

Job M2505414	Truss A1	Truss Type Common	Qty 24	Ply 1	
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Run: 8.82 S Dec 31 2024 Print: 8.820 S Dec 31 2024 MiTek Industries, Inc. Wed Nov 26 14:43:09 Page: 1
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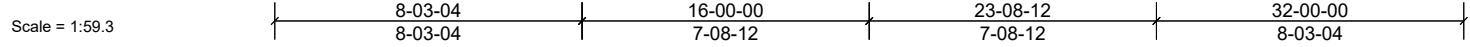
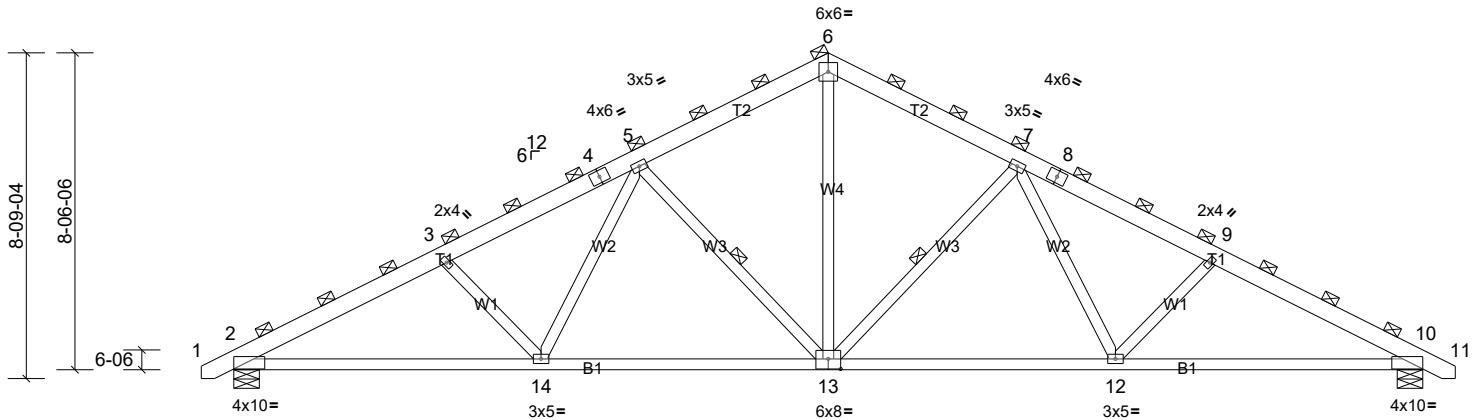
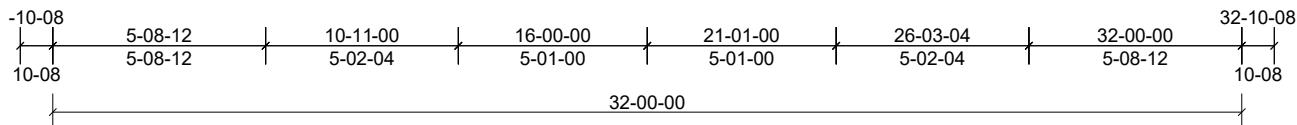


Plate Offsets (X, Y): [13:4-00,3-04]

Loading	(psf)	Spacing	4-00-00	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.15	TC	0.68	-0.26	13-14	>999	360		
Snow (Ps/Pg)	33.6/40.0	Lumber DOL	1.15	BC	0.57	-0.35	13-14	>999	360		
TCDL	5.0	Rep Stress Incr	NO	WB	0.53	0.16	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-S							
BCDL	5.0									Weight: 183 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2

REACTIONS (lb/size) 2=2891/8-04, (min. 2-12), 10=2891/8-04, (min. 2-12)
Max Horiz 2=133 (LC 10)
Max Uplift 2=-197 (LC 11), 10=-197 (LC 12)
Max Grav 2=3319 (LC 2), 10=3319 (LC 2)

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

TOP CHORD 2-3=-5594/331, 3-4=-5005/298, 4-5=-4617/312, 5-6=-3625/268, 6-7=-3625/268, 7-8=-4617/313, 8-9=-5005/298,
9-10=-5594/331

BOT CHORD 2-14=-336/4749, 13-14=-197/3971, 12-13=-98/3971, 10-12=-214/4749
WEBS 6-13=-125/2179, 3-14=-739/182, 5-14=-36/785, 5-13=-1522/218, 7-13=-1522/218, 7-12=-37/785, 9-12=-739/182

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=40.0 psf; Ps=33.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.20
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 33.6 psf on overhangs non-concurrent with other live loads.
- Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 197 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

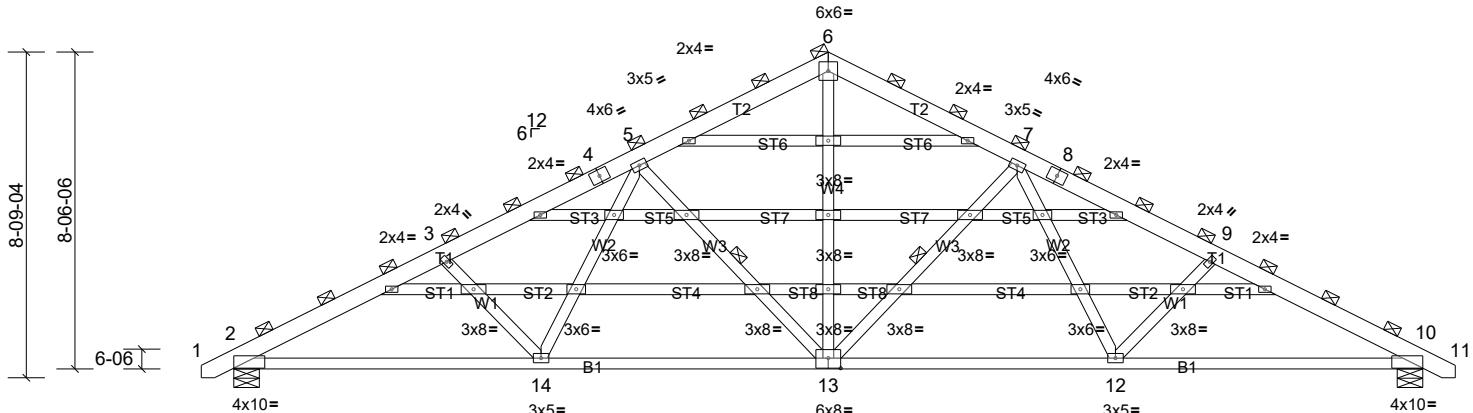
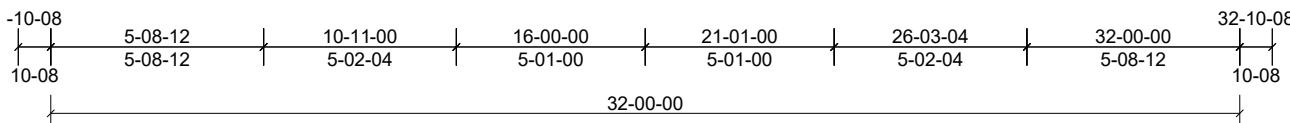
LOAD CASE(S) Standard

Job M2505414	Truss A1E	Truss Type Common Structural Gable	Qty 2	Ply 1	
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Scale = 1:59.3	8-03-04	16-00-00	23-08-12	32-00-00
	8-03-04	7-08-12	7-08-12	8-03-04

Plate Offsets (X, Y): [13:4-00,3-04]

Loading	(psf)	Spacing	4-00-00	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	40.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.26	13-14	>999	360	MT20	244/190
Snow (Ps/Pg)	33.6/40.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.35	13-14	>999	360		
TCDL	5.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.16	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-S								
BCDL	5.0											

Weight: 236 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SPF No.2
 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (2-9-4 max.)
 (Switched from sheeted: Spacing > 2-0-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-13, 7-13

REACTIONS (lb/size) 2=2891/8-04, (min. 2-12), 10=2891/8-04, (min. 2-12)
 Max Horiz 2=133 (LC 10)
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 Max Grav 2=3319 (LC 2), 10=3319 (LC 2)

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

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WEBS 6-13=-125/2179, 3-14=-739/182, 5-14=-36/785, 5-13=-1522/218, 7-13=-1522/218, 7-12=-37/785, 9-12=-739/182

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=40.0 psf; Ps=33.6 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.20
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 33.6 psf on overhangs non-concurrent with other live loads.
- Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- Horizontal gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 197 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard