Job	Truss	Truss Type	Qty	Ply	
21092463JR	G01	Common Girder	1	1	Job Reference (optional)

Run: 8.51 S Aug 16 2021 Print: 8.510 S Aug 16 2021 MiTek Industries, Inc. Thu Oct 07 16:50:30 Page: 1
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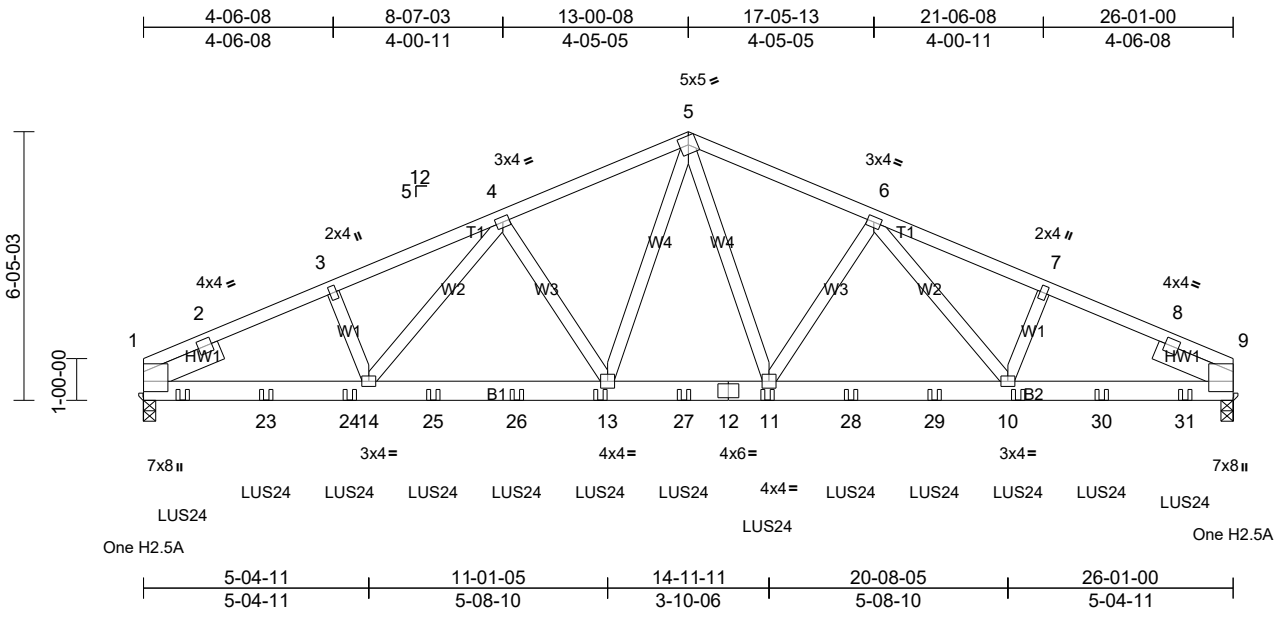

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.15	10-11	>999	240	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.24	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 143 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SP No.2 -- 2-00-00, Right 2x6 SP No.2 -- 2-00-00

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-1-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-08, (min. 1-09), 9=3-08, (min. 1-08)
Max Horiz 1=71 (LC 9)
Max Uplift 1=-510 (LC 9), 9=-502 (LC 10)
Max Grav 1=1854 (LC 1), 9=1839 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1401/357, 2-3=-2981/814, 3-4=-2899/833, 4-5=-2530/716, 5-6=-2535/719, 6-7=-2913/842, 7-8=-2995/822, 8-9=-1208/325
BOT CHORD 1-23=-771/2677, 23-24=-771/2677, 14-24=-771/2677, 14-25=-680/2508, 25-26=-680/2508, 13-26=-680/2508, 13-27=-495/2016, 12-27=-495/2016, 11-12=-495/2016, 11-28=-614/2515, 28-29=-614/2515, 10-29=-614/2515, 10-30=-708/2690, 30-31=-708/2690, 9-31=-708/2690
WEBS 5-11=-304/928, 6-11=-527/189, 6-10=-130/261, 5-13=-296/913, 4-13=-522/186, 4-14=-124/251

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-11-4 from the left end to 24-11-4 to connect truss(es) to front face of bottom chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-66, 5-9=-66, 15-19=-20
Concentrated Loads (lb)
Vert: 11=-111 (F), 10=-111 (F), 13=-111 (F), 17=-112 (F), 23=-111 (F), 24=-111 (F), 25=-111 (F), 26=-111 (F), 27=-111 (F), 28=-111 (F), 29=-111 (F), 30=-111 (F), 31=-111 (F)

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T01	Common	13	1	Job Reference (optional)

Run: 8.51 S Aug 16 2021 Print: 8.510 S Aug 16 2021 MiTek Industries, Inc. Thu Oct 07 16:50:30 Page: 1
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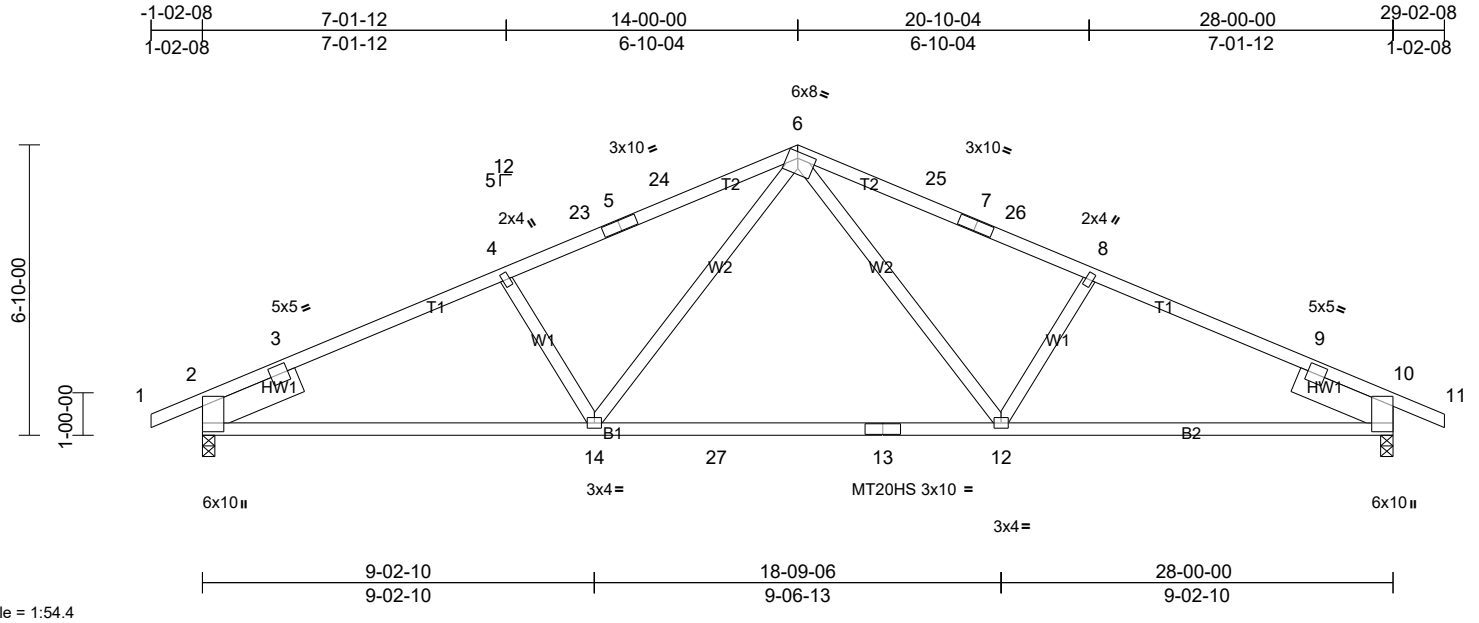

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.45	12-14	>740	240	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.76	12-14	>444	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 109 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-06-00, Right 2x8 SPF No.2 -- 2-06-00

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 2=3-08, (min. 2-00), 10=3-08, (min. 2-00)
Max Horiz 2=83 (LC 11)
Max Uplift 2=-107 (LC 11), 10=-107 (LC 12)
Max Grav 2=1287 (LC 1), 10=1287 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-2000/191, 4-23=-1828/183, 5-23=-1758/186, 5-24=-1744/191, 6-24=-1727/202, 6-25=-1727/202, 7-25=-1744/191, 7-26=-1758/186, 8-26=-1828/183, 8-9=-2000/191
BOT CHORD 2-14=-188/1768, 14-27=-38/1295, 13-27=-38/1295, 12-13=-38/1295, 10-12=-91/1768
WEBS 6-12=-66/602, 8-12=-381/169, 6-14=-66/602, 4-14=-381/169

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-2-8, Exterior (2) 26-2-8 to 29-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T01GE	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.51 S Aug 16 2021 Print: 8.510 S Aug 16 2021 MiTek Industries, Inc. Thu Oct 07 16:50:30 Page: 1
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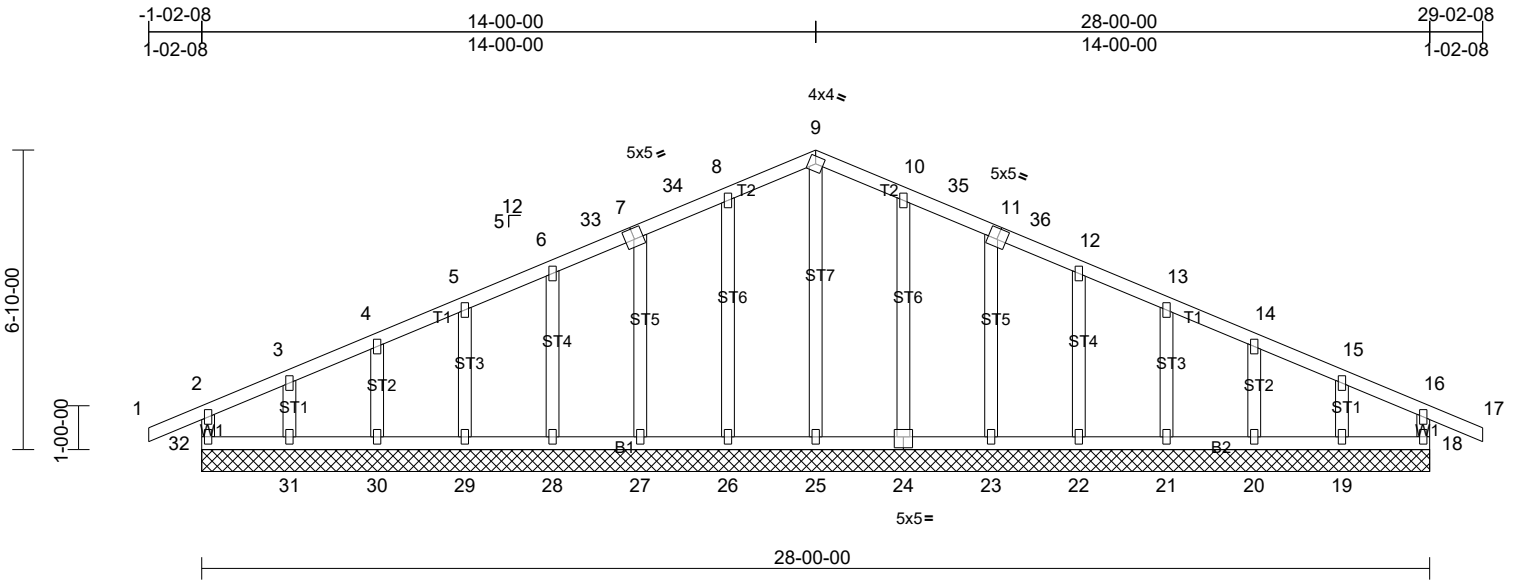

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	18	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 124 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 28-00-00.
(lb) - Max Horiz 32=-64 (LC 16)
Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32
Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 20, 21, 22, 23, 25, 27, 28, 29, 30, 31, 32 except 24=255 (LC 19), 26=255 (LC 18)

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

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-8 to 2-0-0, Exterior (2) 2-0-0 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 26-0-0, Corner (3) 26-0-0 to 29-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
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) 32, 18, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19.
12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T02	Common	13	1	Job Reference (optional)

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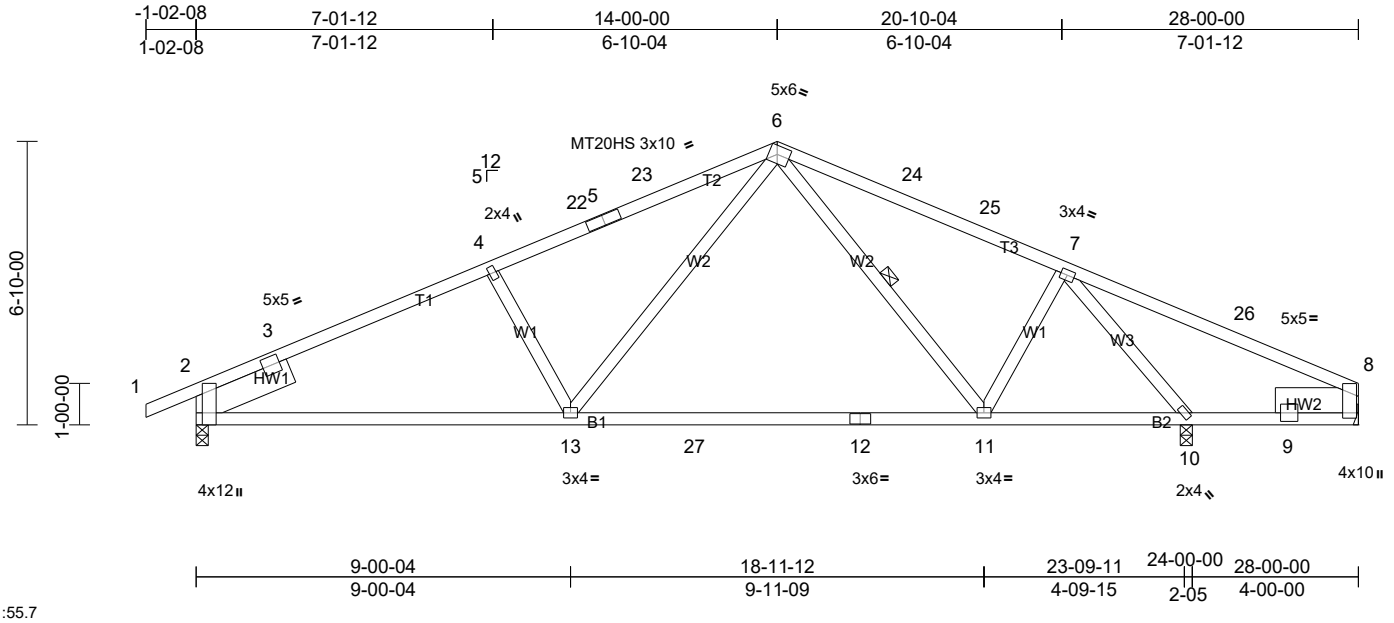

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.35	11-13	>828	240	MT20HS	148/108
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.61	11-13	>474	180	MT20	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 111 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2 *Except* 5-6:2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-06-00, Right 2x8 SPF No.2 -- 2-00-00

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-10.
WEBS 1 Row at midpt 6-11

REACTIONS (size) 2=3-08, (min. 1-12), 8= Mechanical, (min. 1-08), 10=3-08, (min. 2-00)
Max Horiz 2=89 (LC 11)
Max Uplift 2=-104 (LC 11), 8=-55 (LC 12), 10=-38 (LC 12)
Max Grav 2=1104 (LC 1), 8=131 (LC 19), 10=1271 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1622/170, 4-22=-1458/168, 5-22=-1389/170, 5-23=-1370/174, 6-23=-1358/186, 6-24=-951/173, 24-25=-955/161, 7-25=-1051/149, 7-26=0/274
BOT CHORD 2-13=-185/1430, 13-27=-39/899, 12-27=-39/899, 11-12=-39/899, 10-11=-68/786, 8-9=-162/564
WEBS 4-13=-407/170, 6-13=-69/661, 7-11=0/364, 7-10=-1405/95

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 25-0-0, Exterior (2) 25-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 8.
9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T02GE	Common Supported Gable	1	1	Job Reference (optional)

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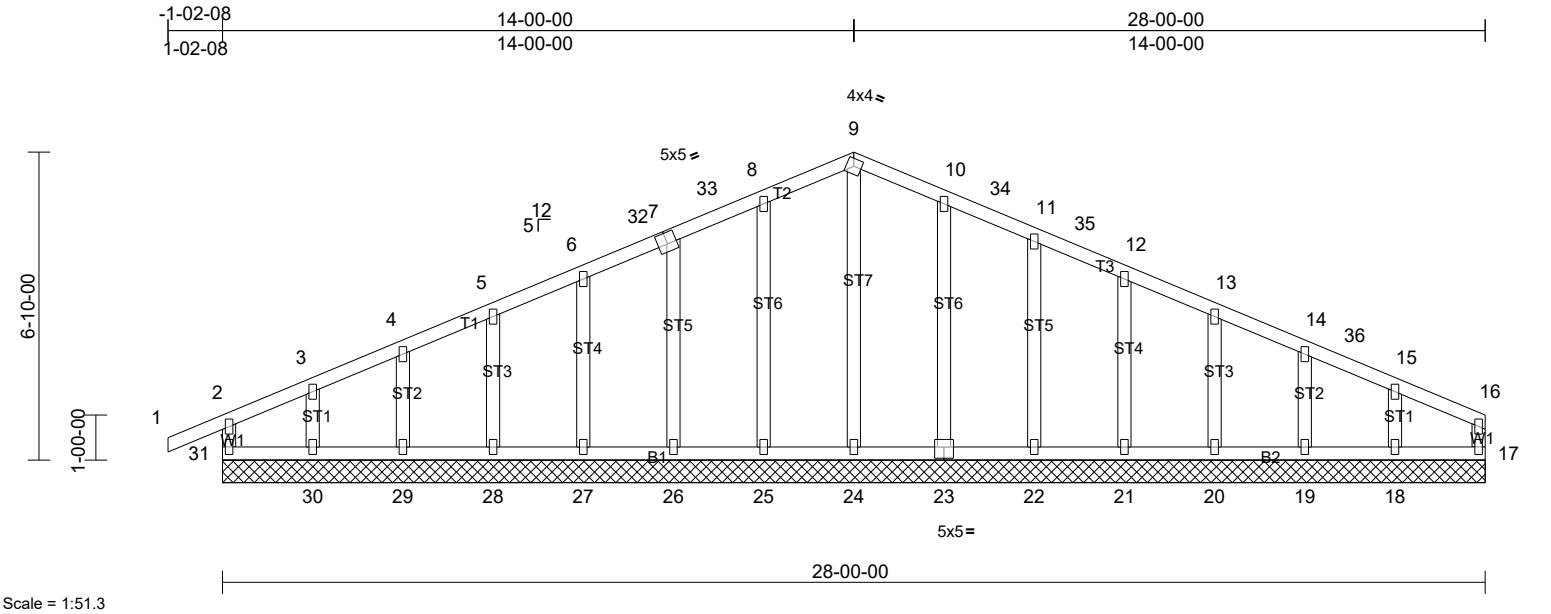

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 123 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 28-00-00.
(lb) - Max Horiz 31=71 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31
Max Grav All reactions 250 (lb) or less at joint (s) 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31 except 25=251 (LC 18)

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

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-8 to 2-0-0, Exterior (2) 2-0-0 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 24-10-4, Corner (3) 24-10-4 to 27-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
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) 31, 17, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18.
12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T03	Common	11	1	Job Reference (optional)

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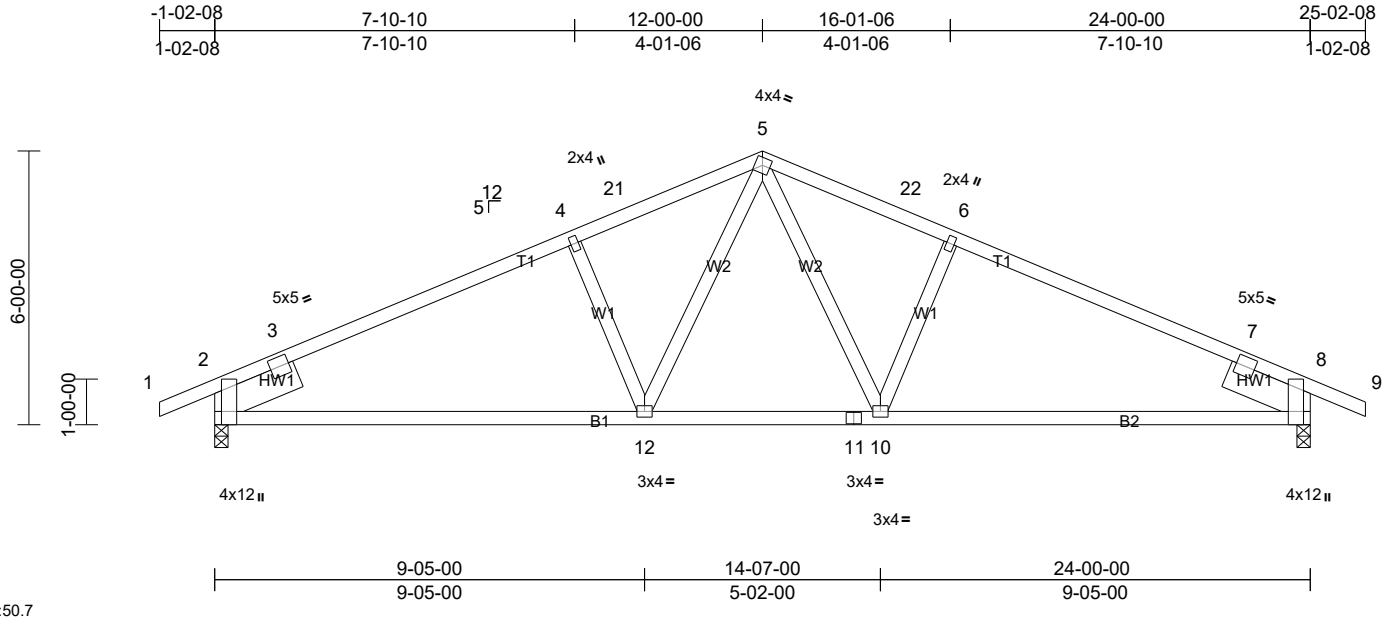

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.11	10-12	>999	240	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.18	12-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-00-00, Right 2x8 SPF No.2 -- 2-00-00

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=3-08, (min. 1-12), 8=3-08, (min. 1-12)
Max Horiz 2=72 (LC 15)
Max Uplift 2=-94 (LC 11), 8=-94 (LC 12)
Max Grav 2=1114 (LC 1), 8=1114 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-314/0, 3-4=-1596/170, 4-21=-1440/173, 5-21=-1379/188, 5-22=-1379/188, 6-22=-1440/173, 6-7=-1596/170, 7-8=-255/0
BOT CHORD 2-12=-199/1390, 11-12=-20/1087, 10-11=-20/1087, 8-10=-66/1390
WEBS 5-10=-89/517, 6-10=-372/150, 5-12=-89/517, 4-12=-372/150

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 9-0-0, Exterior (2) 9-0-0 to 15-0-0, Interior (1) 15-0-0 to 22-2-8, Exterior (2) 22-2-8 to 25-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T03GE	Common Supported Gable	1	1	Job Reference (optional)

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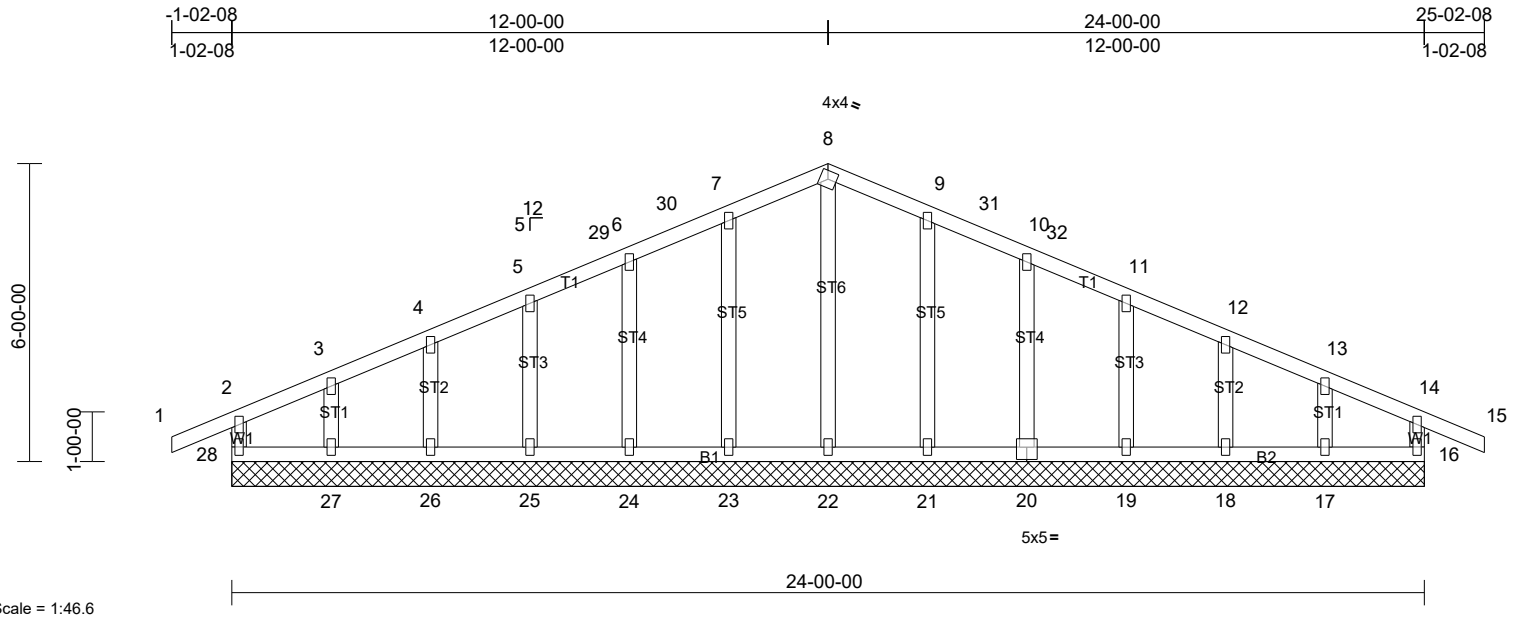

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 101 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 24-00-00.
(lb) - Max Horiz 28=53 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28
Max Grav All reactions 250 (lb) or less at joint (s) 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28

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

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-8 to 2-0-0, Exterior (2) 2-0-0 to 9-0-0, Corner (3) 9-0-0 to 15-0-0, Exterior (2) 15-0-0 to 22-0-0, Corner (3) 22-0-0 to 25-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
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) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17.
12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T04	Common	2	1	Job Reference (optional)

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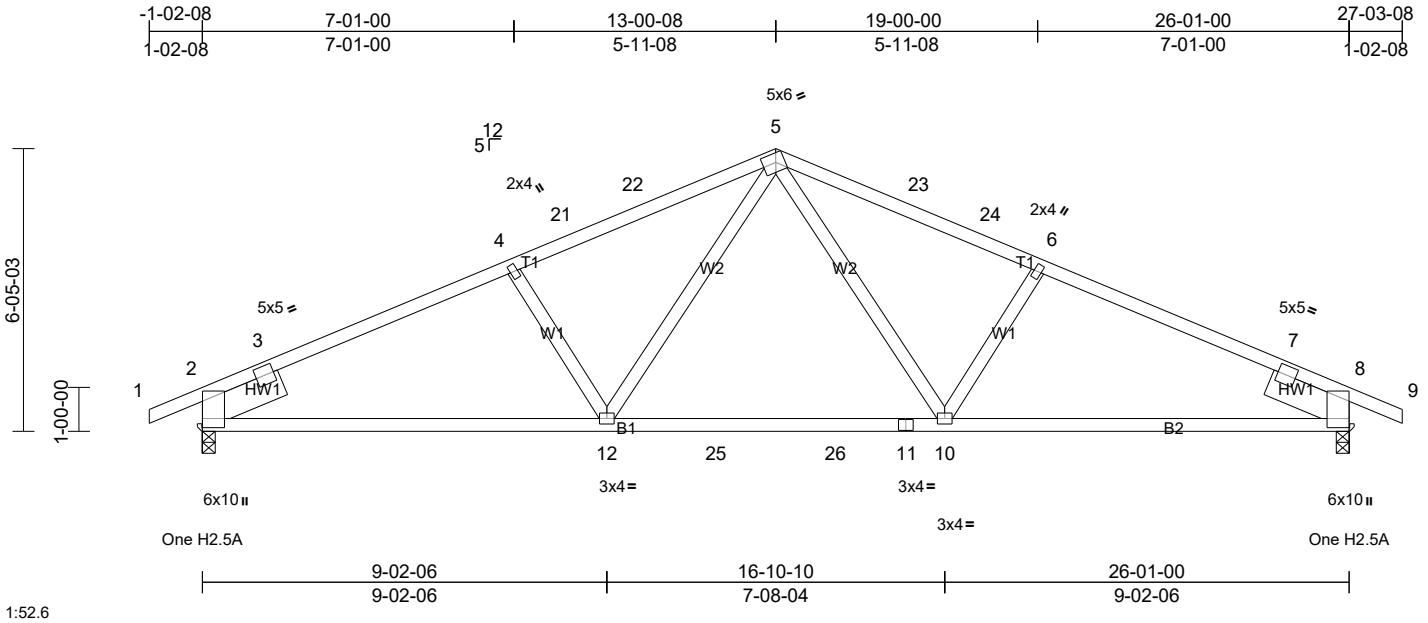

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.27	10-12	>999	240	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.43	10-12	>722	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 100 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-00-00, Right 2x8 SPF No.2 -- 2-00-00

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=3-08, (min. 1-14), 8=3-08, (min. 1-14)
Max Horiz 2=78 (LC 11)
Max Uplift 2=-101 (LC 11), 8=-101 (LC 12)
Max Grav 2=1204 (LC 1), 8=1204 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-300/6, 3-4=-1820/181, 4-21=-1636/168, 21-22=-1562/177, 5-22=-1558/189, 5-23=-1558/189, 23-24=-1562/177, 6-24=-1636/168, 6-7=-1820/181
BOT CHORD 2-12=-185/1597, 12-25=-31/1197, 25-26=-31/1197, 11-26=-31/1197, 10-11=-31/1197, 8-10=-82/1597
WEBS 5-10=-64/525, 6-10=-363/155, 5-12=-63/525, 4-12=-363/155

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 10-0-8, Exterior (2) 10-0-8 to 16-0-8, Interior (1) 16-0-8 to 24-3-8, Exterior (2) 24-3-8 to 27-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	T04GE	Common Supported Gable	1	1	Job Reference (optional)

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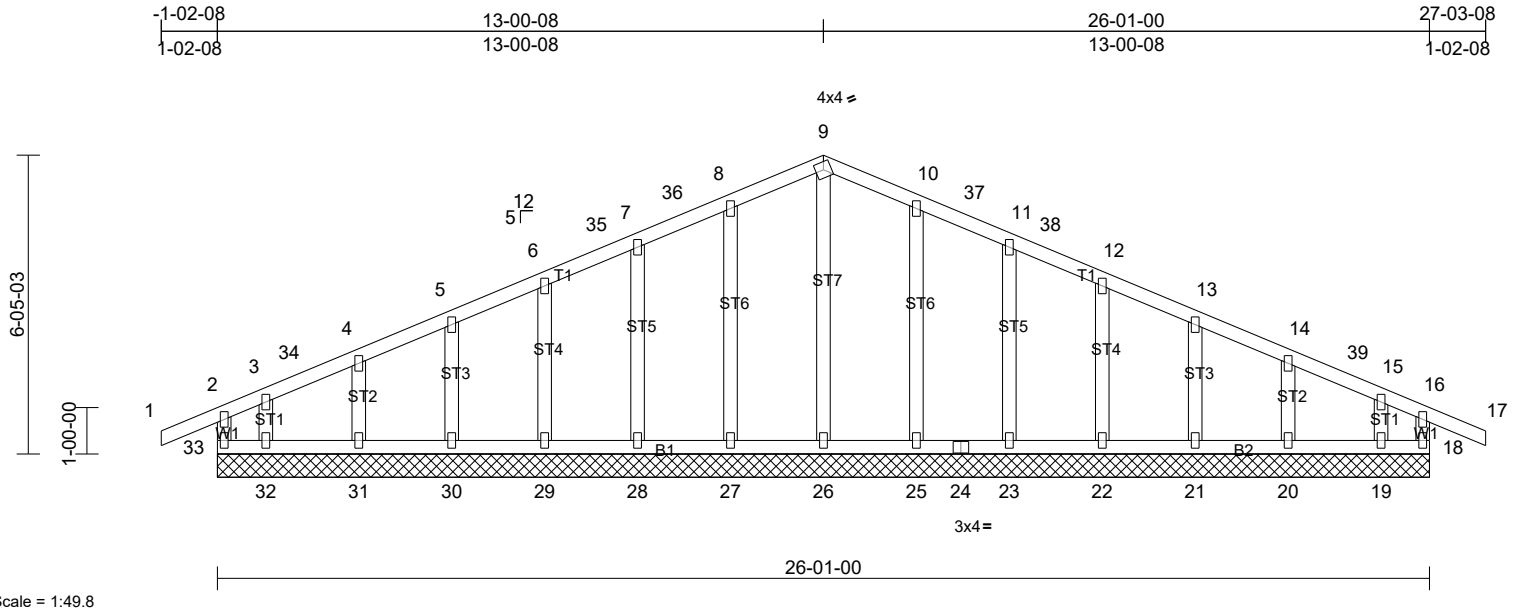

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	18	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 114 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 26-01-00.
(lb) - Max Horiz 33=59 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 25, 27, 28, 29, 30, 31, 32, 33
Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33

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

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-8 to 1-9-8, Exterior (2) 1-9-8 to 10-0-8, Corner (3) 10-0-8 to 16-0-8, Exterior (2) 16-0-8 to 24-3-8, Corner (3) 24-3-8 to 27-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
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) 33, 18, 27, 28, 29, 30, 31, 32, 25, 23, 22, 21, 20, 19.
12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	V01	Valley	1	1	Job Reference (optional)

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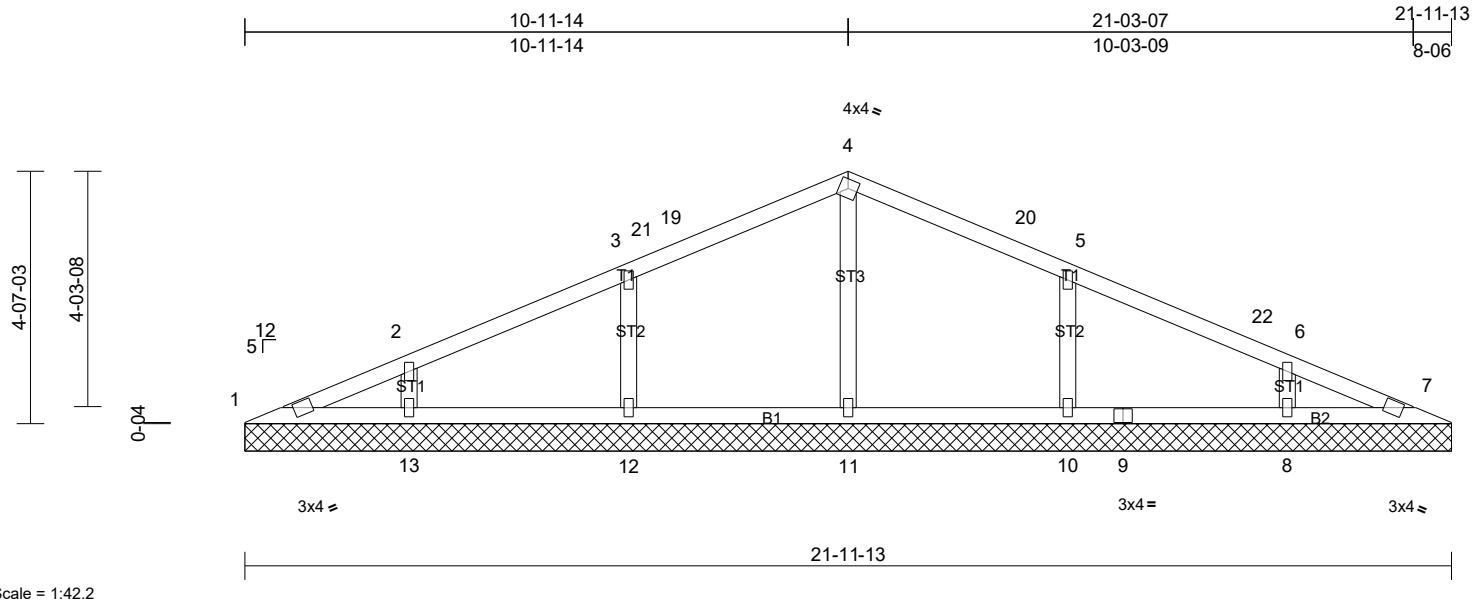

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 62 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 21-11-13.
(lb) - Max Horiz 1=61 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 10, 12, 13, 18
Max Grav All reactions 250 (lb) or less at joint (s) 1 except 8=333 (LC 1), 10=410 (LC 18), 11=402 (LC 1), 12=411 (LC 17), 13=315 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-11=-320/37, 3-12=-331/113, 5-10=-337/114

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-10 to 3-0-8, Interior (1) 3-0-8 to 8-0-8, Exterior (2) 8-0-8 to 14-0-8, Interior (1) 14-0-8 to 18-4-4, Exterior (2) 18-4-4 to 21-4-4 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=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 10, 8.
8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	V02	Valley	1	1	Job Reference (optional)

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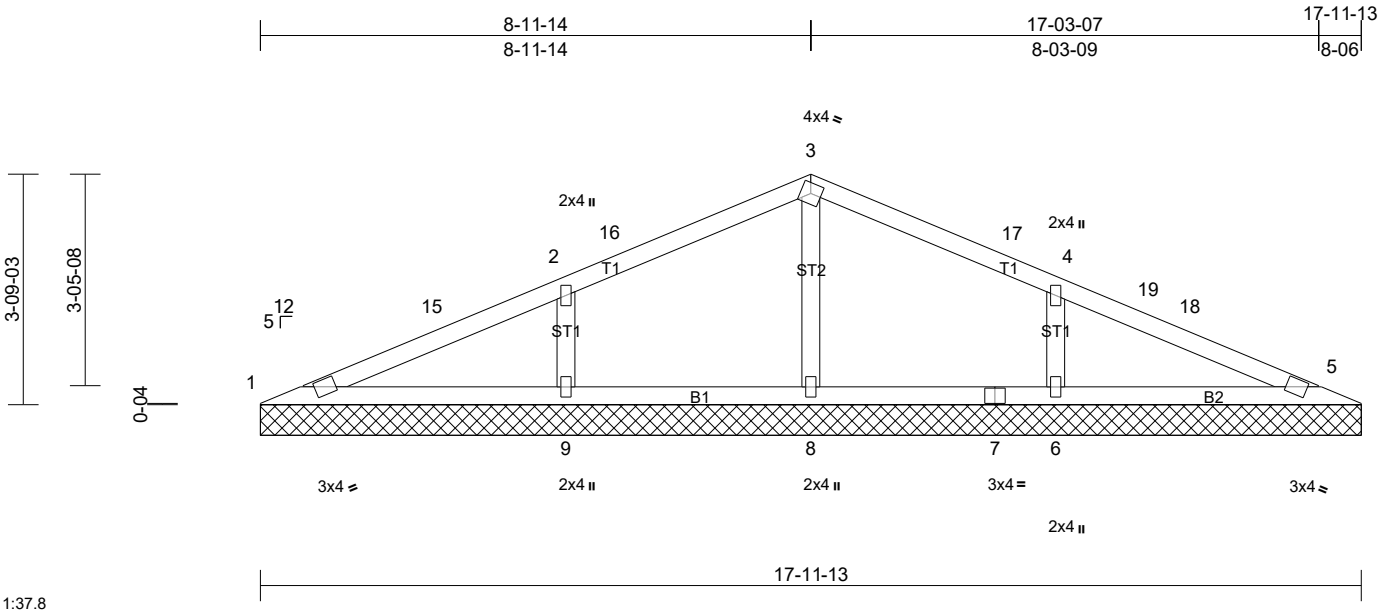

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	-0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 48 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 17-11-13.
(lb) - Max Horiz 1=50 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 9
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5, 14 except 6=475 (LC 18), 8=547 (LC 1), 9=477 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-120/361, 2-15=-38/423, 2-16=0/327, 3-16=0/404, 3-17=0/403, 4-17=0/311, 4-19=-40/423, 18-19=-46/372, 5-18=-53/361
BOT CHORD 1-9=-333/104, 8-9=-333/73, 7-8=-333/73, 6-7=-333/73, 5-6=-333/73
WEBS 3-8=-496/75, 2-9=-349/115, 4-6=-350/114

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-10 to 3-0-10, Interior (1) 3-0-10 to 6-0-8, Exterior (2) 6-0-8 to 12-0-8, Interior (1) 12-0-8 to 14-4-4, Exterior (2) 14-4-4 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=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
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, 9, 6.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	V03	Valley	1	1	Job Reference (optional)

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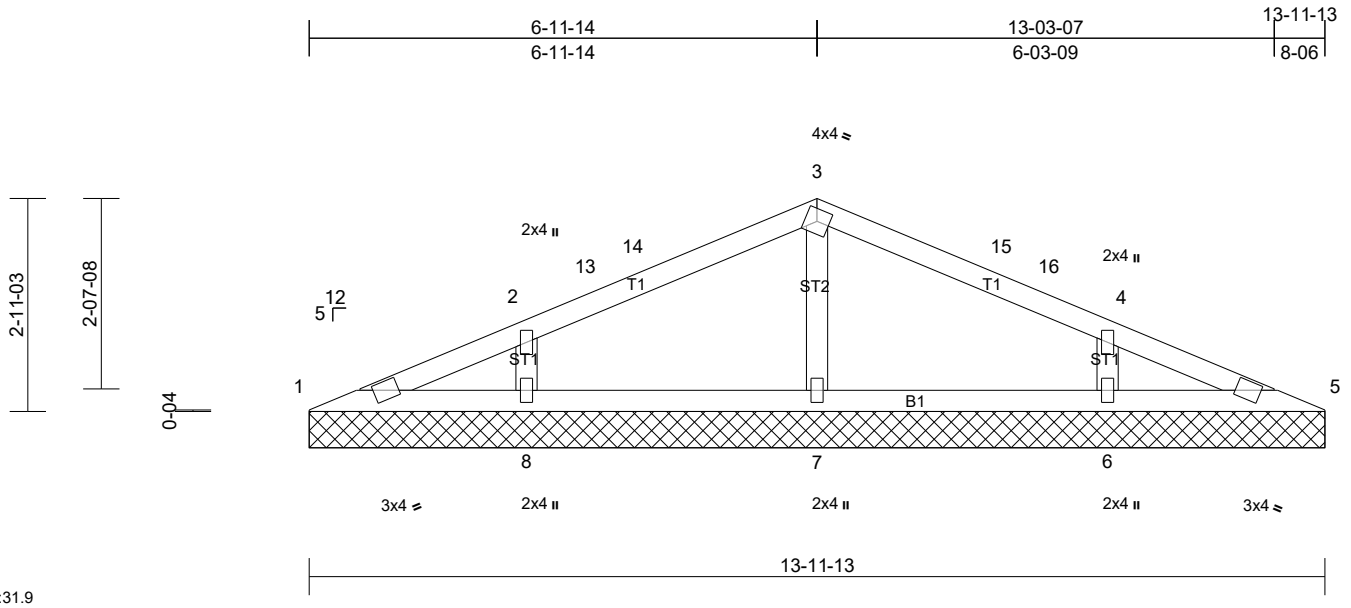

Scale = 1:31.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS All bearings 13-11-13.
(lb) - Max Horiz 1=-36 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=366 (LC 18), 7=339 (LC 1), 8=366 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-258/62, 2-8=-289/108, 4-6=-289/108

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-10 to 3-0-8, Interior (1) 3-0-8 to 4-0-8, Exterior (2) 4-0-8 to 10-0-8, Interior (1) 10-0-8 to 11-0-6, Exterior (2) 11-0-6 to 14-0-6 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=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
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, 8, 6.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	V04	Valley	1	1	Job Reference (optional)

Run: 8.51 S Aug 16 2021 Print: 8.510 S Aug 16 2021 MiTek Industries, Inc. Thu Oct 07 16:50:30 Page: 1
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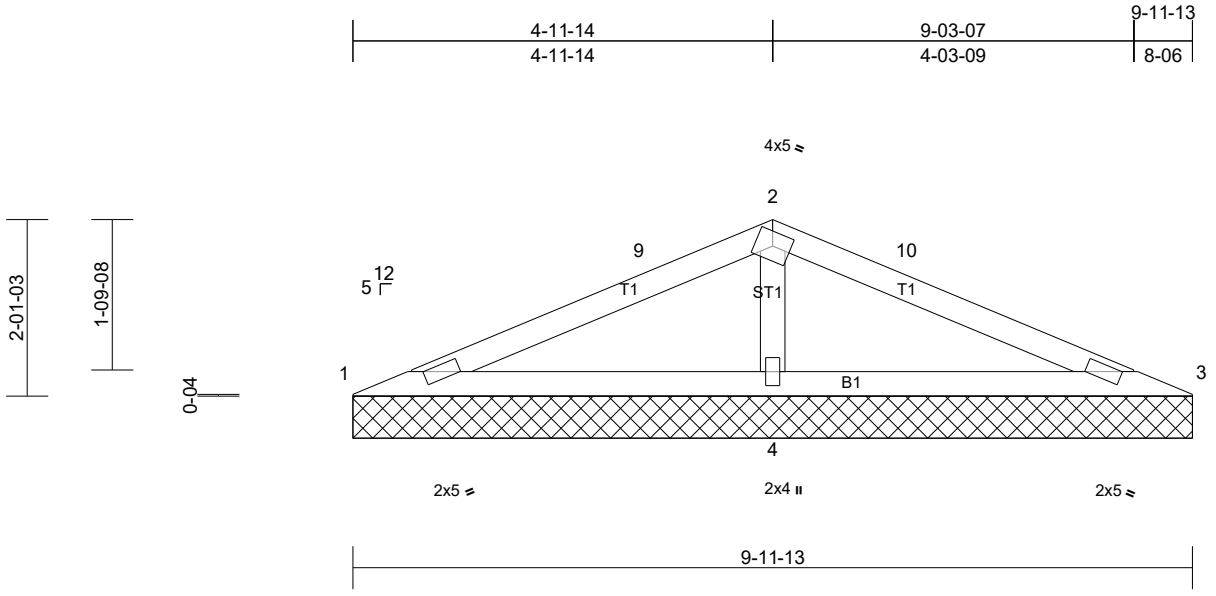

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 9-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=9-11-13, (min. 1-08), 3=9-11-13, (min. 1-08), 4=9-11-13, (min. 1-08)
Max Horiz 1=25 (LC 11)
Max Uplift 1=-12 (LC 11), 3=-17 (LC 12), 4=-40 (LC 11)
Max Grav 1=95 (LC 17), 3=95 (LC 18), 4=727 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-113/339, 2-9=-75/393, 2-10=-75/393, 3-10=-83/339
BOT CHORD 1-4=-313/116, 3-4=-313/116
WEBS 2-4=-543/170

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
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 12 lb uplift at joint 1, 17 lb uplift at joint 3 and 40 lb uplift at joint 4.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021

Job	Truss	Truss Type	Qty	Ply	
21092463JR	V05	Valley	1	1	Job Reference (optional)

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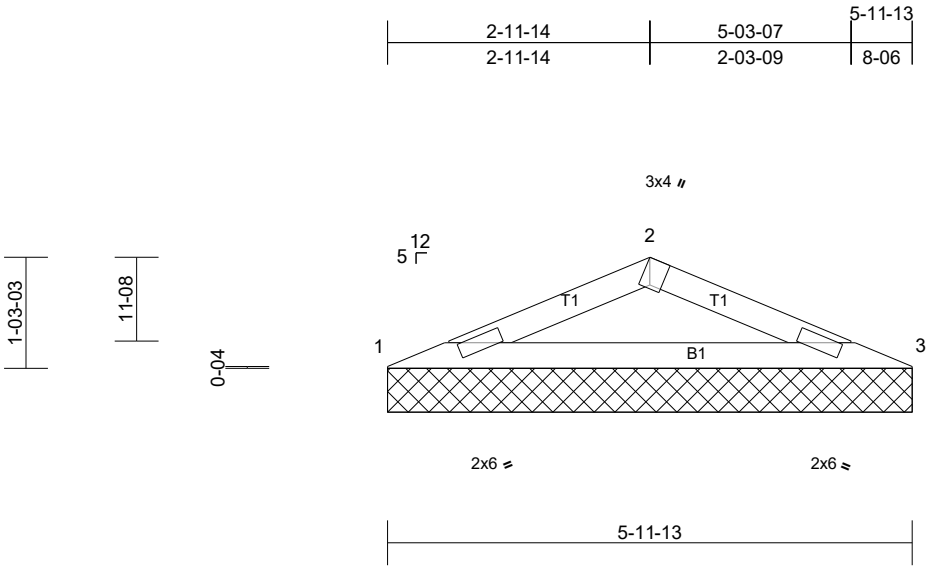

Scale = 1:26.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	23.1	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow = 30.0)		Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-11-13, (min. 1-08), 3=5-11-13, (min. 1-08)
Max Horiz 1=14 (LC 15)
Max Uplift 1=-20 (LC 11), 3=-20 (LC 12)
Max Grav 1=258 (LC 1), 3=258 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-542/153, 2-3=-352/115
BOT CHORD 1-3=-131/490

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
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 20 lb uplift at joint 1 and 20 lb uplift at joint 3.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

10/08/2021