

REPORT REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS

Re: J1139138
HC Homes Inc.

Tri-State Engineering, Inc.
12810 NE 178th Street
Suite 218
Woodinville, WA 98072
425.481.6601

The truss drawing(s) referenced below have been prepared by Tri-State Engineering under my direct supervision based on the parameters provided by The Truss Company (Sumner).

Pages or sheets covered by this seal: I14706707 thru I14706722

My license renewal date for the state of Washington is August 20, 2024.



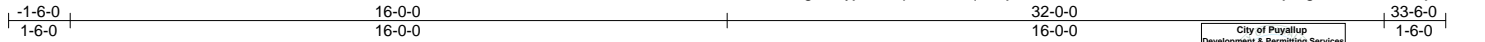
April 17, 2023

Terry Powell

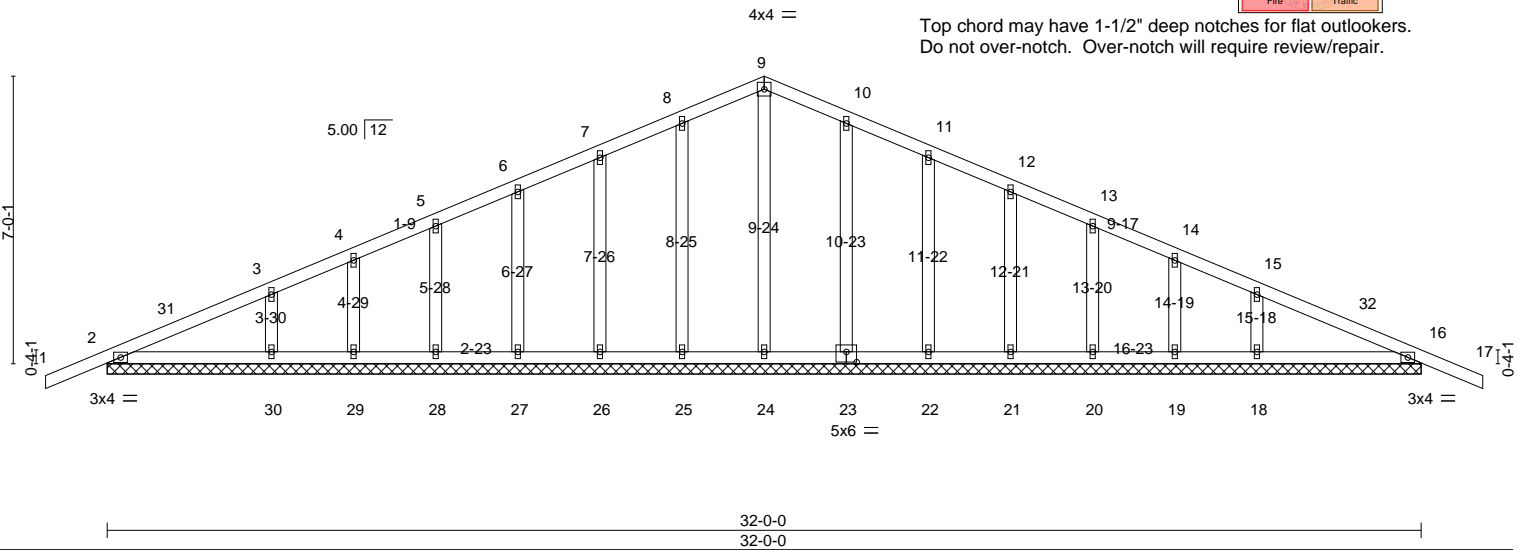
The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:39 2023 Page 1
ID:YLcgXvNjyDRbUpX6?FIHQ?zUJAK-vd?3xEXHrBsXmiAdZo5vktuXwkjbegeaxGDk4KzQkj



Scale = 1:56.1



Top chord may have 1-1/2" deep notches for flat outlookers. Do not over-notch. Over-notch will require review/repair.

Plate Offsets (X,Y)-- [23:0-3:0,0-3-0]									
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.14 BC 0.08 WB 0.13 Matrix-SH	Vert(LL) 0.00 Vert(CT) 0.01 Horz(CT) 0.00	17	n/r	120	90	MT20	185/148
TCDL 8.0 BCLL 0.0 * BCDL 7.0				17	n/r				
				16	n/a	n/a			
								Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 HF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 HF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 DF Stud	

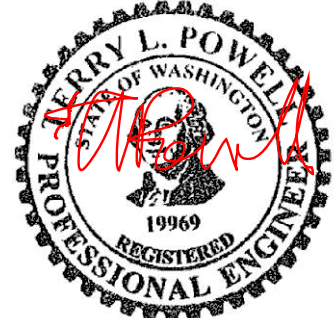
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 32-0-0.
(b) - Max Horz 2=71(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 23, 22, 21, 20, 19 except 2=258(LC 19), 30=286(LC 1), 18=286(LC 1), 16=258(LC 20)

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

- NOTES-** (13-14)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.8psf; BCCL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-8-6, Exterior(2N) 1-8-6 to 12-9-10, Corner(3R) 12-9-10 to 19-2-6, Exterior(2N) 19-2-6 to 30-3-10, Corner(3E) 30-3-10 to 33-6-0 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) 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) All dimensions given in feet-inches-sixteenths (FFI/SS) format.
 - 14) Notch 4-0-0 o.c.

LOAD CASE(S) Standard

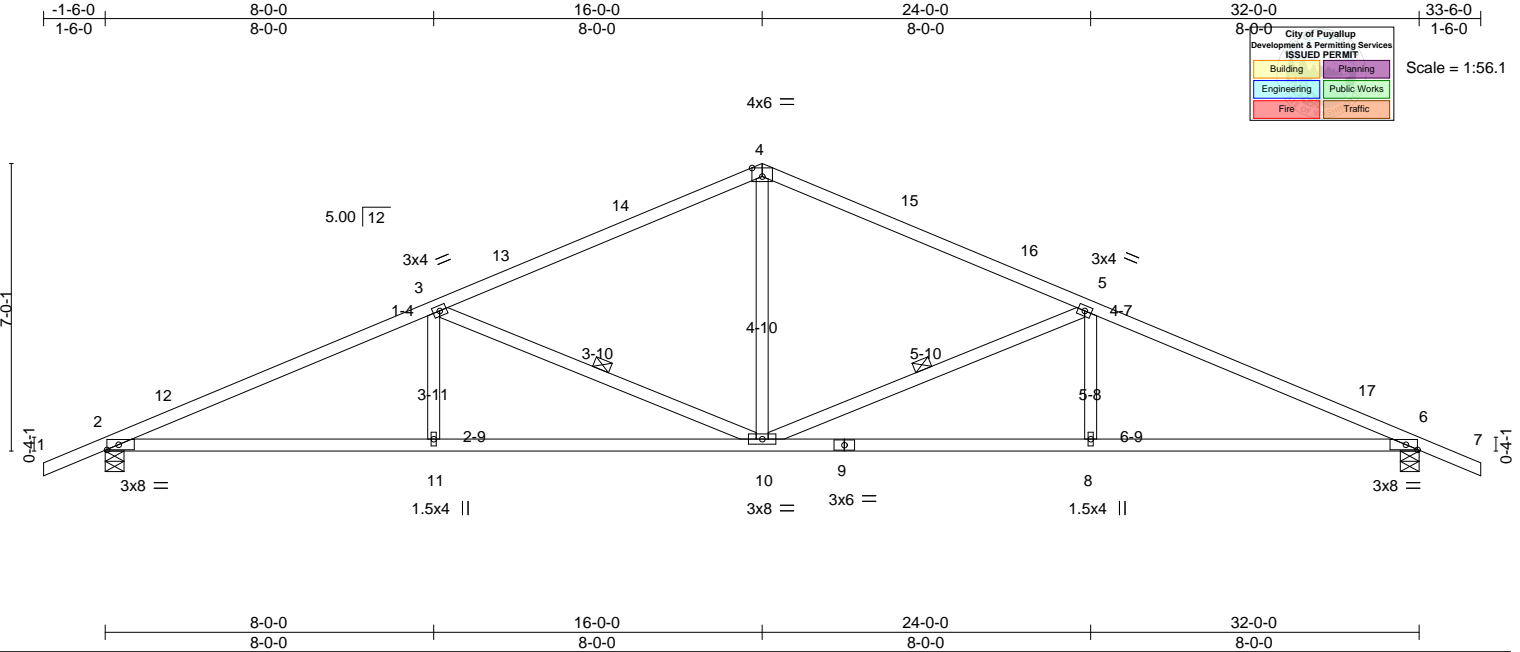


April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:40 2023 Page 1

ID:YLcgXvNjyDRbUpX6?FIHQ?zUjAK-NpYR8aYvcV_OOsIq7Vc8H4QW07v9N42k9wzIdmzQkjj



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	2.0-0	TC	0.95	Vert(LL)	-0.17	10	>999	360	MT20	185/148	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.30	8-10	>999	240			
TCDL	8.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.13	6	n/a	n/a			
BCDL	0.0 *	Code	IRC2018/TPI2014	Matrix-SH									
BCDL	7.0												

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10, 3-10

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

REACTIONS. (lb/size) 2=1376/0-5-8 (min. 0-2-4), 6=1376/0-5-8 (min. 0-2-4)
Max Horz 2=71(LC 13)
Max Uplift 2=46(LC 12), 6=46(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-2608/34, 3-12=-2514/61, 3-13=-1746/66, 13-14=-1635/80, 4-14=-1624/92, 4-15=-1624/92, 15-16=-1635/80, 5-16=-1746/66,
5-17=-2514/61, 6-17=-2608/34
BOT CHORD 2-11=-61/2319, 10-11=-61/2319, 9-10=0/2319, 8-9=0/2319, 6-8=0/2319
WEBS 4-10=0/781, 5-10=-1006/109, 5-8=0/284, 3-10=-1006/109, 3-11=0/284

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 12-9-10, Exterior(2R) 12-9-10 to 19-2-6, Interior(1) 19-2-6 to 30-3-10, Exterior(2E) 30-3-10 to 33-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 6.
 - 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.
 - 9) All dimensions given in feet-inches-sixteenths (FFI/ISS) format.

LOAD CASE(S) Standard



April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:41 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-s?6pMwZYnp6F?0K0hC7NplzhnXEb6XHOair9DzQkji

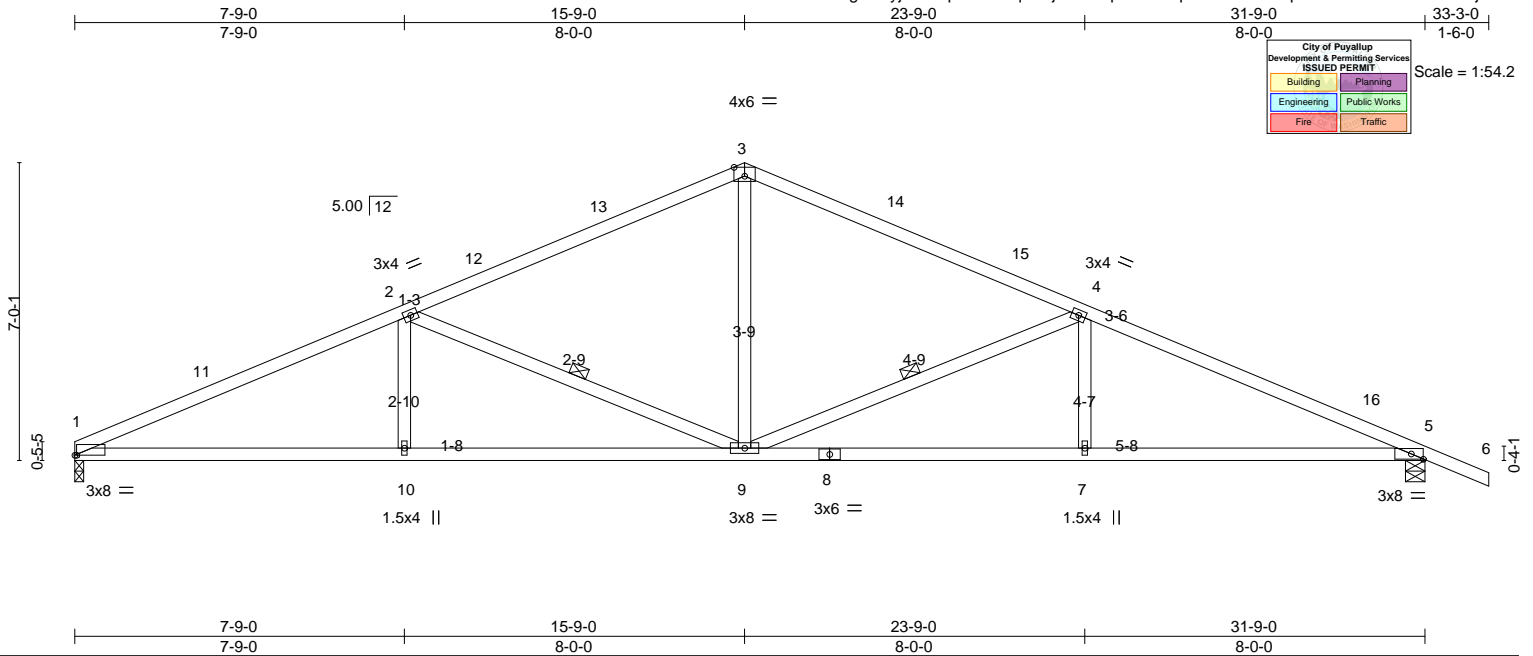


Plate Offsets (X,Y)--	[1:0-0-8,0-0-0], [3:0-3-0,0-2-8], [5:0-3-6,0-1-8]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.95 BC 0.75 WB 0.38 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.17 1-10 >999 360 Vert(CT) -0.30 7-9 >999 240 Horz(CT) 0.13 5 n/a n/a	MT20	185/148
TCDL 8.0 BCLL 0.0 * BCDL 7.0	Rep Stress Incr YES Code IRC2018/TPI2014			Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud *Except*
4-9,2-9: 2x4 HF No.2

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

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

REACTIONS. (lb/size) 1=1254/0-2-8 (min. 0-2-1), 5=1374/0-5-8 (min. 0-2-4)
Max Horz 1=77(LC 13)
Max Uplift 1=28(LC 12), 5=-46(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-2596/60, 2-11=-2511/78, 2-12=-1741/70, 12-13=-1629/85, 3-13=-1619/97, 3-14=-1619/97, 14-15=-1629/85, 4-15=-1741/70,
4-16=-2510/65, 5-16=-2603/39
BOT CHORD 1-10=-65/2311, 9-10=-65/2311, 8-9=0/2314, 7-8=0/2314, 5-7=0/2314
WEBS 3-9=0/779, 4-9=-1006/109, 4-7=0/283, 2-9=-1002/113, 2-10=0/283

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-4 to 3-3-6, Interior(1) 3-3-6 to 12-6-14, Exterior(2R) 12-6-14 to 18-11-2, Interior(1) 18-11-2 to 30-0-14, Exterior(2E) 30-0-14 to 33-3-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
 - 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.
 - 10) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

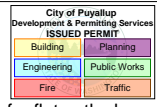
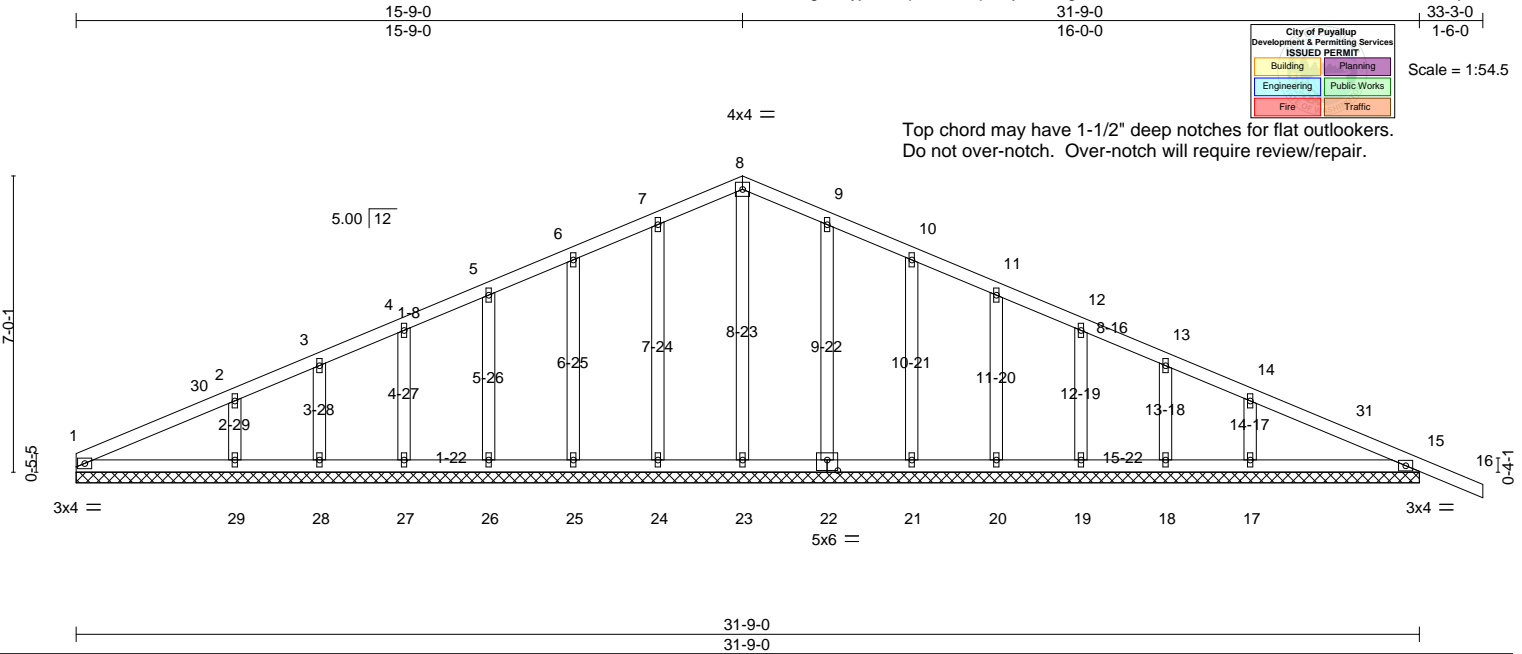
LOAD CASE(S) Standard



April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

6,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:42 2023 Page 1
 ID:YLcgXvNjDRbUpX6?FIHQ?zUjAK-KCgBZGaA86E6dAvCEwfcMVW2Axk4r1N0dESPfzQkjh



Scale = 1:54.5

Plate Offsets (X,Y)-- [22:0-3:0,0-3-0]									
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP				
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.14 BC 0.09 WB 0.13 Matrix-SH	in (loc) l/defl L/d Vert(LL) 0.00 16 n/r 120 Vert(CT) 0.01 16 n/r 90 Horz(CT) 0.00 15 n/a n/a	MT20	185/148				
TCDL 8.0 BCLL 0.0 * BCDL 7.0	Rep Stress Incr YES Code IRC2018/TPI2014			Weight: 145 lb FT = 20%					

LUMBER-
 TOP CHORD 2x4 HF No.2
 BOT CHORD 2x4 HF No.2
 OTHERS 2x4 DF Stud

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.

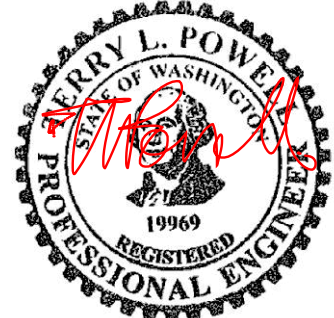
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 31-9-0.
 (lb) - Max Horz 1=77(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17, 15
 Max Grav All reactions 250 lb or less at joint(s) 1, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18 except 29=306(LC 1), 17=286(LC 1), 15=258(LC 20)

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

- NOTES-** (13-14)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-2-2, Exterior(2N) 3-2-2 to 12-6-14, Corner(3R) 12-6-14 to 18-11-2, Exterior(2N) 18-11-2 to 30-0-14, Corner(3E) 30-0-14 to 33-3-0 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) 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 1, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17, 15.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) All dimensions given in feet-inches-sixteenths (FFI/SS) format.
 - 14) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



April 17, 2023

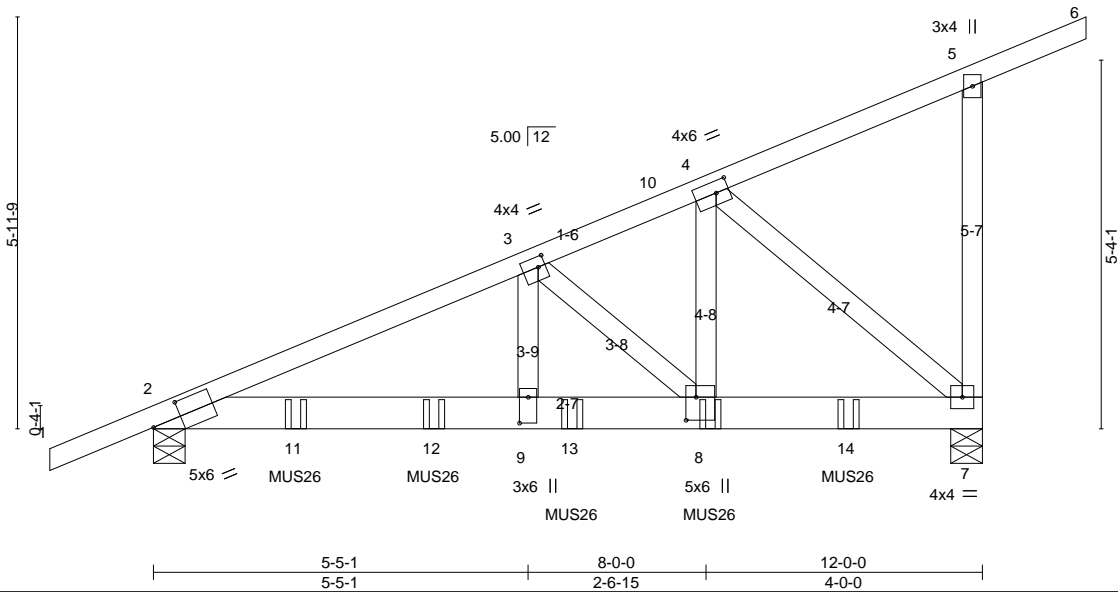
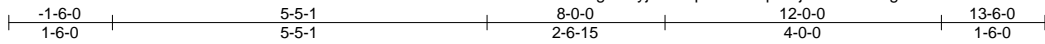


Plate Offsets (X,Y)-- [2:0-5-1,0-2-10], [3:0-1-4,0-1-12], [4:0-2-4,0-2-0], [8:0-4-0,0-1-12], [9:0-4-8,0-1-8]						
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	TC 0.45 BC 0.80 WB 0.67 Matrix-P	in (loc) l/defl L/d Vert(LL) -0.09 2-9 >999 360 Vert(CT) -0.15 2-9 >921 240 Horz(CT) 0.02 7 n/a n/a		MT20	185/148
					Weight: 135 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 HF No.2 BOT CHORD 2x6 DF SS WEBS 2x4 DF Stud	TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=3715/0-5-8 (min. 0-3-3), 2=3713/0-5-8 (min. 0-3-1)
 Max Horz 2=142(LC 7)
 Max Uplift 7=245(LC 10), 2=211(LC 10)
 Max Grav 7=3902(LC 17), 2=3739(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=6356/327, 3-10=3713/189, 4-10=3649/198, 5-7=376/58
 BOT CHORD 2-11=338/5782, 11-12=338/5782, 9-12=338/5782, 9-13=338/5782, 8-13=183/3402, 7-14=183/3402
 WEBS 3-9=124/2854, 3-8=3147/204, 4-8=220/4025, 4-7=4468/276

- NOTES-** (13)
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=245, 2=211.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Use MiTek MUS26 (With 6-10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) A3 (1 ply 2x6 DF) to front face of bottom chord.
 - 12) Fill all nail holes where hanger is in contact with lumber.
 - 13) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

LOAD CASE(S) Standard

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

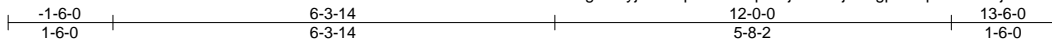
Uniform Loads (plf)
 Vert: 1-5=-66, 5-6=-66, 2-7=-14
 Concentrated Loads (lb)
 Vert: 8=-1255(F) 11=-1255(F) 12=-1255(F) 13=-1255(F) 14=-1255(F)



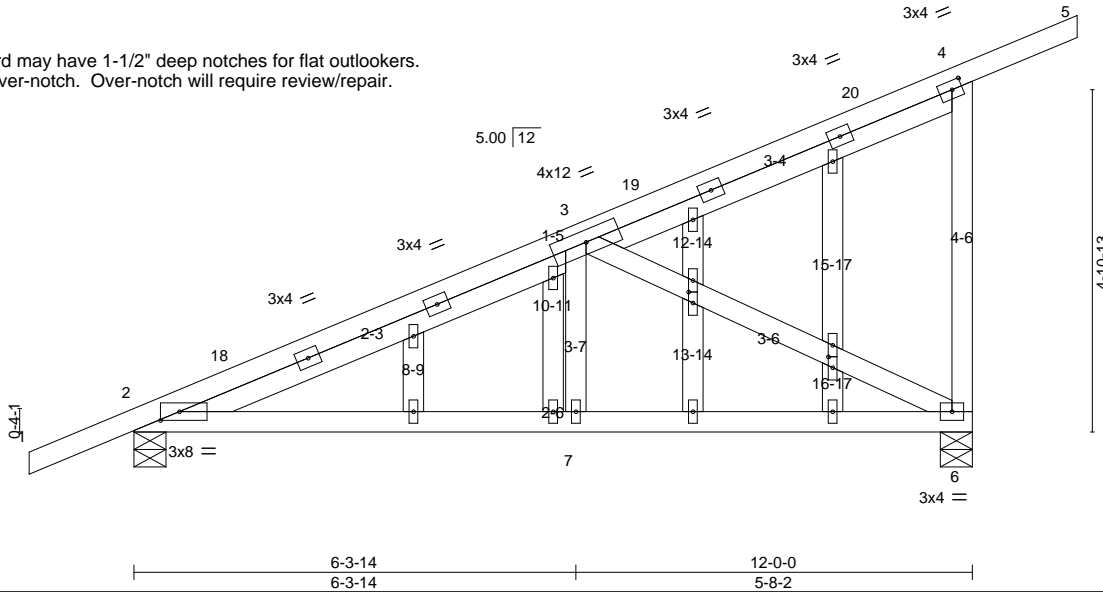
April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:51 2023 Page 1
 ID:YlCgXvNjYrDbUpX6?FIHQ?zUjAK-ZwjbSLgp0tNqCY5xGJJDPZOZYZmlS1CLh87NWdzQkjY



Top chord may have 1-1/2" deep notches for flat outlookers.
 Do not over-notch. Over-notch will require review/repair.



Scale = 1:33.0

City of Puyallup
 Development & Permitting Services
 ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [4:0-1-12,0-1-8], [14:0-1-14,0-0-12], [17:0-1-14,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	185/148
TCDL 8.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) -0.05 2-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.48	Vert(CT) -0.08 2-7 >999 240		
BCDL 7.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 82 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF No.1&Btr
 BOT CHORD 2x4 HF No.2
 WEBS 2x4 DF Stud
 OTHERS 2x4 DF Stud
 SLIDER Left 2x4 DF No.1&Btr 5-11-14

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.

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

REACTIONS. (lb/size) 2=580/0-5-8 (min. 0-1-8), 6=573/0-5-8 (min. 0-1-8)
 Max Horz 2=143(LC 9)
 Max Uplift 2=26(LC 12), 6=62(LC 12)
 Max Grav 2=606(LC 19), 6=760(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-779/60, 3-18=-708/78, 4-6=-416/115
 BOT CHORD 2-7=-80/654, 6-7=-85/647
 WEBS 3-6=-719/173

- NOTES-** (12-13)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Corner(3E) 10-6-0 to 13-6-0 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) 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 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.
 - 12) All dimensions given in feet-inches-sixteenths (FFI/SS) format.
 - 13) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



April 17, 2023

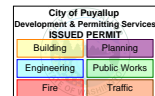
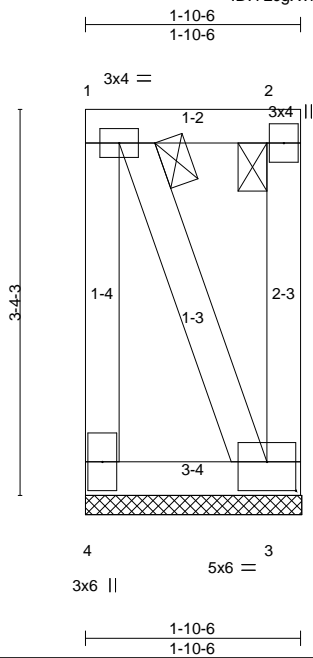
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1139138	Truss BP1	Truss Type FLAT SUPPORTED GABLE	Qty 18	Ply 1	HC Homes Inc.	PRRNSF20230919	114706713
-----------------	--------------	------------------------------------	-----------	----------	---------------	----------------	-----------

The Truss Company (Sumner), Sumner, WA - 98390,

ID:YLcgXvNjDRbUpX6?FIHq?zUJAK-17HzfghRnBvhqig7q0qymcwl?z9sBYTVwotw24zQkX
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:52 2023 Page 1



Scale = 1:20.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.25 BC 0.06 WB 0.22 Matrix-P	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	MT20	185/148
TCDL 8.0 BCLL 0.0 * BCDL 7.0	Rep Stress Incr NO Code IRC2018/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-2, 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. (lb/size) 4=63/1-10-8 (min. 0-1-8), 3=63/1-10-8 (min. 0-1-8)
Max Horz 4=65(LC 8)
Max Uplift 4=831(LC 29), 3=831(LC 32)
Max Grav 4=838(LC 36), 3=838(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=827/837, 1-2=378/372
BOT CHORD 3-4=410/405
WEBS 1-3=930/930

- NOTES-** (14)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Provide adequate drainage to prevent water ponding.
 - 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 1-4-0 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=831, 3=831.
 - 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.
 - 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 250.0 plf.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

LOAD CASE(S) Standard



April 17, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

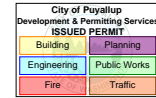
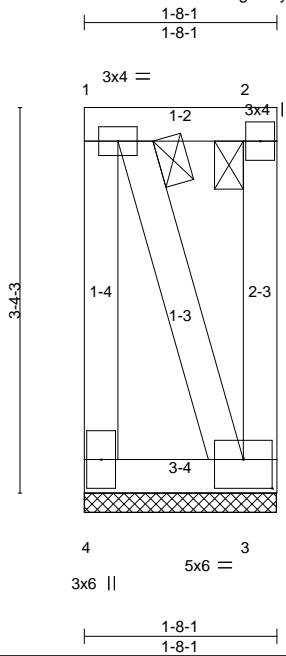


Job J1139138	Truss BP2	Truss Type FLAT SUPPORTED GABLE	Qty 2	Ply 1	HC Homes Inc.	PRRNSF20230919	114706714
-----------------	--------------	------------------------------------	----------	----------	---------------	----------------	-----------

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:53 2023 Page 1

ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-VJrMt0i3YVdYSsFJOKLBjQTwINVHw?me9ScUaWzQkqW



Scale = 1:20.0

Plate Offsets (X,Y)-- [3-0-3-0-0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	185/148
TCDL 8.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Vert(CT) n/a - n/a 999		
BCDL 7.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-2, 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. (lb/size) 4=55/1-8-0 (min. 0-1-8), 3=55/1-8-0 (min. 0-1-8)
Max Horz 4=65(LC 7)
Max Uplift 4=839(LC 29), 3=839(LC 32)
Max Grav 4=845(LC 36), 3=845(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=836/845, 1-2=335/329
BOT CHORD 3-4=367/361
WEBS 1-3=917/917

- NOTES-** (14)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=839, 3=839.
 - 10) Non Standard bearing condition. Review required.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-1 for 250.0 plf.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

LOAD CASE(S) Standard



April 17, 2023

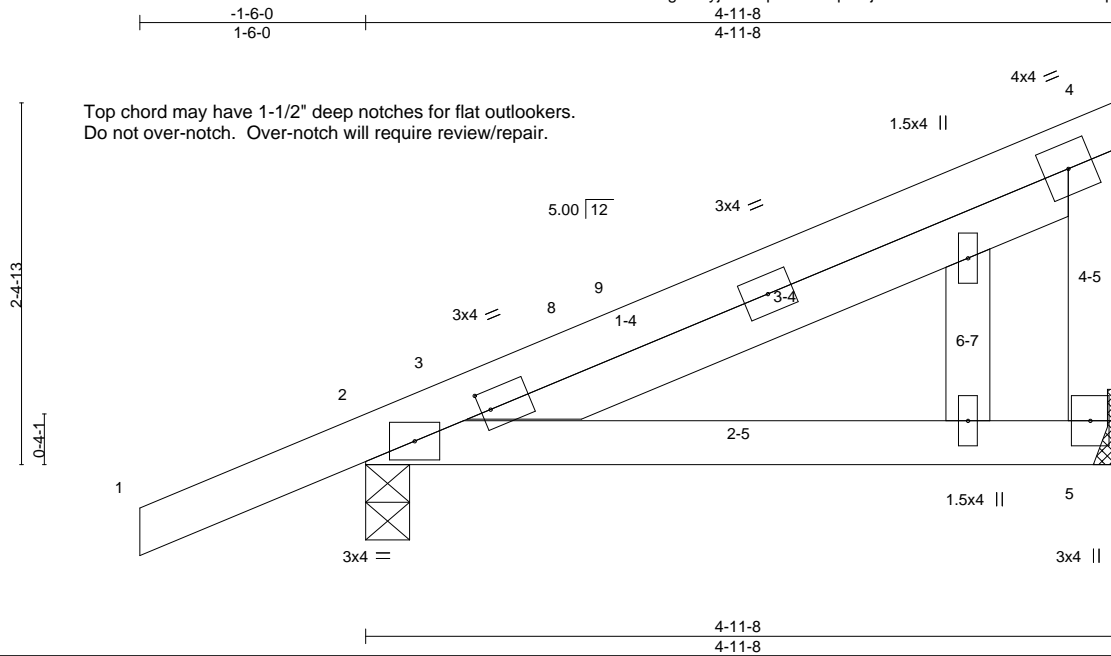
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1139138	Truss C1	Truss Type GABLE	Qty 2	Ply 1	HC Homes Inc.	PRRNSF20230919	114706715
-----------------	-------------	---------------------	----------	----------	---------------	----------------	-----------

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
6,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:53 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-VJrM0i3YVdYSSfJOKLBJqTwGNS?w2Ce9ScUaWzQkqjW



Scale = 1:15.3



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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.22 BC 0.20 WB 0.00 Matrix-P	in (loc) l/defl L/d Vert(LL) -0.03 2-5 >999 360 Vert(CT) -0.05 2-5 >999 240 Horz(CT) 0.00 5 n/a n/a	MT20	185/148
TCDL 8.0 BCLL 0.0 * BCDL 7.0	Rep Stress Incr YES Code IRC2018/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr BOT CHORD 2x4 HF No.2 WEBS 2x4 DF Stud OTHERS 2x4 DF Stud SLIDER Left 2x4 DF No.1&Btr 4-3-14	TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals. 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) 5=168/Mechanical, 2=314/0-3-8 (min. 0-1-8)
Max Horz 2=56(LC 9)
Max Uplift 5=13(LC 12), 2=-26(LC 12)
Max Grav 5=239(LC 19), 2=463(LC 19)

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

- NOTES-** (12-13)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 1-9-12, Corner(3E) 1-9-12 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 - 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.
 - 12) All dimensions given in feet-inches-sixteenths (FFIISS) format.
 - 13) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



April 17, 2023

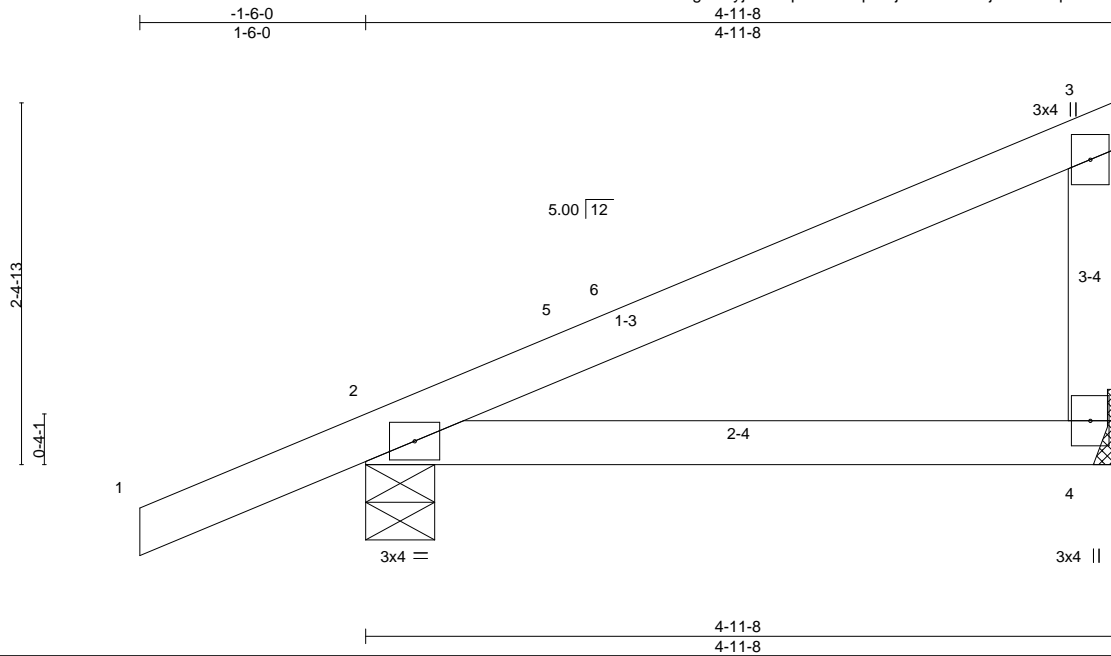
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

The Truss Company (Sumner), Sumner, WA - 98390,

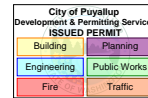
Job Reference (optional)

6.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:54 2023 Page 1

ID:YlCgXvNyjDRbUpX6?FIHq?zUjAK-zVPk4MjhJolP30qVxRsQr101bnPLfVRnN5M16yzQkjV



Scale = 1:15.3



LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.44 BC 0.19 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 2-4 >999 360 Vert(CT) -0.05 2-4 >999 240 Horz(CT) 0.00 4 n/a n/a	PLATES MT20 Weight: 17 lb	GRIP 185/148 FT = 20%
---	---	--	--	--	------------------------------------

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
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) 4=162/Mechanical, 2=319/0-5-8 (min. 0-1-8)
Max Horz 2=56(LC 9)
Max Uplift 4=12(LC 12), 2=-26(LC 12)
Max Grav 4=230(LC 19), 2=470(LC 19)

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

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 1-9-12, Exterior(2E) 1-9-12 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - 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.
 - 10) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

LOAD CASE(S) Standard

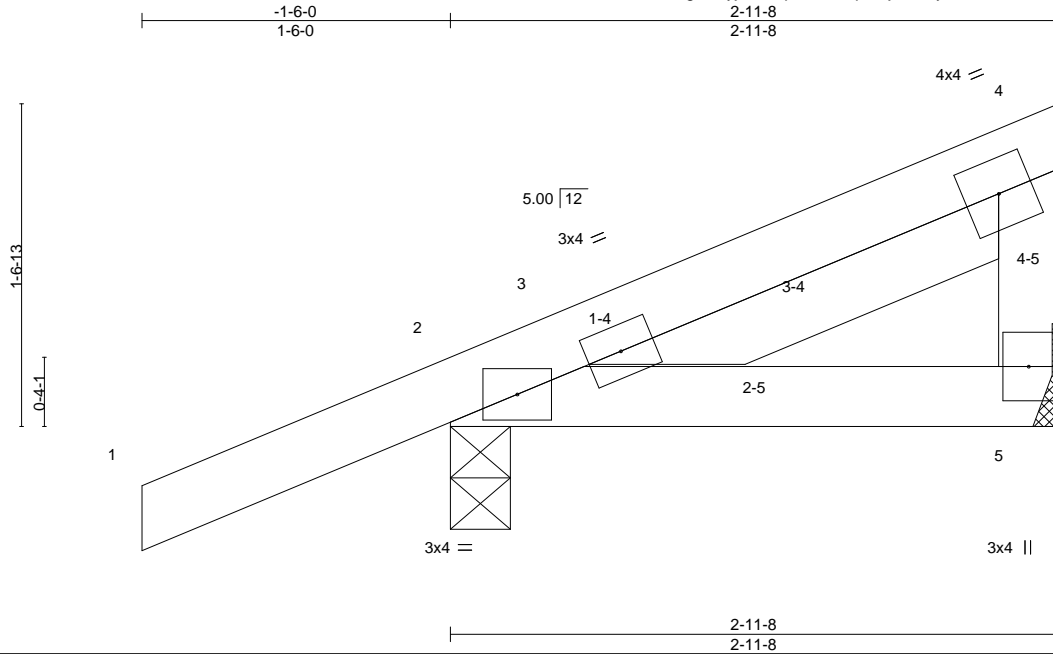


April 17, 2023

Job J1139138	Truss C3	Truss Type MONOPITCH SUPPORTED	Qty 2	Ply 1	HC Homes Inc.	PRRNSF20230919	114706717
-----------------	-------------	-----------------------------------	----------	----------	---------------	----------------	-----------

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:55 2023 Page 1
ID:YLcgXvNjyDRbUpX6?FIHq?zUjAK-Riy6likK46IGh9PIV9OIOFYGGABD0xhxc15bPzQkju



Scale = 1:11.2

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.18 BC 0.06 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2-5 >999 360 Vert(CT) -0.01 2-5 >999 240 Horz(CT) 0.00 5 n/a n/a	PLATES MT20 Weight: 14 lb	GRIP 185/148 FT = 20%
---	---	--	--	--	------------------------------------

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud
SLIDER Left 2x4 DF No.1&Btr 2-1-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
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) 5=73/Mechanical, 2=249/0-3-8 (min. 0-1-8)
Max Horz 2=36(LC 9)
Max Uplift 5=-3(LC 12), 2=-29(LC 8)
Max Grav 5=100(LC 19), 2=363(LC 19)

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

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 - 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.
 - 10) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

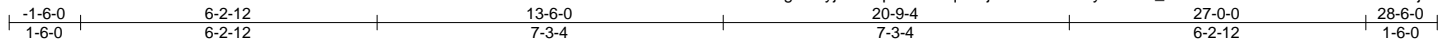
LOAD CASE(S) Standard



April 17, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

The Truss Company (Sumner), Sumner, WA - 98390, Job Reference (optional) 8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:56 2023 Page 1



Scale: 1/4"=1'

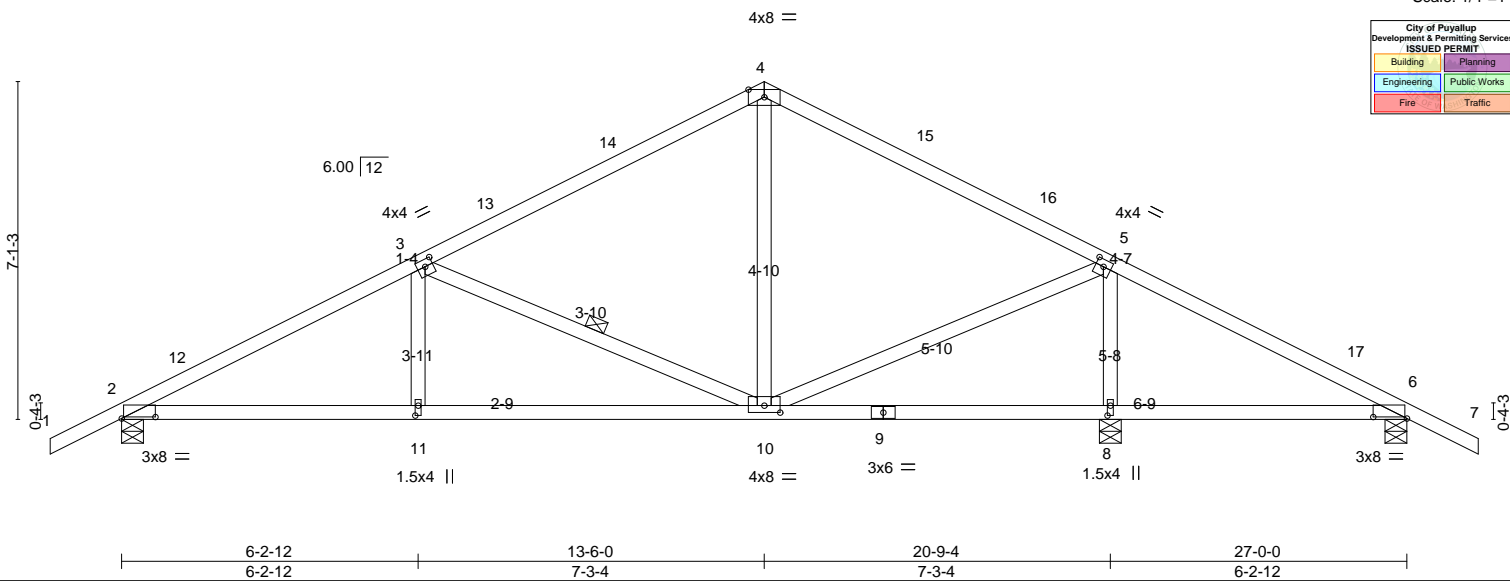
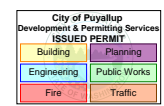


Plate Offsets (X,Y)-- [2:0-8-8,0-0-6], [3:0-2-0,0-1-12], [5:0-2-0,0-1-12], [6:0-2-8,0-0-6], [8:0-2-8,0-0-12], [10:0-4-0,0-1-12], [11:0-2-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	TC 0.97 BC 0.75 WB 0.49 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.09 11 >999 360 Vert(CT) -0.15 2-11 >999 240 Horz(CT) 0.05 8 n/a n/a	MT20	185/148
TCDL 8.0 BCLL 0.0 * BCDL 7.0					Weight: 112 lb FT = 20%

LUMBER-
TOP CHORD 2x4 DF 2400F 2.0E
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud *Except*
5-10,3-10: 2x4 HF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-10

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

REACTIONS. (lb/size) 2=1657/0-5-8 (min. 0-2-13), 8=1604/0-5-8 (min. 0-2-10), 6=172/0-5-8 (min. 0-1-8)
Max Horz 2=74(LC 13)
Max Uplift 2=87(LC 12), 8=20(LC 13), 6=38(LC 13)
Max Grav 2=1718(LC 19), 8=1604(LC 1), 6=193(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=2728/138, 3-12=2313/141, 3-13=1254/97, 13-14=957/102, 4-14=941/108, 4-15=908/115,
15-16=957/101, 5-16=1030/87, 5-17=0/400, 6-17=-21/326
BOT CHORD 2-11=-116/2249, 10-11=-116/2249, 9-10=-307/43, 8-9=-307/43, 6-8=-307/43
WEBS 4-10=0/289, 5-10=-22/1268, 5-8=-1494/108, 3-10=-1518/141, 3-11=0/251

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-6-0, Exterior(2R) 10-6-0 to 16-6-0, Interior(1) 16-6-0 to 25-6-0, Exterior(2E) 25-6-0 to 28-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 8, 6.
 - 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.
 - 9) All dimensions given in feet-inches-sixteenths (FFIIS) format.

LOAD CASE(S) Standard
1) Dead + Snow (balanced); Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 4-7=-66, 2-6=-14
Trapezoidal Loads (plf)
Vert: 2=-177-to-4=-118



April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

6,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:58 2023 Page 1
 ID:YlCgXvNjyDRbUpX6?FIHQ?zUjAK-sHfWkmCN1FqYd7HAHxM0tAkG081bGKNjJKFFjzQKjR

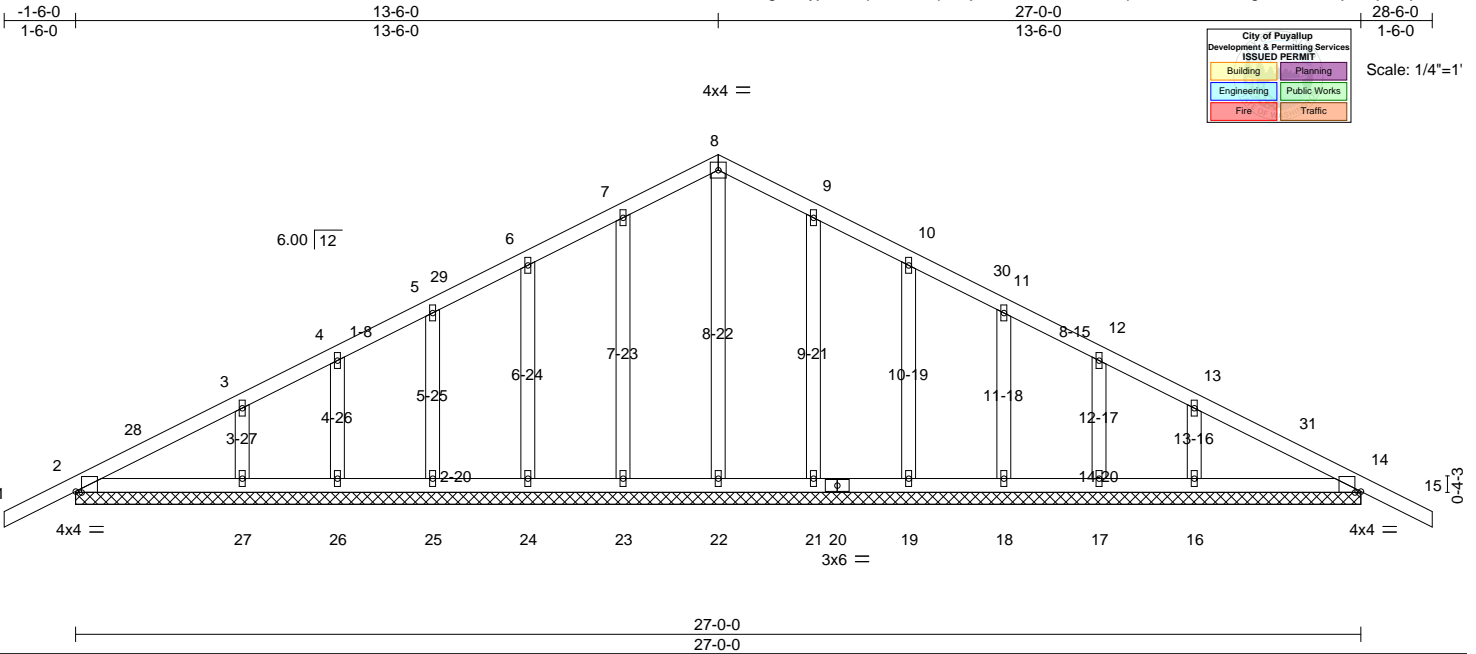


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [14:0-1-8,Edge]	
LOADING (psf)	SPACING-
TCLL 25.0 (Roof Snow=25.0)	2-0-0
TCDL 8.0	Plate Grip DOL 1.15
BCLL 0.0 *	Lumber DOL 1.15
BCDL 7.0	Rep Stress Incr NO
	Code IRC2018/TPI2014
CSI.	DEFL.
TC 0.37	in (loc) l/defl L/d
BC 0.33	Vert(LL) 0.00 15 n/r 120
WB 0.14	Vert(CT) 0.00 15 n/r 90
Matrix-SH	Horz(CT) 0.03 22 n/a n/a
PLATES	GRIP
MT20	185/148
Weight: 128 lb FT = 20%	

LUMBER-
 TOP CHORD 2x4 HF No.2
 BOT CHORD 2x4 HF No.2
 OTHERS 2x4 DF Stud

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-0-7 oc bracing.

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

REACTIONS. All bearings 27-0-0.
 (lb) - Max Horz 2=74(LC 45)
 Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 except 2=1038(LC 44), 14=1042(LC 45)
 Max Grav All reactions 250 lb or less at joint(s) 22, 24, 25, 26, 27, 19, 18, 17, 16 except 2=1109(LC 55), 23=252(LC 19), 21=252(LC 20), 14=1109(LC 54)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-28=-2351/2295, 3-28=-2084/2041, 3-4=-1716/1719, 4-5=-1370/1396, 5-29=-1027/1075, 6-29=-893/888, 6-7=-683/755, 7-8=-346/433, 8-9=-346/428, 9-10=-681/738, 10-30=-912/859, 11-30=-1016/1048, 11-12=-1351/1365, 12-13=-1693/1687, 13-31=-2052/2022, 14-31=-2320/2267
 BOT CHORD 2-27=-2023/2095, 26-27=-1503/1570, 25-26=-1203/1270, 24-25=-903/970, 23-24=-603/670, 22-23=-303/370, 21-22=-303/370, 20-21=-333/400, 19-20=-603/670, 18-19=-903/970, 17-18=-1203/1270, 16-17=-1503/1570, 14-16=-2023/2095

- NOTES-** (15)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCdL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Corner(3R) 10-6-0 to 16-6-0, Exterior(2N) 16-6-0 to 25-6-0, Corner(3E) 25-6-0 to 28-6-0 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) 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 except (jt=lb) 2=1038, 14=1042.
 - 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.
 - 14) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-0-0 for 150.0 plf.
 - 15) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

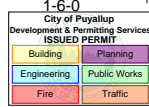
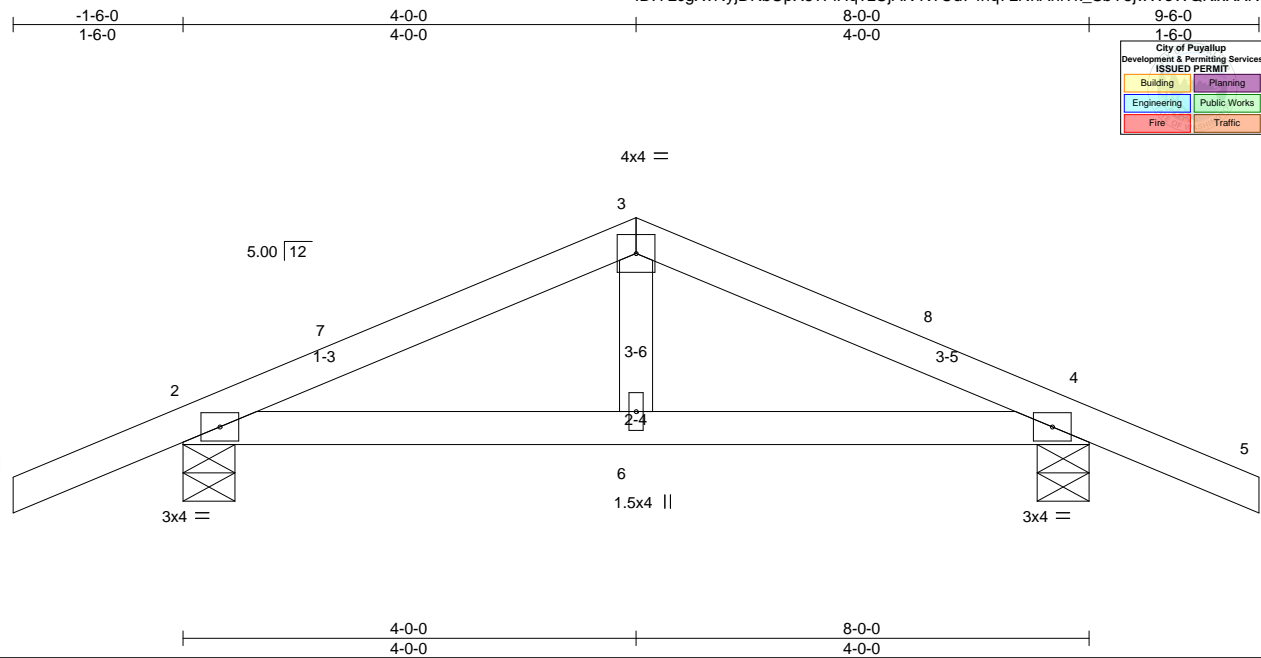
LOAD CASE(S) Standard



April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
6,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:58:59 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-KTCd74nq7LNhAnITk_SbY5jwWoWQKlxXXN3ooAzQkjQ



Scale = 1:20.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	185/148
TCDL 8.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) -0.01 2-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.01 2-6 >999 240		
BCDL 7.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud

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) 2=416/0-5-8 (min. 0-1-8), 4=416/0-5-8 (min. 0-1-8)
Max Horz 2=22(LC 16)
Max Uplift 2=-26(LC 12), 4=-26(LC 13)
Max Grav 2=555(LC 19), 4=555(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-408/60, 3-7=-314/72, 3-8=-314/72, 4-8=-408/60
BOT CHORD 2-6=0/286, 4-6=0/286

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Exterior(2R) 1-6-0 to 6-6-0, Exterior(2E) 6-6-0 to 9-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
 - 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.
 - 9) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

LOAD CASE(S) Standard

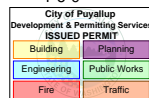
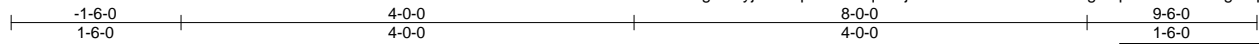


April 17, 2023

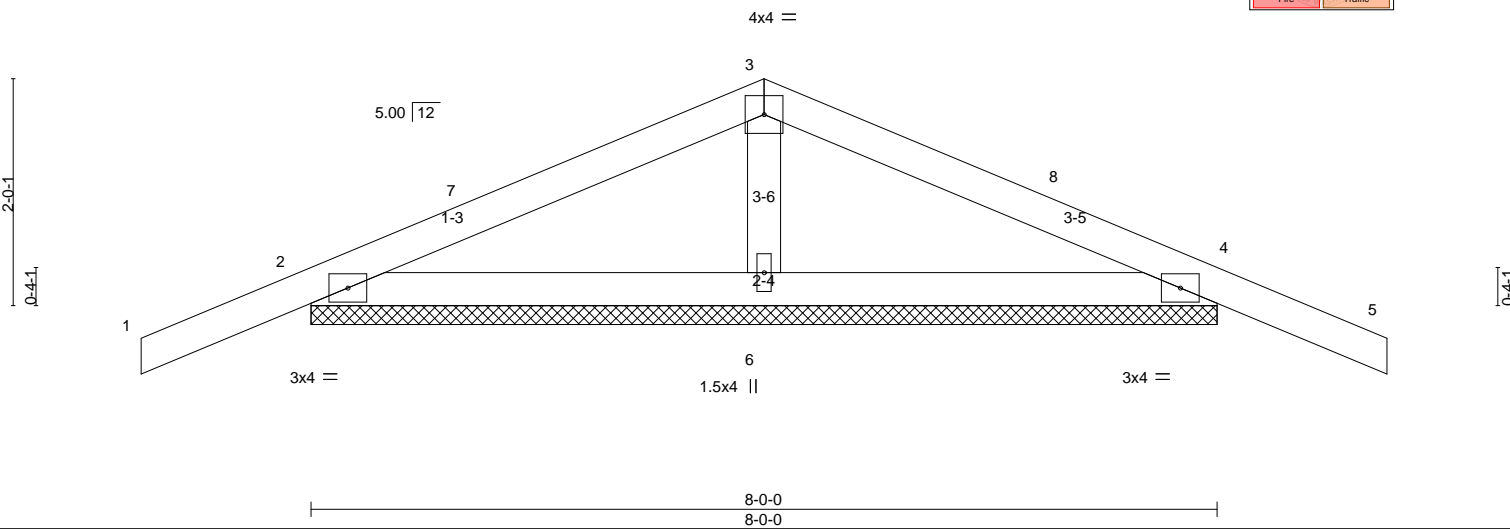
The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:59:00 2023 Page 1

ID:YLcgXvNjyDRbUpX6?FIHq?zUjAK-ofm?LQnSueVYnxHglizq5IF4mBtt3CHgm1pMKczQkJP



Scale = 1:20.3



LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.33 BC 0.12 WB 0.04 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 n/r 120 Vert(CT) 0.00 5 n/r 90 Horz(CT) 0.00 4 n/a n/a	PLATES MT20 Weight: 25 lb	GRIP 185/148 FT = 20%
---	---	--	--	--	------------------------------------

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 DF Stud

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.

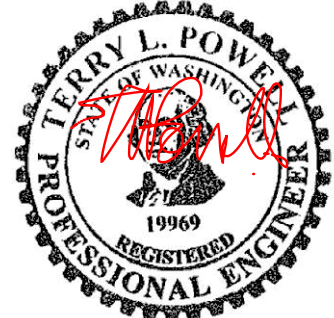
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=276/8-0-0 (min. 0-1-8), 4=276/8-0-0 (min. 0-1-8), 6=287/8-0-0 (min. 0-1-8)
Max Horz 2=22(LC 16)
Max Uplift 2=33(LC 12), 4=37(LC 13)
Max Grav 2=407(LC 19), 4=407(LC 20), 6=287(LC 1)

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

- NOTES-** (12)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Corner(3R) 1-6-0 to 6-6-0, Corner(3E) 6-6-0 to 9-6-0 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) 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 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.
 - 12) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

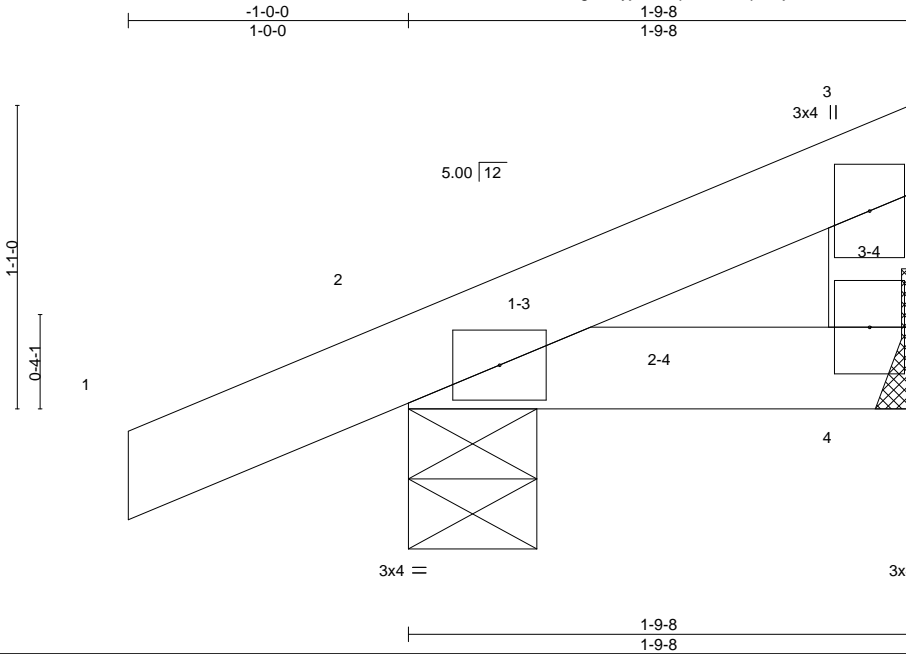


April 17, 2023

The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:59:00 2023 Page 1

ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-ofm?LQnSueVYnxHglizq5IF8OBuP3Cxgm1pMkczQkJP



Scale = 1:8.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.10	in (loc) l/defl L/d	MT20	185/148
TCDL 8.0	Lumber DOL 1.15	BC 0.02	Vert(LL) -0.00 2 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.00 2 >999 240		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
				Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 1-9-8 oc purlins, except end verticals.
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) 4=41/Mechanical, 2=156/0-5-8 (min. 0-1-8)
Max Horz 2=22(LC 9)
Max Uplift 4=-1(LC 12), 2=-19(LC 8)
Max Grav 4=53(LC 19), 2=211(LC 19)

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

NOTES- (10)

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.
- 10) All dimensions given in feet-inches-sixteenths (FFI/ISS) format.

LOAD CASE(S) Standard



April 17, 2023

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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component**

Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

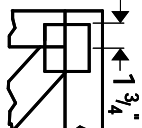


PRRNSF20230919

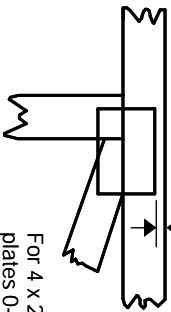
Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.



* Plate location details available in MITtek 20/20 software or upon request.

PLATE SIZE

4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

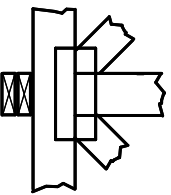
LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.



BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

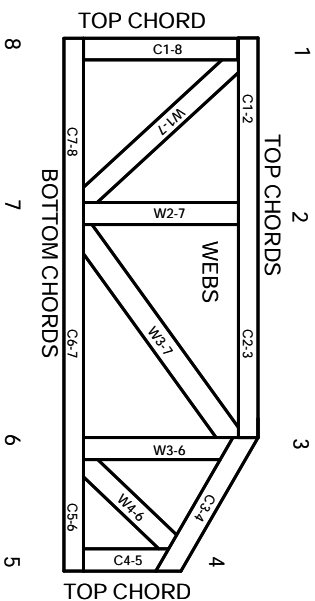


Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

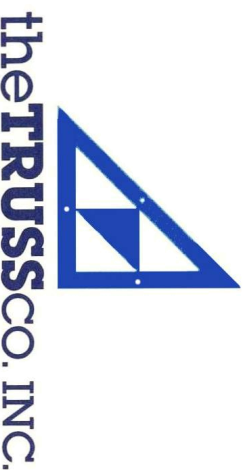
CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B,
9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

© 2006 MITtek® All Rights Reserved



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.