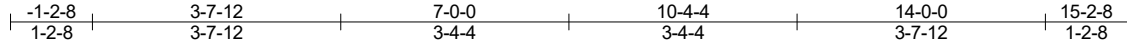


Job 28455	Truss G1	Truss Type Common	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

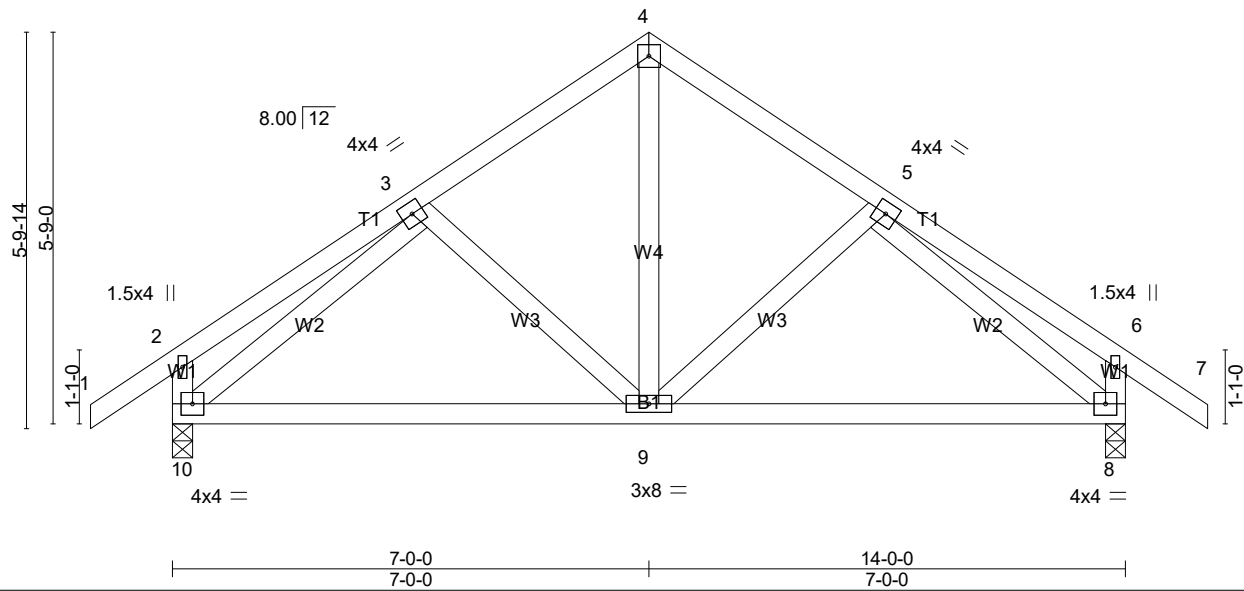
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:58:47 2025 Page 1

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4x4 =

Scale = 1:33.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.03	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.06	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00	9	>999	240	Weight: 86 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 10=630/0-3-8 (min. 0-1-8), 8=630/0-3-8 (min. 0-1-8)
Max Horz 10=-112(LC 6)
Max Uplift 10=-17(LC 8), 8=-17(LC 8)

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

TOP CHORD 3-4=-491/33, 4-5=-491/33
BOT CHORD 9-10=0/442, 8-9=0/431
WEBS 4-9=0/317, 3-10=-467/0, 5-8=-467/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 10 and 17 lb uplift at joint 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

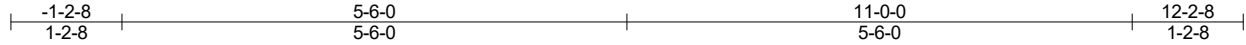
LOAD CASE(S) Standard

Job 28455	Truss G2	Truss Type Common Supported Gable	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

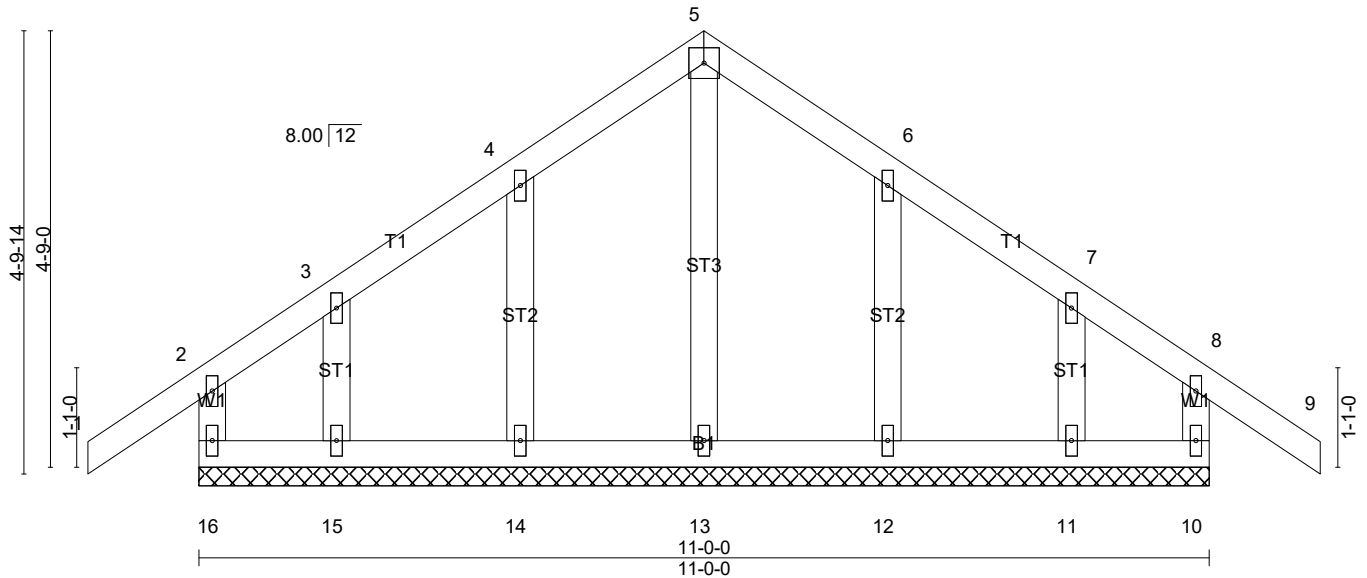
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:58:48 2025 Page 1

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4x4 =

Scale = 1:25.1



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.13	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.01	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 62 lb	FT = 20%

LUMBER-

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

BRACING-

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

(lb) - Max Horz 16=-96(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11

Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

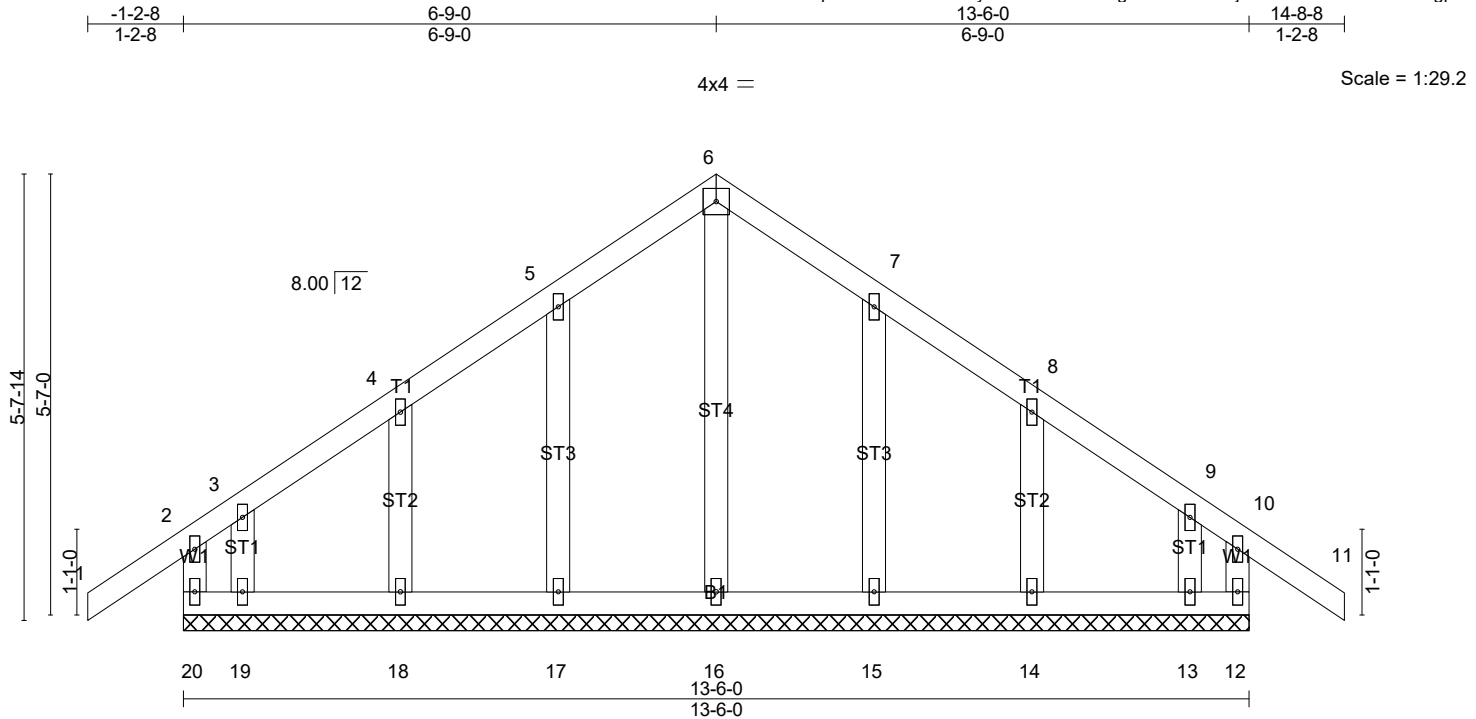
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 16, 10, 14, 15, 12, 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 28455	Truss G3	Truss Type Common Supported Gable	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(LL) -0.01 11 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Vert(CT) -0.01 11 n/r 120		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) -0.00 12 n/a n/a		
				Weight: 80 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS.

All bearings 13-6-0.
(lb) - Max Horz 20=110(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 20, 12, 17, 18, 19, 15, 14, 13.
- 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

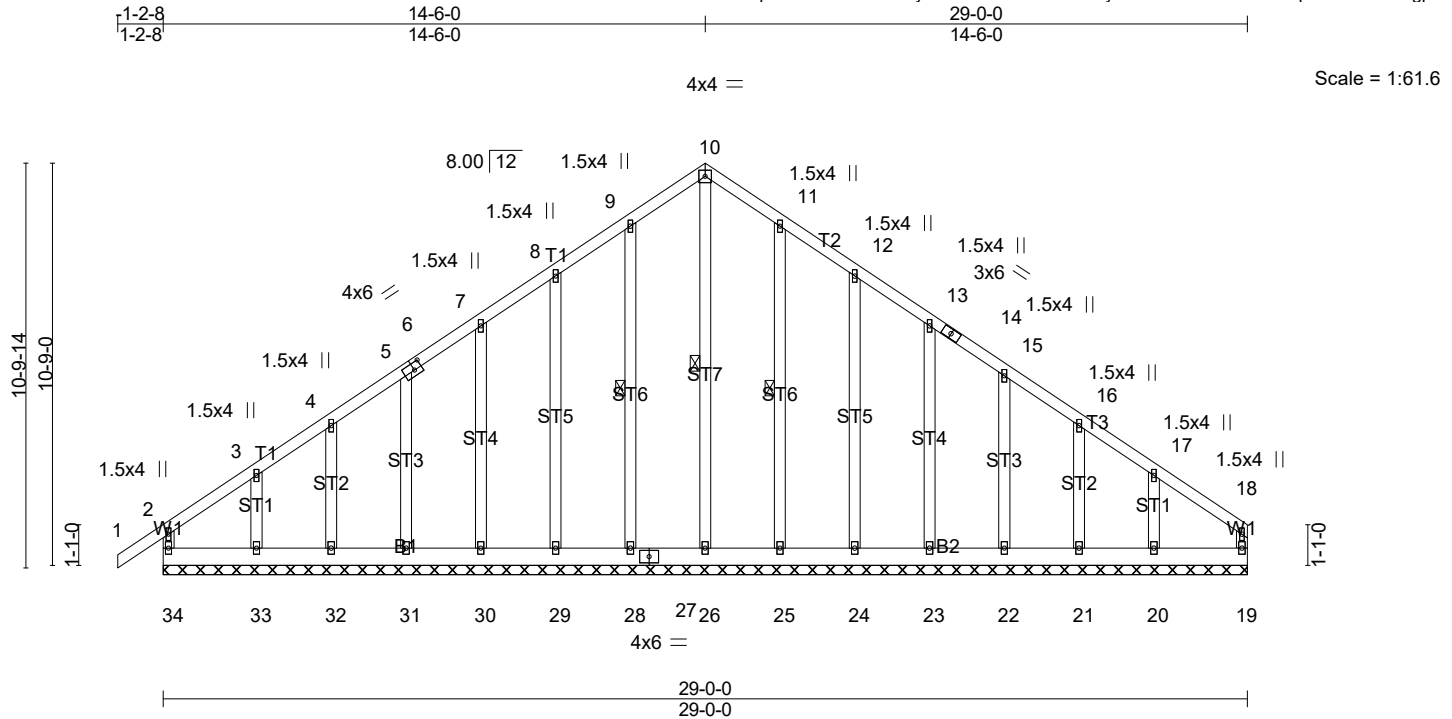


Plate Offsets (X,Y)-- [6:0-2-8,0-2-4], [18:0-0-0,0-0-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) -0.00 19 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 10-26, 9-28, 11-25

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

REACTIONS.

All bearings 29-0-0.

(lb) - Max Horz 34=192(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 34, 19, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20

Max Grav All reactions 250 lb or less at joint(s) 34, 19, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20

FORCES.

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=29ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 19, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	G4	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

Job 28455	Truss G5	Truss Type GABLE	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

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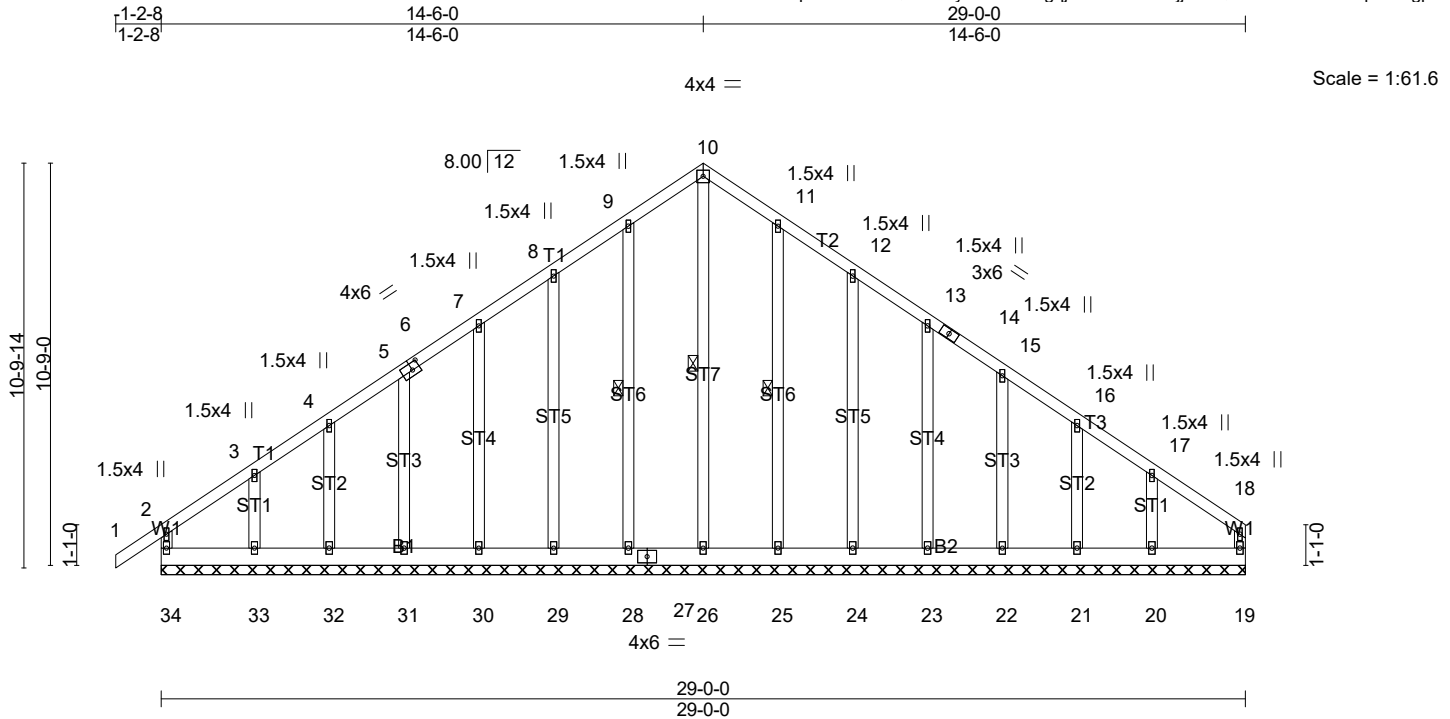


Plate Offsets (X,Y)-- [6:0-2-8,0-2-4], [18:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Horz(CT)	-0.00	19	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2018/TPI2014						Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-26, 9-28, 11-25

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

REACTIONS.

All bearings 29-0-0.
(lb) - Max Horz 34=192(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 34, 19, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 34, 19, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=29ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 34, 19, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20.
- 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.

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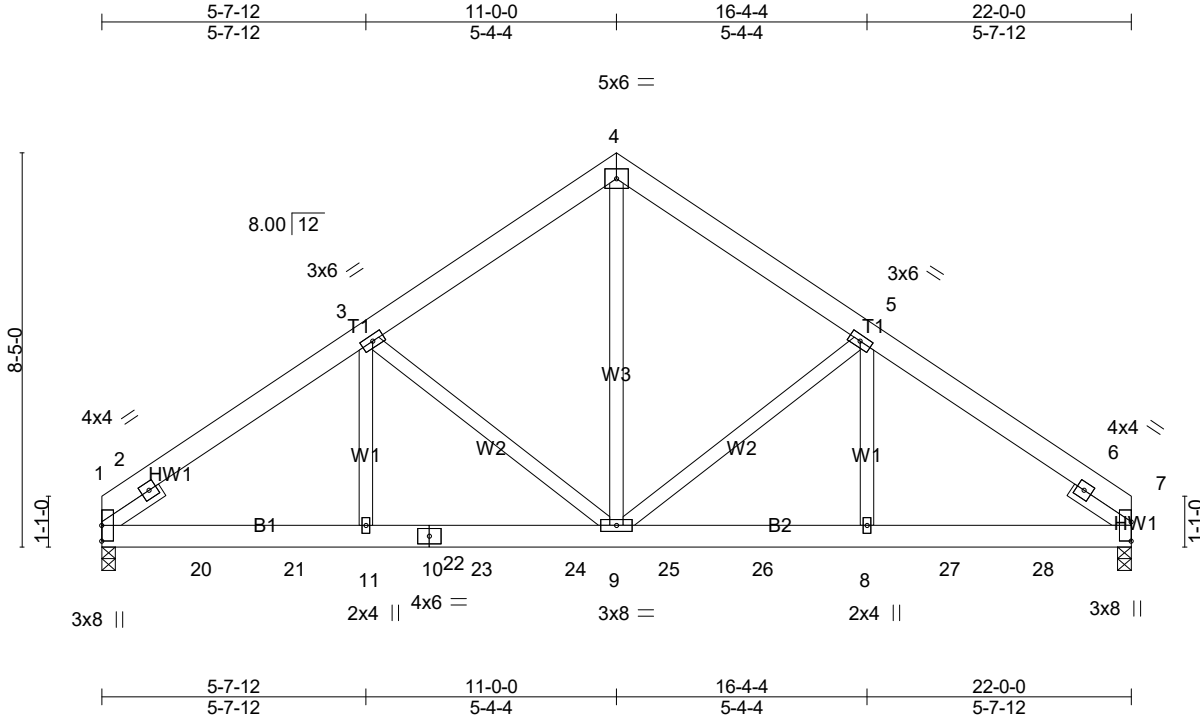
Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	G5	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	GR1	Common Girder	1	2	Job Reference (optional)

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Scale = 1:49.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.04	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.07	9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL)	0.01	11	>999	240	Weight: 322 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-6-0, Right 2x4 SP No.3 -D 1-6-0

BRACING-

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

REACTIONS. (lb/size) 1=2023/0-3-8 (min. 0-1-8), 7=2049/0-3-8 (min. 0-1-8)
Max Horz 1=-121(LC 6)

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

TOP CHORD	1-2=-1607/0, 2-3=-2632/0, 3-4=-1918/0, 4-5=-1918/0, 5-6=-2638/0, 6-7=-1630/0
BOT CHORD	1-20=0/2089, 20-21=0/2089, 11-21=0/2089, 11-22=0/2089, 10-22=0/2089, 10-23=0/2089, 23-24=0/2089, 9-24=0/2089, 9-25=0/2096, 25-26=0/2096, 8-26=0/2096, 8-27=0/2096, 27-28=0/2096, 7-28=0/2096
WEBS	4-9=0/1683, 5-9=-732/0, 5-8=0/619, 3-9=-723/0, 3-11=0/613

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	GR1	Common Girder	1	2	Job Reference (optional)

NOTES-

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down at 2-0-12, 230 lb down at 4-0-12, 230 lb down at 6-0-12, 230 lb down at 8-0-12, 230 lb down at 10-0-12, 230 lb down at 12-0-12, 230 lb down at 14-0-12, 230 lb down at 16-0-12, and 235 lb down at 18-0-12, and 235 lb down at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 12-16=-20

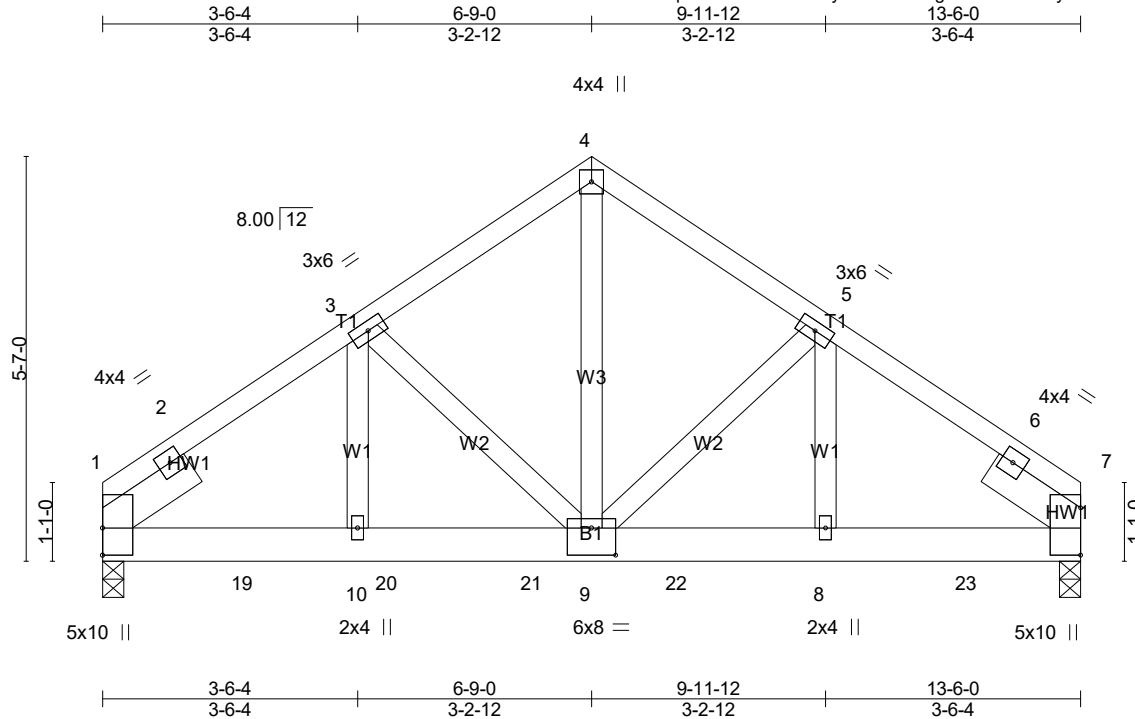
Concentrated Loads (lb)

Vert: 8=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-235(B) 28=-235(B)

Job 28455	Truss GR2	Truss Type Common Girder	Qty 1	Ply 2	Freedom Const\Green
Job Reference (optional)					

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Scale: 3/8"=1'

Plate Offsets (X,Y)-- [9:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	Vert(LL)	-0.05 9-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(CT)	-0.10 9-10	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL)	-0.01 9	>999	240		
	Code IRC2018/TPI2014						Weight: 181 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -D 1-6-0, Right 2x6 SP No.1 -D 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=3857/0-3-8 (min. 0-2-4), 7=4054/0-3-8 (min. 0-2-6)
Max Horz 1=74(LC 26)

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

TOP CHORD 1-2=-2286/0, 2-3=-4500/0, 3-4=-3602/0, 4-5=-3602/0, 5-6=-4543/0, 6-7=-2381/0
BOT CHORD 1-19=0/3612, 10-19=0/3612, 10-20=0/3612, 20-21=0/3612, 9-21=0/3612, 9-22=0/3652, 8-22=0/3652, 8-23=0/3652, 7-23=0/3652
WEBS 4-9=0/3637, 5-9=-925/0, 5-8=0/1179, 3-9=-870/0, 3-10=0/1127

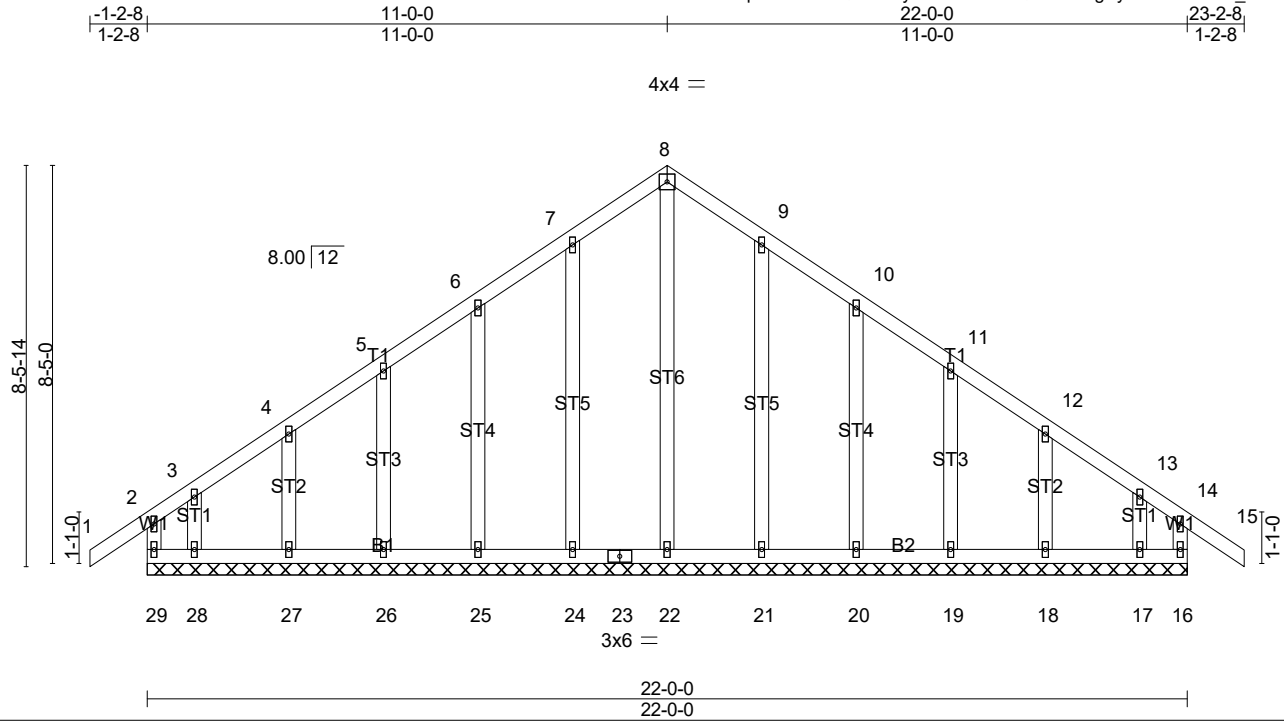
NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) 1138 lb down at 1-11-4, 1138 lb down at 3-11-4, 1138 lb down at 5-11-4, 1138 lb down at 7-11-4, and 1138 lb down at 9-11-4, and 1138 lb down at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	GR2	Common Girder	1	2	Job Reference (optional)

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 11-15=-20
Concentrated Loads (lb)
Vert: 8=-1138(F) 19=-1138(F) 20=-1138(F) 21=-1138(F) 22=-1138(F) 23=-1138(F)



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00 15 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.01 15 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) -0.00 16 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 148 lb	FT = 20%

LUMBER-

TOP CHORD	2x4	SP	2400F	2.0E
BOT CHORD	2x4	SP	2400F	2.0E
WEBS	2x4	SP	No.3	
OTHERS	2x4	SP	No.3	

BRACING-

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

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

REACTIONS.

All bearings 22-0-0.

(lb) - Max Horz 29=-156(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17

Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BC DL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17.
- 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.

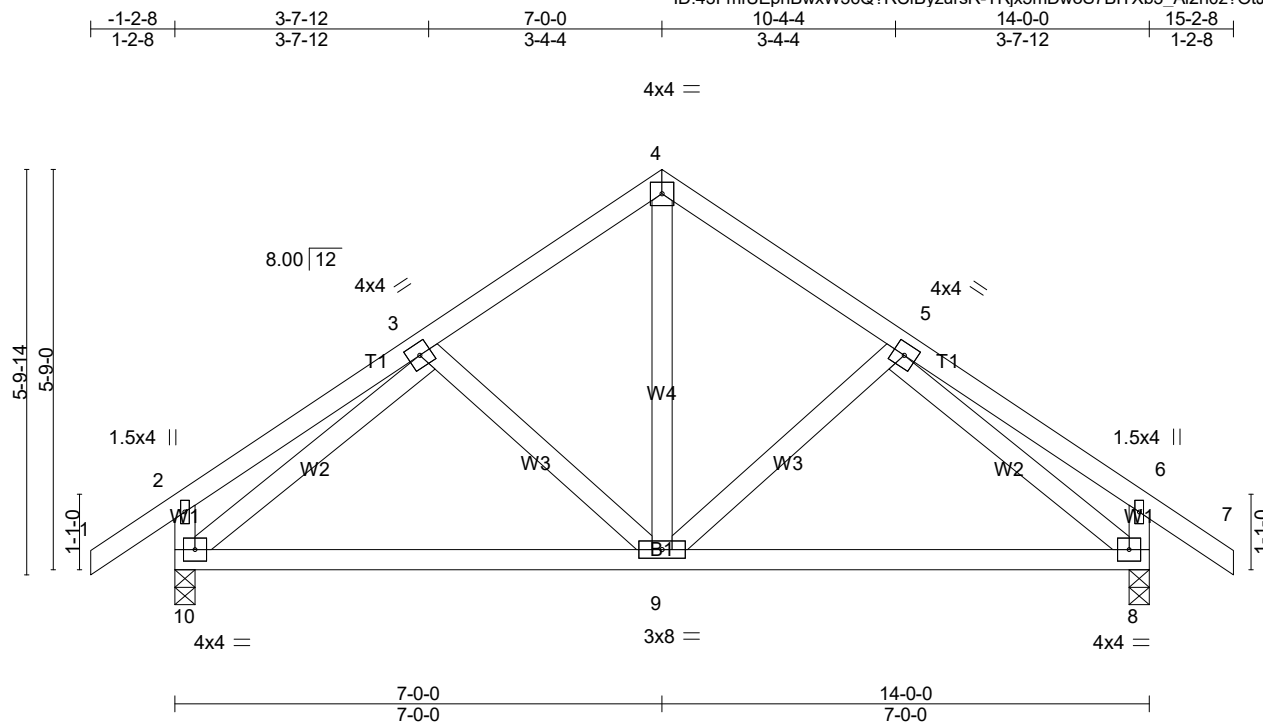
LOAD CASE(S) Standard

Job 28455	Truss T1	Truss Type Common	Qty 5	Ply 1	Freedom Const\Green Job Reference (optional)
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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.31	Vert(LL)	-0.03	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.06	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00	9	>999	240	Weight: 86 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 10=630/0-3-8 (min. 0-1-8), 8=630/0-3-8 (min. 0-1-8)
 Max Horz 10=-112(LC 6)
 Max Uplift 10=-17(LC 8), 8=-17(LC 8)

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

TOP CHORD 3-4=-491/33, 4-5=-491/33
 BOT CHORD 9-10=0/442, 8-9=0/431
 WEBS 4-9=0/317, 3-10=-467/0, 5-8=-467/0

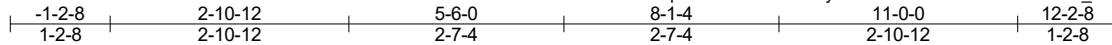
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

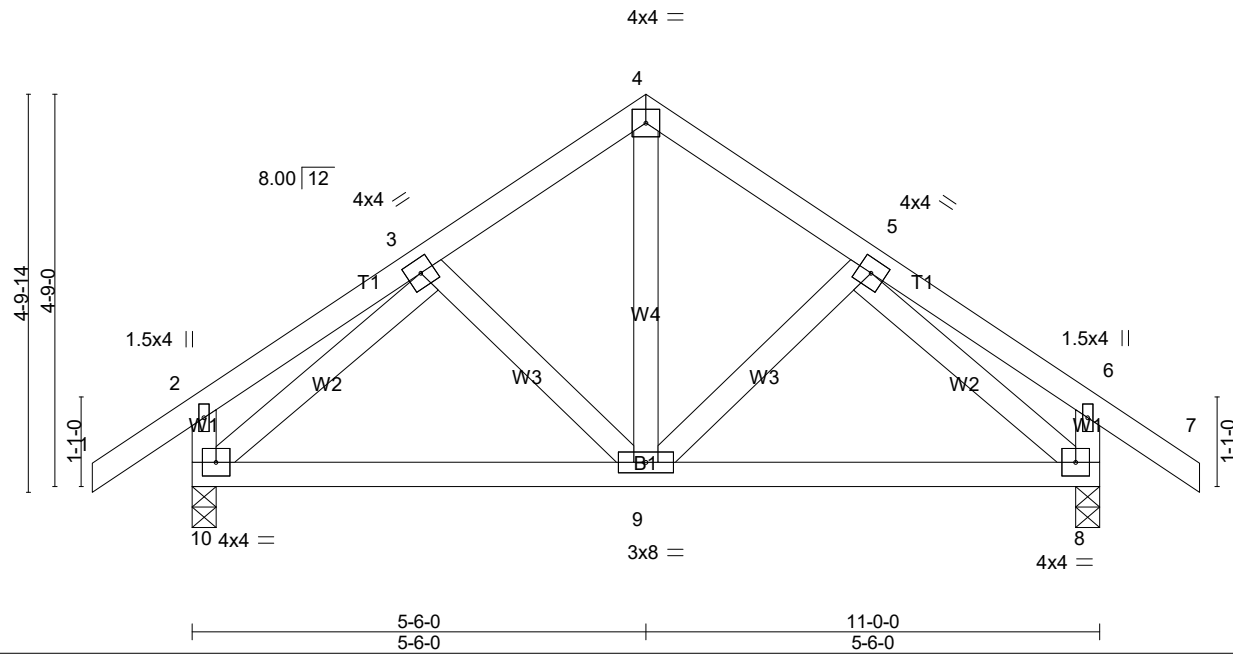
LOAD CASE(S) Standard

Job 28455	Truss T2	Truss Type Common	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.19	Vert(LL)	-0.01	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00	9	>999	240	Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 10=510/0-3-8 (min. 0-1-8), 8=510/0-3-8 (min. 0-1-8)
 Max Horz 10=-96(LC 6)
 Max Uplift 10=-20(LC 8), 8=-20(LC 8)

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

TOP CHORD 3-4=-362/28, 4-5=-362/28
 BOT CHORD 9-10=0/318, 8-9=0/302
 WEBS 3-10=-368/0, 5-8=-368/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

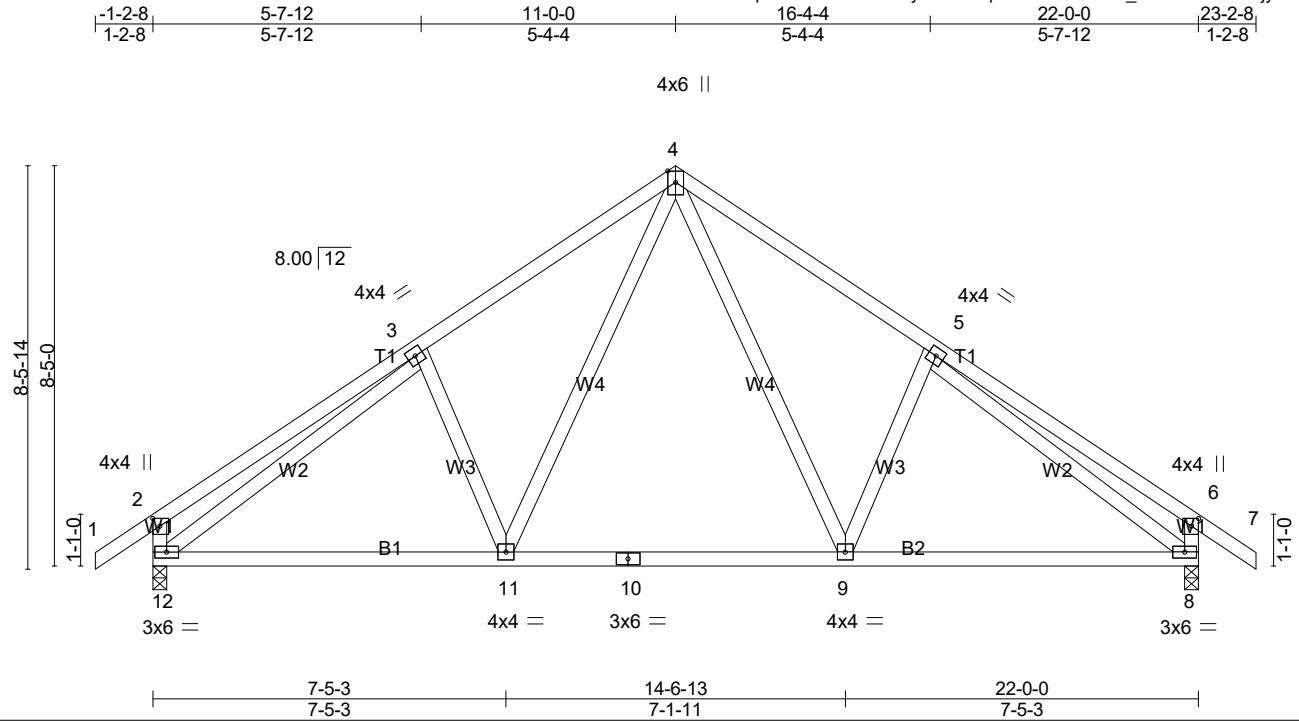
LOAD CASE(S) Standard

Job 28455	Truss T3	Truss Type Common	Qty 4	Ply 1	Freedom Const\Green
Job Reference (optional)					

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Scale: 1/4"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.12	9-11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.16	9-11	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.81	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.01	9-11	>999		
	Code IRC2018/TPI2014						Weight: 138 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 12=950/0-3-8 (min. 0-1-8), 8=950/0-3-8 (min. 0-1-8)

Max Horz 12=-156(LC 6)
Max Uplift 12=-10(LC 8), 8=-10(LC 8)
Max Grav 12=958(LC 13), 8=958(LC 14)

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

TOP CHORD 2-3=-348/61, 3-4=-1044/73, 4-5=-1044/73, 5-6=-348/61, 2-12=-388/78, 6-8=-388/78

BOT CHORD 11-12=0/943, 10-11=0/675, 9-10=0/675, 8-9=0/862

WEBS 4-9=-5/478, 4-11=-5/478, 3-12=-881/0, 5-8=-881/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

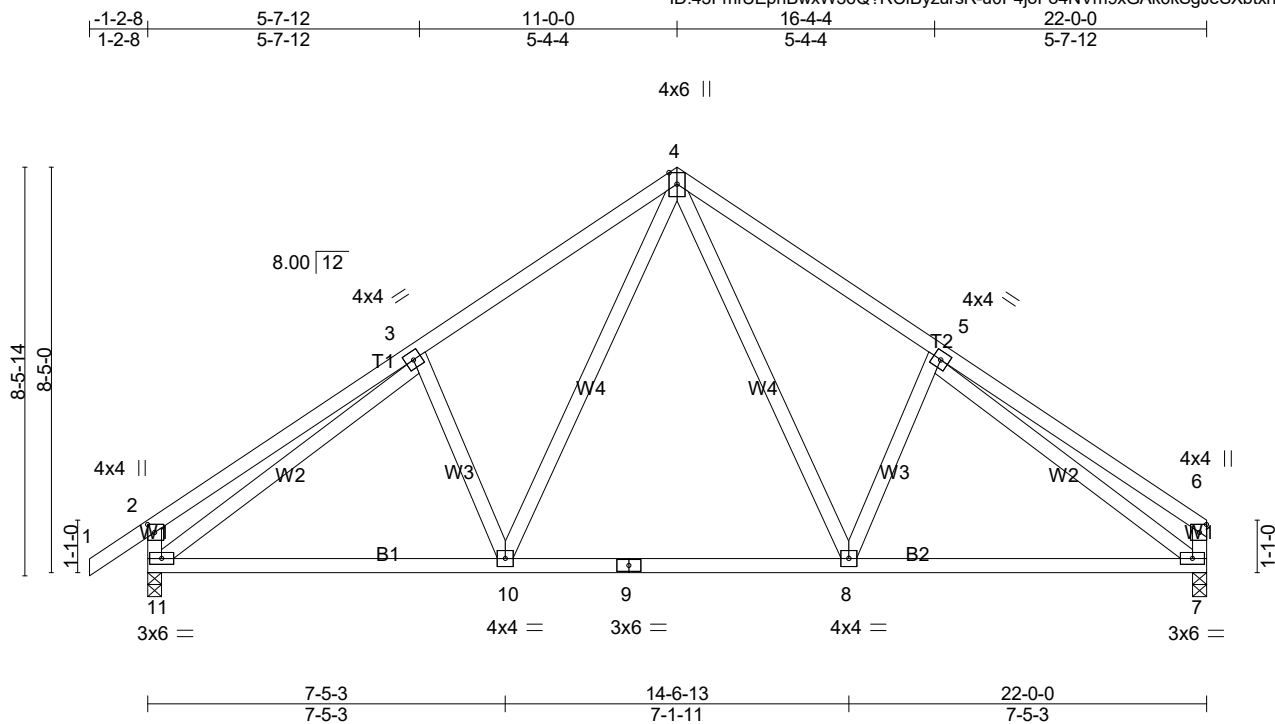


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.12 8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.16 8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.02 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.01 8-10	>999	240	Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

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

REACTIONS.

(lb/size) 11=952/0-3-8 (min. 0-1-8), 7=866/0-3-8 (min. 0-1-8)
 Max Horz 11=152(LC 7)
 Max Uplift 11=-10(LC 8)
 Max Grav 11=960(LC 13), 7=884(LC 14)

FORCES.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-348/61, 3-4=-1047/74, 4-5=-1054/75, 5-6=-350/54, 2-11=-388/78,
6-7=-300/42
BOT CHORD 10-11=0/937, 9-10=0/670, 8-9=0/670, 7-8=0/863
WEBS 4-8=-7/488, 4-10=-5/478, 3-11=-885/0, 5-7=-885/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

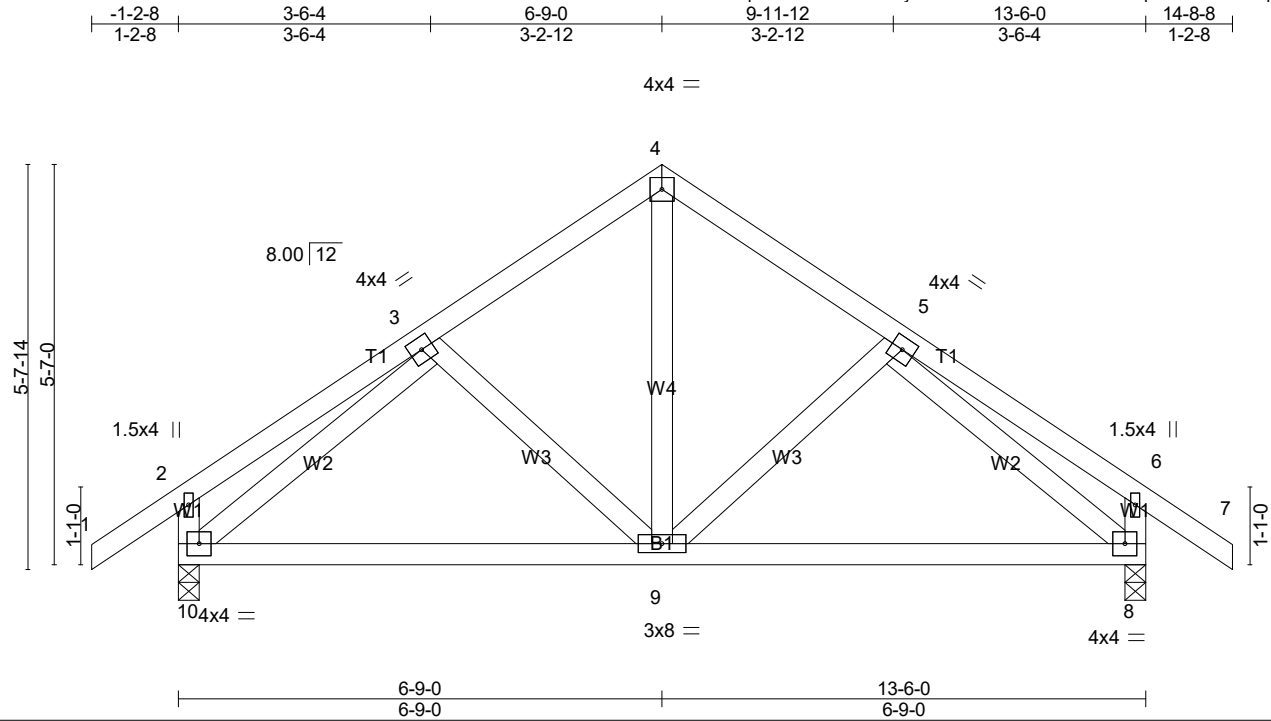
LOAD CASE(S) Standard

Job 28455	Truss T5	Truss Type Common	Qty 1	Ply 1	Freedom Const\Green Job Reference (optional)
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Scale: 3/8"=1'

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.29	Vert(LL)	-0.03	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.05	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00	9	>999	240	Weight: 83 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 10=610/0-3-8 (min. 0-1-8), 8=610/0-3-8 (min. 0-1-8)
 Max Horz 10=110(LC 7)
 Max Uplift 10=-18(LC 8), 8=-18(LC 8)

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

TOP CHORD 3-4=-470/33, 4-5=-470/33
 BOT CHORD 9-10=0/421, 8-9=0/409
 WEBS 4-9=0/302, 3-10=-451/0, 5-8=-451/0

NOTES-

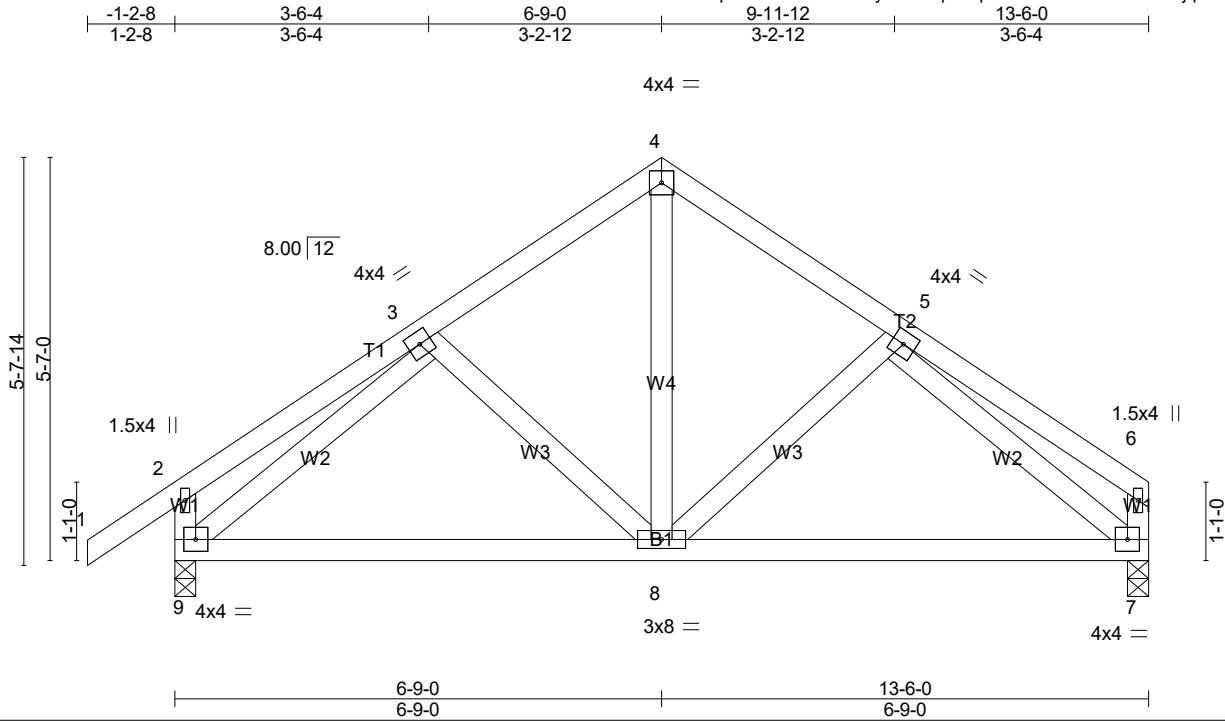
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T6	Truss Type Common	Qty 3	Ply 1	Freedom Const\Green
Job Reference (optional)					

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(LL) -0.03 7-8 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Vert(CT) -0.05 8-9 >999 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.01 7 n/a n/a		
			Wind(LL) 0.00 8 >999 240	Weight: 81 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 9=614/0-3-8 (min. 0-1-8), 7=524/0-3-8 (min. 0-1-8)
Max Horz 9=106(LC 7)
Max Uplift 9=-18(LC 8)

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

TOP CHORD 3-4=-476/33, 4-5=-477/34
BOT CHORD 8-9=0/417, 7-8=0/426
WEBS 4-8=0/306, 3-9=-457/0, 5-7=-431/4

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T7	Truss Type FAN	Qty 8	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

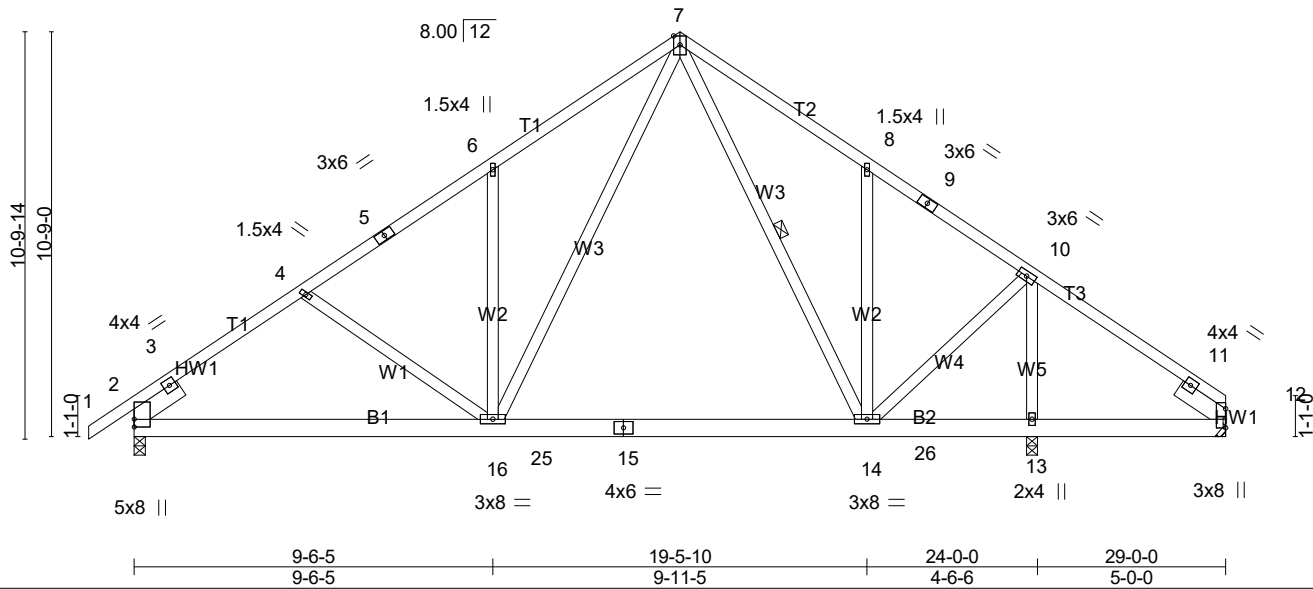
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:03 2025 Page 1

ID:43FmfUEpnBwxW36Q?RCfByzursR-Ib4DMqHgNiuL0O?QFH9lyG?Cou?ufpHRfISKJzgep6

1-2-8	4-6-11	9-6-5	14-6-0	19-5-10	24-5-5	29-0-0
1-2-8	4-6-11	4-11-10	4-11-10	4-11-10	4-11-10	4-6-11

4x6 ||

Scale = 1:61.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.13 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.20 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	-0.02 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.02 14-16	>999	240		
								Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 W3: 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 -D 1-6-0, Right 2x6 SP No.1 -D 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-14

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

REACTIONS.

(lb/size) 2=1030/0-3-8 (min. 0-1-8), 12=213/Mechanical, 13=1149/0-3-8 (min. 0-1-8)
 Max Horz 2=173(LC 7)
 Max Uplift 2=-4(LC 8)
 Max Grav 2=1039(LC 13), 12=250(LC 20), 13=1205(LC 14)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-412/0, 3-4=-1273/21, 4-5=-1106/9, 5-6=-1059/28, 6-7=-1167/120,
 7-8=-808/129, 8-9=-666/43, 9-10=-775/17
 BOT CHORD 2-16=0/1100, 16-25=0/617, 15-25=0/617, 15-26=0/617, 14-26=0/617
 WEBS 6-16=-339/107, 8-14=-289/94, 7-16=-31/827, 10-14=0/803, 10-13=-1146/6

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T8	Truss Type COMMON	Qty 2	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

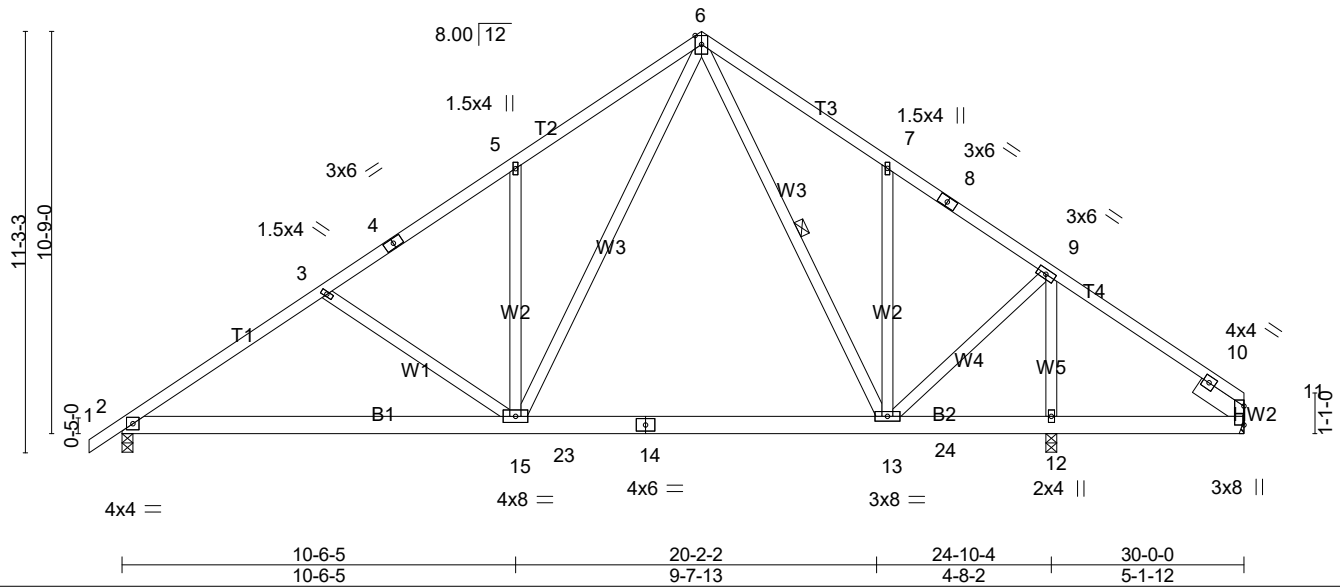
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:04 2025 Page 1

ID:43FmfUEpnBwxW36Q?RCfByzursR-moebZ9lJ8c0CeYaxzyoOq9oBrCD9d53RgJU?tmzesp5

-0-10-8	5-5-13	10-6-5	15-6-0	20-5-10	24-10-4	30-0-0
0-10-8	5-5-13	5-0-8	4-11-11	4-11-10	4-4-10	5-1-12

4x6 ||

Scale = 1:61.6

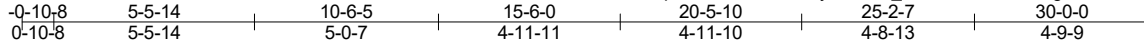


Job 28455	Truss T9	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Freedom Const\Green Job Reference (optional)
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C&R Building Supply, Autryville NC

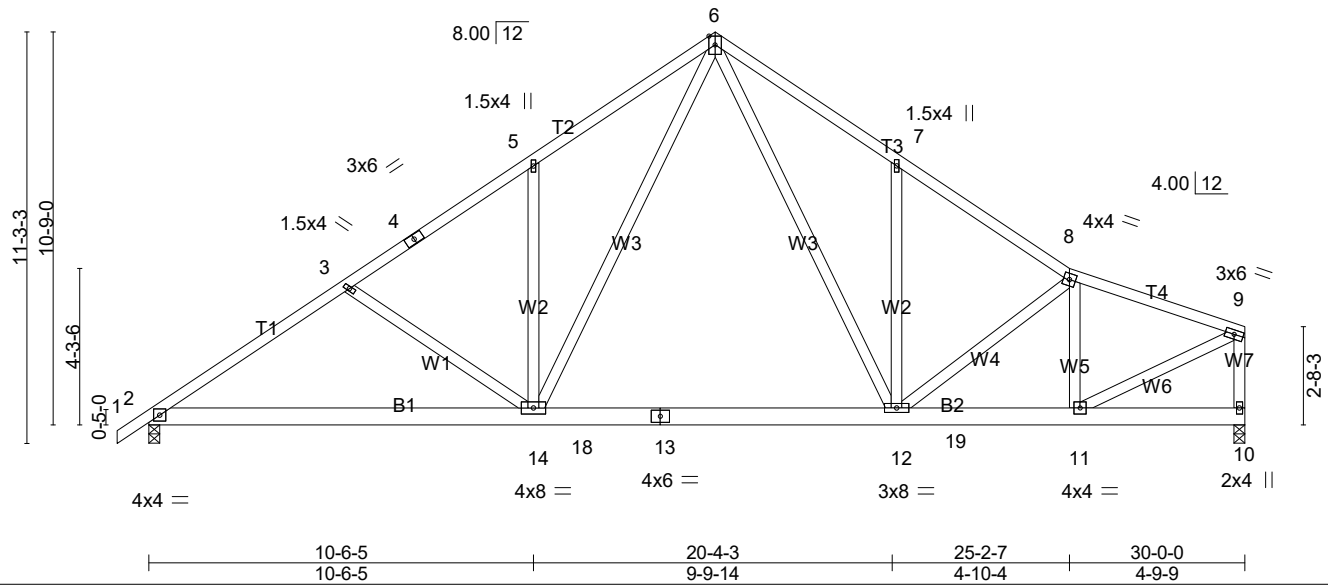
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:05 2025 Page 1

ID:43FmfUEpnBwxW36Q?RCfByzursR-E_CznVJxvw83Gi88XgJdNNLJTcYzMW5avzEYPCzegp4



4x6 ||

Scale = 1:63.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.14 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.22 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.03 14-17	>999	240		
								Weight: 210 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 2=1247/0-3-8 (min. 0-1-8), 10=1193/0-3-8 (min. 0-1-8)

Max Horz 2=197(LC 7)

Max Grav 2=1264(LC 13), 10=1197(LC 15)

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

TOP CHORD 2-3=-1854/13, 3-4=-1626/0, 4-5=-1551/17, 5-6=-1650/110, 6-7=-1555/119, 7-8=-1517/29, 8-9=-1319/6, 9-10=-1131/0

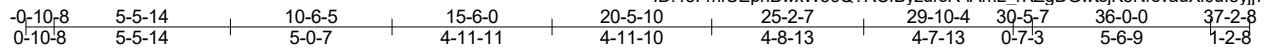
BOT CHORD 2-14=0/1626, 14-18=0/970, 13-18=0/970, 13-19=0/970, 12-19=0/970, 11-12=0/1243

WEBS 3-14=-308/82, 5-14=-306/107, 6-14=-25/950, 6-12=-44/782, 7-12=-314/104, 8-11=-621/24, 9-11=0/1308

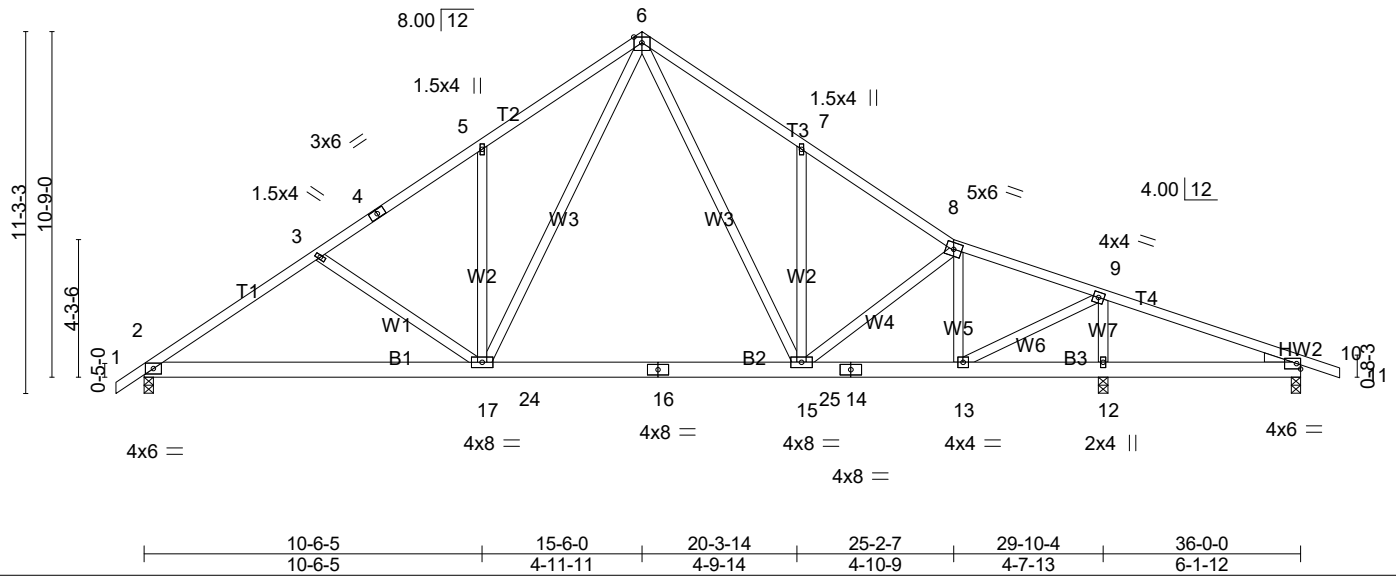
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

 $5 \times 6 =$

Scale = 1:71.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.14 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.21 15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.03 17-20	>999	240	Weight: 237 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2

WEDGE

Right: 2x4 SP No.3

REACTIONS.

(lb/size) 2=1216/0-3-8 (min. 0-1-8), 12=1614/0-3-8 (min. 0-1-15), 10=174/0-3-8 (min. 0-1-8)
 Max Horz 2=-182(LC 6)
 Max Uplift 10=-20(LC 8)
 Max Grav 2=1232(LC 13), 12=1618(LC 14), 10=209(LC 20)

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

TOP CHORD 2-3=-1796/12, 3-4=-1567/0, 4-5=-1493/17, 5-6=-1593/109, 6-7=-1438/118,
7-8=-1400/27, 8-9=-1082/7, 9-10=-15/346

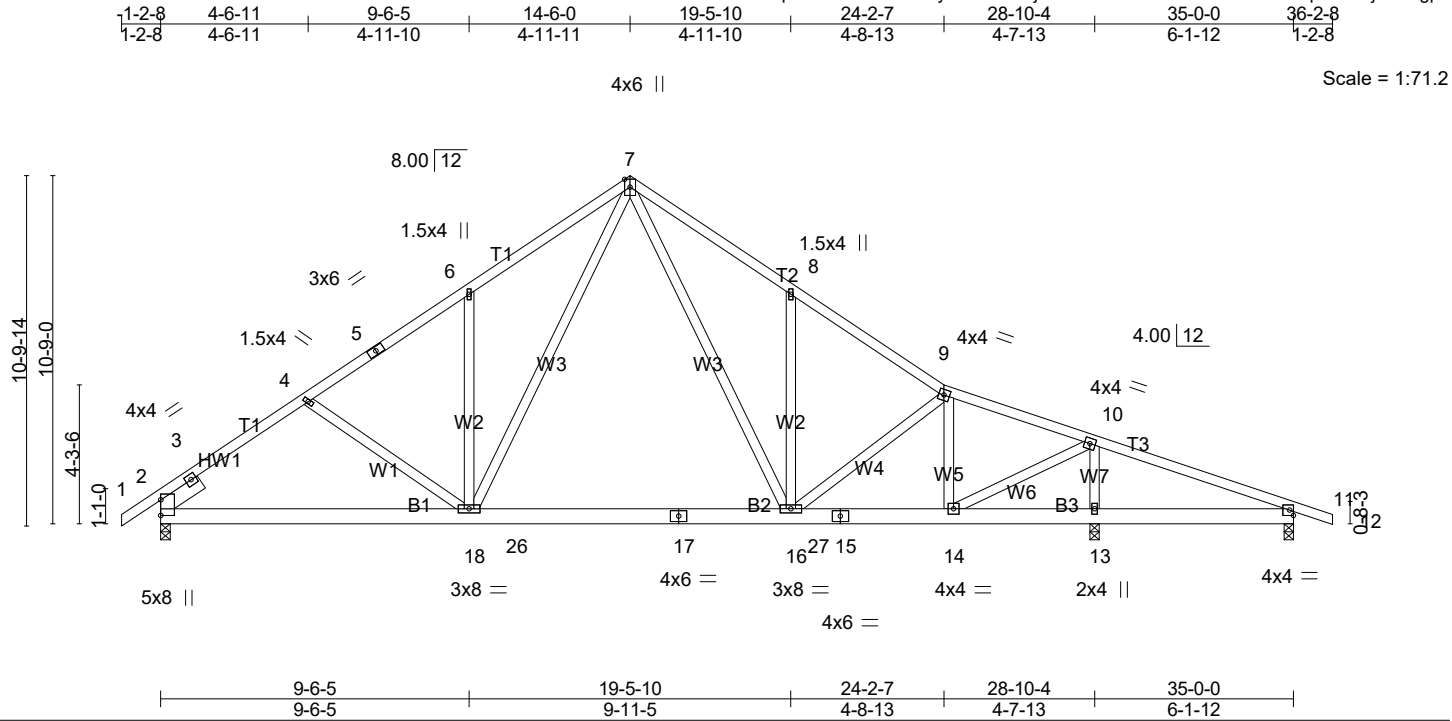
BOT CHORD 2-17=0/1584, 17-24=0/925, 16-24=0/925, 16-25=0/925, 15-25=0/925,
14-15=0/1004, 13-14=0/1004, 12-13=-274/41, 10-12=-274/41

WEBS 3-17=-308/82, 5-17=-307/107, 6-17=-25/953, 6-15=-43/674, 7-15=-322/105,
8-13=-714/18, 9-12=-1391/35, 9-13=0/1407

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=20ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" between the bottom chord and any other members, with BC DL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.15 16-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.24 16-18	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.03 16-18	>999	240	Weight: 236 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -D 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 2=1195/0-3-8 (min. 0-1-8), 13=1582/0-3-8 (min. 0-1-14), 11=168/0-3-8 (min. 0-1-8)

Max Horz 2=-176(LC 6)
Max Uplift 11=-19(LC 8)
Max Grav 2=1211(LC 13), 13=1595(LC 14), 11=206(LC 20)

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

TOP CHORD 2-3=-428/0, 3-4=-1536/15, 4-5=-1378/2, 5-6=-1331/22, 6-7=-1444/114,
7-8=-1375/118, 8-9=-1336/27, 9-10=-1022/6, 10-11=-20/373
BOT CHORD 2-18=0/1315, 18-26=0/861, 17-26=0/861, 17-27=0/861, 16-27=0/861,
15-16=0/942, 14-15=0/942, 13-14=-306/46, 11-13=-306/46
WEBS 6-18=-347/107, 7-18=-31/806, 7-16=-39/696, 8-16=-323/105, 9-14=-710/19,
10-14=0/1362, 10-13=-1354/38

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T12	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

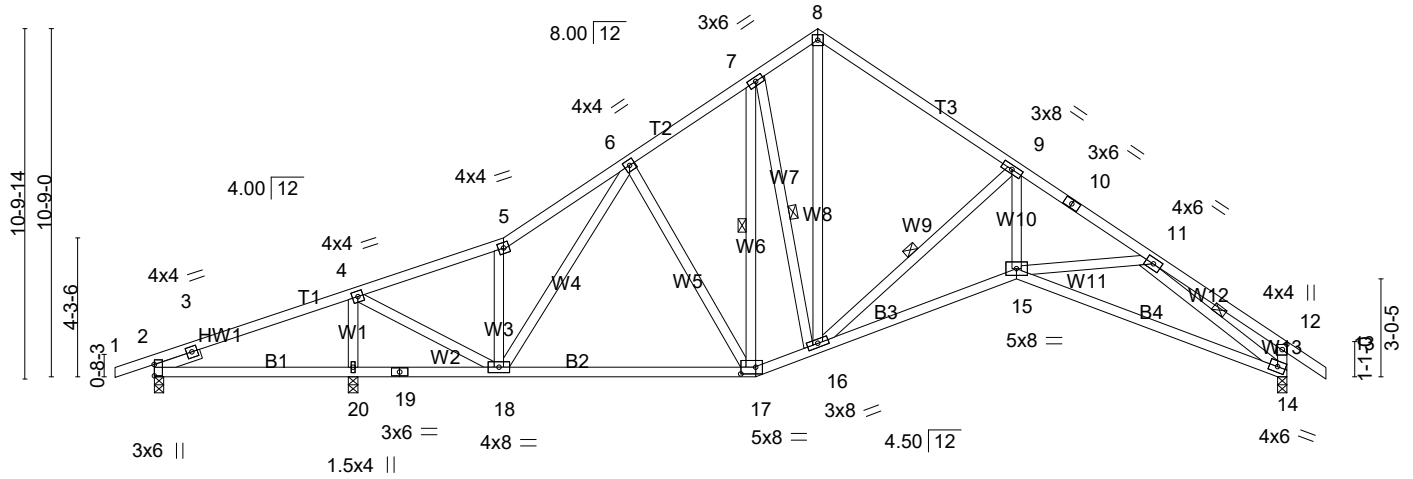
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ID:43FmfUEpnBwxW36Q?RCfByzursR-fZu5PXLpCrWe7AtjCotK??zImpc1ZsY0bxSD0Xzgep1

1-2-8	6-1-12	10-9-9	14-8-5	18-7-0	20-6-0	26-7-12	30-8-2	35-0-0	36-2-8
1-2-8	6-1-12	4-7-13	3-10-11	3-10-11	1-11-0	6-1-12	4-0-6	4-3-14	1-2-8

4x4 =

Scale = 1:71.2



6-1-12	10-9-9	18-7-0	20-6-0	26-7-12	35-0-0
6-1-12	4-7-13	7-9-7	1-11-0	6-1-12	8-4-4

Plate Offsets (X,Y)-- [2:Edge,0-0-1], [12:0-2-0,0-1-12], [17:0-5-8,0-2-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.66	Vert(LL)	-0.12 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.31	Vert(CT)	-0.26 14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.62	Horz(CT)	0.15 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.05 15	>999	240	Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -D 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-17, 7-16, 9-16, 11-14

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

REACTIONS. (lb/size) 2=107/0-3-8 (min. 0-1-8), 20=1651/0-3-8 (min. 0-1-8), 14=1185/0-3-8 (min. 0-1-8)
 Max Horz 2=194(LC 7)
 Max Uplift 2=-32(LC 4), 14=-5(LC 8)
 Max Grav 2=179(LC 19), 20=1651(LC 1), 14=1185(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=0/490, 4-5=-942/9, 5-6=-1078/68, 6-7=-1048/76, 7-8=-949/87,
 8-9=-1061/74, 9-10=-2285/0, 10-11=-2395/0, 11-12=-449/12, 12-14=-450/49
 BOT CHORD 2-20=-449/36, 19-20=-449/36, 18-19=-449/36, 17-18=0/906, 16-17=0/868,
 15-16=0/2118, 14-15=0/1905
 WEBS 4-20=-1488/8, 4-18=0/1404, 5-18=-476/69, 8-16=-25/751, 9-16=-1578/0,
 9-15=0/1497, 11-14=-1961/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 14 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 100 lb uplift at joint(s) 2, 14.
- 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	T12	ROOF SPECIAL	2	1	Job Reference (optional)

NOTES-
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T13	Truss Type Roof Special	Qty 8	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

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ID:43FmfUEpnBwxW36Q?RCfByzursR-7ISUctMRz8eUkJSvmVOZXDWwWDyFIJhAqbCmYzzegp0

1-2-8	6-1-12	10-9-9	14-8-5	18-7-0	20-6-0	26-7-12	30-8-2	35-0-0
1-2-8	6-1-12	4-7-13	3-10-11	3-10-11	1-11-0	6-1-12	4-0-6	4-3-14

4x4 =

Scale = 1:69.1

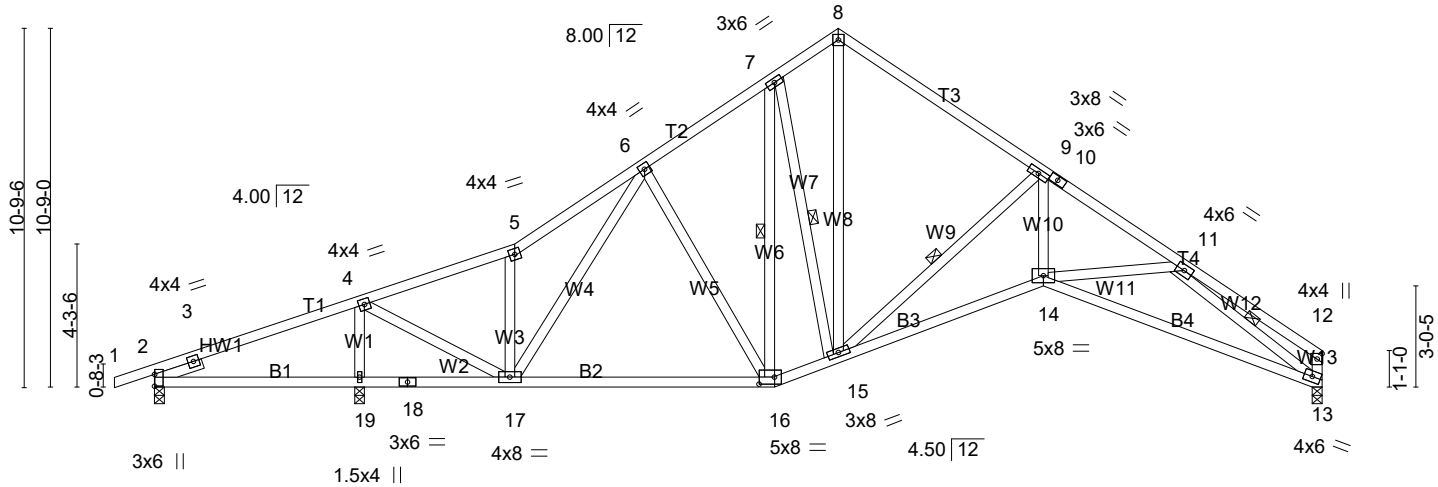


Plate Offsets (X,Y)-- [2:Edge,0-0-1], [16:0-5-8,0-2-8]

LOADING (psf)	SPACING-		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66		Vert(LL)	-0.12 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31		Vert(CT)	-0.26 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63		Horz(CT)	0.15 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06 14	>999	240		
									Weight: 228 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -D 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-16, 7-15, 9-15, 11-13

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

REACTIONS. (lb/size) 2=105/0-3-8 (min. 0-1-8), 19=1655/0-3-8 (min. 0-1-8), 13=1101/0-3-8 (min. 0-1-8)
 Max Horz 2=189(LC 7)
 Max Uplift 2=-33(LC 20)
 Max Grav 2=178(LC 19), 19=1655(LC 1), 13=1101(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-0/495, 4-5=-941/0, 5-6=-1078/56, 6-7=-1050/73, 7-8=-952/88,
 8-9=-1064/75, 9-10=-2299/0, 10-11=-2409/0, 11-12=-444/6, 12-13=-354/14
 BOT CHORD 2-19=-452/24, 18-19=-452/24, 17-18=-452/24, 16-17=0/907, 15-16=0/870,
 14-15=0/2128, 13-14=0/1935
 WEBS 4-19=-1492/16, 4-17=0/1409, 5-17=-476/66, 8-15=-25/753, 9-15=-1588/0,
 9-14=0/1513, 11-13=-1994/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 13 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 100 lb uplift at joint(s) 2.
- 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	T13	Roof Special	8	1	Job Reference (optional)

NOTES-
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T14	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

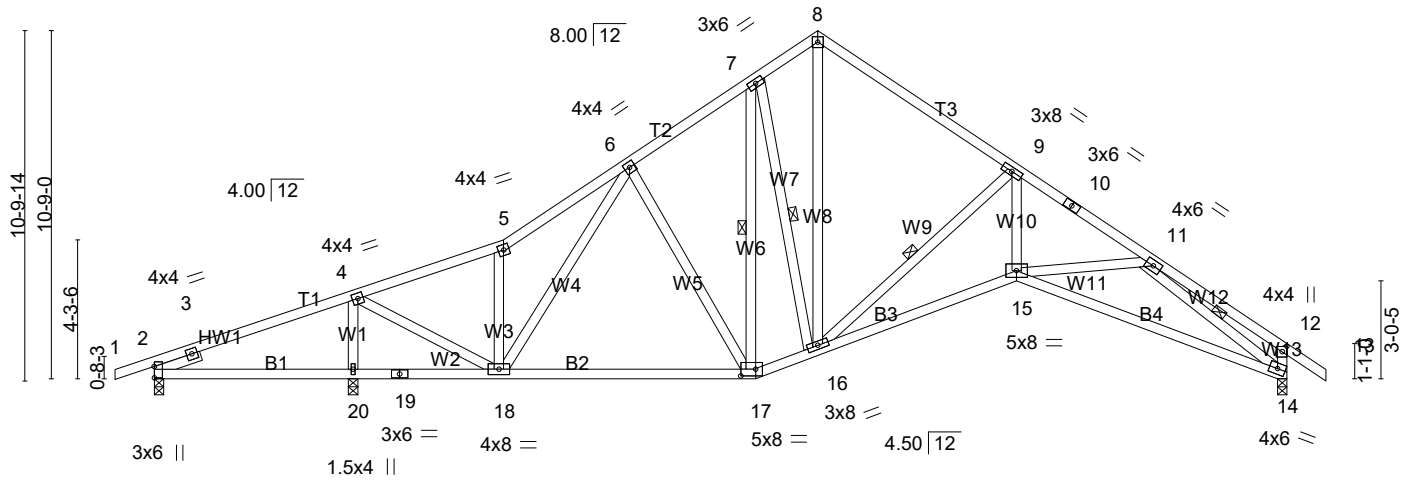
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:10 2025 Page 1

ID:43FmfUEpnbW36Q?RCfByzursR-by?sqDN3kSmLMT15KDvo4Q25GdHV1m2J2FxJ4Qzegp?

1-2-8	6-1-12	10-9-9	14-8-5	18-7-0	20-6-0	26-7-12	30-8-2	35-0-0	36-2-8
1-2-8	6-1-12	4-7-13	3-10-11	3-10-11	1-11-0	6-1-12	4-0-6	4-3-14	1-2-8

4x4 =

Scale = 1:71.2



6-1-12	10-9-9	18-7-0	20-6-0	26-7-12	35-0-0
6-1-12	4-7-13	7-9-7	1-11-0	6-1-12	8-4-4

Plate Offsets (X,Y)-- [2:Edge,0-0-1], [12:0-2-0,0-1-12], [17:0-5-8,0-2-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.66	Vert(LL)	-0.12 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.31	Vert(CT)	-0.26 14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.62	Horz(CT)	0.15 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.05 15	>999	240	Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -D 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-17, 7-16, 9-16, 11-14

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

REACTIONS. (lb/size) 2=107/0-3-8 (min. 0-1-8), 20=1651/0-3-8 (min. 0-1-8), 14=1185/0-3-8 (min. 0-1-8)
 Max Horz 2=194(LC 7)
 Max Uplift 2=-32(LC 4), 14=-5(LC 8)
 Max Grav 2=179(LC 19), 20=1651(LC 1), 14=1185(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=0/490, 4-5=-942/9, 5-6=-1078/68, 6-7=-1048/76, 7-8=-949/87,
 8-9=-1061/74, 9-10=-2285/0, 10-11=-2395/0, 11-12=-449/12, 12-14=-450/49
 BOT CHORD 2-20=-449/36, 19-20=-449/36, 18-19=-449/36, 17-18=0/906, 16-17=0/868,
 15-16=0/2118, 14-15=0/1905
 WEBS 4-20=-1488/8, 4-18=0/1404, 5-18=-476/69, 8-16=-25/751, 9-16=-1578/0,
 9-15=0/1497, 11-14=-1961/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 14 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 100 lb uplift at joint(s) 2, 14.
- 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Green
28455	T14	ROOF SPECIAL	1	1	Job Reference (optional)

NOTES-
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 28455	Truss T15	Truss Type FAN	Qty 6	Ply 1	Freedom Const\Green
Job Reference (optional)					

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1-2-8	4-6-11	9-6-5	14-6-0	19-5-10	24-5-5	29-0-0
1-2-8	4-6-11	4-11-10	4-11-10	4-11-10	4-11-10	4-6-11

4x6 ||

Scale = 1:61.2

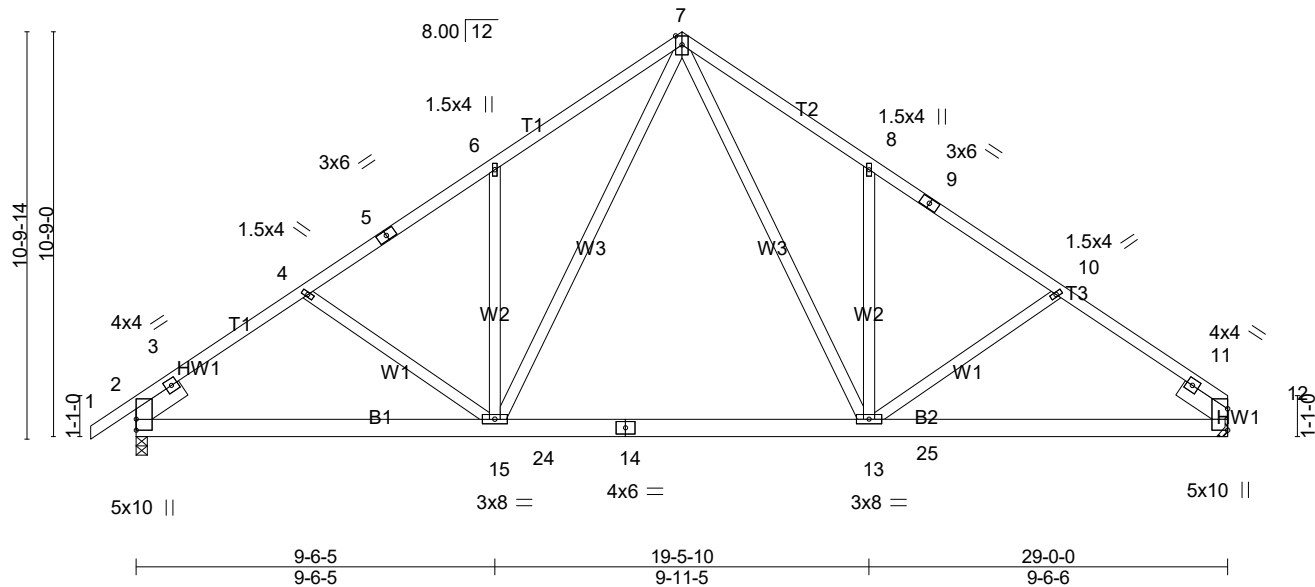


Plate Offsets (X,Y)-- [12:Edge,0-0-0], [12:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	-0.19 13-15	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(CT)	-0.29 13-15	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Horz(CT)	0.05 12	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.04 13-15	>999	240		
	Code IRC2018/TPI2014						Weight: 200 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 W3: 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 -D 1-6-0, Right 2x6 SP No.1 -D 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 2=1234/0-3-8 (min. 0-1-8), 12=1158/Mechanical
 Max Horz 2=173(LC 7)
 Max Grav 2=1251(LC 13), 12=1184(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-434/0, 3-4=-1603/17, 4-5=-1449/5, 5-6=-1402/24, 6-7=-1516/116,
 7-8=-1519/117, 8-9=-1365/25, 9-10=-1454/7, 10-11=-1610/0, 11-12=-457/0
 BOT CHORD 2-15=0/1361, 15-24=0/909, 14-24=0/909, 14-25=0/909, 13-25=0/909,
 12-13=0/1247
 WEBS 6-15=-349/107, 8-13=-347/107, 7-15=-35/819, 7-13=-37/825

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

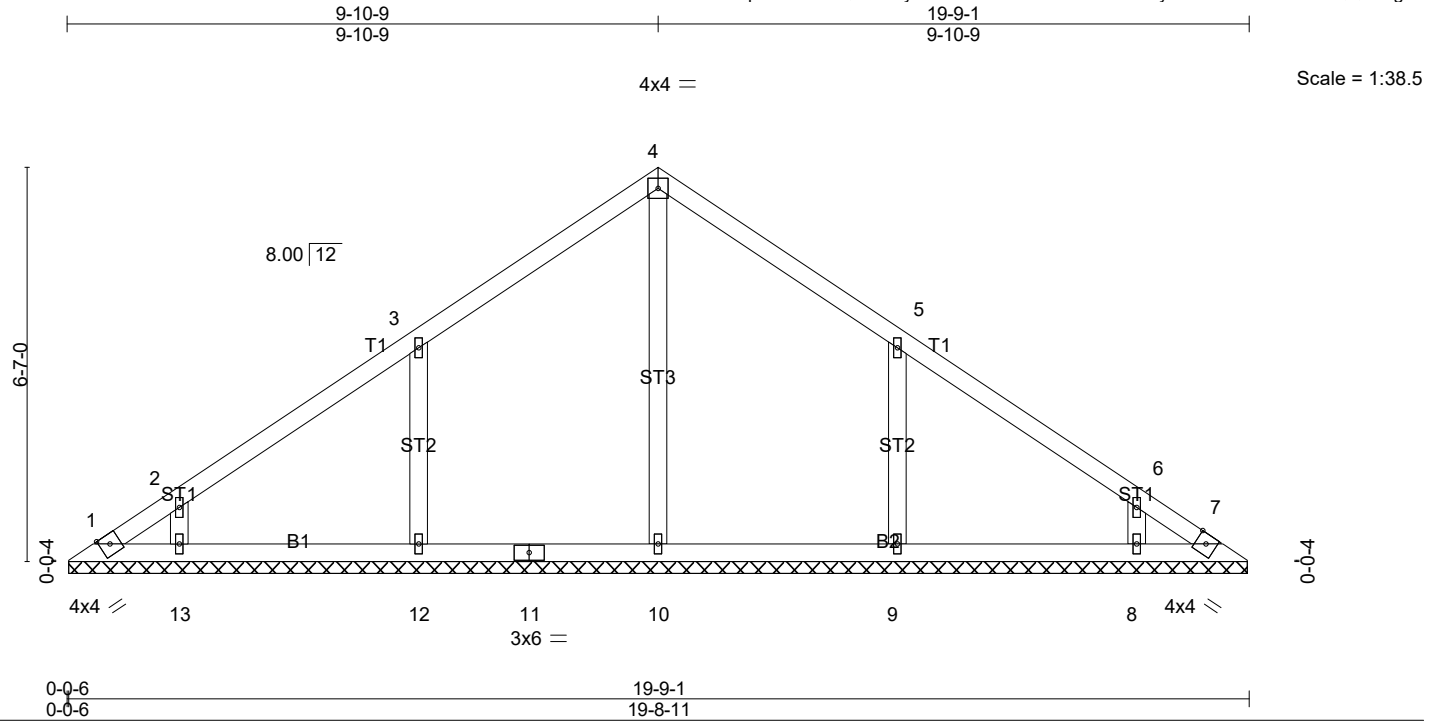
LOAD CASE(S) Standard

Job 28455	Truss V1	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 7 n/a n/a	Weight: 84 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD
 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 19-8-5.

(lb) - Max Horz 1=-103(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=250(LC 1), 12=351(LC 19), 13=261(LC 1), 9=351(LC 20), 8=261(LC 1)

FORCES.

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

WEBS

3-12=-268/87, 5-9=-268/87

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0'-0 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, 7, 12, 13, 9, 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.

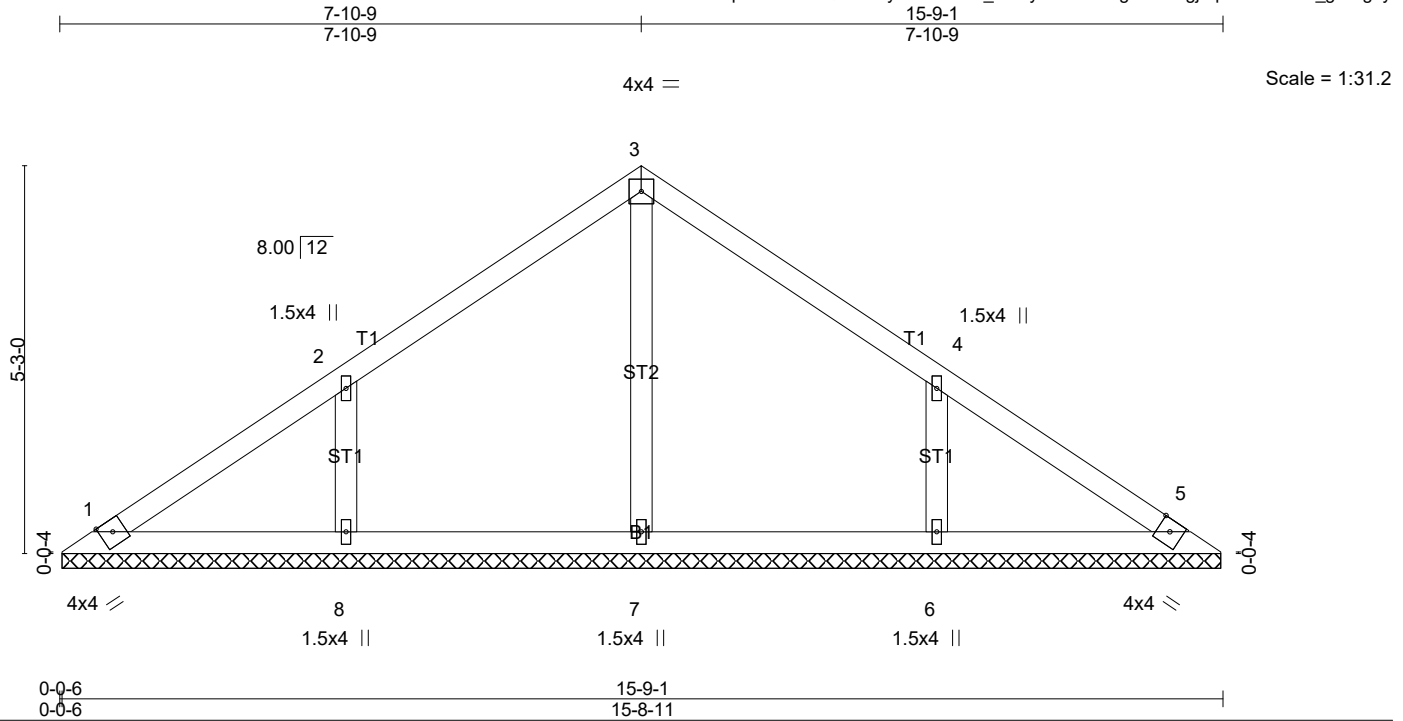
LOAD CASE(S) Standard

Job 28455	Truss V2	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 63 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 15-8-5.
(lb) - Max Horz 1=81(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 1),
8=350(LC 19), 6=350(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-264/84, 4-6=-264/84

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 8, 6.
- 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.

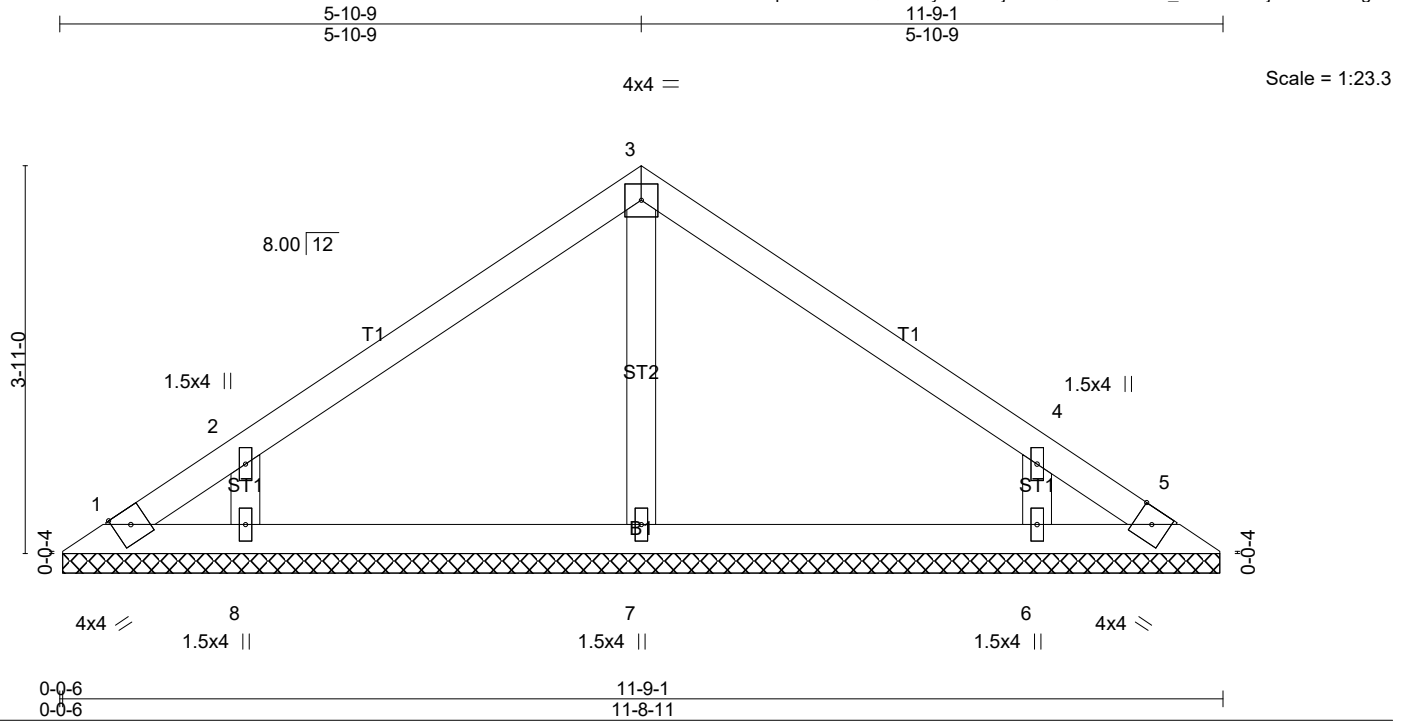
LOAD CASE(S) Standard

Job 28455	Truss V3	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
				Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-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 11-8-5.
(lb) - Max Horz 1=59(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 1),
8=297(LC 19), 6=297(LC 20)

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" 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, 8, 6.
- 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.

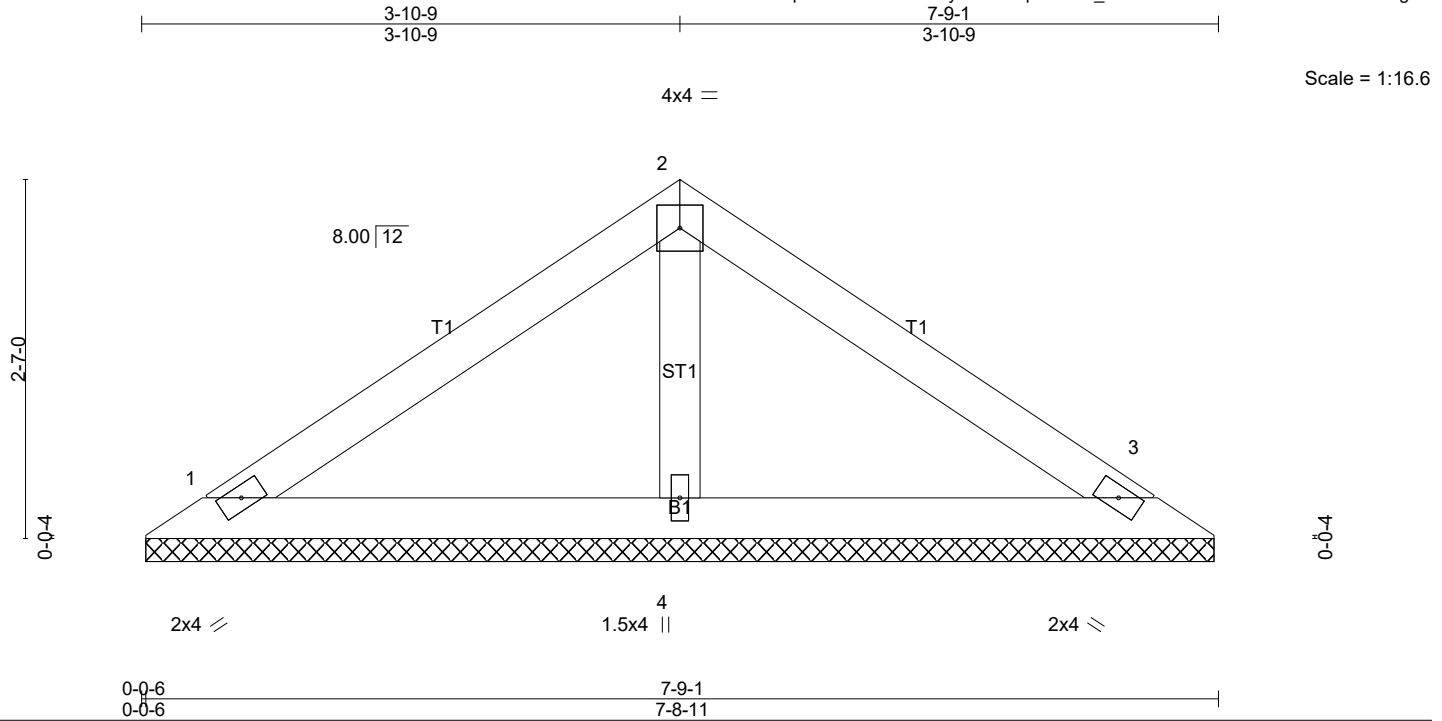
LOAD CASE(S) Standard

Job 28455	Truss V4	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

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0-0-6		7-9-1		7-8-11	
0-0-6		7-9-1		7-8-11	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
				Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD 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=147/7-8-5 (min. 0-1-8), 3=147/7-8-5 (min. 0-1-8), 4=250/7-8-5 (min. 0-1-8)
 Max Horz 1=-37(LC 6)
 Max Uplift 1=-10(LC 8), 3=-10(LC 8)

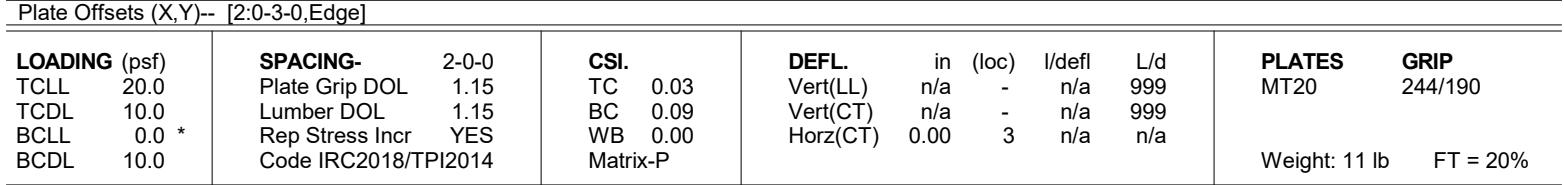
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 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

C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:16 2025 Page 1
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REACTIONS. (lb/size) 1=112/3-8-5 (min. 0-1-8), 3=112/3-8-5 (min. 0-1-8)
Max Horz 1=15(LC 7)

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" between the bottom chord and any other members.
- 6) 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

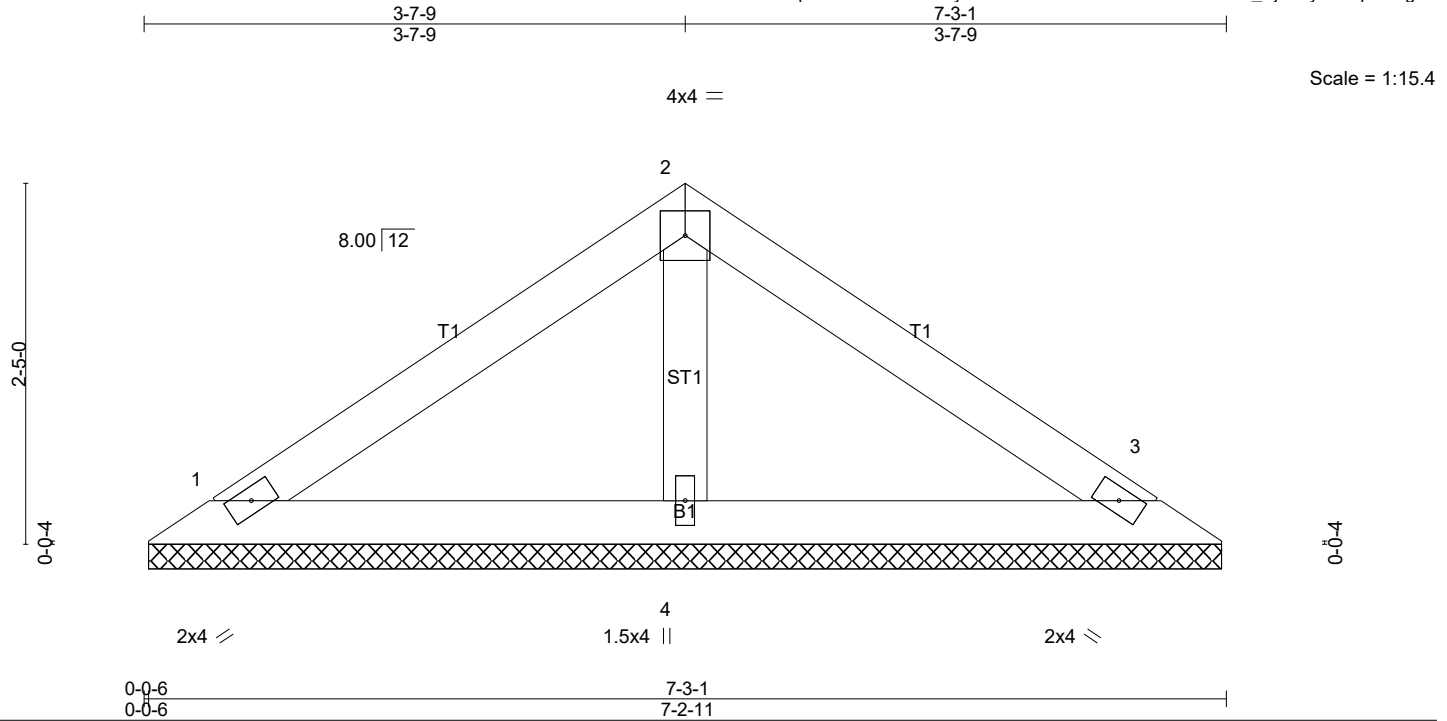
8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:17 2025 Page 1
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LOAD CASE(S) Standard

Job 28455	Truss V7	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-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=136/7-2-5 (min. 0-1-8), 3=136/7-2-5 (min. 0-1-8), 4=232/7-2-5 (min. 0-1-8)
Max Horz 1=34(LC 7)
Max Uplift 1=9(LC 8), 3=-9(LC 8)

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" 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, 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 28455	Truss V8	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:18 2025 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-MUUtVyT5rvnDJieeou2gP6NdHr4BvXhUuVtkLyegot		
			Job Reference (optional)		

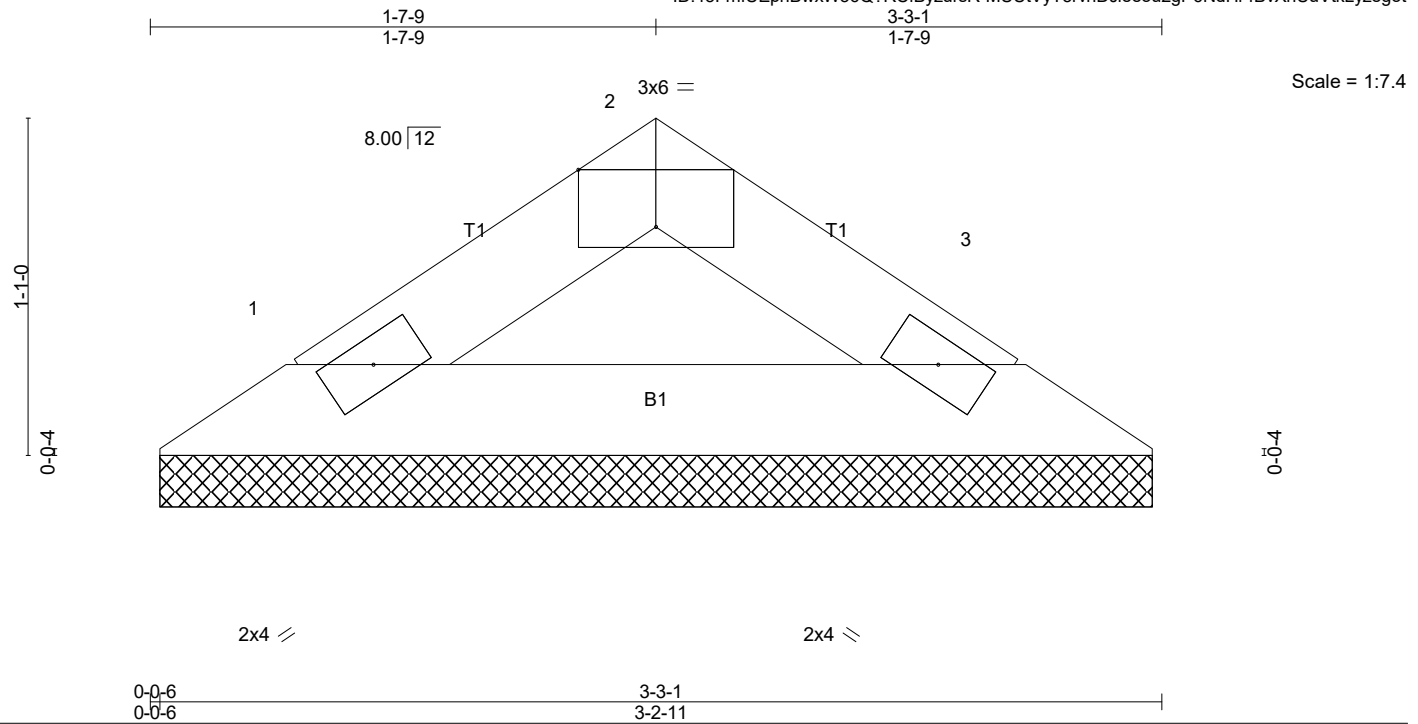


Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	Weight: 9 lb	FT = 20%
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins.
BOT CHORD 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=92/3-2-5 (min. 0-1-8), 3=92/3-2-5 (min. 0-1-8)
Max Horz 1=13(LC 6)

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

NOTES-

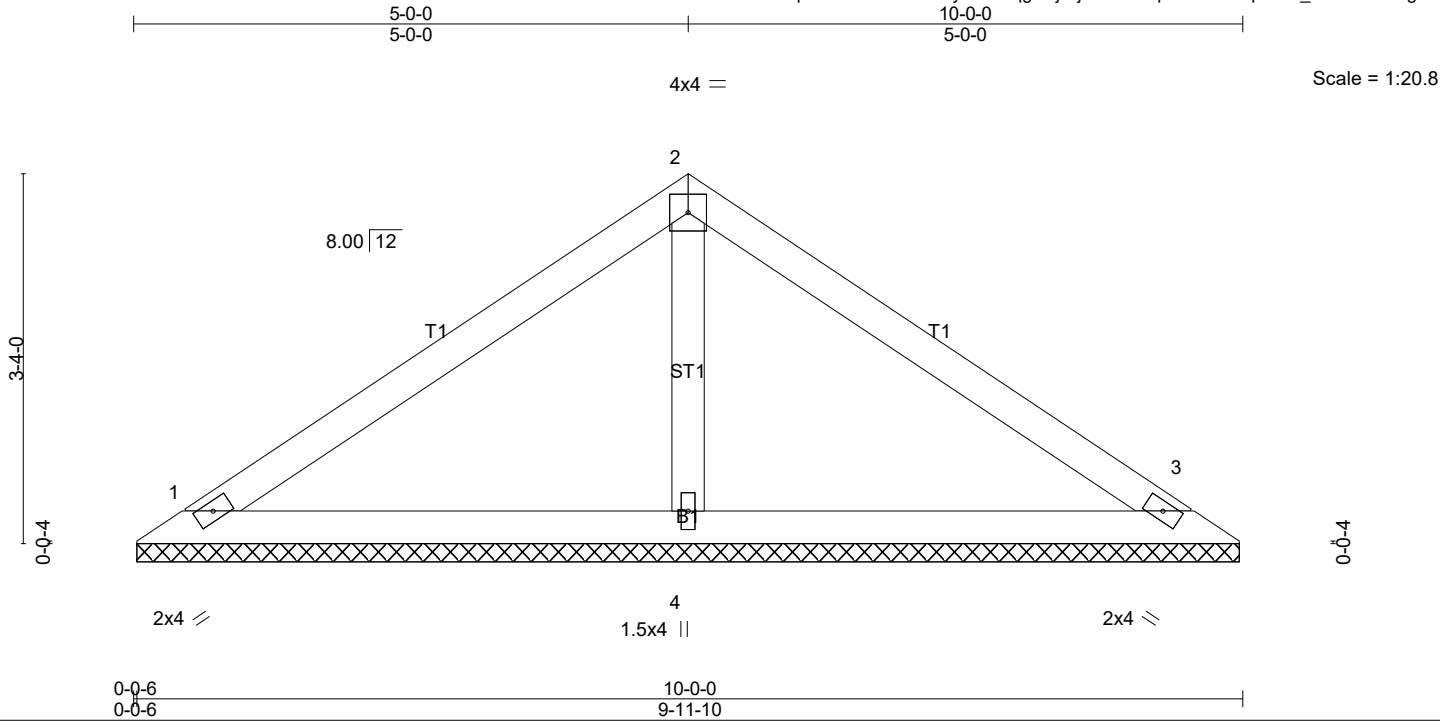
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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 28455	Truss V9	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	MT20	244/190		
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
										Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-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=178/9-11-4 (min. 0-1-8), 3=178/9-11-4 (min. 0-1-8), 4=367/9-11-4 (min. 0-1-8)
Max Horz 1=-50(LC 6)
Max Uplift 1=-7(LC 8), 3=-7(LC 8)

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

NOTES-

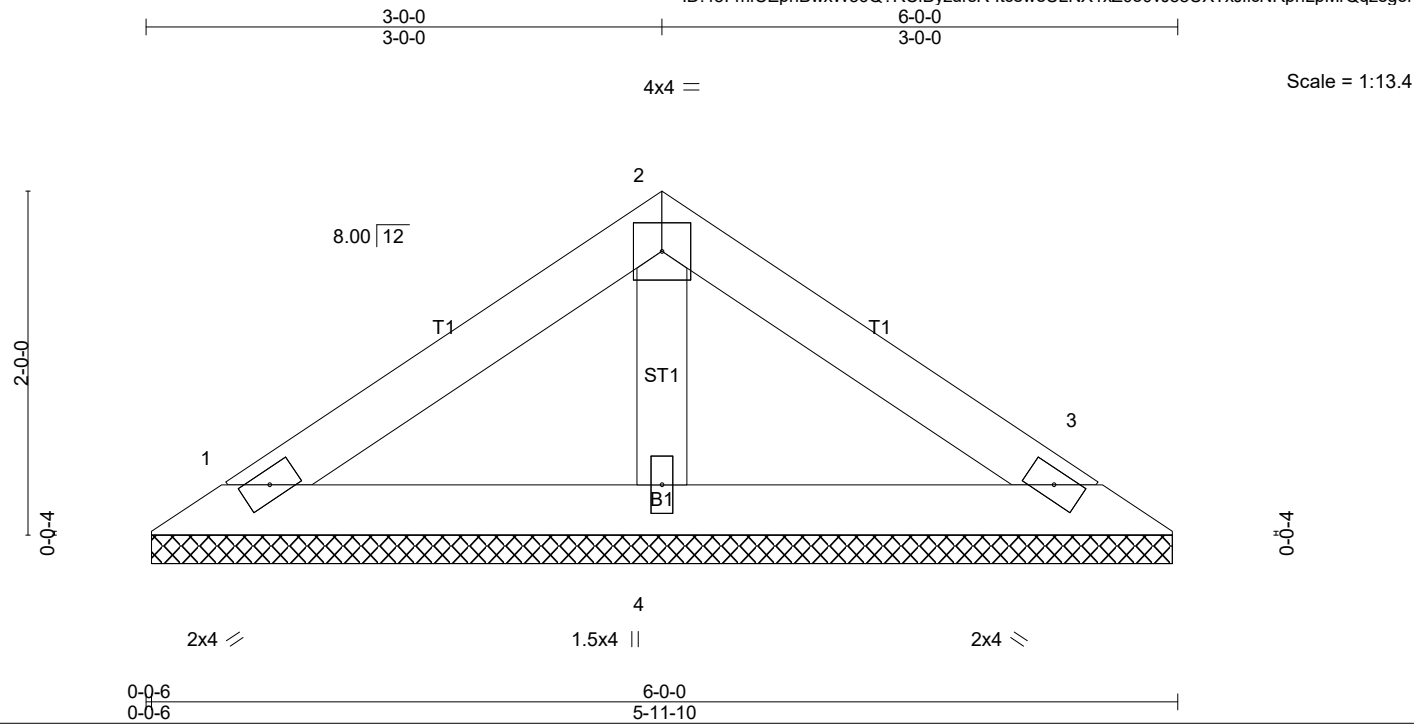
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0" 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, 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 28455	Truss V10	Truss Type Valley	Qty 1	Ply 1	Freedom Const\Green
Job Reference (optional)					

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Mon Mar 3 09:59:20 2025 Page 1
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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (lb/size) 1=109/5-11-4 (min. 0-1-8), 3=109/5-11-4 (min. 0-1-8), 4=185/5-11-4 (min. 0-1-8)
Max Horz 1=28(LC 7)
Max Uplift 1=-8(LC 8), 3=-8(LC 8)

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 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