

RE: 4513022 - Bridgeport, Palmetto, 2 Cameron Hill

Trenco

818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: Bridgeport Development Project Name:
Lot/Block: 2 Subdivision: CAMERON HILL RD
Address: 3222 CAMERON HILL RD
City: CAMERON State: NC

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

Name: License #:
Address:
City, County: State:

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 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10
Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 22 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Name	Date
1	I72040080	4513022	A01	3/14/25
2	I72040081	4513022	A02	3/14/25
3	I72040082	4513022	A03	3/14/25
4	I72040083	4513022	A04	3/14/25
5	I72040084	4513022		3/14/25
6	I72040085	4513022	A06	3/14/25
7	I72040086	4513022	B01	3/14/25
8	I72040087	4513022	B02	3/14/25
9		4513022	B03	3/14/25
10	I72040089	4513022		3/14/25
11	I72040090	4513022	C01	3/14/25
12	I72040091	4513022	C02	3/14/25
13	I72040092	4513022	D01	3/14/25
14	I72040093	4513022		3/14/25
	I72040094	4513022	D03	3/14/25
16	I72040095	4513022		3/14/25
17	I72040096	4513022	E02	3/14/25
18		4513022	G01	3/14/25
19	I72040098	4513022	G02	3/14/25
20	I72040099	4513022	G03	3/14/25
21	I72040100	4513022	G04	3/14/25
22	I72040101	4513022	PB01	3/14/25

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: Galinski, John

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

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



March 14, 2025

Galinski, John

RE: \$JOBNAME - \$JOBDESC

Trenco

818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR
City, County: \$SI_SITECITY State: \$SI_SITESTATE

RE: \$JOBNAME - \$JOBDESC

Trenco

818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR
City, County: \$SI_SITECITY State: \$SI_SITESTATE

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	A01	Common Supported Gable	1	1	Job Reference (optional)

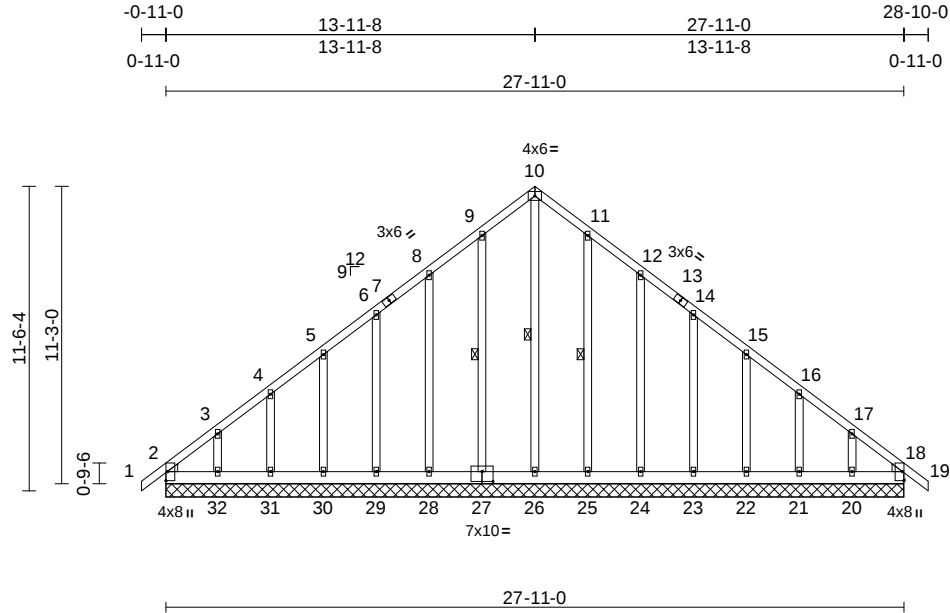
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:29

Page: 1

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Scale = 1:87.2

Plate Offsets (X, Y): [2:Edge,0-0-11], [18:Edge,0-0-11], [27:0-5-0,0-4-8]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	18	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
Weight: 232 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING

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

WEBS 1 Row at midpt 10-26, 9-27, 11-25

REACTIONS (size) 2=27-11-0, 18=27-11-0, 20=27-11-0, 21=27-11-0, 22=27-11-0, 23=27-11-0, 24=27-11-0, 25=27-11-0, 26=27-11-0, 27=27-11-0, 28=27-11-0, 29=27-11-0, 30=27-11-0, 31=27-11-0, 32=27-11-0

Max Horiz 2=-372 (LC 10)

Max Uplift 2=-117 (LC 10), 18=-55 (LC 9), 20=-204 (LC 13), 21=-93 (LC 13), 22=-121 (LC 13), 23=-112 (LC 13), 24=-122 (LC 13), 25=-104 (LC 13), 27=-108 (LC 12), 28=-121 (LC 12), 29=-112 (LC 12), 30=-122 (LC 12), 31=-90 (LC 12), 32=-217 (LC 12)

Max Grav 2=254 (LC 12), 18=219 (LC 22), 20=215 (LC 20), 21=176 (LC 20), 22=186 (LC 20), 23=183 (LC 20), 24=185 (LC 20), 25=189 (LC 20), 26=276 (LC 13), 27=193 (LC 19), 28=183 (LC 19), 29=183 (LC 19), 30=187 (LC 19), 31=173 (LC 19), 32=229 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/33, 2-3=-387/262, 3-4=-289/223, 4-5=-210/189, 5-6=-171/157, 6-8=-144/178, 8-9=-198/236, 9-10=-269/302, 10-11=-269/302, 11-12=-198/218, 12-14=-118/123, 14-15=-102/79, 15-16=-137/107, 16-17=-234/145, 17-18=-331/224, 18-19=0/33

BOT CHORD 2-32=-257/328, 31-32=-212/328, 30-31=-212/328, 29-30=-212/328, 28-29=-212/328, 26-28=-212/328, 25-26=-212/328, 24-25=-212/328, 23-24=-212/328, 22-23=-212/328, 21-22=-212/328, 20-21=-212/328, 18-20=-212/328

WEBS 10-26=-268/181, 9-27=-158/132, 8-28=-174/144, 6-29=-167/138, 5-30=-168/140, 4-31=-168/137, 3-32=-171/147, 11-25=-158/128, 12-24=-174/146, 14-23=-167/138, 15-22=-168/139, 16-21=-168/138, 17-20=-171/144

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 1-11-8, Exterior (2) 1-11-8 to 13-11-8, Corner (3) 13-11-8 to 16-11-8, Exterior (2) 16-11-8 to 28-10-0 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
- 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 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 117 lb uplift at joint 2, 55 lb uplift at joint 18, 108 lb uplift at joint 27, 121 lb uplift at joint 28, 112 lb uplift at joint 29, 122 lb uplift at joint 30, 90 lb uplift at joint 31, 217 lb uplift at joint 32, 104 lb uplift at joint 25, 122 lb uplift at joint 24, 112 lb uplift at joint 23, 121 lb uplift at joint 22, 93 lb uplift at joint 21, 204 lb uplift at joint 20, 117 lb uplift at joint 2 and 55 lb uplift at joint 18.

LOAD CASE(S) Standard

March 14, 2025

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

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

ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	A02	Common	5	1	Job Reference (optional)

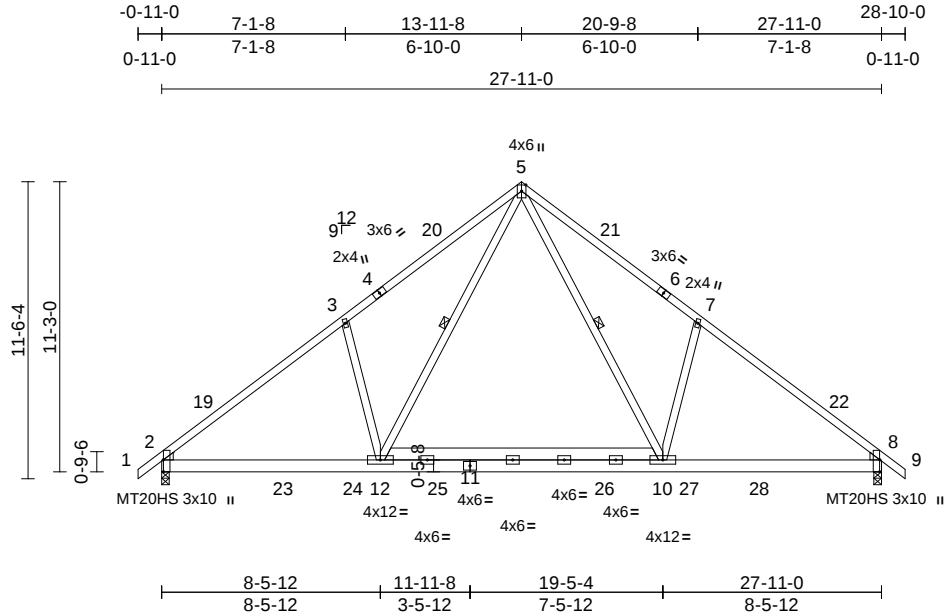
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Scale = 1:89.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.17	10-12	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	12-15	>999	240	Weight: 199 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-4-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 5-10, 5-12

REACTIONS

(size)	2=0-3-8, 8=0-3-8
Max Horiz	2=-372 (LC 10)
Max Uplift	2=-297 (LC 12), 8=-297 (LC 13)
Max Grav	2=1266 (LC 19), 8=1266 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-3=-1584/381, 3-5=-1575/587, 5-7=-1574/586, 7-8=-1581/381, 8-9=0/33
BOT CHORD	2-12=-352/1427, 10-12=-72/904, 8-10=-159/1212
WEBS	5-10=-391/916, 7-10=-531/453, 5-12=-391/919, 3-12=-530/452

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 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 28-10-0 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
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 297 lb uplift at joint 2 and 297 lb uplift at joint 8.

LOAD CASE(S) Standard

March 14, 2025

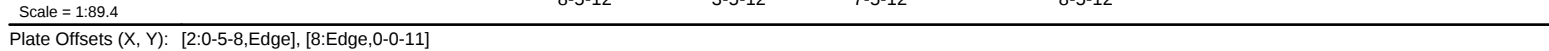
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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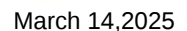
818 Soundside Road
 Edenton, NC 27932

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LUMBER			
TOP CHORD	2x4 SP No.2		4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	2x6 SP No.2		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.
WEBS	2x4 SP No.3		6) All bearings are assumed to be SP No.2 .
WEDGE	Left: 2x4 SP No.3		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 2, 287 lb uplift at joint 12 and 245 lb uplift at joint 8.
	Right: 2x4 SP No.3		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 4-8-14 oc purlins.		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
WEBS	1 Row at midpt	5-12, 5-10	
REACTIONS	(size)	2=0-3-8, 8=0-3-8, 12=0-3-8	
	Max Horiz	2=-372 (LC 10)	
	Max Uplift	2=-97 (LC 12), 8=-245 (LC 13), 12=-287 (LC 12)	
	Max Grav	2=446 (LC 1), 8=921 (LC 20), 12=1265 (LC 19)	
FORCES		(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-3=-354/188, 3-5=-437/301, 5-7=-1066/506, 7-8=-1043/278, 8-9=0/33		
BOT CHORD	2-12=-287/362, 10-12=-39/418, 8-10=-55/736		
WEBS	3-12=-547/457, 5-12=-593/85, 5-10=-393/931, 7-10=-539/454		

- 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) -10-11-0 to 2-1-0, Interior (1) 2-1-0 to 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 28-10-0 zone; cantilever left and right exposed ; and 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) All plates are MT20 plates unless otherwise indicated.



Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	A04	Common	2	1	Job Reference (optional)

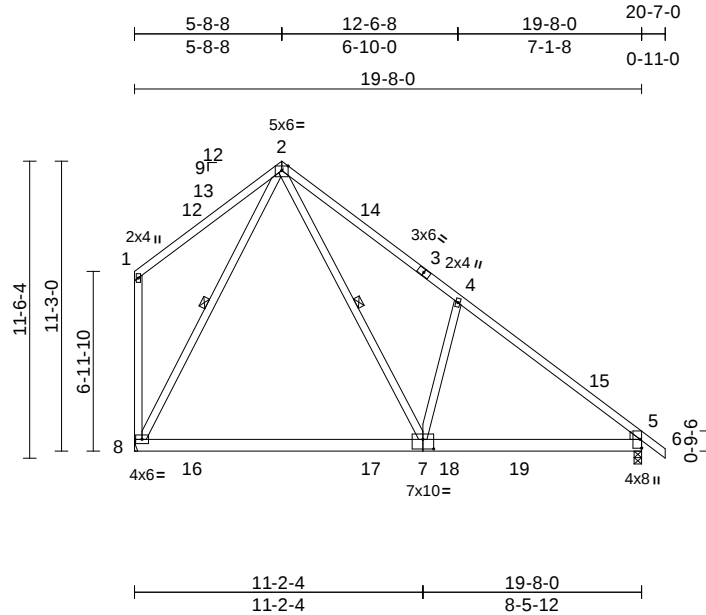
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:31

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Scale = 1:89.4

Plate Offsets (X, Y): [5:Edge,0-0-11], [7:0-5-0,0-4-8]

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	0.61	Vert(LL)	-0.23	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.35	7-8	>665	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	7-11	>999	240	Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 8-1:2x4 SP No.2
WEDGE	Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 2-7, 2-8

REACTIONS

(size)	5=0-3-8, 8= Mechanical
Max Horiz	8=-453 (LC 13)
Max Uplift	5=-186 (LC 13), 8=-268 (LC 13)
Max Grav	5=908 (LC 20), 8=937 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-154/162, 2-4=-1038/404, 4-5=-1055/184, 5-6=0/33, 1-8=-231/192
BOT CHORD	5-8=-45/779
WEBS	2-7=-380/1009, 4-7=-540/457, 2-8=-748/278

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) 8-4-12 to 11-4-12, Interior (1) 11-4-12 to 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 28-10-0 zone; cantilever left and right exposed; end vertical 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 8 and 186 lb uplift at joint 5.

LOAD CASE(S) Standard

March 14, 2025

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

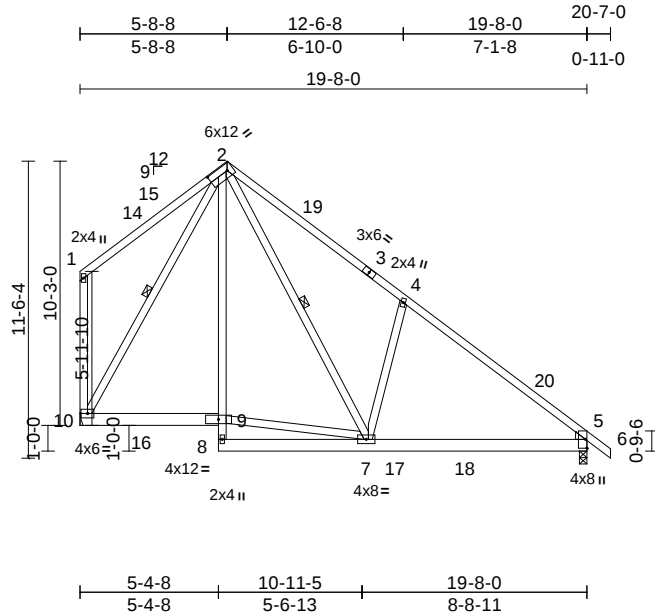
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	A05	Roof Special	6	1	Job Reference (optional)

I72040084

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

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Page: 1



Scale = 1:89.4

Plate Offsets (X, Y): [2:0-9-4,0-3-0], [5:Edge,0-0-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.04	7-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.09	7-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	7-13	>999	240	Weight: 158 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* 2-8:2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 10-1:2x4 SP No.2
 WEDGE Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or
 5-1-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
 bracing.

WEBS 1 Row at midpt 2-7, 2-10

REACTIONS (size) 5=0-3-8, 10= Mechanical
 Max Horiz 10=-450 (LC 13)
 Max Uplift 5=-212 (LC 13), 10=-246 (LC 13)
 Max Grav 5=880 (LC 20), 10=855 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum
 Tension
 TOP CHORD 1-2=-149/162, 1-10=-224/188, 2-4=-969/440,
 4-5=-957/230, 5-6=0/33
 BOT CHORD 9-10=-21/481, 8-9=0/75, 2-9=0/240,
 7-8=-47/43, 5-7=-43/672
 WEBS 4-7=-513/436, 2-7=-474/769, 2-10=-792/222,
 7-9=0/480

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) 8-1-4 to 11-1-4, Interior (1) 11-1-4 to 13-5-12, Exterior (2) 13-5-12 to 16-5-12, Interior (1) 16-5-12 to 28-6-8 zone; cantilever left and right exposed; end vertical 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 5 and 246 lb uplift at joint 10.

LOAD CASE(S) Standard

March 14, 2025

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

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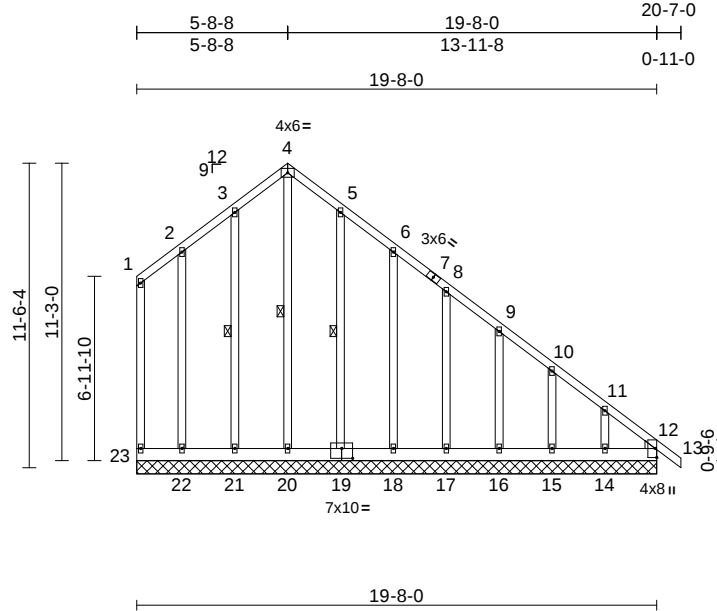
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	A06	Common Supported Gable	1	1	Job Reference (optional)
					I72040085

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:32

Page: 1

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Scale = 1:87.2

Plate Offsets (X, Y): [12:Edge,0-0-11], [19:0-5-0,0-4-8]

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	0.09	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	12	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
										Weight: 182 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Right: 2x4 SP No.2

BRACING

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

WEBS	1 Row at midpt	4-20, 3-21, 5-19
------	----------------	------------------

REACTIONS	(size)	12=19-8-0, 14=19-8-0, 15=19-8-0, 16=19-8-0, 17=19-8-0, 18=19-8-0, 19=19-8-0, 20=19-8-0, 21=19-8-0, 22=19-8-0, 23=19-8-0
	Max Horiz	23=453 (LC 13)
	Max Uplift	12=162 (LC 11), 14=240 (LC 13), 15=85 (LC 13), 16=123 (LC 13), 17=112 (LC 13), 18=119 (LC 13), 19=114 (LC 13), 20=26 (LC 10), 21=109 (LC 12), 22=118 (LC 12), 23=33 (LC 12)
	Max Grav	12=332 (LC 13), 14=242 (LC 20), 15=170 (LC 20), 16=188 (LC 20), 17=184 (LC 20), 18=181 (LC 20), 19=197 (LC 20), 20=238 (LC 21), 21=191 (LC 19), 22=180 (LC 19), 23=54 (LC 19)

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=30/43, 2-3=112/134, 3-4=187/228, 4-5=187/246, 5-6=152/197, 6-8=178/178, 8-9=220/211, 9-10=293/246, 10-11=389/280, 11-12=489/320, 12-13=0/33, 1-23=52/41
-----------	---

BOT CHORD	22-23=280/452, 21-22=280/452, 20-21=280/452, 18-20=280/453, 17-18=280/453, 16-17=280/453, 15-16=280/453, 14-15=280/453, 12-14=280/453
WEBS	4-20=210/87, 3-21=166/133, 2-22=164/140, 5-19=164/138, 6-18=172/142, 8-17=167/138, 9-16=168/140, 10-15=167/136, 11-14=174/151

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) 8-4-12 to 11-4-12, Exterior (2) 11-4-12 to 13-11-8, Corner (3) 13-11-8 to 16-11-8, Exterior (2) 16-11-8 to 28-10-0 zone; cantilever left and right exposed; end vertical 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 .

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 23, 26 lb uplift at joint 20, 109 lb uplift at joint 21, 118 lb uplift at joint 22, 114 lb uplift at joint 19, 119 lb uplift at joint 18, 112 lb uplift at joint 17, 123 lb uplift at joint 16, 85 lb uplift at joint 15, 240 lb uplift at joint 14, 162 lb uplift at joint 12 and 162 lb uplift at joint 12.

LOAD CASE(S) Standard



March 14,2025

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

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

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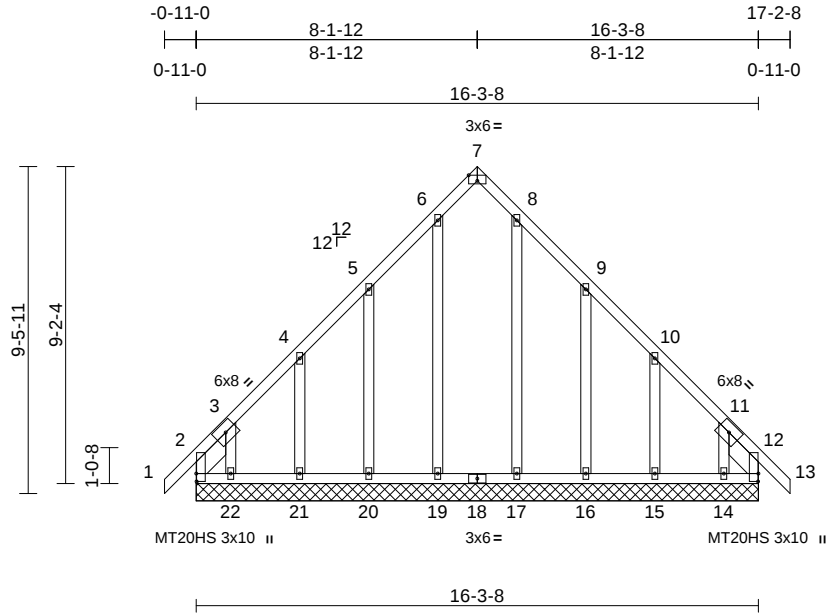
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	B01	Common Supported Gable	1	1	Job Reference (optional)

172040086

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:32
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Page: 1



Scale = 1:66.8

Plate Offsets (X, Y): [2:0-2-12,0-0-2], [7:0-3-0,Edge], [12:0-2-12,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	999	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	12	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
										Weight: 123 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-5-6, Right 2x6 SP No.2 -- 1-5-6

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=16-3-8, 12=16-3-8, 14=16-3-8, 15=16-3-8, 16=16-3-8, 17=16-3-8, 19=16-3-8, 20=16-3-8, 21=16-3-8, 22=16-3-8
Max Horiz 2=-302 (LC 10)
Max Uplift 2=-199 (LC 10), 12=-166 (LC 11), 14=-374 (LC 13), 15=-154 (LC 13), 16=-190 (LC 13), 17=-44 (LC 13), 19=-61 (LC 12), 20=-186 (LC 12), 21=-155 (LC 12), 22=-383 (LC 12)
Max Grav 2=535 (LC 12), 12=512 (LC 13), 14=217 (LC 11), 15=200 (LC 20), 16=203 (LC 20), 17=165 (LC 20), 19=184 (LC 19), 20=198 (LC 19), 21=200 (LC 19), 22=231 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-165/142, 3-4=-349/238, 4-5=-201/121, 5-6=-113/72, 6-7=-86/78, 7-8=-86/78, 8-9=-89/43, 9-10=-183/121, 10-11=-330/238, 11-12=-159/141, 12-13=0/39
BOT CHORD 2-22=-265/371, 21-22=-265/371, 20-21=-265/371, 19-20=-265/371, 17-19=-265/371, 16-17=-265/371, 15-16=-265/371, 14-15=-265/371, 12-14=-265/371

WEBS
6-19=-140/88, 8-17=-121/71, 5-20=-229/207, 4-21=-206/185, 3-22=-306/349, 9-16=-229/212, 10-15=-206/184, 11-14=-308/341

- 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 8-1-12, Corner (3) 8-1-12 to 11-3-8, Exterior (2) 11-3-8 to 17-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 (II) 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2, 166 lb uplift at joint 12, 61 lb uplift at joint 19, 44 lb uplift at joint 17, 186 lb uplift at joint 20, 155 lb uplift at joint 21, 383 lb uplift at joint 22, 190 lb uplift at joint 16, 154 lb uplift at joint 15, 374 lb uplift at joint 14, 199 lb uplift at joint 2 and 166 lb uplift at joint 12.

LOAD CASE(S) Standard



March 14, 2025

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Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	B02	Common	1	1	Job Reference (optional)

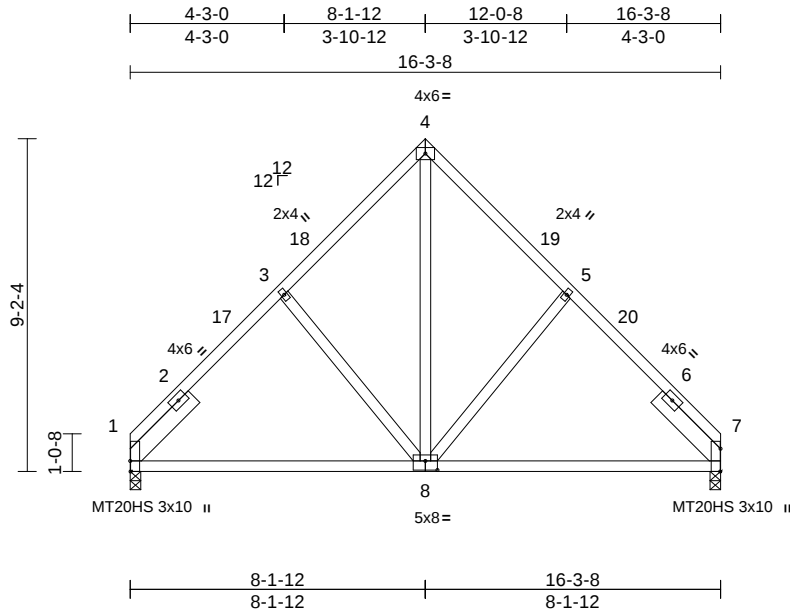
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:32

Page: 1

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Scale = 1:63.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.06	8-11	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.12	8-15	>999	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	8-11	>999	240	Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horiz	1=-272 (LC 8)
Max Uplift	1=-145 (LC 13), 7=-145 (LC 12)
Max Grav	1=652 (LC 1), 7=652 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-642/239, 3-4=-643/295, 4-5=-643/295, 5-7=-642/239
-----------	--

BOT CHORD	1-7=-254/533
-----------	--------------

WEBS	4-8=-259/644, 3-8=-306/292, 5-8=-306/293
------	--

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 8-1-12, Exterior (2) 8-1-12 to 11-1-12, Interior (1) 11-1-12 to 16-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 1 and 145 lb uplift at joint 7.

LOAD CASE(S) Standard

March 14, 2025

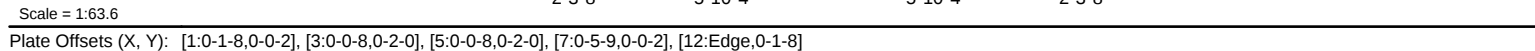
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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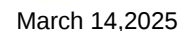
818 Soundside Road
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:33 Page: 1
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LUMBER		3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
WEBS	2x4 SP No.3	
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0	5) All bearings are assumed to be SP No.2 .
BRACING		6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 1 and 145 lb uplift at joint 7.
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, Except: 8-6-11 oc bracing: 10-11.	
REACTIONS		LOAD CASE(S) Standard
	(size) 1=0-3-8, 7=0-3-8	
	Max Horiz 1=-272 (LC 8)	
	Max Uplift 1=-145 (LC 13), 7=-145 (LC 12)	
	Max Grav 1=652 (LC 1), 7=652 (LC 1)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-779/240, 3-4=-650/243, 4-5=-650/259, 5-7=-779/240	
BOT CHORD	1-12=-279/606, 11-12=-23/101, 3-11=0/178, 10-11=-474/971, 9-10=-223/769, 8-9=0/84, 5-9=0/178, 7-8=-120/455	
WEBS	4-10=-120/505, 5-10=-590/420, 3-10=-590/482	

- 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 3-0-0, Interior (1) 3-0-0 to 8-1-12, Exterior (2) 8-1-12 to 11-1-12, Interior (1) 11-1-12 to 16-3-8 zone; cantilever left and right exposed ; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60



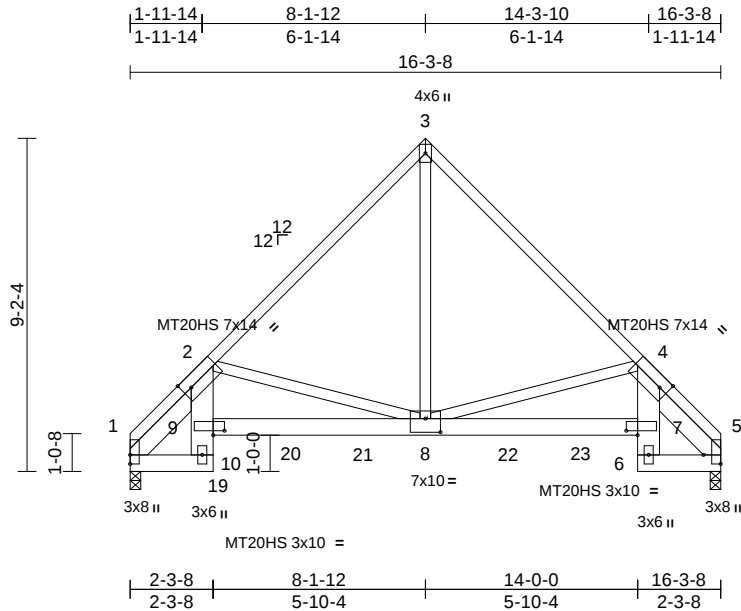
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	B04	Roof Special Girder	1	2	Job Reference (optional)

I72040089

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:33
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Page: 1



Scale = 1:63.6

Plate Offsets (X, Y): [2:0-2-14,Edge], [4:0-2-14,Edge], [5:Edge,0-5-12], [7:0-3-12,0-1-8], [8:0-5-0,0-4-8], [9:0-3-12,0-1-8]

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	0.43	Vert(LL)	-0.08	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.15	8-9	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	8-9	>999	240	Weight: 257 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 10-2,4-6:2x8 SP 2400F 2.0E or 2x8 SP DSS, 9-7:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 2-6-1, Right 2x6 SP No.2 -- 2-6-1

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=0-3-8, 5=0-3-8
Max Horiz	1=-272 (LC 4)
Max Uplift	1=-1293 (LC 9), 5=-1101 (LC 8)
Max Grav	1=4339 (LC 16), 5=3698 (LC 15)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-2170/676, 2-3=-3466/1106, 3-4=-3505/1141, 4-5=-2039/635
BOT CHORD	1-10=-972/2947, 9-10=-64/184, 2-9=-412/1479, 8-9=-1746/4989, 7-8=-1461/4669, 6-7=-39/27, 4-7=-420/1550, 5-6=-818/2781
WEBS	3-8=-1369/4438, 4-8=-2525/1071, 2-8=-2616/1150

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 - 3 rows staggered at 0-5-0 oc, 2x8 - 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; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1293 lb uplift at joint 1 and 1101 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 923 lb down and 277 lb up at 0-5-4, 836 lb down and 258 lb up at 2-5-4, 836 lb down and 258 lb up at 4-5-4, 836 lb down and 258 lb up at 6-5-4, 836 lb down and 258 lb up at 8-5-4, 836 lb down and 258 lb up at 10-5-4, and 836 lb down and 258 lb up at 12-5-4, and 917 lb down and 280 lb up at 14-3-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 10-11=-20, 7-9=-20, 6-15=-20

Concentrated Loads (lb)

Vert: 7=-760 (B), 8=-760 (B), 13=-765 (B), 19=-760 (B), 20=-760 (B), 21=-760 (B), 22=-760 (B), 23=-760 (B)



March 14, 2025

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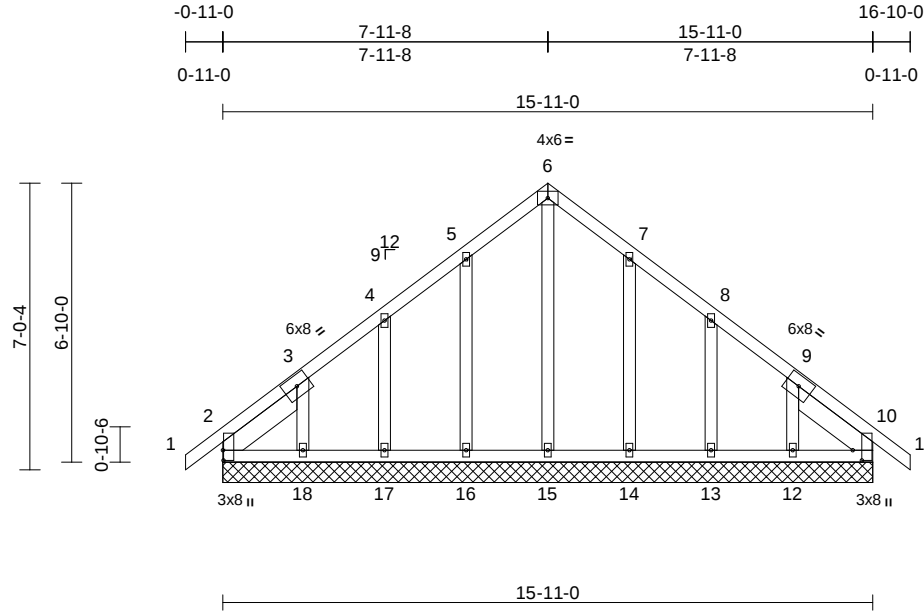
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	C01	Common Supported Gable	1	1	Job Reference (optional)
					I72040090

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:33

Page: 1

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Scale = 1:56.4

Plate Offsets (X, Y): [2:0-3-0,0-0-3], [10:0-3-0,0-2-11]

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	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	10	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 107 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-4-11, Right 2x6 SP No.2 -- 2-4-11

WEBS	6-15=-151/80, 5-16=-170/142, 4-17=-171/141, 3-18=-197/181, 7-14=-170/140, 8-13=-172/142, 9-12=-200/171
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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 1-11-8, Exterior (2) 1-11-8 to 7-11-8, Corner (3) 7-11-8 to 10-11-8, Exterior (2) 10-11-8 to 16-10-0 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
- 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 (I) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 75 lb uplift at joint 2, 19 lb uplift at joint 10, 119 lb uplift at joint 16, 112 lb uplift at joint 17, 174 lb uplift at joint 18, 117 lb uplift at joint 14, 114 lb uplift at joint 13, 162 lb uplift at joint 12, 75 lb uplift at joint 2 and 19 lb uplift at joint 10.

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=15-11-0, 10=15-11-0, 12=15-11-0, 13=15-11-0, 14=15-11-0, 15=15-11-0, 16=15-11-0, 17=15-11-0, 18=15-11-0
Max Horiz	2=-222 (LC 10)	
Max Uplift	2=-75 (LC 8), 10=-19 (LC 9), 12=-162 (LC 13), 13=-114 (LC 13), 14=-117 (LC 13), 16=-119 (LC 12), 17=-112 (LC 12), 18=-174 (LC 12)	
Max Grav	2=195 (LC 20), 10=154 (LC 1), 12=197 (LC 20), 13=183 (LC 20), 14=192 (LC 20), 15=179 (LC 22), 16=195 (LC 19), 17=181 (LC 19), 18=210 (LC 19)	

FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-3=-64/36, 3-4=-135/119, 4-5=-116/137, 5-6=-178/196, 6-7=-178/196, 7-8=-100/104, 8-9=-81/48, 9-10=-60/24, 10-11=0/33	
BOT CHORD	2-18=-106/173, 17-18=-106/173, 16-17=-106/173, 15-16=-106/173, 14-15=-106/173, 13-14=-106/173, 12-13=-106/173, 10-12=-106/173	



March 14, 2025

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Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	C02	Common	7	1	Job Reference (optional)

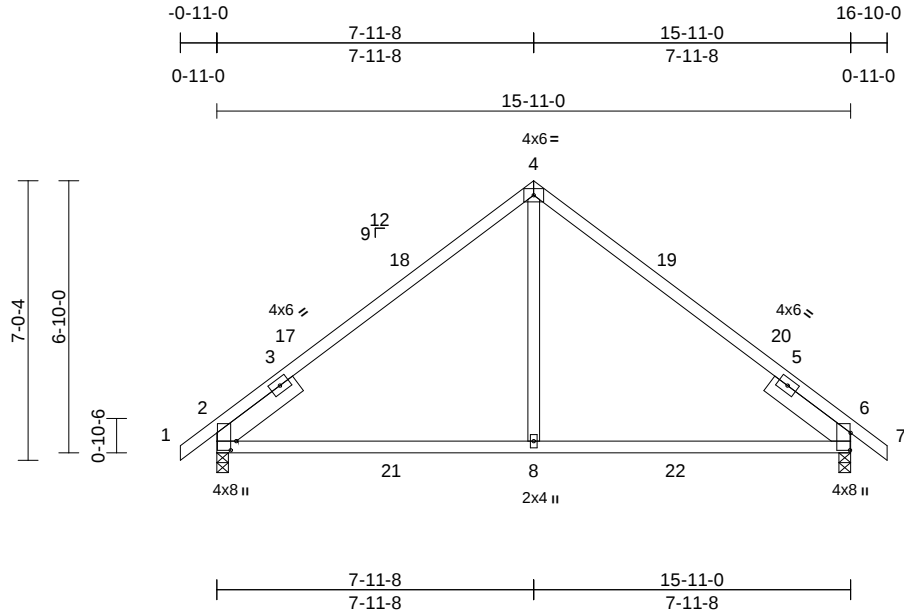
I72040091

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:33

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Scale = 1:57.9

Plate Offsets (X, Y): [2:0-2-12,0-1-11], [6:0-5-4,0-0-3]

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	0.79	Vert(LL)	0.22	8-11	>881	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.20	8-11	>946	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.08	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 78 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 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 3-10-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-222 (LC 10)
Max Uplift	2=-180 (LC 12), 6=-180 (LC 13)
Max Grav	2=747 (LC 19), 6=747 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-4=-767/245, 4-6=-767/245, 6-7=0/33
BOT CHORD	2-8=-453/607, 6-8=-322/598
WEBS	4-8=0/422

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 7-11-8, Exterior (2) 7-11-8 to 10-11-8, Interior (1) 10-11-8 to 16-10-0 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 180 lb uplift at joint 2 and 180 lb uplift at joint 6.

LOAD CASE(S) Standard

March 14, 2025

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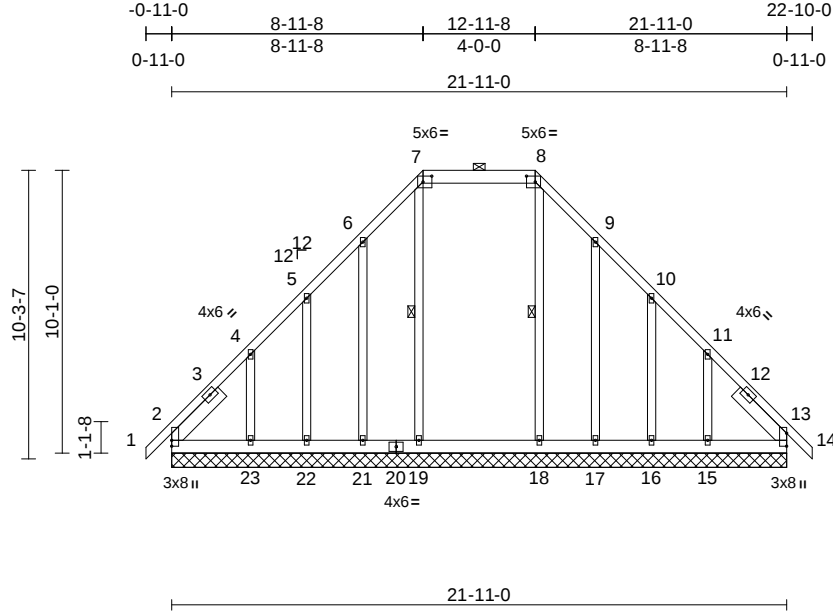
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	D01	Piggyback Base Supported Gable	1	1	Job Reference (optional)
I72040092					

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:34

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Scale = 1:82.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	13	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 188 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 7-8:2x6 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 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.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-19, 8-18

REACTIONS (size)
2=21-11-0, 13=21-11-0,
15=21-11-0, 16=21-11-0,
17=21-11-0, 18=21-11-0,
19=21-11-0, 21=21-11-0,
22=21-11-0, 23=21-11-0
Max Horiz 2=329 (LC 11)
Max Uplift 2=-151 (LC 8), 13=-95 (LC 9),
15=-321 (LC 13), 16=-104 (LC 13),
17=-191 (LC 13), 19=-22 (LC 9),
21=-193 (LC 12), 22=-99 (LC 12),
23=-334 (LC 12)
Max Grav 2=303 (LC 20), 13=258 (LC 19),
15=298 (LC 20), 16=170 (LC 20),
17=172 (LC 20), 18=332 (LC 21),
19=354 (LC 22), 21=175 (LC 19),
22=165 (LC 19), 23=312 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-4=-248/241, 4-5=-200/184,
5-6=-213/241, 6-7=-335/363, 7-8=-269/302,
8-9=-335/363, 9-10=-213/220,
10-11=-152/125, 11-13=-213/171, 13-14=0/39

BOT CHORD 2-23=-139/251, 22-23=-139/251,
21-22=-139/251, 19-21=-139/251,
18-19=-140/253, 17-18=-140/251,
16-17=-140/251, 15-16=-140/251,
13-15=-140/251
WEBS 7-19=-192/90, 8-18=-170/89, 6-21=-213/197,
5-22=-190/165, 4-23=-254/252,
9-17=-214/196, 10-16=-190/167,
11-15=-256/246

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 8-11-8, Corner (3) 8-11-8 to 11-11-8, Exterior (2) 11-11-8 to 12-11-8, Corner (3) 12-11-8 to 15-11-8, Exterior (2) 15-11-8 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 151 lb uplift at joint 2, 95 lb uplift at joint 13, 22 lb uplift at joint 19, 193 lb uplift at joint 21, 99 lb uplift at joint 22, 334 lb uplift at joint 23, 191 lb uplift at joint 17, 104 lb uplift at joint 16, 321 lb uplift at joint 15, 151 lb uplift at joint 2 and 95 lb uplift at joint 13.
- 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



March 14, 2025

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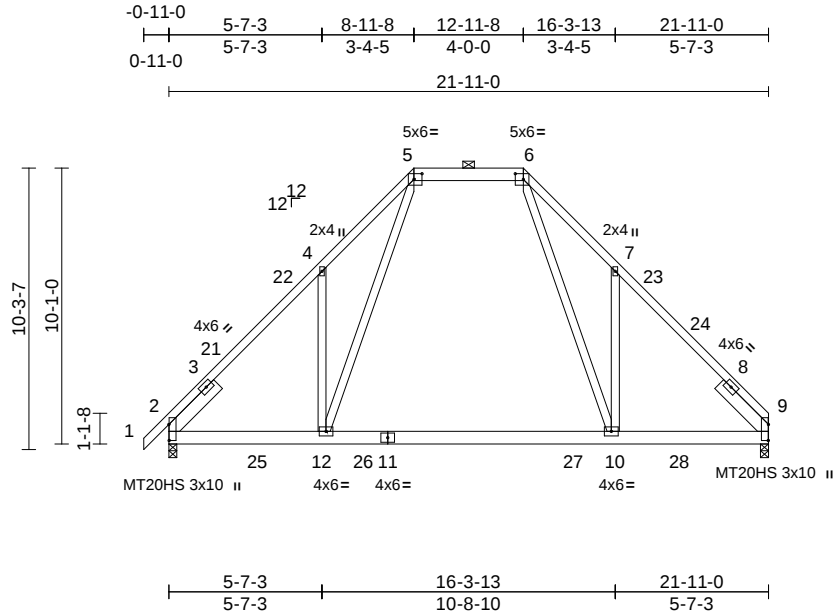
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	D02	Piggyback Base	4	1	Job Reference (optional)

I72040093

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:34
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Page: 1



Scale = 1:84.2

Plate Offsets (X, Y): [2:0-7-1,0-0-2], [5:0-3-9,0-2-8], [6:0-3-9,0-2-8], [9:0-7-1,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.29	10-12	>920	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.15	12-19	>999	240	Weight: 160 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 5-6:2x6 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 4-10-15 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)	2=0-3-8, 9=0-3-8
Max Horiz	2=319 (LC 11)
Max Uplift	2=-205 (LC 12), 9=-175 (LC 13)
Max Grav	2=1000 (LC 2), 9=952 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/39, 2-4=-1099/319, 4-5=-1160/577, 5-6=-632/364, 6-7=-1160/577, 7-9=-1101/326
BOT CHORD	2-12=-284/835, 10-12=-109/592, 9-10=-136/734
WEBS	5-12=-411/739, 6-10=-412/746, 4-12=-432/496, 7-10=-432/497

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 8-11-8, Exterior (2) 8-11-8 to 17-2-7, Interior (1) 17-2-7 to 21-11-0 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 175 lb uplift at joint 9 and 205 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



March 14, 2025

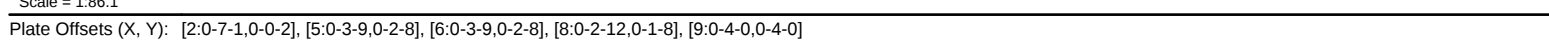
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:34 Page: 1
ID:Vwz0r7BQH8nik6Ss43BbABYvoyt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCdoi7J4zJC?i



LUMBER		3) Provide adequate drainage to prevent water ponding.
TOP CHORD	2x4 SP No.2 *Except* 5-6:2x6 SP No.2	4) All plates are MT20 plates unless otherwise indicated.
BOT CHORD	2x6 SP No.2	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	2x4 SP No.3 *Except* 9-8:2x4 SP No.2	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.
OTHERS	2x6 SP No.2	7) All bearings are assumed to be SP No.2 .
SLIDER	Left 2x6 SP No.2 -- 2-6-0	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2 and 168 lb uplift at joint 9.
BRACING		9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
TOP CHORD	Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS (size) 2=0-3-8, 9=0-3-8		
	Max Horiz 2=352 (LC 11)	
	Max Uplift 2=-202 (LC 12), 9=-168 (LC 13)	
	Max Crav 2=-970 (LC 2), 9=-895 (LC 2)	
LOAD CASE(S) Standard		

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDDL=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 8-11-8, Exterior (2) 8-11-8 to 17-2-7, Interior (1) 17-2-7 to 21-6-8 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



March 14, 2025

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ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	E01	Common Supported Gable	1	1	Job Reference (optional)

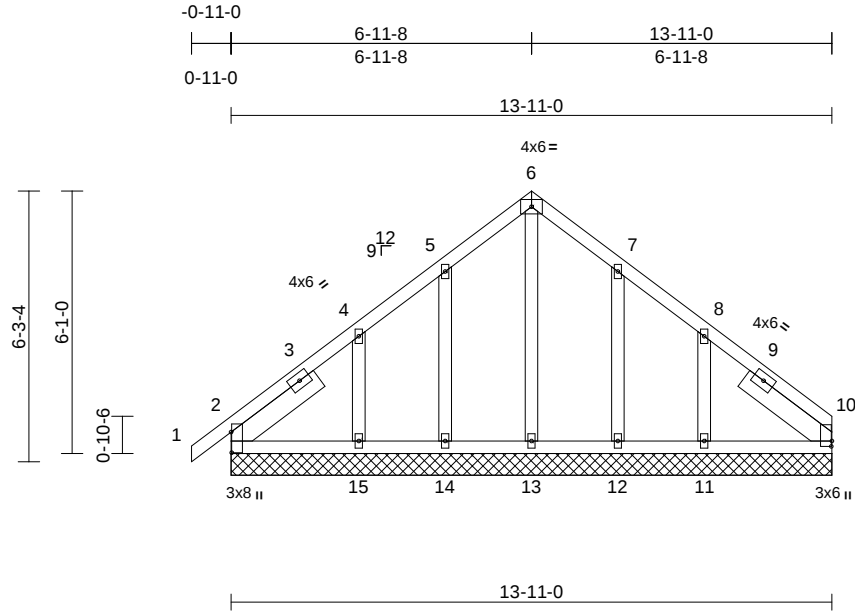
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:35

Page: 1

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Scale = 1:53.4

Plate Offsets (X, Y): [2:0-5-12,0-0-3], [10:0-1-8,0-0-3]

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	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
										Weight: 88 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=13-11-0, 10=13-11-0, 11=13-11-0, 12=13-11-0, 13=13-11-0, 14=13-11-0, 15=13-11-0
Max Horiz	2=189 (LC 11)
Max Uplift	2=-61 (LC 13), 10=-24 (LC 12), 11=-202 (LC 13), 12=-89 (LC 13), 14=-89 (LC 12), 15=-205 (LC 12)
Max Grav	2=227 (LC 20), 10=160 (LC 19), 11=276 (LC 20), 12=161 (LC 20), 13=181 (LC 13), 14=163 (LC 19), 15=271 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-4=-163/118, 4-5=-169/151, 5-6=-235/219, 6-7=-235/219, 7-8=-169/135, 8-10=-160/87
BOT CHORD	2-15=-44/100, 14-15=-44/100, 13-14=-44/100, 12-13=-44/100, 11-12=-44/100, 10-11=-44/100
WEBS	6-13=-173/141, 5-14=-152/123, 4-15=-239/204, 7-12=-150/123, 8-11=-239/202

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 6-11-8, Corner (3) 6-11-8 to 9-11-8, Exterior (2) 9-11-8 to 13-11-0 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
- 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 (II) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 10, 61 lb uplift at joint 2, 89 lb uplift at joint 14, 205 lb uplift at joint 15, 89 lb uplift at joint 12, 202 lb uplift at joint 11, 24 lb uplift at joint 10 and 61 lb uplift at joint 2.

LOAD CASE(S) Standard

March 14, 2025

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	E02	Common	4	1	Job Reference (optional)

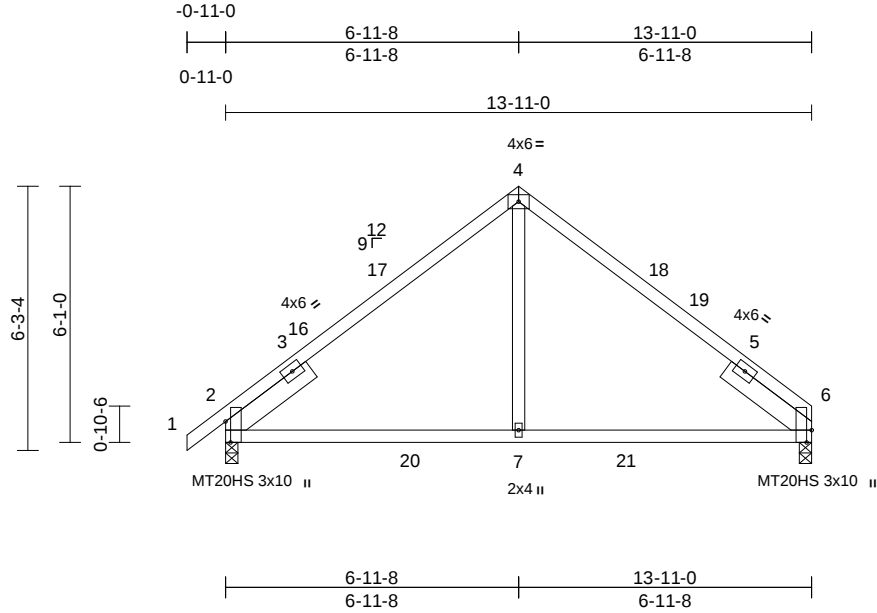
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:35

Page: 1

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Scale = 1:54.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.13	7-10	>999	240	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12	7-10	>999	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.05	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 69 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=189 (LC 11)
Max Uplift	2=-161 (LC 12), 6=-130 (LC 13)
Max Grav	2=644 (LC 19), 6=588 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-4=-642/213, 4-6=-601/216
BOT CHORD	2-7=-368/492, 6-7=-267/492
WEBS	4-7=-7/337

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 6-11-8, Exterior (2) 6-11-8 to 9-11-8, Interior (1) 9-11-8 to 13-11-0 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 130 lb uplift at joint 6 and 161 lb uplift at joint 2.

LOAD CASE(S) Standard



March 14, 2025

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	G01	Monopitch Supported Gable	1	1	Job Reference (optional)

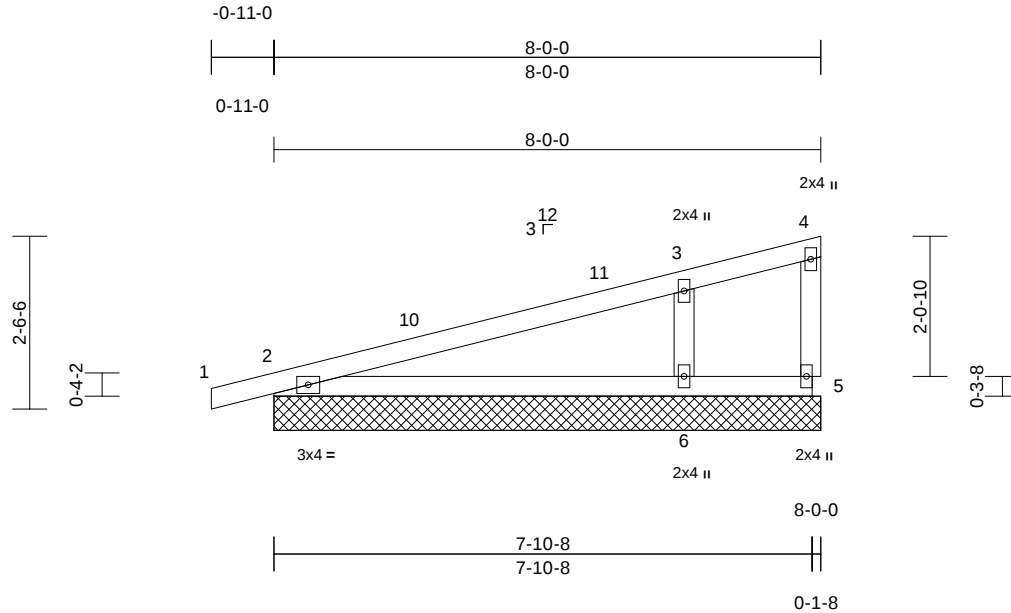
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:35

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	2=8-0-0, 5=8-0-0, 6=8-0-0
Max Horiz	2=118 (LC 8)
Max Uplift	2=-106 (LC 8), 5=-85 (LC 1), 6=-202 (LC 12)
Max Grav	2=250 (LC 1), 5=32 (LC 12), 6=518 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/13, 2-3=-127/61, 3-4=-23/4, 4-5=-30/39
BOT CHORD	2-6=-81/115, 5-6=-14/9
WEBS	3-6=-341/412

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 7-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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" 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'-0" tall by 2'-0" 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 106 lb uplift at joint 2, 85 lb uplift at joint 5, 202 lb uplift at joint 6 and 106 lb uplift at joint 2.

LOAD CASE(S) Standard

March 14, 2025

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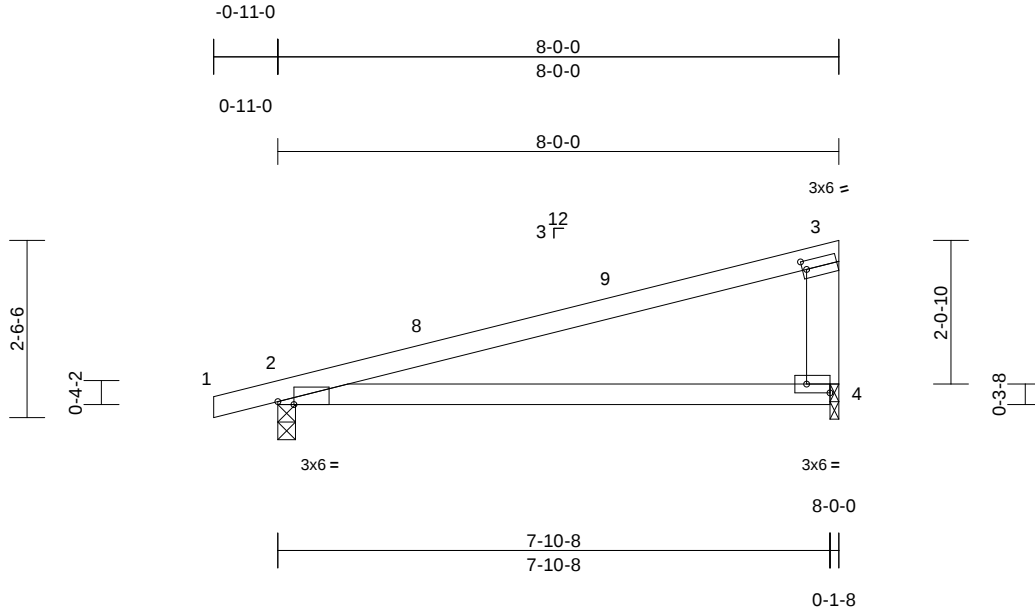
Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill	I72040098
4513022	G02	Monopitch	8	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:35

Page: 1

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Scale = 1:32.9

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-0-11,0-1-8], [4:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.31	4-7	>296	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	4-7	>382	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8'-9" oc bracing.

REACTIONS

(size) 2=0-3-0, 4=0-1-8
Max Horiz 2=117 (LC 8)
Max Uplift 2=-248 (LC 8), 4=-216 (LC 8)
Max Grav 2=369 (LC 1), 4=308 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-217/263, 3-4=-191/185
BOT CHORD 2-4=-291/204

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 7-9-4 zone; cantilever left and right exposed ; end vertical left 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 4 SP No.2 .

- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 2 and 216 lb uplift at joint 4.

LOAD CASE(S) Standard



March 14, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	G03	Monopitch Supported Gable	1	1	Job Reference (optional)

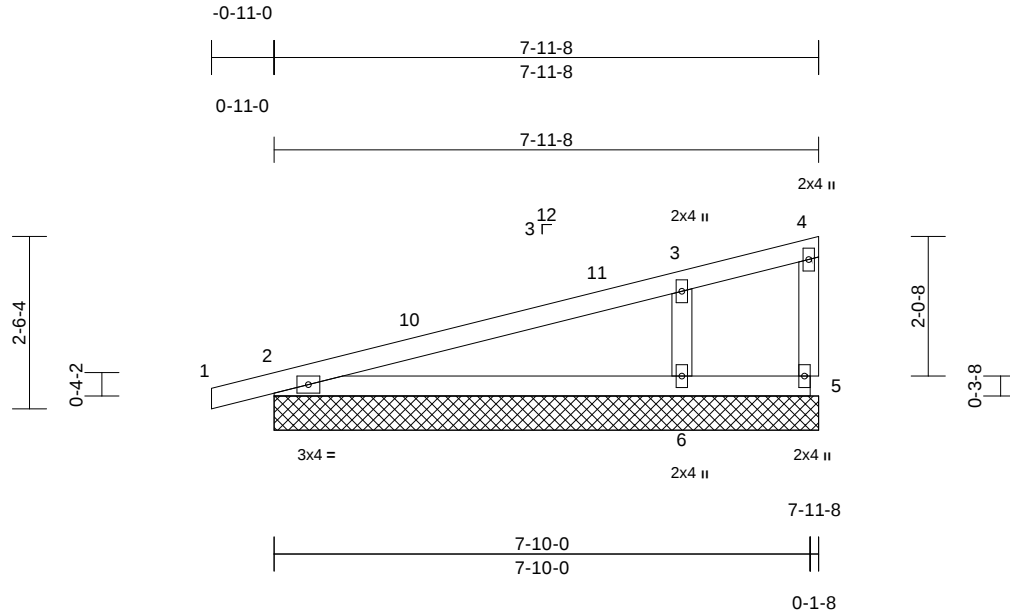
I72040099

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:13:35

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Scale = 1:33.7

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	2=7-11-8, 5=7-11-8, 6=7-11-8
	Max Horiz	2=118 (LC 8)
	Max Uplift	2=-106 (LC 8), 5=-83 (LC 1), 6=-200 (LC 12)
	Max Grav	2=249 (LC 1), 5=31 (LC 12), 6=514 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=0/13, 2-3=-126/61, 3-4=-23/4, 4-5=-28/37
BOT CHORD	2-6=-81/115, 5-6=-14/9
WEBS	3-6=-338/410

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 7-9-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 106 lb uplift at joint 2, 83 lb uplift at joint 5, 200 lb uplift at joint 6 and 106 lb uplift at joint 2.

LOAD CASE(S) Standard

March 14, 2025

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

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

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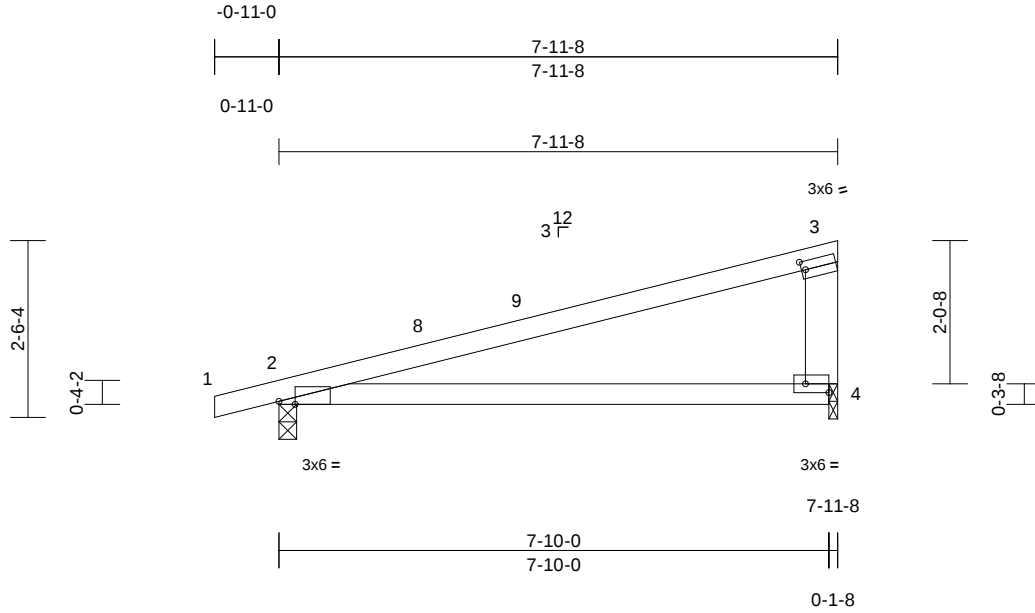
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513022	G04	Jack-Partial Supported Gable	8	1	Job Reference (optional)
					I72040100

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Scale = 1:32.8

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-0-11,0-1-8], [4:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.32	4-7	>289	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	4-7	>388	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.

REACTIONS

(size) 2=0-3-0, 4=0-1-8
Max Horiz 2=117 (LC 8)
Max Uplift 2=-247 (LC 8), 4=-215 (LC 8)
Max Grav 2=367 (LC 1), 4=306 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-216/272, 3-4=-190/199
BOT CHORD 2-4=-305/202

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 7-8-12 zone; cantilever left and right exposed; end vertical left 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.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 4 SP No.2.

- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 2 and 215 lb uplift at joint 4.

LOAD CASE(S) Standard



March 14, 2025

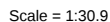
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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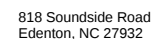
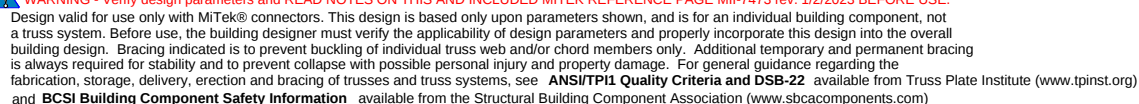
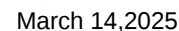
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TP12014	Matrix-MP							Weight: 13 lb	FT = 20%

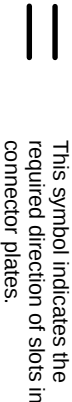
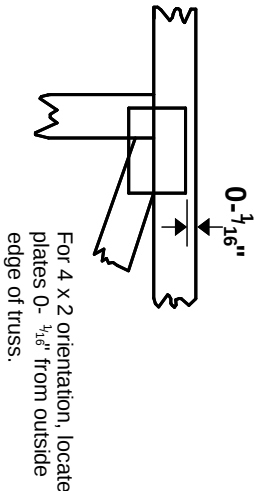
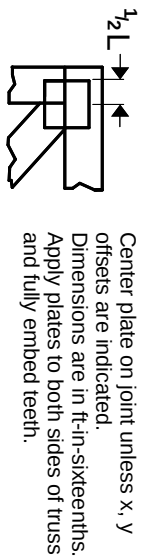
LOAD CASE(S) Standard

- 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) 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2'-0" oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

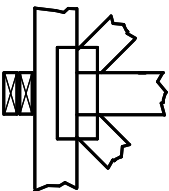
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

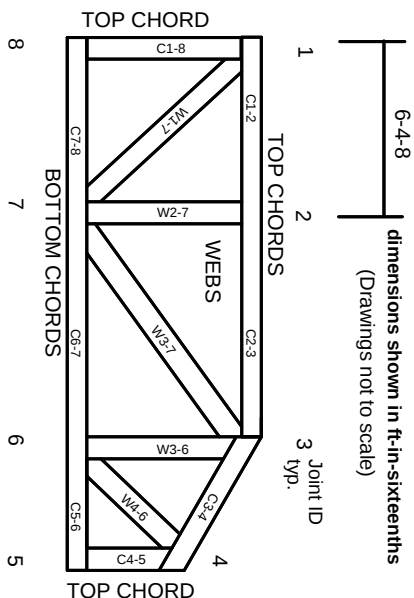


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: 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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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