



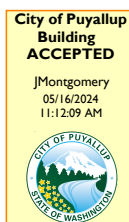
BRADLEY HEIGHTS SS LLC

**BRADLEY HEIGHTS
CLUBHOUSE**
202 27th Avenue SE
Puyallup, WA

FULL SIZED LEDGIBLE COLOR REPORT
IS REQUIRED TO BE PROVIDED BY THE
PERMITTEE ON SITE FOR ALL
INSPECTIONS

SUBMITTAL #1

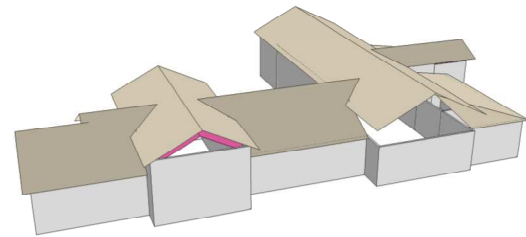
Alliance Job # N0652



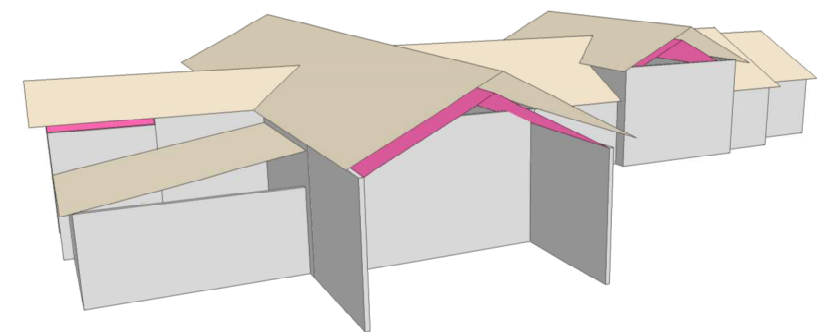
Date: May 29, 2023

Representative: Craig Westerberg

PRCNC20240278



PRCNC20240278



ALLIANCE TRUSS

alliancetruss.com | 1.604.574.3525

WOOD TRUSSES | WALL PANELS

Job Number:
Quote Number: N0652
Customer: Timberlane
Job Name: Clubhouse
Address: 202 27th Ave SE
City: Puyallup, WA

Salesman: CW
Drawn By: DC
Date: May 26/23
Rev 1: -
Rev 2: -
Rev 3: -
Architectural Plan Date: 04/25/23
Structural Plan Date: 05/15/23

Design Loads

TC LL: 25 psf
TC DL: 12 psf
BC LL: 0 psf
BC DL: 10 psf

General
Spacing: 24"oc U.N.O
O/H Length: Varies
O/A Heel: Varies
Slope: Varies
Roof Material: Duroid
Roof Area: 6926 sq ft
Scale: NTS

HANGER SCHEDULE

TYPE	SYMBOL	QTY	TYPE	SYMBOL	QTY
JL24	A	5	-	H	0
JL26	B	0	-	K	0
HUS26	C	27	-	M	0
THDH26	D	0	-	P	0
THDH28	E	0	-	Q	0
THDH210	G	0	-	S	0

IMPORTANT:
SEE HANGER INSTALLATION DOCUMENT FOR SHEAR NAIL AND GENERAL NAILING INFORMATION.

TIEDOWNS & STRAPS

TYPE	QTY	DESCRIPTION
RT15	240	ROOF TRUSSES
RT16A	2	GIRDER TRUSSES
RT16-2	2	2-PLY GIRDERS

IMPORTANT:
1. REFER TO ENGINEERED TRUSS DRAWINGS FOR WEB BRACING AND BEARING SCAB REQUIREMENTS.
2. FOR ERECTION AND BRACING RECOMMENDATIONS, THE WTCA 'HANDLING, INSTALLATION, AND BRACING OF WOOD TRUSSES' IS PROVIDED AT TIME OF DELIVERY.

Re: N0652

TIMBERLANE-202 27th Ave SE-Puyallup-WA

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Alliance Truss (CA).

Pages or sheets covered by this seal: U1489109 thru U1489153

My license renewal date for the state of Washington is February 17, 2024.



May 26, 2023

Garcia, Juan

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	A1	GABLE	1	1	U1489109

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:39 2023 Page 1
 ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?F



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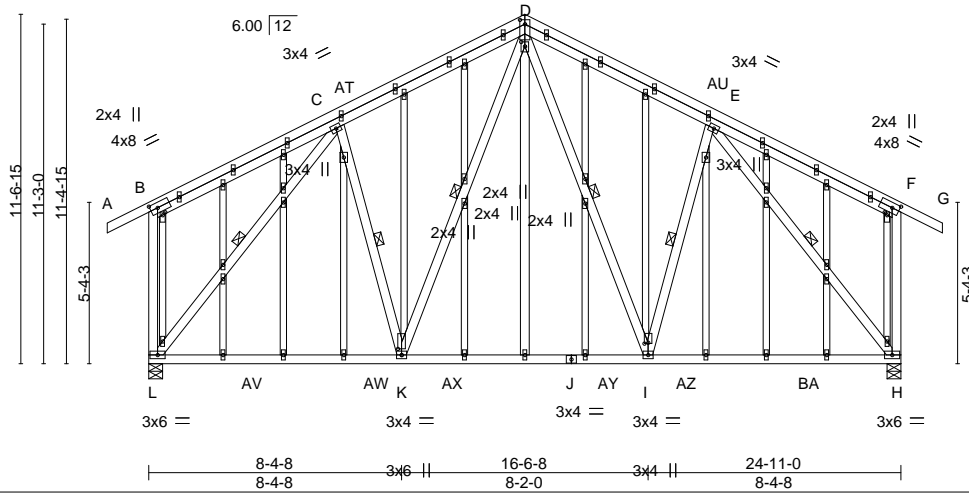


Plate Offsets (X,Y)-- [B:0-1-3,0-1-0], [B:0-2-15,0-2-0], [D:0-1-12,0-1-8], [D:0-1-12,0-2-0], [F:0-2-15,0-2-0], [F:0-1-3,0-1-0], [I:0-0-5,0-1-8], [K:0-2-7,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.74	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.74	Vert(LL) -0.19 H-I >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Vert(CT) -0.31 H-I >940 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.03 H n/a n/a		
			Wind(LL) 0.01 I-K >999 240	Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 OTHERS 2x3 SPF No.2 *Except*
 D-M: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt D-I, E-I, D-K, C-K, C-L, E-H

REACTIONS.

(size) L=0-5-8, H=0-5-8
 Max Horz L=-207(LC 8)
 Max Uplift L=-119(LC 10), H=-119(LC 11)
 Max Grav L=1400(LC 3), H=1400(LC 4)

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

TOP CHORD C-D=-1048/157, D-E=-1048/157, B-L=-320/91, F-H=-320/91
 BOT CHORD K-L=-91/835, I-K=-33/770, H-I=-73/793
 WEBS D-I=-62/314, E-I=-54/276, D-K=-62/314, C-K=-54/276, C-L=-1260/79, E-H=-1260/79

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=119, H=119.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.



May 26, 2023

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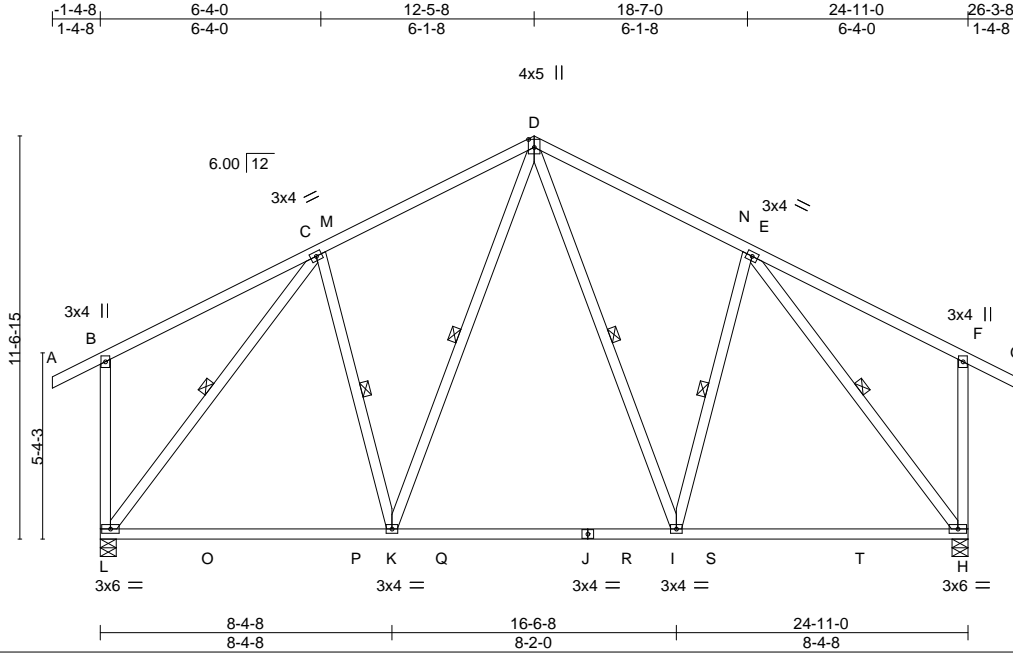
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	A2	Common	6	1	U1489110

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:40 2023 Page 1

ID:JK8PGhl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:66.2

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

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	TC 0.70 BC 0.74 WB 0.59 Matrix-MS	Vert(LL) -0.19 Vert(CT) -0.32 Horz(CT) 0.03 Wind(LL) 0.01	K-L K-L H I-K	>999 >928 n/a >999	360 240 n/a 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES Code IBC2018/TPI2014						Weight: 143 lb	FT = 20%
BCLL 0.0 *								
BCDL 10.0								

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt D-I, E-I, D-K, C-K, C-L, E-H

REACTIONS.

(size) L=0-5-8, H=0-5-8
 Max Horz L=-210(LC 8)
 Max Uplift L=-117(LC 10), H=-117(LC 11)
 Max Grav L=1404(LC 3), H=1404(LC 4)

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

TOP CHORD C-D=-1022/165, D-E=-1022/165, B-L=-331/100, F-H=-331/100
 BOT CHORD K-L=-89/816, I-K=-33/753, H-I=-65/772
 WEBS D-I=-71/311, E-I=-54/283, D-K=-71/311, C-K=-54/283, C-L=-1240/64, E-H=-1240/64

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=117, H=117.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	A3	Common	1	1	U1489111

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:41 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

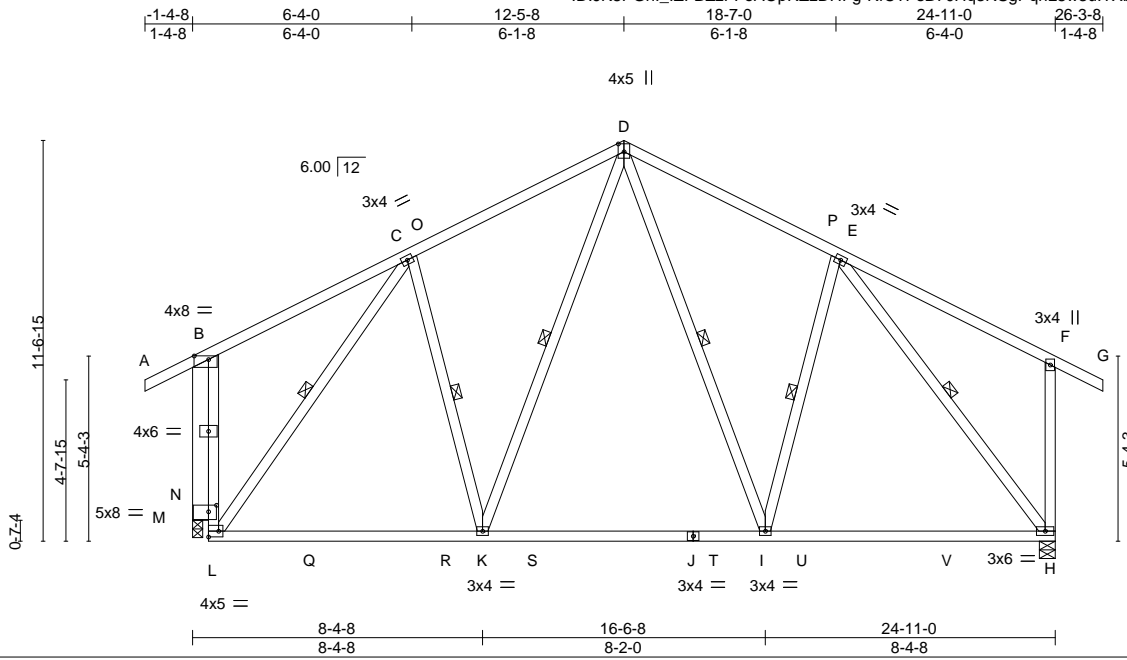


Plate Offsets (X,Y)-- [B:0-5-0,0-1-4], [D:0-2-12,0-2-0], [L:Edge,0-2-0], [M:0-2-12,0-2-4]

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 0.70 BC 0.74 WB 0.59 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.19 H-I >999 360 Vert(CT) -0.31 H-I >947 240 Horz(CT) 0.03 H n/a n/a Wind(LL) 0.02 I-K >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES			Weight: 151 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 OTHERS 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt D-I, E-I, D-K, C-K, C-L, E-H

REACTIONS.

(size) H=0-5-8, N=0-3-8
 Max Horz N=178(LC 9)
 Max Uplift H=-110(LC 11), N=-115(LC 10)
 Max Grav H=1402(LC 4), N=1383(LC 3)

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

TOP CHORD C-D=-1012/173, D-E=-1020/157, L-M=-4/1041, B-M=-4/1041, F-H=-331/100
 BOT CHORD K-L=-64/789, I-K=-21/739, H-I=-60/771
 WEBS D-I=-74/314, E-I=-53/283, D-K=-79/298, C-K=-54/274, C-L=-1099/46, E-H=-1238/55,
 B-N=-1389/116

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=110, N=115.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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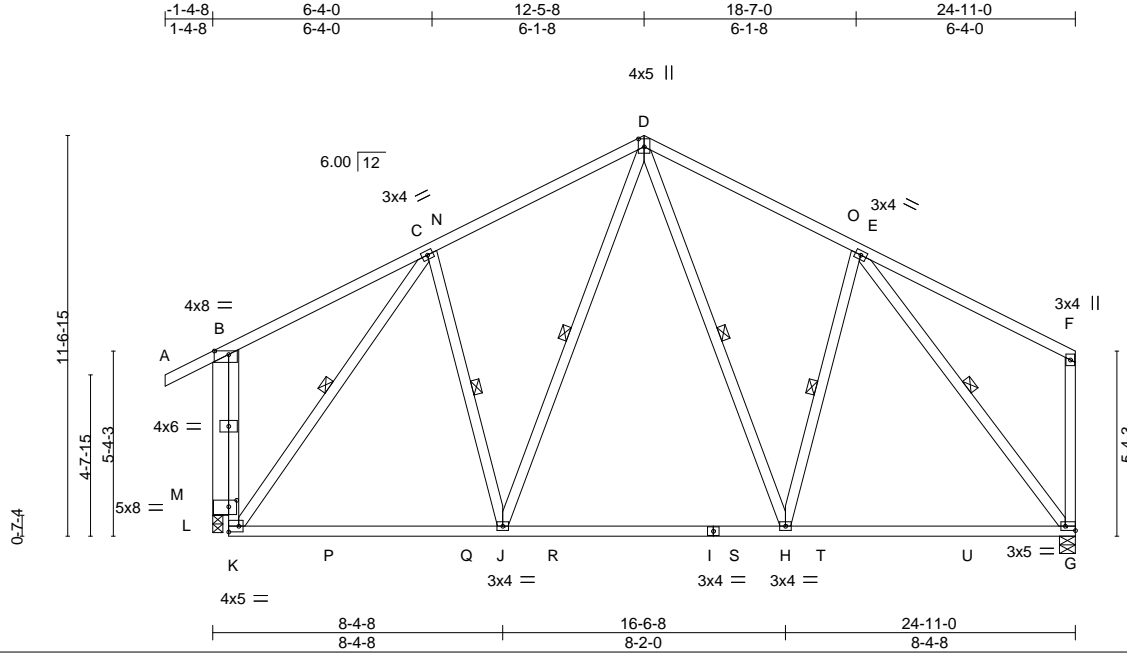
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	A4	COMMON	5	1	U1489112

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:42 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:66.6

Plate Offsets (X,Y)-- [B:0-5-0,0-1-4], [D:0-2-12,0-2-0], [G:Edge,0-1-8], [K:Edge,0-2-0], [L:0-2-12,0-2-4]

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	TC 0.71 BC 0.74 WB 0.60 Matrix-MS	Vert(LL) -0.19 Vert(CT) -0.31 Horz(CT) 0.03 Wind(LL) 0.02	G-H G-H G H-J	>999 >947 n/a >999	360 240 n/a 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES Code IBC2018/TPI2014						Weight: 149 lb	FT = 20%
BCLL 0.0 *								
BCDL 10.0								

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 OTHERS 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt D-H, E-H, D-J, C-J, C-K, E-G

REACTIONS.

(size) G=0-5-8, M=0-3-8
 Max Horz M=181(LC 9)
 Max Uplift G=-86(LC 11), M=-113(LC 10)
 Max Grav G=1305(LC 4), M=1385(LC 3)

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

TOP CHORD C-D=-1014/171, D-E=-1028/152, K-L=-2/1042, B-L=-2/1042
 BOT CHORD J-K=-76/784, H-J=-33/736, G-H=-73/779
 WEBS D-H=-70/324, E-H=-64/278, D-J=-80/297, C-J=-54/276, C-K=-1101/44, E-G=-1249/75,
 B-M=-1391/114

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) M considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) M=113.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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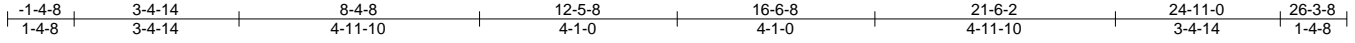


PRCNC20240278

Job N0652	Truss A5	Truss Type Roof Special	Qty 13	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489113
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:43 2023 Page 1

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Scale: 1/4"=1'

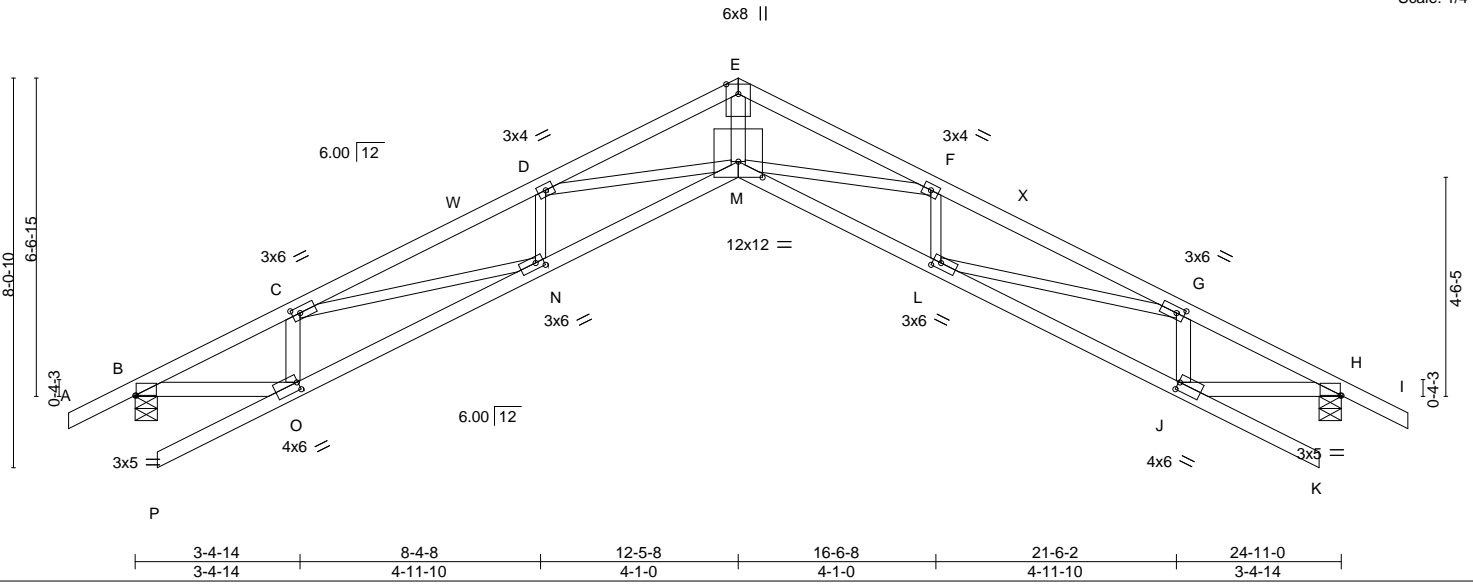


Plate Offsets (X,Y)-- [B:0-0-4,0-0-0], [C:0-2-0,0-1-8], [G:0-2-0,0-1-8], [H:0-0-4,0-0-0], [J:0-0-4,0-2-0], [L:0-2-0,0-1-8], [M:0-6-0,0-3-15], [N:0-2-0,0-1-8], [O:0-0-4,0-2-0]

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 0.85 BC 0.63 WB 0.98 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.44 M >682 360 Vert(CT) -0.84 M >356 240 Horz(CT) 0.63 H n/a n/a Wind(LL) 0.20 M >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES			Weight: 96 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 M-P,K-M: 2x4 SPF 2100F 1.8E
 WEBS 2x3 SPF No.2 *Except*
 E-M,G-J,C-O: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) B=0-5-8, H=0-5-8
 Max Horz B=90(LC 14)
 Max Uplift B=-92(LC 10), H=-92(LC 11)
 Max Grav B=1354(LC 17), H=1354(LC 18)

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

TOP CHORD B-C=-2454/132, C-D=-4491/284, D-E=-4830/163, E-F=-4830/175, F-G=-4491/141,
 G-H=-2454/131
 BOT CHORD B-O=-162/2169, N-O=-183/2364, M-N=-269/4421, L-M=-71/4421, J-L=-85/2364,
 H-J=-71/2169
 WEBS E-M=-93/3984, F-M=0/747, F-L=-555/62, G-L=-53/1856, G-J=-918/103, D-M=0/747,
 D-N=-555/72, C-N=-80/1856, C-O=-918/147

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) The Fabrication Tolerance at joint M = 16%
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/30/2020 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	A6	Roof Special	7	1	U1489114

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:44 2023 Page 1

ID:JK8PGHl_IZFBZzFFoAPRzZDHFg-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:44.2

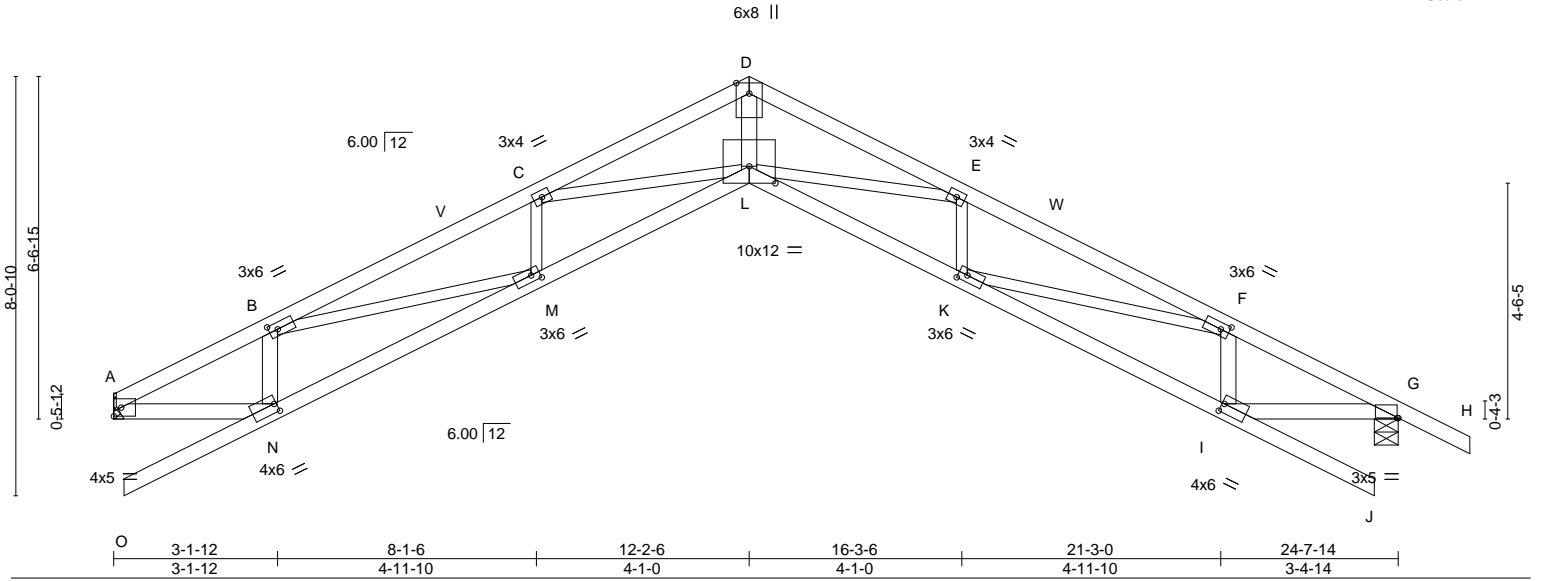


Plate Offsets (X,Y)-- [B:0-2-0,0-1-8], [F:0-2-0,0-1-8], [G:0-0-4,0-0-0], [I:0-0-8,0-2-0], [K:0-2-0,0-1-8], [L:0-6-0,0-3-15], [M:0-2-0,0-1-8], [N:0-0-8,0-2-0]

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 0.84 BC 0.84 WB 0.96 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.43 L >692 360 Vert(CT) -0.82 L >363 240 Horz(CT) 0.62 G n/a n/a Wind(LL) 0.19 L >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES			Weight: 94 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 L-O,J-L: 2x4 SPF 2100F 1.8E
 WEBS 2x3 SPF No.2 *Except*
 B-N,D-L,F-I: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) A=Mechanical, G=0-5-8
 Max Horz A=-101(LC 11)
 Max Uplift A=-67(LC 10), G=-92(LC 11)
 Max Grav A=1232(LC 17), G=1345(LC 18)

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

TOP CHORD A-B=-2300/135, B-C=-4387/286, C-D=-4750/165, D-E=-4749/176, E-F=-4444/142,
 F-G=-2435/132
 BOT CHORD A-N=-165/2013, M-N=-186/2194, L-M=-271/4319, K-L=-72/4374, I-K=-85/2345,
 G-I=-71/2152
 WEBS B-N=-890/147, B-M=-78/1919, C-M=-569/72, C-L=0/761, D-L=-95/3913, E-L=0/720,
 E-K=-546/62, F-K=-54/1831, F-I=-910/103

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) The Fabrication Tolerance at joint L = 16%
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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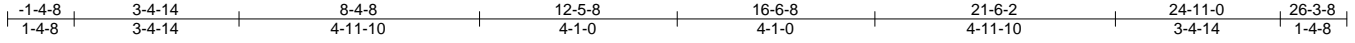


PRCNC20240278

Job N0652	Truss A7	Truss Type GABLE	Qty 1	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA Job Reference (optional)	U1489115
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:45 2023 Page 1

ID:MSVHNjm5b_42pCDnn4nvTzDaHx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale: 1/4"=1'

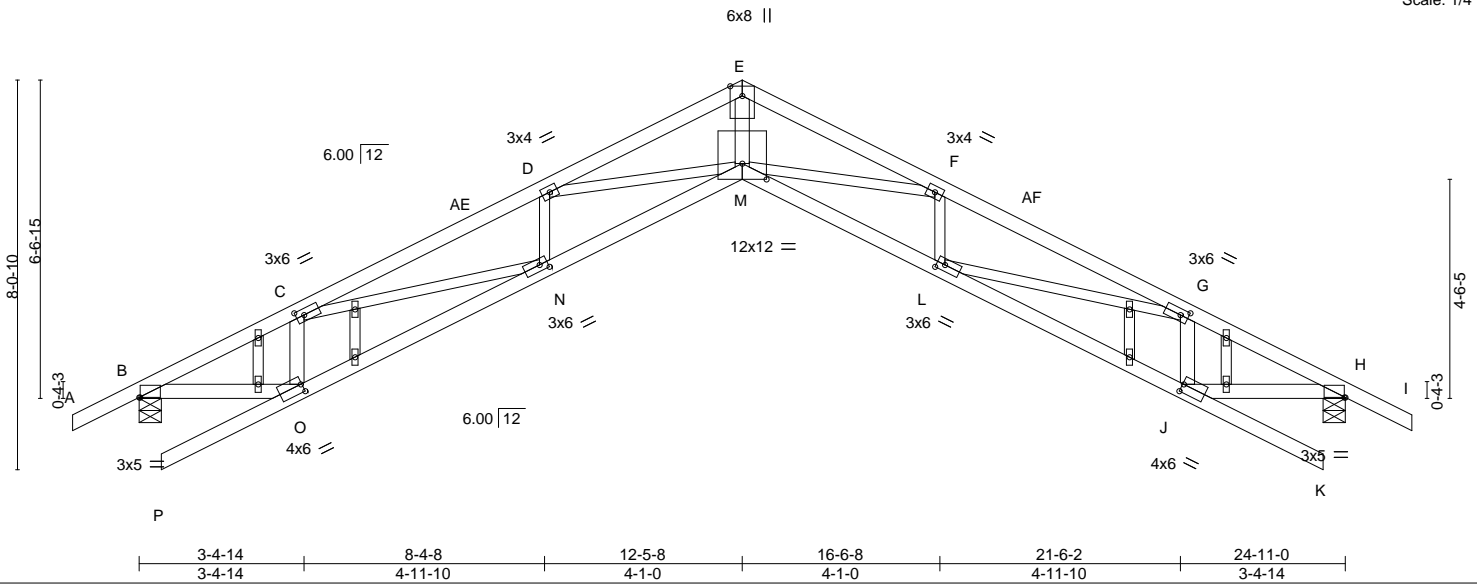


Plate Offsets (X,Y)--	[B:0-0-4,0-0-0], [C:0-2-0,0-1-8], [G:0-2-0,0-1-8], [H:0-0-4,0-0-0], [J:0-0-4,0-2-0], [L:0-2-0,0-1-8], [M:0-6-0,0-3-15], [N:0-2-0,0-1-8], [O:0-0-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.85	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.63	Vert(LL) -0.44 M >682 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Vert(CT) -0.84 M >356 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.63 H n/a n/a		
			Wind(LL) 0.20 M >999 240	Weight: 99 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) B=0-5-8, H=0-5-8
 Max Horz B=90(LC 14)
 Max Uplift B=-92(LC 10), H=-92(LC 11)
 Max Grav B=1354(LC 17), H=1354(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2454/132, C-D=-4491/284, D-E=-4830/163, E-F=-4830/175, F-G=-4491/141, G-H=-2454/131
 BOT CHORD B-O=-162/2169, N-O=-183/2364, M-N=-269/4421, L-M=-71/4421, J-L=-85/2364, H-J=-71/2169
 WEBS E-M=-93/3984, F-M=0/747, F-L=-555/62, G-L=-53/1856, G-J=-918/103, D-M=0/747, D-N=-555/72, C-N=-80/1856, C-O=-918/147

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 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) The Fabrication Tolerance at joint M = 16%
 - 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 20.0psf 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) B, H.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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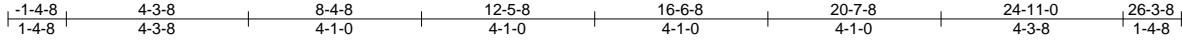
Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	A8	Roof Special	7	1	U1489116

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:46 2023 Page 1

ID:JK8PGHl_IZFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Job Reference (optional)



6x8 ||

Scale = 1:54.3

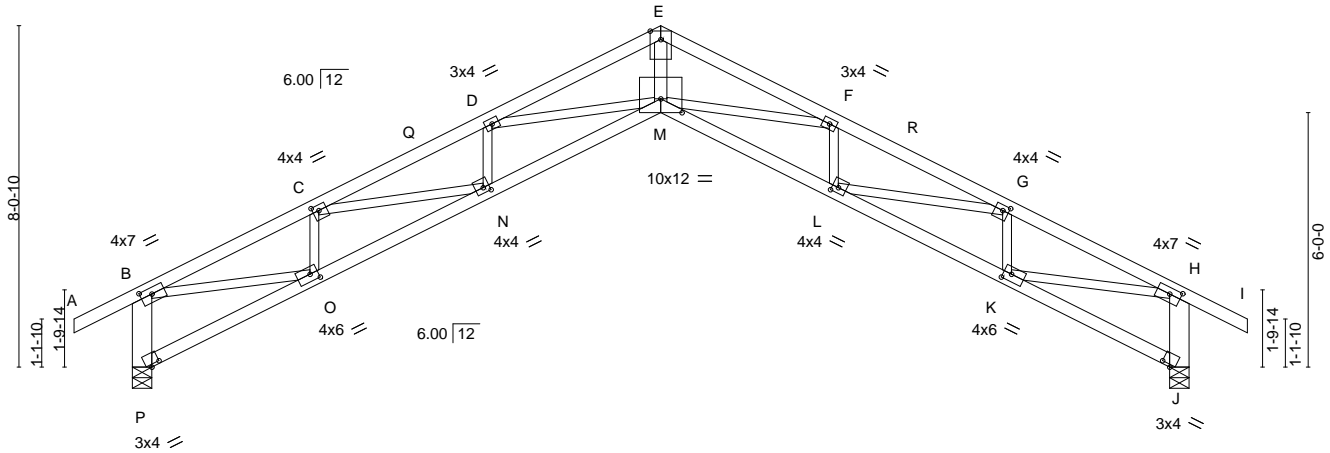


Plate Offsets (X,Y)--	[B:0-3-4,0-1-12], [C:0-1-12,0-1-8], [G:0-1-12,0-1-8], [H:0-3-4,0-1-12], [J:0-2-10,0-0-12], [K:0-2-4,0-2-0], [L:0-1-12,0-1-8], [M:0-6-0,0-3-15], [N:0-1-12,0-1-8], [O:0-2-4,0-2-0], [P:0-2-10,0-0-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.82	Vert(LL) -0.41	M	>722	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.77	M	>382	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.85	J	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.18	M	>999	240	Weight: 98 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
B-P,H-J: 2x6 SPF No.2, E-M: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) P=0-5-8, J=0-5-8
Max Horz P=-115(LC 8)
Max Uplift P=-119(LC 10), J=-119(LC 11)
Max Grav P=1294(LC 17), J=1294(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-P=-1268/165, B-C=-2640/239, C-D=-4222/297, D-E=-4569/137, E-F=-4569/149, F-G=-4222/174, G-H=-2640/178, H-J=-1268/142
BOT CHORD N-O=-255/2575, M-N=-247/4171, L-M=-142/2575
WEBS E-M=-64/3738, F-M=-13/732, F-L=-523/45, G-L=-5/1430, G-K=-877/89, H-K=-106/2241, D-M=0/732, D-N=-523/41, C-N=0/1430, C-O=-877/112, B-O=-160/2241

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCCL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 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 20.0psf 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) Bearing at joint(s) P, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=119, J=119.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

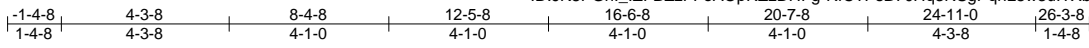


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Bradford, ON. L3Z 4L5

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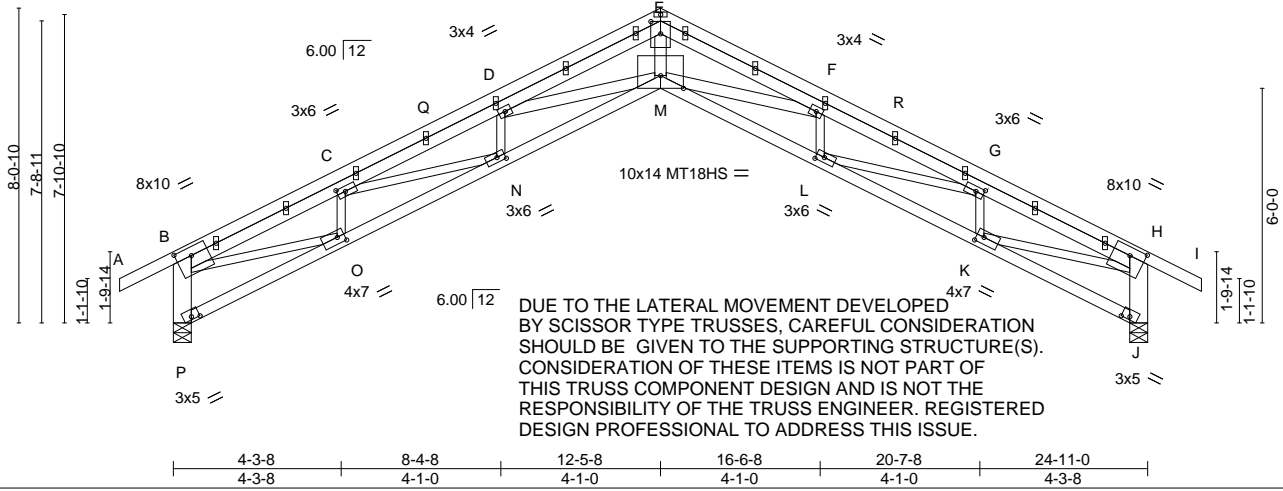
Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489117
N0652	A9	GABLE	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:47 2023 Page 1



6x8 ||

Scale = 1:58.9



DUE TO THE LATERAL MOVEMENT DEVELOPED BY SCISSOR TYPE TRUSSES, CAREFUL CONSIDERATION SHOULD BE GIVEN TO THE SUPPORTING STRUCTURE(S). CONSIDERATION OF THESE ITEMS IS NOT PART OF THIS TRUSS COMPONENT DESIGN AND IS NOT THE RESPONSIBILITY OF THE TRUSS ENGINEER. REGISTERED DESIGN PROFESSIONAL TO ADDRESS THIS ISSUE.

Plate Offsets (X,Y)-- [B:0-4-12,0-2-8], [C:0-2-8,0-1-8], [E:0-3-12,0-3-0], [G:0-2-8,0-1-8], [H:0-4-12,0-2-8], [J:0-2-8,0-0-15], [K:0-2-4,0-2-0], [L:0-2-8,0-1-8], [M:0-7-0,0-3-15], [N:0-2-8,0-1-8], [O:0-2-4,0-2-0], [P:0-2-8,0-0-15]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) -0.59 M >496 360	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Vert(CT) -1.12 M >262 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 1.22 J n/a n/a		
	Code IBC2018/TPI2014		Wind(LL) 0.26 M >999 240	Weight: 131 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
B-P,H-J: 2x6 SPF No.2, E-M: 2x4 SPF 2100F 1.8E
F-M,D-M: 2x4 SPF No.2

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

REACTIONS. (size) P=0-5-8, J=0-5-8
Max Horz P=-107(LC 8)
Max Uplift P=-120(LC 10), J=-120(LC 11)
Max Grav P=1294(LC 17), J=1294(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-P=-1266/166, B-C=-3143/282, C-D=-5119/353, D-E=-5588/163, E-F=-5588/174,
F-G=-5119/203, G-H=-3143/209, H-J=-1266/143
BOT CHORD N-O=-319/3223, M-N=-314/5143, L-M=-109/5143, K-L=-190/3223
WEBS E-M=-90/4663, F-M=-14/866, F-L=-546/49, G-L=-7/1662, G-K=-1020/103, H-K=-139/2730,
D-M=0/866, D-N=-546/43, C-N=0/1662, C-O=-1020/130, B-O=-205/2730

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 8) The Fabrication Tolerance at joint M = 0%
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * This truss has been designed for a live load of 20.0psf 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.
 - 12) Bearing at joint(s) P, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=120, J=120.



May 26, 2023

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489117
N0652	A9	GABLE	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:47 2023 Page 2
 ID:JK8PGhl_IzFBzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

NOTES-

- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

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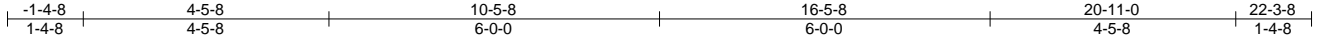
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	B1	GABLE	2	1	U1489118

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:49 2023 Page 1

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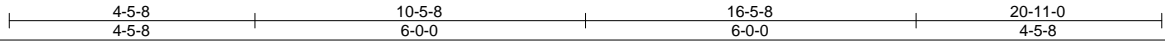
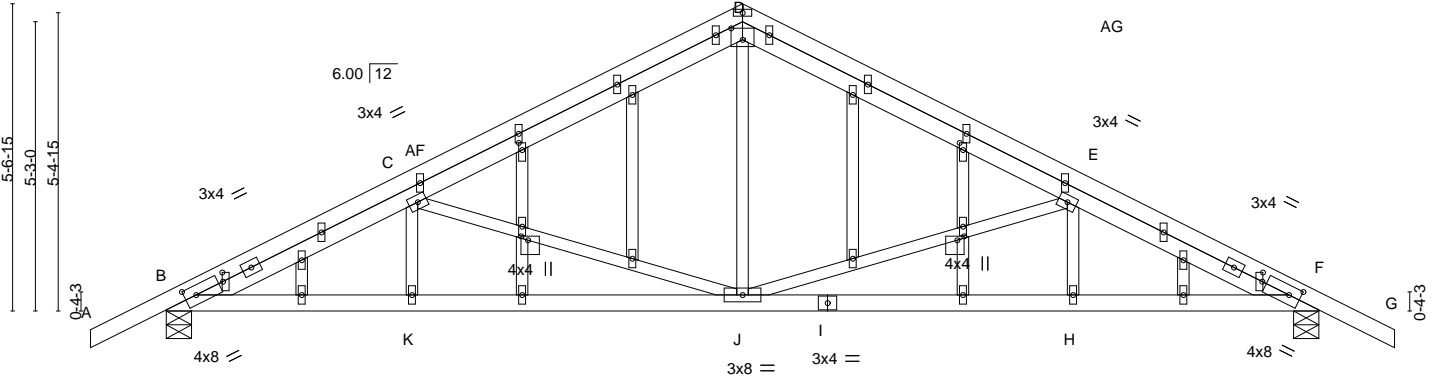


Plate Offsets (X,Y)-- [B:0-2-8,0-2-0], [D:0-2-8,0-2-8], [F:0-2-8,0-2-0], [N:0-0-14,0-1-8], [O:0-1-9,0-0-12], [U:0-1-9,0-0-12], [W:0-0-14,0-1-8], [AA:0-2-0,0-0-2], [AD:0-2-0,0-0-2]

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 0.84 BC 0.74 WB 0.86 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.09 H-J >999 360 Vert(CT) -0.18 H-J >999 240 Horz(CT) 0.05 F n/a n/a Wind(LL) 0.04 J-K >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES			Weight: 106 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) B=0-5-8, F=0-5-8
 Max Horz B=83(LC 10)
 Max Uplift B=-129(LC 10), F=-109(LC 11)
 Max Grav B=1198(LC 17), F=1129(LC 18)

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

TOP CHORD B-C=-2047/154, C-D=-1281/108, D-E=-1279/109, E-F=-2032/149
 BOT CHORD B-K=-166/1843, J-K=-166/1842, H-J=-88/1828, F-H=-88/1828
 WEBS D-J=0/591, E-J=-861/147, C-J=-875/152

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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) B=129, F=109.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.



May 26, 2023

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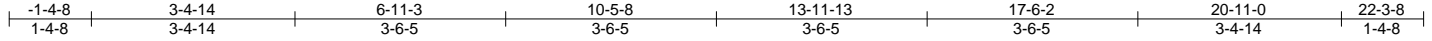
PRCNC20240278

Job N0652	Truss B2	Truss Type Roof Special	Qty 11	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489119
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:50 2023 Page 1

ID:JK8PGhl_IzFBZzFFoAOpRzZDHfG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:38.5

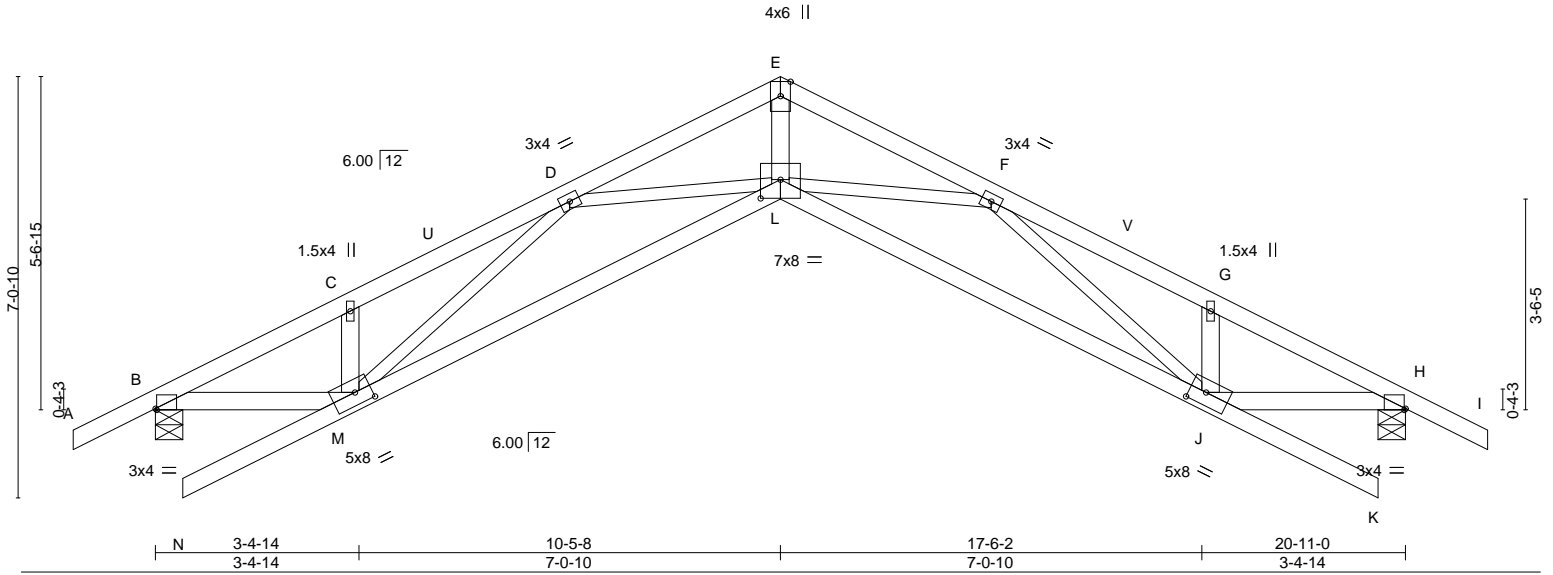


Plate Offsets (X,Y)-- [B:0-0-4,Edge], [H:0-0-4,Edge], [J:0-3-4,0-2-8], [L:0-4-0-0-3-12], [M:0-3-4,0-2-8]

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 0.49 BC 0.90 WB 0.92 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.24 L >999 360 Vert(CT) -0.47 J-L >532 240 Horz(CT) 0.36 H n/a n/a Wind(LL) 0.11 L >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES Code IBC2018/TPI2014			Weight: 82 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 E-L,G-J,C-M: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-8-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, H=0-5-8
 Max Horz B=77(LC 10)
 Max Uplift B=-79(LC 10), H=-79(LC 11)
 Max Grav B=1183(LC 17), H=1183(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1930/69, C-D=-1999/138, D-E=-3438/105, E-F=-3438/116, F-G=-1999/140,
 G-H=-1930/74
 BOT CHORD B-M=-92/1700, L-M=-213/3131, J-L=-73/3131, H-J=-18/1700
 WEBS E-L=-43/2759, F-L=0/642, F-J=-1462/87, G-J=-304/101, D-L=0/642, D-M=-1462/103,
 C-M=-304/105

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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=1.0; 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 18.0 psf or 2.00 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 20.0psf 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) B, H.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	B3	ROOF SPECIAL	1	1	U1489120

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:50 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRzZDFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:38.2

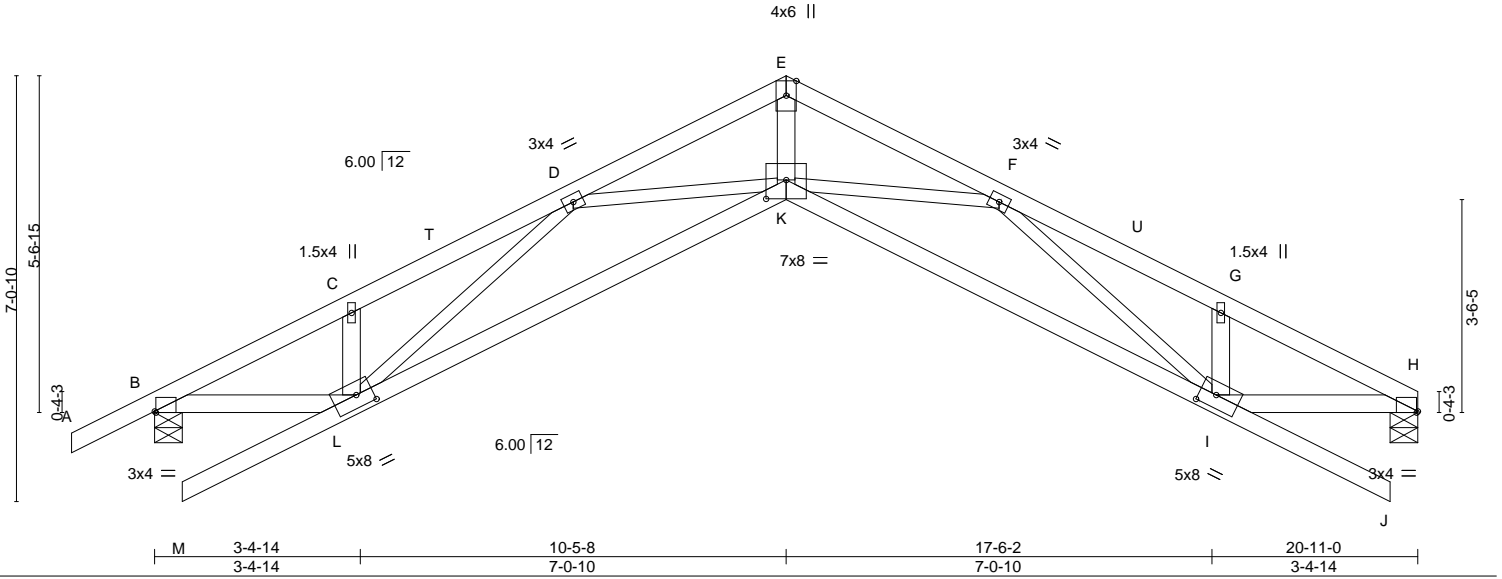


Plate Offsets (X,Y)-- [B:0-0-4,Edge], [C:0-0-0,0-0-0], [D:0-0-0,0-0-0], [H:0-0-4,Edge], [I:0-3-4,0-2-8], [K:0-4-0,0-3-12], [L:0-3-4,0-2-8]

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 0.49 BC 0.90 WB 0.92 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.24 K >999 360 Vert(CT) -0.48 K-L >528 240 Horz(CT) 0.36 H n/a n/a Wind(LL) 0.11 K >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES			Weight: 80 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 E-K,G-I,C-L: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) H=0-5-8, B=0-5-8
 Max Horz B=86(LC 10)
 Max Uplift H=-54(LC 11), B=-79(LC 10)
 Max Grav H=1078(LC 18), B=1184(LC 17)

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

TOP CHORD B-C=-1934/69, C-D=-2002/138, D-E=-3461/127, E-F=-3460/138, F-G=-2045/154,
 G-H=-1960/85
 BOT CHORD B-L=-101/1704, K-L=-234/3139, I-K=-96/3161, H-I=-48/1739
 WEBS E-K=-62/2778, F-K=0/639, F-I=-1442/98, G-I=-319/107, D-K=0/649, D-L=-1467/116,
 C-L=-304/106

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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) H, B.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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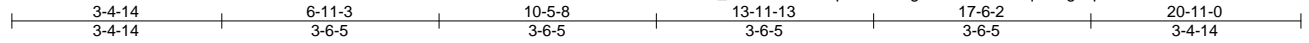
PRCNC20240278

Job N0652	Truss B4	Truss Type ROOF SPECIAL	Qty 7	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489121
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:51 2023 Page 1

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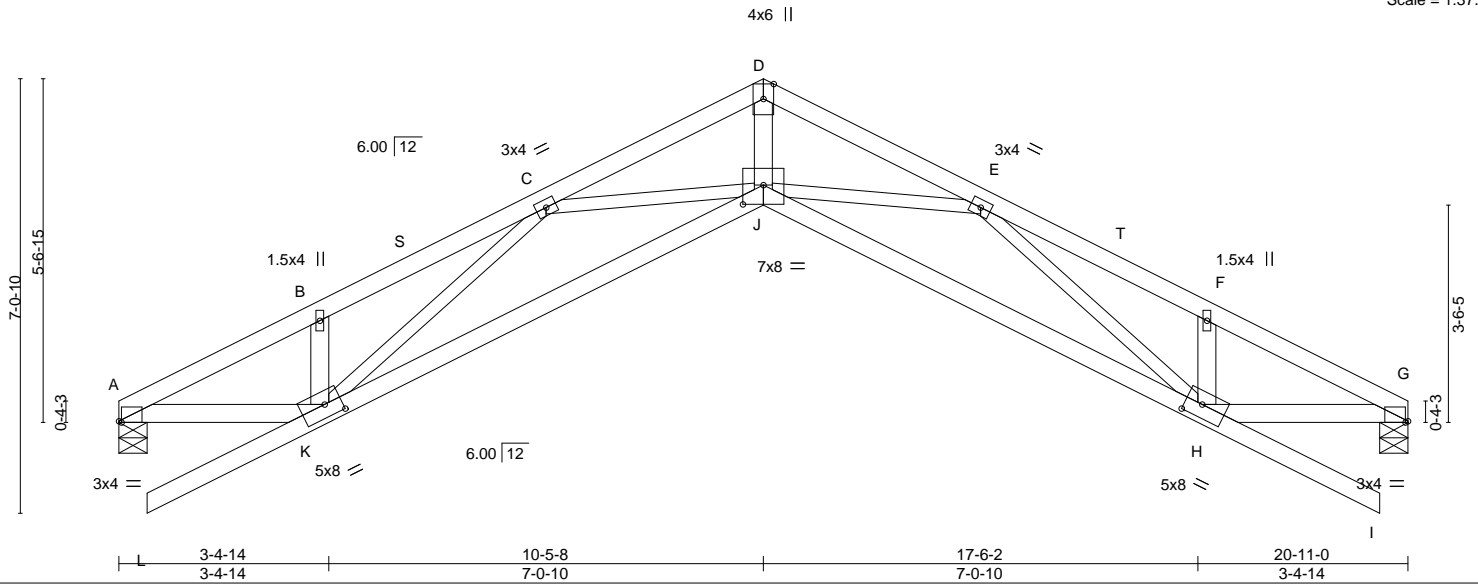


Plate Offsets (X,Y)-- [A:0-0-8,Edge], [B:0-0-0,0-0-0], [C:0-0-0,0-0-0], [G:0-0-8,Edge], [H:0-3-4,0-2-8], [J:0-4-0,0-3-12], [K:0-3-4,0-2-8]

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.25	J	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.48	J-K	>526	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.36	G	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.11	J	>999	240	Weight: 79 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 D-J,F-H,B-K: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) A=0-5-8, G=0-5-8
 Max Horz A=68(LC 10)
 Max Uplift A=-54(LC 10), G=-54(LC 11)
 Max Grav A=1079(LC 16), G=1079(LC 17)

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

TOP CHORD A-B=-1964/82, B-C=-2049/153, C-D=-3483/134, D-E=-3482/145, E-F=-2049/155,
 F-G=-1964/86
 BOT CHORD A-K=-113/1742, J-K=-243/3169, H-J=-100/3168, G-H=-48/1742
 WEBS D-J=-68/2797, E-J=0/646, E-H=-1447/101, F-H=-319/107, C-J=0/645, C-K=-1448/110,
 B-K=-319/110

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

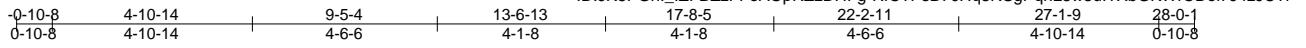


240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	C1	GABLE	1	1	U1489122

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:53 2023 Page 1



4x8 ||
2x4 =
Scale = 1:56.5

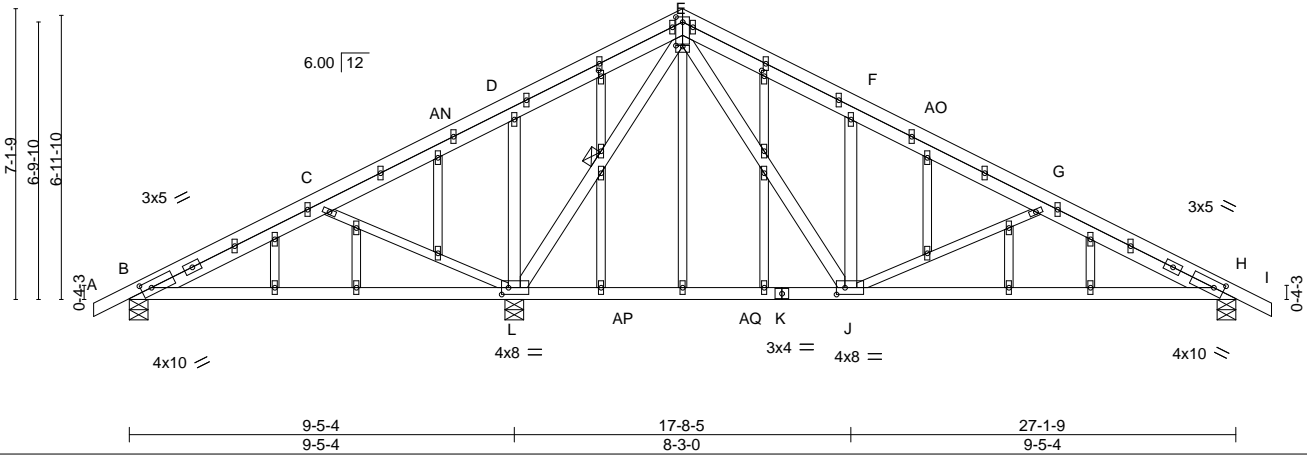


Plate Offsets (X,Y)-- [B:0-3-0,0-2-0], [E:0-2-0,0-0-4], [E:0-1-8,0-2-0], [H:0-3-0,0-2-0], [J:0-2-8,0-2-0], [L:0-2-0,0-2-0], [O:0-1-11,0-0-12], [Y:0-1-11,0-0-12]

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	TC 0.38 BC 0.72 WB 0.31 Matrix-MS	Vert(LL) -0.13 Vert(CT) -0.27 Horz(CT) 0.02 Wind(LL) 0.02	J-AM L-AJ H L-AJ	>999 >403 n/a >999	360 240 n/a 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES						Weight: 157 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014							
BCDL 10.0								

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
G-J,C-L: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) B=0-5-8, L=0-5-8, H=0-5-8
Max Horz B=100(LC 10)
Max Uplift B=-37(LC 10), L=-163(LC 10), H=-87(LC 11)
Max Grav B=466(LC 17), L=1542(LC 2), H=901(LC 4)

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

TOP CHORD B-C=-289/98, C-D=-108/389, D-E=-30/386, E-F=-1068/145, F-G=-1045/68, G-H=-1448/141
BOT CHORD J-L=0/303, H-J=-74/1292
WEBS E-J=-134/1062, F-J=-483/142, G-J=-493/141, E-L=-1038/131, D-L=-476/140,
C-L=-458/138

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H except (jt=lb) L=163.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) No notches allowed in overhang and 1008 from left end and 1008 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.



May 26, 2023

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PRCNC20240278

Job N0652	Truss C2	Truss Type Common	Qty 7	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489123
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:54 2023 Page 1
 ID:JK8PGhl_IZFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
 0-10-8 4-10-14 9-5-4 13-6-13 17-8-5 22-2-11 27-1-9 28-0-1
 0-10-8 4-10-14 4-6-6 4-1-8 4-1-8 4-6-6 4-10-14 0-10-8

Scale: 1/4"=1'

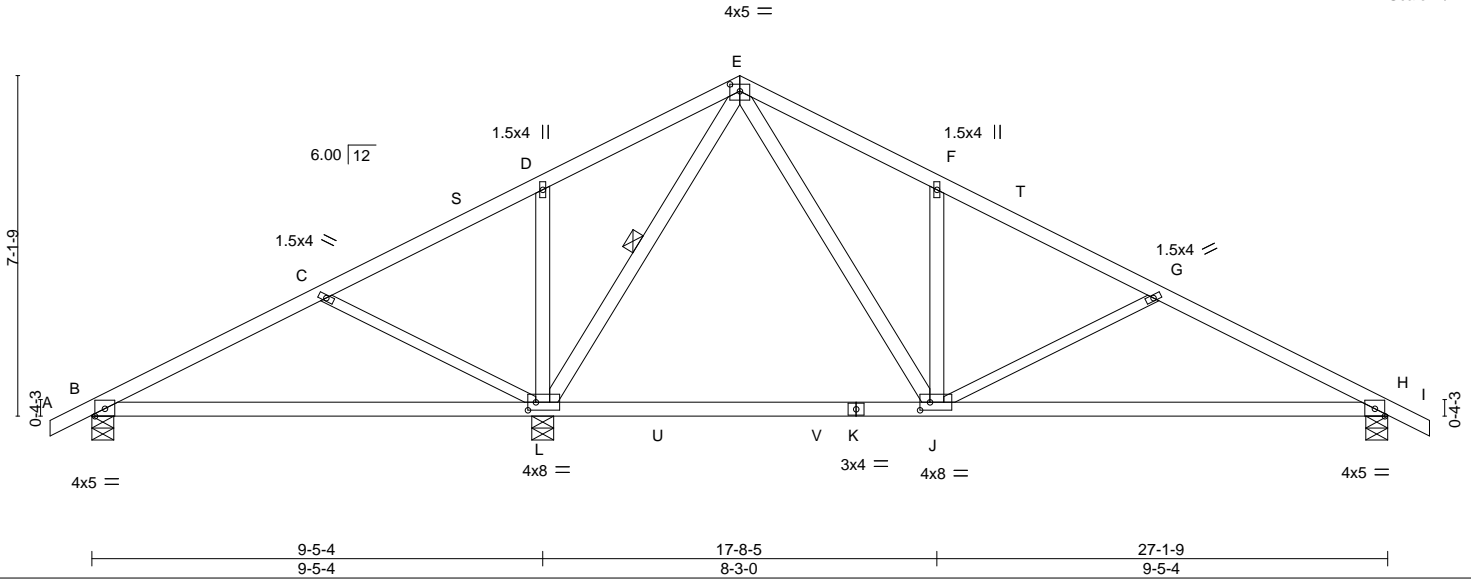


Plate Offsets (X,Y)-- [E:0-2-8,0-1-12], [J:0-2-8,0-2-0], [L:0-2-0,0-2-0]

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 0.43 BC 0.75 WB 0.34 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.15 J-R >999 360 Vert(CT) -0.32 J-R >663 240 Horz(CT) 0.02 H n/a n/a Wind(LL) 0.04 J-R >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES Code IBC2018/TPI2014			Weight: 104 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 G-J,C-L: 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt E-L

REACTIONS. (size) B=0-5-8, L=0-5-8, H=0-5-8
 Max Horz B=-94(LC 15)
 Max Uplift B=-27(LC 10), L=-142(LC 10), H=-94(LC 11)
 Max Grav B=350(LC 17), L=1664(LC 2), H=865(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-69/462, D-E=0/450, E-F=-958/175, F-G=-938/96, G-H=-1306/159
 BOT CHORD H-J=-83/1141
 WEBS E-J=-140/1051, F-J=-478/142, G-J=-445/138, E-L=-1091/90, D-L=-482/143,
 C-L=-453/139

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H except (jt=lb) L=142.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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MiTek
 240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489124
N0652	CS1	Jack-Open	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:55 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

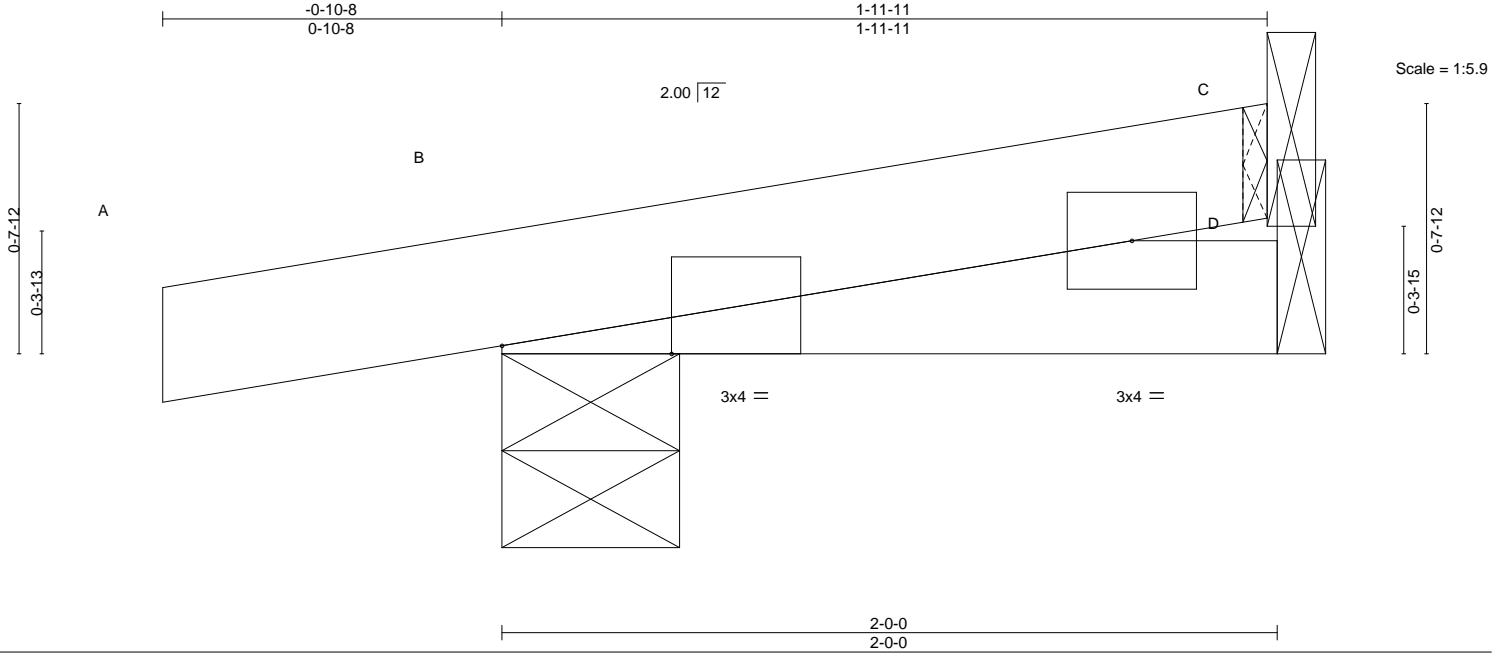


Plate Offsets (X,Y)-- [B:0-5-4,Edge] 2-0-0 2-0-0

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	TC 0.09	Vert(LL)	-0.00	E	>999	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	E	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	C	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP	Wind(LL)	0.00	E	>999	Weight: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, B=0-5-8, D=Mechanical
 Max Horz B=16(LC 6)
 Max Uplift C=-3(LC 10), B=-45(LC 6), D=-6(LC 10)
 Max Grav C=49(LC 17), B=206(LC 17), D=42(LC 17)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 20.0 psf or 2.00 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 20.0psf 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) C, B, D.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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MiTek
 240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	CS2	Jack-Open	1	1	U1489125

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:55 2023 Page 1

ID:JK8PGhI_ZFBZzFFoAOpRzZDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7J4zJC?F



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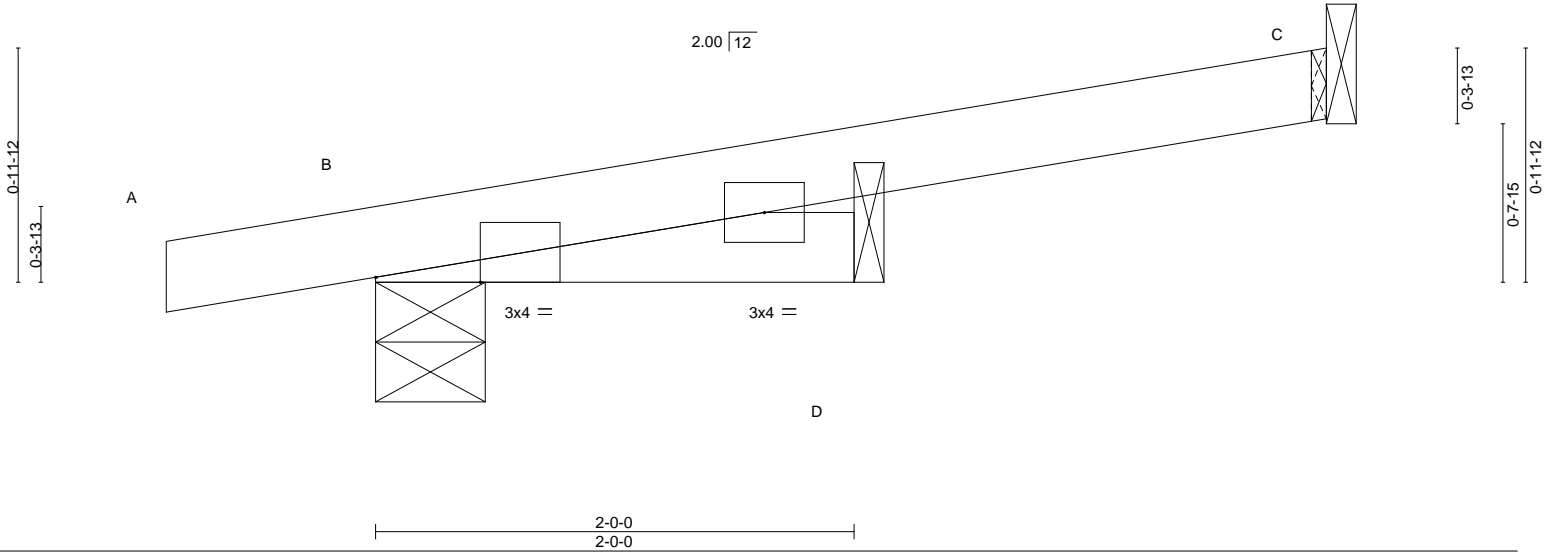


Plate Offsets (X,Y)-- [B:0-5-4,Edge]

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	TC 0.09	Vert(LL)	-0.00	E	>999	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.00	G	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	C	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP	Wind(LL)	0.00	E	>999	Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=26(LC 6)
Max Uplift C=20(LC 6), B=42(LC 6), D=34(LC 10)
Max Grav C=86(LC 17), B=212(LC 17), D=200(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) C, B, D.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	CS3	Jack-Open	1	1	U1489126

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:56 2023 Page 1

ID:JK8PGhl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



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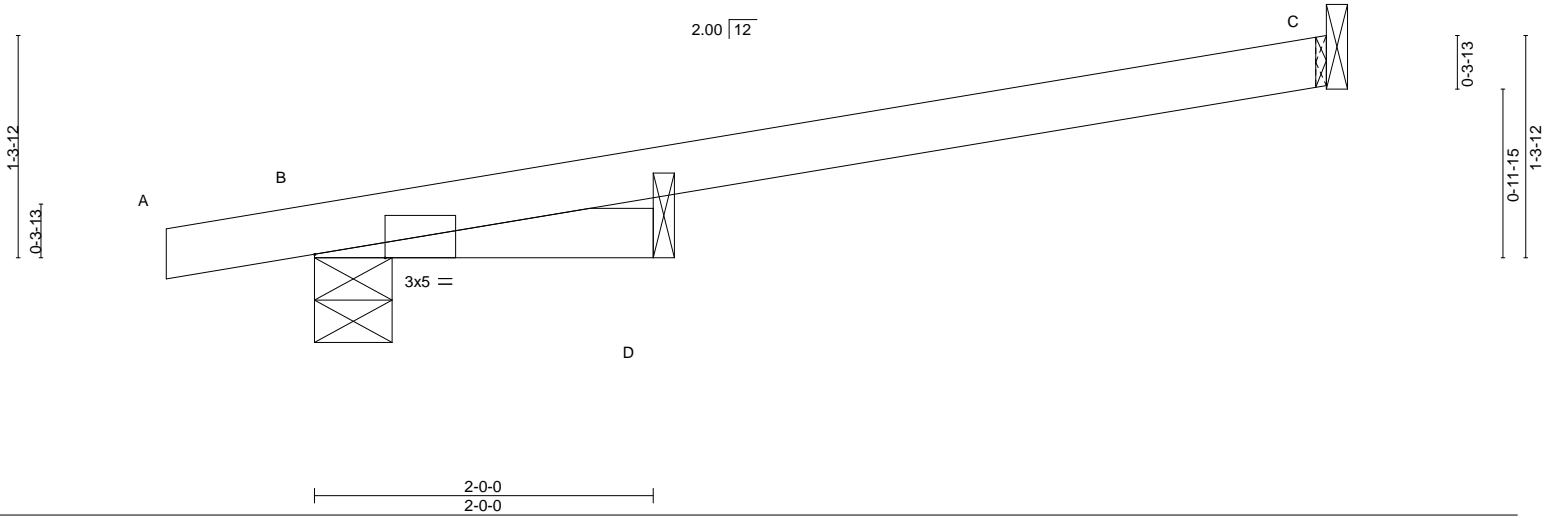


Plate Offsets (X,Y)-- [B:0-5-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.35	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.24	Vert(LL) -0.00 G >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.00 G >999 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP	Horz(CT) -0.00 C n/a n/a		
			Wind(LL) 0.00 E >999 240	Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=36(LC 6)
Max Uplift C=37(LC 6), B=28(LC 6), D=75(LC 10)
Max Grav C=158(LC 17), B=162(LC 16), D=374(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) C, B, D.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

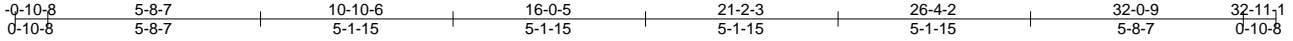
PRCNC20240278

Job N0652	Truss D1	Truss Type GABLE	Qty 1	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489127
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:57 2023 Page 1

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4x5 ||

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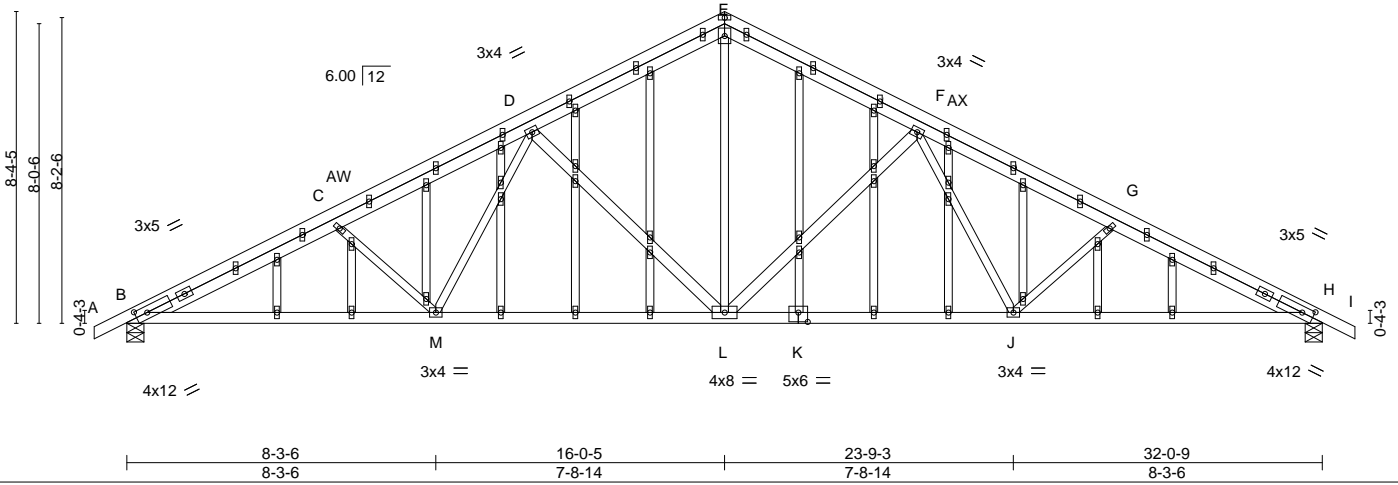


Plate Offsets (X,Y)-- [B:0-3-12,0-2-0], [H:0-3-12,0-2-0], [K:0-3-0,0-3-0]

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	TC 0.56	Vert(LL) -0.18	J-L	>999	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.37	J-L	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.11	H	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.09	L-M	>999	240	Weight: 193 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 F-L,D-L: 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-11-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, H=0-5-8
 Max Horz B=116(LC 10)
 Max Uplift B=-163(LC 10), H=-143(LC 11)
 Max Grav B=1637(LC 1), H=1567(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2985/256, C-D=-2648/222, D-E=-1819/179, E-F=-1819/180, F-G=-2641/219,
 G-H=-2976/253
 BOT CHORD B-M=-280/2651, L-M=-162/2068, J-L=-65/2065, H-J=-170/2641
 WEBS E-L=-73/1185, F-L=-852/173, F-J=-22/518, G-J=-484/146, D-L=-855/174, D-M=-25/526,
 C-M=-489/148

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 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 20.0psf 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) B=163, H=143.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) No notches allowed in overhang and 1008 from left end and 1008 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.



May 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489128
N0652	D2	Common	5	1		

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 14:59:59 2023 Page 1

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0-10-8 5-8-7 10-10-6 16-0-5 21-2-3 26-4-2 32-0-9 32-11-1
 0-10-8 5-8-7 5-1-15 5-1-15 5-1-15 5-1-15 5-1-15 5-8-7 0-10-8

4x5 ||

Scale = 1:58.6

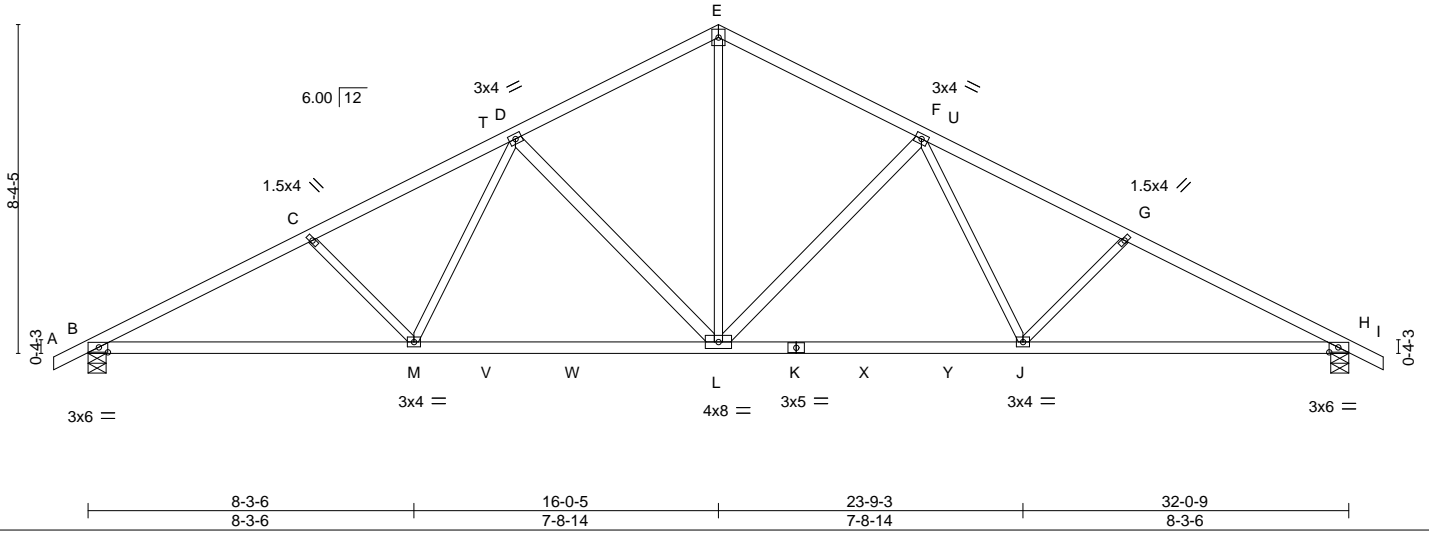


Plate Offsets (X,Y)-- [B:0-2-12,0-1-8], [H:0-2-12,0-1-8]

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 0.56 BC 0.99 WB 0.82 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.21 L-M >999 360 Vert(CT) -0.37 L-M >999 240 Horz(CT) 0.12 H n/a n/a Wind(LL) 0.07 M-P >999 240	MT20	197/144
TCDL 12.0	Rep Stress Incr YES			Weight: 118 lb	FT = 20%
BCLL 0.0 *	Code IBC2018/TPI2014				
BCDL 10.0					

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 F-L,D-L: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) B=0-5-8, H=0-5-8
 Max Horz B=-110(LC 11)
 Max Uplift B=-139(LC 10), H=-139(LC 11)
 Max Grav B=1632(LC 2), H=1632(LC 2)

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

TOP CHORD B-C=-2942/242, C-D=-2718/221, D-E=-1881/182, E-F=-1881/182, F-G=-2718/221,
 G-H=-2942/242
 BOT CHORD B-M=-262/2597, L-M=-152/2099, J-L=-60/2099, H-J=-152/2597
 WEBS E-L=-78/1317, F-L=-822/173, F-J=-29/622, G-J=-390/142, D-L=-822/173, D-M=-29/622,
 C-M=-390/142

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=139, H=139.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job N0652	Truss G1	Truss Type Common	Qty 16	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489129
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:00 2023 Page 1

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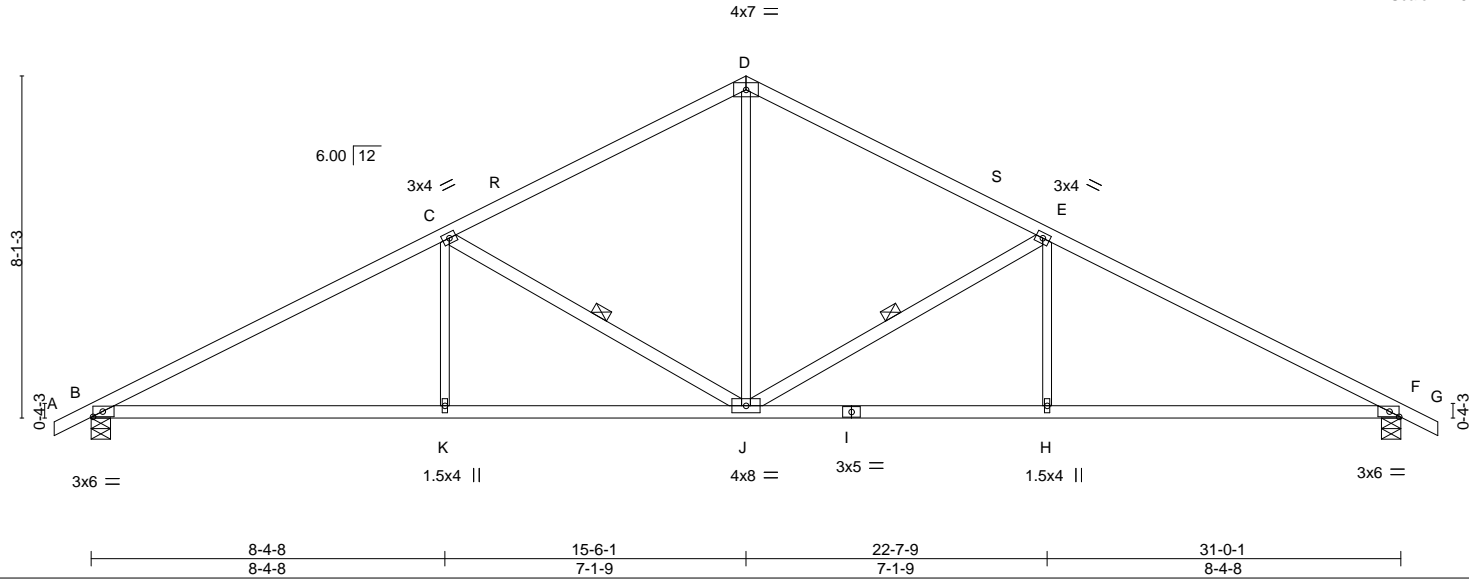


Plate Offsets (X,Y)-- [B:0-2-12,0-1-8], [F:0-2-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.64	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.94	Vert(LL) -0.16 K-N >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Vert(CT) -0.36 K-N >999 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.11 F n/a n/a		
			Wind(LL) 0.11 K-N >999 240	Weight: 108 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* E-J,C-J: 2x4 SPF No.2	WEBS 1 Row at midpt E-J, C-J

REACTIONS. (size) B=0-5-8, F=0-5-8
 Max Horz B=-107(LC 15)
 Max Uplift B=-135(LC 10), F=-135(LC 11)
 Max Grav B=1522(LC 1), F=1522(LC 1)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2618/206, C-D=-1782/174, D-E=-1782/174, E-F=-2618/206
 BOT CHORD B-K=-204/2246, J-K=-204/2246, H-J=-97/2246, F-H=-97/2246
 WEBS D-J=-44/1029, E-J=-1007/198, E-H=0/338, C-J=-1007/197, C-K=0/338

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 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 20.0psf 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) except (jt=lb) B=135, F=135.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	H1	GABLE	1	1	U1489130

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:01 2023 Page 1

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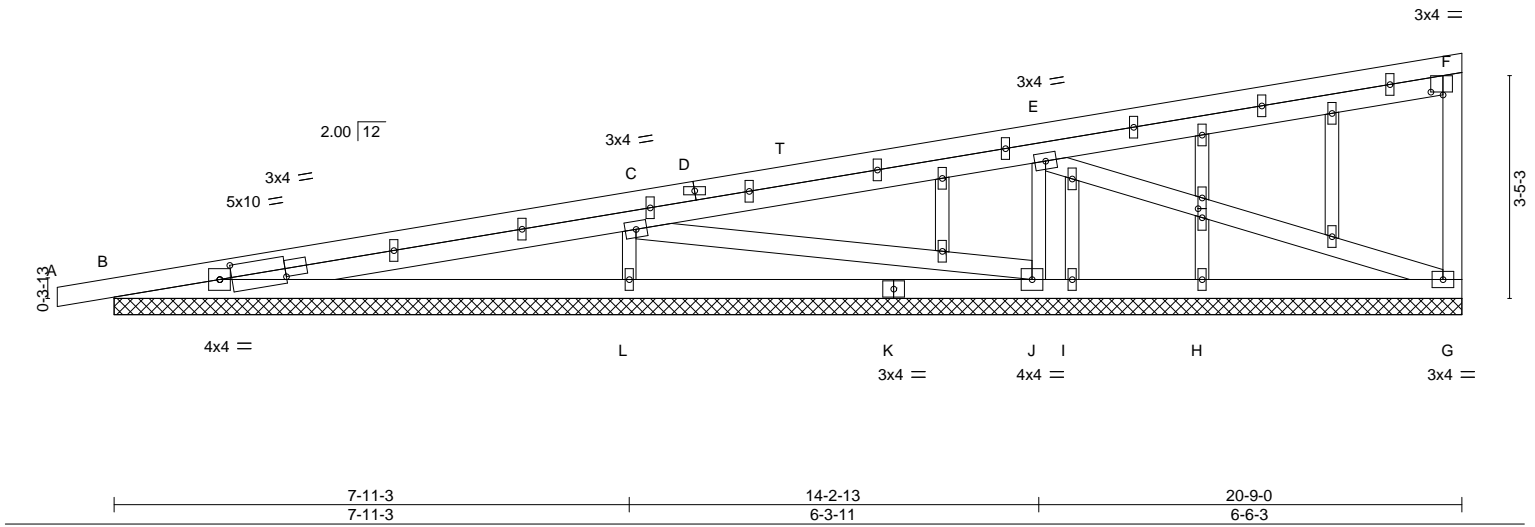


Plate Offsets (X,Y)-- [B:0-0-1,0-0-0], [B:1-0-4,0-1-8], [B:0-2-4,0-2-5], [F:0-2-4,0-0-8], [P:0-1-11,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.86	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.45	Vert(LL) 0.07 A n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Vert(CT) 0.13 A n/r 90		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Horz(CT) -0.00 G n/a n/a	Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: B-L.
WEBS 2x4 SPF No.2 *Except* C-L,E-J: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 20-9-0.
 (lb) - Max Horz B=99(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) G, B, L, J except I=-148(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) H except G=312(LC 17), B=374(LC 1), L=810(LC 17), J=698(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD F-G=-264/59
 WEBS C-L=-626/172, E-J=-602/129

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 20.0 psf or 2.00 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 20.0psf 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) G, B, L, J except (jt=lb) I=148.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 13) No notches allowed in overhang and 1008 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.



May 26, 2023

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MiTek
 240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job N0652	Truss H2	Truss Type Monopitch	Qty 8	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489131
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:01 2023 Page 1

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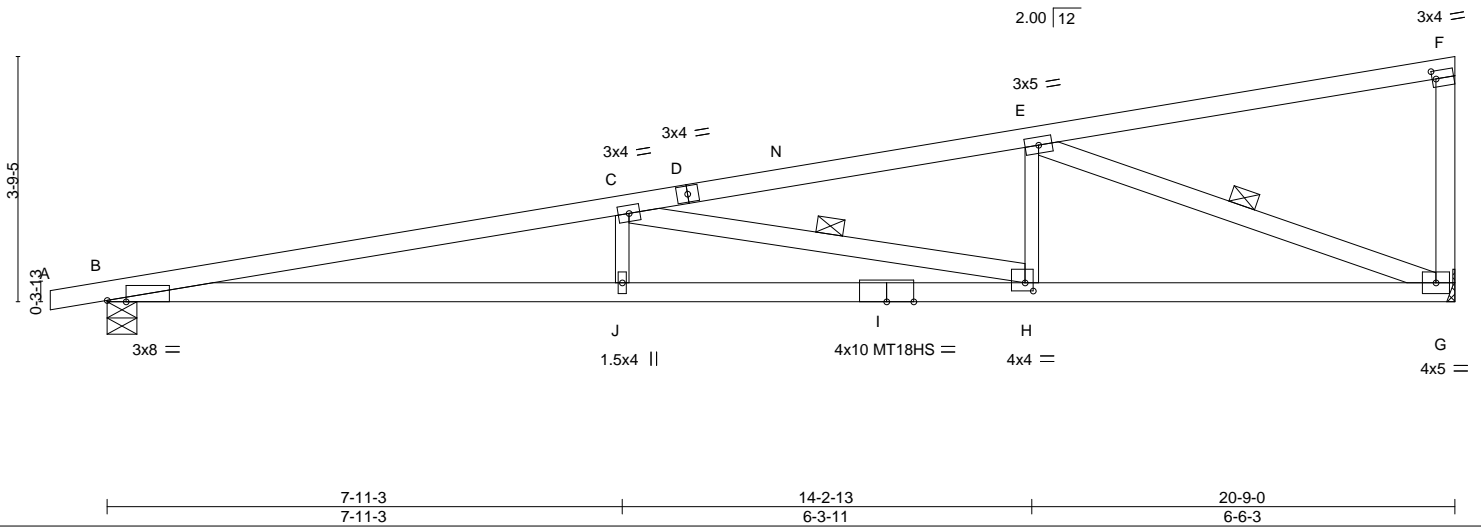


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [F:0-0-11,0-1-8], [H:0-1-8,0-1-8]

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.31	J-M	>806	L/d	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.56	J-M	>439		240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.09	G	n/a		n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.17	J-M	>999		240		
BCDL	10.0											Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
A-D: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
B-I: 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
C-J,E-H: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt C-H, E-G

REACTIONS.

(size) B=0-5-8, G=Mechanical
Max Horz B=108(LC 9)
Max Uplift B=-146(LC 6), G=-126(LC 10)
Max Grav B=1092(LC 17), G=1143(LC 17)

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

TOP CHORD B-C=-4152/460, C-E=-2286/244, F-G=-265/58
BOT CHORD B-J=-479/4074, H-J=-479/4074, G-H=-232/2216
WEBS C-J=0/287, C-H=-1900/253, E-H=0/533, E-G=-2313/269

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) B=146, G=126.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	JM1	Jack-Open	1	1	U1489132

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:02 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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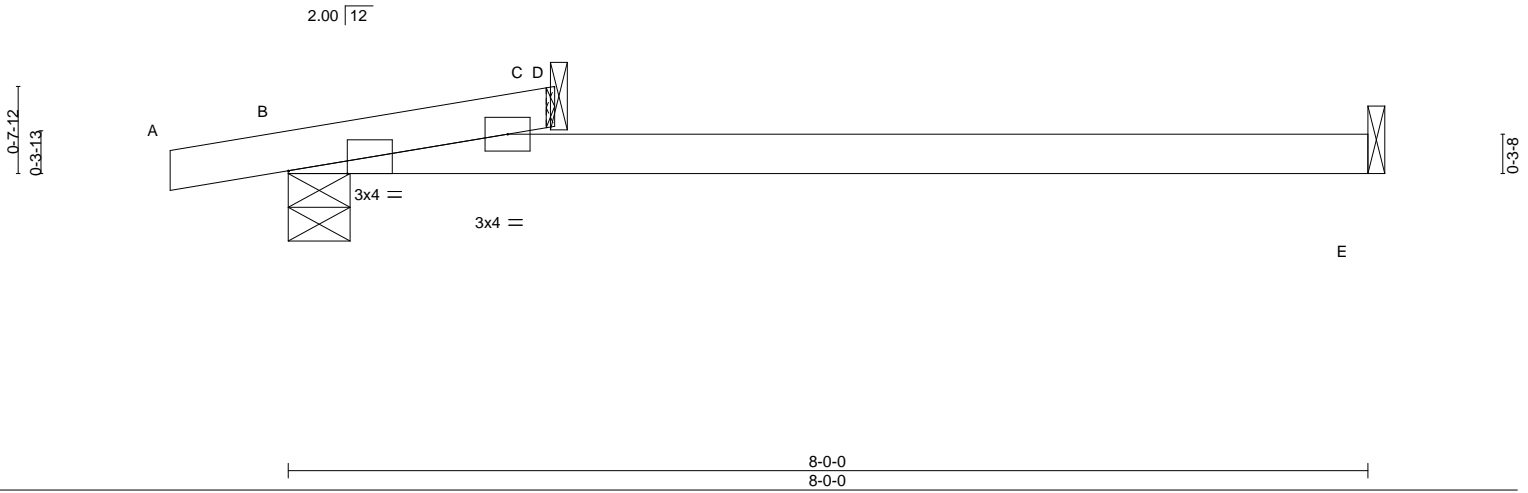


Plate Offsets (X,Y)-- [B:0-5-4,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.12	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.32	Vert(LL) -0.04 E-H >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.08 E-H >999 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP	Horz(CT) 0.00 C n/a n/a		
			Wind(LL) 0.00 H >999 240	Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, E=Mechanical, C=Mechanical
Max Horz B=16(LC 6)
Max Uplift B=65(LC 6)
Max Grav B=162(LC 17), E=96(LC 5), C=284(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) B.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	JM2	Jack-Open	1	1	U1489133

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:03 2023 Page 1

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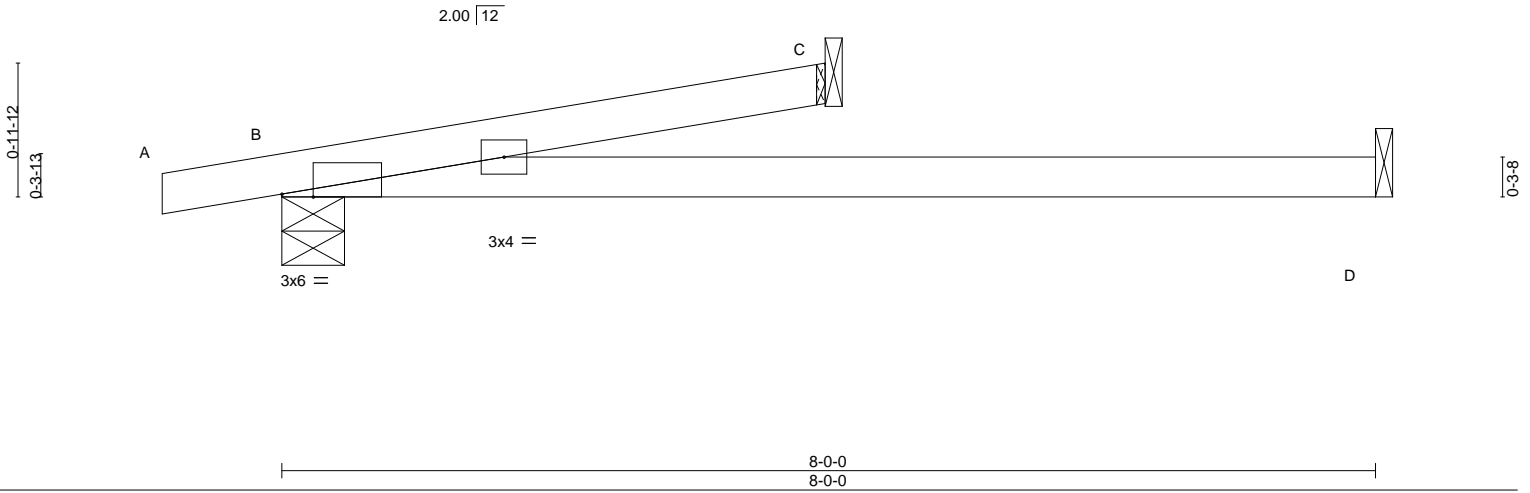


Plate Offsets (X,Y)-- [B:0-2-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.48	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.32	Vert(LL) -0.07 D-G >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.16 D-G >614 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP	Horz(CT) 0.00 B n/a n/a		
			Wind(LL) 0.02 D-G >999 240	Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=26(LC 6)
Max Uplift C=-12(LC 10), B=-48(LC 6)
Max Grav C=214(LC 17), B=341(LC 17), D=109(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) C, B.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	JM3	Jack-Open	1	1	U1489134

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:03 2023 Page 1

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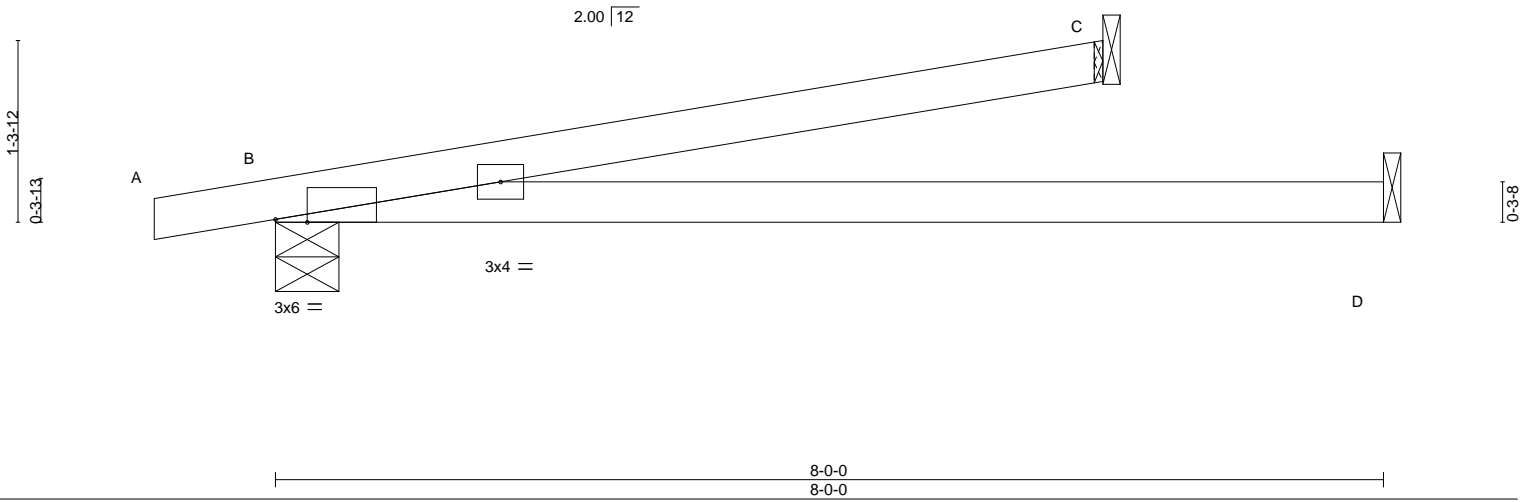


Plate Offsets (X,Y)-- [B:0-2-12,Edge]

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 YES Code IBC2018/TPI2014	TC 0.75 BC 0.51 WB 0.00 Matrix-MP	in (loc) l/defl L/d Vert(LL) -0.16 D-G >602 360 Vert(CT) -0.31 D-G >304 240 Horz(CT) 0.00 B n/a Wind(LL) 0.07 D-G >999 240	MT20	197/144
TCDL 12.0				Weight: 17 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

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

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

REACTIONS. (size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=36(LC 6)
Max Uplift C=42(LC 10), B=58(LC 6)
Max Grav C=260(LC 17), B=458(LC 17), D=127(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) C, B.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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PRCNC20240278

Job N0652	Truss JM4	Truss Type Jack-Partial	Qty 2	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489135
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:04 2023 Page 1

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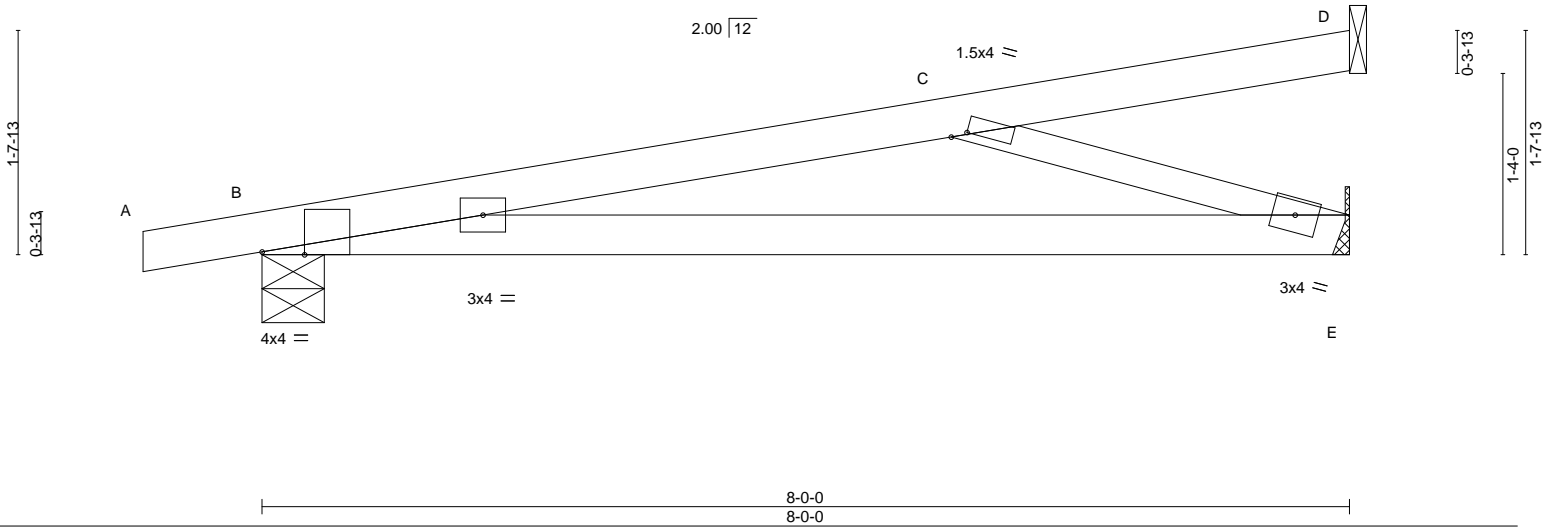


Plate Offsets (X,Y)-- [B:0-3-12,Edge], [C:0-1-4,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.49	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.54	Vert(LL) -0.09 E-H >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Vert(CT) -0.20 E-H >481 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MP	Horz(CT) 0.01 E n/a n/a		
			Wind(LL) 0.04 E-H >999 240	Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) D=Mechanical, B=0-5-8, E=Mechanical
 Max Horz B=46(LC 6)
 Max Uplift D=-30(LC 6), B=-73(LC 6), E=-20(LC 10)
 Max Grav D=79(LC 17), B=552(LC 17), E=375(LC 17)

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

TOP CHORD B-C=-1052/131
 BOT CHORD B-E=-149/1034
 WEBS C-E=-1078/155

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, B, E.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

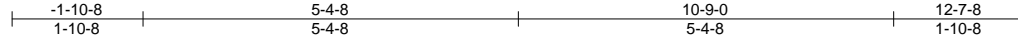
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	K1	GABLE	1	1	U1489136

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:05 2023 Page 1

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4x4 =

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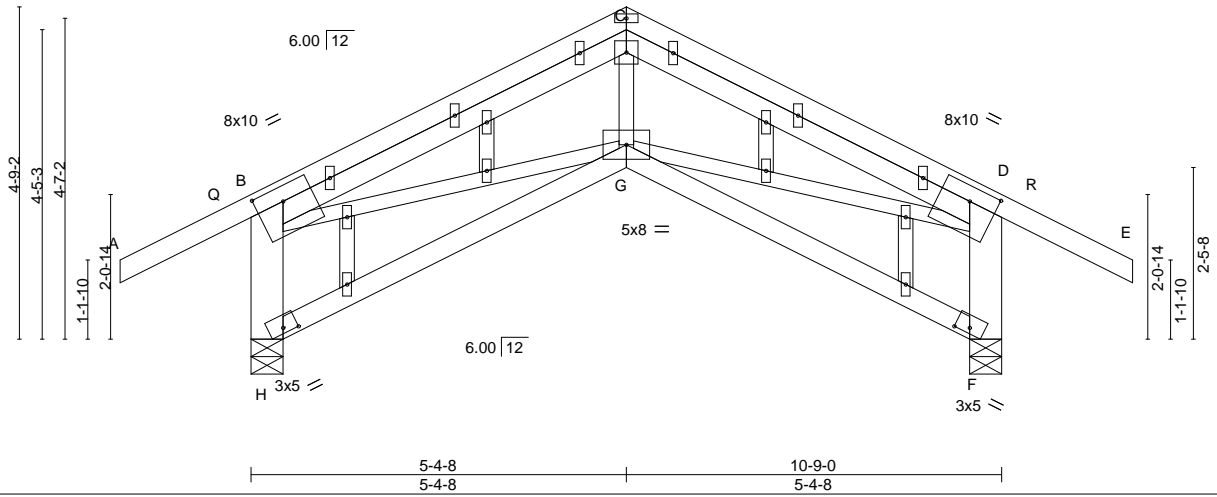


Plate Offsets (X,Y)-- [B:0-4-12,0-2-8], [D:0-4-12,0-2-8], [F:0-2-8,0-0-15], [H:0-2-8,0-0-15]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.57	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.18	Vert(LL) -0.03 G-H >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Vert(CT) -0.07 G-H >999 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.06 F n/a n/a		
			Wind(LL) 0.01 G >999 240	Weight: 64 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 B-H,D-F: 2x6 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) H=0-5-8, F=0-5-8
 Max Horz H=-82(LC 8)
 Max Uplift H=-77(LC 10), F=-77(LC 11)
 Max Grav H=766(LC 17), F=766(LC 18)

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

TOP CHORD B-H=-759/110, B-C=-962/24, C-D=-962/21, D-F=-759/111
 WEBS C-G=0/387, D-G=0/724, B-G=0/724

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCELL: 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 18.0 psf or 2.00 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 20.0psf 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) Bearing at joint(s) H, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, F.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) No notches allowed in overhang and 11008 from left end and 11008 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.



May 26, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

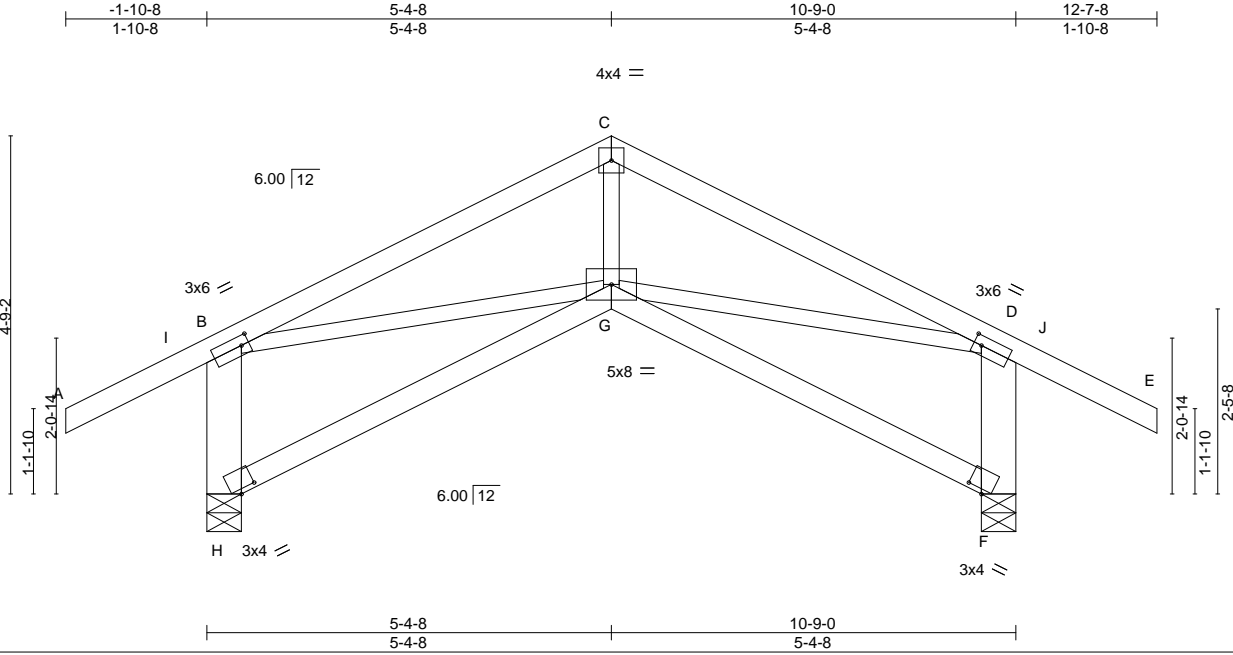
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	K2	Roof Special	5	1	U1489137

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:06 2023 Page 1

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Scale = 1:30.6

Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [D:0-1-4,0-1-8], [F:0-2-10,0-0-12], [H:0-2-10,0-0-12]

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	TC 0.56	Vert(LL) -0.03	G-H	>999	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.06	G-H	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.04	F	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.01	G	>999	240	Weight: 48 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 B-H,D-F: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) H=0-5-8, F=0-5-8
 Max Horz H=-90(LC 8)
 Max Uplift H=-76(LC 10), F=-76(LC 11)
 Max Grav H=766(LC 17), F=766(LC 18)

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

TOP CHORD B-H=-758/108, B-C=-847/26, C-D=-847/22, D-F=-758/109
 WEBS C-G=0/335, D-G=0/605, B-G=0/605

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 18.0 psf or 2.00 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 20.0psf 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) Bearing at joint(s) H, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, F.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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PRCNC20240278

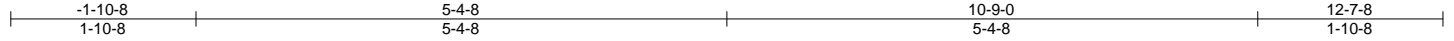
Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489138
N0652	K3	Common	6	1		

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

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ID:JK8PGhl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:23.3

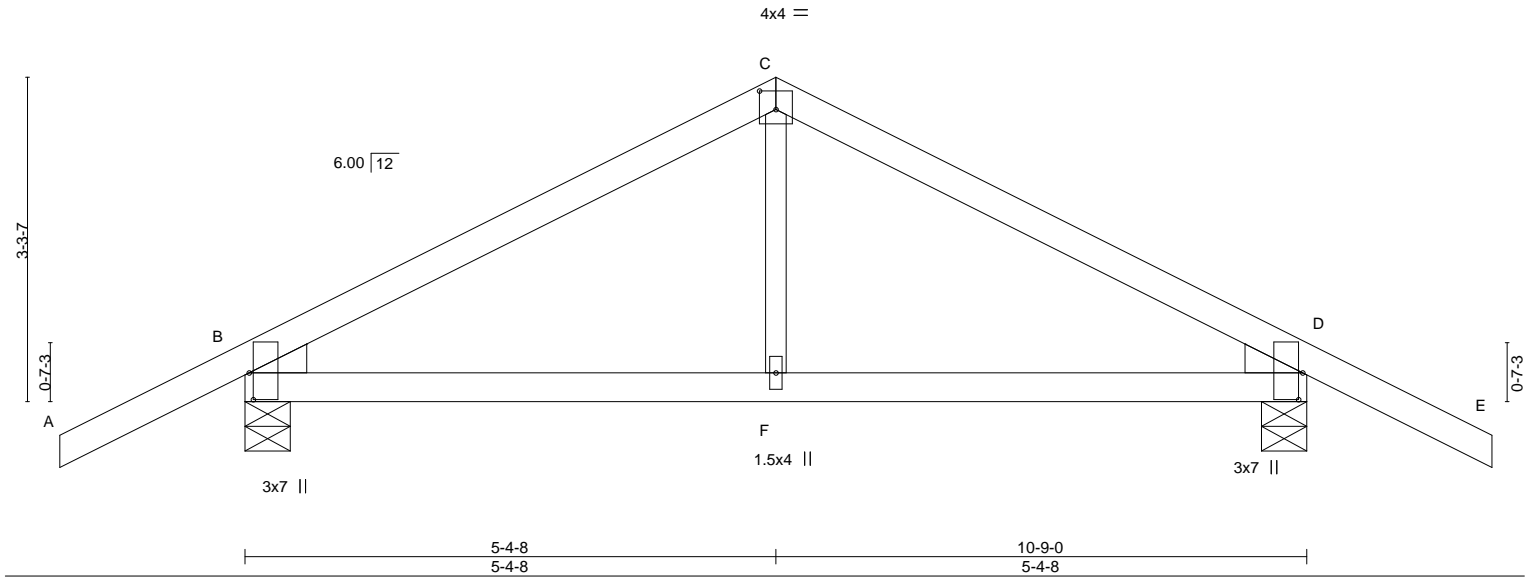


Plate Offsets (X,Y)-- [B:0-3-4,0-0-8], [C:0-2-0,0-2-4], [D:0-3-4,0-0-8]

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	TC 0.45	Vert(LL)	-0.04	F-L	>999	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.33	Vert(CT)	-0.06	F-L	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.01	B	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL)	0.01	F-I	>999	Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, D=0-5-8
Max Horz B=47(LC 14)
Max Uplift B=-76(LC 10), D=-76(LC 11)
Max Grav B=756(LC 17), D=756(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-667/51, C-D=-667/51
BOT CHORD B-F=0/485, D-F=0/485

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 18.0 psf or 2.00 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 20.0psf 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) B, D.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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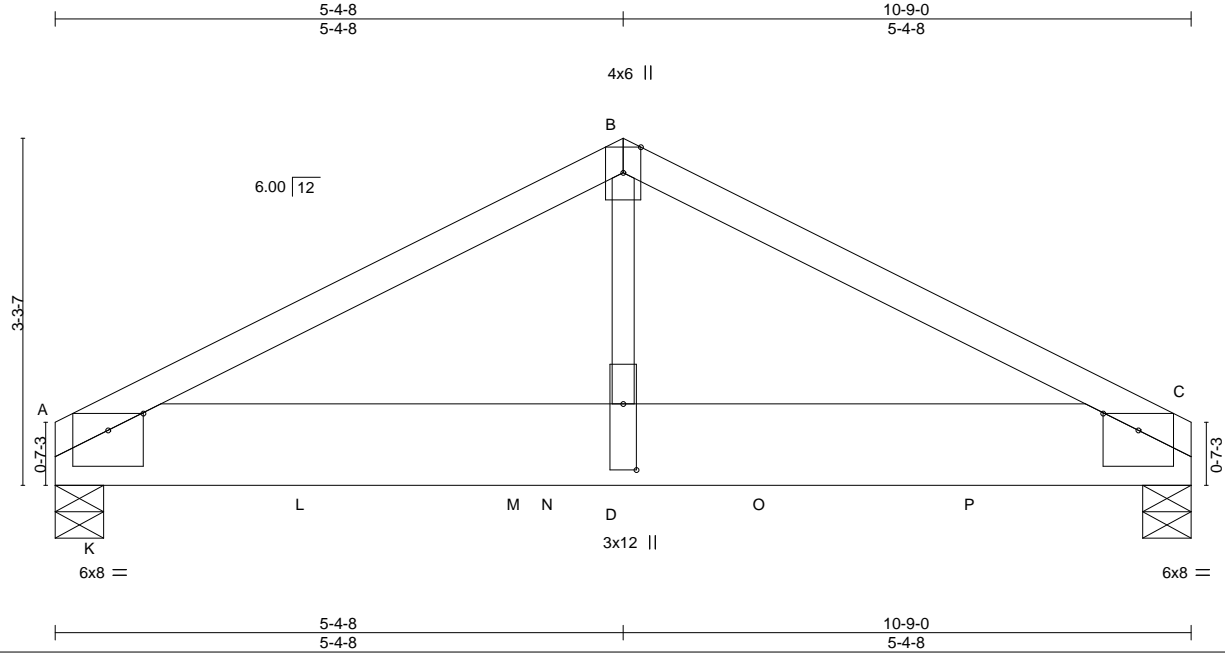
PRCNC20240278

Job N0652	Truss K4	Truss Type Common Girder	Qty 1	Ply 2	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489139
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:08 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:21.8

Plate Offsets (X,Y)-- [A:0-4-0,0-1-15], [C:0-4-0,0-1-15], [D:0-7-8,0-1-8]

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	TC 0.45 BC 0.44 WB 0.77 Matrix-MS	Vert(LL) -0.04 Vert(CT) -0.08 Horz(CT) 0.01 Wind(LL) 0.02	D-G D-G C D	>999 >999 n/a >999	360 240 n/a 240	MT20	197/144
TCDL 12.0	Rep Stress Incr NO Code IBC2018/TPI2014						Weight: 109 lb	FT = 20%
BCLL 0.0 *								
BCDL 10.0								

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x10 DF SS
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-5-8, C=0-5-8
 Max Horz A=-35(LC 34)
 Max Uplift A=-304(LC 10), C=-240(LC 11)
 Max Grav A=4775(LC 16), C=3728(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-5523/369, B-C=-5526/369
 BOT CHORD A-D=-296/4840, C-D=-296/4840
 WEBS B-D=-255/4492

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 0-7-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x3 - 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.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B;
 Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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=1.00; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=304, C=240.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1218 lb down and 82 lb up at 0-5-5, 1212 lb down and 87 lb up at 2-5-5, 1212 lb down and 87 lb up at 4-5-5, 1212 lb down and 87 lb up at 4-9-4, and 1212 lb down and 87 lb up at 6-9-4, and 1212 lb down and 87 lb up at 8-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489139
N0652	K4	Common Girder	1	2	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:08 2023 Page 2
 ID:JK8PGhl_IzFBZzFFoAOpRzZDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-B=-74, B-C=-74, E-H=-20

Concentrated Loads (lb)

Vert: K=-1218(F) L=-1212(F) M=-1212(F) N=-1212(F) O=-1212(F) P=-1212(F)

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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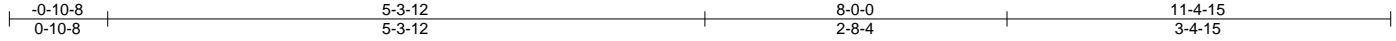
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489140
N0652	M1	Half Hip Girder	1	1		

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:09 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOPRzZDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f



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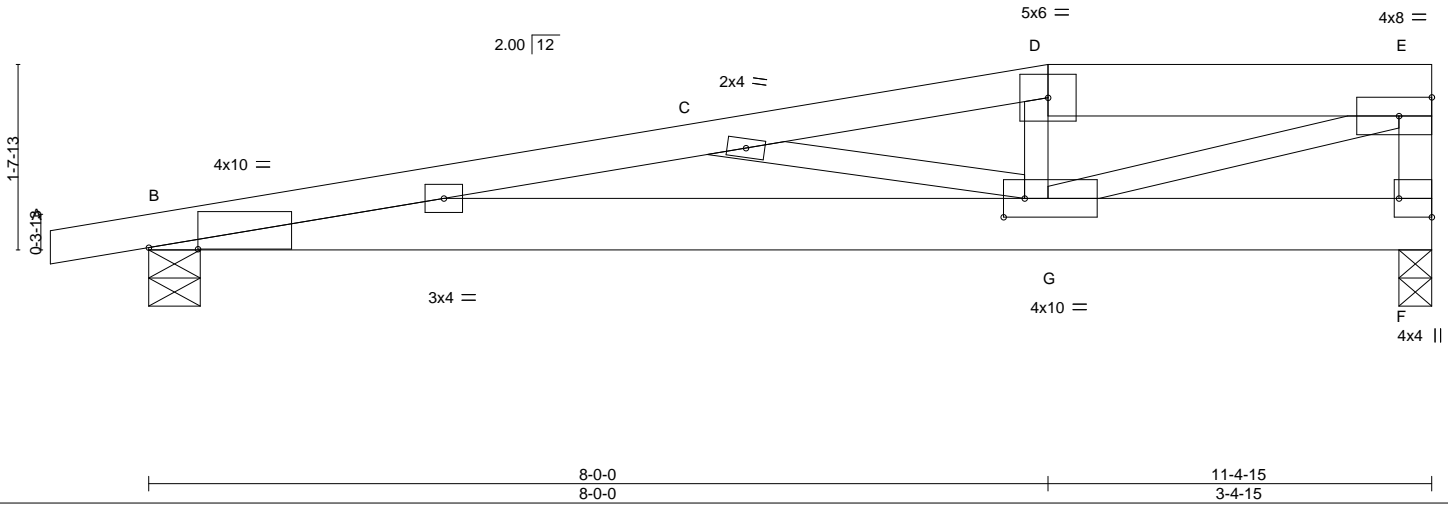


Plate Offsets (X,Y)-- [B:0-5-4,0-0-3], [F:Edge,0-3-8], [G:0-2-4,0-2-0]

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.13	G-I	>999	L/d	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	G-I	>505		240		
TCDL	12.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.02	F	n/a		n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.07	G-I	>999		240	Weight: 43 lb	FT = 20%
BCDL	10.0												

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
D-E: 2x6 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
E-F: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) F=0-3-8, B=0-5-8
Max Horz B=39(LC 9)
Max Uplift F=203(LC 6), B=91(LC 6)
Max Grav F=1434(LC 1), B=1160(LC 28)

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

TOP CHORD B-C=-3675/405, C-D=-2784/344, D-E=-2689/323, E-F=-1191/170
BOT CHORD B-G=-392/3622
WEBS C-G=-930/76, D-G=-432/225, E-G=-295/2658

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) F=203.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Girder carries hip end with 0-0-0 right side setback, 8-0-0 left side setback, and 8-0-0 end setback.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 735 lb down and 196 lb up at 8-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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Continued on page 2

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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489140
N0652	M1	Half Hip Girder	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:09 2023 Page 2
 ID:JK8PGhl_IzFBzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-D=-74, D-E=-111(F=-37), B-G=-50(F=-30), F-G=-124(F=-104)

Concentrated Loads (lb)

Vert: D=-641(F)

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Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489141
N0652	M2	Half Hip	1	1		

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:10 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



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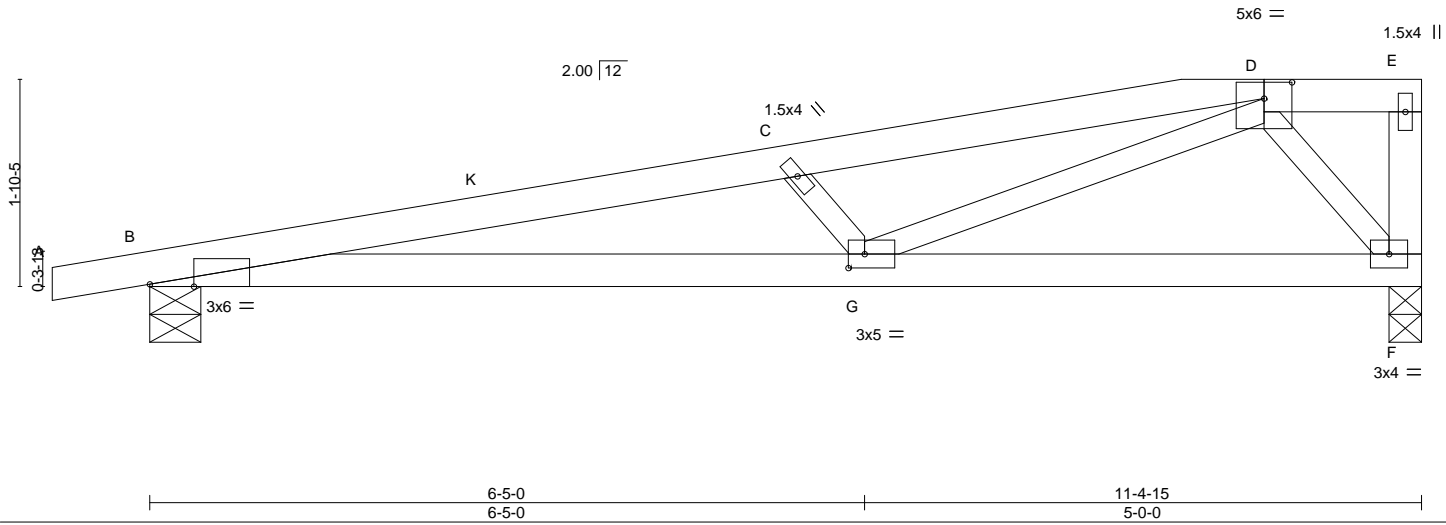


Plate Offsets (X,Y)-- [B:0-4-12,Edge], [D:0-3-0,0-1-12], [G:0-1-12,0-1-8]

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.13	G-J	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.22	G-J	>607	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	F	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.05	G-J	>999	240	Weight: 34 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 E-F: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) B=0-5-8, F=0-3-8
 Max Horz B=49(LC 9)
 Max Uplift B=94(LC 6), F=67(LC 6)
 Max Grav B=768(LC 28), F=603(LC 28)

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

TOP CHORD B-C=-2147/215, C-D=-1834/167
 BOT CHORD B-G=-213/2103, F-G=-49/469
 WEBS C-G=-552/117, D-G=-109/1437, D-F=-733/107

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	M3	Monopitch	3	1	U1489142

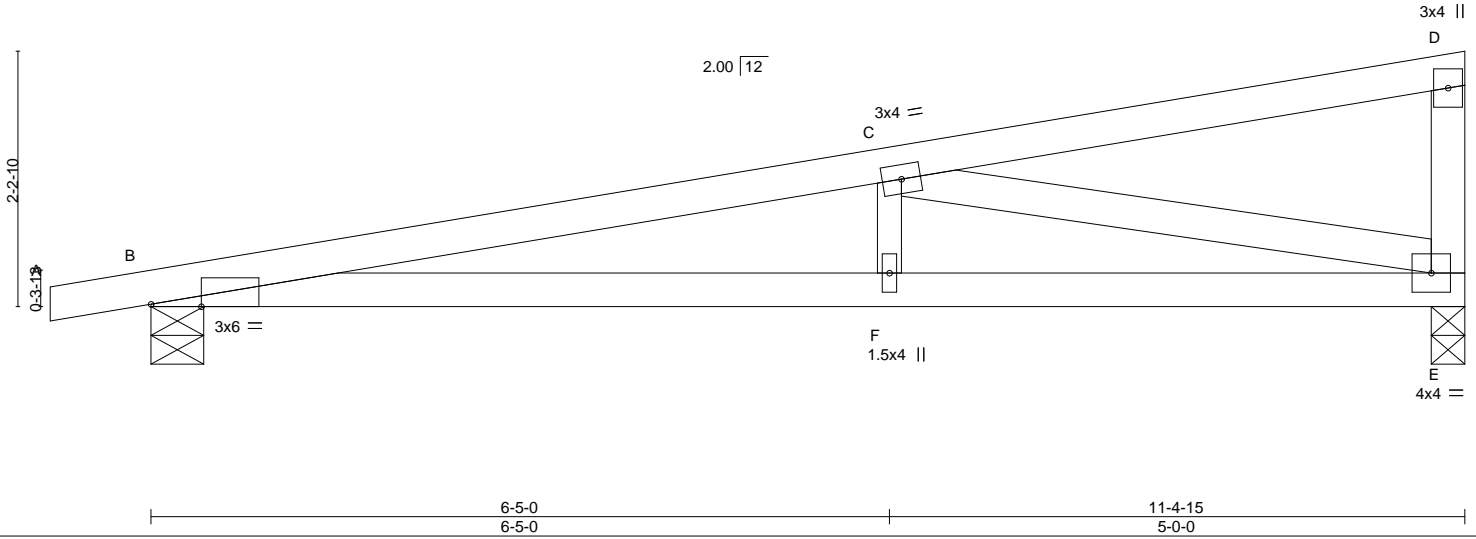
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:10 2023 Page 1

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Scale = 1:20.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.15 F-I >914	360	MT20	197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.25 F-I >545	240			
TCDL	12.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.03 E n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.07 F-I >999	240	Weight: 35 lb	FT = 20%	
BCDL	10.0										

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 C-F: 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) E=0-3-8, B=0-5-8
 Max Horz B=60(LC 9)
 Max Uplift E=-68(LC 10), B=-93(LC 6)
 Max Grav E=648(LC 17), B=688(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1950/191
 BOT CHORD B-F=-195/1905, E-F=-195/1905
 WEBS C-E=-1896/208

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 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 20.0psf 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) E, B.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489143
N0652	P1	Monopitch Structural Gable	1	1	Job Reference (optional)	

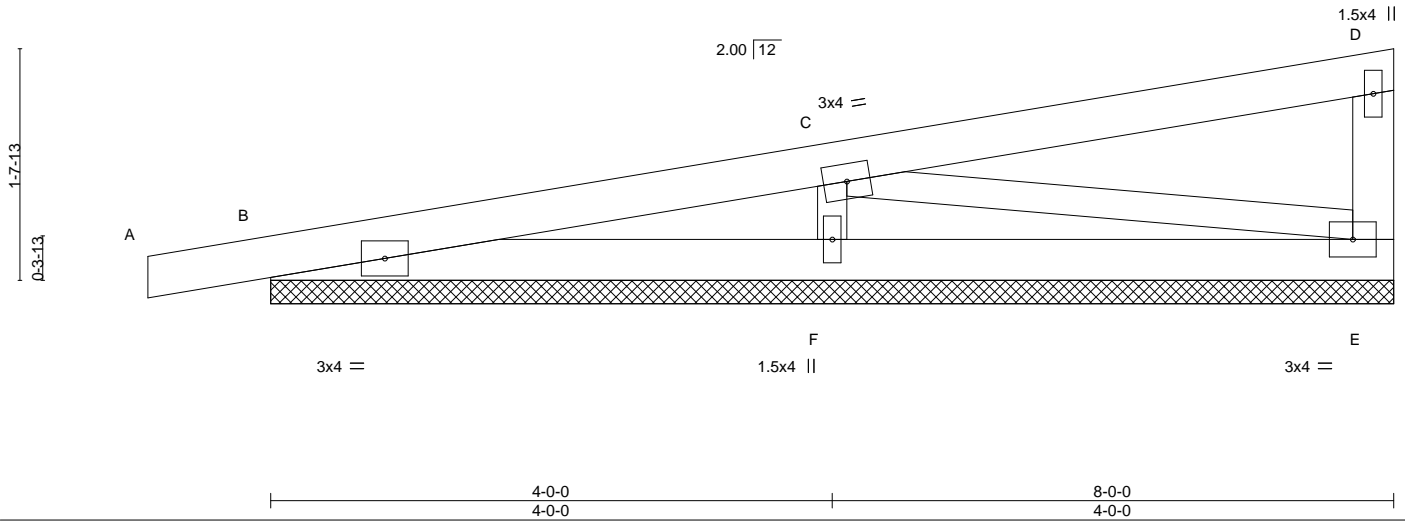
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:11 2023 Page 1

ID:JK8PGHl_IzFBZzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale = 1:16.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.22	Vert(LL) -0.00 A n/r 120		
TCDL 12.0	Lumber DOL 1.15	WB 0.29	Vert(CT) 0.00 A n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 F n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 D-E: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-8-15 oc bracing.

REACTIONS.

(size) E=8-0-0, B=8-0-0, F=8-0-0
 Max Horz B=43(LC 35)
 Max Uplift E=-152(LC 34), B=-244(LC 33), F=-312(LC 41)
 Max Grav E=243(LC 29), B=375(LC 30), F=659(LC 30)

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

TOP CHORD B-C=-1169/1151, C-D=-964/938
 BOT CHORD B-F=-1055/1046, E-F=-665/655
 WEBS C-F=-561/361, C-E=-760/769

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=152, B=244, F=312.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 8-0-0 for 240.0 plf.



May 26, 2023

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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489144
N0652	P2	Half Hip	1	1		

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:12 2023 Page 1

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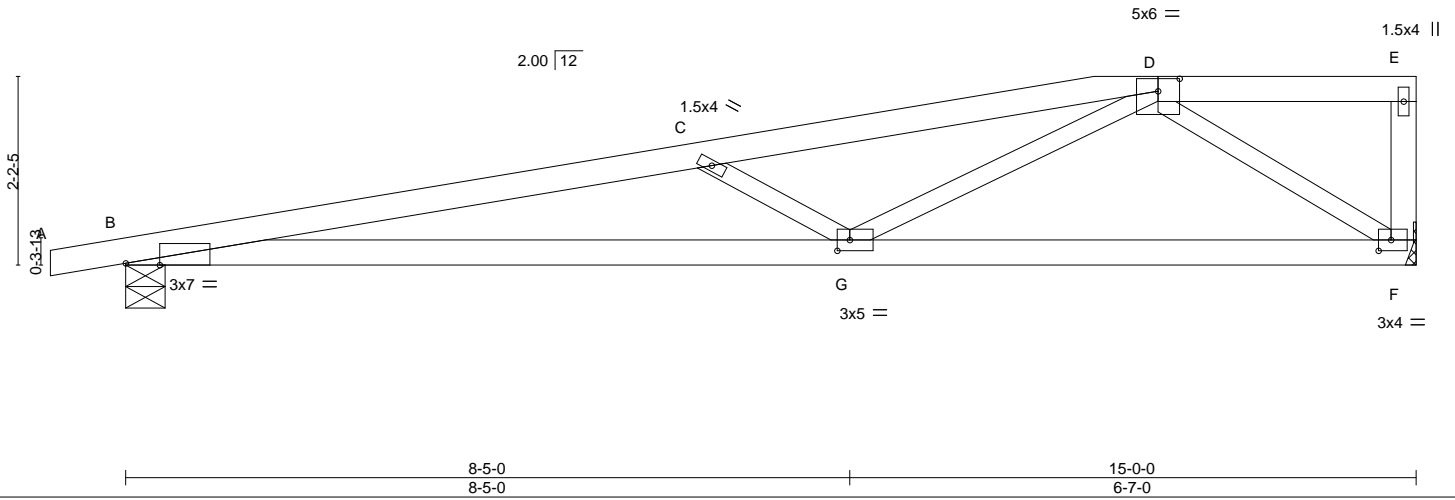


Plate Offsets (X,Y)-- [B:0-4-12,Edge], [D:0-3-0,0-1-12], [F:0-1-12,0-1-8], [G:0-1-12,0-1-8]

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	TC 0.73	Vert(LL) -0.22	G-J	>802	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.39	G-J	>457	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.04	F	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.09	G-J	>999	240	Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x3 SPF No.2 *Except*
 E-F: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) B=0-5-8, F=Mechanical
 Max Horz B=59(LC 9)
 Max Uplift B=-115(LC 6), F=-89(LC 6)
 Max Grav B=971(LC 28), F=735(LC 28)

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

TOP CHORD B-C=-3076/331, C-D=-2303/195
 BOT CHORD B-G=-330/3015, F-G=-113/968
 WEBS C-G=-930/193, D-G=-68/1436, D-F=-1150/160

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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=1.0; 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 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F except (jt=lb) B=115.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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PRCNC20240278

Job N0652	Truss P3	Truss Type Half Hip	Qty 1	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489145
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:13 2023 Page 1

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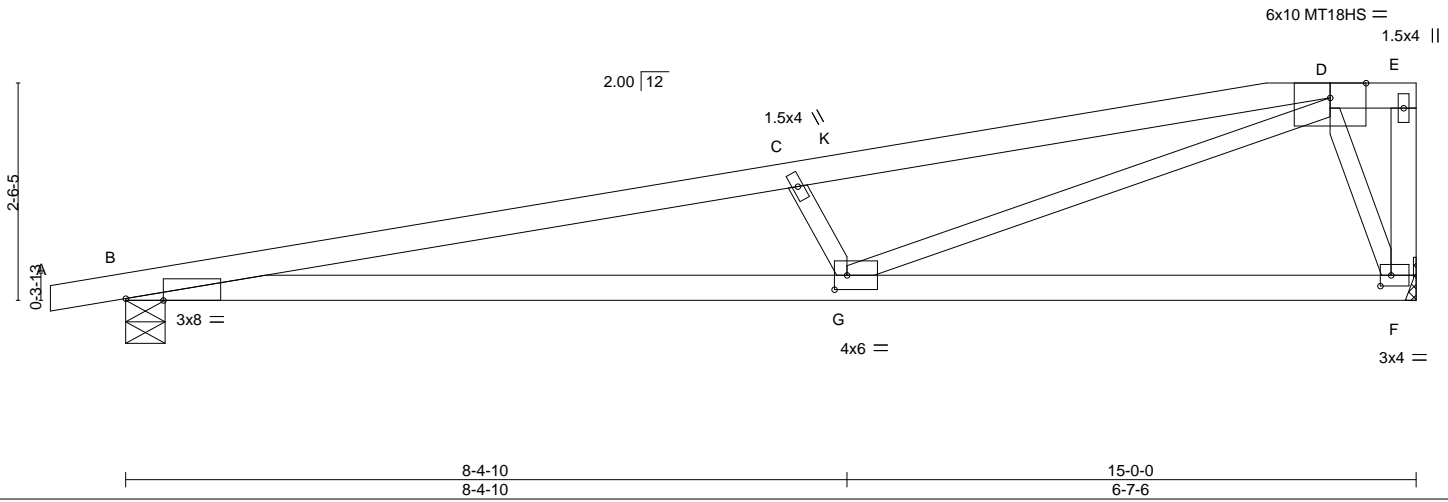


Plate Offsets (X,Y)-- [B:0-5-4,Edge], [F:0-1-8,0-1-8], [G:0-1-12,0-2-0]

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	TC 0.94	Vert(LL) -0.31	G-J	>583	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.51	G-J	>349	240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.03	F	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.12	G-J	>999	240		
							Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x3 SPF No.2 *Except*
 E-F: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) B=0-5-8, F=Mechanical
 Max Horz B=70(LC 9)
 Max Uplift B=-114(LC 6), F=-89(LC 6)
 Max Grav B=986(LC 28), F=843(LC 28)

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

TOP CHORD B-C=-2928/288, C-D=-2619/250
 BOT CHORD B-G=-292/2862, F-G=-31/366
 WEBS C-G=-745/160, D-G=-206/2340, D-F=-993/154

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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 20.0psf 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) F except (jt=lb) B=114.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	P4	Monopitch	10	1	U1489146

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:13 2023 Page 1

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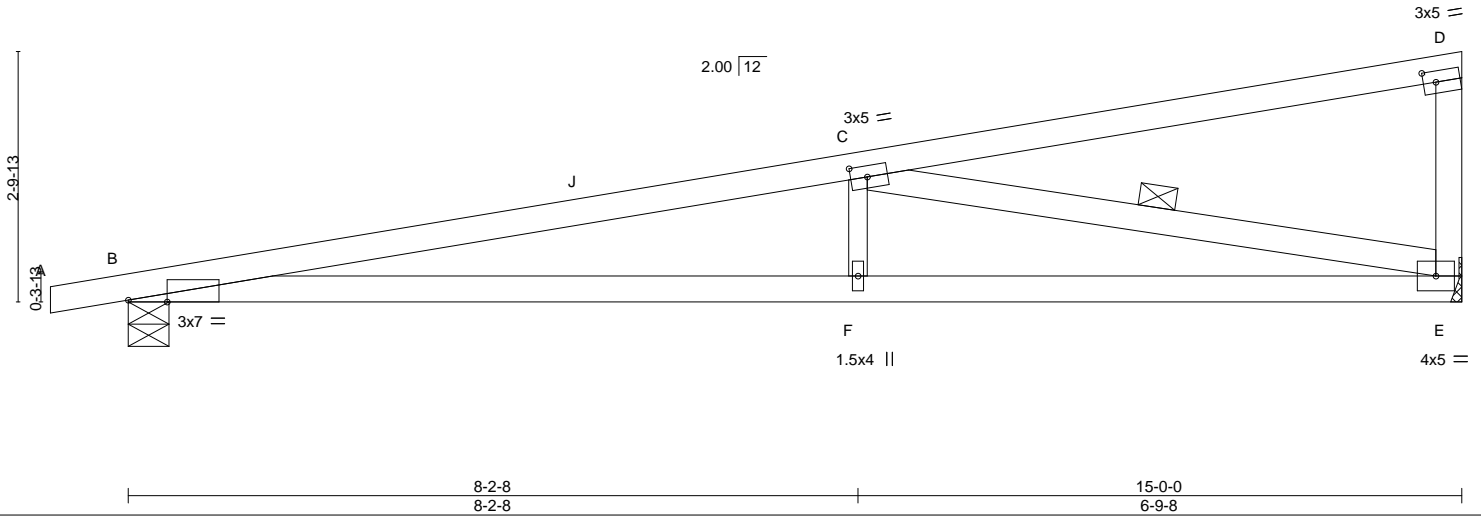


Plate Offsets (X,Y)-- [B:0-5-4,Edge], [C:0-2-4,0-1-8], [D:0-1-11,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.84	in (loc) l/defl L/d	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.69	Vert(LL) -0.24 F-I >736 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Vert(CT) -0.44 F-I >402 240		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.05 E n/a n/a		
			Wind(LL) 0.13 F-I >999 240	Weight: 46 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x4 SPF No.2 *Except*
 C-F: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt C-E

REACTIONS.

(size) E=Mechanical, B=0-5-8
 Max Horz B=78(LC 9)
 Max Uplift E=-91(LC 10), B=-114(LC 6)
 Max Grav E=840(LC 17), B=834(LC 17)

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

TOP CHORD B-C=-2622/269, D-E=-263/60
 BOT CHORD B-F=-276/2564, E-F=-276/2564
 WEBS C-F=0/338, C-E=-2543/292

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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=1.0; 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 20.0 psf or 2.00 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 20.0psf 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) E except (jt=lb) B=114.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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PRCNC20240278

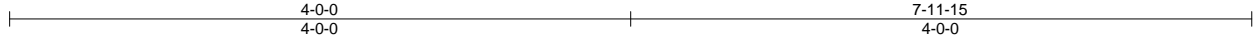
Job N0652	Truss VD1	Truss Type Valley	Qty 1	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489148
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

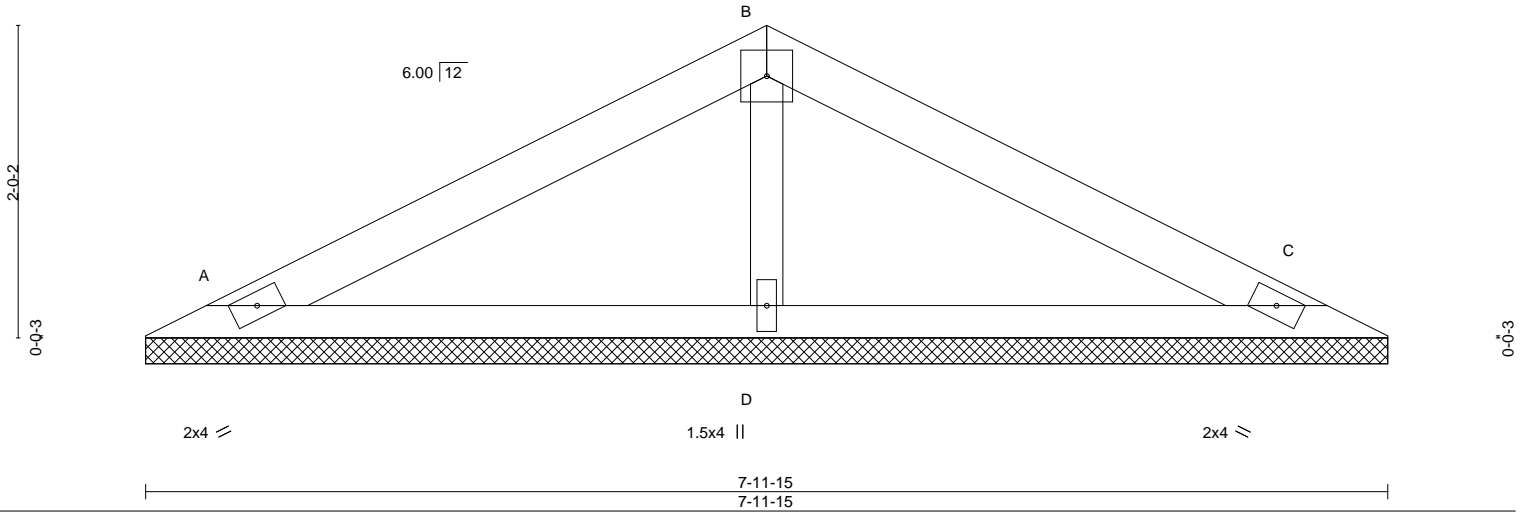
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:15 2023 Page 1

ID:JK8PGhl_IzFBZzFFoAOpRzZDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Job Reference (optional)



Scale = 1:14.8



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 0.34 BC 0.20 WB 0.04 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 C n/a n/a	MT20	197/144
TCDL 12.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IBC2018/TPI2014			Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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.

(size) A=7-11-15, C=7-11-15, D=7-11-15
Max Horz A=23(LC 10)
Max Uplift A=-27(LC 10), C=-32(LC 11)
Max Grav A=225(LC 16), C=225(LC 17), D=317(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable requires continuous bottom chord bearing.
- 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 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) A, C.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

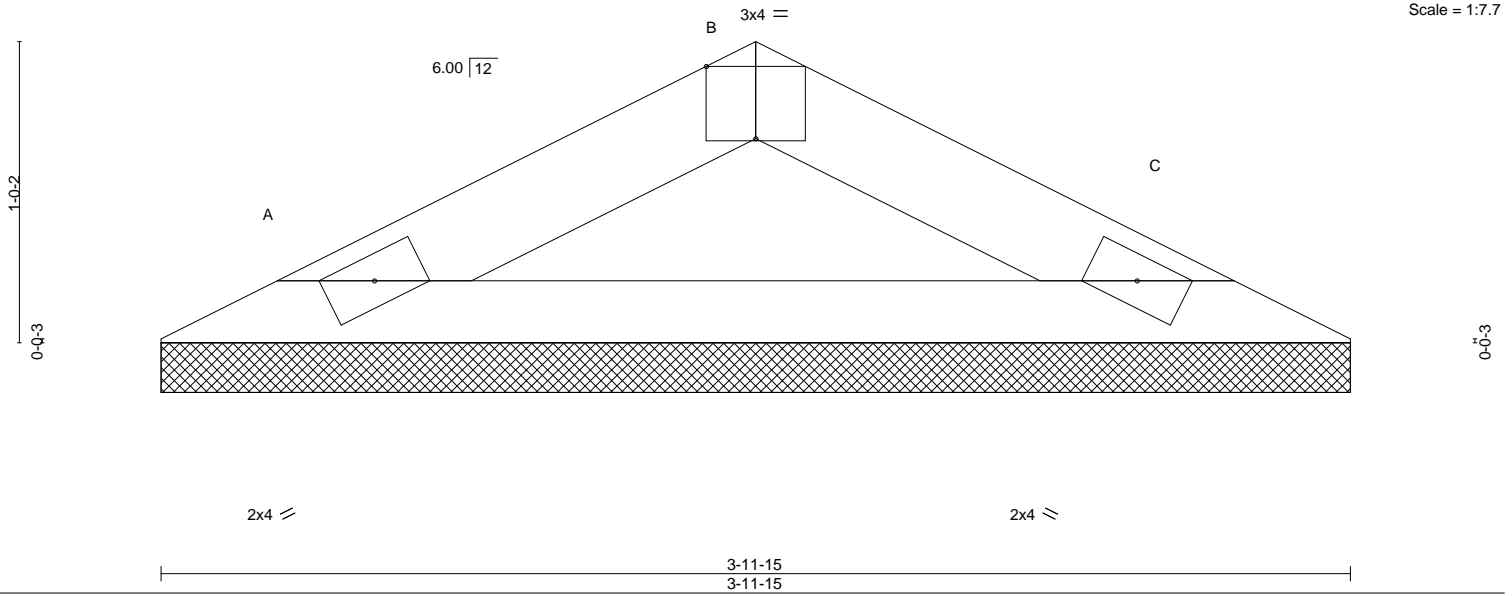
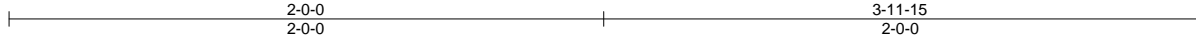
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489149
N0652	VD2	Valley	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:16 2023 Page 1

ID:JK8PGhl_IzFBzFFoAOpRZzDHFg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:7.7

Plate Offsets (X,Y)-- [B:0-2-0,Edge]

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	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P					Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) A=3-11-15, C=3-11-15
Max Horz A=-10(LC 11)
Max Uplift A=-12(LC 10), C=-12(LC 11)
Max Grav A=150(LC 16), C=150(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable requires continuous bottom chord bearing.
- 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 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) A, C.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
Bradford, ON. L3Z 4L5

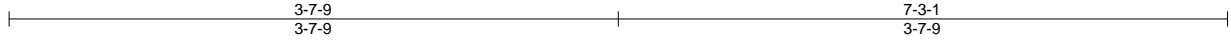
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA	U1489150
N0652	VG1	Valley	2	1	Job Reference (optional)	

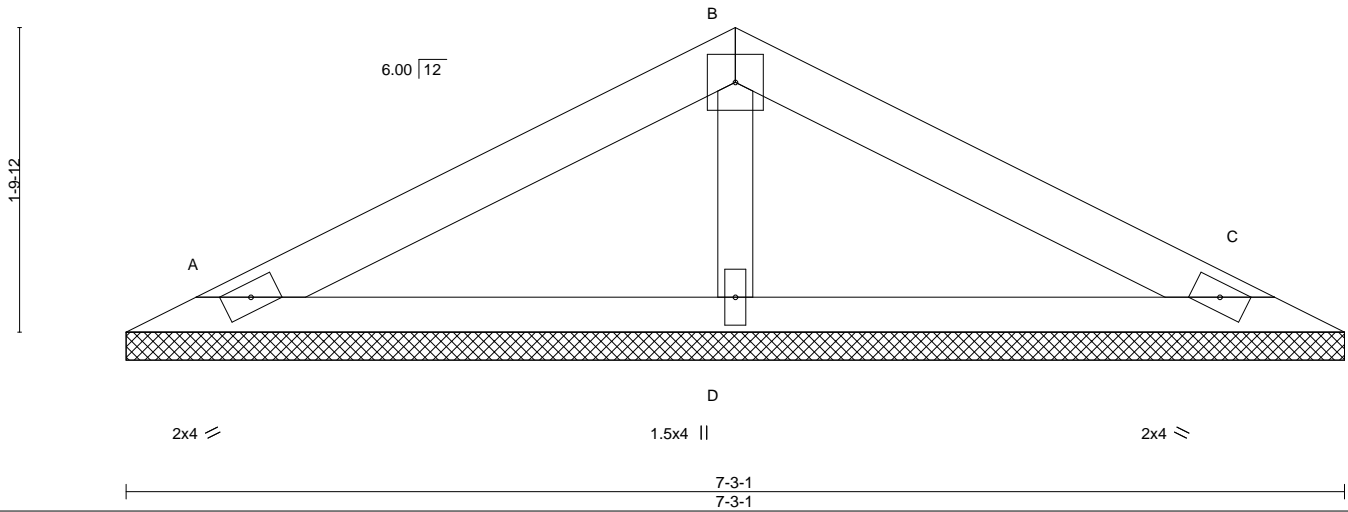
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:16 2023 Page 1

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Scale = 1:13.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999		
TCDL 12.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

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.

(size) A=7-3-1, C=7-3-1, D=7-3-1
 Max Horz A=-20(LC 11)
 Max Uplift A=-24(LC 10), C=-29(LC 11)
 Max Grav A=197(LC 16), C=197(LC 17), D=281(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable requires continuous bottom chord bearing.
- 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 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) A, C.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



240 Stirling Crescent
 Bradford, ON. L3Z 4L5

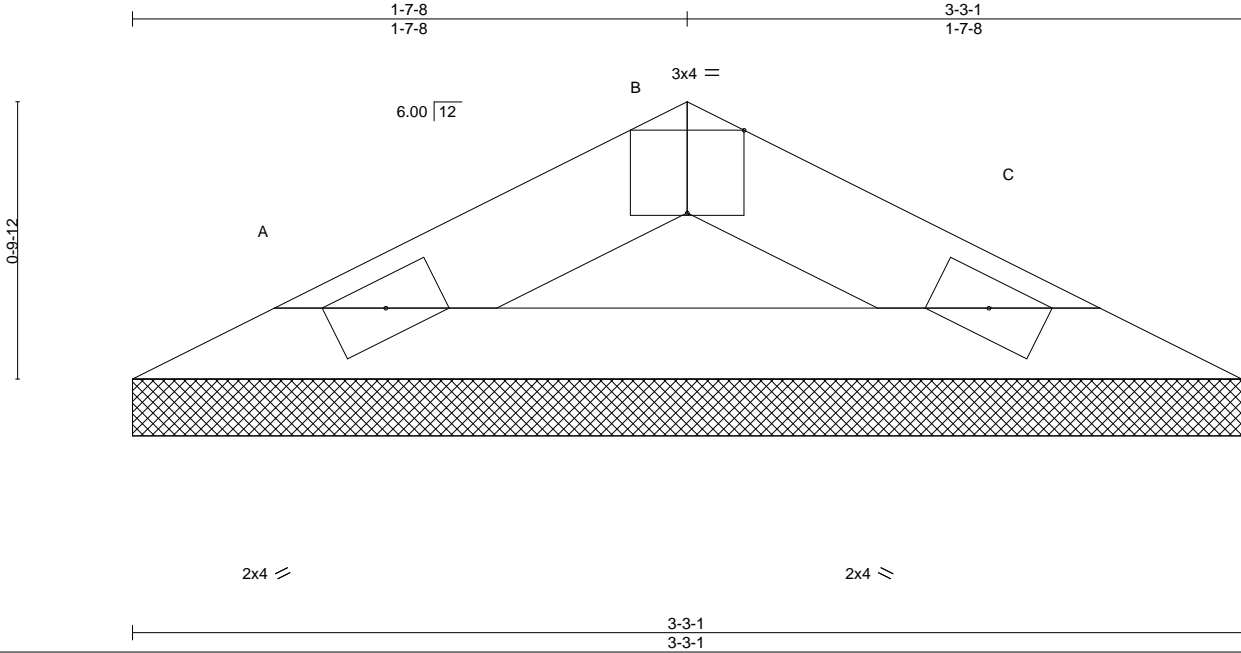
PRCNC20240278

Job N0652	Truss VG2	Truss Type Valley	Qty 2	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489151
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:17 2023 Page 1

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Scale = 1:6.8

Plate Offsets (X,Y)-- [B:0-2-0,Edge]

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	TC 0.02 BC 0.10 WB 0.00 Matrix-P	Vert(LL) Vert(CT) Horz(CT)	n/a n/a 0.00	- - C	n/a n/a n/a	MT20	197/144
TCDL 12.0	Rep Stress Incr YES Code IBC2018/TPI2014						Weight: 6 lb	FT = 20%
BCLL 0.0 *								
BCDL 10.0								

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF 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.

REACTIONS.

(size) A=3-3-1, C=3-3-1
Max Horz A=-7(LC 11)
Max Uplift A=-8(LC 10), C=-8(LC 11)
Max Grav A=108(LC 16), C=108(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable requires continuous bottom chord bearing.
- 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 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) A, C.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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240 Stirling Crescent
Bradford, ON. L3Z 4L5

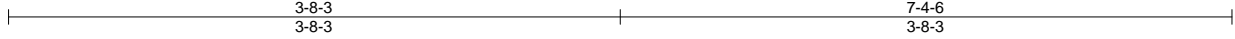
PRCNC20240278

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0652	VK1	Valley	1	1	U1489152

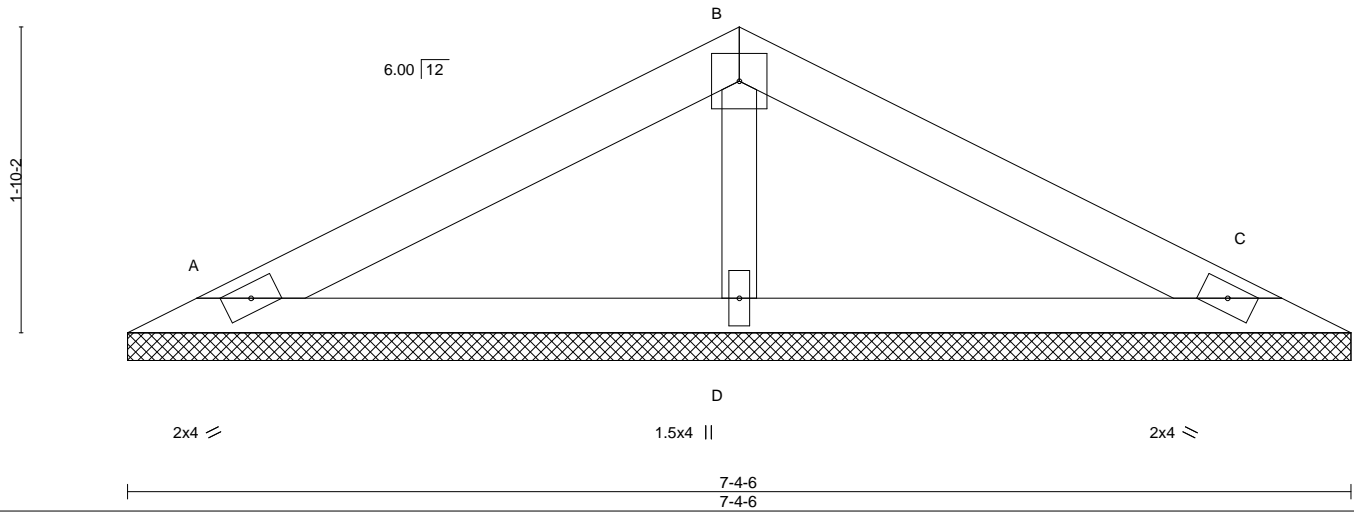
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:17 2023 Page 1

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Scale = 1:13.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
TCDL 12.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 15 lb	FT = 20%
BCDL 10.0									

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

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.

(size) A=7-4-6, C=7-4-6, D=7-4-6
 Max Horz A=21(LC 10)
 Max Uplift A=-25(LC 10), C=-29(LC 11)
 Max Grav A=201(LC 16), C=201(LC 17), D=286(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable requires continuous bottom chord bearing.
- 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 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) A, C.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



May 26, 2023

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240 Stirling Crescent
 Bradford, ON. L3Z 4L5

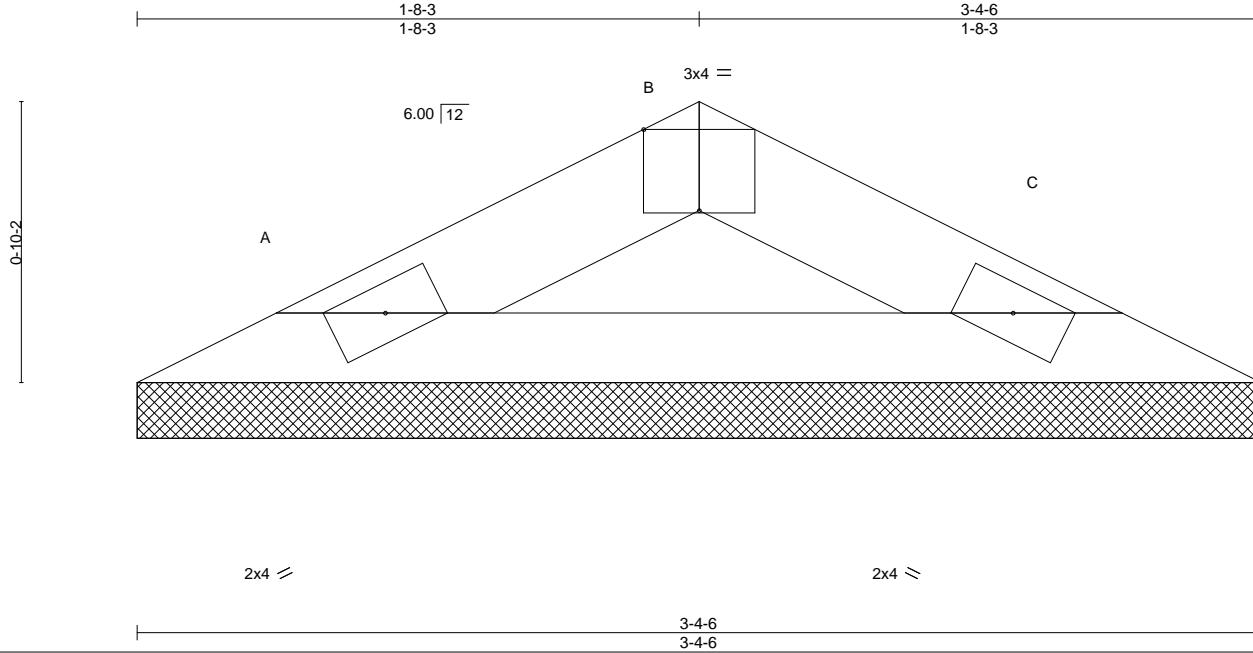
PRCNC20240278

Job N0652	Truss VK2	Truss Type Valley	Qty 1	Ply 1	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489153
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu May 25 15:00:18 2023 Page 1

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Scale = 1:6.9

Plate Offsets (X,Y)-- [B:0-2-0,Edge]

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	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P					Weight: 6 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) A=3-4-6, C=3-4-6
Max Horz A=-7(LC 11)
Max Uplift A=-9(LC 10), C=-9(LC 11)
Max Grav A=114(LC 16), C=114(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable requires continuous bottom chord bearing.
- 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 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) A, C.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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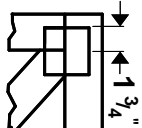


240 Stirling Crescent
Bradford, ON. L3Z 4L5

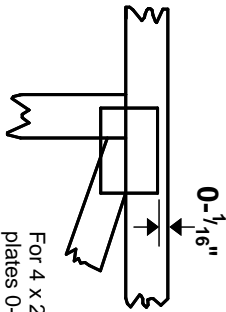
PRCNC20240278

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 **MITek 20/20 software or upon request.**

PLATE SIZE

4 X 4

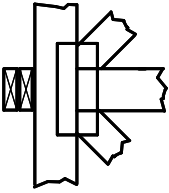
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



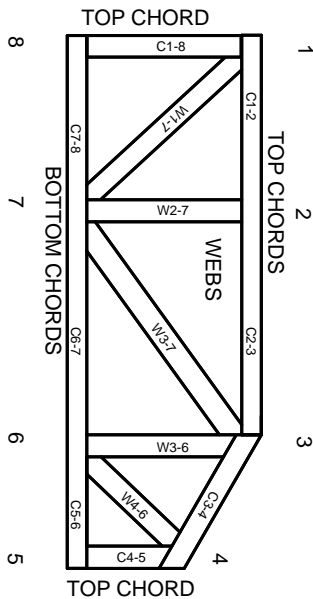
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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/LETTERED 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, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 6/30/2020



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 BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I 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/TP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP 1.
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/TP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.