

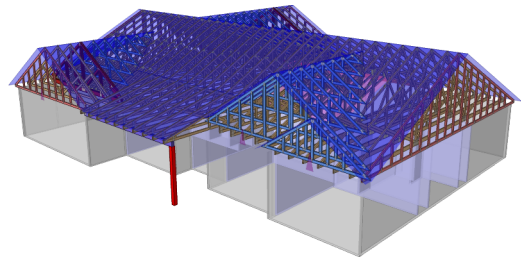


Kempsville Chesapeake Component Plant
3300 Bus Center Dr
Chesapeake, VA 23323

Phone #:757-485-8590

**Builder: Mitchell Homes,
Inc.**

Model: SPENCER



THE PLACEMENT PLAN NOTES:

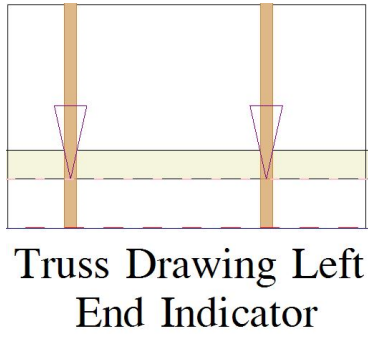
1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By: _____

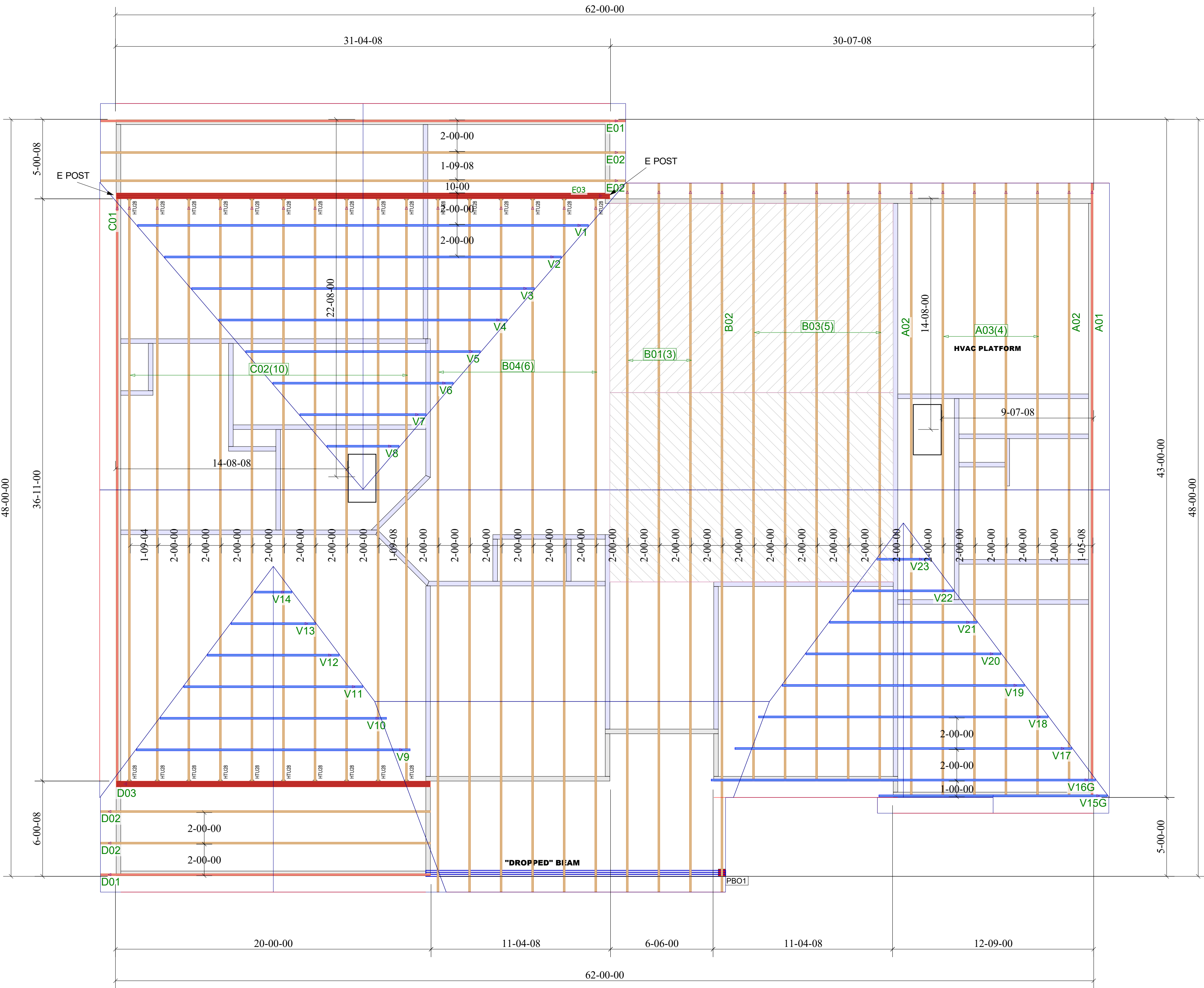
Date: _____

General Notes: ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE. ** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. ** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE. ** ALL UPLIFT CONNECTORS SHOWN WITHIN THESE DOCUMENTS ARE RECOMMENDATIONS ONLY. PER ANS/TPI 1, ALL UPLIFT CONNECTORS ARE THE RESPONSIBILITY OF THE BLDG DESIGNER AND OR CONTRACTOR.

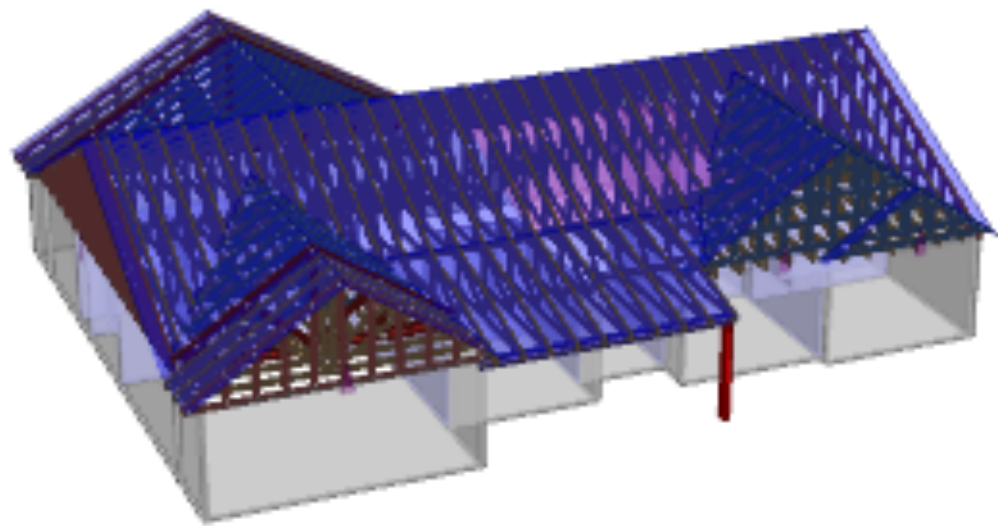


Truss Drawing Left End Indicator



Hatch Legend		
	4/12 VAULT	

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HTU28	26



APPROX. ROOF AREA. (DOES NOT INCLUDE AREA UNDER VALLEYS)
3298.11

FB# - Flush Beam
DB# - Dropped Beam
BBO - Beam that is not supplied by the component plant

Revisions	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.



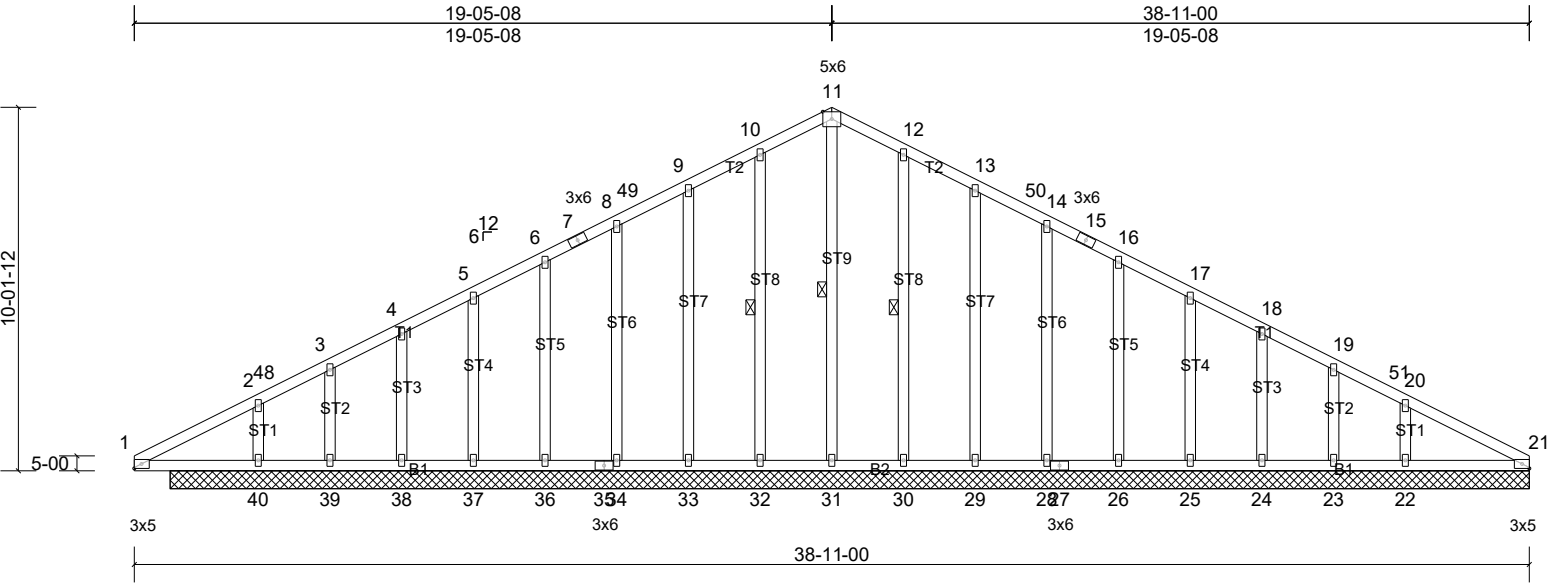
Mitchell Homes, Inc.
SPENCER
Roof PLACEMENT PLAN

Scale:	NTS
Date:	3/3/2025
Designer:	Jon Rife
Project Number:	25020278-B
Sheet Number:	

1/1

** TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS. ** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES. ** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

Job 25020278-B	Truss A01	Truss Type Common Supported Gable	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:64.6

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.02	21	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 258 lb FT = 20%

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

BRACING
TOP CHORD
BOT CHORD
WEBS
Structural wood sheathing directly applied or 10-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.
1 Row at midpt 11-31, 10-32, 12-30

REACTIONS All bearings 37-11-00.
(lb) - Max Horiz 40=219 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 21, 24, 25, 26, 28, 29, 30, 32, 33, 34, 36, 37, 38, 44 except 22=152 (LC 15), 23=161 (LC 16), 39=171 (LC 15), 40=157 (LC 16)
Max Grav All reactions 250 (lb) or less at joint(s) 21, 23, 24, 25, 26, 28, 29, 33, 34, 36, 37, 38, 39, 44 except 22=411 (LC 39), 30=258 (LC 22), 31=360 (LC 28), 32=258 (LC 21), 40=407 (LC 38)

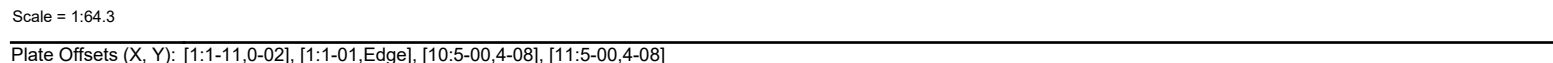
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-156/271, 3-48=-94/257, 3-4=-23/267, 4-5=0/280, 5-6=0/292, 6-7=0/280, 7-8=0/305, 8-49=-15/298, 9-49=-10/316, 9-10=-34/376, 10-11=-53/433, 11-12=-53/433, 12-13=-34/376, 13-50=-10/316, 14-50=-15/298, 14-15=0/305, 15-16=0/280, 16-17=0/292, 17-18=0/280, 18-19=-24/268, 19-51=-92/256, 20-21=-156/271, 11-31=-319/0, 2-40=-248/270, 20-22=-249/273

WEBS

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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 Corner(3E) 0-0-0 to 3-10-13, Exterior(2N) 3-10-13 to 19-5-8, Corner(3R) 19-5-8 to 23-5-8, Exterior(2N) 23-5-8 to 38-11-0 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=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TC LL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 36, 37, 38, 30, 29, 28, 26, 25, 24 except (jt=lb) 39=171, 40=157, 23=161, 22=152.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Carter Components, jon.rife Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Mon Mar 03 10:04:05 Page: 1



LUMBER		BRACING	
TOP CHORD	2x4 SP No.1 *Except* T1:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP 2400F 2.0E *Except* B2:2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2	WEBS	1 Row at midpt 5-10
WEDGE	Left: 2x8 SP 2400F 2.0E		
REACTIONS	(lb/size) 1=1629/3-08, (min. 1-08), 9=1546/3-08, (min. 1-08)		
	Max Horiz 1=219 (LC 15)		
	Max Uplift 1=-421 (LC 15), 9=-404 (LC 16)		
	Max Grav 1=1778 (LC 4), 9=1687 (LC 4)		

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

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

TOP CHORD 1-20=-3304/690, 2-20=-3259/712, 2-3=-2997/592, 3-4=-2863/611, 4-21=-3075/743, 21-22=-3019/753, 5-22=-2994/774, 5-23=-3162/811, 23-24=-3184/790, 6-24=-3240/780, 6-7=-3047/645, 7-8=-3181/627, 8-25=-3557/791, 9-25=-3616/775

BOT CHORD 1-11=-731/2853, 11-26=-230/1855, 26-27=-230/1855, 10-27=-230/1855, 9-10=-600/3175

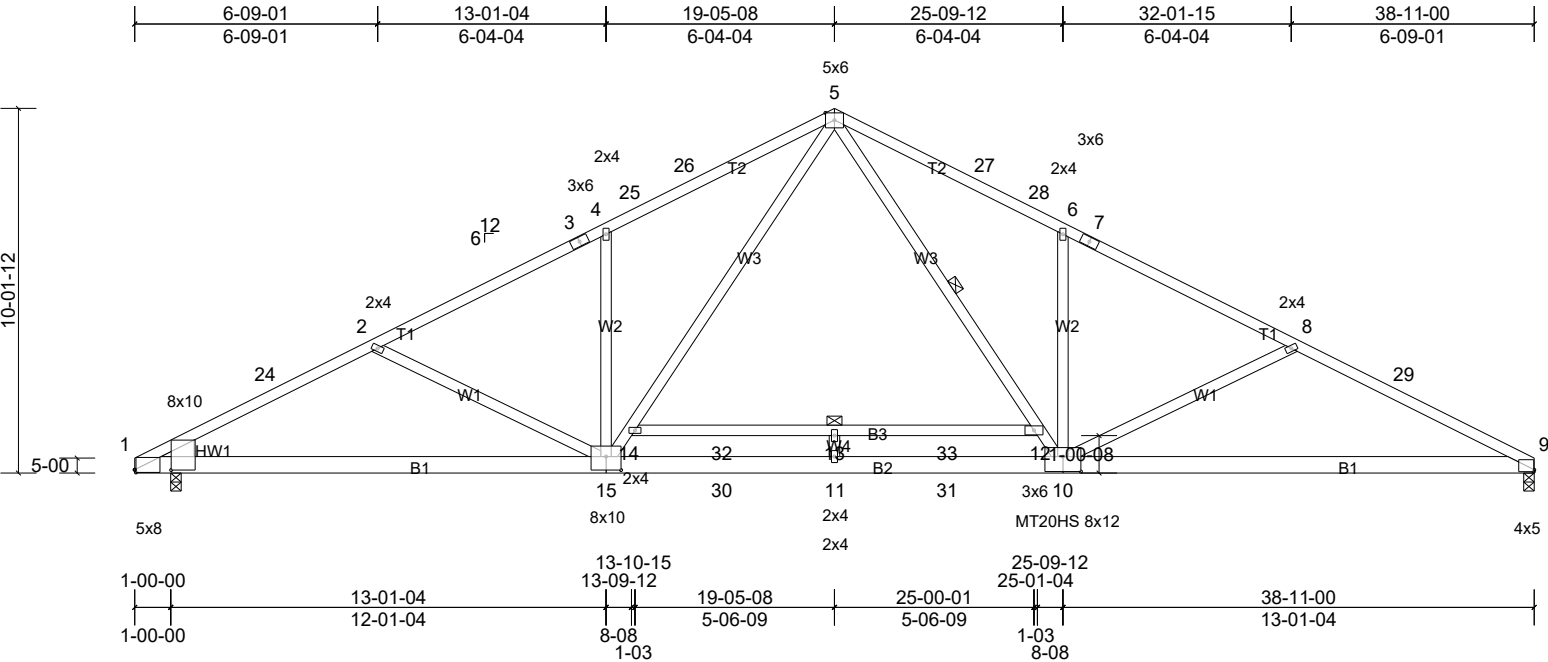
WEBS 4-11=-556/385, 5-11=-423/1278, 2-11=-337/302, 5-10=-468/1555, 6-10=-524/372, 8-10=-529/363

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-10-13, Interior (1) 3-10-13 to 19-5-8, Exterior(2R) 19-5-8 to 23-4-5, Interior (1) 23-4-5 to 38-11-0 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=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 9 and 421 lb uplift at joint 1.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss A03	Truss Type Common	Qty 4	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:64.3

Plate Offsets (X, Y): [1:0-07,0-14], [1:0-01,1-00-03], [9:0-03,0-10], [10:6-00,5-00], [15:5-00,4-08]												
Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.50	11	>943	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.84	11-15	>557	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 249 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP 2400F 2.0E *Except* T1:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP 2400F 2.0E *Except* B3:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2	WEBS	1 Row at midpt 5-10
WEDGE	Left: 2x6 SP No.2		
REACTIONS (lb/size)	1=1747/3-08, (min. 1-11), 9=1657/3-08, (min. 1-09)		
Max Horiz	1=219 (LC 15)		
Max Uplift	1=-351 (LC 15), 9=-337 (LC 16)		
Max Grav	1=2023 (LC 4), 9=1919 (LC 4)		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-24=-3816/542, 2-24=-3765/566, 2-3=-3509/435, 3-4=-3390/454, 4-25=-3607/586, 25-26=-3585/595, 5-26=-3525/616, 5-27=-3723/651, 27-28=-3746/630, 6-28=-3802/620, 6-7=-3606/485, 7-8=-3740/467, 8-29=-4107/633, 9-29=-4179/616
BOT CHORD	1-15=-605/3296, 15-30=-112/2238, 11-30=-112/2238, 11-31=-112/2238, 10-31=-112/2238, 9-10=-460/3663
WEBS	4-15=-560/383, 14-15=-380/1419, 5-14=-342/1545, 2-15=-302/320, 6-10=-524/373, 5-12=-382/1872, 10-12=-420/1747, 8-10=-513/367, 11-13=-318/0

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-10-13, Interior (1) 3-10-13 to 19-5-8, Exterior(2R) 19-5-8 to 23-4-5, Interior (1) 23-4-5 to 38-11-0 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=1.33

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) All plates are MT20 plates unless otherwise indicated.

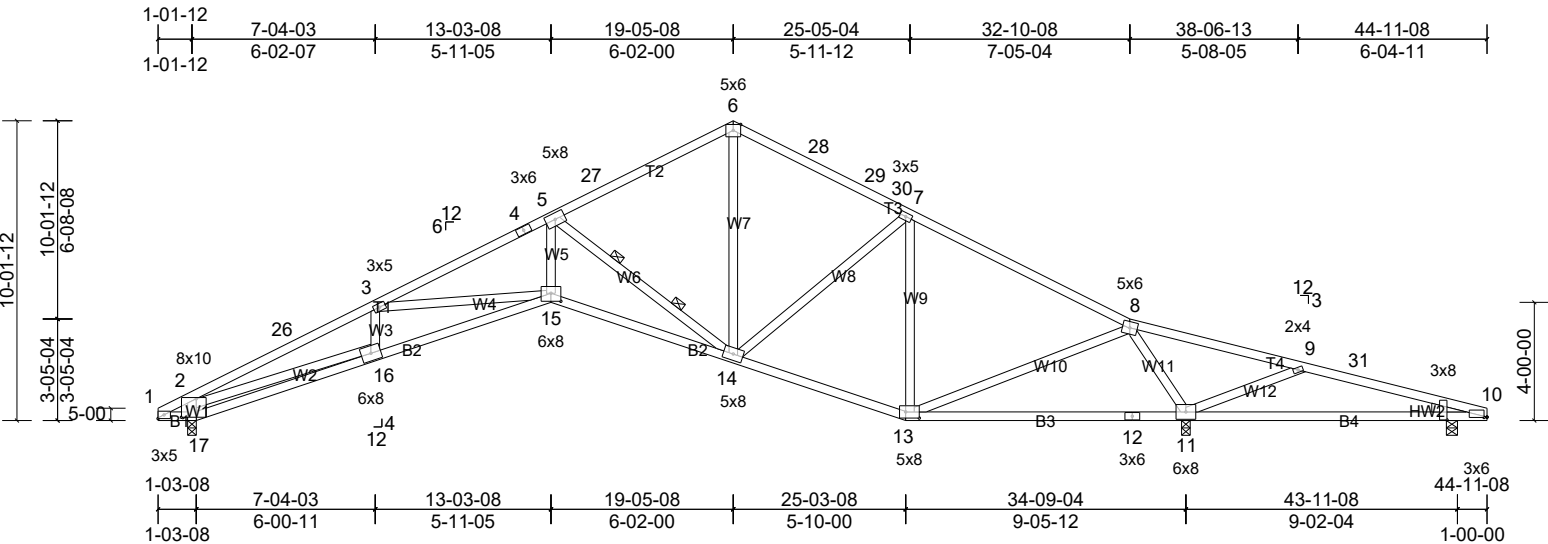
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 9 and 351 lb uplift at joint 1.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	SPENCER-Roof
25020278-B	B01	Roof Special	3	1	Job Reference (optional)



Scale = 1:78.3

Plate Offsets (X, Y): [2:6-00,7-08], [10:1-03,0-02], [10:1-02,1-04-04], [13:5-08,2-08], [15:4-00,3-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	0.40	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.74	15-16	>545	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.44	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 235 lb	FT = 20%

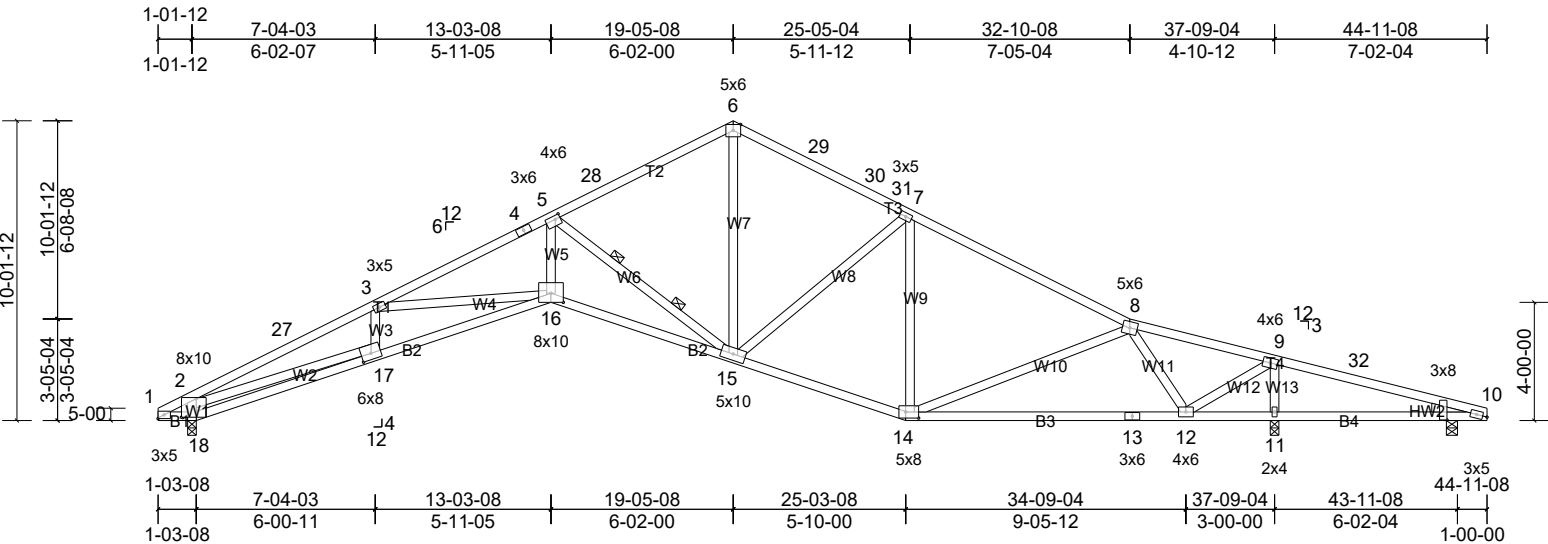
LUMBER		BRACING	
TOP CHORD	2x4 SP No.1 *Except* T3,T1:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2 *Except* B2:2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 4-11-5 oc bracing.
WEBS	2x4 SP No.3 *Except* W2,W5:2x4 SP No.2	WEBS	2 Rows at 1/3 pts 5-14
WEDGE	Right: 2x4 SP No.3		
REACTIONS (lb/size)	10=-43/4-08, (min. 1-08), 11=2382/3-08, (min. 2-13), 17=1329/3-08, (min. 1-08)		
Max Horiz	17=220 (LC 15)		
Max Uplift	10=-195 (LC 21), 11=-552 (LC 16), 17=-356 (LC 15)		
Max Grav	10=239 (LC 45), 11=2382 (LC 1), 17=1375 (LC 21)		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-525/190, 2-26=-4216/1220, 3-26=-4133/1236, 3-4=-4047/1157, 4-5=-3900/1162, 5-27=-1477/569, 6-27=-1401/599, 6-28=-1404/607, 28-29=-1408/593, 29-30=-1472/578, 7-30=-1485/575, 7-8=-1205/467, 8-9=-604/1820, 9-31=-350/1194, 10-31=-360/1163
BOT CHORD	1-17=-252/607, 16-17=-405/453, 15-16=-1210/3864, 14-15=-906/3765, 13-14=-179/1049, 12-13=-656/274, 11-12=-656/274, 10-11=-1110/368
WEBS	2-17=-1459/674, 2-16=-874/3372, 6-14=-289/905, 7-14=-67/496, 7-13=-809/311, 8-13=-444/1649, 8-11=-2280/868, 9-11=-993/420, 3-16=-264/185, 3-15=-268/286, 5-15=-588/2508, 5-14=-3047/929

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-6-0, Interior (1) 4-6-0 to 19-5-8, Exterior(2R) 19-5-8 to 23-11-8, Interior (1) 23-11-8 to 44-11-8 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=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 17 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 capable of withstanding 552 lb uplift at joint 11, 356 lb uplift at joint 17 and 195 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	SPENCER-Roof
25020278-B	B02	Roof Special	1	1	Job Reference (optional)



Scale = 1:78.3

Plate Offsets (X, Y): [2:6-00,7-08], [5:2-00,1-08], [10:1-14,1-08], [10:1-02,1-04-04], [14:5-04,2-08], [16:5-00,3-11], [17:4-00,2-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	0.47	16-17	>935	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.86	16-17	>511	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.51	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 236 lb	FT = 20%

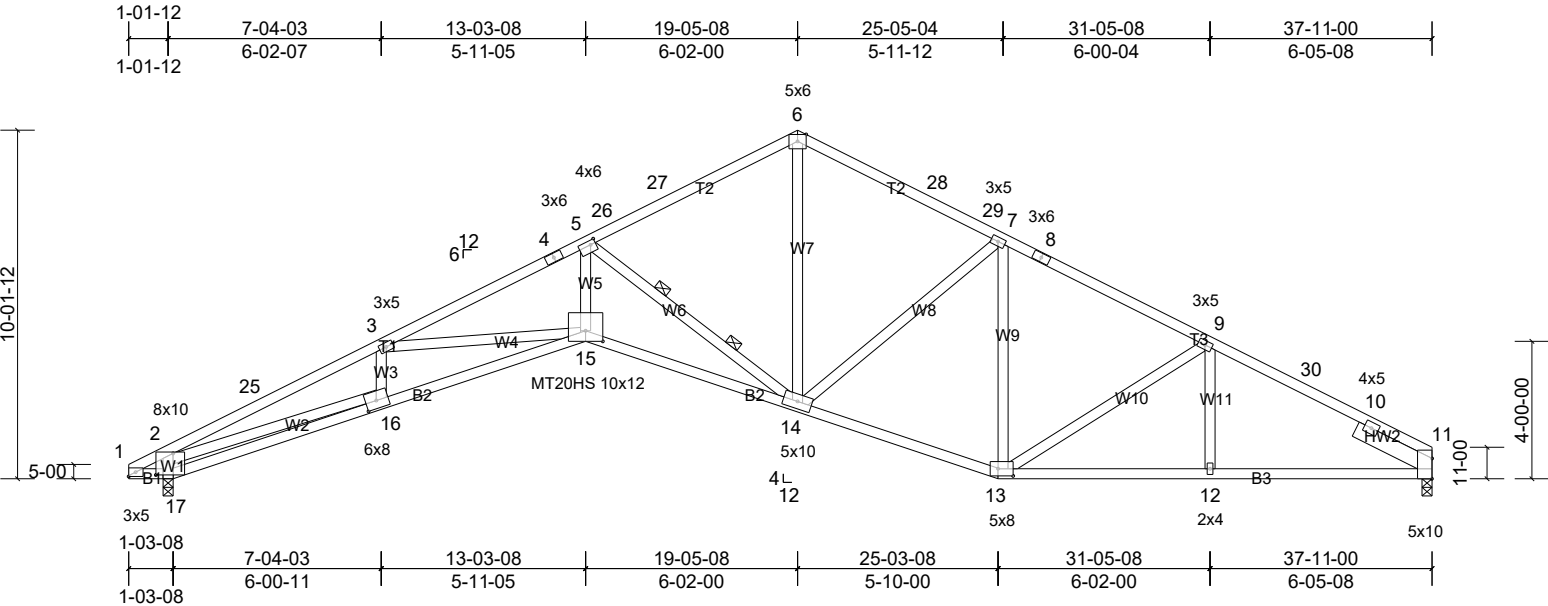
LUMBER	BRACING
TOP CHORD	TOP CHORD
BOT CHORD	BOT CHORD
WEBS	WEBS
WEDGE	
REACTIONS (lb/size)	
10=-160/4-08, (min. 1-08), 11=2323/3-08, (min. 2-12), 18=1504/3-08, (min. 1-08)	
Max Horiz 18=220 (LC 15)	
Max Uplift 10=-277 (LC 21), 11=-535 (LC 16), 18=-393 (LC 15)	
Max Grav 10=136 (LC 45), 11=2323 (LC 1), 18=1525 (LC 21)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-600/205, 2-27=-4933/1458, 3-27=-4847/1473, 3-4=-4864/1445, 4-5=-4742/1463, 5-28=-1957/725, 6-28=-1882/755, 6-29=-1886/767, 29-30=-1889/753, 30-31=-1954/738, 7-31=-1967/735, 7-8=-1919/706, 8-9=-693/293, 9-32=-398/1490, 10-32=-404/1439
BOT CHORD	1-18=-267/681, 17-18=-412/489, 16-17=-1342/4533, 15-16=-1137/4463, 14-15=-403/1675, 13-14=-356/1253, 12-13=-356/1253, 11-12=-1408/436, 10-11=-1408/436
WEBS	3-17=-332/208, 6-15=-431/1333, 7-15=-143/316, 7-14=-522/220, 8-14=-115/528, 2-18=-1640/729, 8-12=-1353/542, 2-17=-1076/3962, 5-16=-690/2946, 3-16=-155/251, 5-15=-3442/1036, 9-11=-2212/701, 9-12=-603/2306

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-6-0, Interior (1) 4-6-0 to 19-5-8, Exterior(2R) 19-5-8 to 23-11-8, Interior (1) 23-11-8 to 44-11-8 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=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 18 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 capable of withstanding 535 lb uplift at joint 11, 393 lb uplift at joint 18 and 277 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss B03	Truss Type Roof Special	Qty 5	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:67.3

Plate Offsets (X, Y): [2:6-00,7-08], [5:1-12,1-08], [11:7-01,Edge], [13:5-04,2-08], [15:6-00,3-11], [16:3-12,2-12]												
Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	0.52	15	>853	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.93	15-16	>475	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.58	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 211 lb FT = 20%	

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1 *Except* B1:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.1, W5,W6:2x4 SP No.2	WEBS	2 Rows at 1/3 pts 5-14
SLIDER	Right 2x6 SP No.2 -- 2-06-00		
REACTIONS	(lb/size) 11=1498/3-08, (min. 1-12), 17=1595/3-08, (min. 1-08)		
	Max Horiz 17=234 (LC 15)		
	Max Uplift 11=385 (LC 16), 17=416 (LC 15)		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-590/204, 2-25=-5317/1406, 3-25=-5232/1426, 3-4=-5340/1316, 4-5=-5218/1333, 5-26=-2207/590, 26-27=-2152/599, 6-27=-2132/620, 6-28=-2134/630, 28-29=-2198/601, 7-29=-2211/598, 7-8=-2135/616, 8-9=-2245/599, 9-30=-2506/624, 10-30=-2549/610
BOT CHORD	1-17=-263/670, 16-17=-421/458, 15-16=-1460/4901, 14-15=-1220/4915, 13-14=-354/2020, 12-13=-449/2172, 11-12=-449/2172
WEBS	2-17=-1729/675, 2-16=-1011/4340, 3-16=-372/201, 5-15=-769/3207, 5-14=-3627/1106, 6-14=-333/1540, 7-14=-211/312, 7-13=-343/137, 9-13=-317/224

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-9-9, Interior (1) 3-9-9 to 19-5-8, Exterior(2R) 19-5-8 to 23-3-1, Interior (1) 23-3-1 to 37-11-0 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=1.33

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) All plates are MT20 plates unless otherwise indicated.

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.

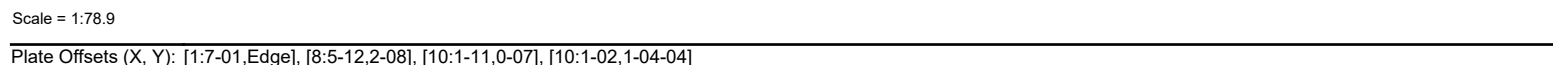
7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 11 and 416 lb uplift at joint 17.

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

LOAD CASE(S) Standard

Carter Components, jon.rife Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Mon Mar 03 10:04:08 Page: 1
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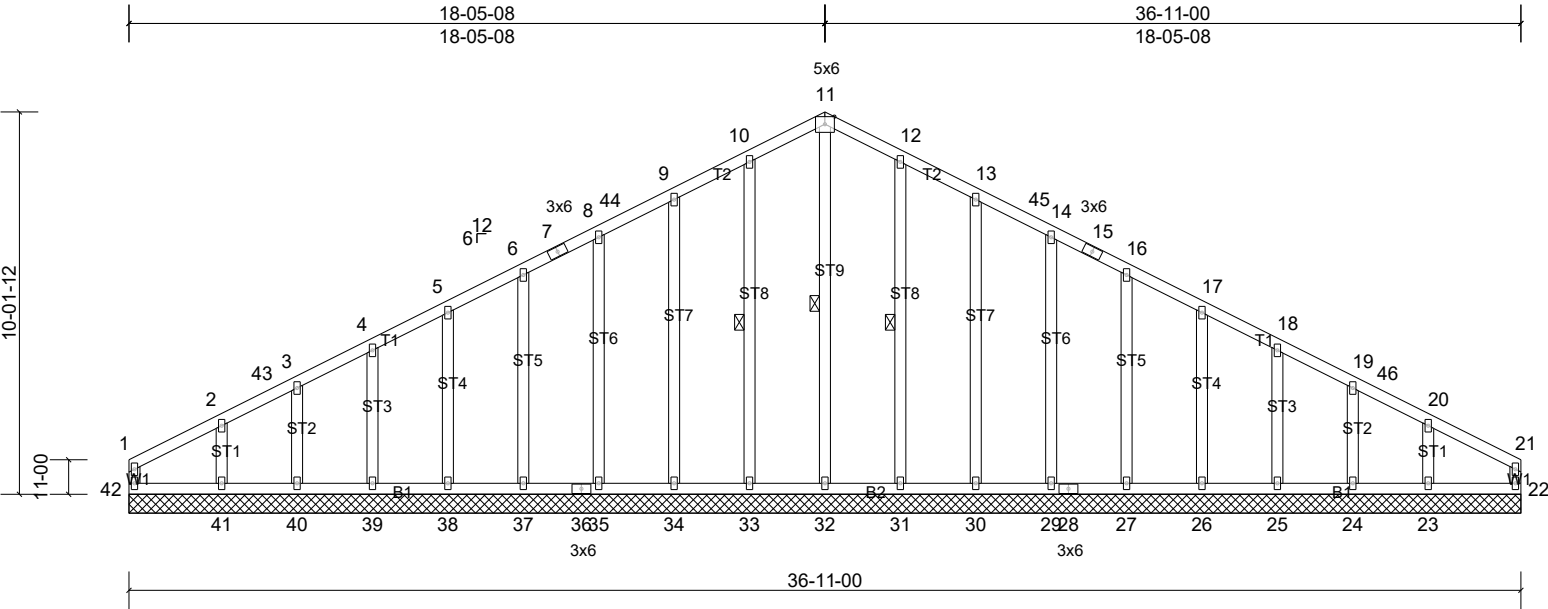
LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T1:2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-15, 7-15, 8-11
WEDGE	Right: 2x4 SP No.3		
SLIDER	Left 2x6 SP No.2 -- 2-06-00		
REACTIONS (lb/size) 1=1461/ Mechanical. (min. 1-08). 10=111/4-08. (min. 1-08).			

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-27=-3031/822, 3-27=-2944/846, 3-4=-2915/860, 4-5=-2803/877, 5-28=-2107/704, 6-28=-2030/733, 6-29=-2020/726 29-30=-2028/710, 30-31=-2062/703, 7-31=-2115/694, 7-8=-2594/763, 8-9=-194/804, 9-32=-140/626, 10-32=-151/580
BOT CHORD	1-17=-636/2577, 17-33=-474/2203, 33-34=-474/2203, 16-34=-474/2203, 15-16=-474/2203, 15-35=-440/2197, 14-35=-440/2197, 13-14=-463/2112, 12-13=-463/2112, 11-12=-459/2119, 10-11=-573/185
WEBS	3-17=-192/259, 5-17=-131/565, 5-15=-773/399, 6-15=-384/1444, 7-15=-705/364, 7-14=0/253, 8-11=-3454/888, 9-11=-562/260

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-4-12, Interior (1) 4-4-12 to 18-5-8, Exterior(2R) 18-5-8 to 22-10-4, Interior (1) 22-10-4 to 43-11-8 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=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 376 lb uplift at joint 1, 539 lb uplift at joint 11 and 104 lb uplift at joint 10.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss C01	Truss Type Common Supported Gable	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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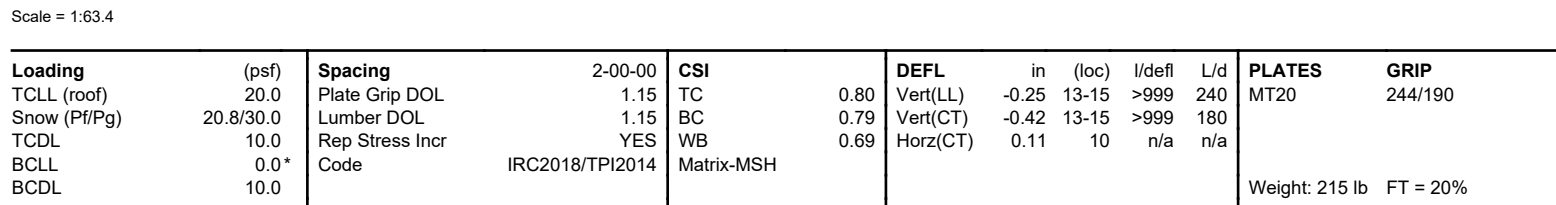
Scale = 1:61.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 254 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 11-32, 10-33, 12-31
OTHERS	2x4 SP No.3		
REACTIONS	All bearings 36-11-00.		
(lb) - Max Horiz	42=-184 (LC 11)		
Max Uplift	All uplift 100 (lb) or less at joint(s) 22, 24, 25, 26, 27, 29, 30, 31, 33, 34, 35, 37, 38, 39, 40, 42 except 23=-171 (LC 16), 41=-186 (LC 15)		
Max Grav	All reactions 250 (lb) or less at joint(s) 22, 23, 24, 25, 26, 27, 29, 30, 31, 33, 34, 35, 37, 38, 39, 40, 41, 42 except 32=265 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	6-7=-123/306, 7-8=-114/312, 8-44=-145/366, 9-44=-129/375, 9-10=-169/444, 10-11=-189/500, 11-12=-189/500, 12-13=-169/444, 13-45=-129/375, 14-45=-145/366, 14-15=-114/312, 15-16=-123/306		
WEBS	11-32=-333/78		
NOTES			
1)	Unbalanced roof live loads have been considered for this design.		
2)	Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-12 to 3-9-11, Exterior(2N) 3-9-11 to 18-5-8, Corner(3R) 18-5-8 to 22-1-7, Exterior(2N) 22-1-7 to 36-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33		
3)	Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.		
4)	TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10		
5)	Unbalanced snow loads have been considered for this design.		
6)	All plates are 2x4 MT20 unless otherwise indicated.		
7)	Gable requires continuous bottom chord bearing.		
8)	Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).		
9)	Gable studs spaced at 2-0-0 oc.		
10)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.		
11)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 22, 33, 34, 35, 37, 38, 39, 40, 31, 30, 29, 27, 26, 25, 24 except (jt=lb) 41=186, 23=170.		
12)	This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.		

LOAD CASE(S) Standard

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FORCES	
(lb) - Max. Comp./Max. Tens. All forces 250 (lb) or less except when shown.	
BOT CHORD	1-17=-610/160, 2-17=-527/177, 2-3=-2924/597, 3-4=-2797/627, 4-18=-2176/541, 18-19=-2121/551, 5-19=-2100/571, 5-20=-2100/571, 20-21=-2121/551, 6-21=-2176/541, 6-7=-2797/627, 7-8=-2924/597, 8-22=-526/177, 9-22=-610/160, 1-16=-437/182, 9-10=-437/182
BOT CHORD	15-16=-655/2608, 15-23=-449/2292, 14-23=-449/2292, 14-24=-449/2292, 13-24=-449/2292, 13-25=-356/2291, 12-25=-356/2291, 12-26=-356/2291, 11-26=-356/2291, 10-11=-494/2605
WEBS	5-13=-284/1513, 6-13=-766/381, 6-11=-90/528, 8-11=-185/264, 4-13=-766/381, 4-15=-90/528, 2-15=-185/263, 2-16=-2519/485, 8-10=-2519/484

- ### NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-10-11, Interior (1) 3-10-11 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-7, Interior (1) 22-1-7 to 36-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 381 lb uplift at joint 16 and 381 lb uplift at joint 10.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

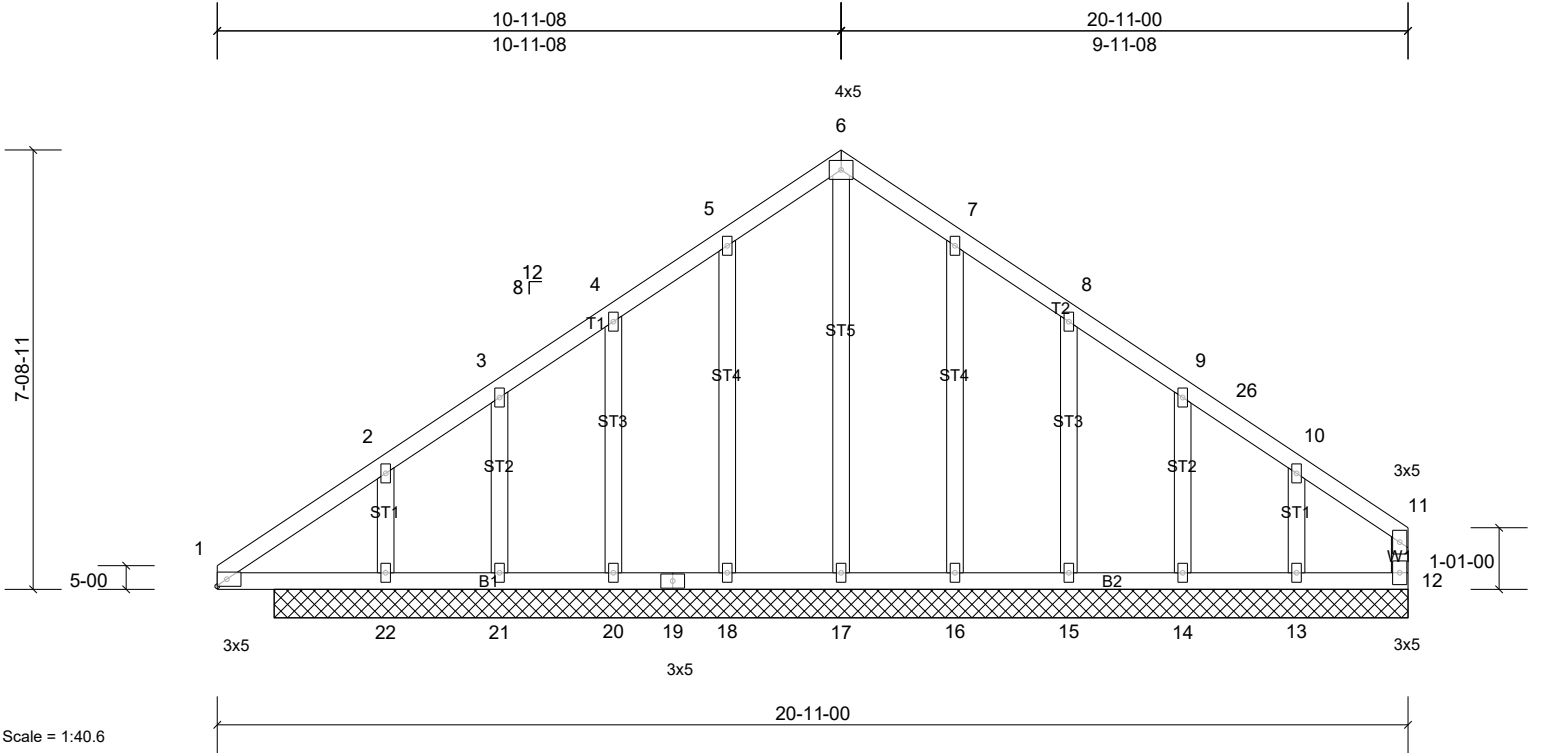
LOAD CASE(S) Standard

Job 25020278-B	Truss D01	Truss Type Common Supported Gable	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Carter Components, jon.rife

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Page: 1

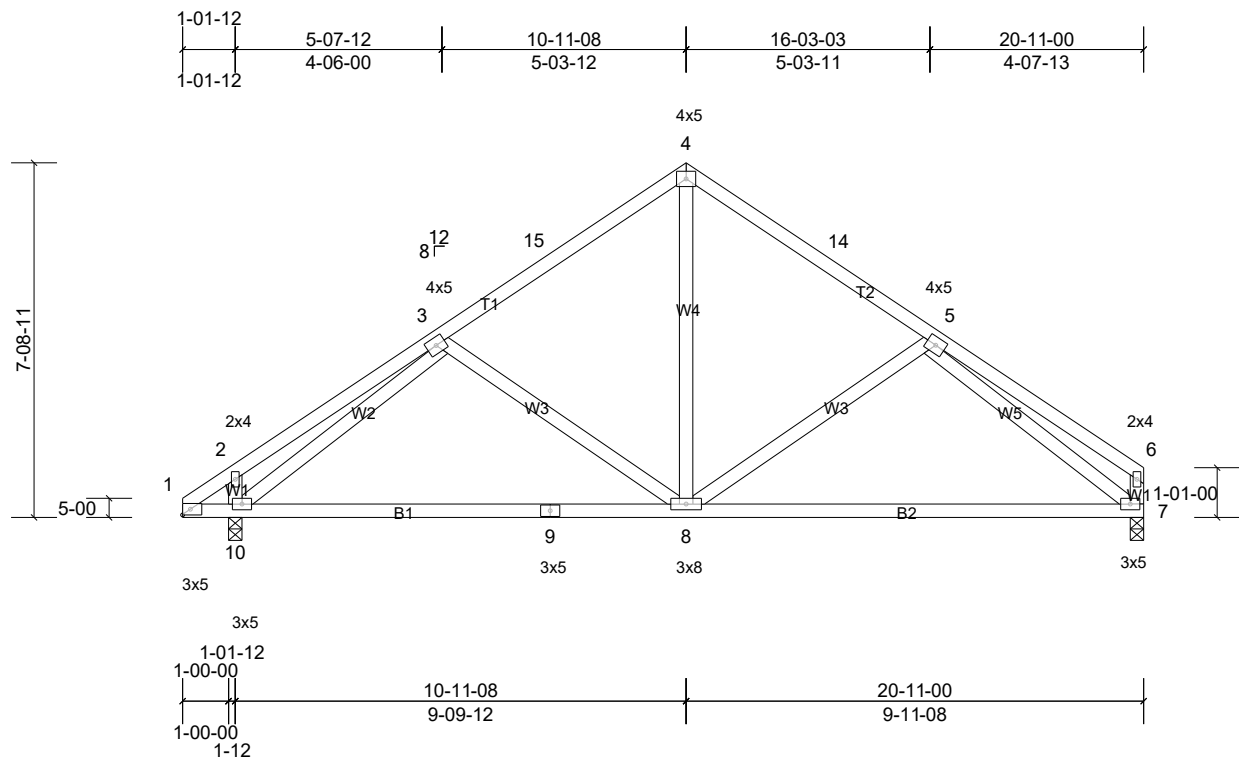


Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horiz(TL)	-0.01	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 126 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
REACTIONS	All bearings 19-11-00.		
	(lb) - Max Horiz 22=261 (LC 12)		
	Max Uplift All uplift 100 (lb) or less at joint(s) 14, 16, 18 except 12=227 (LC 12), 13=205 (LC 14), 15=112 (LC 14), 20=103 (LC 13), 21=120 (LC 13), 22=116 (LC 13)		
	Max Grav All reactions 250 (lb) or less at joint(s) 12, 14, 15, 16, 18, 20, 21 except 13=356 (LC 23), 17=355 (LC 24), 22=323 (LC 1)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	6-7=-102/322, 7-8=-55/262, 10-11=-185/309, 5-6=-102/322		
WEBS	6-17=-313/7, 2-22=-258/198		
NOTES			
1)	Unbalanced roof live loads have been considered for this design.		
2)	Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 2-11-8, Exterior(2N) 2-11-8 to 10-11-8, Corner(3R) 10-11-8 to 13-11-8, Exterior(2N) 13-11-8 to 20-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33		
3)	Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.		
4)	TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.;		
5)	Ce=0.9; Cs=1.00; Ct=1.10		
6)	All plates are 2x4 MT20 unless otherwise indicated.		
7)	Gable studs spaced at 2-0-0 oc.		
8)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.		
9)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 16, 14 except (jt=lb) 12=226, 20=103, 21=119, 22=115, 15=112, 13=205.		
10)	Non Standard bearing condition. Review required.		
11)	This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.		

LOAD CASE(S) Standard

Job 25020278-B	Truss D02	Truss Type Common	Qty 2	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.02	8	>999	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 117 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=798/3-08, (min. 1-08), 10=897/3-08, (min. 1-08)
Max Horiz 10=261 (LC 12)
Max Uplift 7=-191 (LC 14), 10=-223 (LC 13)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-14=-819/261, 5-14=-901/241, 5-6=-308/75, 2-3=-364/81, 3-15=-901/243, 4-15=-819/262, 6-7=-274/97
BOT CHORD 9-10=-271/839, 8-9=-271/839, 7-8=-195/836
WEBS 5-8=-290/292, 4-8=-101/541, 3-8=-289/284, 5-7=-859/259, 3-10=-773/269, 2-10=-251/265

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-11-8, Exterior(2R) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 20-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 7 and 223 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

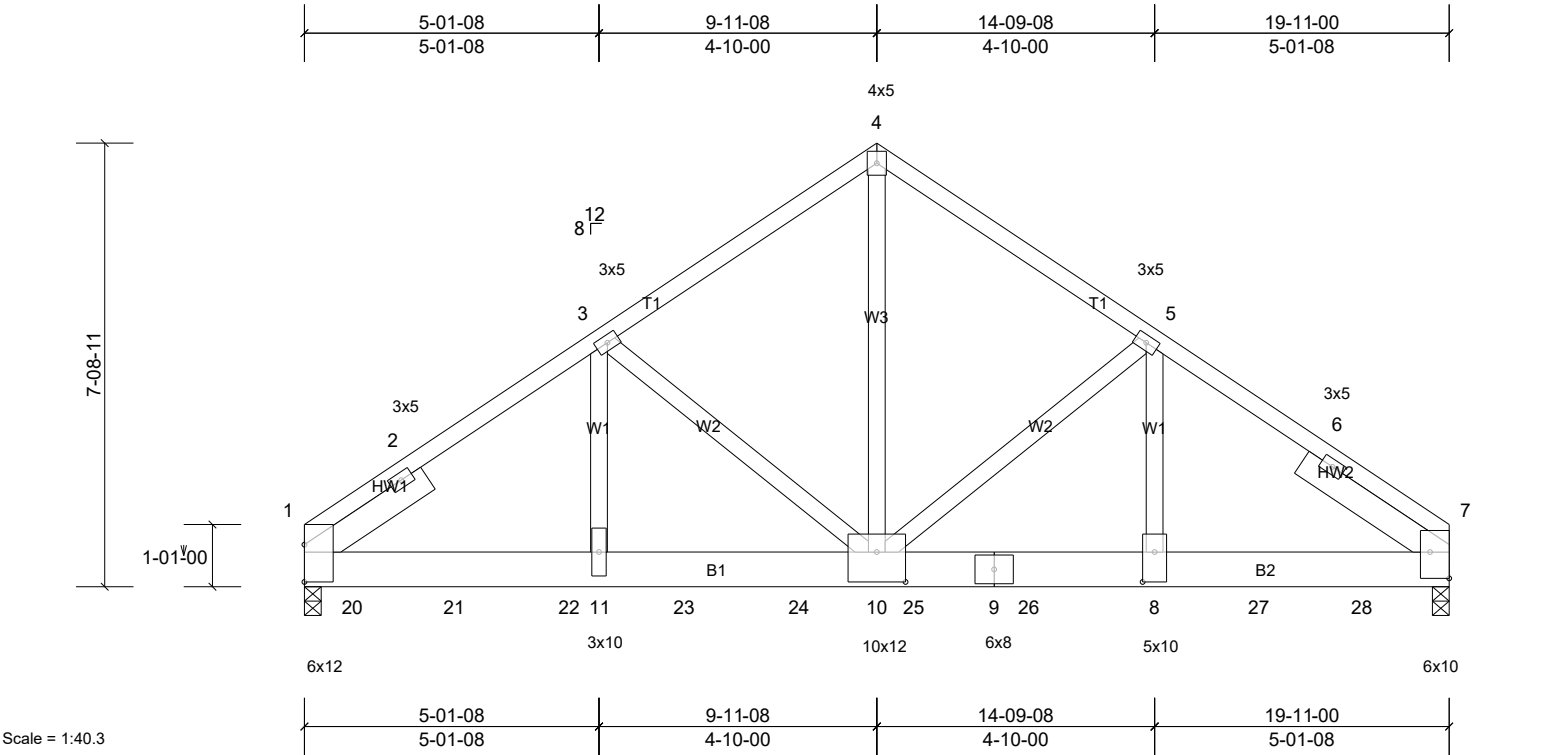
LOAD CASE(S) Standard

Job 25020278-B	Truss D03	Truss Type Common Girder	Qty 1	Ply 3	SPENCER-Roof Job Reference (optional)
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Carter Components, jon.rife

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.10	10-11	>999	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 446 lb	FT = 20%

LUMBER		BRACING		
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-4-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.	
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD		
WEBS	2x4 SP No.2			
SLIDER	Left 2x6 SP No.2 -- 2-06-00, Right 2x6 SP No.2 -- 3-00-00			
REACTIONS	(lb/size)	1=8395/3-08, (min. 2-08), 7=7903/3-08, (min. 2-05)		
	Max Horiz	1=222 (LC 31)		
	Max Uplift	1=-2224 (LC 9), 7=-2094 (LC 10)		
	Max Grav	1=9017 (LC 4), 7=8478 (LC 4)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
	TOP CHORD	4-5=-7619/1978, 5-6=-10074/2520, 6-7=-6633/1595, 1-2=-6825/1594, 2-3=-10064/2514, 3-4=-7620/1978		
	BOT CHORD	1-20=-2112/8246, 20-21=-2112/8246, 21-22=-2112/8246, 11-22=-2112/8246, 11-23=-2112/8246, 23-24=-2112/8246, 10-24=-2112/8246, 10-25=-1978/8254, 9-25=-1978/8254, 9-26=-1978/8254, 8-26=-1978/8254, 8-27=-1978/8254, 27-28=-1978/8254, 7-28=-1978/8254		
	WEBS	4-10=-2005/8040, 3-10=-2494/806, 3-11=-694/2932, 5-10=-2505/811, 5-8=-703/2969		

- NOTES**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 5-00 oc.
Web connected as follows: 2x4 - 1 row at 4-00 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 7-16; 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=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2094 lb uplift at joint 7 and 2224 lb uplift at joint 1.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1609 lb down and 392 lb up at 0-10-0, 1608 lb down and 393 lb up at 2-7-4, 1608 lb down and 393 lb up at 4-7-4, 1608 lb down and 393 lb up at 6-7-4, 1608 lb down and 393 lb up at 8-7-4, 1608 lb down and 393 lb up at 10-7-4, 1608 lb down and 393 lb up at 12-7-4, 1608 lb down and 393 lb up at 14-7-4, and 1608 lb down and 393 lb up at 16-7-4, and 1608 lb down and 393 lb up at 18-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	SPENCER-Roof
25020278-B	D03	Common Girder	1	3	Job Reference (optional)

Uniform Loads (lb/ft)

Vert: 4-7=-62, 1-4=-62, 12-16=-20

Concentrated Loads (lb)

Vert: 8=-1467, 20=-1469, 21=-1467, 22=-1467, 23=-1467, 24=-1467, 25=-1467, 26=-1467, 27=-1467, 28=-1467

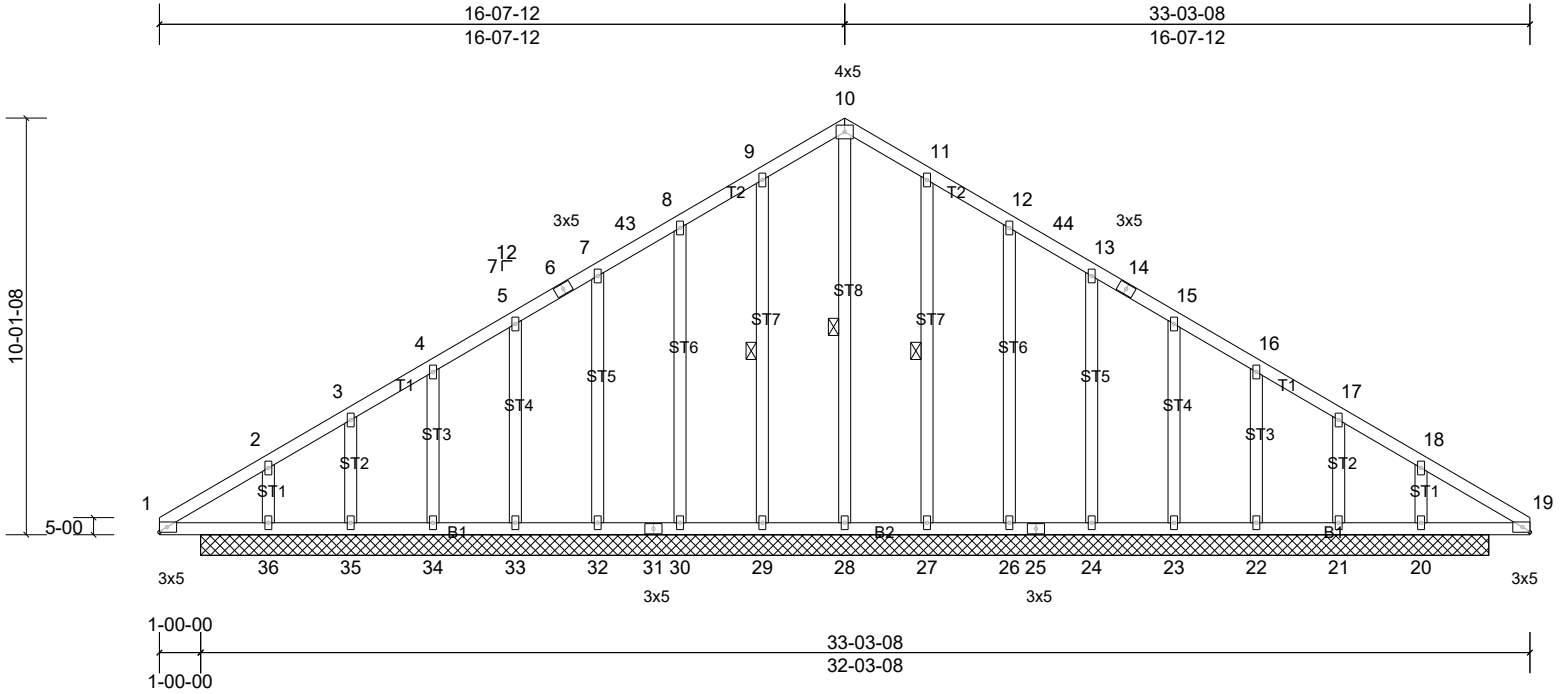
Job 25020278-B	Truss E01	Truss Type Common Supported Gable	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Carter Components, jon.rife

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Scale = 1:56.2

Loading	(psf)	Spacing	2-00-00	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
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	-0.01	20	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 224 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 10-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.
1 Row at midpt 10-28, 9-29, 11-27

REACTIONS

All bearings 31-03-08.
(lb) - Max Horiz 36=-324 (LC 11)
Max Uplift 100 (lb) or less at joint(s) 22, 23, 24, 26, 27, 29, 30, 32, 33, 34 except 20=-153 (LC 15), 21=-199 (LC 16), 35=-210 (LC 15), 36=-167 (LC 16)
Max Grav All reactions 250 (lb) or less at joint(s) 22, 23, 24, 26, 30, 32, 33, 34 except 20=336 (LC 26), 21=252 (LC 14), 27=263 (LC 22), 28=355 (LC 29), 29=263 (LC 21), 35=268 (LC 13), 36=351 (LC 27)

FORCES

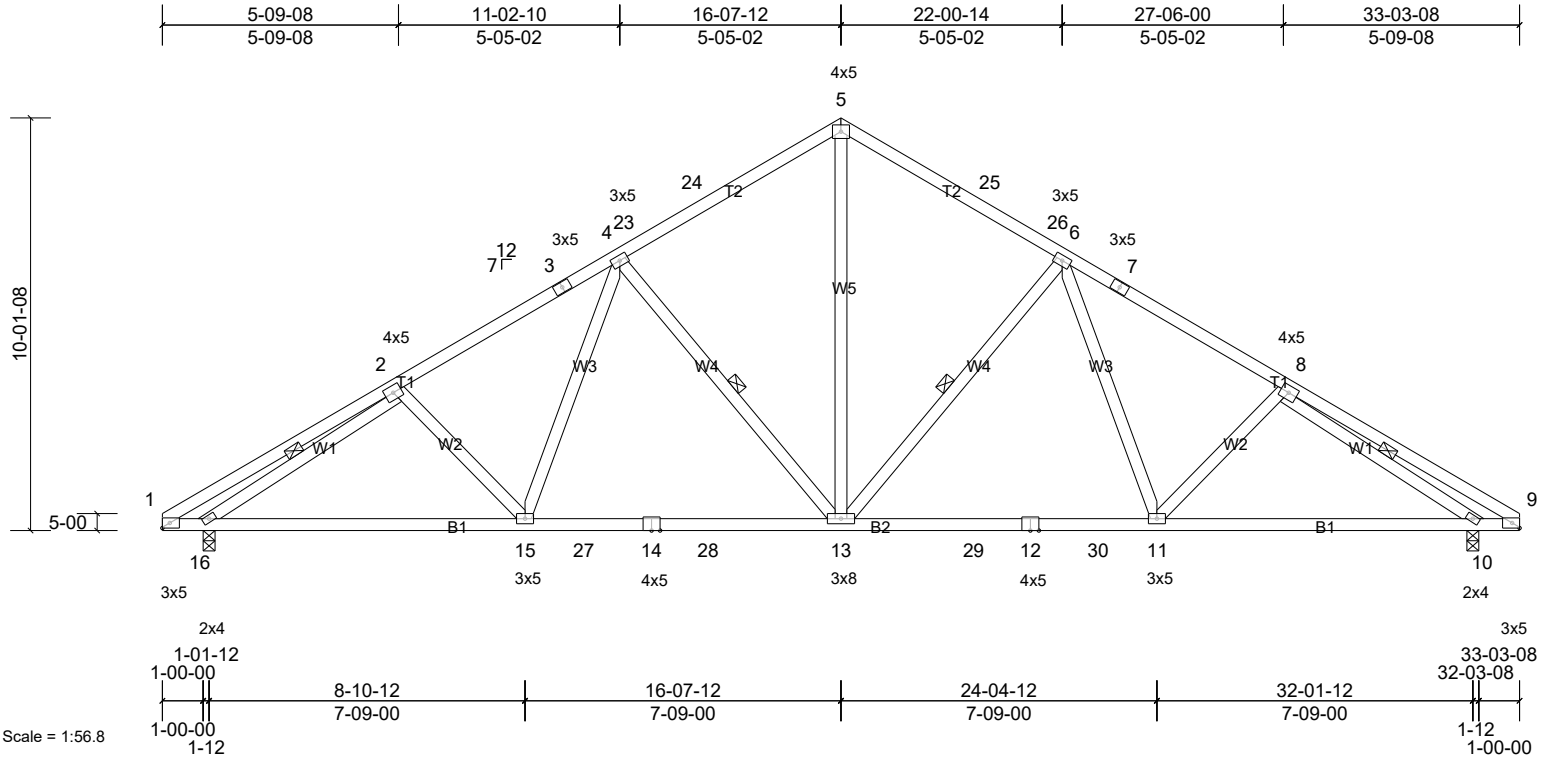
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-151/278, 2-3=-156/274, 6-7=-36/259, 7-43=-86/287, 8-43=-68/294, 8-9=-125/364, 9-10=-162/422, 10-11=-162/422, 11-12=-125/364, 12-44=-68/293, 13-44=-86/287, 13-14=-36/252, 17-18=-139/261, 18-19=-142/268
WEBS 10-28=-329/56

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-4-1, Exterior(2N) 3-4-1 to 16-7-12, Corner(3R) 16-7-12 to 19-11-13, Exterior(2N) 19-11-13 to 33-3-8 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=1.33
- 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.
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 30, 32, 33, 34, 27, 26, 24, 23, 22 except (jt=lb) 35=210, 36=167, 21=199, 20=153.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss E02	Truss Type Common	Qty 2	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.16	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.27	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 196 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD
WEBS
Structural wood sheathing directly applied or 3-6-9 oc purlins.
Rigid ceiling directly applied or 8-0-0 oc bracing.
1 Row at midpt 6-13, 4-13, 2-16, 8-10

REACTIONS (lb/size) 10=1358/3-08, (min. 1-13), 16=1358/3-08, (min. 1-13)
Max Horiz 16=-324 (LC 11)
Max Uplift 10=-346 (LC 16), 16=-346 (LC 15)
Max Grav 10=1561 (LC 27), 16=1561 (LC 26)

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

- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD** 1-2=-670/122, 2-3=-2414/470, 3-4=-2286/487, 4-23=-1825/422, 23-24=-1814/425, 5-24=-1748/455, 5-25=-1748/455, 25-26=-1814/425, 6-26=-1825/422, 6-7=-2286/488, 7-8=-2414/470, 8-9=-670/121
- BOT CHORD** 1-16=-53/475, 15-16=-533/2043, 15-27=-346/1777, 14-27=-346/1777, 14-28=-346/1777, 13-28=-346/1777, 13-29=-199/1777, 12-29=-199/1777, 12-30=-199/1777, 11-30=-199/1777, 10-11=-314/2043, 9-10=0/475
- WEBS** 5-13=-276/1405, 6-13=-701/350, 6-11=-75/444, 4-13=-701/350, 4-15=-74/444, 2-16=-1929/414, 8-10=-1929/414
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-4-1, Interior (1) 3-4-1 to 16-7-12, Exterior(2R) 16-7-12 to 19-11-13, Interior (1) 19-11-13 to 33-3-8 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=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 3x5 MT20 unless otherwise indicated.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 346 lb uplift at joint 16 and 346 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

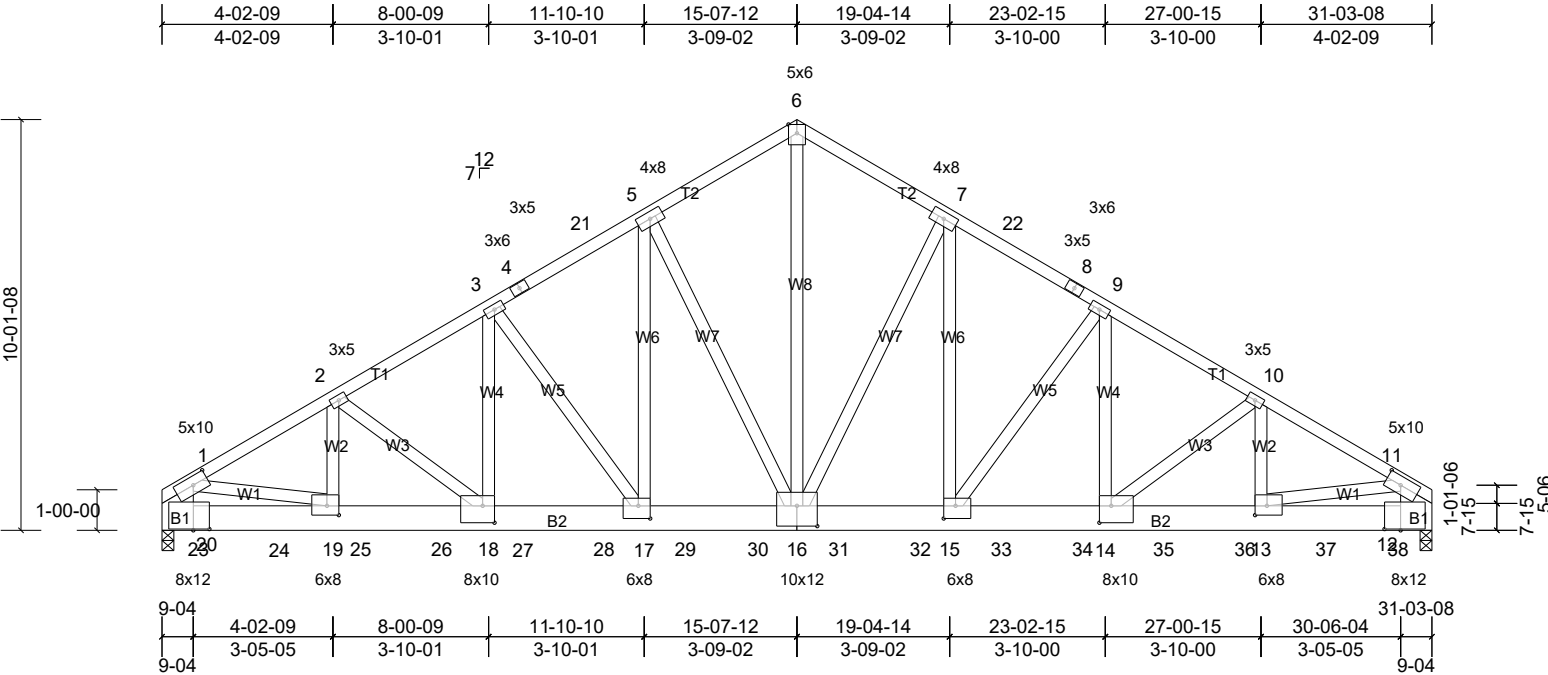
Job 25020278-B	Truss E03	Truss Type Common Girder	Qty 1	Ply 3	SPENCER-Roof Job Reference (optional)
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Carter Components, jon.rife

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Scale = 1:57

Plate Offsets (X, Y): [1:4-08,2-08], [11:4-08,2-08], [12:4-12,0-06], [13:3-08,2-12], [14:3-08,5-00], [15:3-08,3-12], [16:6-00,6-00], [17:3-08,3-12], [18:3-08,5-00], [19:3-08,2-12], [20:4-12,0-06]												
Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.21	17	>999	240	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.38	17	>956	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 827 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except* B1:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W8:2x4 SP No.1

BRACING
TOP CHORD Sheathed or 4-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 12=13070/3-08, (min. 1-08), 20=12870/3-08, (min. 1-08)
Max Horiz 20=-297 (LC 9)
Max Uplift 12=-3471 (LC 12), 20=-3405 (LC 11)
Max Grav 12=14038 (LC 6), 20=13792 (LC 5)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-17052/4217, 2-3=-17266/4311, 3-4=-15044/3775, 4-21=-14983/3785, 5-21=-14977/3796, 5-6=-12613/3264, 6-7=-12613/3264, 7-22=-14958/3794, 8-22=-14963/3782, 8-9=-15024/3773, 9-10=-17292/4323, 10-11=-17145/4247
BOT CHORD 20-23=-1223/4218, 23-24=-1223/4218, 19-24=-1223/4218, 19-25=-3771/14654, 25-26=-3771/14654, 18-26=-3771/14654, 18-27=-3742/14896, 27-28=-3742/14896, 17-28=-3742/14896, 17-29=-3177/12942, 29-30=-3177/12942, 16-30=-3177/12942, 16-31=-3078/12925, 31-32=-3078/12925, 15-32=-3078/12925, 15-33=-3565/14918, 33-34=-3565/14918, 14-34=-3565/14918, 14-35=-3596/14733, 35-36=-3596/14733, 13-36=-3596/14733, 13-37=-1056/4241, 37-38=-1056/4241, 12-38=-1056/4241, 1-20=-10788/2705, 11-12=-10836/2718
WEBS 1-19=-2596/10689, 11-13=-2588/10694, 2-19=-441/167, 2-18=-124/360, 3-18=-869/3544, 3-17=-3303/956, 5-17=-1305/5153, 5-16=-4645/1315, 6-16=-3146/12398, 7-16=-4607/1310, 7-15=-1299/5109, 9-15=-3370/977, 9-14=-892/3621, 10-14=-104/286, 10-13=-371/146
- NOTES**
1) 3-ply truss to be connected together with Simpson SDS 1/4 x 4-1/2 screws as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 6-00 oc, 2x10 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; 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=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
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) Bearing at joint(s) 20, 12 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 3405 lb uplift at joint 20 and 3471 lb uplift at joint 12.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

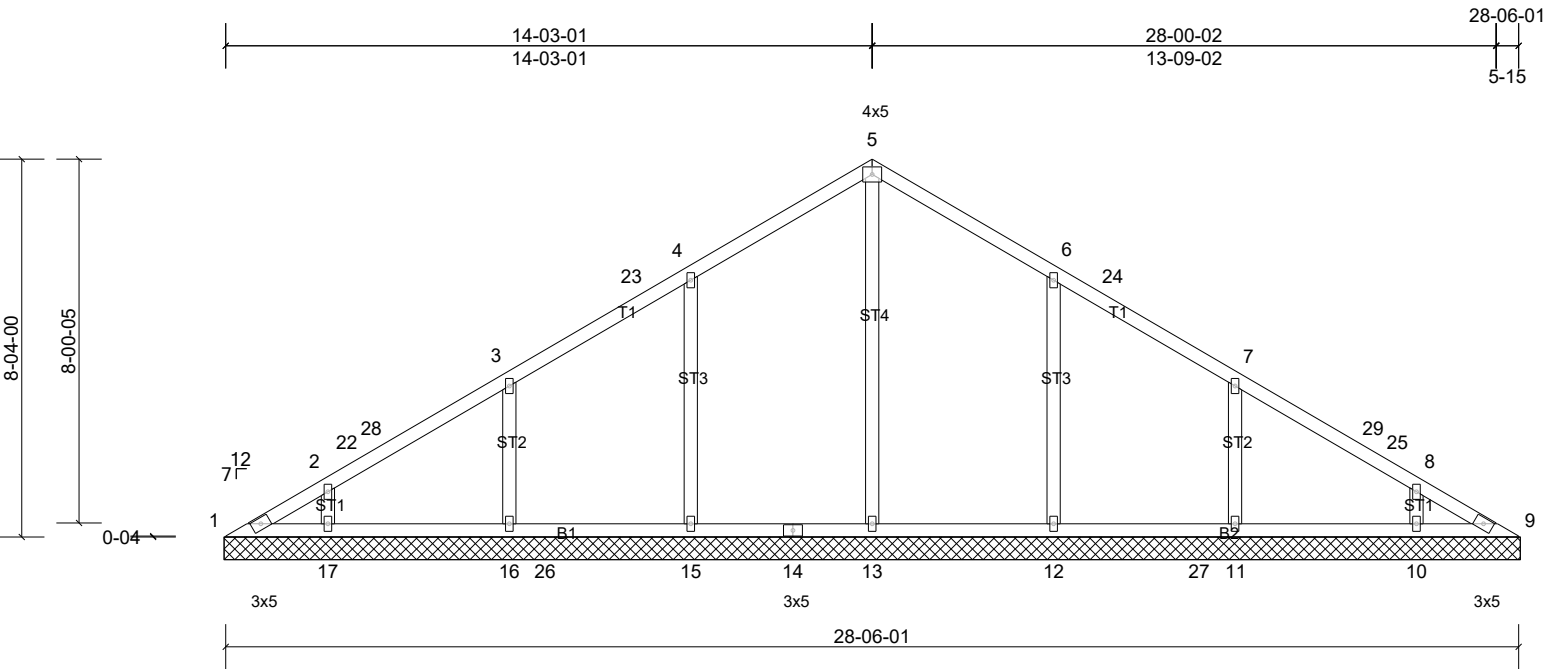
Job	Truss	Truss Type	Qty	Ply	SPENCER-Roof
25020278-B	E03	Common Girder	1	3	Job Reference (optional)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1597 lb down and 388 lb up at 0-10-12, 1596 lb down and 388 lb up at 2-10-12, 1596 lb down and 388 lb up at 4-10-12, 1596 lb down and 388 lb up at 6-10-12, 1596 lb down and 388 lb up at 8-10-12, 1596 lb down and 388 lb up at 10-10-12, 1608 lb down and 393 lb up at 12-10-12, 1608 lb down and 393 lb up at 14-8-4, 1608 lb down and 393 lb up at 16-8-4, 1608 lb down and 393 lb up at 18-8-4, 1608 lb down and 393 lb up at 20-8-4, 1608 lb down and 393 lb up at 22-8-4, 1608 lb down and 393 lb up at 24-8-4, 1608 lb down and 393 lb up at 26-8-4, and 1608 lb down and 393 lb up at 28-8-4, and 1609 lb down and 392 lb up at 30-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-6=-62, 6-11=-62, 12-20=-20
- Concentrated Loads (lb)
- Vert: 23=-1464, 24=-1463, 25=-1463, 26=-1463, 27=-1463, 28=-1463, 29=-1467, 30=-1467, 31=-1467, 32=-1467, 33=-1467, 34=-1467, 35=-1467, 36=-1467, 37=-1467, 38=-1469

Job 25020278-B	Truss V1	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:51

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 129 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

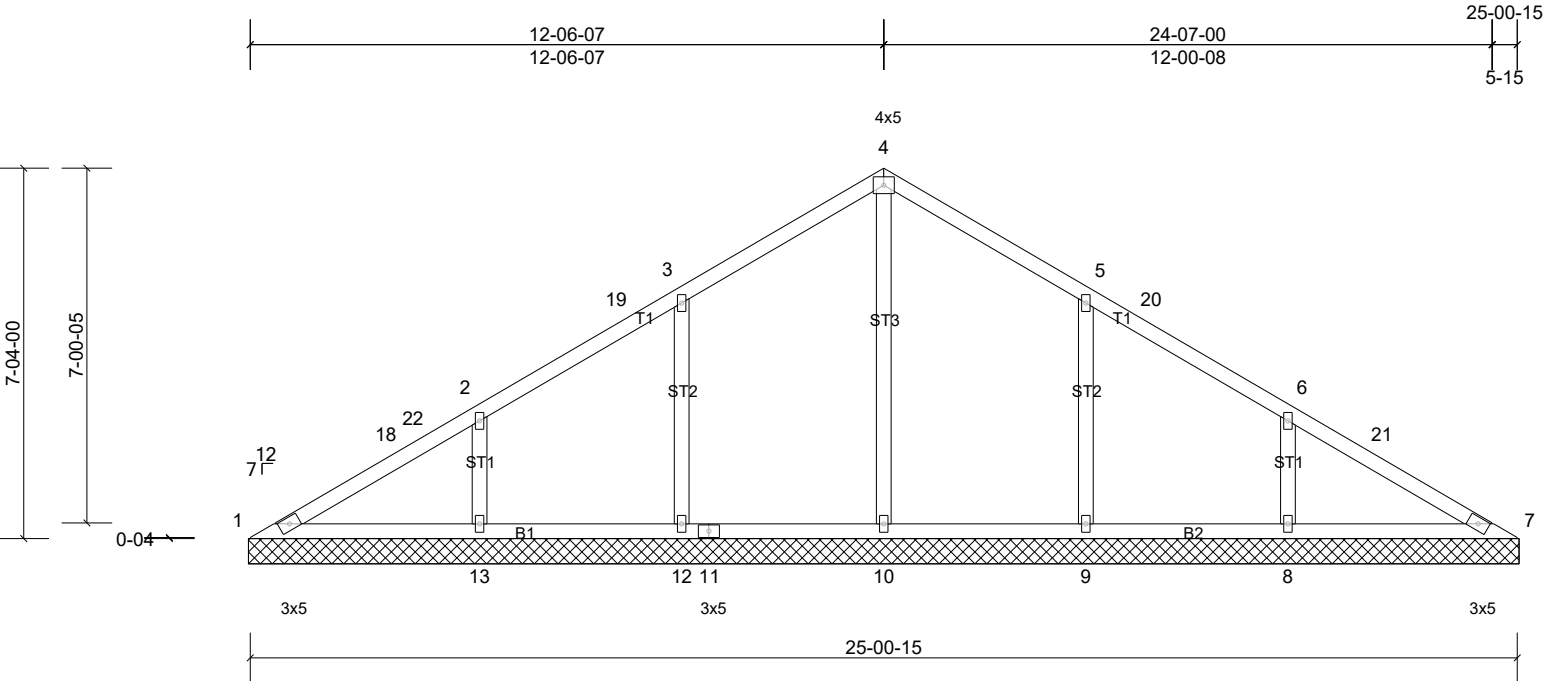
REACTIONS All bearings 28-06-15.
(lb) - Max Horiz 1=-273 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9 except 10=-132 (LC 16), 11=-189 (LC 16), 12=-198 (LC 16), 15=-199 (LC 15), 16=-188 (LC 15), 17=-136 (LC 15)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 9 except 10=354 (LC 27), 11=447 (LC 27), 12=520 (LC 6), 13=418 (LC 29), 15=520 (LC 5), 16=446 (LC 26), 17=358 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-252/219, 4-5=-191/266, 5-6=-191/262
WEBS 4-15=-396/246, 3-16=-323/235, 2-17=-279/195, 6-12=-396/246, 7-11=-323/236, 8-10=-279/193

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 14-3-7, Corner(3R) 14-3-7 to 17-3-7, Exterior(2N) 17-3-7 to 28-6-15 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=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 15=198, 16=188, 17=136, 12=198, 11=189, 10=131.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V2	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:45.8

Loading	(psf)	Spacing	2-00-00	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
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horiz(TL)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 108 lb FT = 20%	

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

BRACING
TOP CHORD
BOT CHORD

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

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

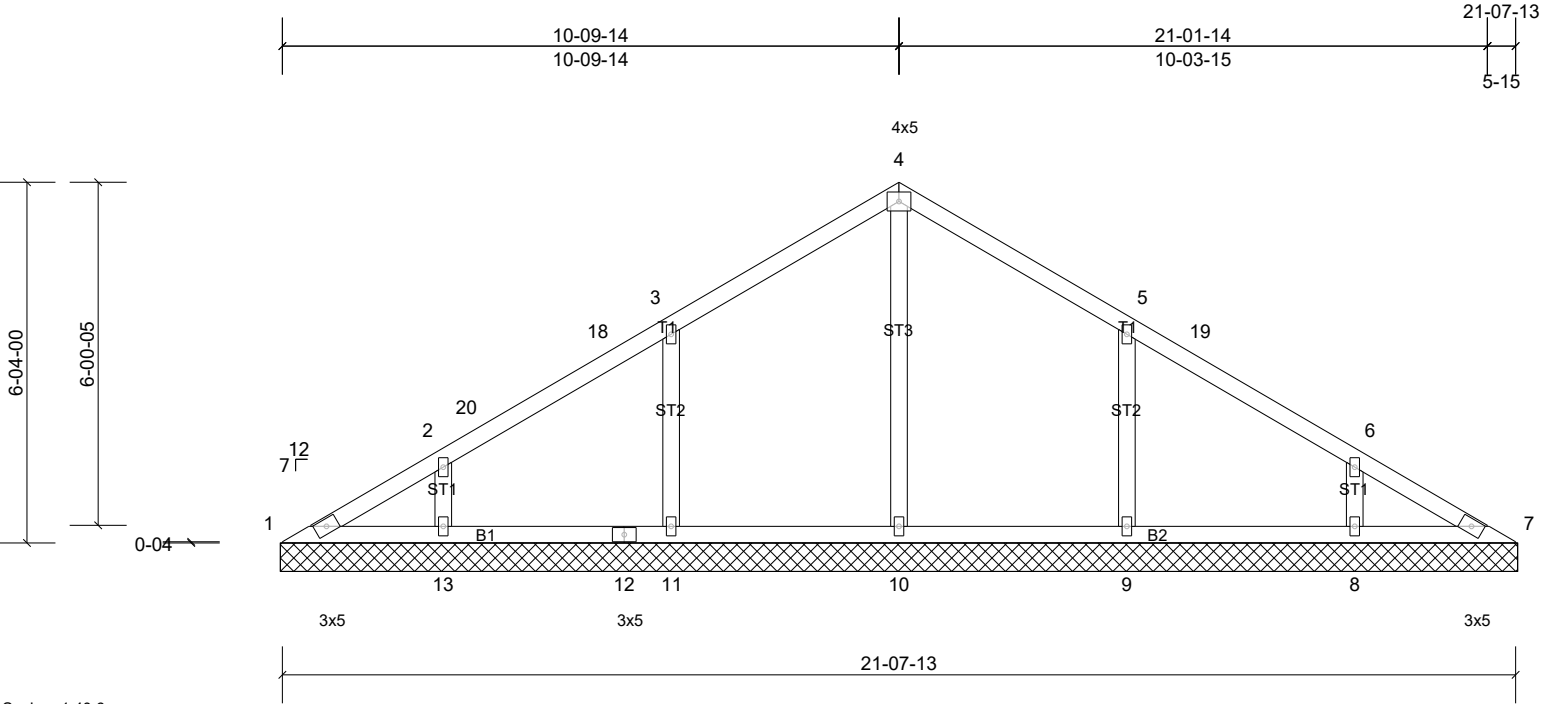
REACTIONS All bearings 25-01-13.
(lb) - Max Horiz 1=-239 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 8=-204 (LC 16), 9=-194 (LC 16), 12=-194 (LC 15), 13=-206 (LC 15)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=493 (LC 27), 9=468 (LC 6), 10=538 (LC 26), 12=468 (LC 5), 13=495 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-181/286
WEBS 4-10=-323/0, 3-12=-390/247, 2-13=-349/232, 5-9=-390/247, 6-8=-349/231

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 12-6-14, Corner(3R) 12-6-14 to 15-6-14, Exterior(2N) 15-6-14 to 25-1-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=193, 13=205, 9=193, 8=203.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V3	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	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
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 90 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

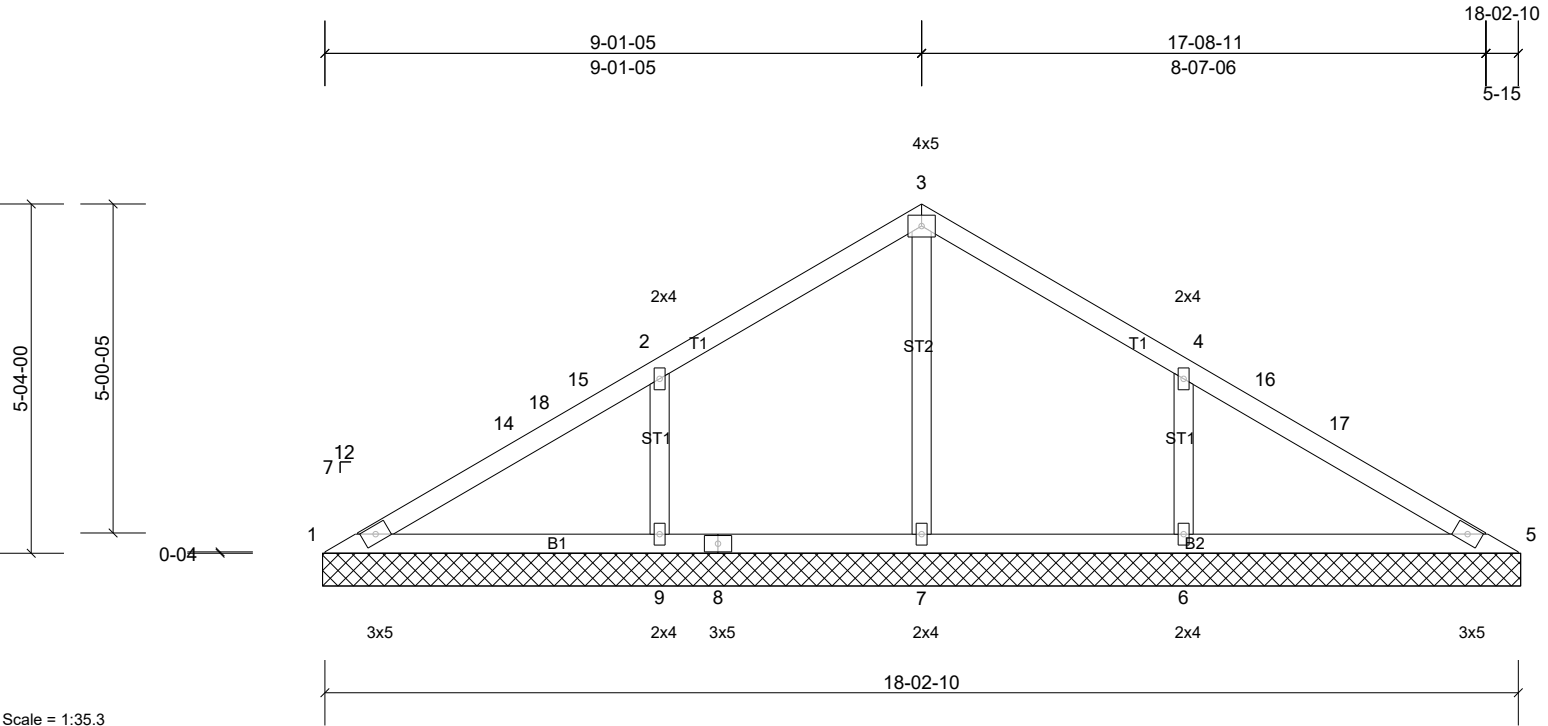
REACTIONS All bearings 21-08-10.
(lb) - Max Horiz 1=206 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 8=-150 (LC 16), 9=-207 (LC 16), 11=-207 (LC 15), 13=-152 (LC 15)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=377 (LC 27), 9=496 (LC 6), 10=418 (LC 26), 11=496 (LC 5), 13=379 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-404/257, 2-13=-281/209, 5-9=-404/256, 6-8=-281/209

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 2-10-5, Exterior(2N) 2-10-5 to 10-10-5, Corner(3R) 10-10-5 to 13-10-5, Exterior(2N) 13-10-5 to 21-8-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=207, 13=152, 9=207, 8=149.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V4	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:35.3

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 71 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

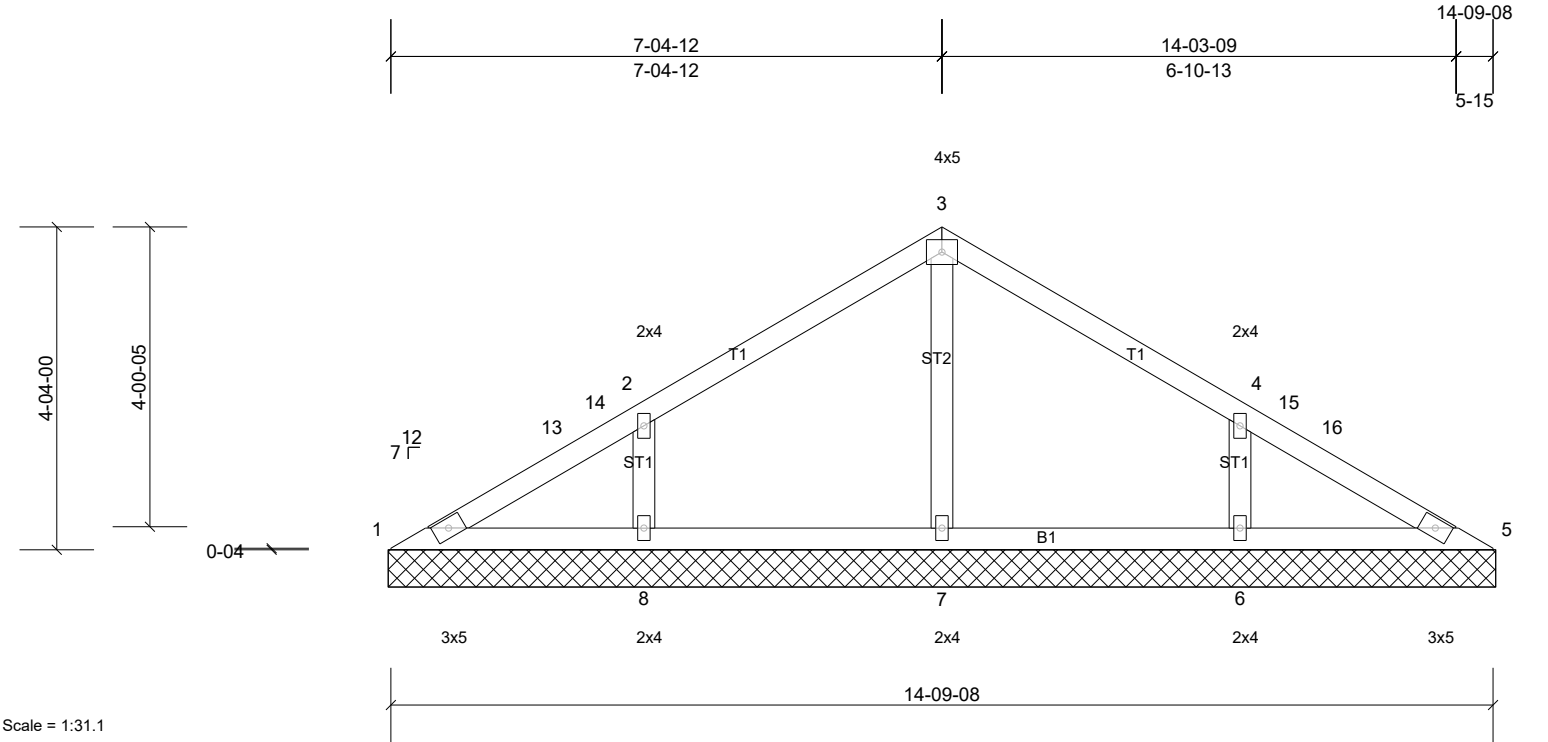
REACTIONS All bearings 18-03-08.
(lb) - Max Horiz 1=-172 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-247 (LC 16), 9=-249 (LC 15)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=576 (LC 22), 7=438 (LC 1), 9=576 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-156/256, 14-18=-144/268, 15-18=-141/282, 2-15=-134/323, 4-16=-127/305
WEBS 3-7=-404/110, 2-9=-445/313, 4-6=-445/313

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 9-1-12, Corner(3R) 9-1-12 to 12-1-12, Exterior(2N) 12-1-12 to 18-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (it=lb) 9=248, 6=247.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V5	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 56 lb	FT = 20%
BCDL	10.0											

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

BRACING
TOP CHORD
BOT CHORD

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

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

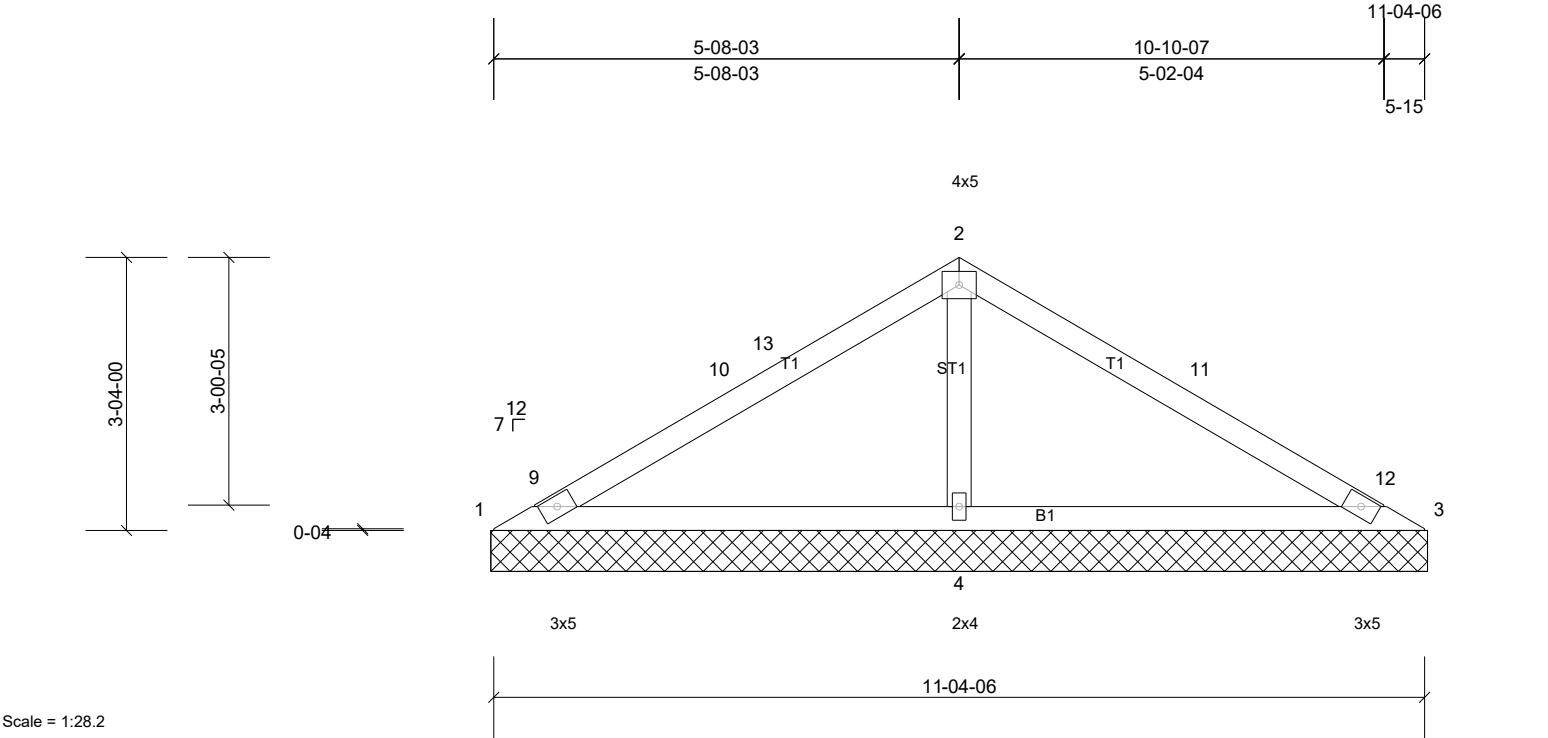
REACTIONS All bearings 14-10-06.
(lb) - Max Horiz 1=-139 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-196 (LC 16), 8=-198 (LC 15)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=488 (LC 22), 7=338 (LC 22), 8=488 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-266/85, 2-8=-400/301, 4-6=-400/301

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 7-5-3, Corner(3R) 7-5-3 to 10-5-3, Exterior(2N) 10-5-3 to 14-10-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=197, 6=196.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V6	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 39 lb	FT = 20%
BCDL	10.0											

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 9-4-6 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

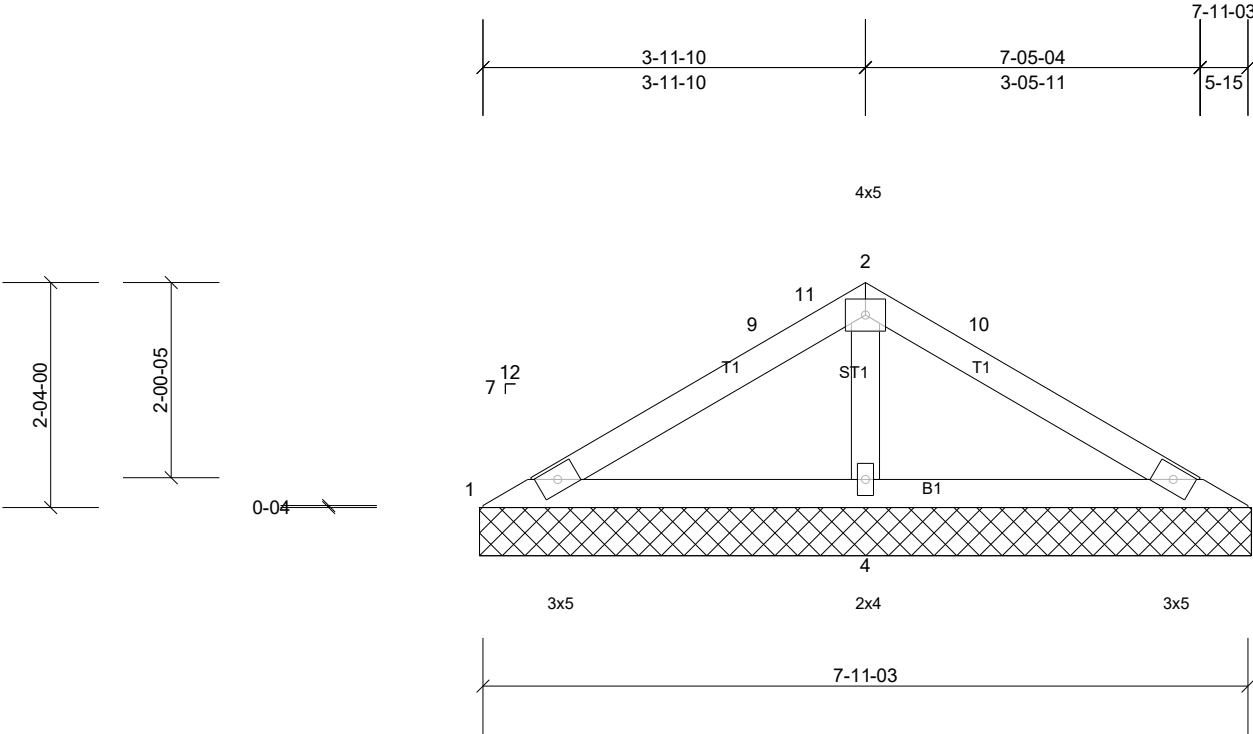
REACTIONS (lb/size) 1=14/11-05-03, (min. 1-08), 3=14/11-05-03, (min. 1-08), 4=905/11-05-03, (min. 1-08)
Max Horiz 1=106 (LC 14)
Max Uplift 1=-80 (LC 22), 3=-80 (LC 21), 4=-243 (LC 15)
Max Grav 1=89 (LC 21), 3=90 (LC 22), 4=953 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-323/485, 10-13=-310/490, 2-13=-308/555, 2-11=-305/555, 3-11=-319/485
BOT CHORD 1-4=-468/403, 3-4=-468/403
WEBS 2-4=-880/594

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 5-8-10, Corner(3R) 5-8-10 to 8-8-10, Exterior(2N) 8-8-10 to 11-5-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 1, 80 lb uplift at joint 3 and 243 lb uplift at joint 4.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V7	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:24

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%
BCDL	10.0											

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

REACTIONS (lb/size)	1=43/8-00-01, (min. 1-08), 3=43/8-00-01, (min. 1-08), 4=567/8-00-01, (min. 1-08)
Max Horiz	1=-72 (LC 11)
Max Uplift	1=-20 (LC 22), 3=-23 (LC 11), 4=-147 (LC 15)
Max Grav	1=109 (LC 21), 3=109 (LC 22), 4=589 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-9=-222/293, 9-11=-210/303, 2-11=-207/321, 2-10=-202/321, 3-10=-214/293
BOT CHORD	1-4=-294/307, 3-4=-294/307
WEBS	2-4=-518/399

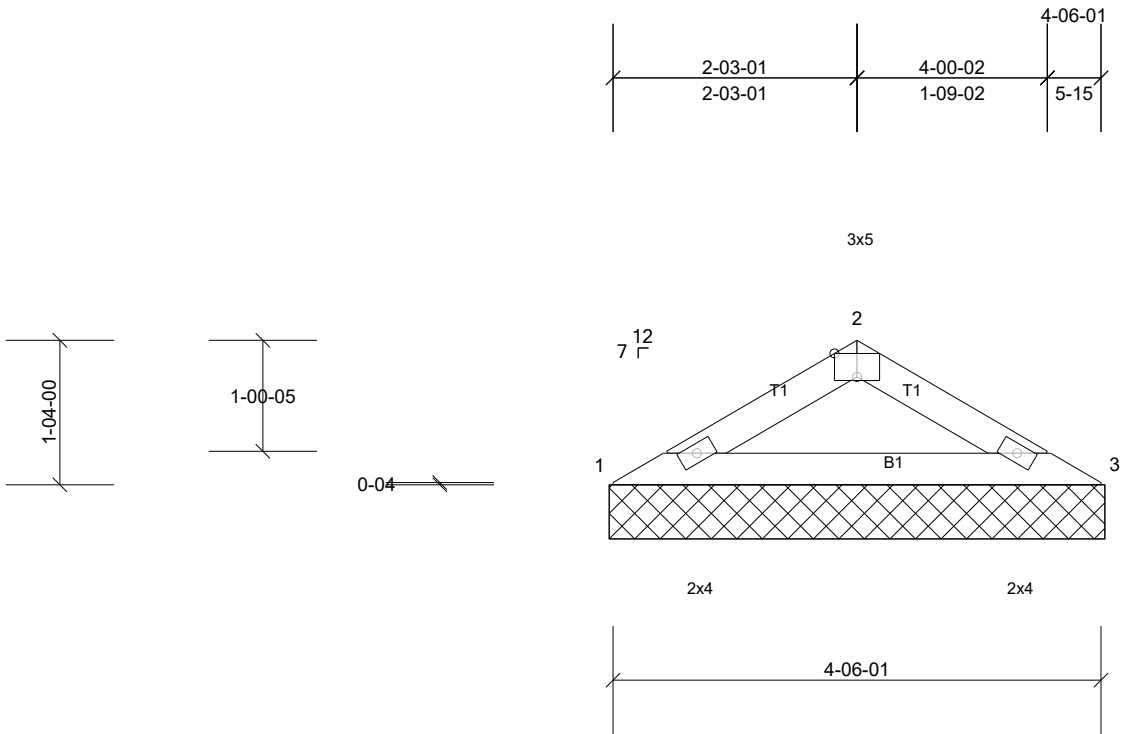
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 4-0-1, Corner(3R) 4-0-1 to 6-11-2, Exterior(2N) 6-11-2 to 8-0-1 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=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1, 23 lb uplift at joint 3 and 147 lb uplift at joint 4.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Structural wood sheathing directly applied or 7-11-3 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

Job 25020278-B	Truss V8	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:21.4

Plate Offsets (X, Y): [2:2-08,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-6-1 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

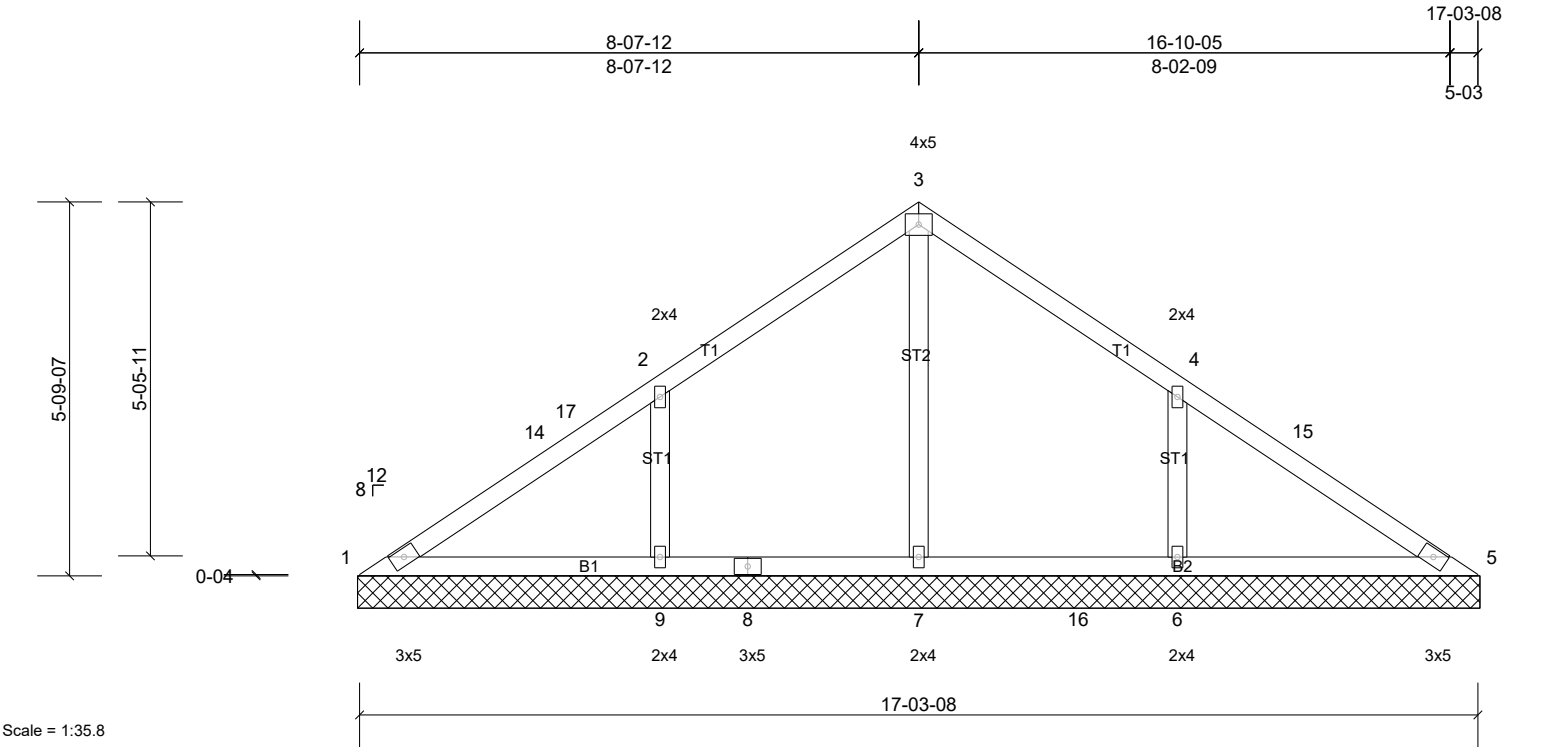
REACTIONS (lb/size) 1=187/4-06-15, (min. 1-08), 3=187/4-06-15, (min. 1-08)
Max Horiz 1=39 (LC 14)
Max Uplift 1=48 (LC 15), 3=48 (LC 16)
Max Grav 1=216 (LC 21), 3=216 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-397/332
BOT CHORD 1-3=-265/332

- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.;
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 48 lb uplift at joint 3.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V9	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 70 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 10-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

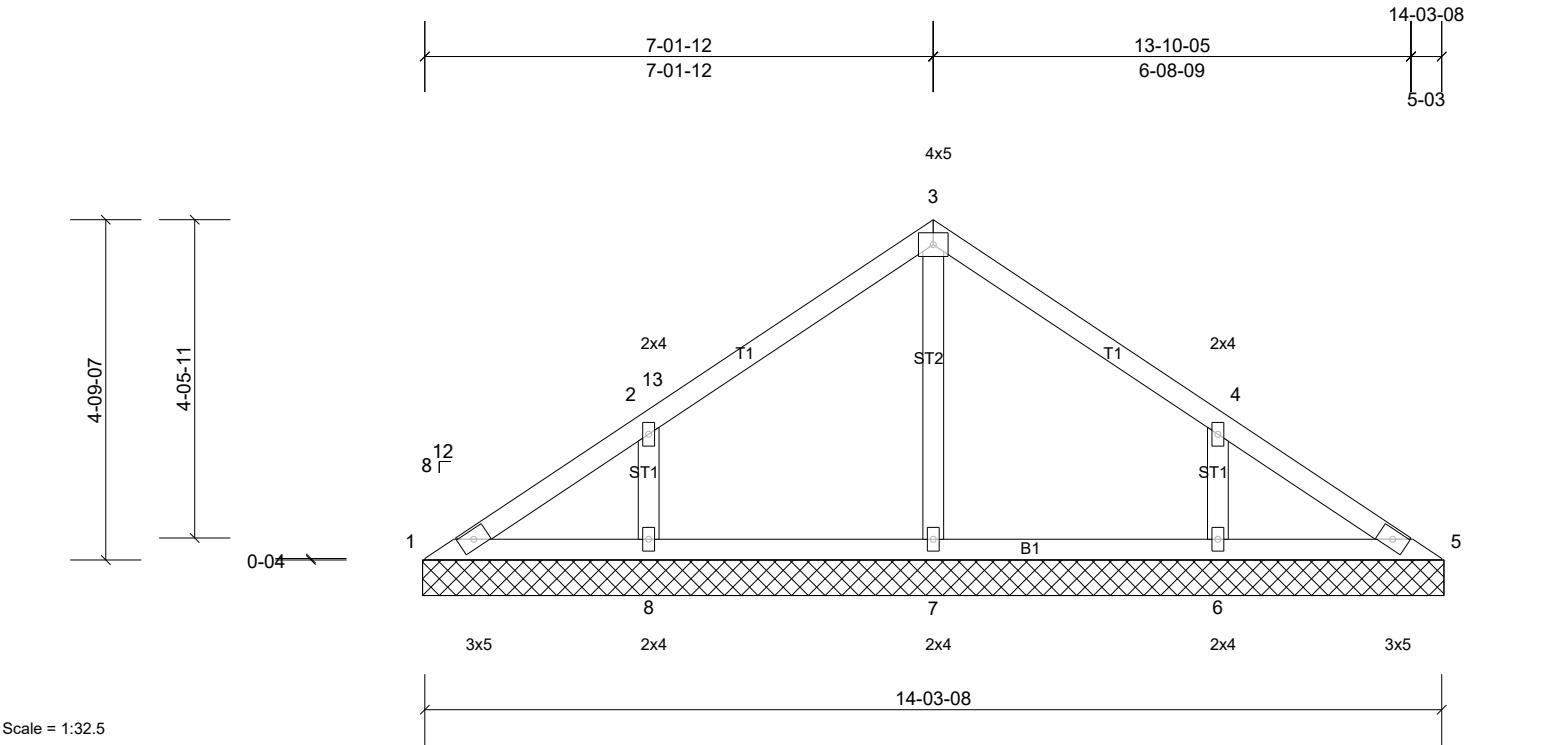
REACTIONS All bearings 17-04-04.
(lb) - Max Horiz 1=187 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=257 (LC 14), 9=260 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=546 (LC 23), 7=531 (LC 22), 9=551 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-17=-149/258, 2-17=-140/305, 4-15=-121/269
WEBS 3-7=-377/79, 2-9=-388/336, 4-6=-388/336

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-8-2, Corner(3R) 8-8-2 to 11-8-2, Exterior(2N) 11-8-2 to 17-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (it=lb) 9=259, 6=257.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V10	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	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	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 56 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

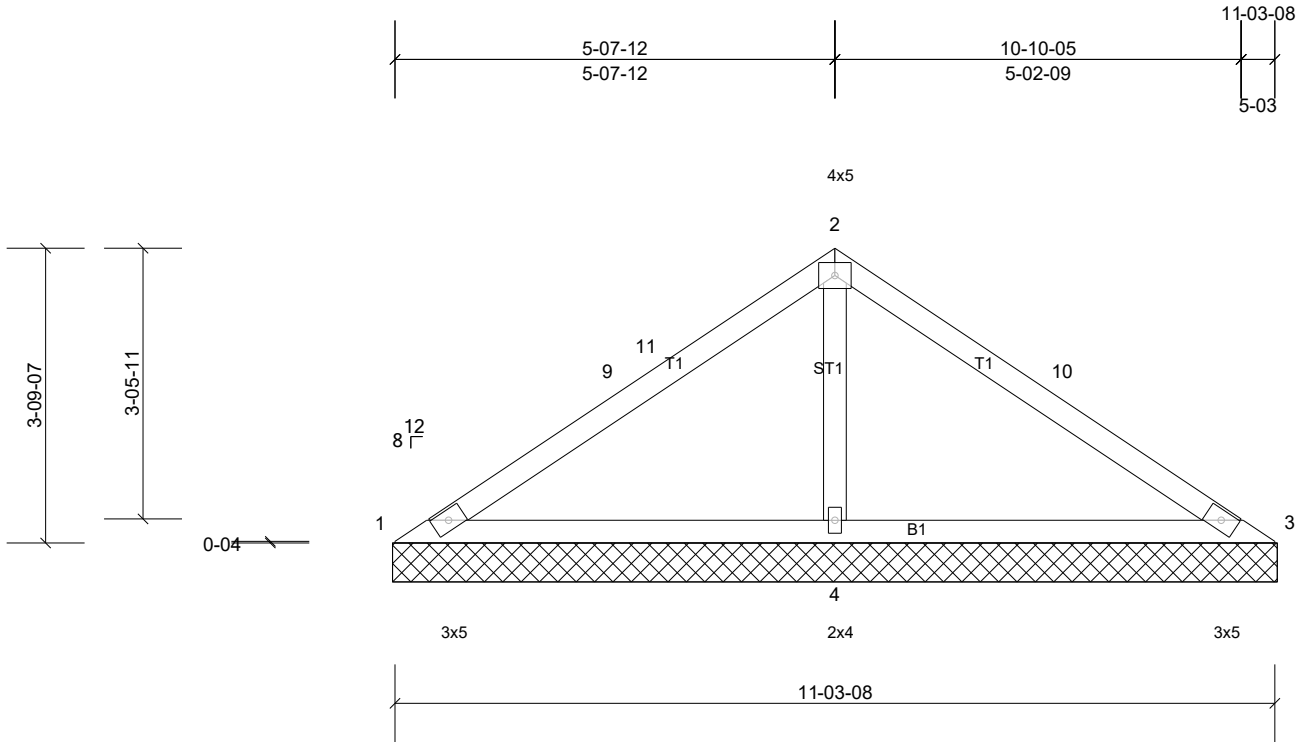
REACTIONS All bearings 14-04-04.
(lb) - Max Horiz 1=-154 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-210 (LC 14), 8=-213 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=381 (LC 23), 7=314 (LC 1), 8=383 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-339/333, 4-6=-339/333

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-2-2, Exterior(2N) 3-2-2 to 7-2-2, Corner(3R) 7-2-2 to 10-2-2, Exterior(2N) 10-2-2 to 14-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=212, 6=210.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V11	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 40 lb	FT = 20%
BCDL	10.0											

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

REACTIONS (lb/size) 1=5/11-04-04, (min. 1-08), 3=5/11-04-04, (min. 1-08), 4=917/11-04-04, (min. 1-08)
Max Horiz 1=-120 (LC 9)
Max Uplift 1=-53 (LC 35), 3=-53 (LC 34), 4=-269 (LC 13)
Max Grav 1=60 (LC 34), 3=60 (LC 35), 4=917 (LC 1)

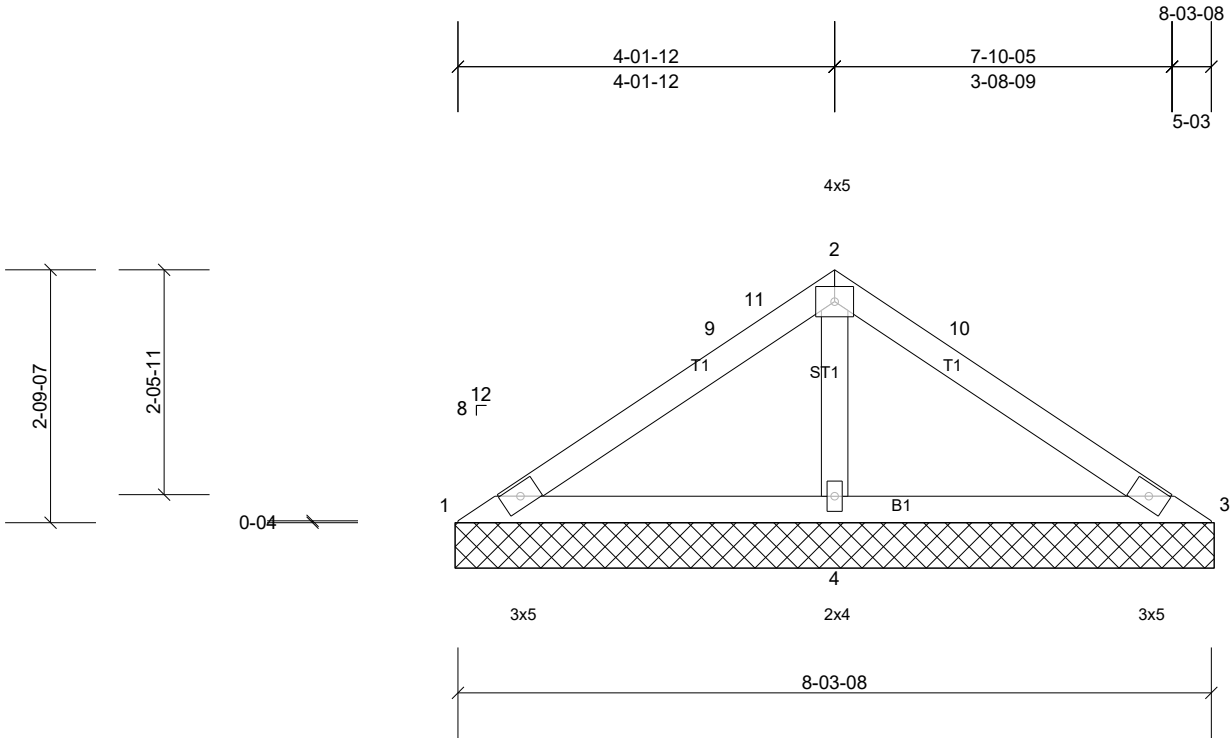
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-334/464, 9-11=-320/469, 2-11=-318/540, 2-10=-314/540, 3-10=-329/464
BOT CHORD 1-4=-441/421, 3-4=-441/421
WEBS 2-4=-907/638

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 5-8-2, Corner(3R) 5-8-2 to 8-8-2, Exterior(2N) 8-8-2 to 11-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 53 lb uplift at joint 3 and 269 lb uplift at joint 4.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Structural wood sheathing directly applied or 9-0-9 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job 25020278-B	Truss V12	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:25.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							Weight: 29 lb	FT = 20%
BCDL	10.0											

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 8-3-8 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

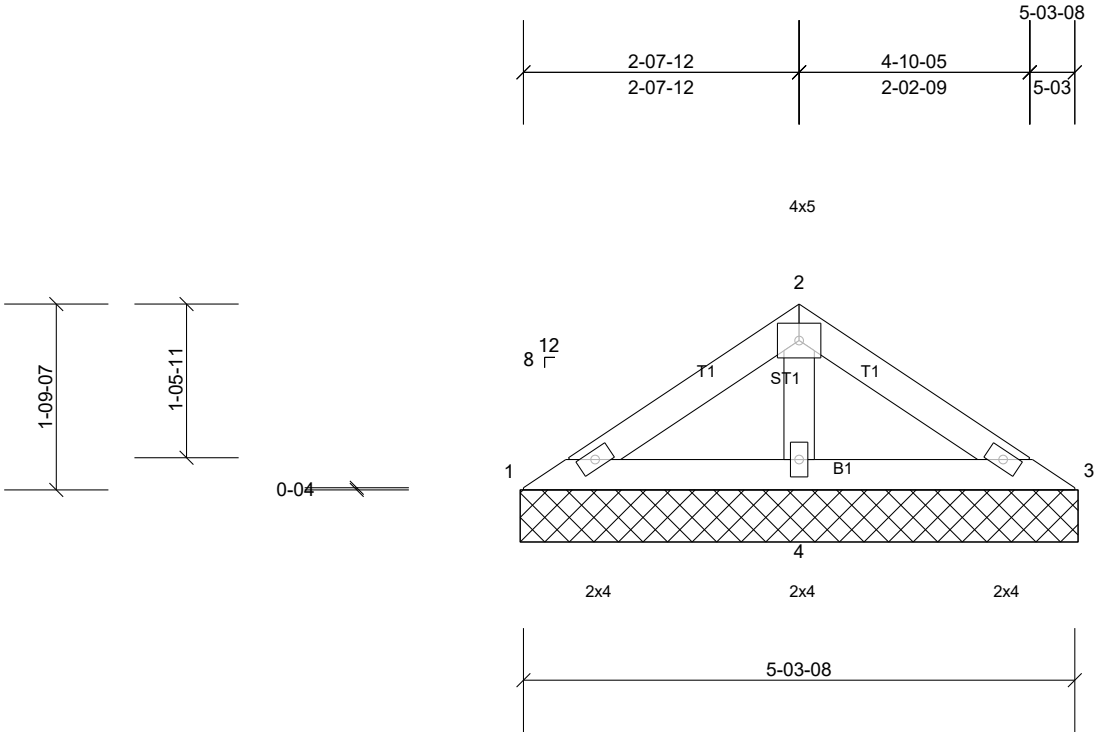
REACTIONS (lb/size)	1=32/8-04-04, (min. 1-08), 3=32/8-04-04, (min. 1-08), 4=618/8-04-04, (min. 1-08)
Max Horiz	1=-87 (LC 9)
Max Uplift	1=-18 (LC 35), 3=-22 (LC 9), 4=-176 (LC 13)
Max Grav	1=66 (LC 34), 3=66 (LC 35), 4=618 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-9=-251/312, 9-11=-237/320, 2-11=-234/344, 2-10=-228/344, 3-10=-242/312
BOT CHORD	1-4=-307/344, 3-4=-307/344
WEBS	2-4=-583/460

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 4-2-2, Corner(3R) 4-2-2 to 7-4-11, Exterior(2N) 7-4-11 to 8-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 22 lb uplift at joint 3 and 176 lb uplift at joint 4.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)	Standard
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Job 25020278-B	Truss V13	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:22.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 17 lb	FT = 20%

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

REACTIONS (lb/size) 1=52/5-04-04, (min. 1-08), 3=52/5-04-04, (min. 1-08), 4=333/5-04-04, (min. 1-08)
Max Horiz 1=-54 (LC 9)
Max Uplift 1=-13 (LC 13), 3=-22 (LC 14), 4=-83 (LC 13)
Max Grav 1=65 (LC 34), 3=65 (LC 35), 4=333 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-274/255

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.;
- Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 22 lb uplift at joint 3 and 83 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

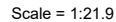
LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-3-8 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

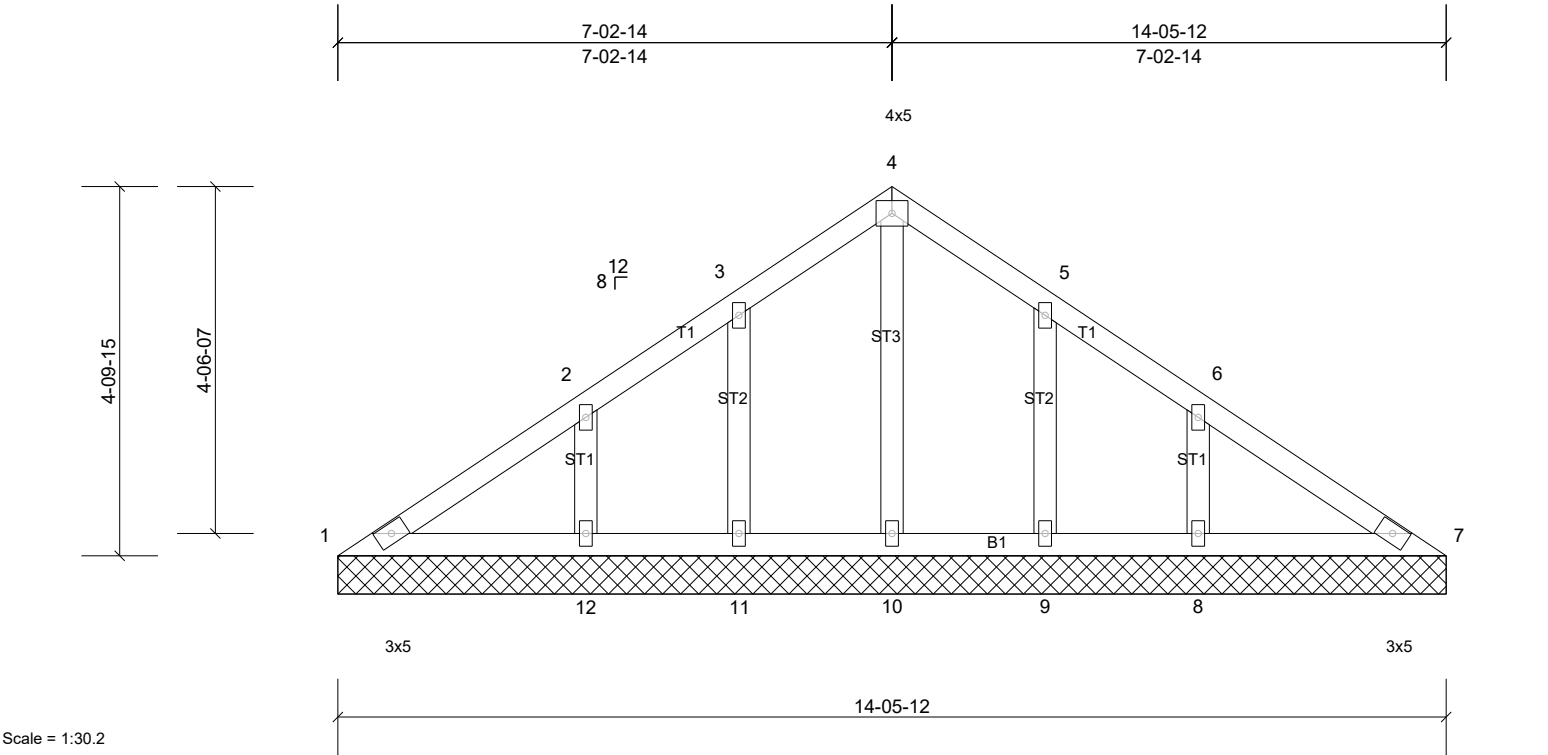
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MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S) Standard

Job 25020278-B	Truss V15G	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	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	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 66 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

REACTIONS All bearings 14-05-12.
(lb) - Max Horiz 1=155 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9, 11 except 8=145 (LC 14), 12=147 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7, 9, 10, 11 except 8=284 (LC 23), 12=286 (LC 22)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(3E) 0-0-0 to 3-2-14, Exterior(2N) 3-2-14 to 7-2-14, Corner(3R) 7-2-14 to 10-2-14, Exterior(2N) 10-2-14 to 14-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 9 except (jt=lb) 12=147, 8=145.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V16G	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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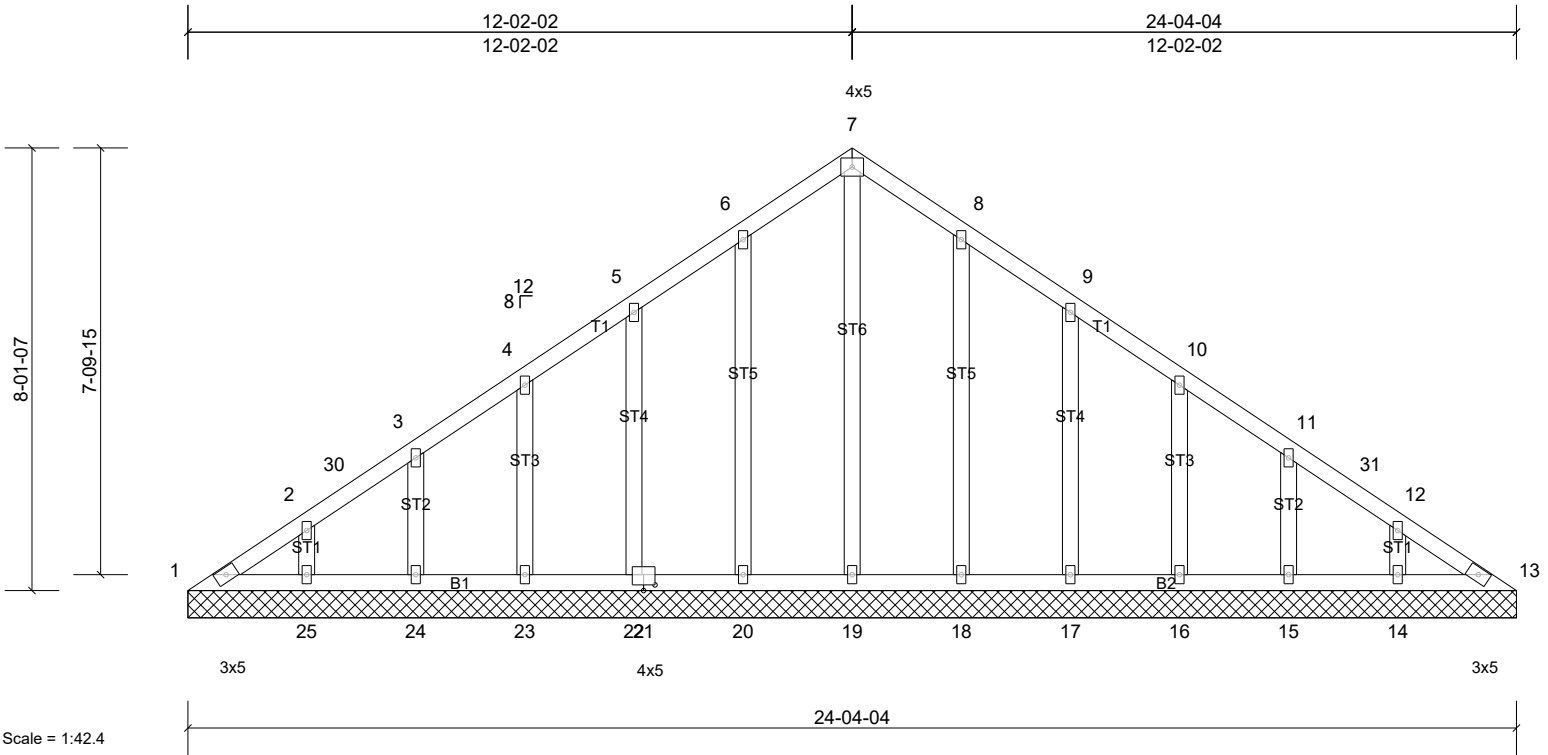


Plate Offsets (X, Y): [21:2-08,1-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.01	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 142 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

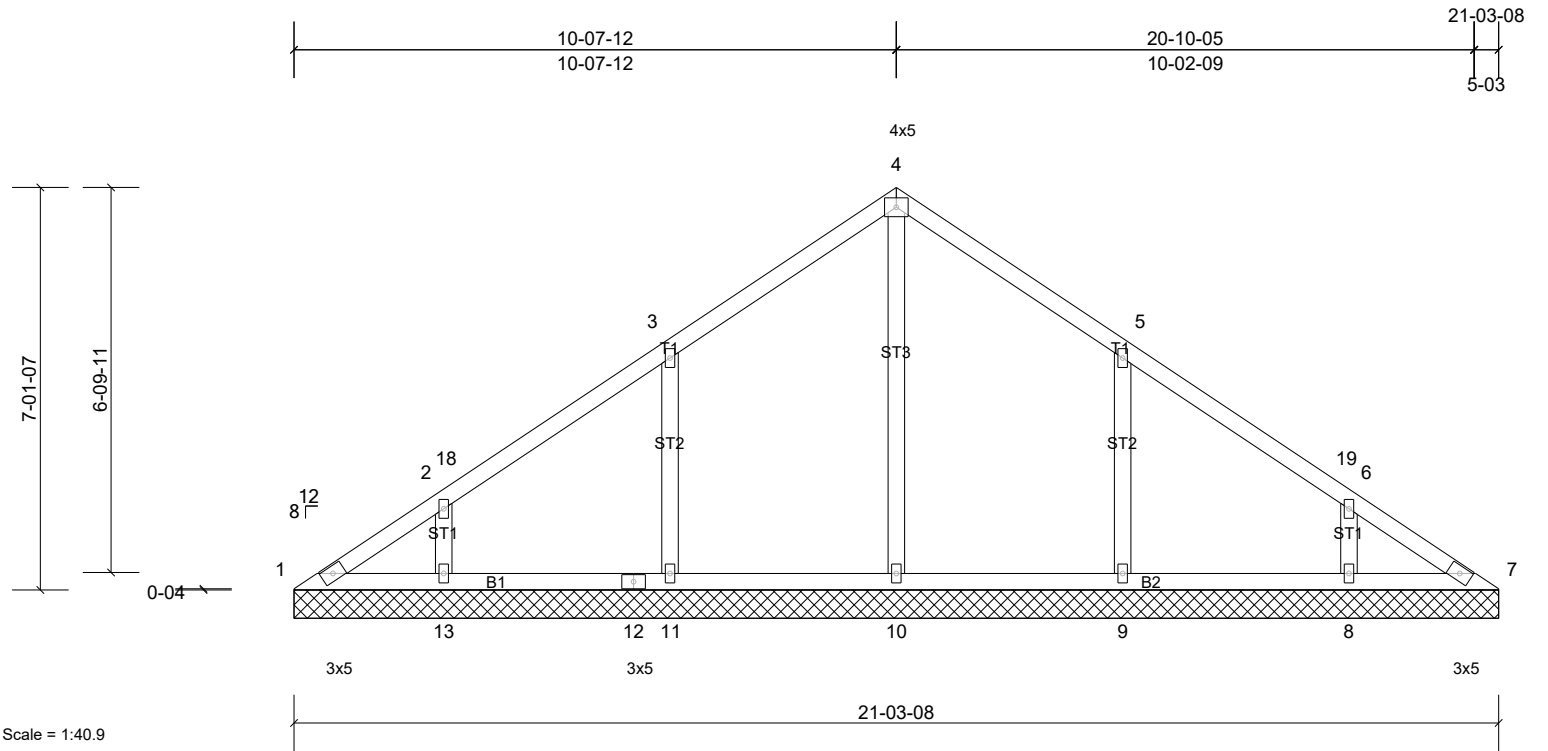
REACTIONS All bearings 24-04-04.
(lb) - Max Horiz 1=-265 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 14, 18, 25 except 15=-110 (LC 14), 16=-101 (LC 14), 17=-107 (LC 14), 20=-102 (LC 13), 22=-106 (LC 13), 23=-101 (LC 13), 24=-109 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-250/213, 6-7=-152/253, 7-8=-152/253

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 12-2-2, Corner(3R) 12-2-2 to 15-2-2, Exterior(2N) 15-2-2 to 24-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06'-00 tall by 2'-00'-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 25, 18, 14 except (jt=lb) 20=102, 22=105, 23=101, 24=108, 17=107, 16=100, 15=110.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V17	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	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	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.01	7	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 93 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

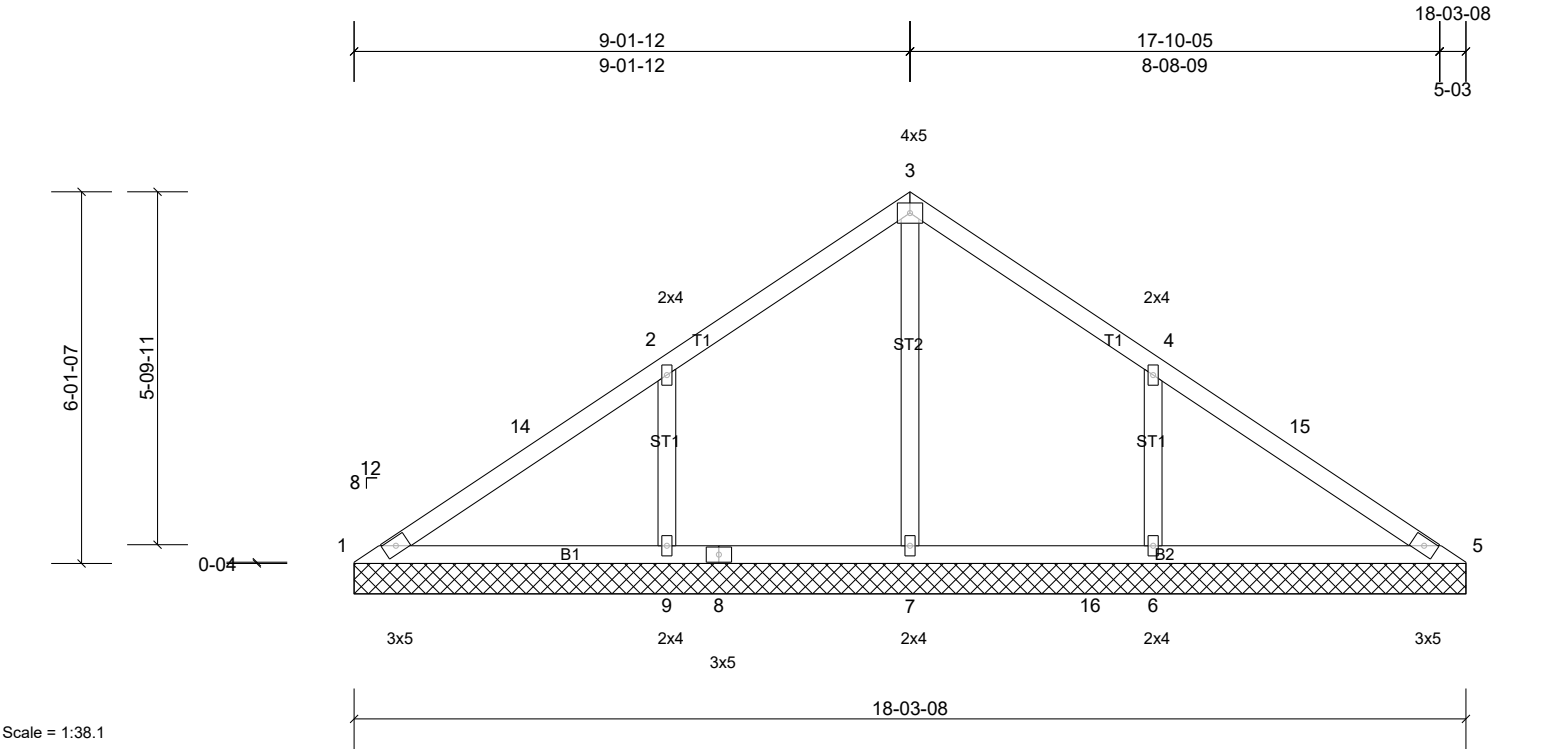
REACTIONS All bearings 21-03-08.
(lb) - Max Horiz 1=232 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 8=-160 (LC 14), 9=-232 (LC 14), 11=-232 (LC 13), 13=-164 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=371 (LC 23), 9=489 (LC 23), 10=413 (LC 25), 11=489 (LC 22), 13=376 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-356/282, 2-13=-283/231, 5-9=-356/282, 6-8=-283/231

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 10-8-2, Corner(3R) 10-8-2 to 13-8-2, Exterior(2N) 13-8-2 to 21-3-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=231, 13=164, 9=232, 8=160.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V18	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:38.1

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 75 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

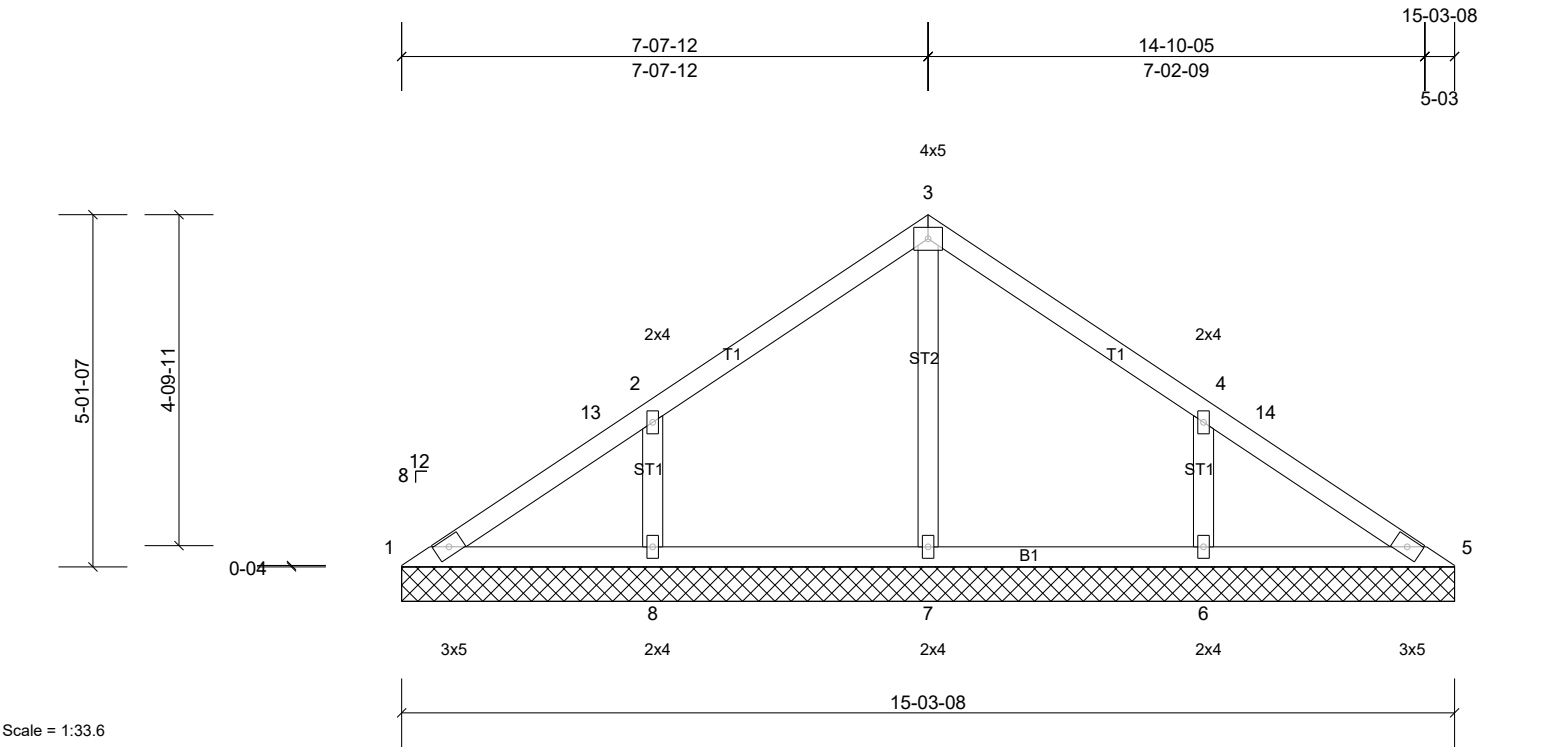
REACTIONS All bearings 18-03-08.
(lb) - Max Horiz 1=-198 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-276 (LC 14), 9=-279 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=591 (LC 23), 7=564 (LC 22), 9=596 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-183/282, 2-14=-169/359, 2-3=-17/268, 4-15=-154/331, 5-15=-167/256
WEBS 3-7=-420/84, 2-9=-413/344, 4-6=-413/344

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 9-2-2, Corner(3R) 9-2-2 to 12-2-2, Exterior(2N) 12-2-2 to 18-3-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=278, 6=276.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V19	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 61 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

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

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

REACTIONS All bearings 15-03-08.
(lb) - Max Horiz 1=-165 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-225 (LC 14), 8=-227 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=406 (LC 23), 7=336 (LC 1), 8=408 (LC 22)

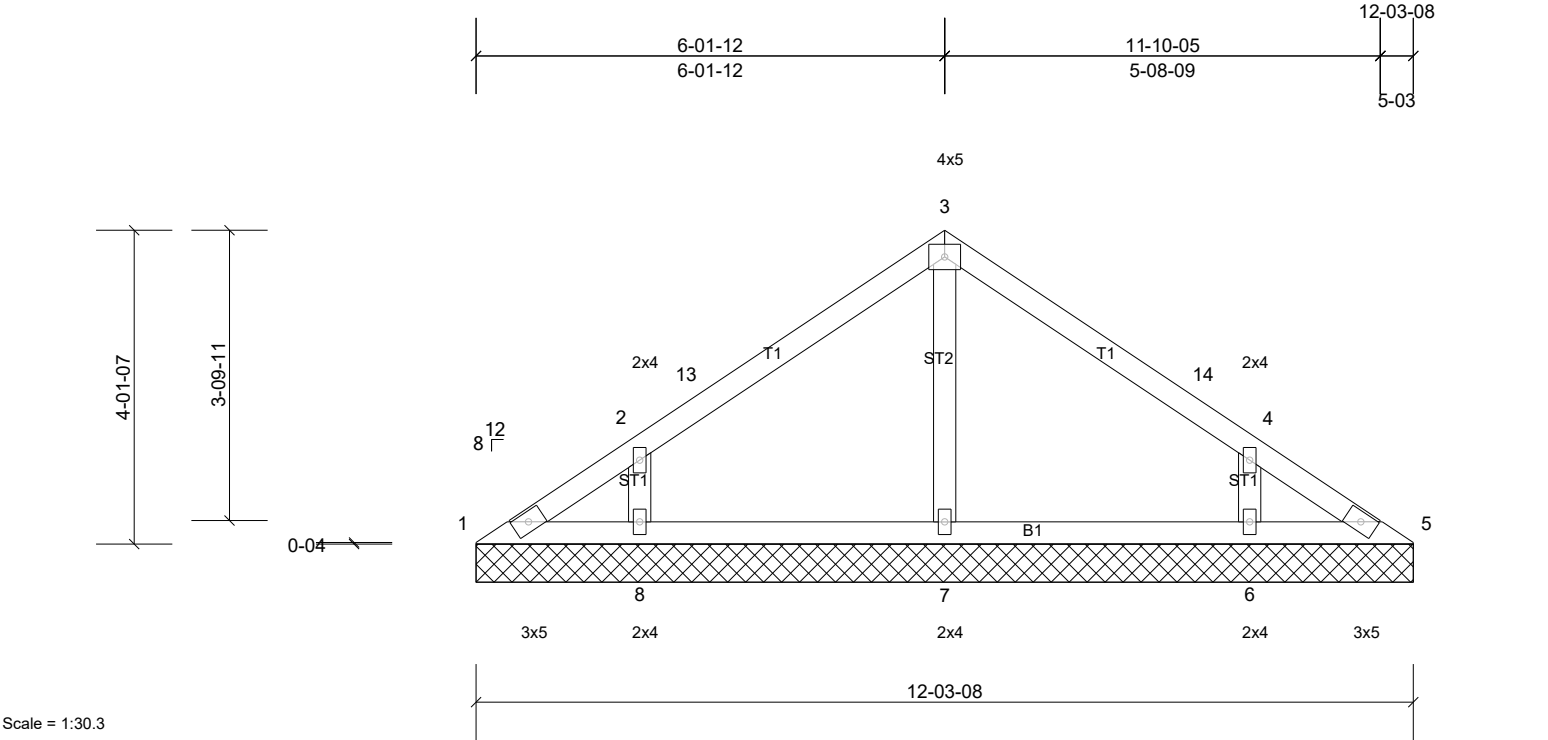
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-264/57, 2-8=-350/328, 4-6=-350/328

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 7-8-2, Corner(3R) 7-8-2 to 10-8-2, Exterior(2N) 10-8-2 to 15-3-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=227, 6=224.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V20	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof
Job Reference (optional)					

Carter Components, jon.rife



Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 47 lb	FT = 20%
BCDL	10.0											

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

BRACING
TOP CHORD
BOT CHORD

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

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

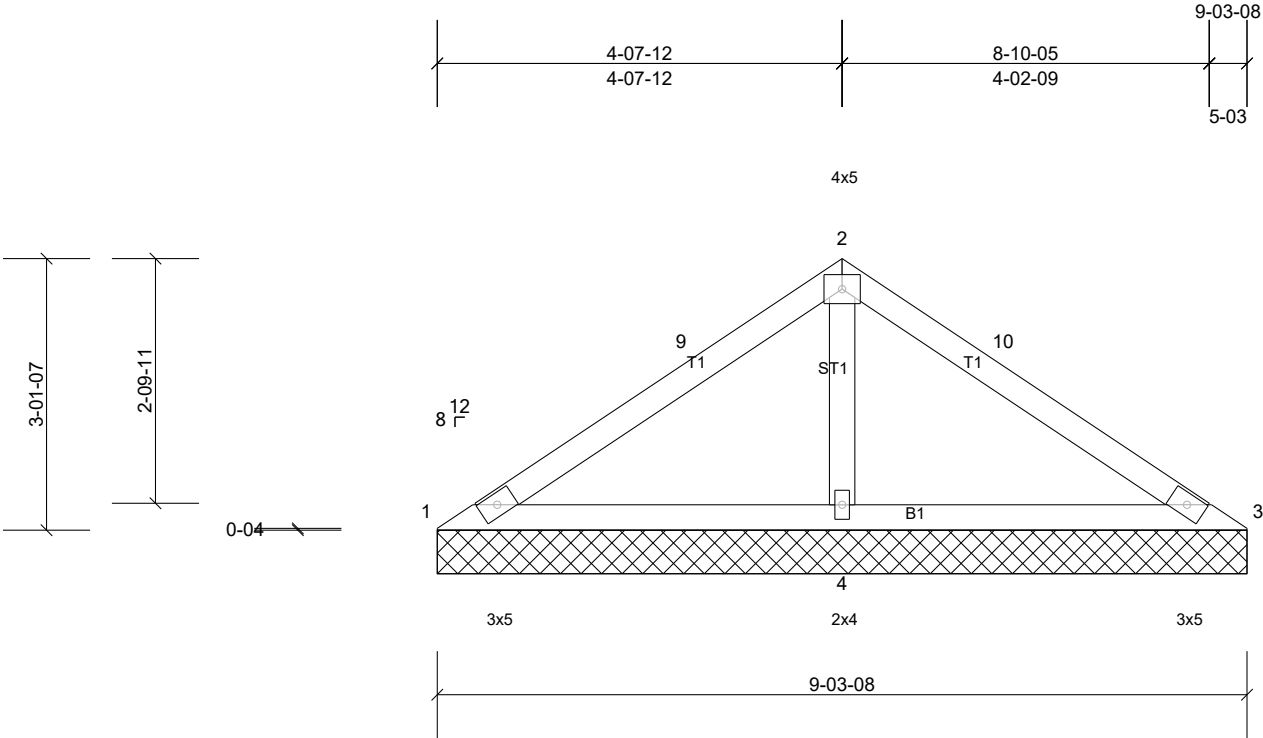
REACTIONS All bearings 12-03-08.
(lb) - Max Horiz 1=-132 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-190 (LC 14), 8=-193 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=344 (LC 23), 7=270 (LC 1), 8=347 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-343/370, 4-6=-343/370

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 6-2-2, Corner(3R) 6-2-2 to 9-2-2, Exterior(2N) 9-2-2 to 12-3-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=192, 6=189.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V21	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 33 lb	FT = 20%
BCDL	10.0											

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 9-3-8 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

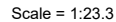
REACTIONS (lb/size) 1=39/9-03-08, (min. 1-08), 3=39/9-03-08, (min. 1-08), 4=680/9-03-08, (min. 1-08)
Max Horiz 1=-98 (LC 9)
Max Uplift 1=-18 (LC 35), 3=-25 (LC 9), 4=-189 (LC 13)
Max Grav 1=75 (LC 34), 3=75 (LC 35), 4=680 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-229/301, 2-9=-215/359, 2-10=-207/359, 3-10=-221/301
BOT CHORD 1-4=-295/319, 3-4=-295/319
WEBS 2-4=-655/493

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 4-8-2, Corner(3R) 4-8-2 to 7-8-2, Exterior(2N) 7-8-2 to 9-3-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 25 lb uplift at joint 3 and 189 lb uplift at joint 4.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Carter Components, jon.rife Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Mon Mar 03 10:04:22 Page: 1
ID:bLGxm6WoUEd?J6NsHb?wOVzrtGN-BC?DTkkoS500OFaiZlqRzGRN6 SvPy85Z8nHvUzegk8



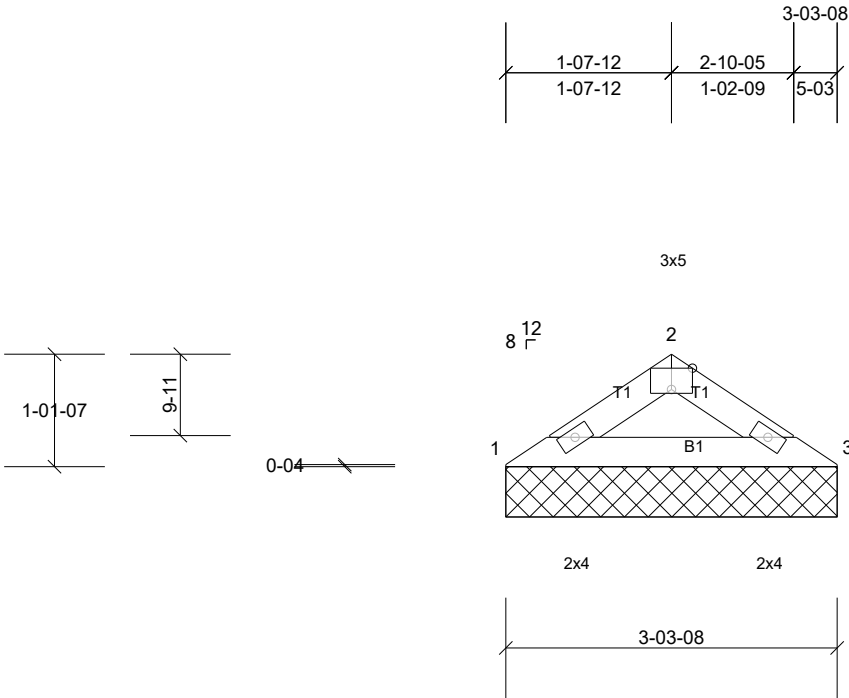
LUMBER		BRACING	Structural wood sheathing directly applied or 6-3-8 oc purlins.
TOP CHORD	2x4 SP No.2	TOP CHORD	<u>Rigid ceiling directly applied or 6-0-0 oc bracing.</u> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
BOT CHORD	2x4 SP No.2	BOT CHORD	
OTHERS	2x4 SP No.3		
REACTIONS (lb/size)	1=51/6-03-08, (min. 1-08), 3=51/6-03-08, (min. 1-08), 4=411/6-03-08, (min. 1-08)		

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TC LL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 21 lb uplift at joint 3 and 108 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 25020278-B	Truss V23	Truss Type Valley	Qty 1	Ply 1	SPENCER-Roof Job Reference (optional)
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Scale = 1:23

Plate Offsets (X, Y): [2:2-08,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%
BCDL	10.0											

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-3-8 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=134/3-03-08, (min. 1-08), 3=134/3-03-08, (min. 1-08)
Max Horiz 1=-31 (LC 9)
Max Uplift 1=-34 (LC 13), 3=-34 (LC 14)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 34 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard