-250 (LC 13), 15=-514 (LC 12)
Max Grav	1=209 (LC 12), 11=1132 (LC 1), 15=1927 (LC 1)

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone
and C-C Exterior (2) 0-0-0 to 3-1-14, Interior (1) 3-1-14
to 12-3-8, Exterior (2) 12-3-8 to 16-9-2, Interior (1)
16-9-2 to 19-3-8, Exterior (2) 19-3-8 to 23-9-2, Interior
(1) 23-9-2 to 31-7-0 zone; cantilever left and right
exposed ; end vertical left and right exposed; porch left
exposed;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 6) Bearings are assumed to be: , Joint 15 SP No.2 , Joint
11 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 572 lb uplift at joint
1, 250 lb uplift at joint 11 and 514 lb uplift at joint 15.
- 10) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

NOTES

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



February 26, 2025

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-1473 (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 Components Association (www.sbcacompnents.com).

ENGINEERING BY
TRENCO
A Mitek Affiliat

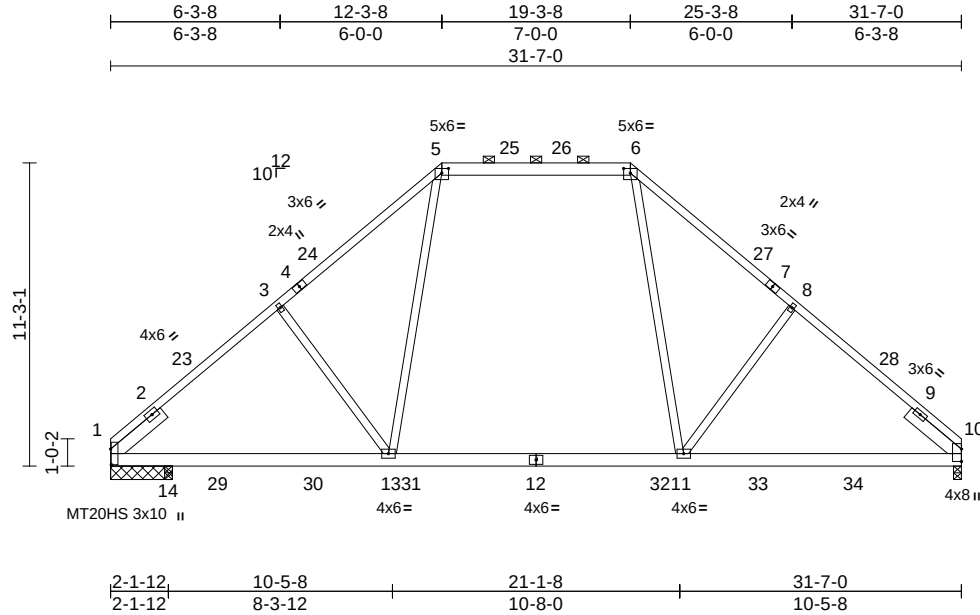
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630629
4493324	A05	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Wed Feb 26 11:22:53
ID:90WrtDhFRiYKM4YbgRkdKczlY38-HgR_ukSOEMS0Kns5B5SGWLQfpwclY_FFqUsuGzhStX

Page: 1



Scale = 1:85.5

Plate Offsets (X, Y): [1:0-6-15,0-0-4], [5:0-3-0,0-2-1], [6:0-3-0,0-2-1]

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	0.34	Vert(LL)	0.31	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.35	11-21	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	-0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								
											Weight: 202 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 5-6:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size)	1=1233/2-3-8, 10=1261/0-3-8, 14=33/0-3-8
Max Horiz	1=-342 (LC 8)
Max Uplift	1=-466 (LC 13), 10=-291 (LC 13), 14=-445 (LC 9)
Max Grav	1=1503 (LC 20), 10=1347 (LC 2), 14=552 (LC 10)

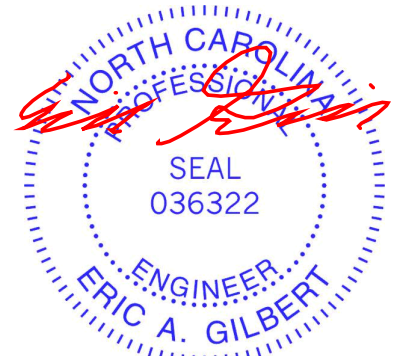
FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1126/509, 2-23=-1635/469, 3-23=-1542/492, 3-4=-1501/514, 4-24=-1449/516, 5-24=-1405/556, 5-25=-1009/487, 25-26=-1009/487, 6-26=-1009/487, 6-27=-1407/549, 7-27=-1454/508, 7-8=-1506/507, 8-28=-1511/485, 9-28=-1639/461, 9-10=-654/50
BOT CHORD	1-14=-252/1243, 14-29=-252/1243, 29-30=-252/1243, 13-30=-252/1243, 13-31=-96/981, 12-31=-96/981, 12-32=-96/981, 11-32=-96/981, 11-33=-232/1205, 33-34=-232/1205, 10-34=-232/1205
WEBS	5-13=-160/664, 3-13=-405/371, 6-11=-125/632, 8-11=-429/410

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-1-14, Interior (1) 3-1-14 to 12-3-8, Exterior (2) 12-3-8 to 16-9-2, Interior (1) 16-9-2 to 19-3-8, Exterior (2) 19-3-8 to 23-9-2, Interior (1) 23-9-2 to 31-7-0 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 466 lb uplift at joint 1, 291 lb uplift at joint 10 and 445 lb uplift at joint 14.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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



February 26,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

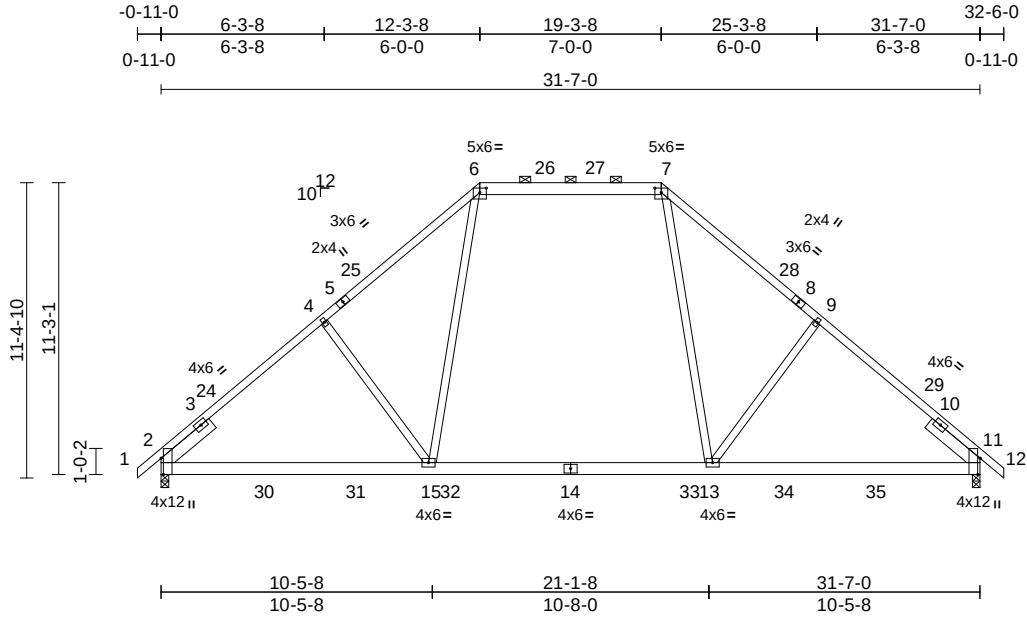
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4493324	A06	Piggyback Base	5	1	Job Reference (optional)	I71630630

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:49

Page: 1

ID: _ixzGIAL0?be9EbH0qS?xZzIY2W-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:88.9

Plate Offsets (X, Y): [2:0-7-9,Edge], [6:0-3-0,0-2-1], [7:0-3-0,0-2-1], [11:0-7-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.45	15-18	>835	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.47	15-18	>809	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 205 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 6-7:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-1-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 11=0-3-8
Max Horiz	2=-367 (LC 10)
Max Uplift	2=-300 (LC 12), 11=-300 (LC 13)
Max Grav	2=1396 (LC 2), 11=1396 (LC 2)

FORCES

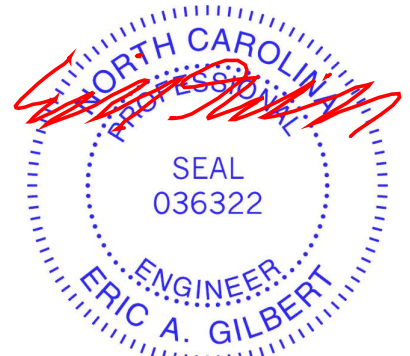
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/35, 2-4=-1641/484, 4-6=-1508/548, 6-7=-1020/484, 7-9=-1508/548, 9-11=-1641/485, 11-12=0/35
BOT CHORD	2-15=-320/1352, 13-15=-135/1016, 11-13=-202/1206
WEBS	6-15=-118/624, 4-15=-422/420, 7-13=-118/624, 9-13=-422/420

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-2-14, Interior (1) 2-2-14 to 12-3-8, Exterior (2) 12-3-8 to 16-9-2, Interior (1) 16-9-2 to 19-3-8, Exterior (2) 19-3-8 to 23-9-2, Interior (1) 23-9-2 to 32-6-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP 2400F 2.0E or DSS .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint 2 and 300 lb uplift at joint 11.
- 8) 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



February 26,2025

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

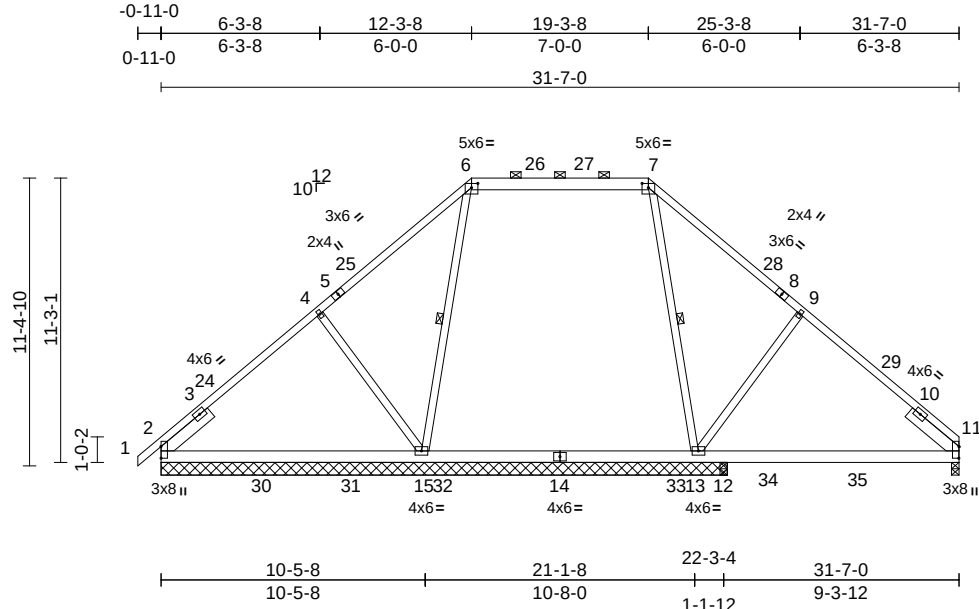
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630631
4493324	A07	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:50
ID:NaCdnqVdjYM7vk9Jy1?BuzIX_y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:91.2

Plate Offsets (X, Y): [2:0-5-9,0-0-1], [6:0-3-0,0-2-1], [7:0-3-0,0-2-1], [11:0-5-9,0-0-1]

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	0.57	Vert(LL)	-0.11	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.16	13-15	>807	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	15-18	>999	240	Weight: 204 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 6-7:2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS	1 Row at midpt 6-15, 7-13
REACTIONS (size)	2=22-5-0, 11=0-3-8, 12=0-3-8, 13=22-5-0, 15=22-5-0
Max Horiz	2=359 (LC 11)
Max Uplift	2=-176 (LC 13), 11=-145 (LC 12), 12=-77 (LC 13), 13=-227 (LC 8), 15=-266 (LC 9)
Max Grav	2=635 (LC 1), 11=571 (LC 2), 12=219 (LC 3), 13=735 (LC 20), 15=893 (LC 19)

FORCES

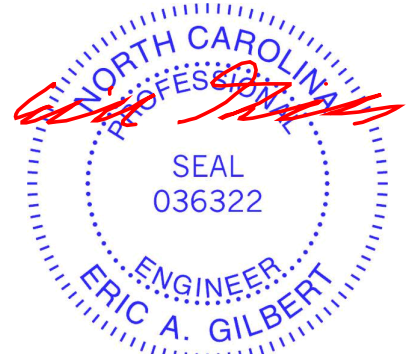
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/35, 2-4=-580/287, 4-6=-557/345, 6-7=-480/336, 7-9=-556/333, 9-11=-568/268
BOT CHORD	2-15=-193/532, 13-15=-114/355, 12-13=-96/424, 11-12=-128/424
WEBS	6-15=-255/229, 4-15=-452/384, 7-13=-256/200, 9-13=-447/381

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-2-14, Interior (1) 2-2-14 to 12-3-8, Exterior (2) 12-3-8 to 16-9-2, Interior (1) 16-9-2 to 19-3-8, Exterior (2) 19-3-8 to 23-9-2, Interior (1) 23-9-2 to 31-7-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2, 145 lb uplift at joint 11, 266 lb uplift at joint 15, 227 lb uplift at joint 13, 77 lb uplift at joint 12 and 176 lb uplift at joint 2.
- 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



February 26,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

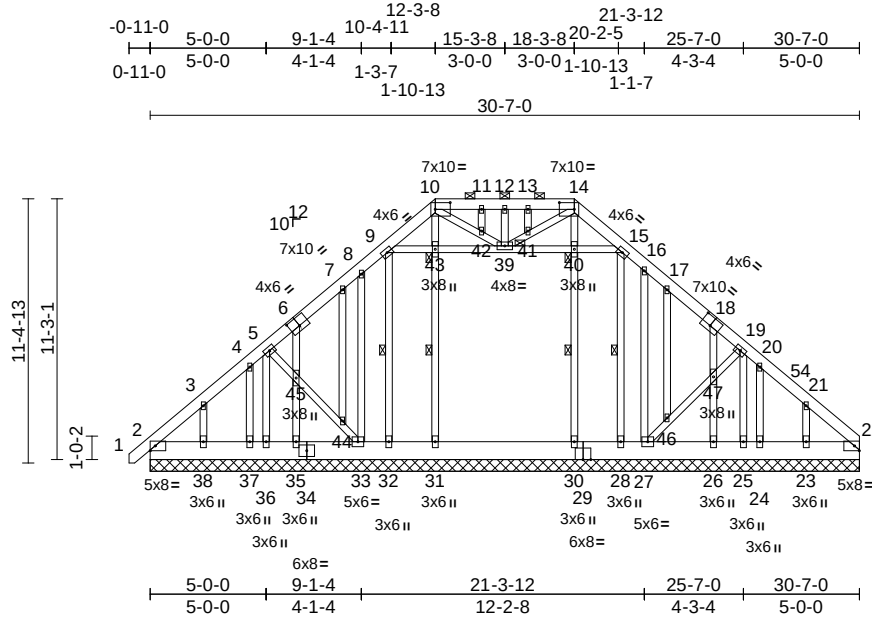
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630632
4493324	B01	Attic	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:50
ID:q6dML6i3ZW2sLVfeJxDFSLzIY?E-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?

Page: 1



Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493324	B01	Attic	1	1	I71630632
Job Reference (optional)					

- 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.
- 10) Ceiling dead load (5.0 psf) on member(s). 9-43, 39-43, 39-40, 15-40; Wall dead load (5.0psf) on member (s).30-40, 31-43
- 11) All bearings are assumed to be SP DSS or 2400F 2.0E .
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2, 29 lb uplift at joint 22, 190 lb uplift at joint 33, 185 lb uplift at joint 27, 12 lb uplift at joint 25, 65 lb uplift at joint 32, 105 lb uplift at joint 35, 219 lb uplift at joint 38, 81 lb uplift at joint 28, 112 lb uplift at joint 26 and 216 lb uplift at joint 23.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

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)



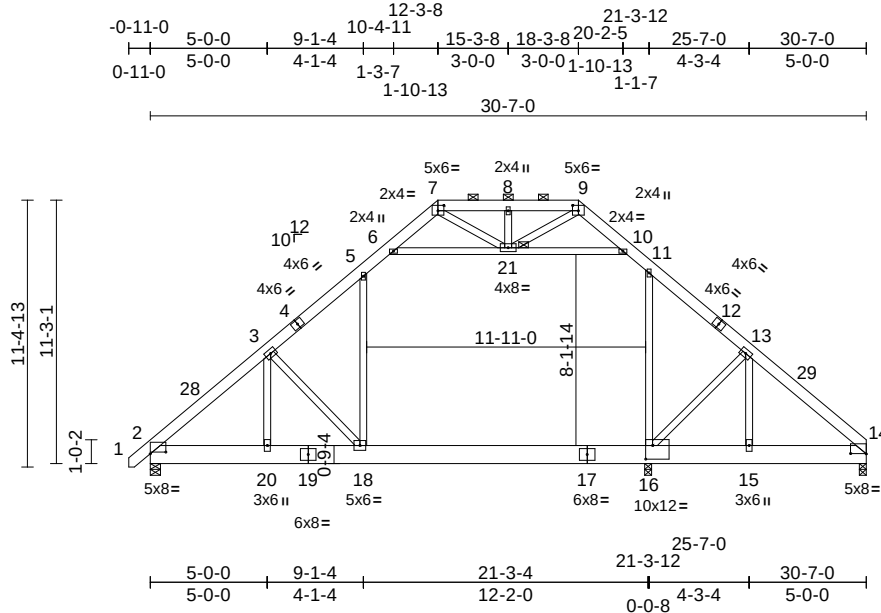
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630633
4493324	B02	Attic	4	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:51
ID:q6dML6i3ZW2sLVfeJxDFSLzIY?E-RfC?PsB70Hq3NSgPqnl8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:98.4

Plate Offsets (X, Y): [2:0-8-0,0-0-14], [7:0-3-0,0-2-12], [9:0-3-0,0-2-12], [14:0-8-0,0-0-2], [16:0-3-8,0-7-0]

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	0.55	Vert(LL)	-0.13	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.22	16-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	16-18	>999	240	Weight: 291 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* 5-18,11-16,6-10:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 21

REACTIONS (size) 2=0-5-4, 14=0-3-8, 16=0-3-8
Max Horiz 2=359 (LC 11)
Max Uplift 2=-203 (LC 12), 14=-179 (LC 12), 16=-260 (LC 8)
Max Grav 2=1602 (LC 20), 14=1370 (LC 20), 16=728 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-1995/230, 3-5=-1881/206, 5-6=-1233/285, 6-7=-386/209, 7-8=-420/267, 8-9=-420/267, 9-10=-395/237, 10-11=-1254/298, 11-13=-1962/327, 13-14=-1719/278

BOT CHORD 2-20=-324/1715, 18-20=-284/1715, 16-18=-165/1490, 15-16=-136/1292, 14-15=-136/1292

WEBS 5-18=-6/846, 11-16=-167/884, 6-21=-1381/267, 10-21=-1482/317, 3-18=-485/339, 13-16=-168/368, 7-21=-110/246, 8-21=-199/129, 9-21=-118/299, 3-20=-168/135, 13-15=-579/43

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-9-9 to 2-3-2, Interior (1) 2-3-2 to 12-3-8, Exterior (2) 12-3-8 to 15-3-8, Interior (1) 15-3-8 to 18-3-8, Exterior (2) 18-3-8 to 21-3-12, Interior (1) 21-3-12 to 30-7-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member (s).5-18, 11-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
- All bearings are assumed to be SP DSS or 2400F 2.0E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 260 lb uplift at joint 16 and 179 lb uplift at joint 14.

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

11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

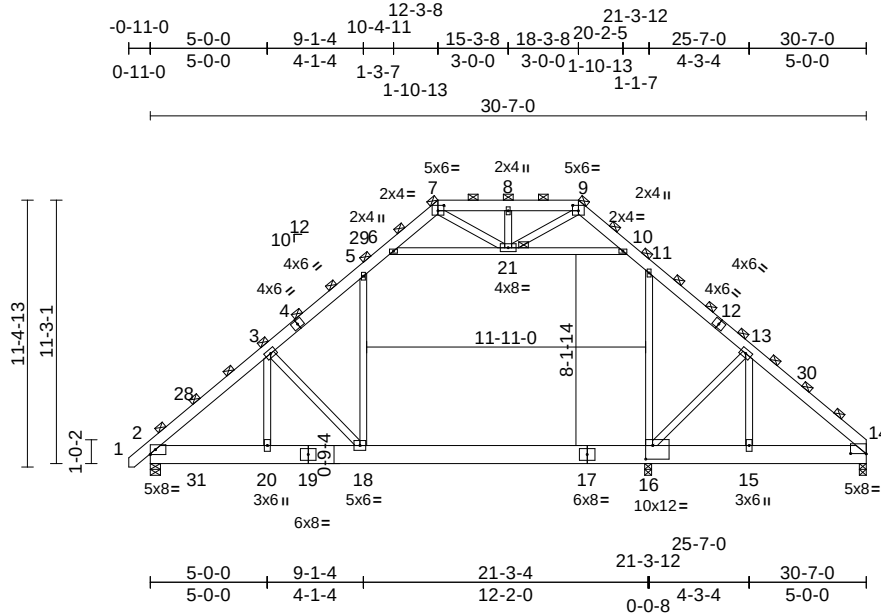
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630634
4493324	B03	Attic	2	3	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:51
ID:q6dML6i3Zw2sLVfeJxDFSLzIY?E-RfC?PsB70Hq3NsgPqnl8w3uITxbGKwRCDoi7J4zJC?

Page: 1



Scale = 1:98.4

Plate Offsets (X, Y): [7:0-3-0,0-2-12], [9:0-3-0,0-2-12], [14:0-8-0,0-0-2], [16:0-3-8,0-7-0]

Loading	(psf)	Spacing	4-6-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.12	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.22	16-18	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	16-18	>999	240	Weight: 872 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS	2x4 SP No.3 *Except* 5-18,11-16,6-10:2x4 SP No.2

BRACING

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 7, 9, 21

REACTIONS

(size)	2=0-5-4, 14=0-3-8, 16=0-3-8
Max Horiz	2=807 (LC 11)
Max Uplift	16=660 (LC 8)
Max Grav	2=5529 (LC 20), 14=4561 (LC 20), 16=1766 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/69, 2-3=-6926/0, 3-5=-5678/0, 5-6=-3505/262, 6-7=-775/548, 7-8=-834/692, 8-9=-834/692, 9-10=-783/620, 10-11=-3557/284, 11-13=-5665/80, 13-14=-5396/0
BOT CHORD	2-20=-319/5568, 18-20=0/5568, 16-18=0/4298, 15-16=0/4072, 14-15=0/4072
WEBS	5-18=0/2812, 11-16=0/2794, 6-21=-4242/0, 10-21=-4523/88, 3-18=-1883/131, 13-16=-438/681, 7-21=-239/564, 8-21=-469/274, 9-21=-229/719, 3-20=0/660, 13-15=-901/188

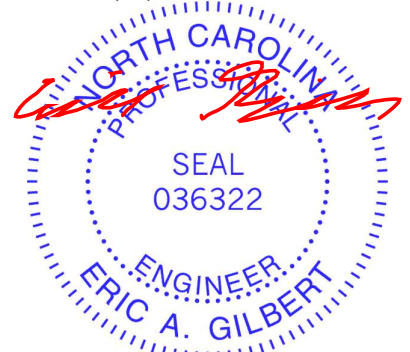
NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-9-9 to 2-3-2, Interior (1) 2-3-2 to 12-3-8, Exterior (2) 12-3-8 to 15-3-8, Interior (1) 15-3-8 to 18-3-8, Exterior (2) 18-3-8 to 21-3-12, Interior (1) 21-3-12 to 30-7-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member (s).5-18, 11-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
- All bearings are assumed to be SP DSS or 2400F 2.0E .

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 660 lb uplift at joint 16.
- Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-28=-135, 6-29=-158, 6-7=-135, 7-9=-135, 9-10=-135, 10-11=-158, 11-14=-135, 22-31=-45, 18-31=-98 (F=-53), 16-18=-68, 16-25=-98 (F=-53), 6-21=-22, 10-21=-22
Drag: 5-18=-22, 11-16=-22
Concentrated Loads (lb)
Vert: 28=-338
Trapezoidal Loads (lb/ft)



February 26,2025

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493324	B03	Attic	2	3	I71630634
Job Reference (optional)					

Vert: 28=-265-to-3=-233, 3=-233-to-4=-219, 4=-219-to-5=-189, 5=-212-to-29=-207

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-28=-113, 6-29=-135, 6-7=-113, 7-9=-113, 9-10=-113, 10-11=-135, 11-14=-113, 22-31=-45, 18-31=-203 (F=-158), 16-18=-203, 16-25=-203 (F=-158), 6-21=-22, 10-21=-22
Drag: 5-18=-22, 11-16=-22
Concentrated Loads (lb)
Vert: 28=-316
Trapezoidal Loads (lb/ft)
Vert: 28=-238-to-3=-206, 3=-206-to-4=-192, 4=-192-to-5=-162, 5=-184-to-29=-180

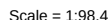
⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:51 Page: 1
ID:a6dML6i3ZW2sLVfeJxDfSLzIY?E-RfC?PsB70Hg3NSaPqnL8w3uITXBGKWRcDoi7J4zJC?r



Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.10	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.17	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TP12014	Matrix-MS		Wind(LL)	0.06	16-18	>999	240	Weight: 581 lb	FT = 20%

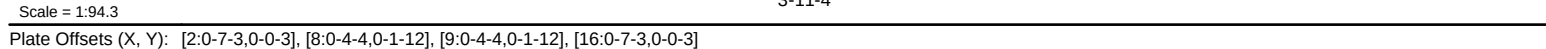
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 DS8-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:52 Page: 1
ID:GYnrFPcJin4MoKMWzzkVdzlX4E-RfC?PsB70Hg3NSgPqnL8w3uITXbGKWRcDoi7J4Cz?i



LUMBER		BOT CHORD	2-25=-366/532, 24-25=-275/532, 22-24=-211/259, 21-22=-59/135, 20-21=-59/135, 19-20=-59/135, 18-19=-59/135, 16-18=-59/135	11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 2, 65 lb uplift at joint 24, 166 lb uplift at joint 22, 181 lb uplift at joint 19, 107 lb uplift at joint 16, 147 lb uplift at joint 21, 118 lb uplift at joint 20, 271 lb uplift at joint 18 and 107 lb uplift at joint 16.
TOP CHORD	2x4 SP No.2			
BOT CHORD	2x4 SP No.2			
WEBS	2x4 SP No.3			
OTHERS	2x4 SP No.3	WEBS	4-25=0/246, 4-27=-522/332, 26-27=-528/328, 24-26=-585/376, 8-24=-257/37, 9-22=-255/178, 22-28=-231/261,	12) Load case(s) 1 has/have been modified. Building
SLIDER	Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0, Right 2x8 SP 2400F 2.0E or DSS -- 2-6-0			

BRACING		28-29=234/265, 13-29=-224/253, 13-19=-185/200, 7-26=-78/65, 6-27=-14/7, 10-28=-187/169, 21-28=-190/173, 11-29=-174/148, 20-29=-163/133, 14-18=-293/262	designer must review loads to verify that they are correct for the intended use of this truss.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 8-9.		13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
WEBS	1 Row at midpt 8-24, 9-22	NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)	LOAD CASE(S) Standard
JOINTS	1 Brace at Jt(s): 26, 27, 28, 29		1) Dead + Roof Live (balanced): Lumber Increase=1.15,

REACTIONS (size)			
	2=0-3-8, 16=15-8-0, 18=15-8-0, 19=15-8-0, 20=15-8-0, 21=15-8-0, 22=15-8-0, 24=15-8-0	Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 11-3-8, Exterior (2) 11-3-8 to 19-10-15, Interior (1) 19-10-15 to 27-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-60, 8-9=-60, 9-17=-60, 25-30=-20, 24-34=-20 Trapezoidal Loads (lb/ft)
Max Horiz	2=-375 (LC 10)		
Max Uplift	2=-237 (LC 12), 16=-107 (LC 12), 18=-271 (LC 13), 19=-181 (LC 11), 20=-118 (LC 13), 21=-147 (LC 13), 22=-166 (LC 8), 24=-65 (LC 12)		
Max Grav	2=570 (LC 1), 16=286 (LC 1), 18=359 (LC 20), 19=252 (LC 22), 20=162 (LC 20), 21=166 (LC 11), 22=413 (LC 21), 24=736 (LC 19)	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.	

FORCES	(lb) - Maximum Compression/Maximum Tension	4) Provide adequate drainage to prevent water ponding.
TOP CHORD	1-2=0/37, 2-4=-566/313, 4-6=-381/352, 6-7=-359/373, 7-8=-381/428, 8-9=-353/371, 9-10=-445/449, 10-11=-345/373, 11-13=-250/300, 13-14=-332/294, 14-16=-165/150, 16-17=0/37	5) All plates are MT20 plates unless otherwise indicated. 6) All plates are 2x4 (I) MT20 unless otherwise indicated. 7) Gable studs spaced at 2-0-0 oc. 8) 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. 10) All bearings are assumed to be SP No.2 .



February 26, 2025

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and 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)

TRENCO ENGINEERING BY
A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493324	C01	Piggyback Base Structural Gable	1	1	I71630636
Job Reference (optional)					

Vert: 4=-61 (F=-1)-to-5=-62 (F=-2), 5=-62 (F=-2)-to-39=-63 (F=-3), 39=-63 (F=-3)-to-6=-63 (F=-3), 6=-63 (F=-3)-to-7=-66 (F=-6), 7=-66 (F=-6)-to-8=-69 (F=-9), 25=-21 (F=-1)-to-24=-29 (F=-9)

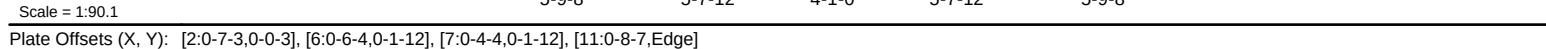
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:52 Page: 1
ID:LeXDDRSVKDaUdXgWsnb2kfzIX9L-RfC?PsB70Hq3NSgPqnL8w3uITxGBKWrCDoi7J4zJC?f



LUMBER		2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 11-3-8, Exterior (2) 11-3-8 to 14-3-8, Interior (1) 14-3-8 to 15-8-0, Exterior (2) 15-8-0 to 18-8-0, Interior (1) 18-8-0 to 27-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	
SLIDER	Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0, Right 2x8 SP 2400F 2.0E or DSS -- 2-6-0	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.	
BOT CHORD	Rigid ceiling directly applied or 9-3-2 oc bracing.	
WEBS	1 Row at midpt 4-16, 6-16, 6-14, 7-14, 9-14	
REACTIONS		3) Provide adequate drainage to prevent water ponding. 4) All plates are MT20 plates unless otherwise indicated. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) All bearings are assumed to be SP No.2 . 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 2, 156 lb uplift at joint 16 and 286 lb uplift at joint 11. 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
(size)	2=0-3-8, 11=0-3-0, 16=0-3-8	
Max Horiz	2=-375 (LC 10)	
Max Uplift	2=-246 (LC 12), 11=-286 (LC 13), 16=-156 (LC 9)	
Max Grav	2=590 (LC 1), 11=733 (LC 1), 16=944 (LC 2)	
FORCES		LOAD CASE(S) Standard
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/37, 2-4=-612/363, 4-6=-463/445, 6-7=-492/536, 7-9=-585/609, 9-11=-697/745, 11-12=0/37	
BOT CHORD	2-17=-363/527, 16-17=-268/527, 14-16=-176/220, 13-14=-383/455, 11-13=-383/455	
WEBS	4-17=0/234, 4-16=-531/363, 6-16=-593/225, 6-14=-385/444, 7-14=-245/145, 9-14=-484/479, 9-13=-262/227	

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.sbccomponents.com)



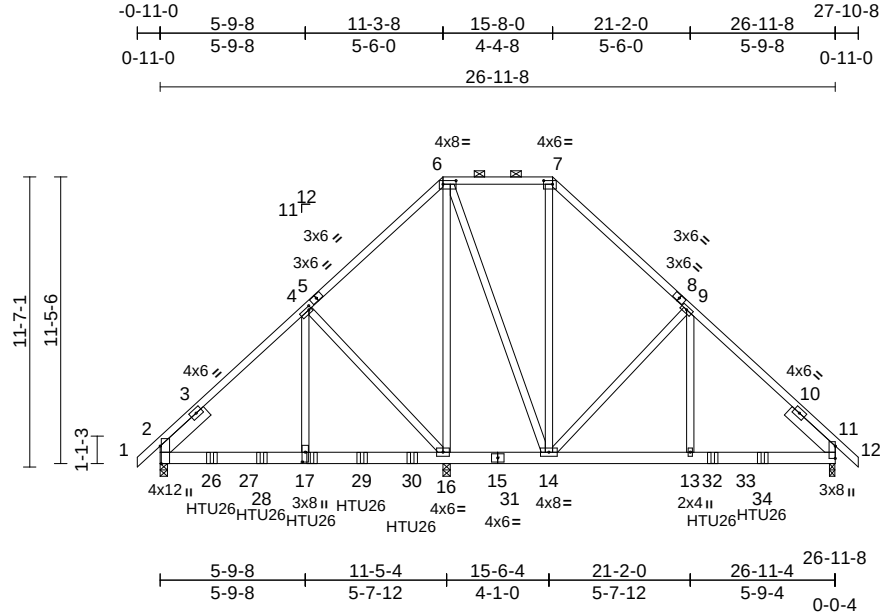
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630638
4493324	C03	Piggyback Base Girder	1	2	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:53
ID:M4G3KmiTIEsmU20wJQrxRwzIX6y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:92

Plate Offsets (X, Y): [2:0-8-7,Edge], [4:0-1-4,0-1-8], [6:0-6-4,0-1-12], [7:0-4-4,0-1-12], [17:0-4-12,0-1-8]

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	0.28	Vert(LL)	-0.05	17-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.09	17-20	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	17-20	>999	240	Weight: 440 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 11=0-2-8, 16=0-3-8
Max Horiz 2=-375 (LC 6)
Max Uplift 2=-772 (LC 8), 11=-729 (LC 9), 16=-1221 (LC 5)
Max Grav 2=3287 (LC 2), 11=300 (LC 16), 16=4959 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=0/428, 1-2=0/37, 2-4=-2681/759, 4-6=-30/526, 7-9=-83/443, 9-11=-505/800, 11-12=0/37
BOT CHORD 2-17=-634/2207, 16-17=-634/2207, 14-16=-376/341, 13-14=-423/125, 11-13=-423/125
WEBS 6-16=-691/329, 6-14=-402/320, 7-14=-402/0, 4-16=-3369/997, 4-17=-842/4181, 9-14=-472/793, 9-13=-727/393

NOTES

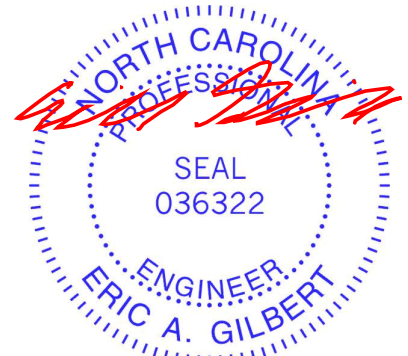
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 772 lb uplift at joint 2, 1221 lb uplift at joint 16 and 729 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 12-0-0 oc max. starting at 2-0-12 from the left end to 24-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)

Vert: 6-7=-60, 18-22=-20, 1-6=-60, 7-12=-60
Concentrated Loads (lb)
Vert: 17=-1243 (B), 26=-1243 (B), 28=-1243 (B), 29=-1243 (B), 30=-1243 (B), 32=307 (B), 34=307 (B)



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

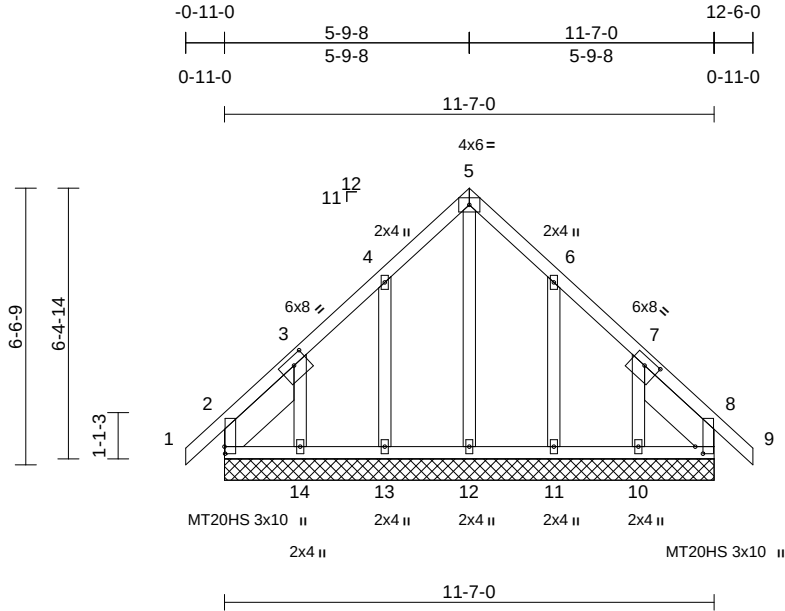
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630639
4493324	D01	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:53
ID:5ECzExuii_uqP9xN2sMg662zIX3c-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:54.5

Plate Offsets (X, Y): [2:0-2-0,0-0-3], [3:0-4-0,0-2-4], [7:0-4-0,0-2-4], [8:0-2-0,0-2-3]

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 87 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E or DSS -- 2-6-2, Right 2x8 SP 2400F 2.0E or DSS -- 2-6-2

BRACING

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

REACTIONS

(size)	2=11-7-0, 8=11-7-0, 10=11-7-0, 11=11-7-0, 12=11-7-0, 13=11-7-0, 14=11-7-0
Max Horiz	2=205 (LC 11)
Max Uplift	2=-79 (LC 8), 8=-32 (LC 9), 10=-210 (LC 13), 11=-146 (LC 13), 13=-147 (LC 12), 14=-221 (LC 12)
Max Grav	2=208 (LC 20), 8=169 (LC 19), 10=199 (LC 20), 11=203 (LC 20), 12=161 (LC 22), 13=204 (LC 19), 14=211 (LC 19)

FORCES

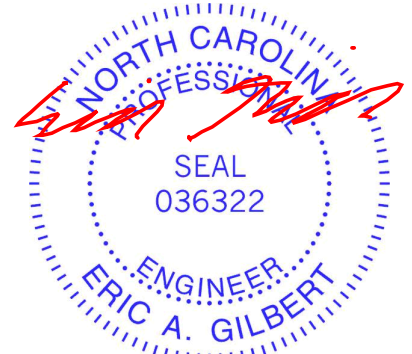
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/37, 2-3=-67/51, 3-4=-127/100, 4-5=-161/176, 5-6=-161/176, 6-7=-86/53, 7-8=-65/50, 8-9=0/37
BOT CHORD	2-14=-109/173, 13-14=-109/173, 12-13=-109/173, 11-12=-109/173, 10-11=-109/173, 8-10=-109/173
WEBS	5-12=-149/80, 4-13=-203/176, 3-14=-225/224, 6-11=-203/174, 7-10=-229/215

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 1-9-8, Exterior (2) 1-9-8 to 5-9-8, Corner (3) 5-9-8 to 8-9-8, Exterior (2) 8-9-8 to 12-6-0 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
- 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.
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 2, 32 lb uplift at joint 8, 147 lb uplift at joint 13, 221 lb uplift at joint 14, 146 lb uplift at joint 11, 210 lb uplift at joint 10, 79 lb uplift at joint 2 and 32 lb uplift at joint 8.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493324	E01	Common Supported Gable	1	1	Job Reference (optional)

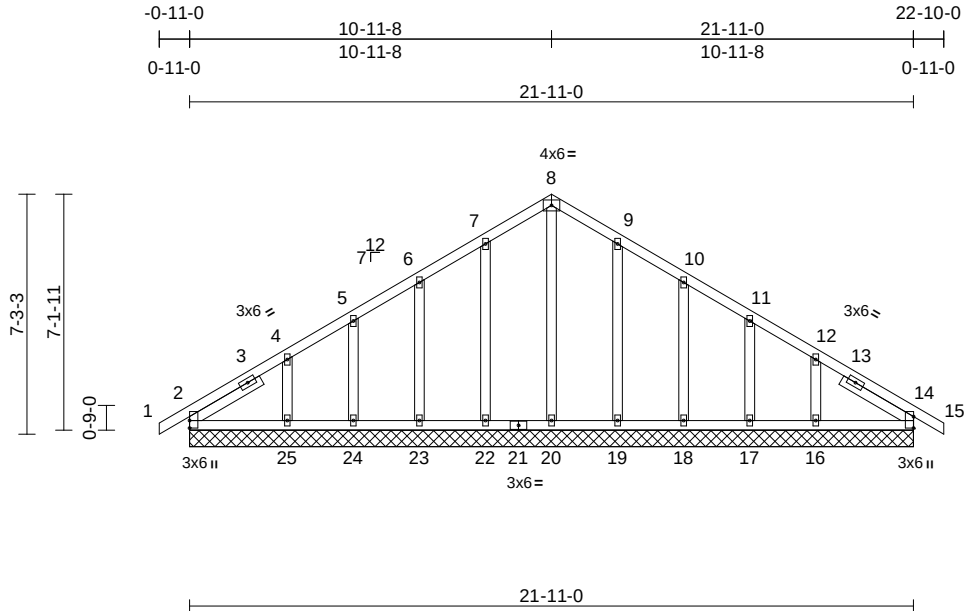
I71630640

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:53

Page: 1

ID:B3H1yS7FlwVvkRMkhAtagSzIWv_-RfC?PsB70Hq3NSgPqnL8w3ulTxhGKWrCDoi7J4zJc?I



Scale = 1:69.8

Plate Offsets (X, Y): [2:Edge,0-0-0], [14:Edge,0-0-0]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 135 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BOT CHORD

2-25=-64/140, 24-25=-64/140,
23-24=-64/140, 22-23=-64/140,
20-22=-64/140, 19-20=-64/140,
18-19=-64/140, 17-18=-64/140,
16-17=-64/140, 14-16=-64/140
8-20=-166/109, 7-22=-148/115,
6-23=-157/122, 5-24=-130/97,
4-25=-218/177, 9-19=-147/113,
10-18=-157/122, 11-17=-131/99,
12-16=-220/169

WEBS

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 13 lb uplift at joint 14, 91 lb uplift at joint 22, 100 lb uplift at joint 23, 66 lb uplift at joint 24, 172 lb uplift at joint 25, 89 lb uplift at joint 19, 100 lb uplift at joint 18, 69 lb uplift at joint 17, 160 lb uplift at joint 16, 52 lb uplift at joint 2 and 13 lb uplift at joint 14.

11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 26.

LOAD CASE(S) Standard**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=21-11-0, 14=21-11-0, 16=21-11-0, 17=21-11-0, 18=21-11-0, 19=21-11-0, 20=21-11-0, 22=21-11-0, 23=21-11-0, 24=21-11-0, 25=21-11-0
Max Horiz	2=231 (LC 11)
Max Uplift	2=-52 (LC 8), 14=-13 (LC 12), 16=-160 (LC 13), 17=-69 (LC 13), 18=-100 (LC 13), 19=-89 (LC 13), 22=-91 (LC 12), 23=-100 (LC 12), 24=-66 (LC 12), 25=-172 (LC 12)
Max Grav	2=209 (LC 20), 14=191 (LC 1), 16=259 (LC 20), 17=151 (LC 20), 18=184 (LC 20), 19=183 (LC 20), 20=187 (LC 13), 22=185 (LC 19), 23=184 (LC 19), 24=147 (LC 19), 25=272 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/28, 2-4=-173/159, 4-5=-154/123, 5-6=-138/157, 6-7=-184/199, 7-8=-238/247, 8-9=-238/247, 9-10=-184/184, 10-11=-126/114, 11-12=-93/63, 12-14=-134/70, 14-15=0/28

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 10-11-8, Corner (3) 10-11-8 to 13-11-8, Exterior (2) 13-11-8 to 22-10-0 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.
- 4) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2.



February 26, 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

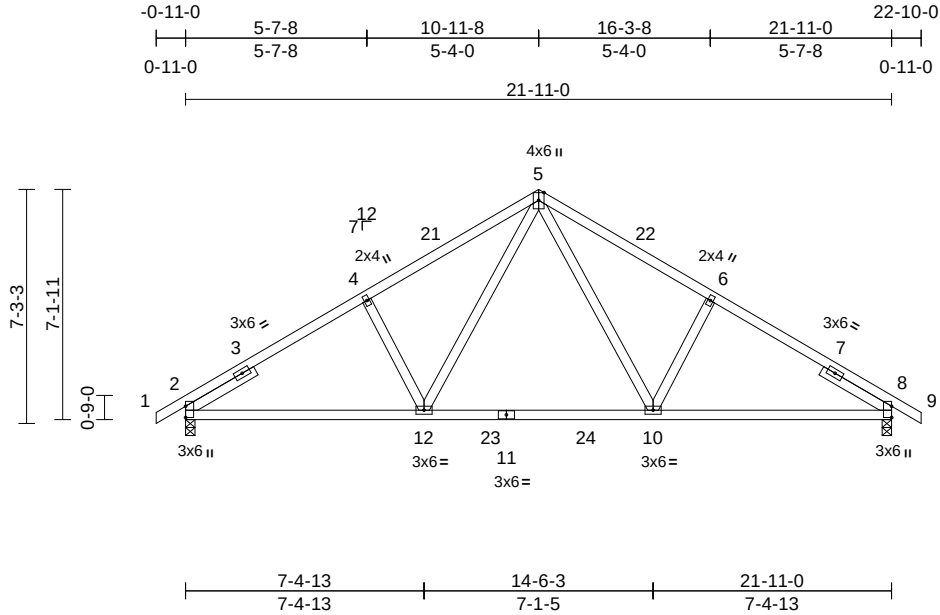
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630641
4493324	E02	Common	6	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:54
ID:0y7teh_LLX6Uw0dYMB?k7zIWv9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:71.5

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

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	0.38	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.19	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	10-12	>999	240	Weight: 115 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	2=0-3-8, 8=0-3-8
	Max Horiz	2=231 (LC 11)
	Max Uplift	2=-253 (LC 12), 8=-253 (LC 13)
	Max Grav	2=932 (LC 1), 8=932 (LC 1)

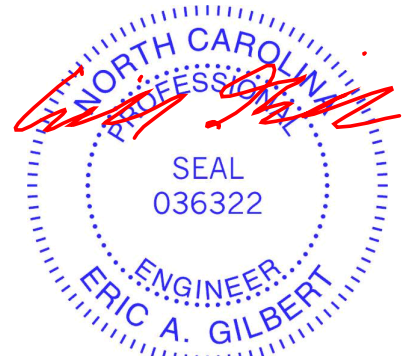
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/28, 2-4=-1204/334, 4-5=-1221/383, 5-6=-1220/383, 6-8=-1204/334, 8-9=0/28
BOT CHORD	2-12=-319/1149, 10-12=-98/770, 8-10=-180/1009
WEBS	5-10=-199/526, 6-10=-340/288, 5-12=-199/526, 4-12=-340/288

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-11-8, Exterior (2) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 22-10-0 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
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 2 and 253 lb uplift at joint 8.

LOAD CASE(S) Standard



February 26, 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

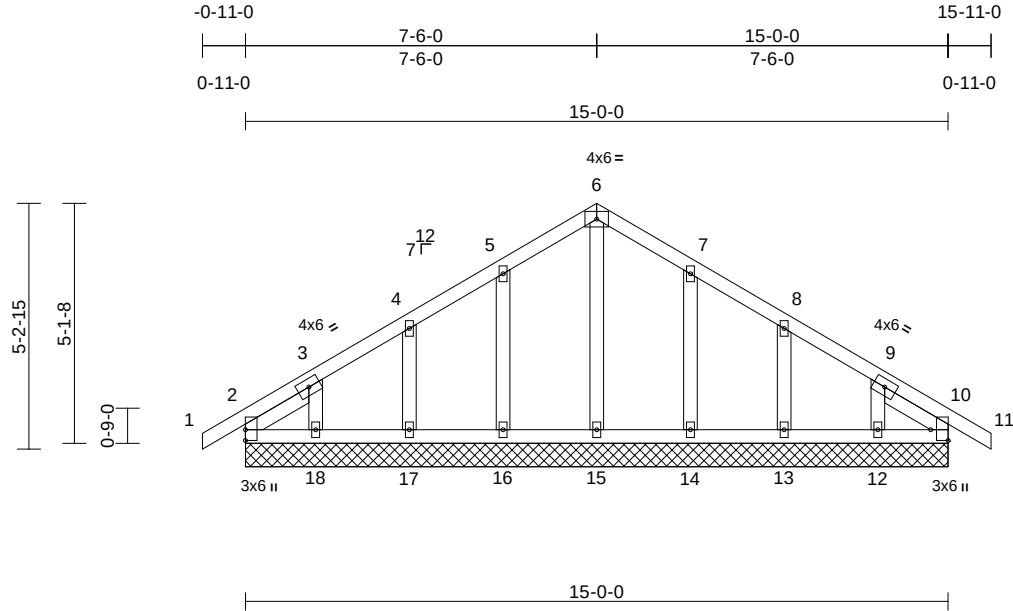
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630642
4493324	G01	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:54
ID:UsEeKLSDTGaysrFheTAZI8zSSFU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:49.2

Plate Offsets (X, Y): [2:Edge,0-0-0], [10:Edge,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
										Weight: 83 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 1-7-9, Right 2x4 SP No.2 -- 1-7-9

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=15-0-0, 10=15-0-0, 12=15-0-0, 13=15-0-0, 14=15-0-0, 15=15-0-0, 16=15-0-0, 17=15-0-0, 18=15-0-0
Max Horiz	2=164 (LC 11)
Max Uplift	2=-56 (LC 8), 10=-12 (LC 9), 12=-108 (LC 13), 13=-92 (LC 13), 14=-95 (LC 13), 16=-97 (LC 12), 17=-91 (LC 12), 18=-120 (LC 12)
Max Grav	2=148 (LC 20), 10=130 (LC 1), 12=160 (LC 20), 13=180 (LC 20), 14=185 (LC 20), 15=156 (LC 22), 16=187 (LC 19), 17=179 (LC 19), 18=174 (LC 19)

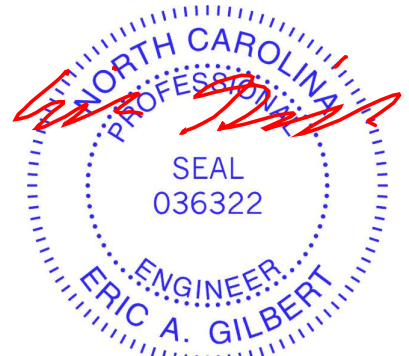
FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/28, 2-3=-40/52, 3-4=-103/93, 4-5=-89/113, 5-6=-142/158, 6-7=-142/158, 7-8=-84/90, 8-9=-56/35, 9-10=-28/36, 10-11=0/28
BOT CHORD	2-18=-63/109, 17-18=-63/109, 16-17=-63/109, 15-16=-63/109, 14-15=-63/109, 13-14=-63/109, 12-13=-63/109, 10-12=-63/109
WEBS	6-15=-116/16, 5-16=-155/120, 4-17=-154/118, 3-18=-153/130, 7-14=-155/119, 8-13=-155/119, 9-12=-156/120

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 7-6-0, Corner (3) 7-6-0 to 10-6-0, Exterior (2) 10-6-0 to 15-11-0 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 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.
- All plates are 2x4 (II) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2, 12 lb uplift at joint 10, 97 lb uplift at joint 16, 91 lb uplift at joint 17, 120 lb uplift at joint 18, 95 lb uplift at joint 14, 92 lb uplift at joint 13, 108 lb uplift at joint 12, 56 lb uplift at joint 2 and 12 lb uplift at joint 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 23.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

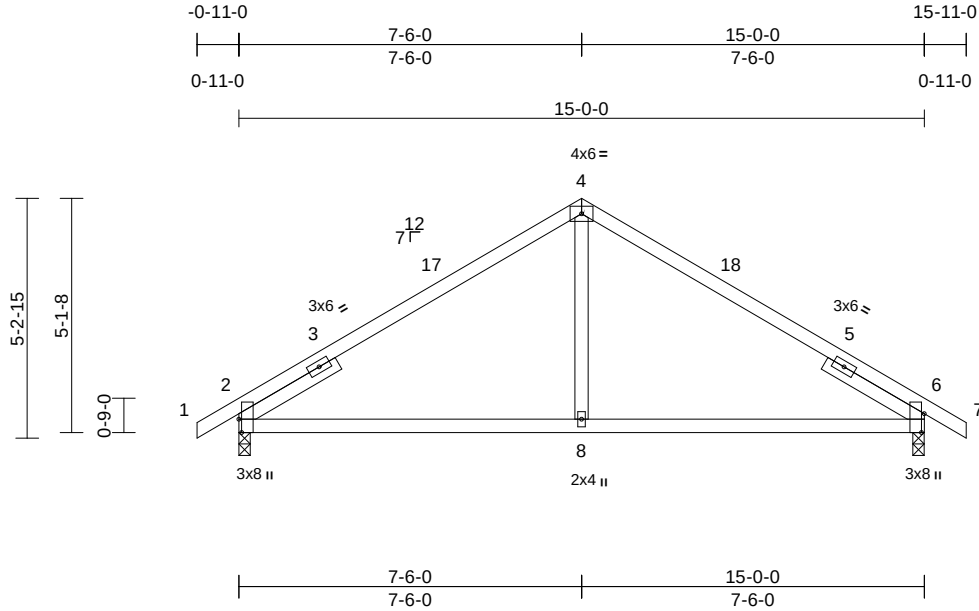
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630643
4493324	G02	Common	5	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:54
ID:YkeITTedxtTqA8uZ07x4OlzSSFF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [6:0-4-15,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	0.69	Vert(LL)	0.16	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.15	8-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.04	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 66 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-6-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-4-12 oc bracing.

REACTIONS

(size)	2=0-3-0, 6=0-3-0
Max Horiz	2=164 (LC 11)
Max Uplift	2=-182 (LC 12), 6=-182 (LC 13)
Max Grav	2=655 (LC 1), 6=655 (LC 1)

FORCES

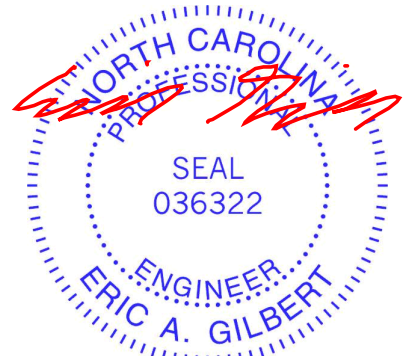
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/28, 2-4=-617/756, 4-6=-617/756, 6-7=0/28
BOT CHORD	2-8=-508/533, 6-8=-508/533
WEBS	4-8=-490/329

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 7-6-0, Exterior (2) 7-6-0 to 10-6-0, Interior (1) 10-6-0 to 15-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 182 lb uplift at joint 6.

LOAD CASE(S) Standard



February 26, 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

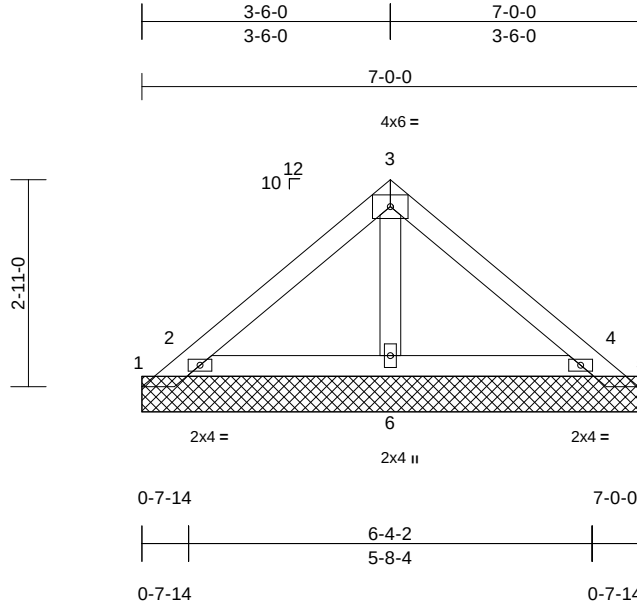
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630644
4493324	PB01	Piggyback	20	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:54
ID:QpWXIFz_yn8SmZhbbCN9E_zIYZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDof7J4zJC?f

Page: 1



Scale = 1:32.5

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 25 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=7'-0-0, 2=7'-0-0, 4=7'-0-0, 5=7'-0-0, 6=7'-0-0
Max Horiz	1=-91 (LC 8)
Max Uplift	1=-171 (LC 19), 2=-198 (LC 12), 4=-170 (LC 13), 5=-118 (LC 20), 6=-8 (LC 12)
Max Grav	1=138 (LC 12), 2=351 (LC 19), 4=303 (LC 20), 5=94 (LC 13), 6=166 (LC 1)

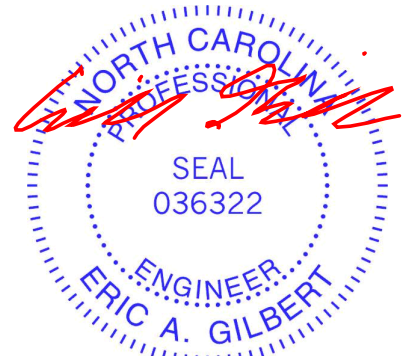
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-144/188, 2-3=-105/76, 3-4=-95/75, 4-5=-60/99
BOT CHORD	2-6=-51/61, 4-6=-51/61
WEBS	3-6=-90/23

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2'-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2, 170 lb uplift at joint 4, 171 lb uplift at joint 1, 118 lb uplift at joint 5, 8 lb uplift at joint 6, 198 lb uplift at joint 2 and 170 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

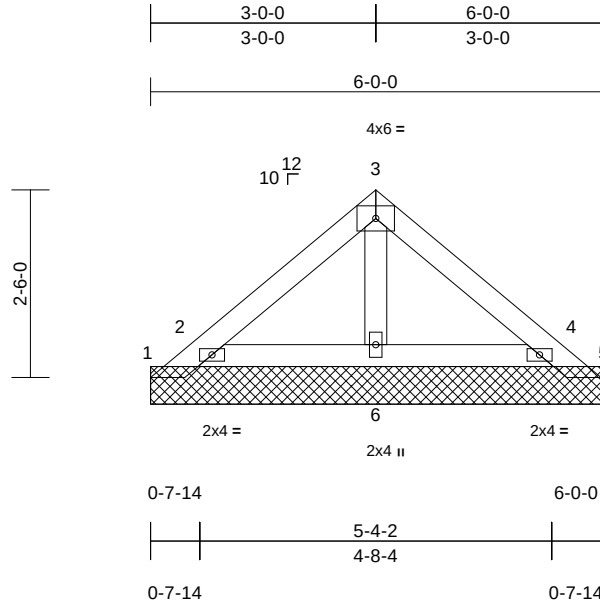
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630645
4493324	PB02	Piggyback	8	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:55
ID:nnJQLz17nKmkTKaZOIzKx1zYJU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwRCDoi7J4zJC?f

Page: 1



Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 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=6'-0-0, 2=6'-0-0, 4=6'-0-0, 5=6'-0-0, 6=6'-0-0
Max Horiz	1=-77 (LC 8)
Max Uplift	1=-122 (LC 19), 2=-155 (LC 12), 4=-132 (LC 13), 5=-78 (LC 20), 6=-2 (LC 12)
Max Grav	1=103 (LC 12), 2=281 (LC 19), 4=238 (LC 20), 5=66 (LC 13), 6=133 (LC 1)

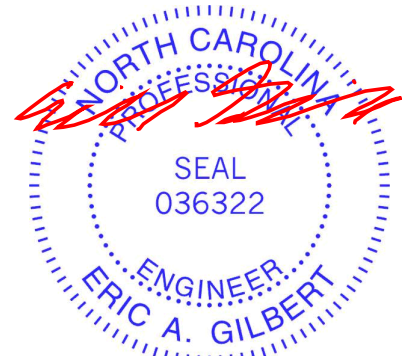
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-116/148, 2-3=-85/62, 3-4=-77/62, 4-5=-44/73
BOT CHORD	2-6=-37/56, 4-6=-37/56
WEBS	3-6=-63/8

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2'-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2, 132 lb uplift at joint 4, 122 lb uplift at joint 1, 78 lb uplift at joint 5, 2 lb uplift at joint 6, 155 lb uplift at joint 2 and 132 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

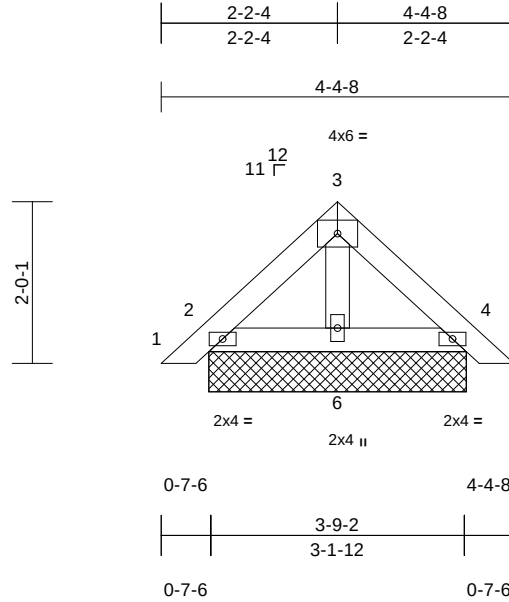
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630646
4493324	PB03	Piggyback	4	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:55
ID:7k6JGg4GbsO1z5SWBIzVd5zIYJP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 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 4-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=3-2-5, 4=3-2-5, 6=3-2-5
Max Horiz 2=60 (LC 11)
Max Uplift 2=-33 (LC 12), 4=-40 (LC 13), 6=-16 (LC 12)
Max Grav 2=99 (LC 1), 4=99 (LC 1), 6=102 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-59/47, 3-4=-56/47, 4-5=0/16
BOT CHORD 2-6=-20/51, 4-6=-20/51
WEBS 3-6=-40/3

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 40 lb uplift at joint 4, 16 lb uplift at joint 6, 33 lb uplift at joint 2 and 40 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 26, 2025

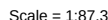
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

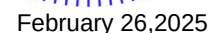
818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:55 Page: 1
ID:YkbtbWKpu?vBA MMVwBRJzIYJ5-RfC?PsB70Hq3NSaPqnL8w3uITXbGKWcRcd0i7J4zJC?f



LUMBER		3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-9 to 3-0-9, Interior (1) 3-0-9 to 12-7-1, Exterior (2) 12-7-1 to 15-7-1, Interior (1) 15-7-1 to 25-1-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
OTHERS	2x4 SP No.3	
BRACING		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.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	4) All plates are 2x4 (II) MT20 unless otherwise indicated.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	5) Gable requires continuous bottom chord bearing.
WEBS	1 Row at midpt 5-12	6) Gable studs spaced at 4-0-0 oc.
REACTIONS (size)	1=25-1-1, 9=25-1-1, 10=25-1-1, 11=25-1-1, 12=25-1-1, 14=25-1-1, 15=25-1-1	7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
	Max Horiz 1=378 (LC 11)	8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
	Max Uplift 1=-101 (LC 10), 9=-15 (LC 11), 10=-313 (LC 13), 11=-302 (LC 13), 14=-300 (LC 12), 15=-320 (LC 12)	9) All bearings are assumed to be SP No.2 .
	Max Grav 1=221 (LC 21), 9=177 (LC 22), 10=509 (LC 20), 11=515 (LC 20), 12=515 (LC 22), 14=514 (LC 19), 15=517 (LC 19)	10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 1, 300 lb uplift at joint 14, 320 lb uplift at joint 15, 302 lb uplift at joint 11, 313 lb uplift at joint 10 and 15 lb uplift at joint 9.
FORCES (lb) - Maximum Compression/Maximum Tension		LOAD CASE(S) Standard
TOP CHORD	1-2=-405/342, 2-4=-189/236, 4-5=-196/286, 5-6=-196/241, 6-8=-90/147, 8-9=-326/290	
BOT CHORD	1-15=-272/339, 14-15=-272/339, 12-14=-272/339, 11-12=-272/339, 10-11=-272/339, 9-10=-272/339	
WEBS	5-12=-315/1, 4-14=-393/356, 2-15=-406/343, 6-11=-393/356, 8-10=-406/340	

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

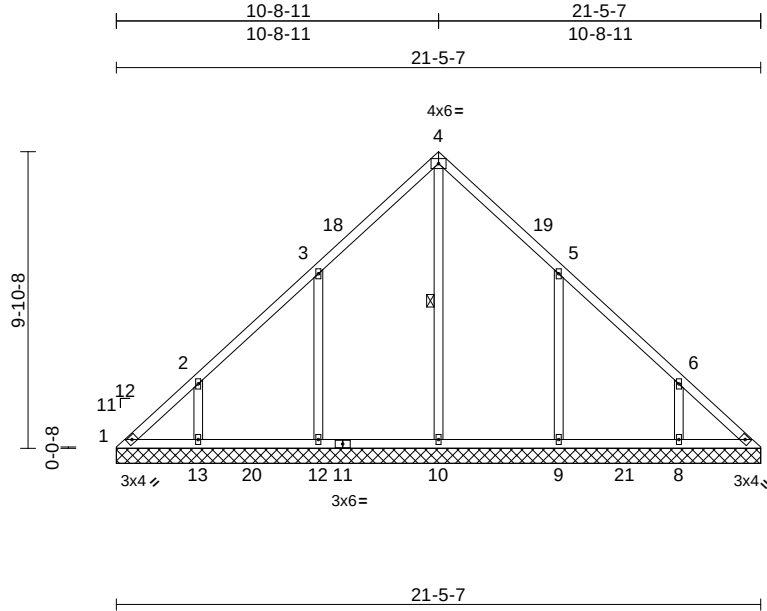


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630648
4493324	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:55
ID:FWwfhwS4X4AmZjIHxc5YrQzYIYx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:76.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 110 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.

WEBS	1 Row at midpt	4-10
------	----------------	------

REACTIONS	(size)	1=21-5-7, 7=21-5-7, 8=21-5-7, 9=21-5-7, 10=21-5-7, 12=21-5-7, 13=21-5-7
	Max Horiz	1=-323 (LC 8)
	Max Uplift	1=-106 (LC 10), 7=-32 (LC 11), 8=-221 (LC 13), 9=-323 (LC 13), 12=-322 (LC 12), 13=-230 (LC 12)
	Max Grav	1=195 (LC 12), 7=151 (LC 22), 8=352 (LC 20), 9=531 (LC 20), 10=435 (LC 22), 12=530 (LC 19), 13=362 (LC 19)

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

TOP CHORD	1-2=-353/266, 2-3=-225/195, 3-4=-248/271, 4-5=-248/233, 5-6=-155/103, 6-7=-288/194
-----------	--

BOT CHORD	1-13=-167/264, 12-13=-167/264, 10-12=-167/264, 9-10=-167/264, 8-9=-167/264, 7-8=-167/264
-----------	--

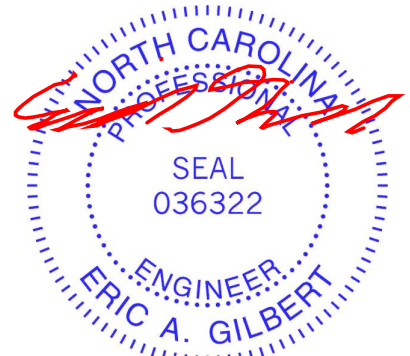
WEBS	4-10=-233/77, 3-12=-413/371, 2-13=-322/274, 5-9=-413/371, 6-8=-322/271
------	--

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-9 to 2-9-4, Interior (1) 2-9-4 to 10-9-4, Exterior (2) 10-9-4 to 13-9-4, Interior (1) 13-9-4 to 21-5-15 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 1, 32 lb uplift at joint 7, 322 lb uplift at joint 12, 230 lb uplift at joint 13, 323 lb uplift at joint 9 and 221 lb uplift at joint 8.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

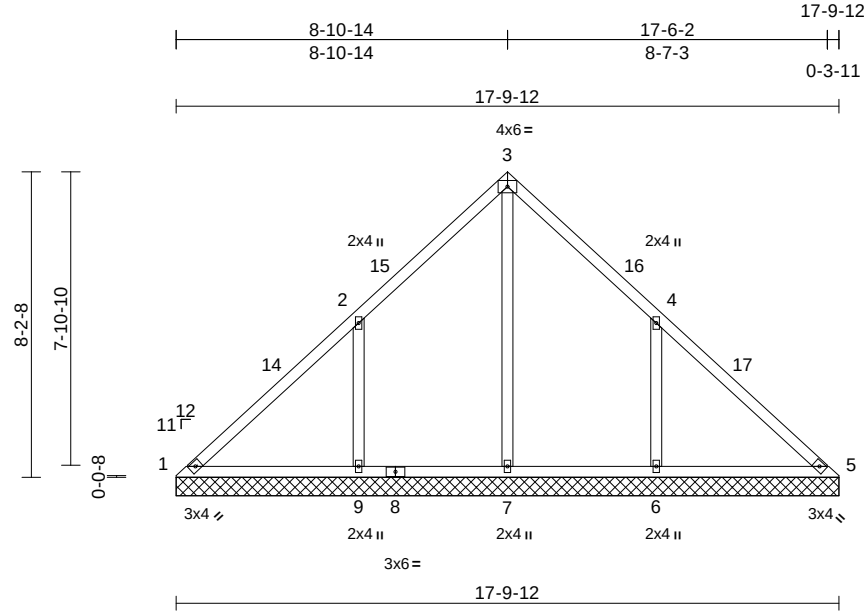
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4493324	V03	Valley	1	1	Job Reference (optional)	I71630649

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:56

Page: 1

ID:yRXQnLZMA9RMmFWCXiGuFXzIYIn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 84 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 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size)	1=17-9-12, 5=17-9-12, 6=17-9-12, 7=17-9-12, 9=17-9-12
	Max Horiz	1=-267 (LC 8)
	Max Uplift	1=-53 (LC 8), 6=-370 (LC 13), 9=-375 (LC 12)
	Max Grav	1=149 (LC 20), 5=116 (LC 22), 6=564 (LC 20), 7=511 (LC 19), 9=570 (LC 19)

FORCES

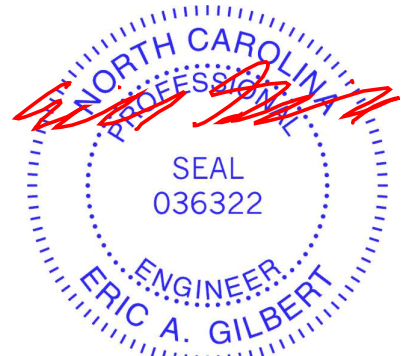
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-274/311, 2-3=-53/193, 3-4=-34/169, 4-5=-214/274
BOT CHORD	1-9=-263/262, 7-9=-263/262, 6-7=-263/262, 5-6=-263/262
WEBS	3-7=-335/11, 2-9=-457/394, 4-6=-457/391

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-9 to 3-0-9, Interior (1) 3-0-9 to 8-11-7, Exterior (2) 8-11-7 to 11-11-7, Interior (1) 11-11-7 to 17-10-5 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.

- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 375 lb uplift at joint 9 and 370 lb uplift at joint 6.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

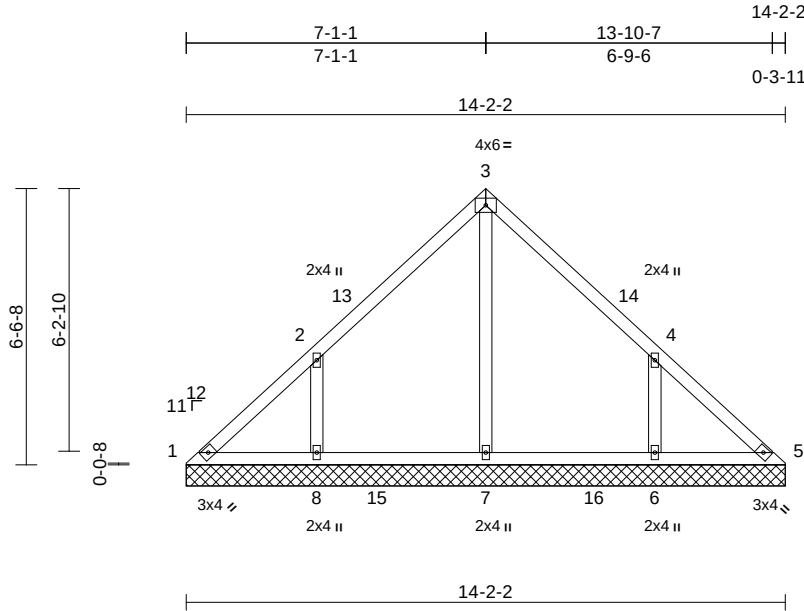
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630650
4493324	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:56
ID:JOKJq3dU?h3et0PAJFs3yazlYli-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:54.5

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 64 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 6-0-0 oc bracing.

REACTIONS (size)	1=14-2-2, 5=14-2-2, 6=14-2-2, 7=14-2-2, 8=14-2-2
Max Horiz	1=-212 (LC 8)
Max Uplift	1=-58 (LC 8), 5=-7 (LC 9), 6=-286 (LC 13), 8=-292 (LC 12)
Max Grav	1=149 (LC 20), 5=111 (LC 19), 6=417 (LC 20), 7=389 (LC 19), 8=423 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-189/186, 2-3=-144/171, 3-4=-143/148, 4-5=-144/118
BOT CHORD	1-8=-108/162, 7-8=-108/162, 6-7=-108/162, 5-6=-108/162
WEBS	3-7=-197/0, 2-8=-377/328, 4-6=-377/325

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-9 to 3-1-10, Interior (1) 3-1-10 to 7-1-10, Exterior (2) 7-1-10 to 10-1-10, Interior (1) 10-1-10 to 14-2-11 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.

- 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.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 7 lb uplift at joint 5, 292 lb uplift at joint 8 and 286 lb uplift at joint 6.
- LOAD CASE(S)** Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

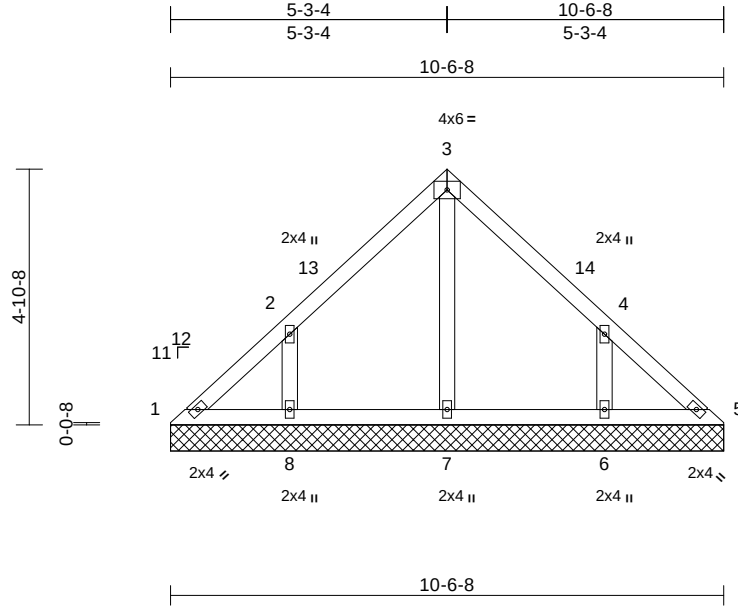
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630651
4493324	V05	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:56
ID:CAaqqQg?3wZ4LdxY5x?7QzYIe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 47 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 6-0-0 oc bracing.

REACTIONS

(size) 1=10-6-8, 5=10-6-8, 6=10-6-8, 7=10-6-8, 8=10-6-8
Max Horiz 1=-156 (LC 8)
Max Uplift 1=-43 (LC 8), 5=-4 (LC 9), 6=-207 (LC 13), 8=-212 (LC 12)
Max Grav 1=114 (LC 20), 5=85 (LC 19), 6=293 (LC 20), 7=196 (LC 19), 8=299 (LC 19)

FORCES

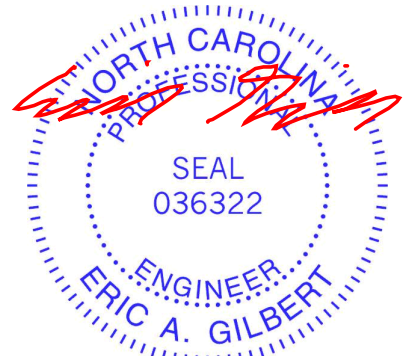
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-136/133, 2-3=-117/128, 3-4=-117/120, 4-5=-103/84
BOT CHORD 1-8=-74/117, 7-8=-74/117, 6-7=-74/117, 5-6=-74/117
WEBS 3-7=-138/2, 2-8=-284/241, 4-6=-284/238

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-9 to 3-0-9, Interior (1) 3-0-9 to 5-3-13, Exterior (2) 5-3-13 to 8-3-13, Interior (1) 8-3-13 to 10-7-1 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.

- Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 3-0-0 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.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 4 lb uplift at joint 5, 212 lb uplift at joint 8 and 207 lb uplift at joint 6.
- LOAD CASE(S)** Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

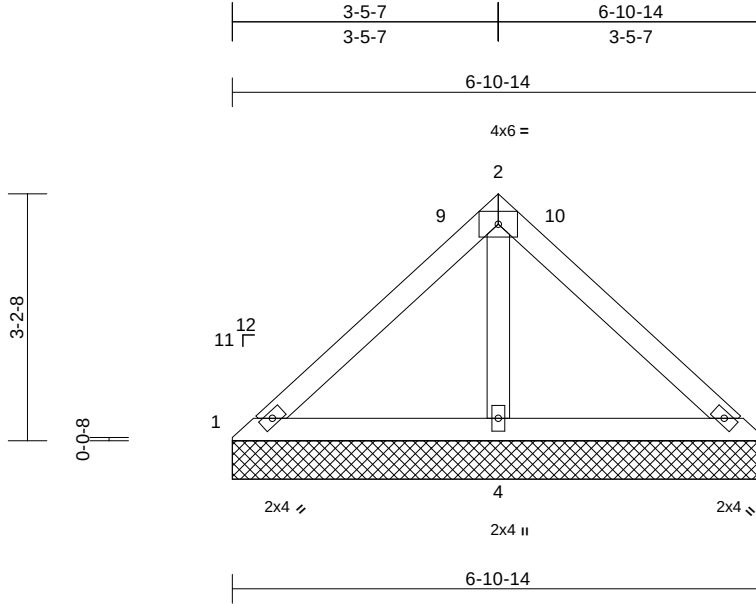
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630652
4493324	V06	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:56
ID:NHk_BpVTlyWAK22ivda3lzlYIT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.9

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 27 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 6-10-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=6-10-14, 3=6-10-14, 4=6-10-14
Max Horiz 1=-100 (LC 8)
Max Uplift 3=-6 (LC 8), 4=-168 (LC 12)
Max Grav 1=69 (LC 23), 3=69 (LC 24), 4=458 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-91/176, 2-3=-91/164
BOT CHORD 1-4=-194/161, 3-4=-194/161
WEBS 2-4=-363/205

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-9 to 3-0-9, Interior (1) 3-0-9 to 3-6-0, Exterior (2) 3-6-0 to 6-2-15, Interior (1) 6-2-15 to 6-11-7 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 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.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3 and 168 lb uplift at joint 4.

LOAD CASE(S) Standard



February 26, 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

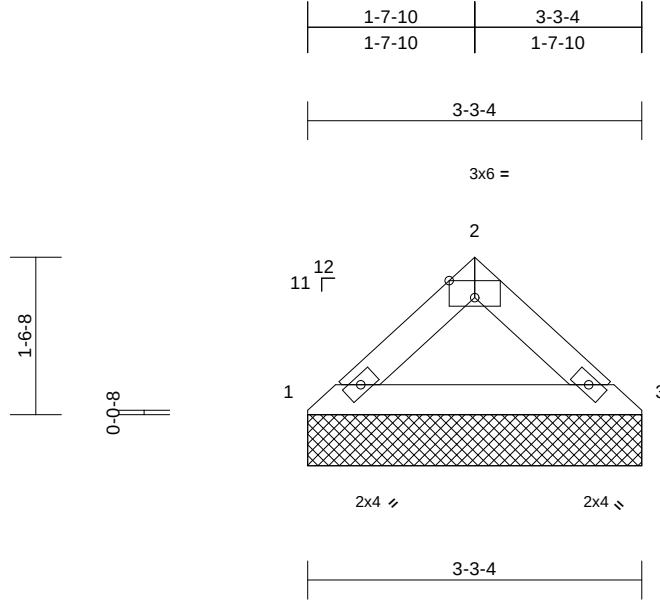
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630653
4493324	V07	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:57
ID:F2_VqZsPXXSyexMpxliWEbzIYIP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCrCDoi7J4zJC?f

Page: 1



Scale = 1:22.5

Plate Offsets (X, Y): [2:0-3-0,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-3-4, 3=3-3-4
Max Horiz 1=-45 (LC 8)
Max Uplift 1=-31 (LC 12), 3=-31 (LC 13)
Max Grav 1=131 (LC 1), 3=131 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

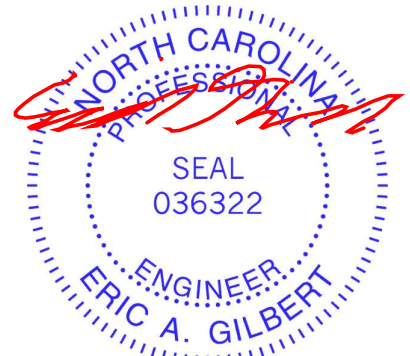
TOP CHORD 1-2=-163/63, 2-3=-163/63
BOT CHORD 1-3=-41/130

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- 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.

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 31 lb uplift at joint 3.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

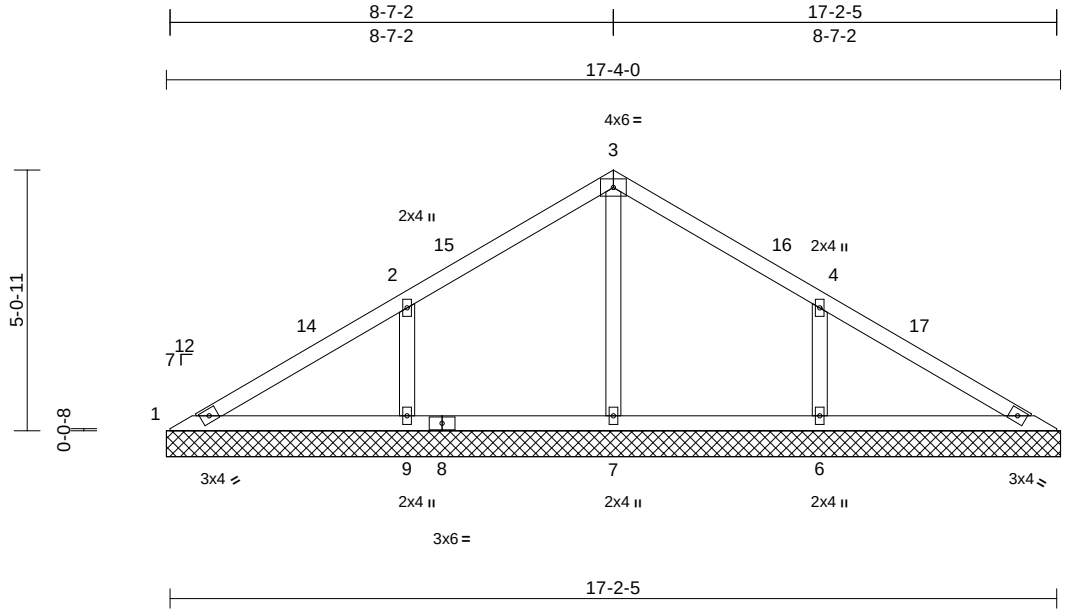
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630654
4493324	V08	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:57
ID:zzaHwz_hAbjXrT6kWrUSDizYIF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:44.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	6	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 67 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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=17-4-0, 5=17-4-0, 6=17-4-0, 7=17-4-0, 9=17-4-0
Max Horiz 1=163 (LC 11)
Max Uplift 1=-17 (LC 13), 5=-11 (LC 13), 6=-231 (LC 13), 7=-5 (LC 12), 9=-233 (LC 12)
Max Grav 1=103 (LC 23), 5=103 (LC 24), 6=451 (LC 20), 7=397 (LC 1), 9=453 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-136/266, 2-3=-15/201, 3-4=0/188, 4-5=-131/214
BOT CHORD 1-9=-204/154, 7-9=-204/137, 6-7=-204/137, 5-6=-204/137
WEBS 3-7=-340/61, 2-9=-347/259, 4-6=-347/258

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-0, Exterior (2) 8-8-0 to 11-8-0, Interior (1) 11-8-0 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber 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.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 11 lb uplift at joint 5, 5 lb uplift at joint 7, 233 lb uplift at joint 9 and 231 lb uplift at joint 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



February 26, 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

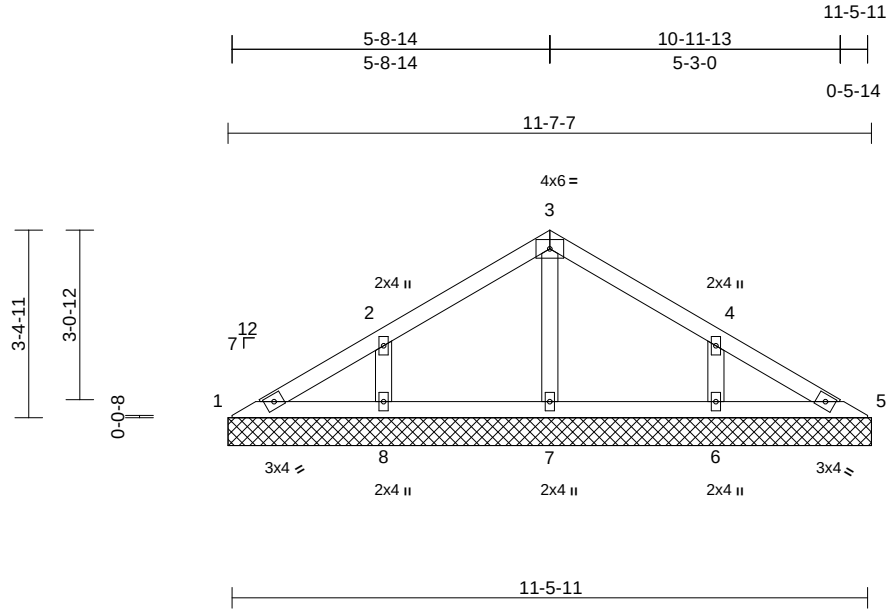
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630655
4493324	V09	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:57
ID:JxOAZh2p?8LpyE?JOT1KizlYIA-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:41.6

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=11-7-7, 5=11-7-7, 6=11-7-7, 7=11-7-7, 8=11-7-7
Max Horiz 1=-107 (LC 8)
Max Uplift 1=-20 (LC 13), 5=-12 (LC 13), 6=-150 (LC 13), 8=-151 (LC 12)
Max Grav 1=81 (LC 20), 5=78 (LC 24), 6=297 (LC 20), 7=240 (LC 1), 8=298 (LC 19)

FORCES

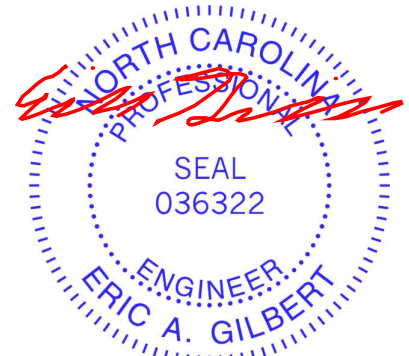
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-114/117, 2-3=-52/98, 3-4=-52/84, 4-5=-92/83
BOT CHORD 1-8=-71/110, 7-8=-71/70, 6-7=-71/70, 5-6=-71/75
WEBS 3-7=-187/37, 2-8=-238/174, 4-6=-238/173

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 2-9-11, Interior (1) 2-9-11 to 5-9-11, Exterior (2) 5-9-11 to 8-9-11, Interior (1) 8-9-11 to 11-7-7 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 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.

- Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 3-0-0 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.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1, 12 lb uplift at joint 5, 151 lb uplift at joint 8 and 150 lb uplift at joint 6.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- LOAD CASE(S)** Standard



February 26, 2025

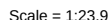
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:57 Page: 1
ID:V2YKHA|PWkGmxLpSCAcH3zYI?-RfC?PsB70Hg3NSqPqnL8w3ulTXbGKWkCDOI7J4zJC?2f

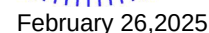


LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-9-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS	
(size)	1=5-9-2, 3=5-9-2, 4=5-9-2
Max Horiz	1=-52 (LC 8)
Max Uplift	1=-17 (LC 12), 3=-26 (LC 13), 4=-86 (LC 12)
Max Grav	1=70 (LC 23), 3=70 (LC 24), 4=351 (LC 1)
FORCES	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-71/133, 2-3=-71/131
BOT CHORD	1-4=-139/91, 3-4=-139/91
WEBS	2-4=-231/115

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 26 lb uplift at joint 3 and 86 lb uplift at joint 4.

LOAD CASE(S) Standard

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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-1473 (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 Components Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliat

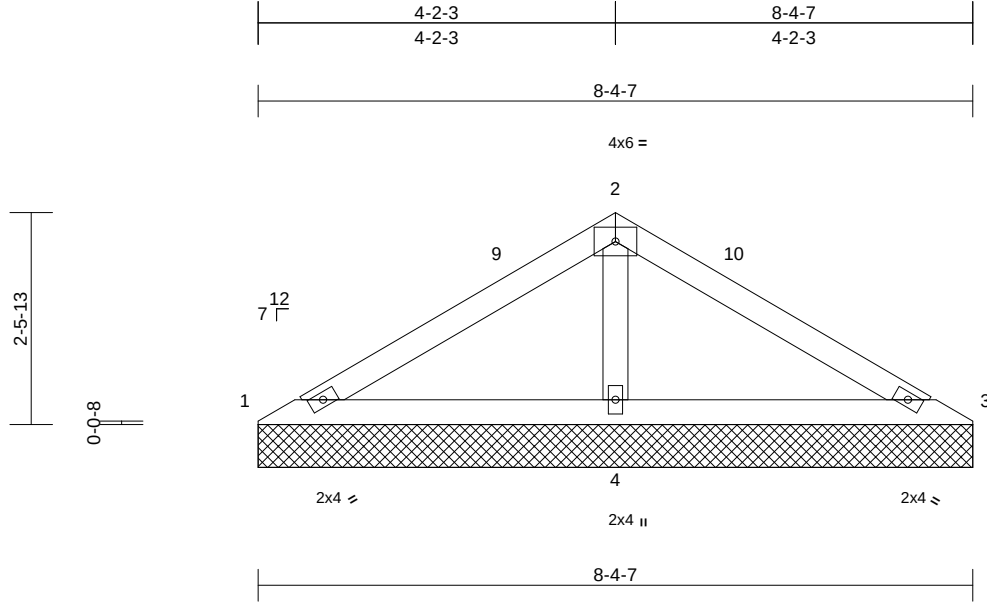
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630657
4493324	V11	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 10:08:57
ID:M7YbieJZ6Ba1wmQ2un3Ri0zSSNQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:27

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
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 28 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 8-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=8-4-7, 3=8-4-7, 4=8-4-7
Max Horiz 1=-77 (LC 8)
Max Uplift 1=-15 (LC 12), 3=-27 (LC 13), 4=-144 (LC 12)
Max Grav 1=82 (LC 23), 3=82 (LC 24), 4=562 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-86/245, 2-3=-85/245
BOT CHORD 1-4=-232/135, 3-4=-232/135
WEBS 2-4=-435/208

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-14 to 3-0-14, Interior (1) 3-0-14 to 4-3-1, Exterior (2) 4-3-1 to 7-5-3, Interior (1) 7-5-3 to 8-5-5 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.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 27 lb uplift at joint 3 and 144 lb uplift at joint 4.

LOAD CASE(S) Standard



February 26, 2025

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

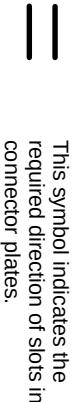
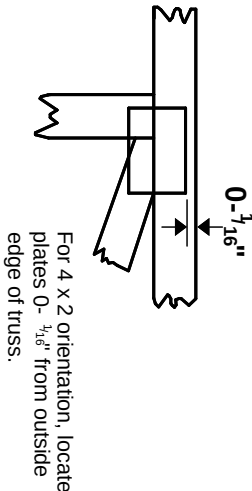
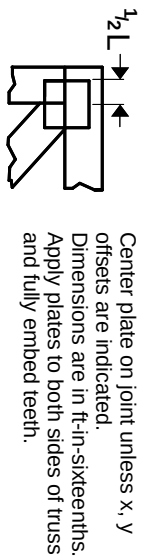
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

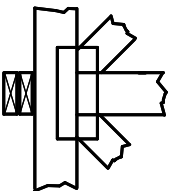
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

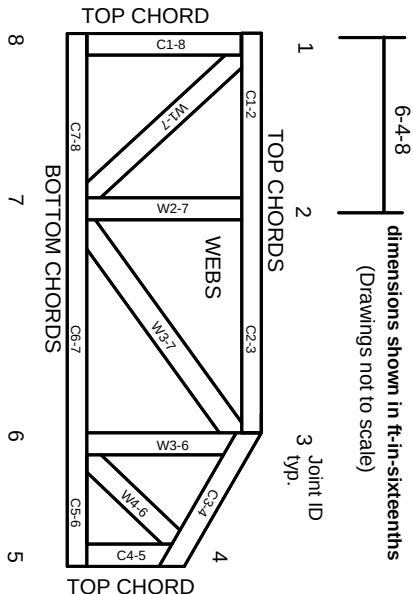
BEARING



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

Industry Standards:
ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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.

© 2023 MITek® All Rights Reserved

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MITek®

ENGINEERING BY
TRENCO
A MITek Affiliate

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