



BRADLEY HEIGHTS SS LLC

BRADLEY HEIGHTS APARTMENTS BUILDINGS 'A' Through 'H' 202 27th Avenue SE Puyallup, WA

SUBMITTAL #2

Alliance Job # N0653

Date: Sept. 16, 2024

Representative: Craig Westerberg

MiTek Canada, Inc.

240 Stirling Crescent
Bradford, ON. Canada L3Z 4L5
Phone (905) 952-2900
Toll Free (800) 268-3434

Re: N0653A

Buildings A-H

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: U1530820 thru U1530901

My license renewal date for the state of Washington is February 17, 2026.



September 12, 2024

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.



PRMU20240283 BLDG D

MiTek Canada, Inc.

240 Stirling Crescent
Bradford, ON. Canada L3Z 4L5
Phone (905) 952-2900
Toll Free (800) 268-3434

Re: N0653A

Buildings A-H

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: U1530772 thru U1530819

My license renewal date for the state of Washington is February 17, 2026.

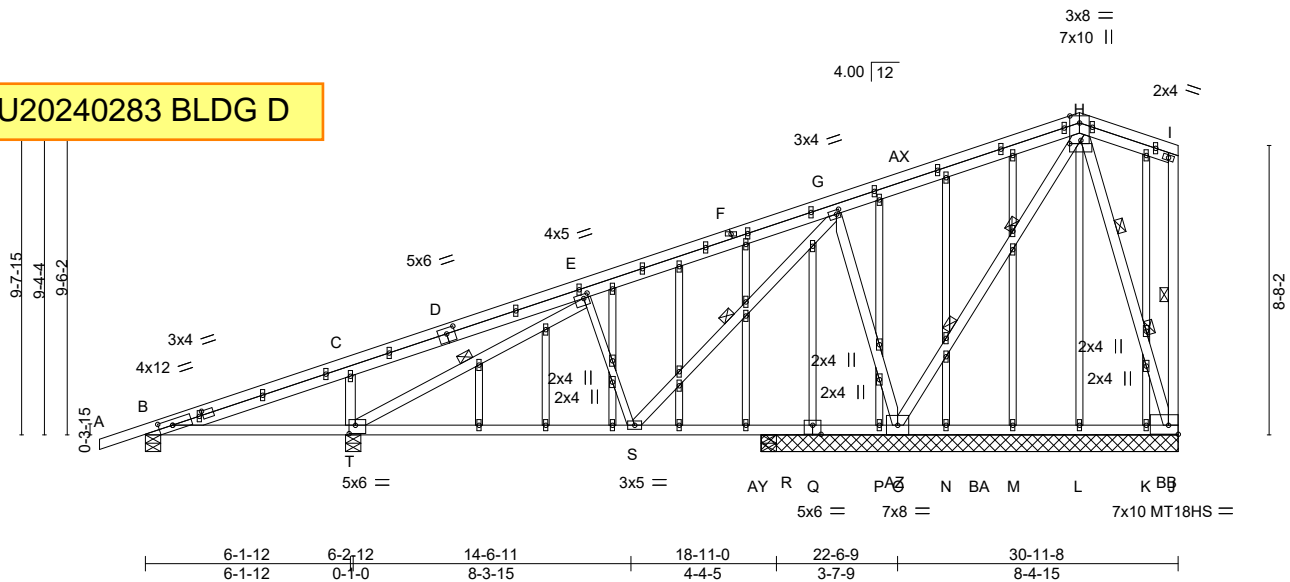


September 12, 2024

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.

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:22 2024 Page 1
 ID:hFyjDMxrTsEK_kgkR0vWWWzFfgc-Rfc?PsB70Hq3uNSgPqnL8w3ulTxbGKWRCDoi7J4zJC?f
 1-4-8 6-1-12 13-2-13 20-8-9 28-0-0 30-11-8
 1-4-8 6-1-12 7-1-1 7-5-12 7-3-7 2-11-8



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 1-4-12 oc bracing.
	E-S: 2x3 SPF No.2, H-O: 2x4 SPF 2100F 1.8E	WEBS	1 Row at midpt E-T, G-S, I-J
OTHERS	2x3 SPF No.2		2 Rows at 1/3 pts H-O, H-J

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

TOP CHORD B-C=-1871/1661, C-E=-1589/1525, E-G=-1305/1048, G-H=-2223/2315, H-I=-744/785

BOT CHORD B-T=-1672/1563, S-T=-3848/3965, R-S=-4478/4000, P-R=-4445/4400, O-P=-2509/2431, N-O=-4102/4141, M-N=-3325/3278, L-M=-2136/2089, K-L=-948/900, J-K=-950/903

WEBS C-T=-510/168, E-T=-2789/2606, E-S=-694/690, G-S=-798/1220, G-O=-1104/584, H-O=-3890/3747, H-J=-2804/2891

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	A1	GABLE	7	1	U1530772
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:23 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- NOTES-**
- 13) 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 18.5 ft to 20.11 ft for 504.4 plf
- 14)

PRMU20240283 BLDG D

 ft end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530773
N0653A	A2	Common	28	1	Job Reference (optional)	

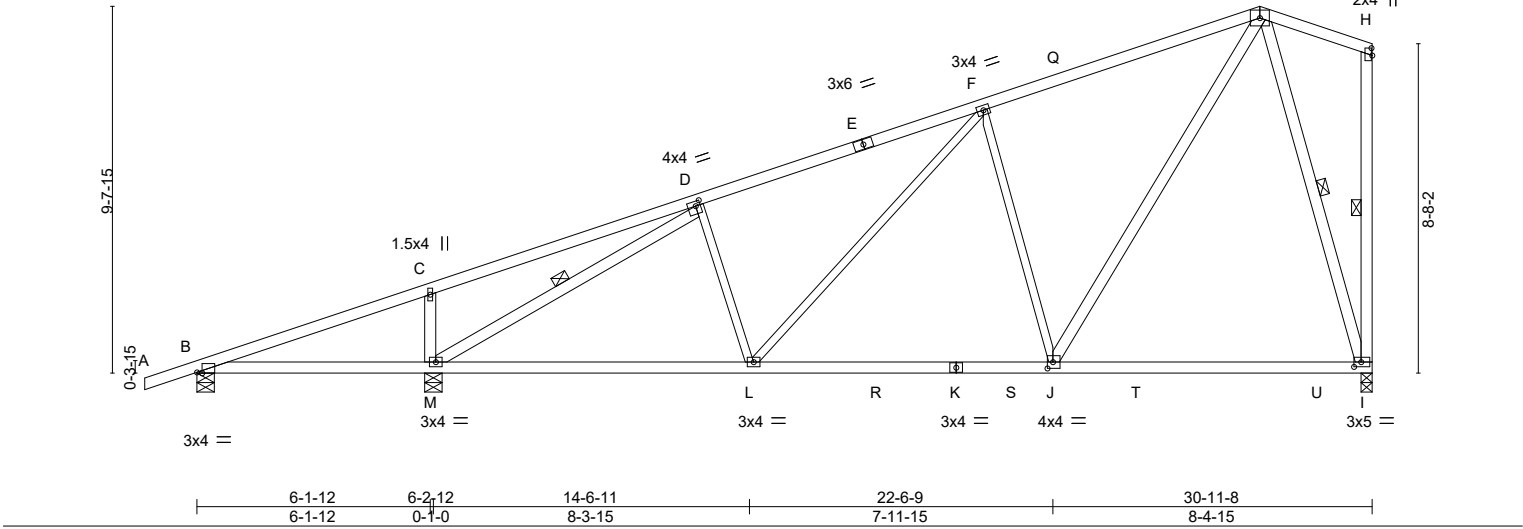
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:23 2024 Page 1
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PRMU20240283 BLDG D

Scale = 1:60.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.23	MT20		197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.37				
TCDL	12.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.04				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.04				
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SPF No.2 *Except*	WEBS	6-0-0 oc bracing: B-M.
	D-L,F-L,F-J: 2x3 SPF No.2		1 Row at midpt

REACTIONS.		D-M, H-I, G-I	
(size)	B=0-5-8, M=0-5-8, I=0-3-8		
Max Horz	B=276(LC 9)		
Max Uplift	B=-48(LC 6), M=-200(LC 10), I=-135(LC 6)		
Max Grav	B=300(LC 1), M=1668(LC 3), I=1254(LC 3)		

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	D-F=-1523/194, F-G=-1101/187
BOT CHORD	L-M=-179/1377, J-L=-126/1136, I-J=-87/337
WEBS	C-M=-513/167, D-M=-1746/193, F-L=-48/388, F-J=-782/218, G-J=-150/1234, G-I=-1135/137

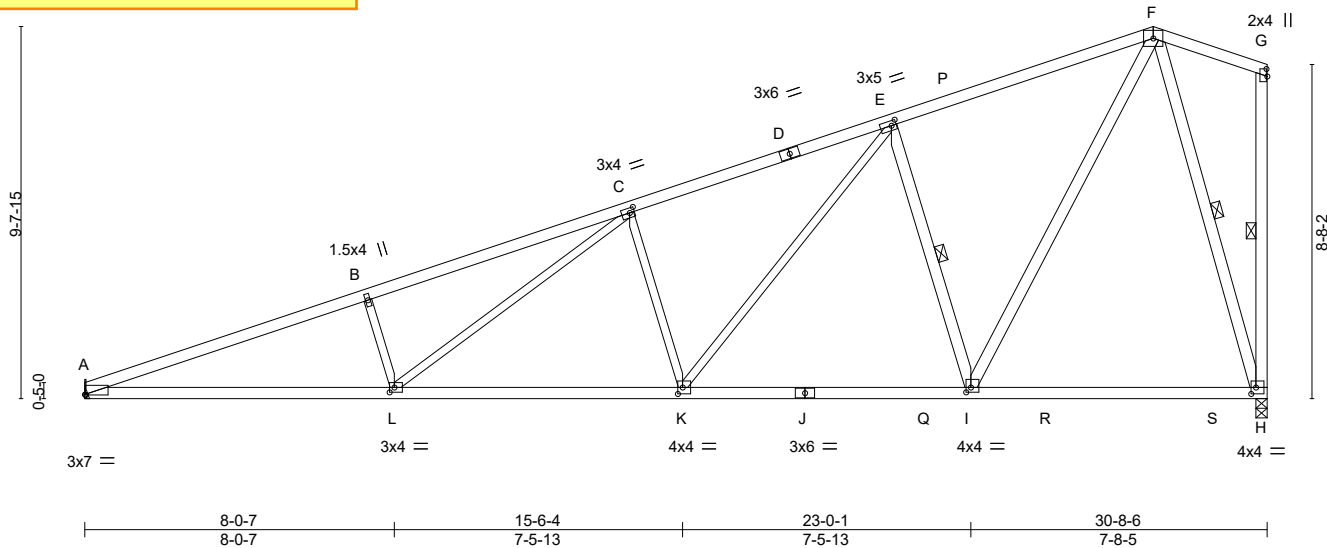
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; 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, 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 except (jt=lb) M=200, I=135.
 - 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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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:57 2024 Page 1
 ID:hFyJDMxrTsEK_kgkR0vWWVzFgC-vz5Z0lyb6AhmTLfzVJ67B8yBDzpGD1DDm9qWvyeVrG
 7-4-3 14-1-12 20-11-5 27-8-14 30-8-6
 7-4-3 6-9-9 6-9-9 6-9-9 2-11-8

$$4.00 \overline{)12} \qquad 5x6 = \qquad \text{Scale} = 1:59.8$$



LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* A-J: 2x4 SPF 2100F 1.8E WEBS 2x4 SPF No.2 *Except* B-L, C-L, C-K, E-K: 2x3 SPF No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt E-I, G-H, F-H
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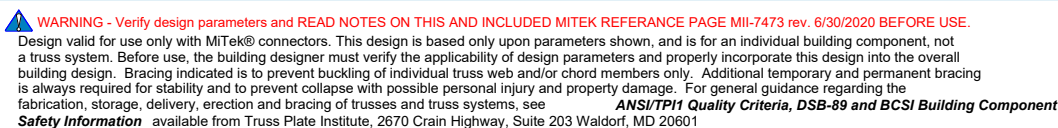
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	A-B=-3666/396, B-C=-3552/421, C-E=-2448/316, E-F=-1332/215
BOT CHORD	A-L=-460/3419, K-L=-303/2468, I-K=-151/1509, H-I=-88/433
WEBS	B-L=-491/167, C-L=-141/1068, C-K=-815/207, E-K=-156/1253, E-I=-1223/264, F-I=-201/1661, F-H=-1472/172

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=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) TCDL: 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 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, with BC DL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=160, H=174.
- 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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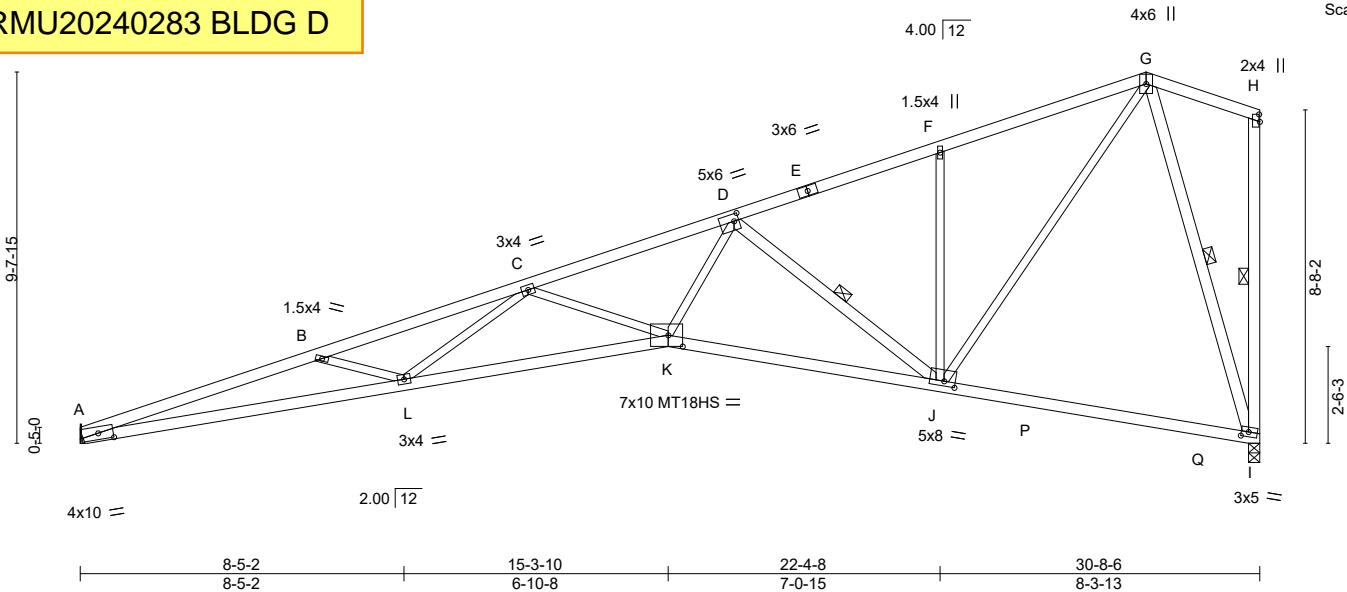
Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530821
N0653A	A3A	Scissor	30	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:58 2024 Page 1
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PRMU20240283 BLDG D

Scale = 1:60.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.57 K-L >639 360	MT20	197/144		
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.04 K-L >351 240	MT18HS	197/144		
TCDL	12.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.43 I n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.31 K-L >999 240				
BCDL	10.0							Weight: 124 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* A-E: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-3-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 8-3-13 oc bracing.
WEBS	2x3 SPF No.2 *Except* D-J,H-I,G-I: 2x4 SPF No.2	WEBS	1 Row at midpt D-J, H-I, G-I

REACTIONS. (size) A=Mechanical, I=0-3-8
Max Horz A=268(LC 9)
Max Uplift A=-160(LC 6), I=-174(LC 6)
Max Grav A=1496(LC 3), I=1541(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-6536/821, B-C=-6142/686, C-D=-4578/532, D-F=-1696/209, F-G=-1723/270
BOT CHORD A-L=-887/6230, K-L=-705/5293, J-K=-394/3304, I-J=-98/475
WEBS B-L=-456/187, C-L=-4/776, C-K=-1007/216, D-K=-229/2254, D-J=-2182/333, F-J=-504/147, G-J=-253/2028, G-I=-1485/166

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=160, I=174.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



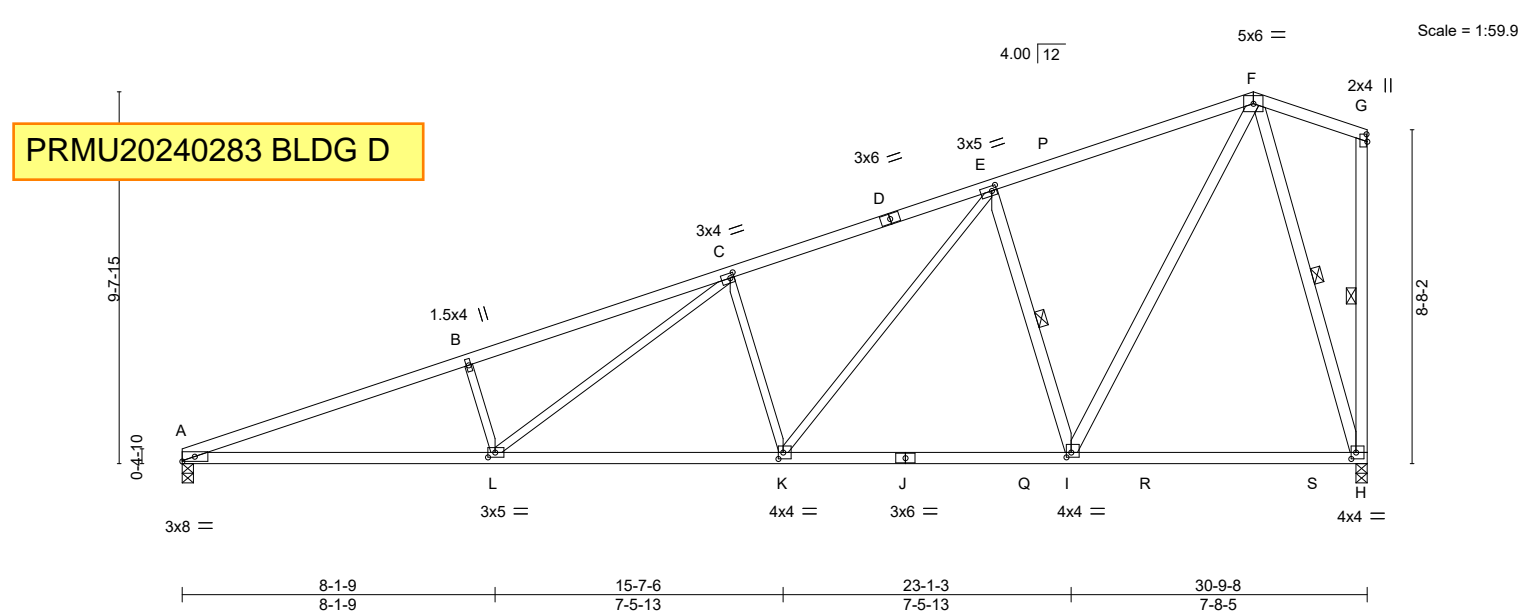
September 12,2024

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530822
N0653A	A4	Common	30	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:58 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-NAfxE5zDtTpc5VE27CqLgPh5idJ_?gFMRQvO2MyeVrF



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.23	K-L	>999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.42	K-L	>873		
TCDL	12.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	H	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.12	L	>999	Weight: 131 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt E-I, G-H, F-H
	B-L,C-L,C-K,E-K: 2x3 SPF No.2		

REACTIONS. (size) A=0-3-8, H=0-3-8
Max Horz A=268(LC 9)
Max Uplift A=-161(LC 6), H=-175(LC 6)
Max Grav A=1514(LC 3), H=1572(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3719/402, B-C=-3606/427, C-E=-2460/317, E-F=-1337/216
BOT CHORD A-L=-465/3472, K-L=-305/2483, I-K=-152/1515, H-I=-88/434
WEBS B-L=-503/168, C-L=-146/1113, C-K=-826/208, E-K=-157/1262, E-I=-1229/265, F-I=-201/1669, F-H=-1477/172

- 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
 - 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 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=161, H=175.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530823
N0653A	A5	GABLE	5	1	Job Reference (optional)	

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:00 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-JYnhem_UP53KKpOQFdsplqmS0Q1WTXWfVkuOU7EyeVrD

PRMU20240283 BLDG D

Scale = 1:69.2

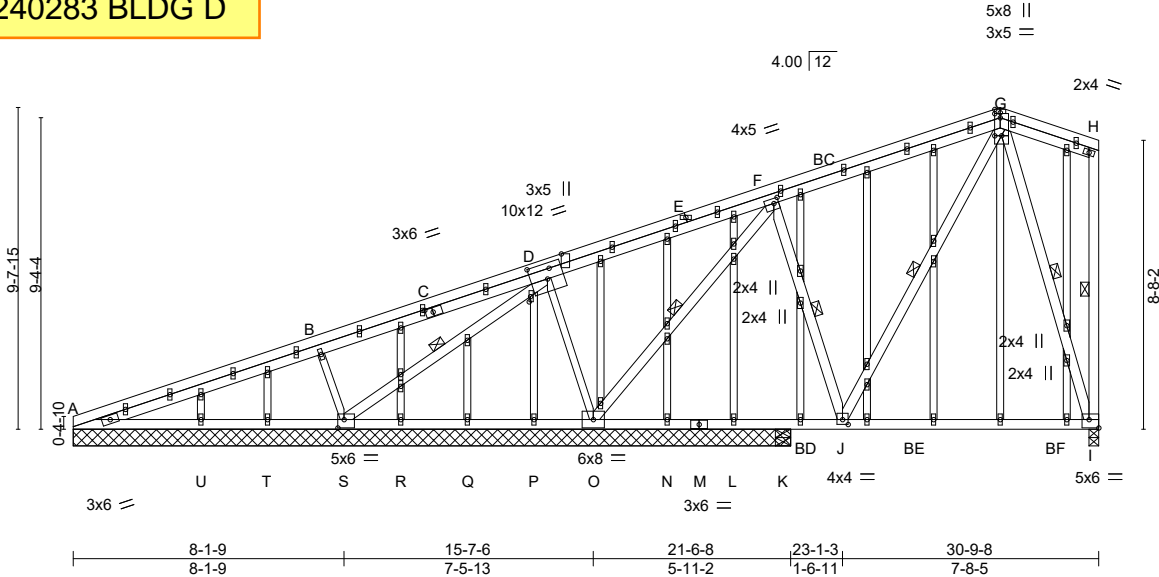


Plate Offsets (X,Y)--	[C:0-2-11,0-1-8], [D:0-6-0,0-5-8], [D:0-1-14,0-0-8], [D:0-5-3,Edge], [F:0-1-12,0-1-12], [G:0-1-8,0-2-0], [G:0-2-8,0-0-1], [G:0-2-0,Edge], [I:Edge,0-3-0], [J:0-2-0,0-1-12], [S:0-2-4,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.79	Vert(LL)	-0.17	I-J	>679	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	-0.26	I-J	>427		
TCDL 12.0	Lumber DOL 1.15	WB 0.86	Horz(CT)	-0.02	N	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.03	I-J	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 223 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-10-7 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt D-S, F-O, F-J, G-J, H-I, G-I
B-S,D-O: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 21-6-8 except (jt=length) I=0-3-8, K=0-5-8.
(lb) - Max Horz A=298(LC 38)	
Max Uplift	All uplift 100 lb or less at joint(s) T, U except S=-1694(LC 31), O=-1065(LC 31), I=-1279(LC 32), A=-840(LC 31), K=-116(LC 18)
Max Grav	All reactions 250 lb or less at joint(s) L, N, P, Q, R, T, U, K except S=1772(LC 52), O=1663(LC 28), I=1646(LC 25), A=920(LC 52), A=276(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-B=-259/2424, B-D=-957/932, D-F=-1614/1540, F-G=-1708/1570, G-H=-750/788
BOT CHORD	A-U=-2089/1978, T-U=-1312/1201, S-T=-547/515, R-S=-1794/1683, Q-R=-1210/1101, P-Q=-524/415, O-P=-996/887, N-O=-746/884, L-N=-873/979, K-L=-1381/1447, J-K=-1381/1447, I-J=-450/468
WEBS	B-S=-571/218, D-S=-2554/2513, D-O=-933/949, F-O=-2375/2163, F-J=-1136/1263, G-J=-1255/1387, G-I=-1543/1354

- 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) T, U except (jt=lb) S=1694, O=1065, I=1279, A=840, K=116, A=840.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) 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



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	A5	GABLE	5	1	U1530823

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:00 2024 Page 2

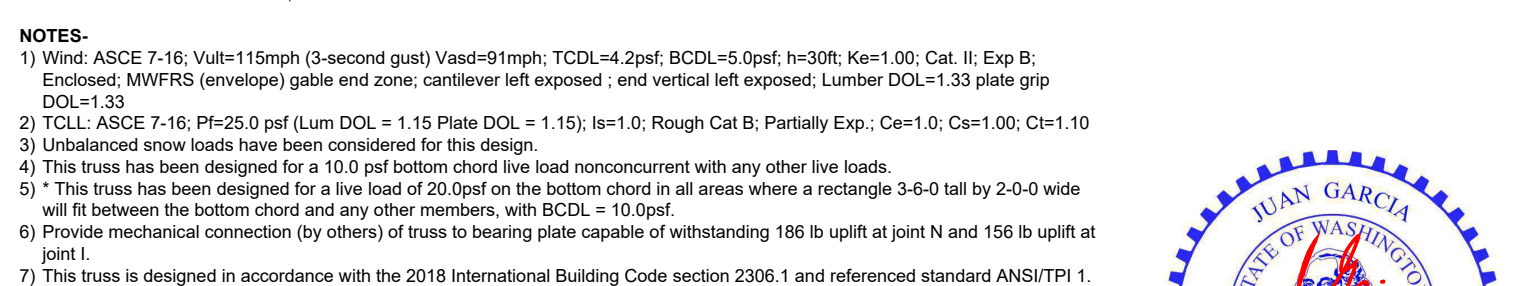
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NOTES-

12) No notches allowed in overhang and 0 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.

PRMU20240283 BLDG D

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:01 2024 Page 1
 ID:hFyjDMxrTsEK_kgkR0vWWVzFJgc-nL3s676A0BBzydoLN21JdLqOfCyOp7O72fygeVrC
 5-0-4 12-3-2 19-6-0 26-8-14 29-8-6
 5-0-4 7-2-14 7-2-14 7-2-14 2-11-8



September 12, 2024

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 MiteTek® 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530825
N0653A	A7	Scissor	14	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:01 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-nlL3s6?6A0BBzydoLN2i1JfSqMGC1pp7O72fgyeVrC

PRMU20240283 BLDG D

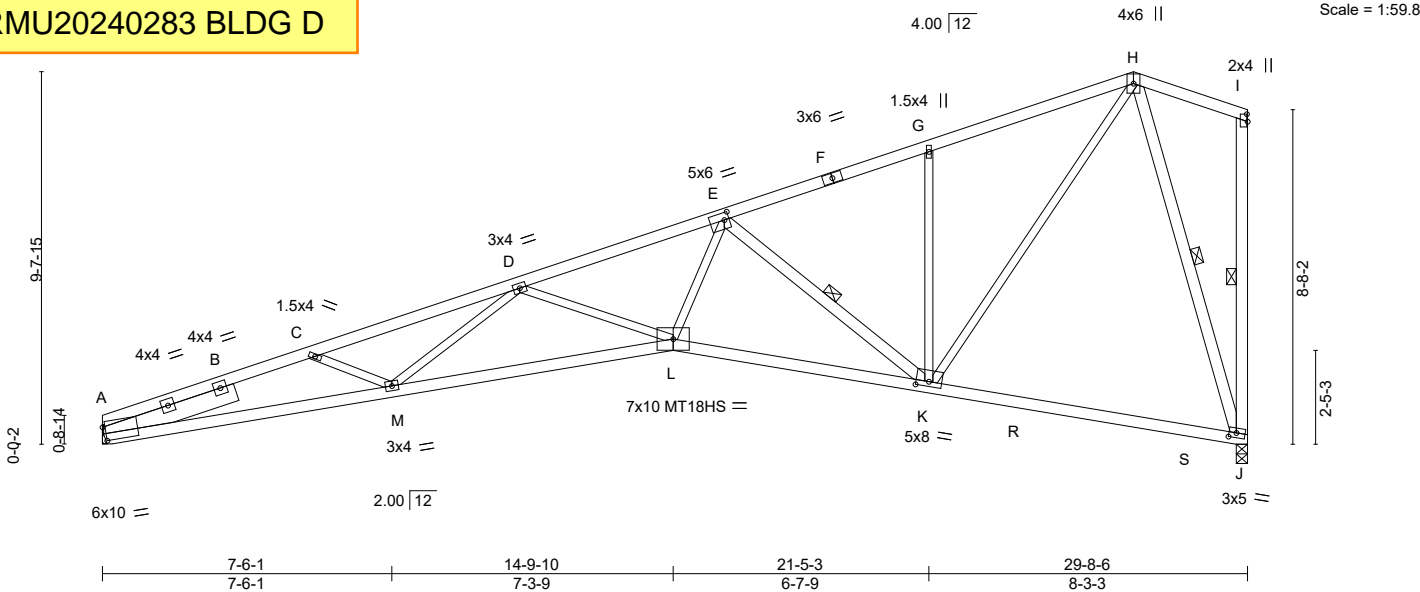


Plate Offsets (X,Y)--		[A:0-0-12,0-4-6], [E:0-1-8,0-2-4], [I:0-2-5,0-0-4], [J:0-2-4,0-1-8], [K:0-4-0,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL 25.0		Plate Grip DOL	1.15
(Roof Snow=25.0)		Lumber DOL	1.15
TCDL 12.0		Rep Stress Incr	YES
BCLL 0.0 *		Code IBC2018/TPI2014	
BCDL 10.0			
		CSI.	
		TC 0.68	
		BC 0.70	
		WB 0.66	
		Matrix-MS	
		DEFL.	
		in (loc)	I/defl L/d
		Vert(LL) -0.41 L-M	>869 360
		Vert(CT) -0.75 L-M	>470 240
		Horz(CT) 0.31 J	n/a n/a
		Wind(LL) 0.21 L-M	>999 240
		PLATES	GRIP
		MT20	197/144
		MT18HS	197/144
		Weight: 128 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* A-F: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 9-7-6 oc bracing.
WEBS	2x3 SPF No.2 *Except* E-K,I-J,H-J: 2x4 SPF No.2	WEBS	1 Row at midpt E-K, I-J, H-J
SLIDER	Left 2x6 SPF No.2 3-7-10		

REACTIONS. (size) A=Mechanical, J=0-3-8
Max Horz A=264(LC 9)
Max Uplift A=-154(LC 6), J=-169(LC 6)
Max Grav A=1448(LC 3), J=1491(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-4837/607, C-D=-4865/548, D-E=-3946/460, E-G=-1611/201, G-H=-1637/262
BOT CHORD A-M=-663/4569, L-M=-610/4472, K-L=-362/3067, J-K=-98/459
WEBS D-M=0/324, D-L=-789/191, E-L=-183/1864, E-K=-2001/306, G-K=-501/146, H-K=-243/1928, H-J=-1429/161

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint A and 169 lb uplift at joint J.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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

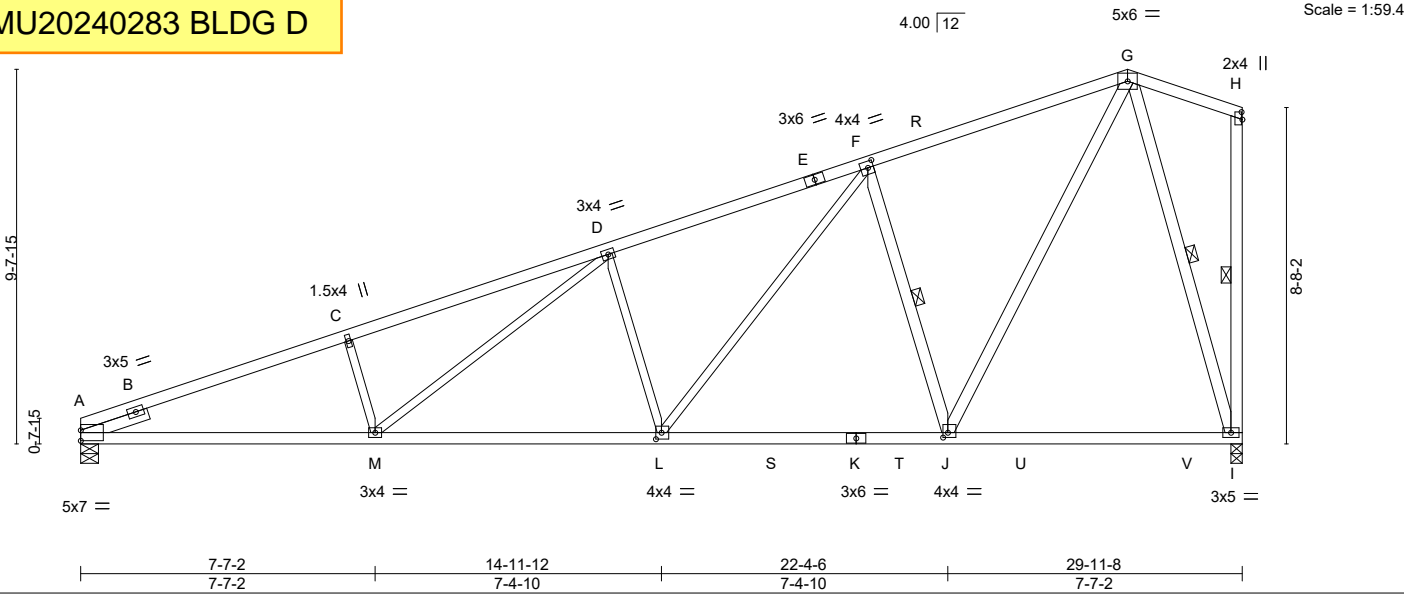


Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530826
N0653A	A8	Common	2	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:02 2024 Page 1
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PRMU20240283 BLDG D



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.21 L-M >999 360	MT20		197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.39 L-M >914 240				
TCDL	12.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07 I n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.10 L-M >999 240				
BCDL	10.0							Weight: 131 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* A-E: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* A-K: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except* C-M,D-M,D-L,F-L: 2x3 SPF No.2	WEBS	1 Row at midpt F-J, H-I, G-I
SLIDER	Left 2x4 SPF No.2 1-9-12		

REACTIONS.	
(size)	A=0-5-8, I=0-3-8
Max Horz	A=264(LC 9)
Max Uplift	A=-155(LC 6), I=-170(LC 6)
Max Grav	A=1476(LC 3), I=1532(LC 3)

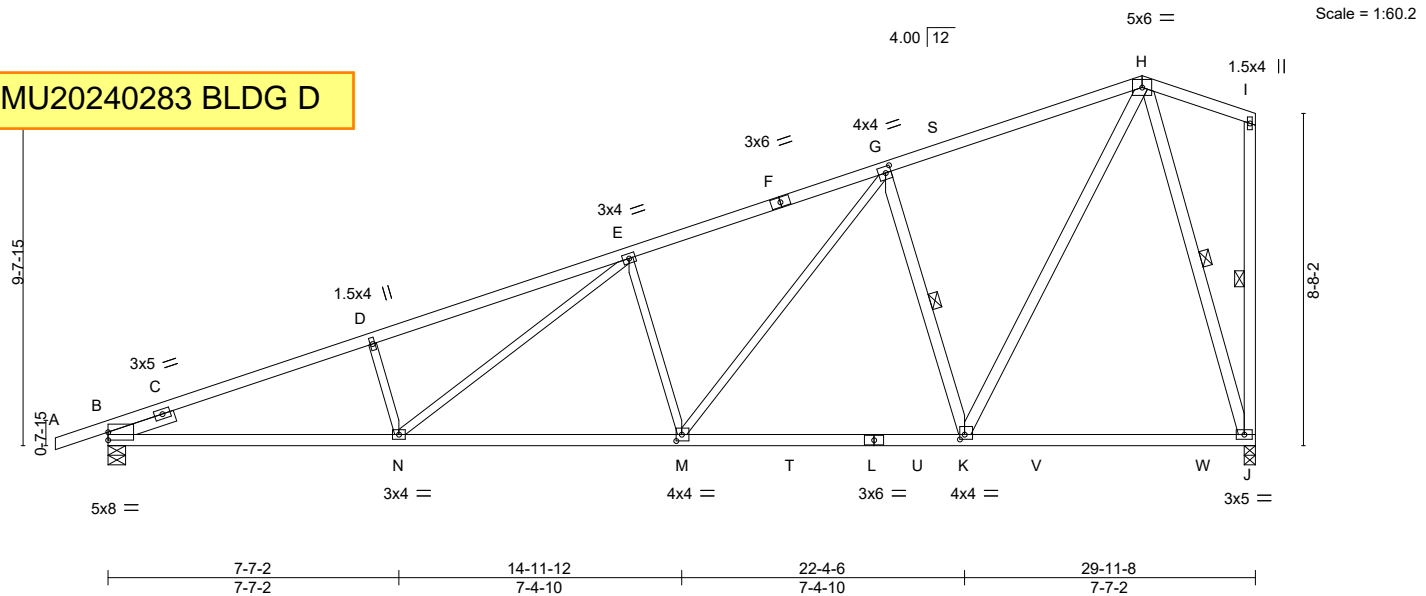
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-C=-3225/352, C-D=-3137/378, D-F=-2323/303, F-G=-1277/209
BOT CHORD	A-M=-412/2999, L-M=-286/2327, J-L=-143/1444, I-J=-88/422
WEBS	C-M=-377/150, D-M=-111/766, D-L=-749/200, F-L=-149/1181, F-J=-1177/257, G-J=-193/1599, G-I=-1437/167

- 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint A and 170 lb uplift at joint I.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:03 2024 Page 1
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 1-4-8 6-10-14 13-7-4 20-3-10 27-0-0 29-11-8
 1-4-8 6-10-14 6-8-6 6-8-6 6-8-6 2-11-8



LUMBER-		BRACING-
TOP CHORD	2x4 SPF No.2 *Except* A-F: 2x4 SPF 2100F 1.8E	TOP CHORD
BOT CHORD	2x4 SPF No.2 *Except* B-L: 2x4 SPF 2100F 1.8E	BOT CHORD
WEBS	2x4 SPF No.2 *Except* D-N,E-N,E-M,G-M: 2x3 SPF No.2	WEBS
SLIDER	Left 2x4 SPF No.2 1-9-12	
REACTIONS.		
	(size) B=0-5-8, J=0-3-8	
	Max Horz B=271(LC 6)	
	Max Uplift B=-181(LC 6), J=-188(LC 6)	
	Max Grav B=1563(LC 3), J=1531(LC 3)	
FORCES.		
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	B-D=-3205/292, D-E=-3116/318, E-G=-2318/245, G-H=-1275/149	
BOT CHORD	B-N=-486/2978, M-N=-361/2321, K-M=-216/1442, J-K=-63/422	
WEBS	D-N=-369/150, E-N=-111/749, E-M=-744/200, G-M=-151/1177, G-K=-1174/258, H-K=-186/1596, H-J=-1434/223	

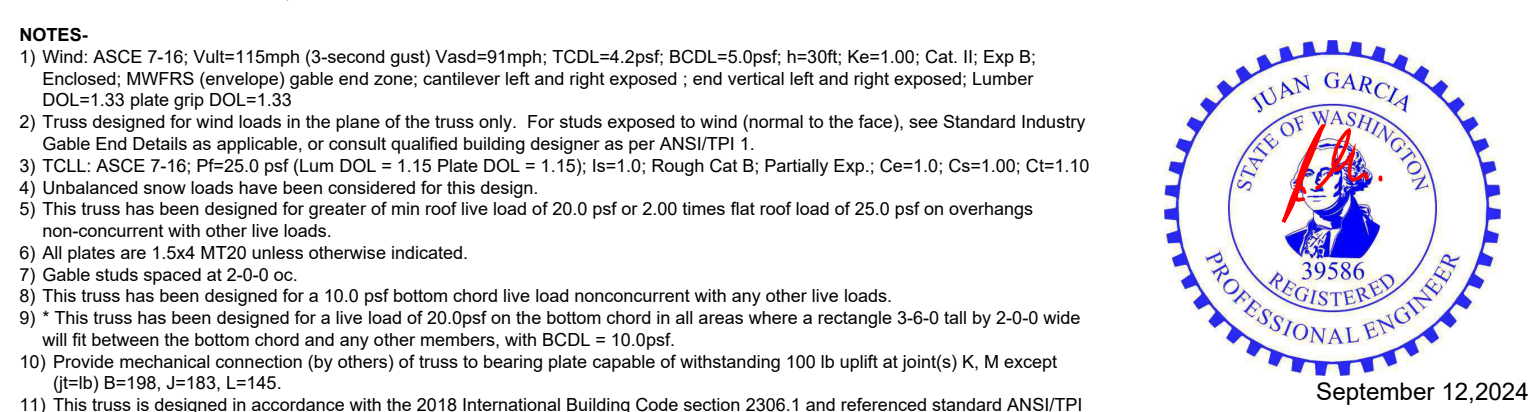
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.

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



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:47 2024 Page 1
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 1-4-8 6-10-14 13-7-4 20-3-10 27-0-0 29-11-8
 1-4-8 6-10-14 6-8-6 6-8-6 6-8-6 2-11-8



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

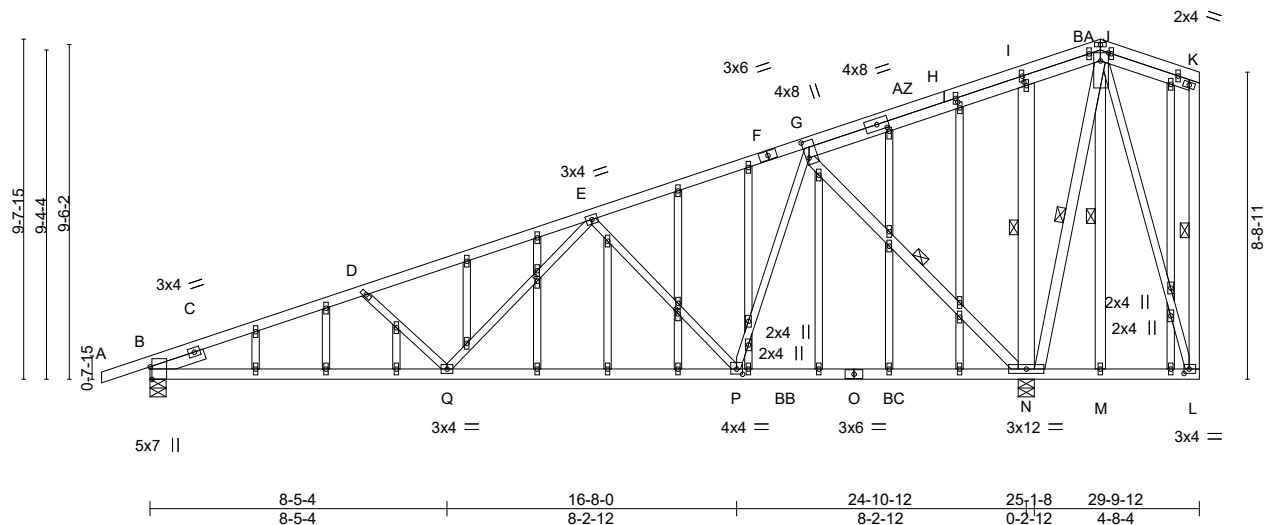
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component*

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



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:48 2024 Page 1
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 1-4-8 6-4-9 6-2-1 6-2-1 6-2-1 2-1-4 2-9-12

4.00 | 12 5x12 || Scale = 1:65.5

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LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* G-N, J-N, K-L: 2x4 SPF No.2, I-N: 2x6 SPF No.2	WEBS	1 Row at midpt G-N, I-N, J-N, K-L, J-M
OTHERS	2x3 SPF No.2 *Except* J-M: 2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 1-7-4		

REACTIONS. (size) B=0-5-8, N=0-5-8
 Max Horz B=265(LC 9)
 Max Uplift B=-168(LC 6), N=-203(LC 6)
 Max Grav B=1263(LC 3), N=1742(LC 3)

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

TOP CHORD	B-D=-2427/278, D-E=-2187/227, E-G=-1200/154
BOT CHORD	B-Q=-347/2252, P-Q=-223/1591, N-P=-84/804
WEBS	D-Q=-396/149, E-Q=-26/641, E-P=-793/183, G-P=-55/941, G-N=-1251/212, I-N=-475/123, J-N=-360/115

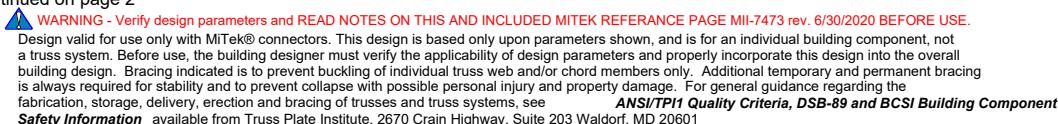
NOTES-

- 1) 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
- 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) TCDL: 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 studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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) B=168, N=203.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	A11	GABLE	2	1	U1530829

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

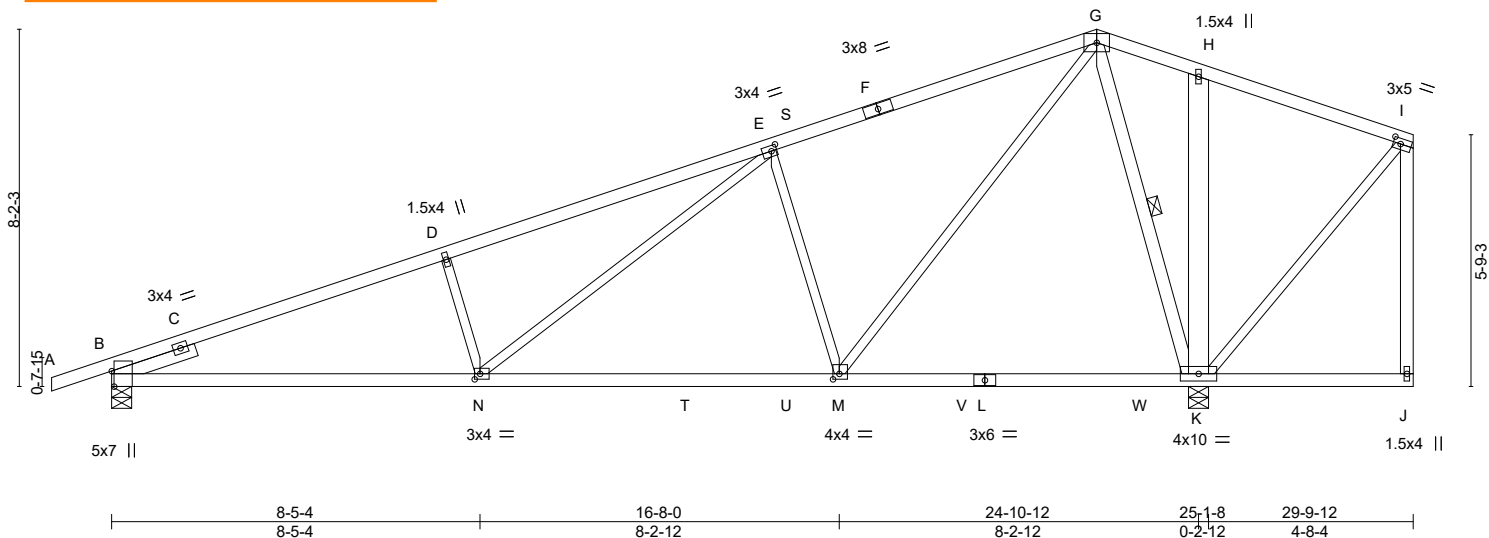
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:48 2024 Page 2
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- NOTES-**
- 12) No notches allowed in overhang and 200100 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at ~~2.0 o.c. maximum between the stacking chords.~~ For edge-wise notching, provide at least one tie plate between each notch.

PRMU20240283 BLDG D

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:50 2024 Page 1
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 1-4-8 7-7-15 7-5-7 7-5-7 2-4-0 4-11-0

4 00 $\overline{12}$ $5 \times 7 =$ Scale = 1:52.8

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REACTIONS. (size) B=0-5-8, K=0-5-8
 Max Horz B=198(LC 10)
 Max Uplift B=-165(LC 6), K=-161(LC 6)
 Max Grav B=1313(LC 3), K=1776(LC 2)

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

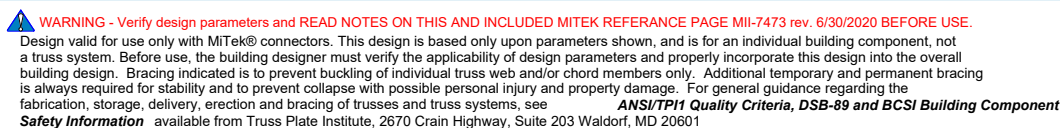
TOP CHORD	B-D=-2500/248, D-E=-2401/276, E-G=-1381/184, H-I=-9/265
BOT CHORD	B-N=-372/2316, M-N=-223/1462, K-M=-47/295
WEBS	D-N=-461/168, E-N=-132/1007, E-M=-1008/241, G-M=-183/1541, G-K=-1296/184, H-K=-480/108, I-K=-269/41

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 exposed ; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCDL: 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, 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=165, K=161.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

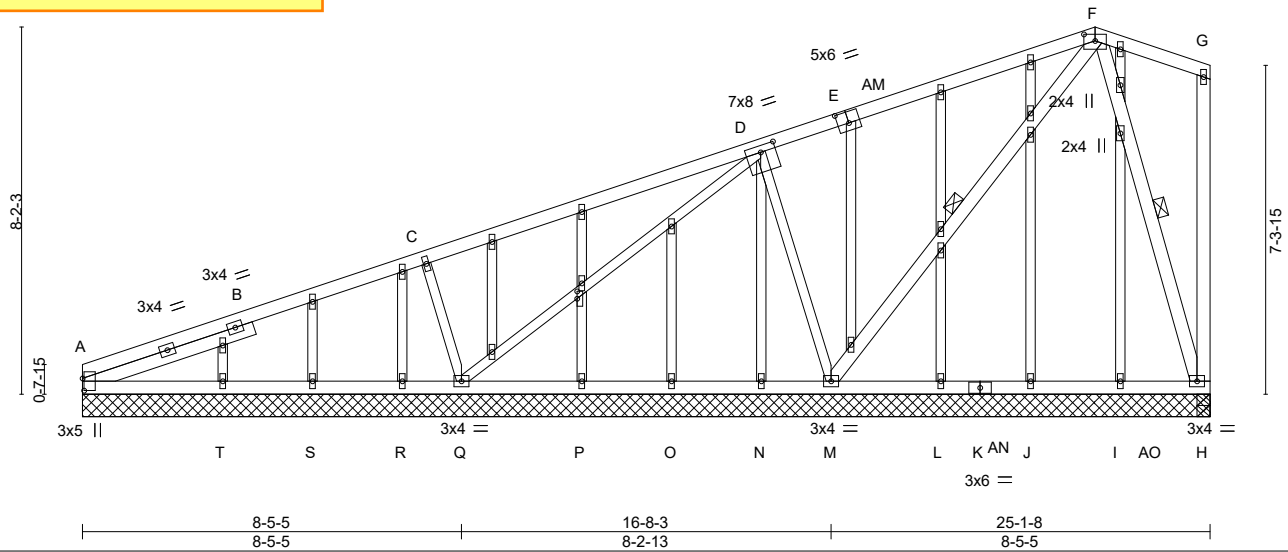


September 12, 2024



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:50 2024 Page 1
 ID:hFyjDMxrTsEK_kgkR0vWWWvzFlgc-cdAvYmTcM0pl7GdvfXhTLJLq9Okv7AHBcBzympeVrN
 7-7-15 15-1-5 22-6-12 25-1-8
 7-7-15 7-5-7 7-5-7 2-6-12

4.00 $\overline{12}$ 4x6 = Scale = 1:51.3



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.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt F-M, F-H
	C-Q,D-Q,D-M: 2x3 SPF No.2		
OTHERS	2x3 SPF No.2		
SLIDER	Left 2x4 SPF No.2 4-0-1		

REACTIONS. All bearings 25-1-8.
(lb) - Max Horz A=112(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A, Q, M, H, N
Max Grav All reactions 250 lb or less at joint(s) A, Q, M, H, I, J, L, N, O, P,
R, S, T

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-256/19
WEBS C-Q=-264/93

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left 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) TCDL: 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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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 BC DL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, Q, M, H, N.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024



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, DSR-89 and BCSP Building**

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



240 Stirling Crescent
Bradford, ON, L3Z 4L5

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:52 2024 Page 1
 ID:hFyjDMxrTsEK_kgkR0vWwVzFlgc-Y0lgz1uSl3d3TNamunyjxQ8RDpCQ5b3EU3US3qiyeVrL



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		
WEBS	2x3 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
	G-N,H-I,G-I: 2x4 SPF No.2	WEBS	1 Row at midpt G-N, G-I
OTHERS	2x3 SPF No.2		

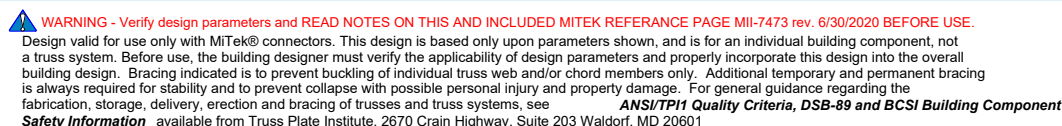
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-S=-269/91, F-N=-260/79

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 exposed ; end vertical left 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 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 1x4 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, S, N, I, Q.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

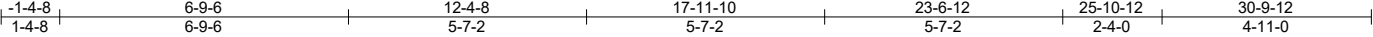


Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530833
N0653A	A15	Roof Special	6	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:52 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-Y0lgz1uSld3TNamunyjxQ8R23CGdbutU3US3qiyeVrL



PRMU20240283 BLDG D

Scale = 1:54.1

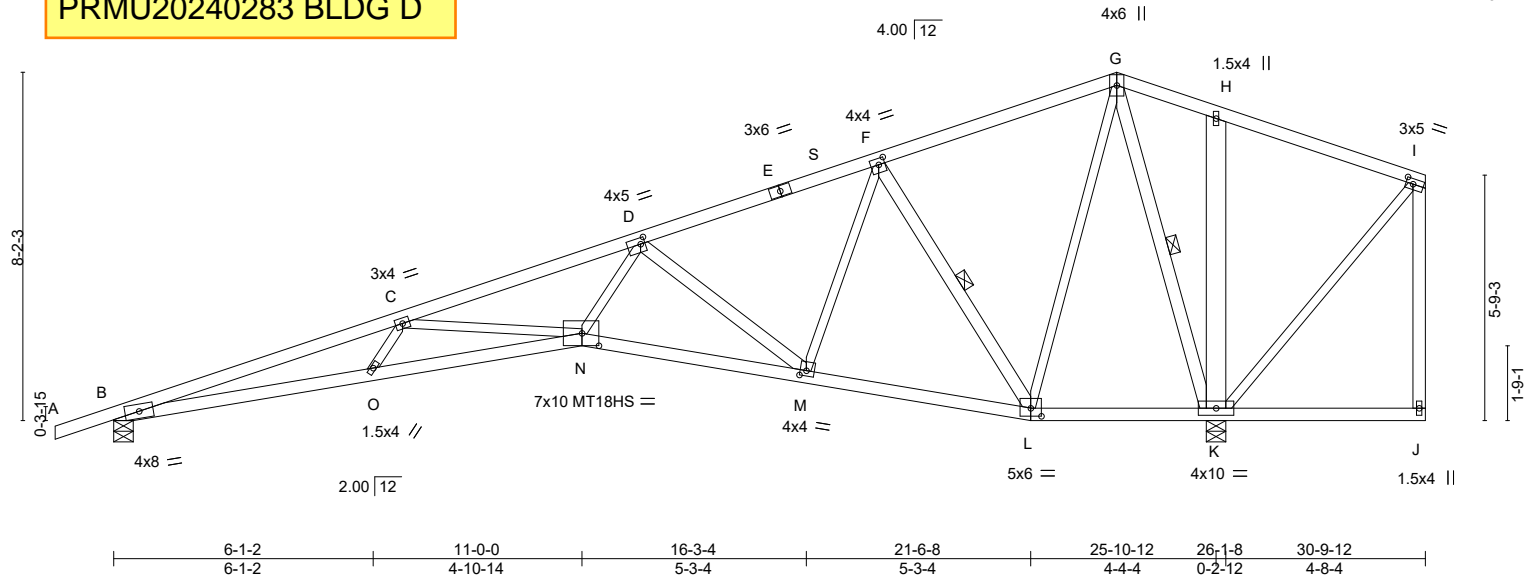


Plate Offsets (X,Y)--	[D:0-1-4,0-1-12], [F:0-1-12,0-1-12], [I:0-2-0,0-1-8], [L:0-3-0,0-2-4], [M:0-1-12,0-1-8], [N:0-4-12,0-3-8]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.98	Vert(LL)	-0.41	N-O	>752	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.80	Vert(CT)	-0.75	N-O	>417	MT18HS	197/144
TCDL 12.0	Lumber DOL 1.15	WB 0.90	Horz(CT)	0.30	K	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.23	N-O	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 138 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 9-2-5 oc bracing.
B-N: 2x4 SPF 2100F 1.8E	WEBS 1 Row at midpt F-L, G-K
WEBS 2x3 SPF No.2 *Except*	
D-M,F-L,G-K,I-J: 2x4 SPF No.2, H-K: 2x6 SPF No.2	

REACTIONS. (size) B=0-5-8, K=0-5-8
Max Horz B=166(LC 9)
Max Uplift B=-182(LC 6), K=-200(LC 7)
Max Grav B=1339(LC 17), K=1704(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-5336/630, C-D=-4305/511, D-F=-1825/226, F-G=-720/138, H-I=-54/272
BOT CHORD B-O=-679/5068, N-O=-716/5048, M-N=-412/3163, L-M=-144/1361, K-L=-25/299
WEBS C-N=-971/206, D-N=-192/1829, D-M=-1881/304, F-M=-97/1089, F-L=-1465/228, G-L=-134/1151, G-K=-1320/143, H-K=-503/117, I-K=-280/56

- 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) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=182, K=200.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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

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

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	A16	GABLE	2	1	

U1530834

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:53 2024 Page 1

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PRMU20240283 BLDG D

Scale = 1:73.6

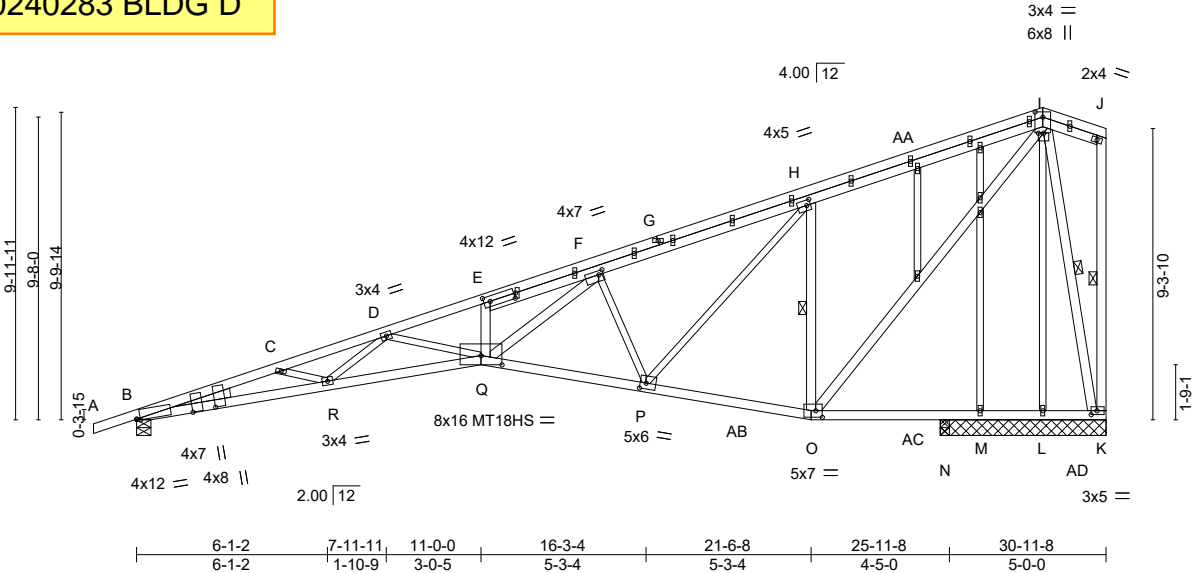


Plate Offsets (X,Y)--	[B:0-1-7,Edge], [B:0-0-14,1-9-12], [B:0-0-6,2-6-10], [E:0-2-0,0-0-1], [E:0-2-8,0-2-0], [F:0-1-12,0-1-8], [H:0-1-8,0-2-0], [I:0-2-0,0-3-0], [I:0-2-0,0-0-0], [K:0-2-4,0-1-8], [O:0-2-8,0-2-8], [P:0-2-4,0-2-4], [Q:0-8-0,0-3-9]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.95	Vert(LL) -0.66 Q-R >468 360	MT18HS	197/144
TCDL 12.0	Lumber DOL 1.15	WB 0.90	Vert(CT) -1.20 Q-R >259 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.42 K n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) 0.38 Q-R >817 240	Weight: 181 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
A-G: 2x4 SPF 2100F 1.8E	
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
B-Q: 2x4 SPF 2100F 1.8E	
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt H-O, J-K, I-K
D-Q,F-P,H-P,D-R,C-R: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS.	All bearings 5-3-8 except (it=length) B=0-5-8, N=0-3-8.
(lb) - Max Horz B=289(LC 9)	
Max Uplift All uplift 100 lb or less at joint(s) L, N except B=-208(LC 6), K=-185(LC 6), M=-480(LC 17)	
Max Grav All reactions 250 lb or less at joint(s) M except B=1529(LC 3), K=1212(LC 17), L=251(LC 21), N=722(LC 3)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-7397/948, C-D=-7170/879, D-E=-6314/798, E-F=-6399/846, F-H=-2712/371, H-I=-1441/294	
BOT CHORD B-R=-1027/7170, Q-R=-964/6689, P-Q=-454/3260, O-P=-172/1360, N-O=-91/256, M-N=-91/256, L-M=-91/256, K-L=-91/256	
WEBS D-Q=-605/137, F-P=-1635/303, H-P=-228/1842, H-O=-1557/324, I-O=-296/1675, I-K=-1335/206, E-Q=-357/86, D-R=0/324, C-R=-301/97, F-Q=-491/3657	

- 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



September 12,2024

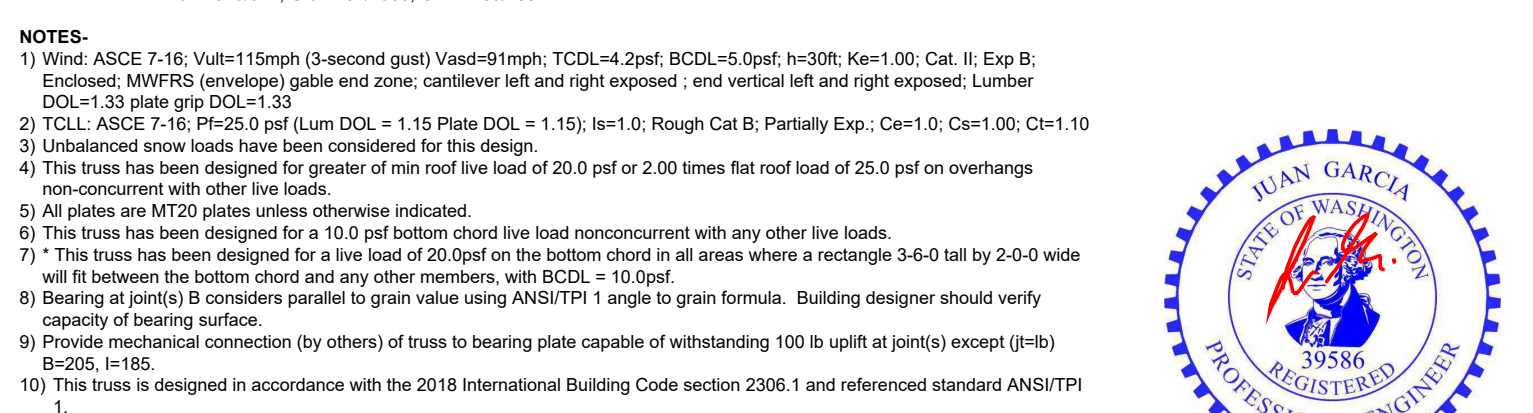
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	A16	GABLE	2	1	U1530834

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

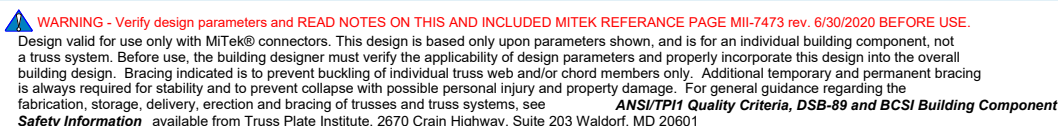
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:53 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzF1gc-0Cs2ANv53xBK_kL4KfEAzLzF4caXKL9d18BdN8yeVrK

- NOTES-**
- 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 with BCDL = 10.0psf
- 11) PRMU20240283 BLDG D using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) to bearing plate capable of withstanding 100 lb uplift at joint(s) L, N except (jt=lb) B=208, K=185, M=480.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) No notches allowed in overhang and 120800 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.

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:54 2024 Page 1
 ID:hFyJDMxrTSEK_kgkR0vWWVzFfgc-VPQQOjwqFJBcuwHuNIPVZW0i0wc3rcnWoxAvayeVrJ
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 1-4-8 7-11-11 6-9-6 6-9-6 7-4-12 2-0-4



September 12, 2024



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530836
N0653A	A18	ROOF SPECIAL	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:55 2024 Page 1
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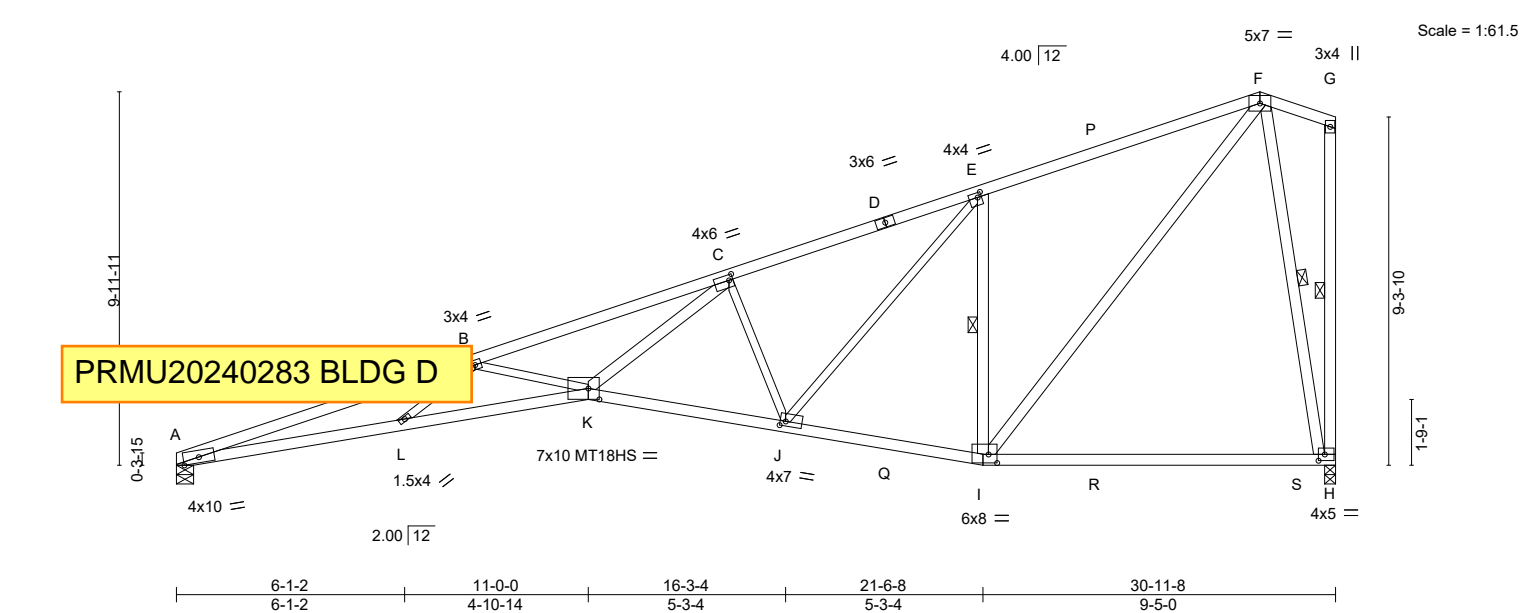


Plate Offsets (X,Y)--	[C:0-1-4,0-1-12], [E:0-1-4,0-1-8], [H:0-2-0,0-2-0], [I:0-2-12,0-2-12], [J:0-1-12,0-1-8], [K:0-3-8,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.95	Vert(LL)	-0.56	K-L	>663	MT20	197/144
TCDL 12.0	Plate Grip DOL 1.15	BC 0.90	Vert(CT)	-1.01	K-L	>366	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Horz(CT)	0.37	H	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.31	K	>999		
	Code IBC2018/TPI2014						Weight: 135 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* A-D: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E *Except* I-K: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-3-2 oc bracing.
WEBS 2x4 SPF No.2 *Except* B-L,B-K,C-J,E-J: 2x3 SPF No.2	WEBS 1 Row at midpt E-I, G-H, F-H

REACTIONS. (size) A=0-5-8, H=0-3-8
Max Horz A=292(LC 9)
Max Uplift A=-160(LC 6), H=-186(LC 6)
Max Grav A=1515(LC 3), H=1589(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-6852/778, B-C=-5866/686, C-E=-2810/361, E-F=-1647/287
BOT CHORD A-L=-847/6531, K-L=-913/6372, J-K=-405/3204, I-J=-152/1517, H-I=-85/288
WEBS B-L=0/297, B-K=-870/233, C-K=-365/3093, C-J=-1553/292, E-J=-232/1760,
E-I=-1528/323, F-I=-288/1966, F-H=-1441/199

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) A 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) A=160, H=186.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530837
N0653A	A19	GABLE	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:56 2024 Page 1
ID:hFyJDMxrTsEK_kgkR0vWWVzFlgc-RnXApPxzLsZvrB4f0notb_bnYpdmXio4_6QH_TyeVrH

PRMU20240283 BLDG D

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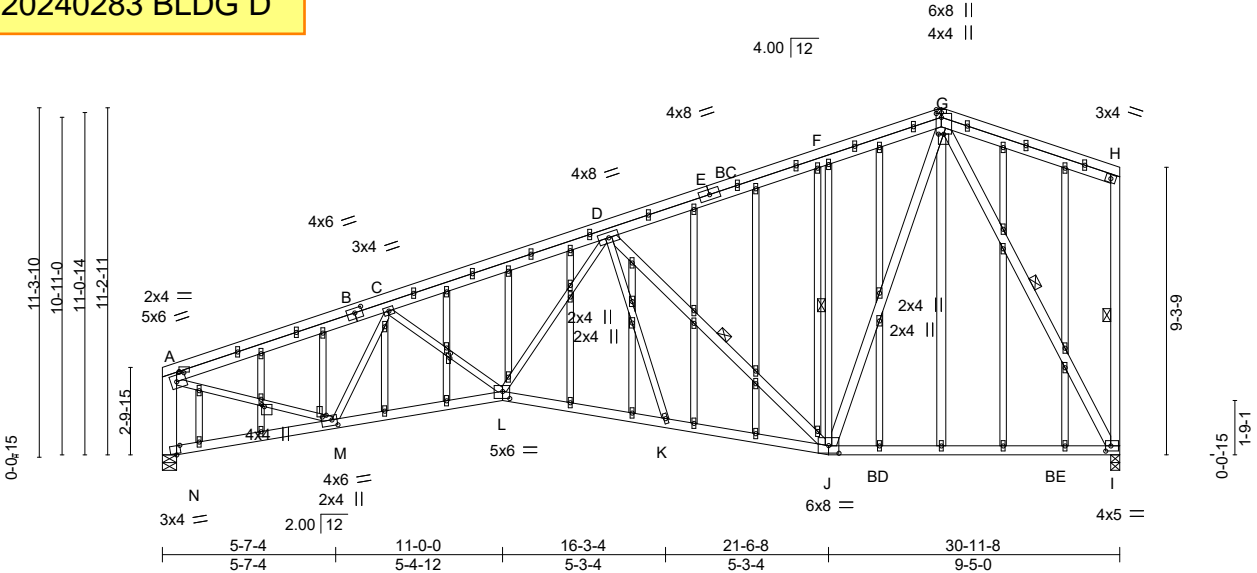


Plate Offsets (X,Y)--	[A:0-3-12,0-2-8], [A:0-0-0,0-0-4], [B:0-3-0,0-1-12], [G:0-2-0,Edge], [G:0-1-8,0-2-0], [G:0-0-1,0-2-0], [I:0-2-0,0-2-0], [J:0-4-0,0-2-15], [L:0-2-12,0-2-12], [M:0-2-0,0-2-4], [M:0-0-11,0-1-8], [N:0-1-13,Edge], [AJ:0-1-14,0-0-4], [AP:0-0-13,0-1-0]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.75	Vert(LL) -0.44	I-J	>829	360	MT20	197/144
TCDL 12.0	Plate Grip DOL 1.15	BC 0.79	Vert(CT) -0.70	I-J	>521	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Horz(CT) 0.13	I	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL) 0.08	L	>999	240	Weight: 264 lb	FT = 20%
	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* I-J: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt D-J, F-J, H-I, G-I
OTHERS 2x3 SPF No.2 *Except*	
G-O: 2x4 SPF No.2	

REACTIONS. (size) I=0-3-8, N=0-5-8
Max Horz N=259(LC 7)
Max Uplift I=-151(LC 6), N=-156(LC 6)
Max Grav I=1547(LC 2), N=1523(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-2234/231, C-D=-2811/333, D-F=-1293/187, F-G=-1280/243, A-N=-1448/190, H-I=-307/71
BOT CHORD M-N=-254/101, L-M=-347/2486, K-L=-237/2128, J-K=-219/2182, I-J=-115/668
WEBS C-M=-940/175, D-L=-103/959, D-J=-1377/202, F-J=-594/151, G-J=-197/1491, A-M=-189/2083, G-I=-1384/147

- 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) 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.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=151, N=156.
 - 11) 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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Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	A19	GABLE	1	1	U1530837

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:47:56 2024 Page 2
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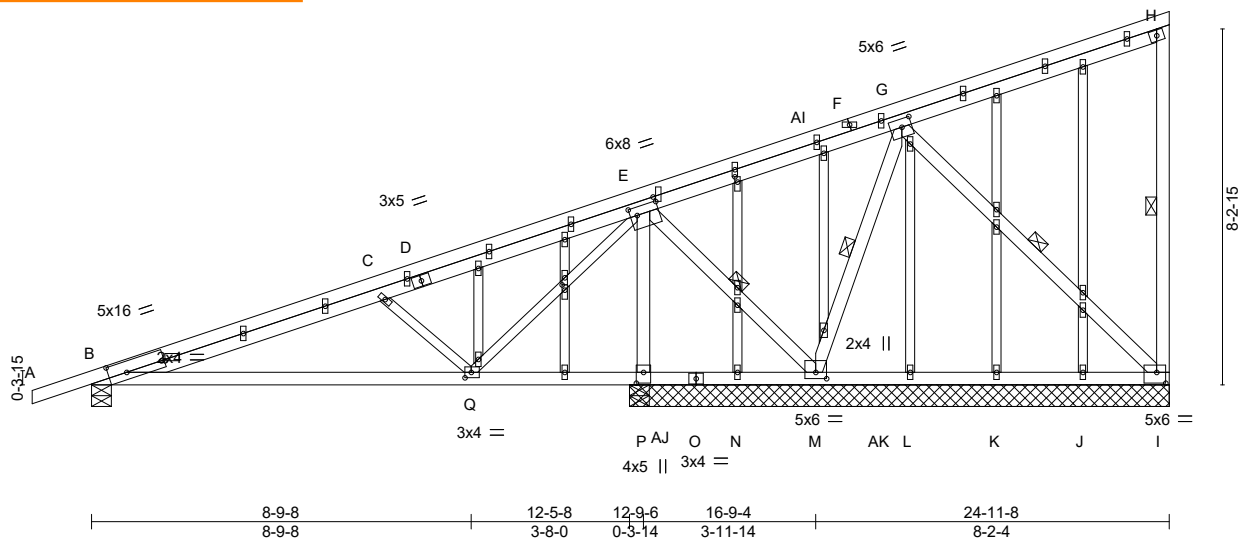
NOTES-

12) No notches allowed in overhang and 0 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.~~

PRMU20240283 BLDG D

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:24 2024 Page 1
 ID:hFyjDMxrTsEK_gkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
 -1-4-8 6-9-9 12-9-6 18-9-3 24-11-8
 1-4-8 6-9-9 5-11-13 5-11-13 6-2-5

4 00 $\overline{12}$ $3 \times 4 =$ Scale = 1:53.4




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 0.72	Vert(LL) -0.17 Q-AH >877 360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.32 Q-AH >466 240		
TCDL 12.0	Rep Stress Incr YES	WB 0.91	Horz(CT) -0.05 J n/a n/a		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.10 Q-AH >999 240	Weight: 158 lb	FT = 20%
BCDL 10.0					

REACTIONS. All bearings 12-6-0 except (jt=length) B=0-5-8.
 (lb) - Max Horz B=618(LC 35)
 Max Uplift All uplift 100 lb or less at joint(s) J, K, L, N except I=-1485(LC 35),
 B=750(LC 32), P=-2877(LC 32)
 Max Grav All reactions 250 lb or less at joint(s) J, K, L, N except I=1484(LC 52),
 B=1165(LC 27), P=3277(LC 29), P=1257(LC 1)

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

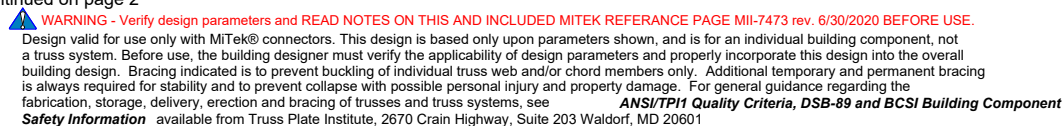
TOP CHORD B-C=-2245/1859, C-E=-1537/1247, E-G=-1020/906, G-H=-1678/1585, H-I=-290/53
 BOT CHORD B-Q=-1911/2105, P-Q=-2060/1926, N-P=-1835/1714, M-N=-816/671, L-M=-2542/2482,
 K-L=-1494/1434, J-K=-629/582, I-J=-1517/1457

WEBS C-Q=-573/193, E-Q=-164/965, E-M=-2921/3050, G-M=-2273/2225, G-I=-2018/2061,
 E-P=-3216/2858

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=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) TCLK: 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 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) J, K, L, N except (jt=lb) I=1485, B=750, P=2877.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 

September 12, 2024

Continued on page 2



September 12, 2024



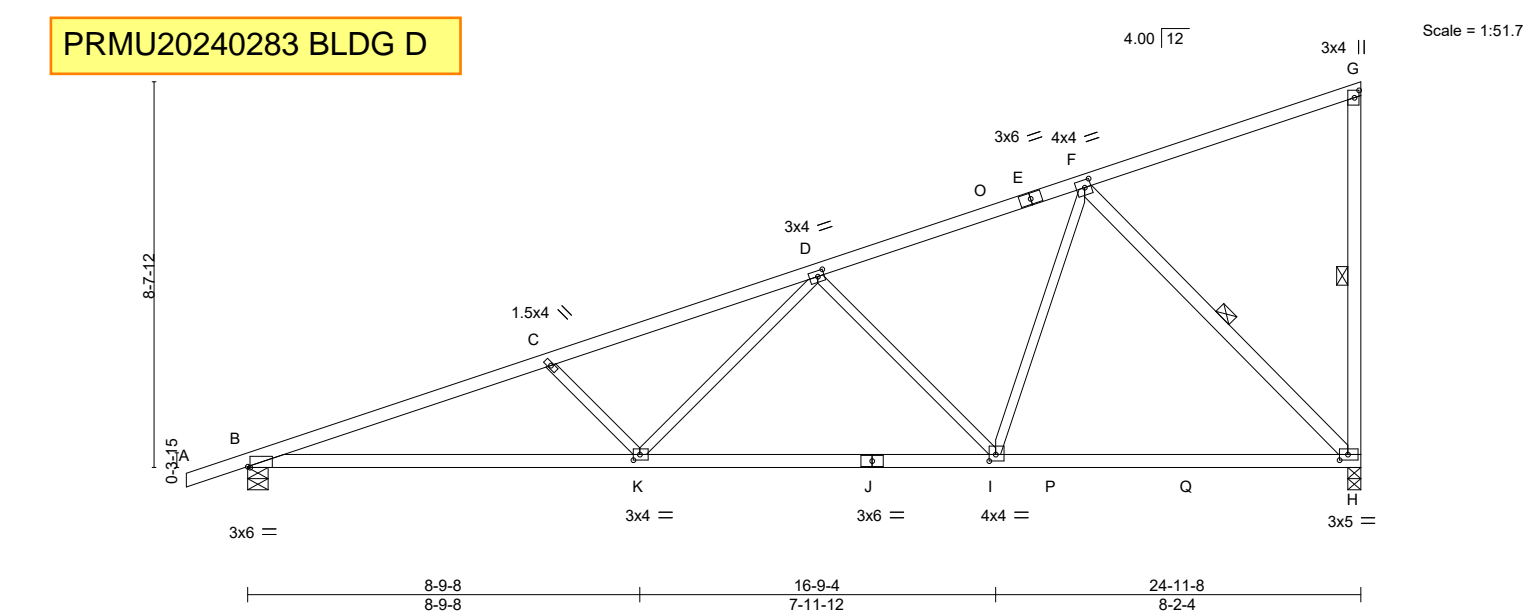
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	B1	GABLE	7	1	U1530774
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:24 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- NOTES-**
- 12) 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 12.5 ft to 24.1 ft for 170.2 plf
- 13) **PRMU20240283 BLDG D** ft end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at For edge-wise notching, provide at least one tie plate between each notch.

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:03 2024 Page 1
ID:hFyJDMxrTsEK_kgkR0vWWWzFfgc-k7TqHo1Mi0SvBG6?wmQWNSO?me?Vgw56bic9jZyeVrA
-1-4-8 6-9-9 12-9-6 18-9-3 24-11-8
1-4-8 6-9-9 5-11-13 5-11-13 6-2-5



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* B-J: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* G-H,F-H: 2x4 SPF No.2	WEBS	1 Row at midpt G-H, F-H

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

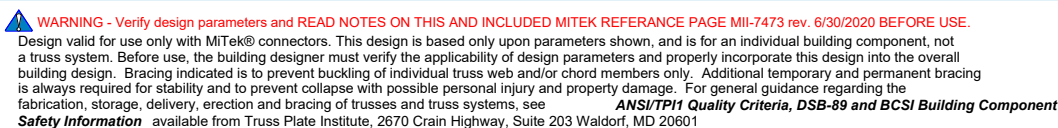
TOP CHORD	B-C=-2955/311, C-D=-2666/260, D-F=-1455/158, G-H=-283/51
BOT CHORD	B-K=-378/2775, I-K=-232/1883, H-I=-149/1036
WEBS	D-K=-53/861, D-K=-84/185, F-I=-56/980, F-H=-1470/216

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=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) TCDL: 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint H and 172 lb uplift at joint B.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



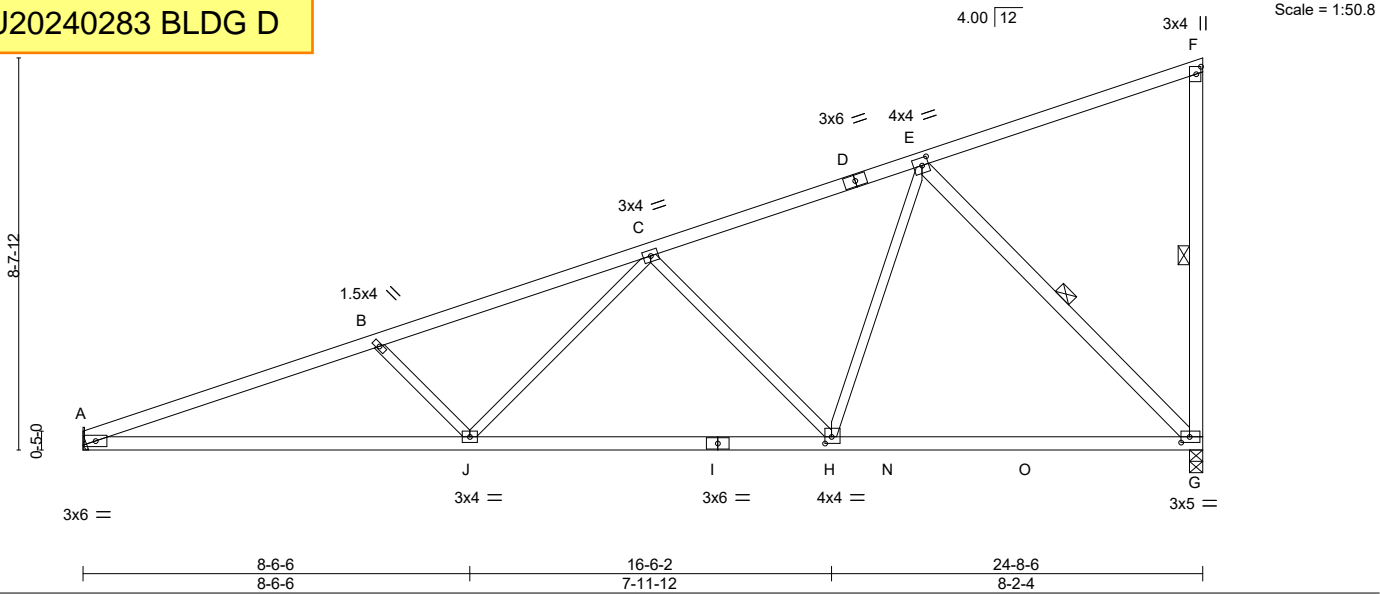
September 12, 2024



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530839
N0653A	B3	Roof Special	49	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:04 2024 Page 1
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6-6-7 12-6-4 18-6-1 24-8-6
6-6-7 5-11-13 5-11-13 6-2-5

PRMU20240283 BLDG D



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.20 G-H >999 360	MT20		197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.34 G-H >873 240				
TCDL	12.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.07 G n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.07 J-M >999 240				
BCDL	10.0							Weight: 93 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-5 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt F-G, E-G
	F-G,E-G: 2x4 SPF No.2		

REACTIONS. (size) G=0-3-8, A=Mechanical
Max Horz A=272(LC 9)
Max Uplift G=-167(LC 10), A=-125(LC 6)
Max Grav G=1390(LC 3), A=1225(LC 3)

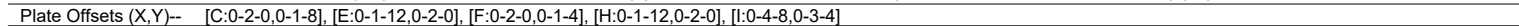
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2853/311, B-C=-2565/261, C-E=-1422/157, F-G=-281/51
BOT CHORD A-J=-373/2660, H-J=-231/1832, G-H=-104/1009
WEBS B-J=-488/159, C-J=-50/798, C-H=-827/184, E-H=-56/967, E-G=-1429/215

- 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint G and 125 lb uplift at joint A.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:04 2024 Page 1
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 6-7-6 12-3-10 18-4-12 24-8-6
 6-7-6 5-8-4 6-1-2 6-3-10



LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 *Except* A-I: 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except* F-G,C-H,E-G: 2x4 SPF No.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 2-0-11 oc purlins, except end verticals. Rigid ceiling directly applied or 2-2-0 oc bracing. 1 Row at midpt <div style="text-align: right;">F-G, C-H, E-G</div>
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

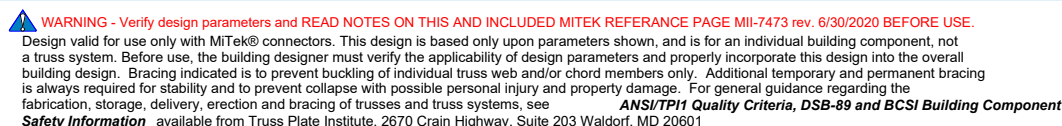
TOP CHORD	A-B=-4990/575, B-C=-3791/427, C-E=-1368/94, F-G=-286/64
BOT CHORD	A-J=-762/4729, I-J=-764/4739, H-I=-564/3595, G-H=-182/1267
WEBS	B-I=-1143/197, C-I=-178/1557, C-H=-2599/423, E-H=-63/968, E-G=-1747/249

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCDL: 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=1.0
- 3) Unbalanced snow loads have been considered for this design.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint G and 102 lb uplift at joint A.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530775
N0653A	B4	GABLE	7	1	Job Reference (optional)	

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:26 2024 Page 1

ID:hFyjDMxRTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D

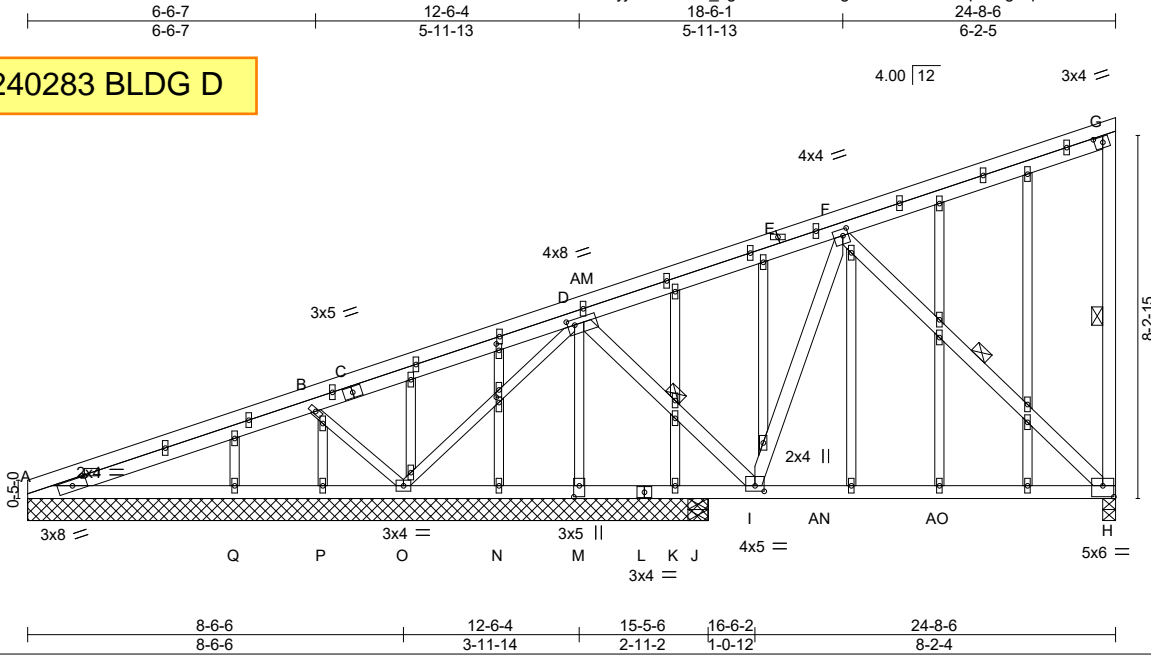


Plate Offsets (X,Y)--	[D:0-1-15,0-1-8], [F:0-1-8,0-1-12], [G:0-2-4,0-1-8], [H:0-3-0,0-3-0], [I:0-2-8,0-1-8], [M:0-3-0,0-1-8], [AD:0-1-7,0-0-12], [AE:0-1-12,0-0-12], [AK:0-0-12,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.16	H-I	>712	360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.27	H-I	>410	240		
TCDL 12.0	Rep Stress Incr	YES	WB 0.96	Horz(CT)	-0.02	H	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	0.06	O	>760	240		
BCDL 10.0									Weight: 156 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-3-2 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt G-H, D-I, F-H
B-O,D-O,D-M: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 15-5-6 except (jt=length) H=0-3-8, J=0-5-8.
(lb) - Max Horz A=315(LC 38)	
Max Uplift	All uplift 100 lb or less at joint(s) K except H=919(LC 40), A=999(LC 31), N=320(LC 31), P=447(LC 31), Q=222(LC 54), M=1455(LC 31), J=315(LC 18)
Max Grav	All reactions 250 lb or less at joint(s) K, J except H=1330(LC 27), A=1099(LC 52), N=427(LC 28), P=487(LC 52), Q=350(LC 35), M=2167(LC 28), A=370(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-B=-3149/2947, B-D=-1579/1391, D-F=-1946/1652, F-G=-1687/1587, G-H=-286/52
BOT CHORD	A-Q=-2497/2487, P-Q=-1260/1250, O-P=-547/664, N-O=-1003/917, M-N=-1702/1617, K-M=-2580/2491, J-K=-2780/2691, I-J=-2780/2691, H-I=-958/1023
WEBS	B-O=-589/250, D-O=-665/772, D-I=-1836/2119, F-I=-1378/1492, F-H=-1410/1308, D-M=-2255/1624

- 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) H=919, A=999, N=320, P=447, Q=222, M=1455, J=315, A=999.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	B4	GABLE	7	1	U1530775

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:26 2024 Page 2
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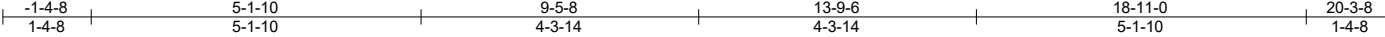
- NOTES-**
- 11) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 15'-5" for 282.7 plf
- 12) **PRMU20240283 BLDG D** and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530776
N0653A	C1	GABLE	15	1	Job Reference (optional)	

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

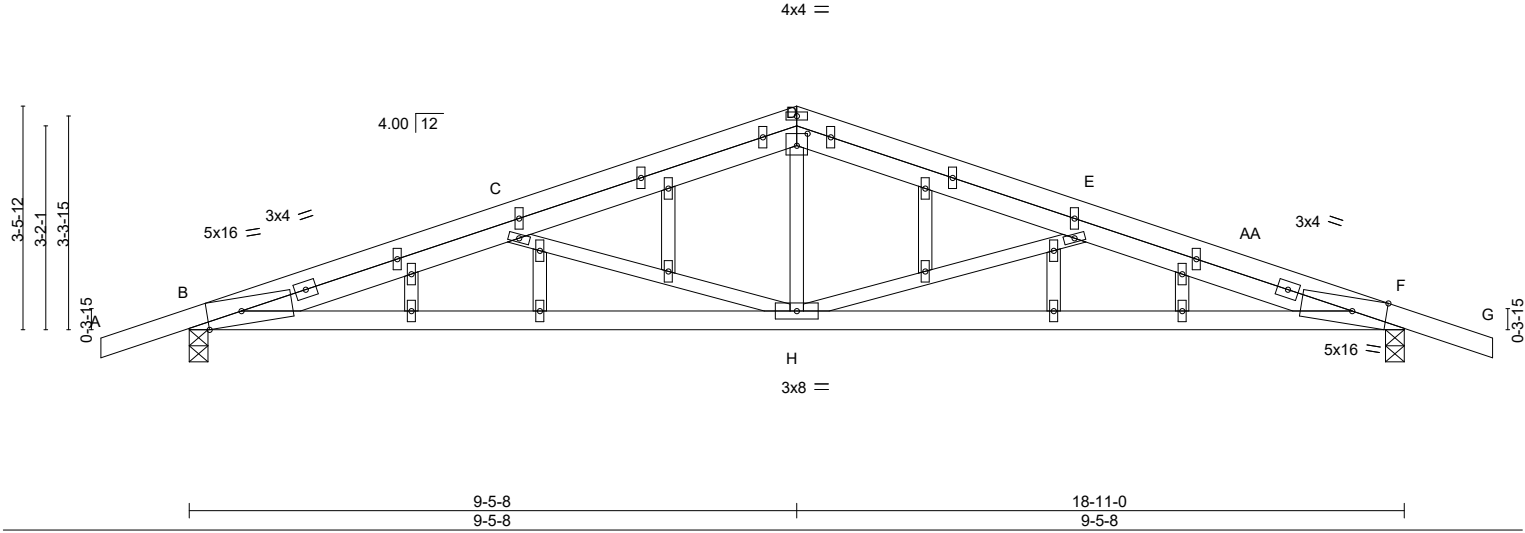
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:26 2024 Page 1

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PRMU20240283 BLDG D

Scale = 1:35.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.14 H-Z	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.33 H-W	>684	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.06 F	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.06 H-W	>999	240	Weight: 83 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-12 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		
OTHERS	2x3 SPF No.2		

REACTIONS. (size) B=0-3-8, F=0-3-8
Max Horz B=54(LC 10)
Max Uplift B=-169(LC 6), F=-137(LC 7)
Max Grav B=1105(LC 17), F=1057(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-240/1253, C-D=-1609/111, D-E=-1608/113, E-F=-2535/243
BOT CHORD B-H=-234/2275, F-H=-184/2396
WEBS D-H=0/675, E-H=-1018/188, C-H=-932/197

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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) TCCL: 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 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=169, F=137.
 - 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.



September 12,2024

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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

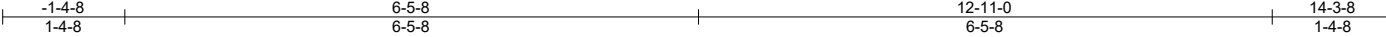


Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530777
N0653A	D1	GABLE	7	1	Job Reference (optional)	

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:27 2024 Page 1

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PRMU20240283 BLDG D

Scale = 1:25.9

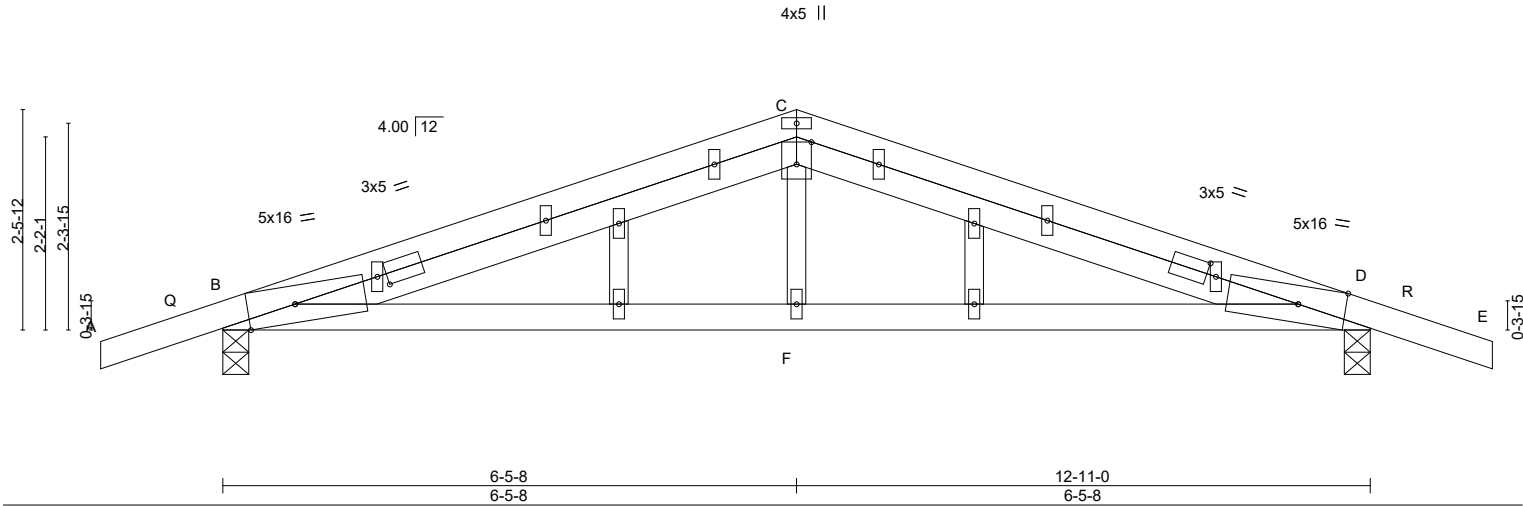


Plate Offsets (X,Y)-- [B:0-6-7,Edge], [B:1-1-0,0-1-8], [C:0-3-0,Edge], [D:1-1-0,0-1-8], [D:0-6-7,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.11 F-M >999 360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.18 F-M >864 240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02 D n/a n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.04 F-M >999 240	Weight: 50 lb	FT = 20%
BCDL	10.0								

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

REACTIONS. (size) B=0-3-8, D=0-3-8
Max Horz B=41(LC 10)
Max Uplift B=-141(LC 6), D=-110(LC 7)
Max Grav B=974(LC 17), D=822(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1260/86, C-D=-1230/91
BOT CHORD B-F=-53/1118, D-F=-53/1118
WEBS C-F=0/288

- 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) TCDL: 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 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=141, D=110.
 - 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.



September 12,2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530841
N0653A	G1	GABLE	20	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:05 2024 Page 1
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PRMU20240283 BLDG D

4x5 =

Scale = 1:28.9

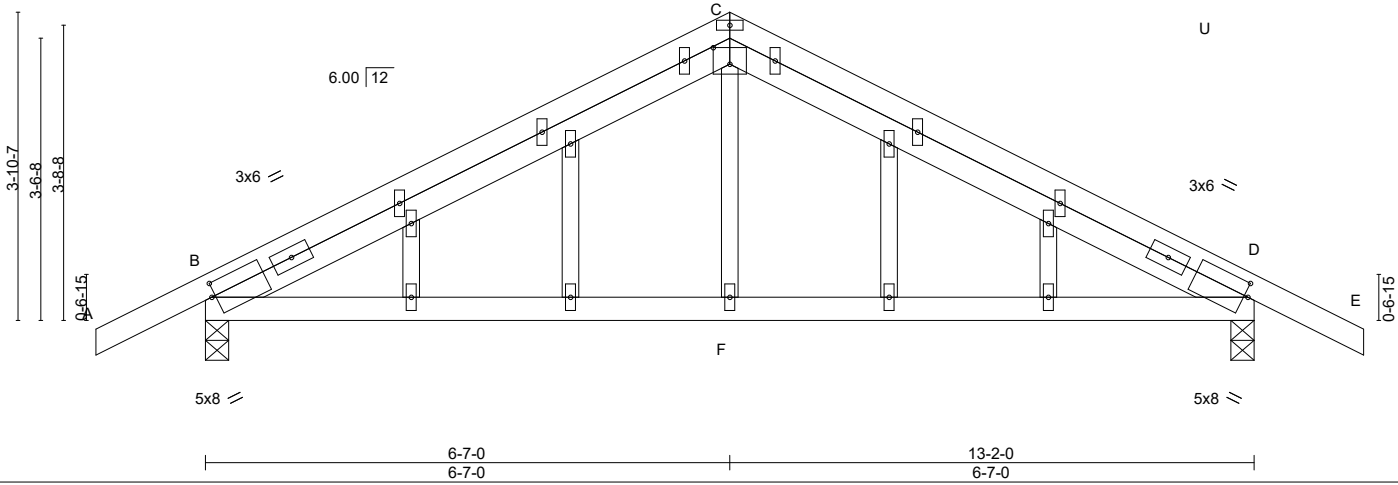


Plate Offsets (X,Y)-- [B:0-0-9,0-2-1], [C:0-2-8,0-2-8], [D:0-0-9,0-2-1]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.07 F-T >999 360	MT20	GRIP 197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.10 F-T >999 240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01 B n/a n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.03 F-Q >999 240	Weight: 59 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-14 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		
OTHERS	2x3 SPF No.2		

REACTIONS. (size) B=0-3-8, D=0-3-8
Max Horz B=52(LC 10)
Max Uplift B=-90(LC 10), D=-78(LC 11)
Max Grav B=760(LC 1), D=817(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-815/65, C-D=-877/66
BOT CHORD B-F=-15/662, D-F=-15/662
WEBS C-F=0/265

- 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 90 lb uplift at joint B and 78 lb uplift at joint D.
 - 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.



September 12,2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530778
N0653A	G2	Common	14	1	Job Reference (optional)	

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:27 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



PRMU20240283 BLDG D

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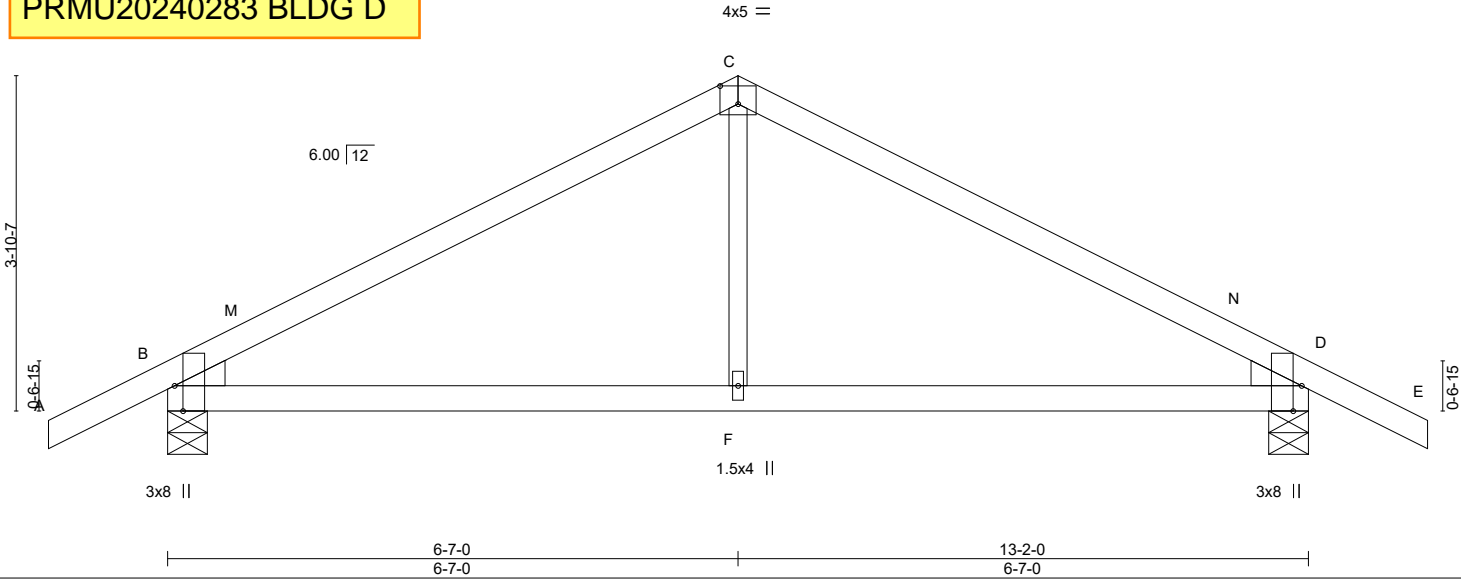


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [C:0-2-8,0-2-8], [D:0-3-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.11 F-I >999 360	MT20	GRIP 197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.15 F-I >999 240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02 B n/a n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.04 F-I >999 240	Weight: 40 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		
WEDGE			
Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2			

REACTIONS. (size) B=0-5-8, D=0-5-8
Max Horz B=-52(LC 15)
Max Uplift B=-75(LC 10), D=-75(LC 11)
Max Grav B=817(LC 17), D=817(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-870/71, C-D=-870/71
BOT CHORD B-F=-14/647, D-F=-14/647
WEBS C-F=0/289

- 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) TCDL: 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.

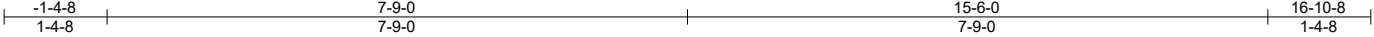


September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530842
N0653A	G3	GABLE	2	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:05 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-gWaaIU2cEdidQaGO1AS_StTSeRts8?BO205FoSyVr8



PRMU20240283 BLDG D

4x4 =

Scale = 1:30.8

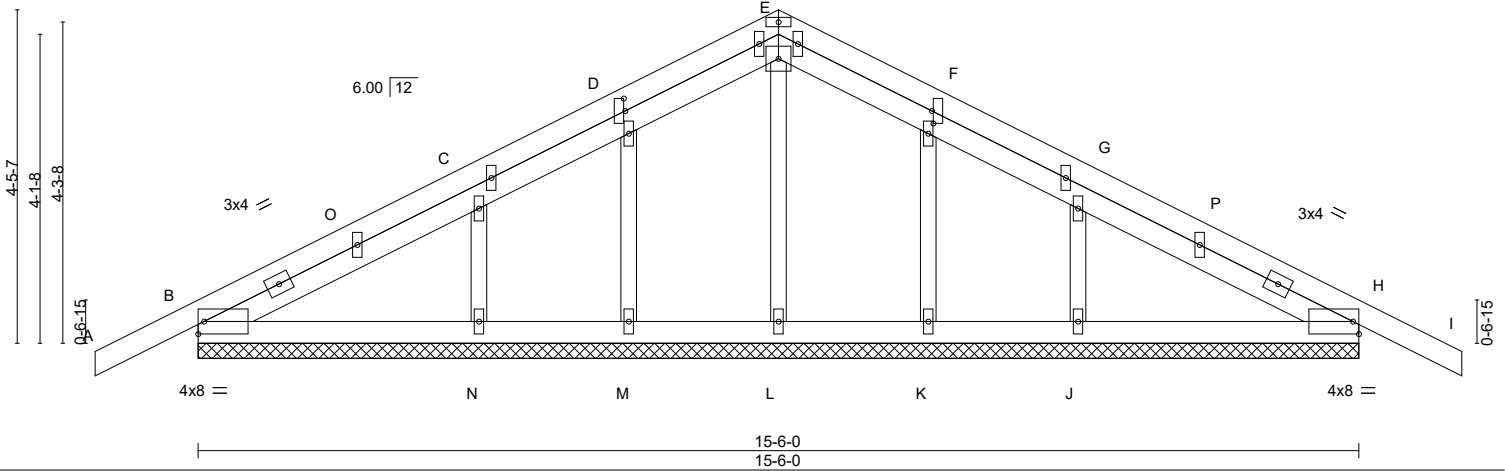


Plate Offsets (X,Y)-- [D:0-2-0,0-0-4], [F:0-2-0,0-0-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00		
TCDL	12.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S					
BCDL	10.0							Weight: 70 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

REACTIONS.	
All bearings 15-6-0.	
(lb) - Max Horz B=-55(LC 11)	
Max Uplift All uplift 100 lb or less at joint(s) B, H, M, N, K, J	
Max Grav All reactions 250 lb or less at joint(s) L, M, K except B=289(LC 17), H=289(LC 18), N=401(LC 17), J=400(LC 18)	

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
WEBS C-N=-321/89, G-J=-320/90	

- 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 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) B, H, M, N, K, J.
 - 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 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.

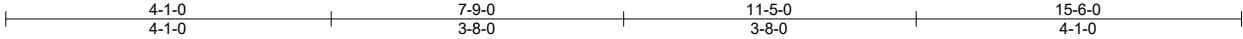


September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530843
N0653A	G4	Common Girder	2	2	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:06 2024 Page 1
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PRMU20240283 BLDG D

5x6 ||

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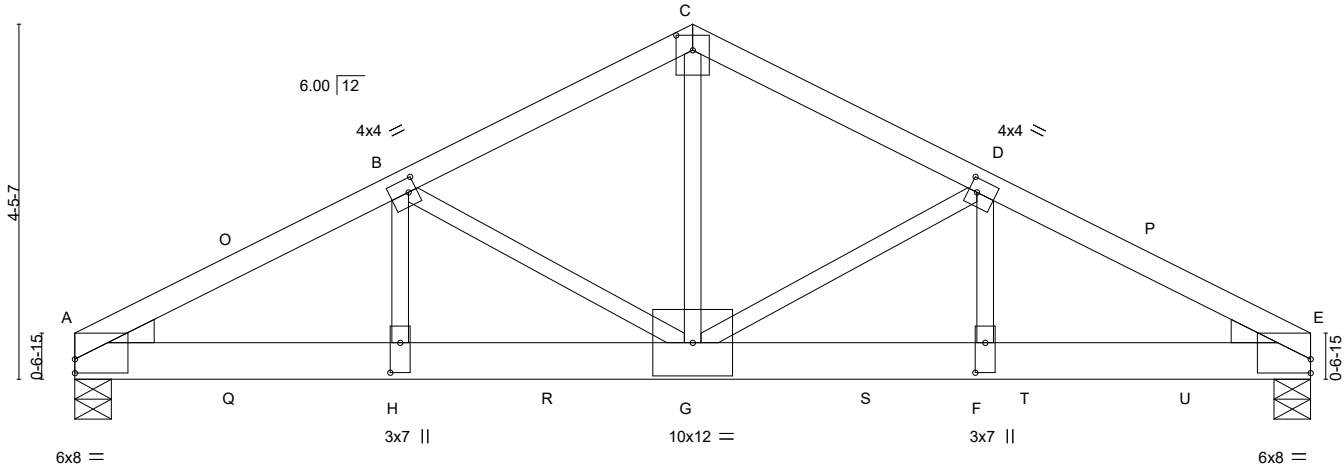


Plate Offsets (X,Y)--	[A:0-0-0,0-2-1], [B:0-1-4,0-2-0], [C:0-2-4,0-2-8], [D:0-1-4,0-2-0], [E:Edge,0-2-1], [F:0-4-8,0-1-8], [H:0-4-8,0-1-8]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	Plate Grip DOL 1.15		TC 0.56	Vert(LL) -0.11	G-H	>999	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15		BC 0.55	Vert(CT) -0.20	G-H	>917	240		
BCLL 0.0 *	Rep Stress Incr NO		WB 1.00	Horz(CT) 0.04	E	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-MS	Wind(LL) 0.06	G-H	>999	240	Weight: 124 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.
BOT CHORD 2x6 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) A=0-5-8, E=0-5-8
Max Horz A=51(LC 29)
Max Uplift A=-614(LC 10), E=-649(LC 11)
Max Grav A=5531(LC 3), E=5841(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-9488/1055, B-C=-6914/792, C-D=-6916/792, D-E=-9448/1051
BOT CHORD A-H=-953/8416, G-H=-953/8416, F-G=-900/8388, E-F=-900/8388
WEBS C-G=-638/5829, D-G=-2638/347, D-F=-222/2235, B-G=-2670/350, B-H=-228/2291

- 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 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 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; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left 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=1.0; 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=614, E=649.
 - 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) 1428 lb down and 174 lb up at 2-0-4, 1428 lb down and 174 lb up at 4-0-4, 1428 lb down and 174 lb up at 6-0-4, 1428 lb down and 174 lb up at 8-0-4, 1428 lb down and 174 lb up at 10-0-4, and 1428 lb down and 174 lb up at 12-0-4, and 1428 lb down and 174 lb up at 14-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
Continued on page 2



September 12, 2024

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	G4	Common Girder	2	2	U1530843

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:06 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWWzFIgc-8i8yvq3F?xqU2krabuzD?50Y?r6ktDIYHgrpKuyeVr7

LOAD CASE(S) Standard

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

U PRMU20240283 BLDG D

Concentrated Loads (lb)

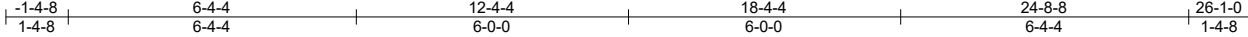
Vert: G=-1387(B) H=-1387(B) Q=-1387(B) R=-1387(B) S=-1387(B) T=-1387(B) U=-1387(B)

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530779
N0653A	H1	GABLE	7	1	Job Reference (optional)	

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:29 2024 Page 1

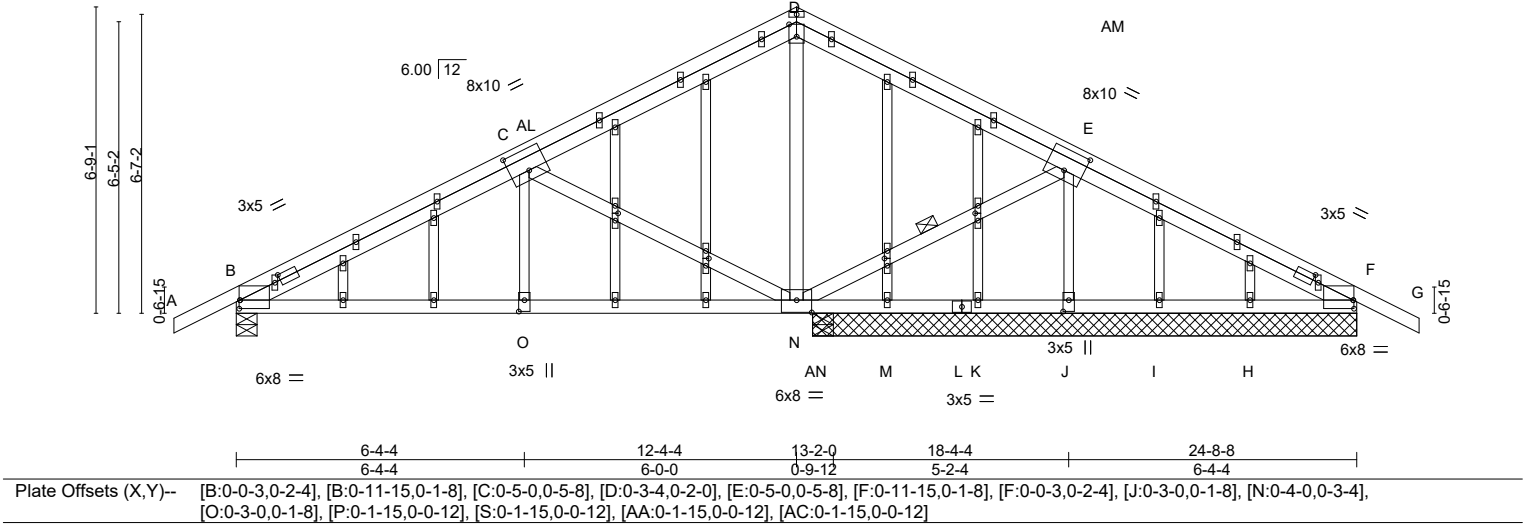
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PRMU20240283 BLDG D

4x5 ||

Scale = 1:50.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.08	N-O	>999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.09	O-AH	>999		
TCDL 12.0	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.04	J	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	0.11	O-AH	>999	Weight: 139 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*	TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins.
B-D,D-F: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-4-1 oc bracing.
BOT CHORD 2x4 SPF 2100F 1.8E	WEBS 1 Row at midpt E-N
WEBS 2x4 SPF No.2 *Except*	
E-J,C-O: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 12-0-0 except (jt=length) B=0-5-8.
(lb) - Max Horz B=153(LC 49)	
Max Uplift	All uplift 100 lb or less at joint(s) M except B=957(LC 40), N=1988(LC 40), J=1528(LC 43), I=111(LC 55), H=469(LC 42), F=1647(LC 43)
Max Grav	All reactions 250 lb or less at joint(s) M, K, I except B=1208(LC 29), N=2470(LC 29), N=1088(LC 1), J=1567(LC 38), H=533(LC 39), F=1690(LC 52), F=294(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	B-C=-2014/1784, C-D=-1270/1422, D-E=-2878/2936, E-F=-3031/3017
BOT CHORD	B-O=-1700/1900, N-O=-1700/1900, M-N=-3202/3239, K-M=-2389/2423, J-K=-1401/1438, I-J=-560/597, H-I=-1549/1585, F-H=-2350/2387
WEBS	D-N=-1405/1227, E-N=-1655/1672, E-J=-1556/1573, C-N=-858/367, C-O=-77/261

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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) TCCL: 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) M except (jt=lb) B=957, N=1988, J=1528, I=111, H=469, F=1647, F=1647.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

Continued on page 2

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September 12, 2024

240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	H1	GABLE	7	1	U1530779

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

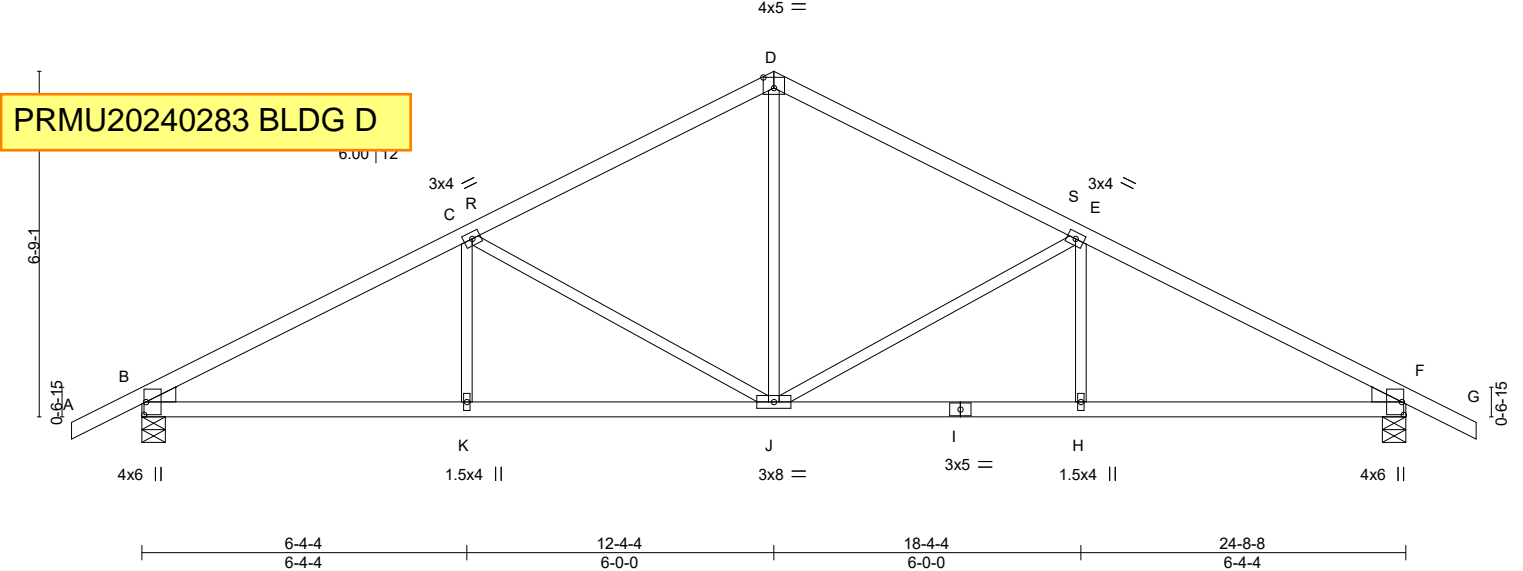
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:29 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- NOTES-**
- 12) 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 12.8.8 to 24.8.8 for 404.2 plf
- 13) PRMU20240283 BLDG D ft end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530780
N0653A	H2	Common	7	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:29 2024 Page 1
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Scale = 1:45.0



LOADING (psf)									
TCLL	25.0	SPACING-		2-0-0	CSI.		DEFL.	in (loc)	l/defl
(Roof Snow=25.0)		Plate Grip DOL	1.15		TC	0.81	Vert(LL)	-0.09	J-K >999
TCDL	12.0	Lumber DOL	1.15		BC	0.62	Vert(CT)	-0.17	J-K >999
BCLL	0.0 *	Rep Stress Incr	YES		WB	0.83	Horz(CT)	0.06	F n/a
BCDL	10.0	Code IBC2018/TPI2014			Matrix-MS		Wind(LL)	0.04	H-J >999
					PLATES		GRIP		
					MT20		197/144		
					Weight: 86 lb		FT = 20%		

LUMBER-			BRACING-	
TOP CHORD	2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2			
WEDGE				
Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2				

REACTIONS. (size) B=0-5-8, F=0-5-8
Max Horz B=-90(LC 11)
Max Uplift B=-119(LC 10), F=-119(LC 11)
Max Grav B=1287(LC 17), F=1287(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1988/155, C-D=-1373/137, D-E=-1373/137, E-F=-1988/155
BOT CHORD B-K=-152/1701, J-K=-152/1701, H-J=-62/1701, F-H=-62/1701
WEBS D-J=-23/716, E-J=-705/149, C-J=-705/149

- 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=119, F=119.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	H3	Common Girder	7	2	

U1530781

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:31 2024 Page 1

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PRMU20240283 BLDG D

6x8 II

Scale = 1:47.3

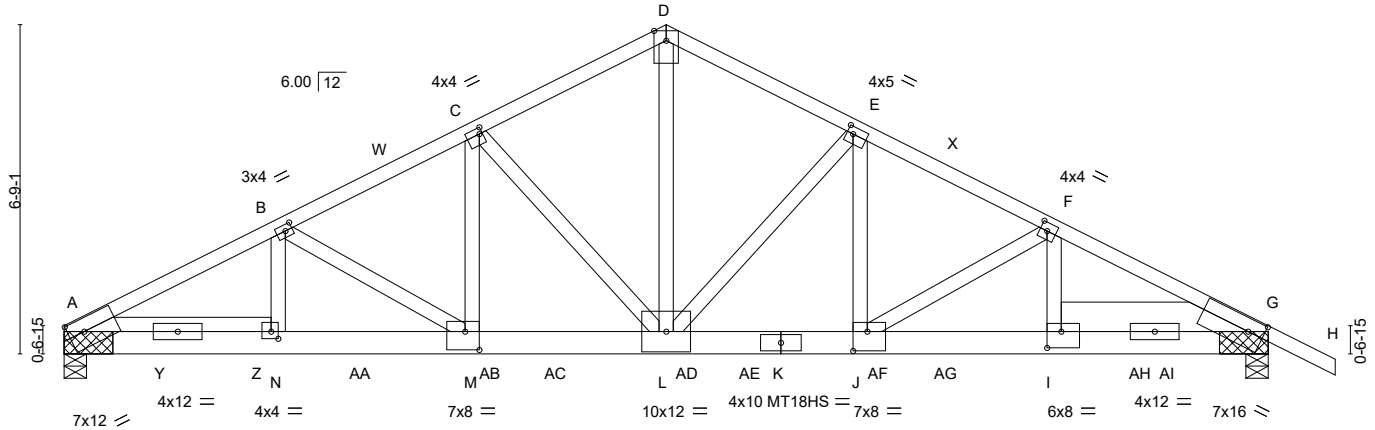


Plate Offsets (X,Y)--	[A:0-3-13,0-3-2], [B:0-1-12,0-1-8], [C:0-0-12,0-1-8], [E:0-1-8,0-1-12], [F:0-1-12,0-2-0], [G:0-3-13,0-3-2], [I:0-3-8,0-4-0], [J:0-3-8,0-4-12], [M:0-3-8,0-4-8], [N:0-1-12,0-1-12]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.93	Vert(LL)	-0.21	L-M	>999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.63	Vert(CT)	-0.39	L-M	>753	MT18HS	220/195
TCDL 12.0	Lumber DOL 1.15	WB 0.97	Horz(CT)	0.08	G	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Wind(LL)	0.11	L-M	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 302 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
D-H: 2x4 SPF 2100F 1.8E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 3-10-0, Right 2x8 SPF 1950F 1.7E 3-10-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) A=(0-5-8 + bearing block) (req. 0-6-3), G=(0-5-8 + bearing block) (req. 0-6-13)
Max Horz A=-100(LC 15)
Max Uplift A=-865(LC 10), G=-971(LC 11)
Max Grav A=7891(LC 3), G=8683(LC 4)

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

TOP CHORD A-B=-13476/1480, B-C=-11809/1305, C-D=-9158/1041, D-E=-9156/1042, E-F=-11891/1312, F-G=-14169/1551
BOT CHORD A-N=-987/8499, M-N=-1349/11987, L-M=-1139/10537, J-L=-1079/10604, I-J=-1326/12642, G-I=-855/8046
WEBS D-L=-861/7872, E-L=-3721/471, E-J=-381/3627, F-J=-2380/315, F-I=-223/2040, C-L=-3621/460, C-M=-368/3496, B-M=-1695/245, B-N=-156/1470

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 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 2x6 DF 2400F 2.0E bearing block 12" long at jt. A attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.2.
- 2x6 DF 2400F 2.0E bearing block 12" long at jt. G attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.2.
- 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
- 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 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

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



September 12, 2024



240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	H3	Common Girder	7	2	U1530781

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:31 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- NOTES-**
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=865, G=971.
 - 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1205 lb down and 145 lb up at 2-0-4, 1205 lb down and 145 lb up at 4-0-4, 1205 lb down and 145 lb up at 6-0-4, 1205 lb down and 145 lb up at 8-0-4, 1205 lb down and 145 lb up at 10-0-4, 1205 lb down and 145 lb up at 12-0-4, 1205 lb down and 145 lb up at 14-0-4, 1205 lb down and 145 lb up at 16-0-4, 1205 lb down and 145 lb up at 18-0-4, 1205 lb down and 145 lb up at 20-0-4, and 1205 lb down and 145 lb up at 22-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

PRMU20240283 BLDG D

- LOADS**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: A-D=-74, D-H=-74, O-S=-20
 - Concentrated Loads (lb)
 - Vert: I=-1175(F) Y=-1175(F) Z=-1175(F) AA=-1175(F) AB=-1175(F) AC=-1175(F) AD=-1175(F) AE=-1175(F) AF=-1175(F) AG=-1175(F) AH=-1175(F) AI=-1175(F)

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	K1	GABLE	13	2	

U1530844

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:07 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-cvIL6A4tmEyLguQm9bUSXIYiWfQXcjzhWkaMsKyeVr6

4-7-2 4-7-2 4-2-3 12-4-4 13-2-0 3-6-15 0-9-12

PRMU20240283 BLDG D

3x8 =
5x10 ||
2x4 =

Scale = 1:46.3

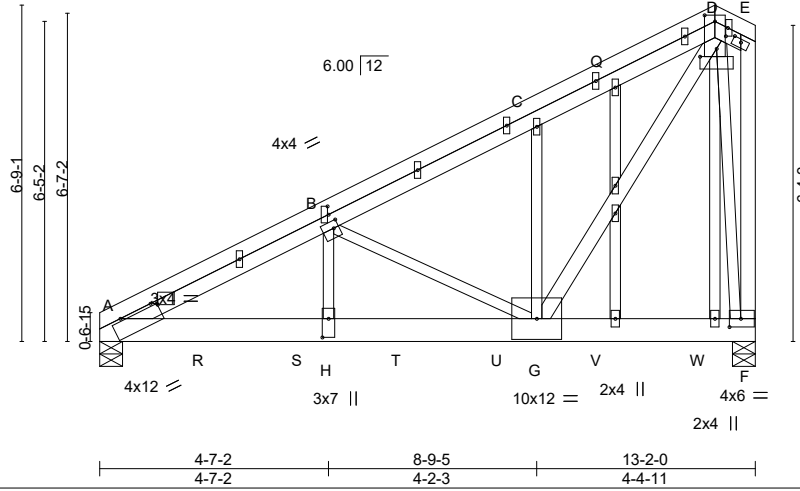


Plate Offsets (X,Y)-- [A:0-9-8,0-0-10], [B:0-1-4,0-1-12], [B:0-2-0,0-0-4], [D:0-4-0,0-1-15], [D:0-1-8,0-2-8], [D:0-2-0,0-0-8], [E:0-2-0,0-0-12], [F:0-2-12,0-2-0], [H:0-4-8,0-1-8], [O:0-1-12,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.58	Vert(LL)	-0.10	G-H	>999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.58	Vert(CT)	-0.17	G-H	>878		
TCDL 12.0	Lumber DOL 1.15	WB 0.81	Horz(CT)	0.02	F	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Wind(LL)	0.05	G-H	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 175 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) A=0-5-8, F=0-5-8
Max Horz A=176(LC 28)
Max Uplift A=532(LC 10), F=630(LC 10)
Max Grav A=4676(LC 3), F=5224(LC 3)

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

TOP CHORD A-B=-7751/879, B-C=-4320/502, C-D=-4340/566, E-F=-326/86
BOT CHORD A-H=-861/7096, G-H=-862/7105, F-G=-99/451
WEBS B-H=-270/2565, B-G=-3686/477, C-G=-331/119, D-G=-833/6615, D-F=-3640/457

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: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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); ls=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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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) A=532, F=630.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

Continued on page 2

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



240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	K1	GABLE	13	2	U1530844

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:07 2024 Page 2
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- NOTES-**
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1476 lb down and 180 lb up at 2-0-4, 1476 lb down and 180 lb up at 4-0-4, 1476 lb down and 180 lb up at 6-0-4, 1476 lb down and 180 lb up at 8-0-4, and 1476 lb down and 180 lb up at 10-0-4, and 1476 lb down and 180 lb up at 12-0-4. Connection device(s) is the responsibility of others.
- 14) **PRMU20240283 BLDG D** end and 0-0-0 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.
- 15) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-D=-74, D-E=-74, F-N=-20

Concentrated Loads (lb)

Vert: R=-1434(F) S=-1434(F) T=-1434(F) U=-1434(F) V=-1434(F) W=-1434(F)

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530845
N0653A	K2	GABLE	13	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:08 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-45GjKV5VXY4CH1?zjJ0h4W5tDfnILKvrk_KvPmyeVr5

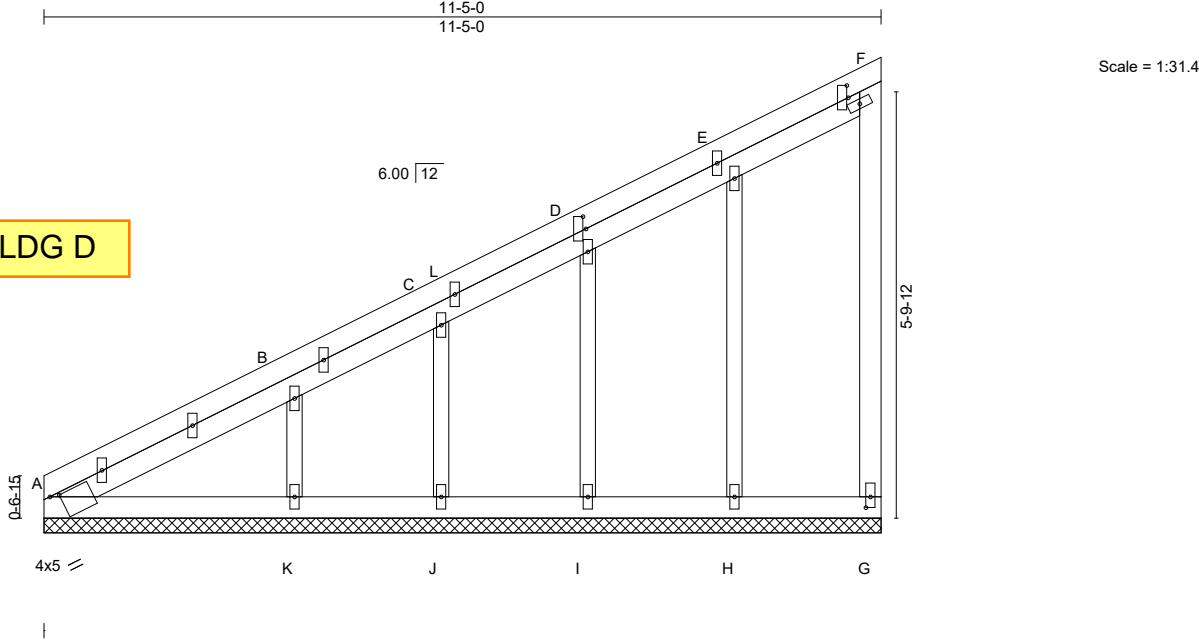


Plate Offsets (X,Y)-- [A:0-1-8,0-0-7], [D:0-2-0,0-0-8], [F:0-2-0,0-0-4], [G:0-1-12,0-0-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	in (loc)	l/defl	MT20	GRIP
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.55	n/a	n/a		197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.13	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S		-0.03	G		
BCDL	10.0							Weight: 58 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-9 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 3-6-11 oc bracing.
WEBS	2x4 SPF No.2		
OTHERS	2x3 SPF No.2		

REACTIONS. All bearings 11-5-0.
(lb) - Max Horz A=172(LC 34)
Max Uplift All uplift 100 lb or less at joint(s) G, H, I, J, K except A=1292(LC 31)
Max Grav All reactions 250 lb or less at joint(s) G, J except A=1405(LC 38), H=275(LC 16), I=276(LC 16), K=318(LC 1)

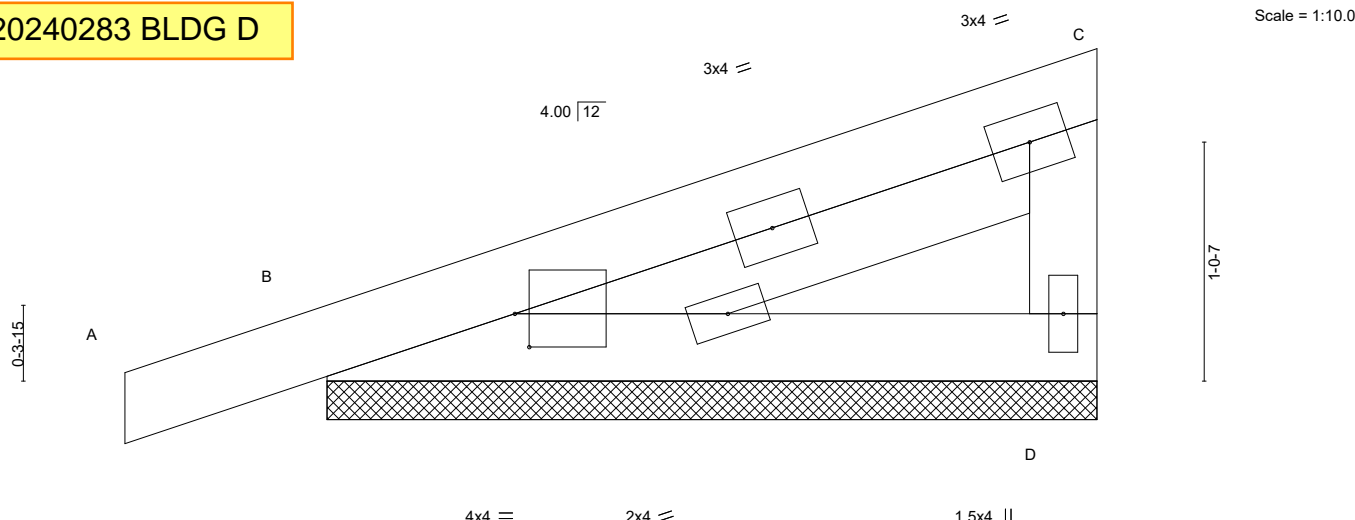
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3139/2996, B-C=-2237/2131, C-D=-1686/1604, D-E=-1140/1078, E-F=-587/549
BOT CHORD A-K=-2740/2746, J-K=-1938/1925, I-J=-1459/1445, H-I=-979/965, G-H=-499/485

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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) TCCL: 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 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) G, H, I, J, K except (jt=lb) A=1292.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 11-5-0 for 240.0 plf.
 - 13) No notches allowed in overhang and 0 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.



September 12,2024

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:31 2024 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) D=3-4-0, B=3-4-0
 Max Horz B=40(LC 7)
 Max Uplift D=-19(LC 10), B=-48(LC 6)
 Max Grav D=183(LC 17), B=297(LC 17)

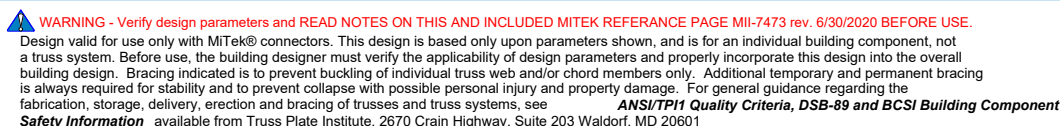
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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) D, B.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	L2	Monopitch	42	1	

U1530783

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:32 2024 Page 1

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Job Reference (optional)

-0-10-8
0-10-8
3-4-0
3-4-0

Scale = 1:10.0

PRMU20240283 BLDG D

3x4 =

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.17	Vert(LL)	-0.01	D-G	>999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.16	Vert(CT)	-0.02	D-G	>999		
TCDL 12.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	B	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.00	D-G	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 9 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 3-4-0 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=45(LC 6)
Max Uplift C=-28(LC 10), B=-46(LC 6)
Max Grav C=132(LC 17), B=302(LC 17), D=59(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.



September 12, 2024

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

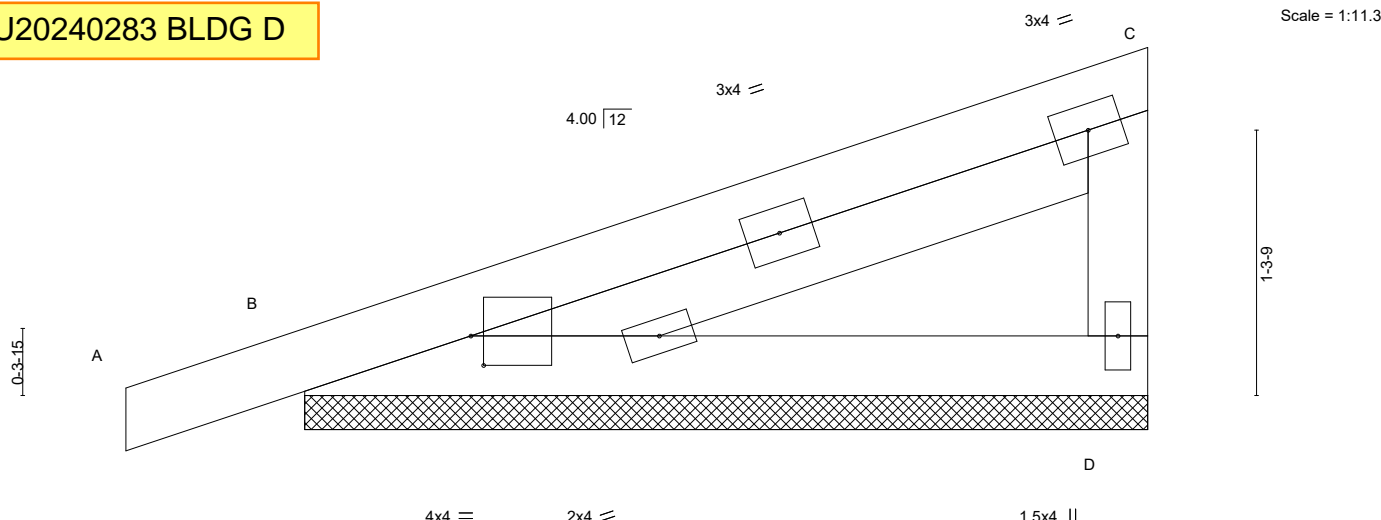
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



240 Stirling Crescent
Bradford, ON, L3Z 4L5

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:32 2024 Page 1
ID:hFyJDmXrTsEK_kgkR0vWWVzFgC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) D=4-1-8, B=4-1-8
 Max Horz B=49(LC 7)
 Max Uplift D=-25(LC 10), B=-52(LC 6)
 Max Grav D=238(LC 17), B=350(LC 17)

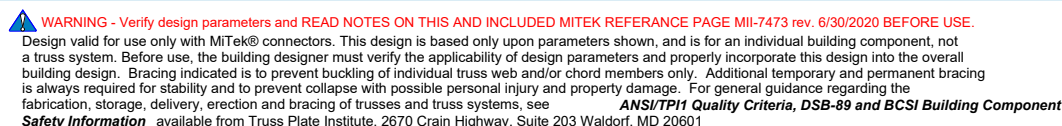
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

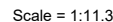
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=4.2psf; BCdL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind 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) TCdL: 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) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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) D, B.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1



September 12, 2024



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:33 2024 Page 1
ID:hFyJDMxrTsEK_kgkR0vWWWzFJgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?

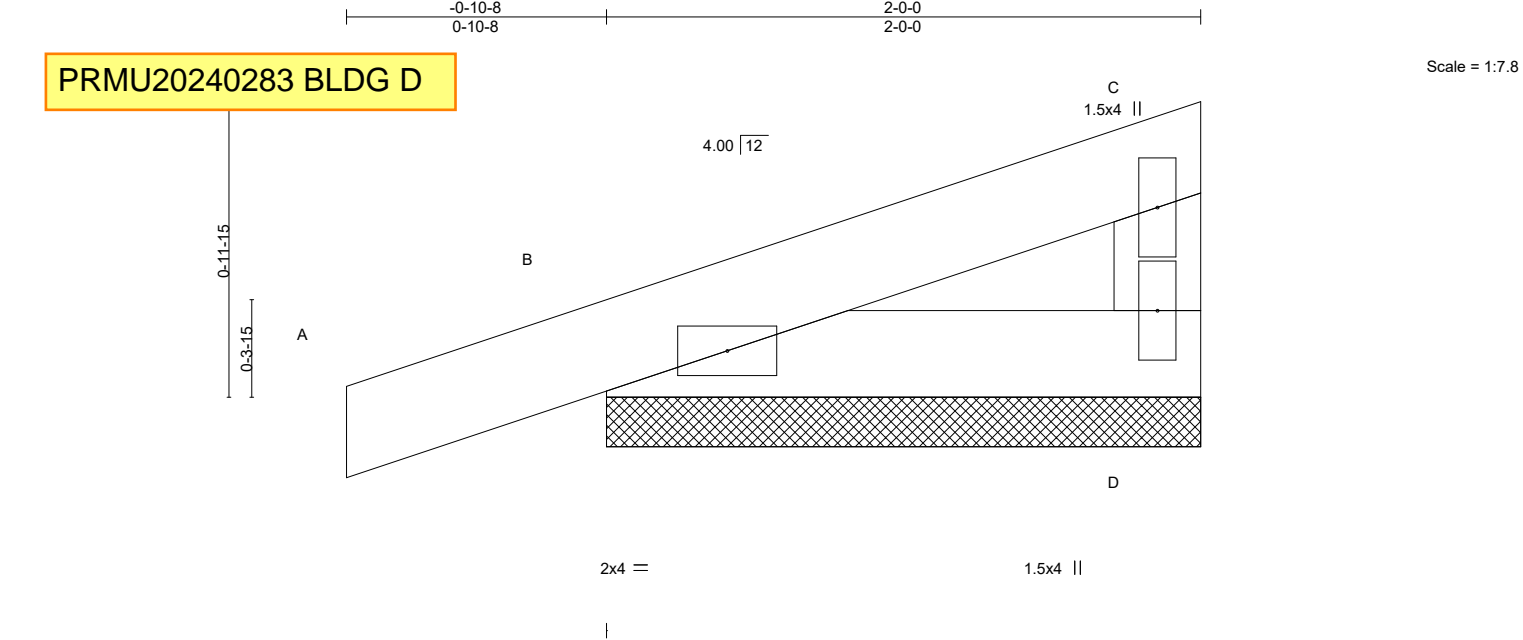


- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TC LL: ASCE 7-16; Pf=25.0 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.



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	L5	Monopitch Supported Gable	2	1	U1530786
Job Reference (optional)					

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:33 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f



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 0.09	Vert(LL)	0.00	A	n/r	120	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	A	n/r	90	
TCDL 12.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	D	n/a	n/a	
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						
BCDL 10.0									
Weight: 6 lb									FT = 20%

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

REACTIONS.	(size) D=2-0-0, B=2-0-0
Max Horz	B=26(LC 7)
Max Uplift	D=-9(LC 10), B=-45(LC 6)
Max Grav	D=89(LC 17), B=214(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) 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) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 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) D, B.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

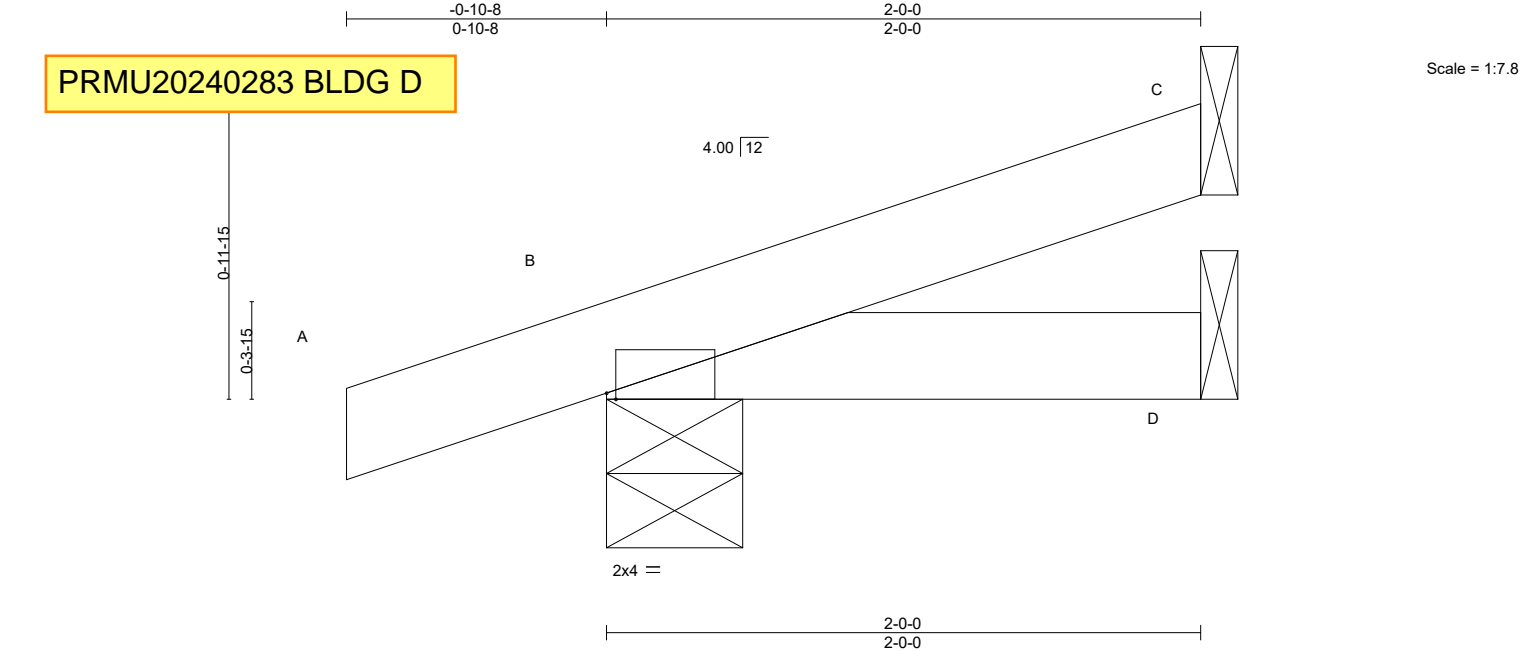


September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	L6	Monopitch	9	1	
					U1530787
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:34 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00 G >999 360	MT20		197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01 G >999 240				
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 B n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP		Wind(LL)	0.00 G >999 240				
BCDL	10.0							Weight: 6 lb		FT = 20%	

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

REACTIONS. (size) B=0-5-8, D=Mechanical
Max Horz B=30(LC 6)
Max Uplift B=42(LC 6), D=-12(LC 7)
Max Grav B=222(LC 17), D=104(LC 16)

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, D.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530846
N0653A	M1	Monopitch	44	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:09 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-YHq5Xr57HrC3vBa9G0Xwcje5G36R4jK_ze3TxDyeVr4

11-2-6 16-1-0 4-8-2 4-10-10

PRMU20240283 BLDG D

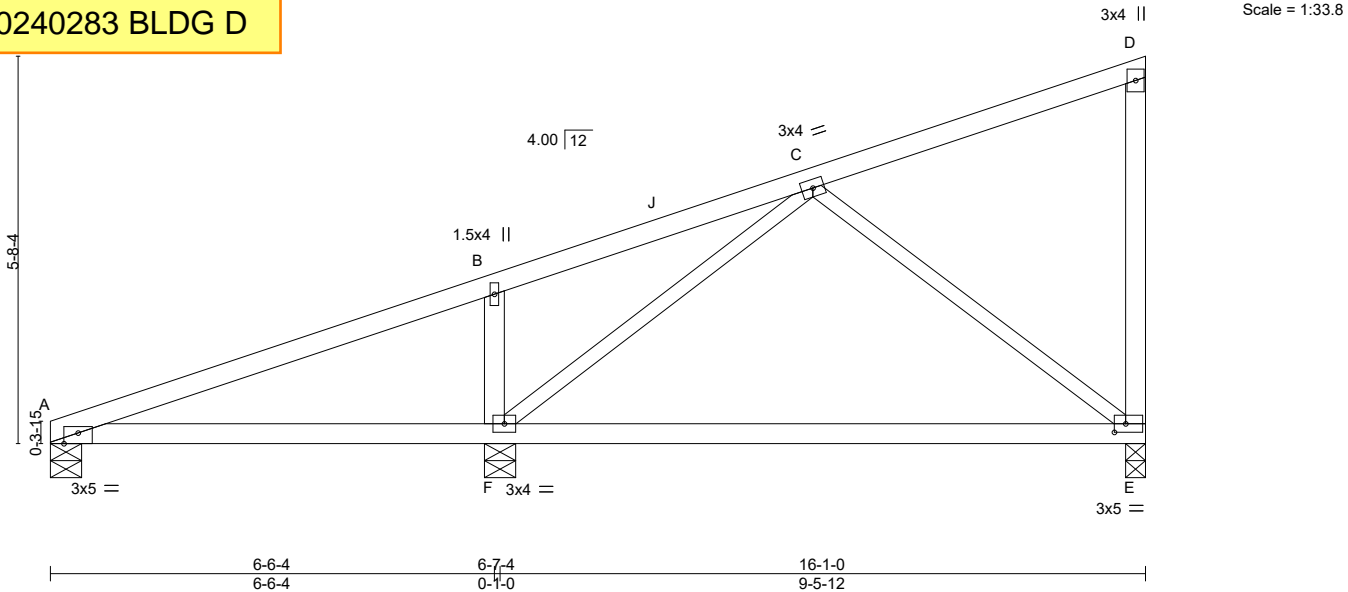


Plate Offsets (X,Y)-- [A:0-2-8,Edge], [E:0-2-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	2-0-0		TC	0.43	in (loc)	l/defl	L/d	GRIP
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.62	Vert(LL)	-0.21 E-F	>545	197/144
TCDL	12.0	Lumber DOL	1.15	WB	0.37	Vert(CT)	-0.40 E-F	>283	
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-MS		Horz(CT)	0.01 E	n/a	
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.04 F-I	>999	
									Weight: 55 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.
WEBS	2x4 SPF No.2 *Except*		
	C-F,C-E: 2x3 SPF No.2		

REACTIONS. (size) A=0-5-8, F=0-5-8, E=0-3-8
Max Horz A=176(LC 9)
Max Uplift A=-27(LC 6), F=-92(LC 10), E=-70(LC 10)
Max Grav A=266(LC 16), F=896(LC 16), E=550(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD E-F=-89/343
WEBS B-F=-447/147, C-F=-345/39, C-E=-411/116

- 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
 - 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 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) A, F, E.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530847
N0653A	M2	Monopitch	44	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:09 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-YHq5Xr57HrC3vBa9G0Xwcje5G3274bb_ze3TxDyeVr4

6-6-4 6-6-4 11-2-6 4-8-2 16-1-0 4-10-10

PRMU20240283 BLDG D

Scale = 1:34.6

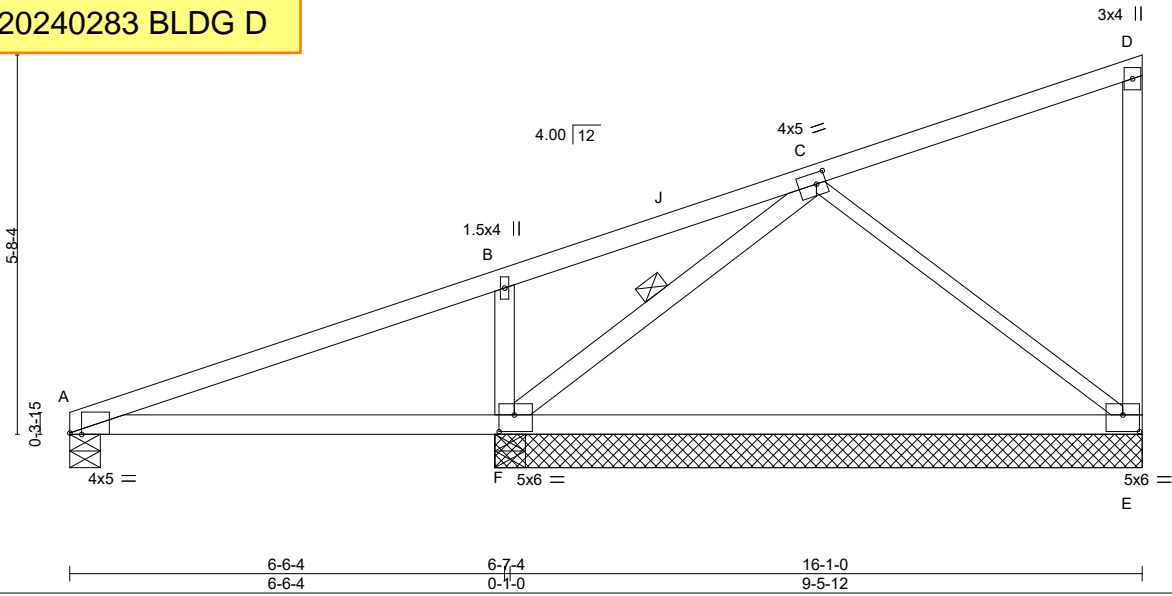


Plate Offsets (X,Y)--	[A:0-2-2,Edge], [C:0-1-12,0-2-0], [E:0-3-0,0-3-0], [F:0-2-12,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.21	E-F	>545	360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.40	E-F	>283	240		
TCDL 12.0	Rep Stress Incr	YES	WB 0.87	Horz(CT)	-0.04	E	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	0.06	F-I	>999	240	Weight: 57 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt C-F
C-E: 2x3 SPF No.2	

REACTIONS.	All bearings 0-5-8 except (jt=length) E=9-8-8.
(lb) - Max Horz	A=257(LC 38)
Max Uplift	All uplift 100 lb or less at joint(s) except A=-550(LC 31), F=-1377(LC 31), E=-601(LC 40)
Max Grav	All reactions 250 lb or less at joint(s) except A=635(LC 52), F=1747(LC 28), F=836(LC 1), E=852(LC 27)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-B=-1541/1392, B-C=-1250/1232, C-D=-1290/1209
BOT CHORD	A-F=-1548/1488, E-F=-3159/3153
WEBS	B-F=-446/147, C-F=-2137/2094, C-E=-966/974

- 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 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 550 lb uplift at joint A, 1377 lb uplift at joint F and 601 lb uplift at joint E.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 8) 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 6-4-8 to 16-1-0 for 397.6 plf.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530848
N0653A	M3	Monopitch	44	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:10 2024 Page 1

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PRMU20240283 BLDG D

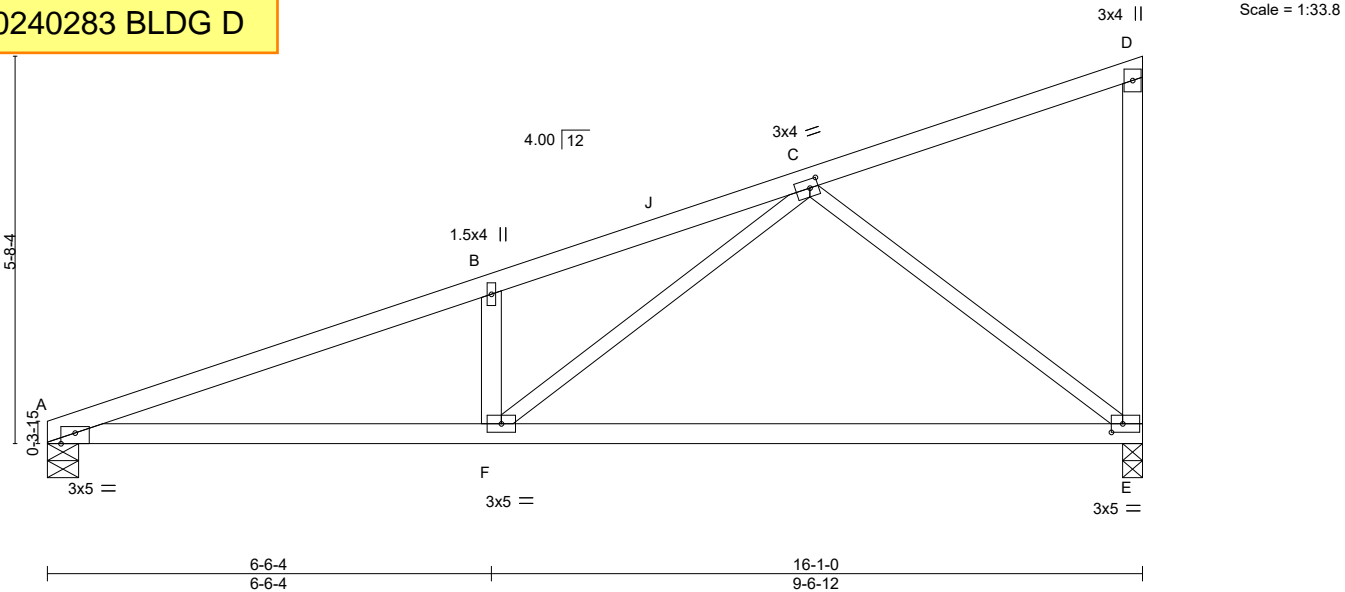


Plate Offsets (X,Y)-- [A:0-2-8,Edge], [C:0-1-8,0-1-8], [E:0-2-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.23 E-F	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.46 E-F		
TCDL	12.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03 E		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.06 F-I	Weight: 55 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	C-F,C-E: 2x3 SPF No.2		

REACTIONS. (size) A=0-5-8, E=0-3-8
Max Horz A=176(LC 9)
Max Uplift A=-81(LC 6), E=-108(LC 10)
Max Grav A=795(LC 16), E=916(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1739/147, B-C=-1752/205
BOT CHORD A-F=-176/1607, E-F=-96/806
WEBS B-F=-423/145, C-F=-103/1029, C-E=-1000/176

- 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 81 lb uplift at joint A and 108 lb uplift at joint E.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530849
N0653A	M4	MONOPITCH	4	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:10 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-1UOTIB6I29KvXL8Lqk299xADHSPAp468Clp0TfyeVr3
5-10-11 5-10-11 11-1-15 5-3-4 16-3-0 5-1-1

PRMU20240283 BLDG D

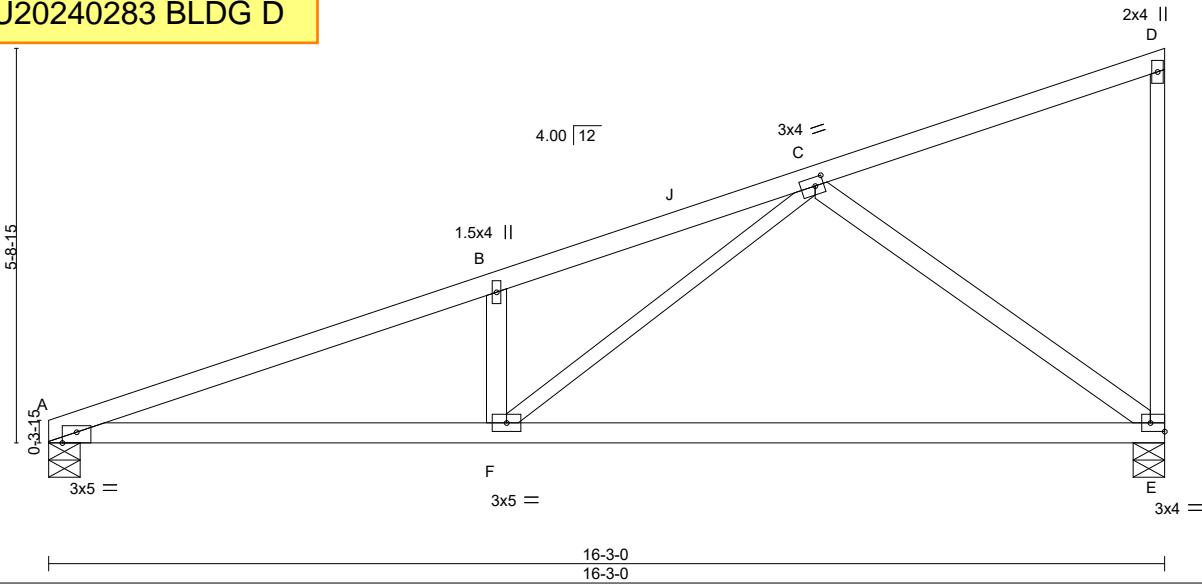


Plate Offsets (X,Y)-- [A:0-2-8,Edge], [C:0-1-8,0-1-8], [E:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.27 E-F	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.54 E-F		
TCDL	12.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.03 E		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.06 F-I	Weight: 56 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	D-E,C-F: 2x3 SPF No.2		

REACTIONS. (size) A=0-5-8, E=0-5-8
Max Horz A=163(LC 6)
Max Uplift A=-68(LC 6), E=-123(LC 6)
Max Grav A=804(LC 16), E=927(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1770/100, B-C=-1778/157
BOT CHORD A-F=-216/1635, E-F=-146/846
WEBS B-F=-413/142, C-F=90/1024, C-E=-1040/186

- 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 exposed ; end vertical left 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 68 lb uplift at joint A and 123 lb uplift at joint E.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:11 2024 Page 1
 ID:hFyjDMxrTsEK_kgkR0vWWWzFfg-VgxryX7NpTsm8vjYORZOh8jPfssKYelHryYa?5yeVr2
 5-10-11 10-11-9 16-3-0
 5-10-11 5-10-15 5-3-7



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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-281/29, B-C=-103/253
 WEBS B-I=-498/156, C-I=-607/128

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

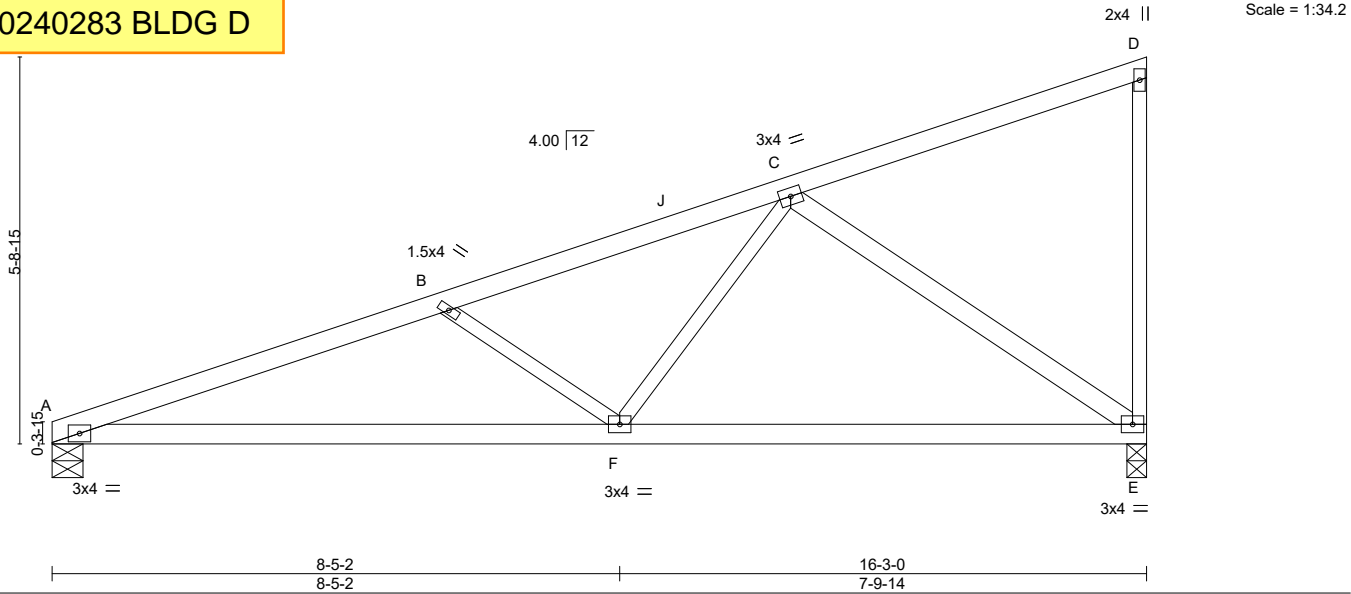


240 Stirling Crescent
Bradford, ON L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530851
N0653A	M6	MONOPITCH	4	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:11 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-VgxryX7NpTsm8VjYORZO8jP1sn3YWDHRyYa?5yeVr2
10-11-9 5-0-15 16-3-0 5-3-7

PRMU20240283 BLDG D



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.48	Vert(LL)	-0.10	F-I	>999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.67	Vert(CT)	-0.22	F-I	>876		
TCDL 12.0	Lumber DOL 1.15	WB 0.79	Horz(CT)	0.03	E	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.06	F-I	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	
C-E: 2x4 SPF No.2	

REACTIONS. (size) A=0-5-8, E=0-3-8
Max Horz A=163(LC 6)
Max Uplift A=-68(LC 6), E=-123(LC 6)
Max Grav A=804(LC 16), E=927(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1762/150, B-C=-1370/76
BOT CHORD A-F=-267/1643, E-F=-143/909
WEBS B-F=-502/150, C-F=-4/597, C-E=-1101/175

- 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 exposed ; end vertical left 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 except (jt=lb) E=123.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	N1	MONOPITCH SUPPORTED	48	1	

U1530852

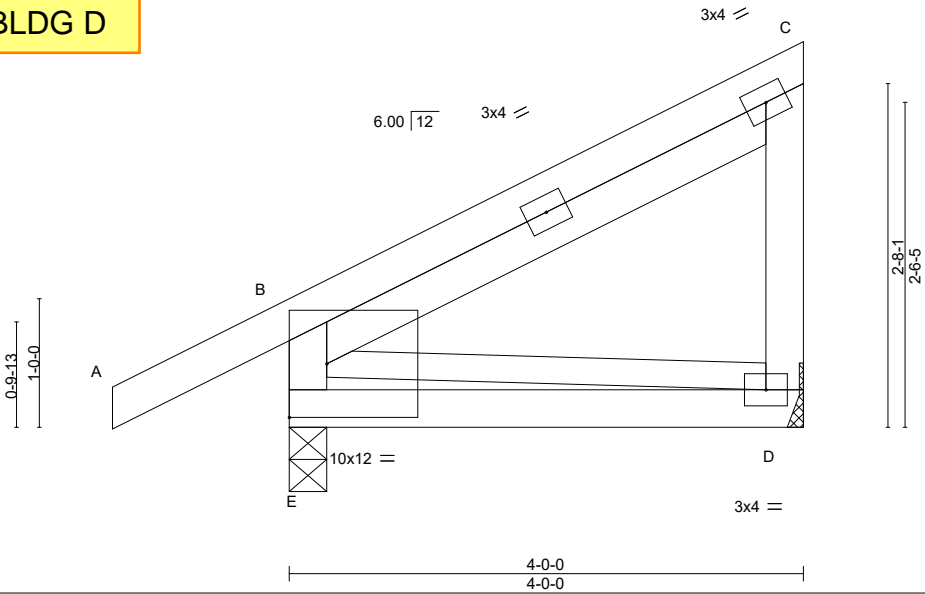
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:12 2024 Page 1
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PRMU20240283 BLDG D

Scale = 1:17.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.26	Vert(LL)	-0.01	D-E	>999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	-0.02	D-E	>999		
TCDL 12.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	D	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.00	E	****		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
B-D: 2x3 SPF No.2	

REACTIONS. (size) E=0-3-8, D=Mechanical
Max Horz E=87(LC 7)
Max Uplift E=-41(LC 10), D=-30(LC 10)
Max Grav E=450(LC 17), D=210(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-414/59

- 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) 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, D.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	N2	MONOPITCH	120	1	

U1530853

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:12 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-zsVDA8?amadmflky94dEMGZtGEMH9VQfcl7YYeVr1

PRMU20240283 BLDG D

Scale = 1:20.4

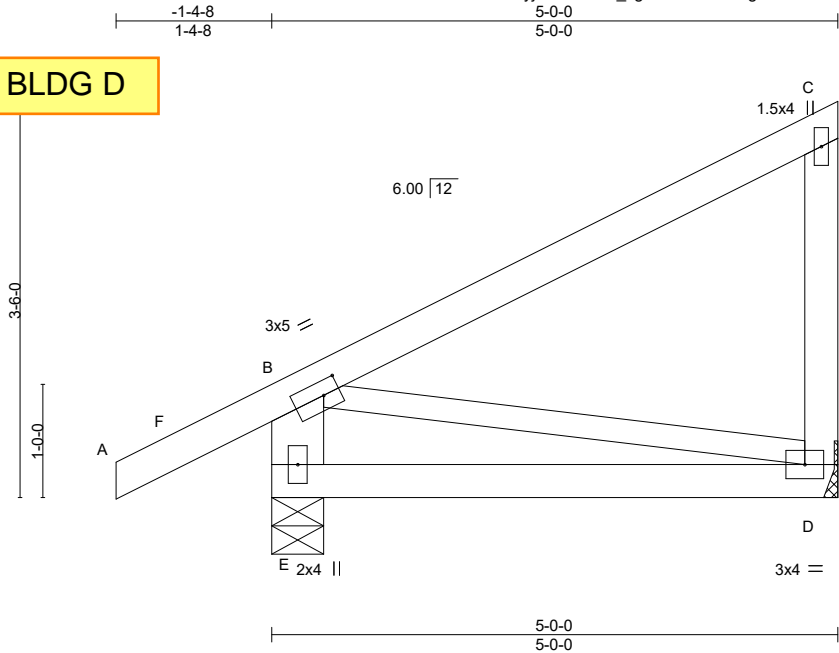


Plate Offsets (X,Y)-- [B:0-1-12,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.03 D-E	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05 D-E		
TCDL	12.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00 D		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP		Wind(LL)	0.00 E	Weight: 22 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	B-E: 2x6 SPF No.2, B-D: 2x3 SPF No.2		

REACTIONS. (size) D=Mechanical, E=0-5-8
Max Horz E=105(LC 7)
Max Uplift D=-38(LC 10), E=-45(LC 10)
Max Grav D=281(LC 17), E=485(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-439/68

- 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) 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) D, E.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530854
N0653A	P1	GABLE	7	1	Job Reference (optional)	

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:14 2024 Page 1
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PRMU20240283 BLDG D

5x8 ||
3x4 ==
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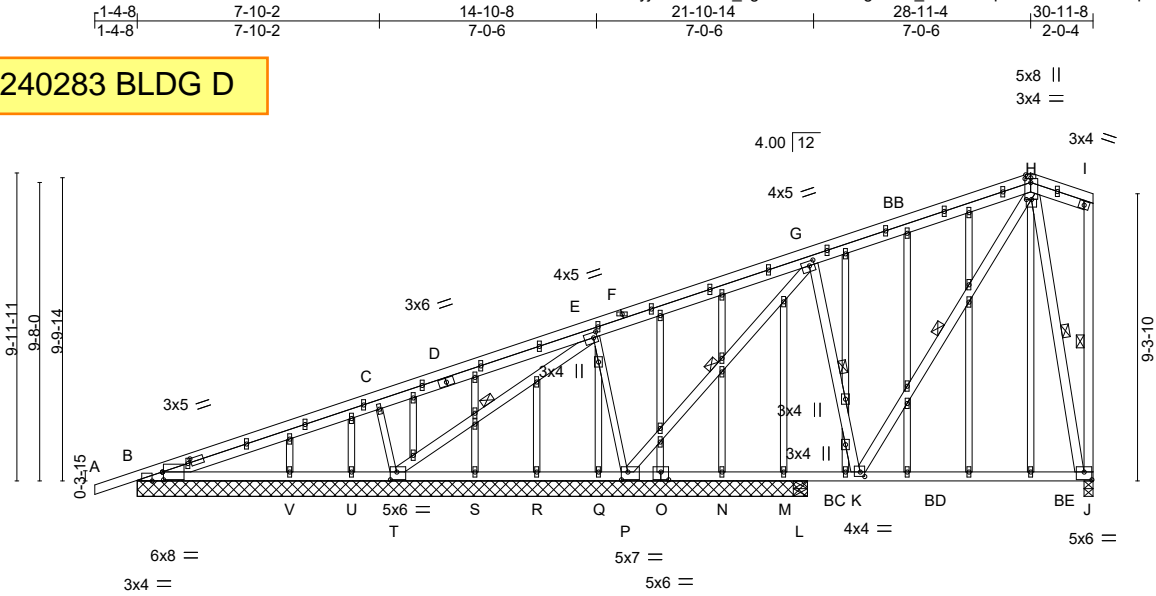


Plate Offsets (X,Y)--	[B:0-0-7,0-3-0], [B:0-11-12,0-1-8], [B:0-4-0,Edge], [E:0-1-8,0-2-0], [G:0-2-0,0-1-12], [H:0-1-8,0-2-4], [H:0-2-0,0-0-0], [H:0-2-0,Edge], [J:0-3-0,0-3-0], [K:0-1-12,0-1-12], [O:0-3-0,0-3-0], [P:0-2-8,0-3-0], [T:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.75	Vert(LL)	-0.16	J-K	>692	MT20	197/144
TCDL 12.0	Plate Grip DOL 1.15	BC 0.64	Vert(CT)	-0.26	J-K	>432		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.97	Horz(CT)	-0.02	N	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.04	V-BA	>999	Weight: 226 lb	FT = 20%
	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-9-8 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt E-T, G-P, G-K, H-K, I-J, H-J
C-T,E-P: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 21-8-8 except (jt=length) J=0-3-8, L=0-5-8. (lb) - Max Horz B=754(LC 35) Max Uplift All uplift 100 lb or less at joint(s) M, U, V except B=1006(LC 32), T=1651(LC 40), P=1094(LC 32), J=1170(LC 33), L=198(LC 19) Max Grav All reactions 250 lb or less at joint(s) M, N, Q, R, S, U, L except B=1117(LC 27), T=1750(LC 53), P=1693(LC 29), J=1557(LC 26), V=330(LC 26), B=481(LC 1)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-2932/2749, C-E=-966/930, E-G=-1569/1477, G-H=-1624/1472, H-I=-529/553 BOT CHORD B-V=-2174/2051, U-V=-1082/954, T-U=-393/270, S-T=-1915/1800, R-S=-1022/908, Q-R=-592/477, P-Q=-891/776, N-P=-903/1006, M-N=-1023/1097, L-M=-1209/1282, K-L=-1209/1282, J-K=-293/295 WEBS C-T=-539/202, E-T=-2562/2500, E-P=-943/931, G-P=-2452/2236, G-K=-1136/1260, H-K=-1336/1472, H-J=-1456/1228
---------	--

- 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); ls=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 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) M, U, V except (jt=lb) B=1006, T=1651, P=1094, J=1170, L=198, B=1006.



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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P1	GABLE	7	1	U1530854

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:14 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-vFd_bZ9G6OqL?zS73Z65JnLs14pLlqDj7wnEcQyeVr?

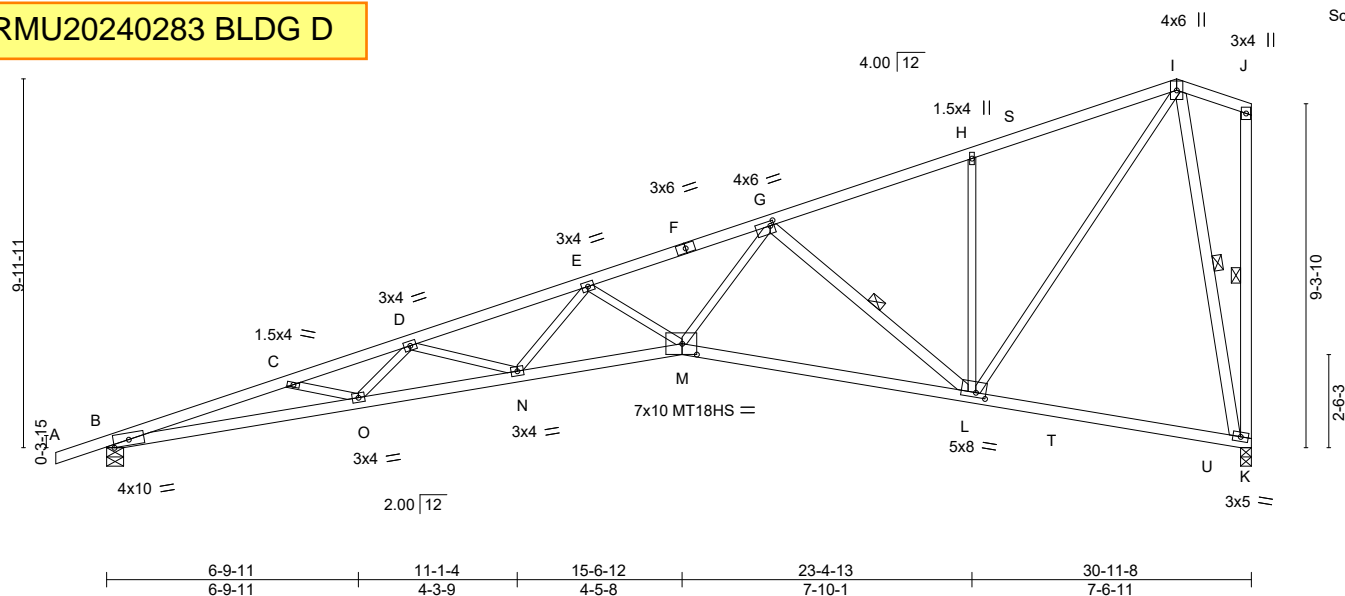
- NOTES-**
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) ~~This truss has been designed for a total drag load of 240 plf.~~ Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0
- 13)

PRMU20240283 BLDG D

ft 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.

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:15 2024 Page 1
 ID:hFyjDMxrTsEK_kgR0rWVWVzFlgc-NRBMovAuthyCd61JdHeKs_u3ET5VUJXtLZWn9syeVr_
 1-4-8 5-0-9 8-2-8 13-0-3 17-11-5 23-4-13 28-11-4 30-11-8
 1-4-8 5-0-9 3-1-15 4-9-11 4-11-3 5-5-8 5-6-7 2-0-4

4x6 II Scale = 1:62.3



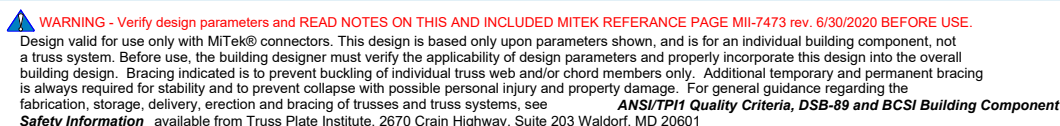
NOTES-

- 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, with BCdL = 10.0psf.
- 8) Bearing at joint(s) B, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=205, K=185.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

1.



September 12, 2024

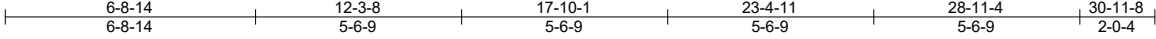


Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530856
N0653A	P3A	Scissor	4	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:16 2024 Page 1

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PRMU20240283 BLDG D

Scale = 1:62.0

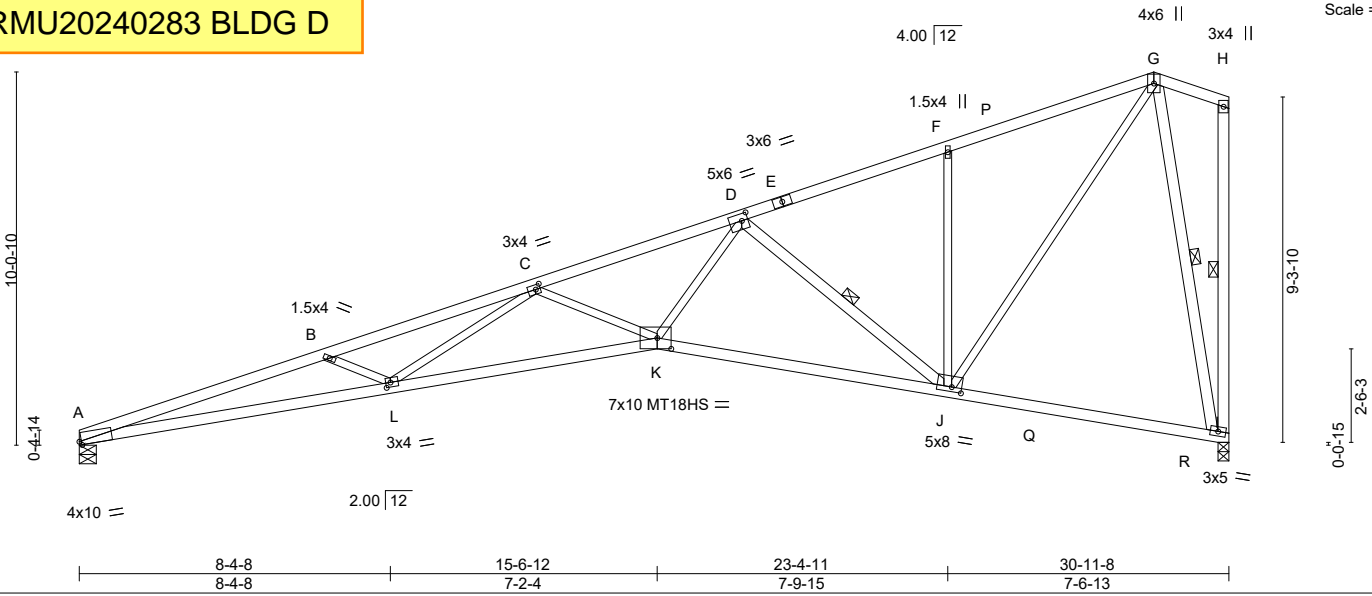


Plate Offsets (X,Y)--	[A:0-0-11,Edge], [C:0-1-8,0-1-8], [D:0-2-0,0-2-4], [J:0-3-4,0-1-8], [K:0-4-8,0-3-8], [L:0-1-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.59	K-L	>623	360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.86	Vert(CT)	-1.09	K-L	>339	240	MT18HS	197/144
TCDL 12.0	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.45	I	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	0.32	K-L	>999	240		
BCDL 10.0									Weight: 127 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* A-E: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.
WEBS 2x3 SPF No.2 *Except* D-J,H-I,G-I: 2x4 SPF No.2	WEBS 1 Row at midpt D-J, H-I, G-I

REACTIONS. (size) A=0-5-8, I=0-3-8
Max Horz A=292(LC 9)
Max Uplift A=-160(LC 6), I=-186(LC 6)
Max Grav A=1499(LC 3), I=1549(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-6798/848, B-C=-6399/734, C-D=-4600/539, D-F=-1502/193, F-G=-1520/255
BOT CHORD A-L=-921/6500, K-L=-713/5265, J-K=-372/3038, I-J=-89/322
WEBS B-L=-487/180, C-L=-55/1066, C-K=-995/222, D-K=-249/2425, D-J=-2108/331, F-J=-480/151, G-J=-263/1985, G-I=-1478/168

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) I 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=Ib) A=160, I=186.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) A.
 - 10) 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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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P4	Common	25	1	

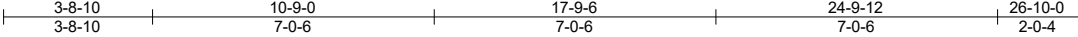
U1530788

Alliance Truss (CA),

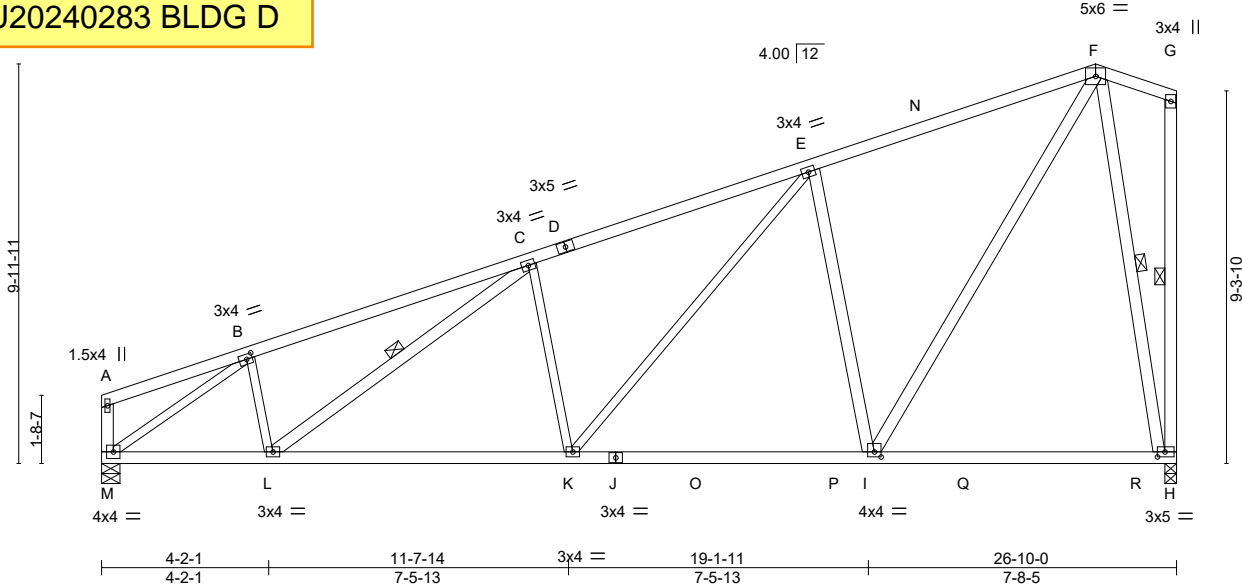
Abbotsford, BC - V2S 7P6,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:35 2024 Page 1

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Scale = 1:57.5

Plate Offsets (X,Y)--	[B:0-1-12,0-1-8], [H:0-2-4,0-1-8], [I:0-2-0,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.72	Vert(LL)	-0.16	H-I	>999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.72	Vert(CT)	-0.26	H-I	>999		
TCDL 12.0	Lumber DOL 1.15	WB 0.97	Horz(CT)	0.05	H	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.06	K-L	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 132 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt C-L, G-H, F-H
B-L,C-K,E-K,B-M: 2x3 SPF No.2	

REACTIONS. (size) M=0-5-8, H=0-3-8
Max Horz M=285(LC 9)
Max Uplift M=-134(LC 6), H=-162(LC 6)
Max Grav M=1315(LC 3), H=1375(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1838/235, C-E=-1856/258, E-F=-1121/203
BOT CHORD L-M=-260/1628, K-L=-227/1770, I-K=-132/1159, H-I=-84/251
WEBS B-L=0/298, C-K=-472/178, E-K=-127/854, E-I=-983/250, F-I=-199/1456, B-M=-1974/205, F-H=-1277/165

- 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=134, H=162.
 - 7) 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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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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P5	GABLE	4	1	

U1530789

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:37 2024 Page 1

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PRMU20240283 BLDG D

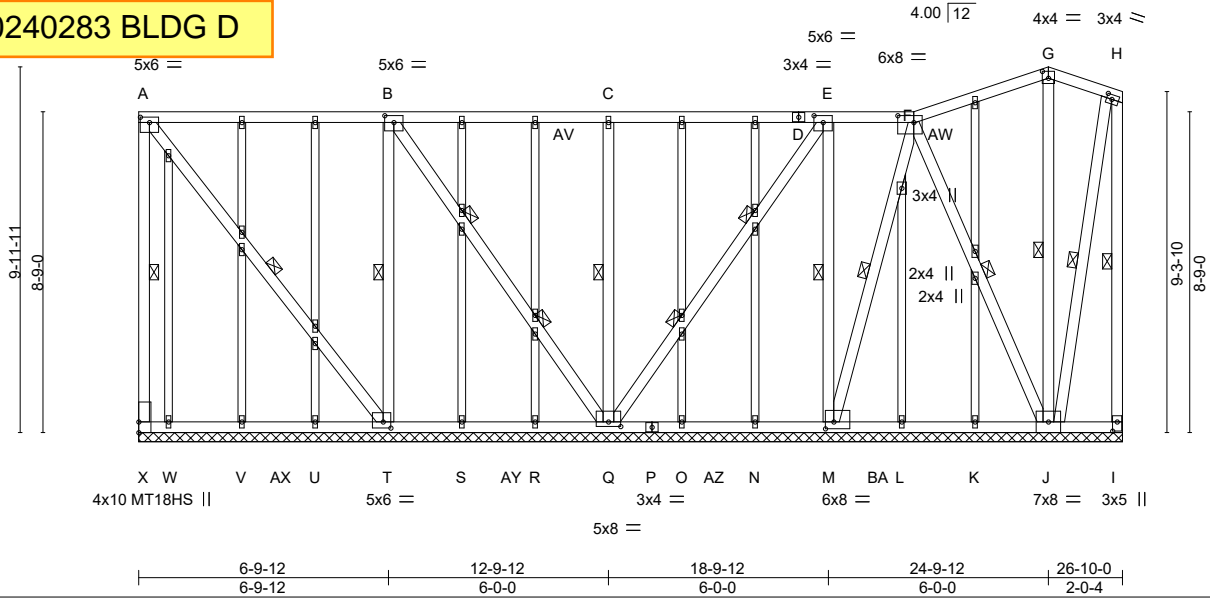


Plate Offsets (X,Y)--	[A:0-3-0,0-1-12], [B:0-3-0,0-2-4], [E:0-3-0,0-2-4], [F:0-5-4,0-2-4], [G:0-2-0,0-2-4], [H:0-1-12,0-1-8], [I:0-3-0,0-1-8], [M:0-2-12,0-2-4], [Q:0-4-0,0-1-8], [T:0-2-8,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.33	Vert(LL) n/a - n/a 999	MT18HS	197/144
TCDL 12.0	Lumber DOL 1.15	WB 0.98	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 Q n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-7-5 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt A-X, A-T, B-T, C-Q, E-M, F-M, F-J, G-J, H-I, H-J
A-X, A-T: 2x4 SPF 2100F 1.8E	2 Rows at 1/3 pts B-Q, E-Q
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 26-10-0.
(lb) - Max Horz X=-159(LC 37)	
Max Uplift All uplift 100 lb or less at joint(s) except X=-2533(LC 36), T=-542(LC 41), Q=-227(LC 40), M=-774(LC 32), J=-1684(LC 33), I=-853(LC 35), W=-126(LC 35)	
Max Grav All reactions 250 lb or less at joint(s) K, L, N, O, R, S, U, V, W except X=2473(LC 35), T=751(LC 28), Q=1118(LC 68), M=899(LC 29), J=1770(LC 52), I=871(LC 52)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-X=-2388/2402, A-B=-1877/1861, B-C=-1612/1590, C-E=-1375/1353, E-F=-541/522, F-G=-1250/1223, G-H=-294/311, H-I=-848/853
BOT CHORD	V-W=-708/702, U-V=-1188/1182, T-U=-1668/1662, S-T=-282/274, R-S=-762/754, Q-R=-1242/1234, O-Q=-1493/1488, N-O=-1013/1008, M-N=-533/528, L-M=-766/763, K-L=-286/283, J-K=-696/693, I-J=-448/448
WEBS	A-T=-3019/3015, B-T=-1990/1993, B-Q=-2347/2335, C-Q=-658/135, E-Q=-2411/2408, E-M=-1962/1955, F-M=-2717/2714, F-J=-2461/2468, G-J=-329/236, H-J=-798/798

- 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 exposed ; end vertical left 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) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.



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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P5	GABLE	4	1	U1530789
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:37 2024 Page 2
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- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2533 lb uplift at joint X, 542 lb uplift at joint T, 227 lb uplift at joint Q, 774 lb uplift at joint M, 1684 lb uplift at joint J, 853 lb uplift at joint I and 126 lb uplift at joint W.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) 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 26-10-0 for 240.0 plf.

PRMU20240283 BLDG D

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P6	GABLE	4	1	

U1530790

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:38 2024 Page 1

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PRMU20240283 BLDG D

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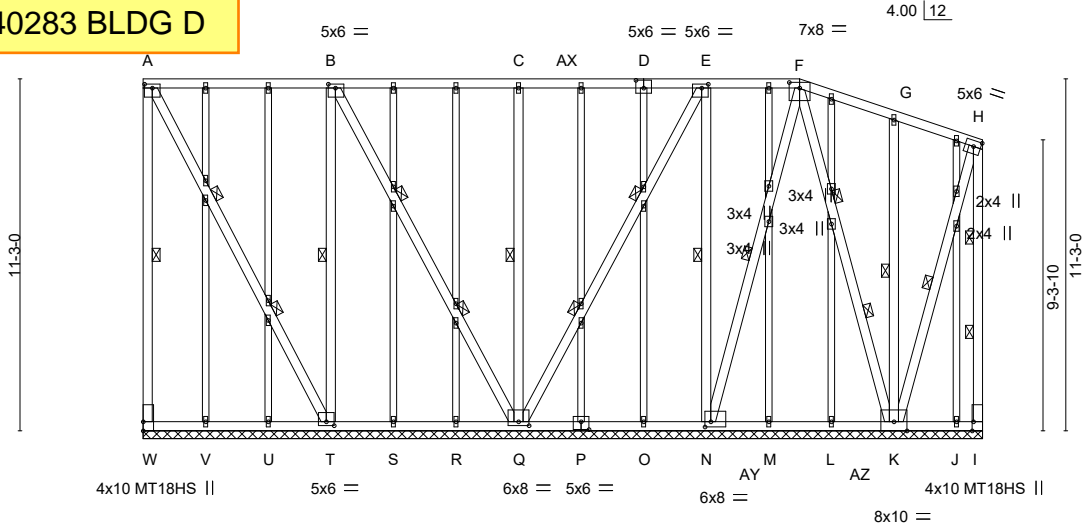


Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [B:0-2-12,0-1-8], [D:0-3-0,0-3-0], [E:0-2-8,0-1-8], [F:0-4-0,0-2-3], [H:0-2-12,0-2-4], [I:0-3-8,Edge], [N:0-2-4,0-2-0], [P:0-3-0,0-3-0], [Q:0-4-0,0-1-8], [T:0-3-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.88	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.33	Vert(CT)	n/a	-	n/a	MT18HS	197/144
TCDL 12.0	Lumber DOL 1.15	WB 1.00	Horz(CT)	0.02	Q	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF 2100F 1.8E *Except*
G-K,H-I,H-K: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS 1 Row at midpt A-W, B-T, C-Q, E-N, F-N, G-K, H-K
2 Rows at 1/3 pts A-T, B-Q, E-Q, F-K, H-I

REACTIONS.

All bearings 26-10-0.
(lb) - Max Horz W=-184(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) except W=-2704(LC 32), T=-119(LC 34), Q=-208(LC 33), N=-332(LC 34), I=-1801(LC 39), K=-1788(LC 35), J=-138(LC 32)
Max Grav All reactions 250 lb or less at joint(s) V, U, S, R, O, M, L, J except W=2688(LC 51), T=578(LC 64), Q=1224(LC 64), N=535(LC 29), I=1782(LC 32), K=1844(LC 52)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-W=-2661/2699, A-B=-1408/1416, B-C=-1456/1464, C-E=-1487/1495, E-F=-771/805, F-G=-977/1027, G-H=-568/541, H-I=-1670/1650
BOT CHORD V-W=-592/625, U-V=-1072/1105, T-U=-1552/1585, S-T=-627/653, R-S=-1107/1133, Q-R=-1587/1613, O-Q=-1534/1535, N-O=-574/575, M-N=-872/862, L-M=-392/382, K-L=-786/775, J-K=-740/716, I-J=-260/236
WEBS A-T=-2996/2982, B-T=-2730/2757, B-Q=-3055/3048, C-Q=-676/137, E-Q=-3062/3111, E-N=-2681/2674, F-N=-2987/3003, F-K=-3332/3303, G-K=-377/112, H-K=-1597/1615

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 right exposed; end vertical 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.



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Continued on page 2

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 on 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



240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P6	GABLE	4	1	U1530790
Job Reference (optional)					

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

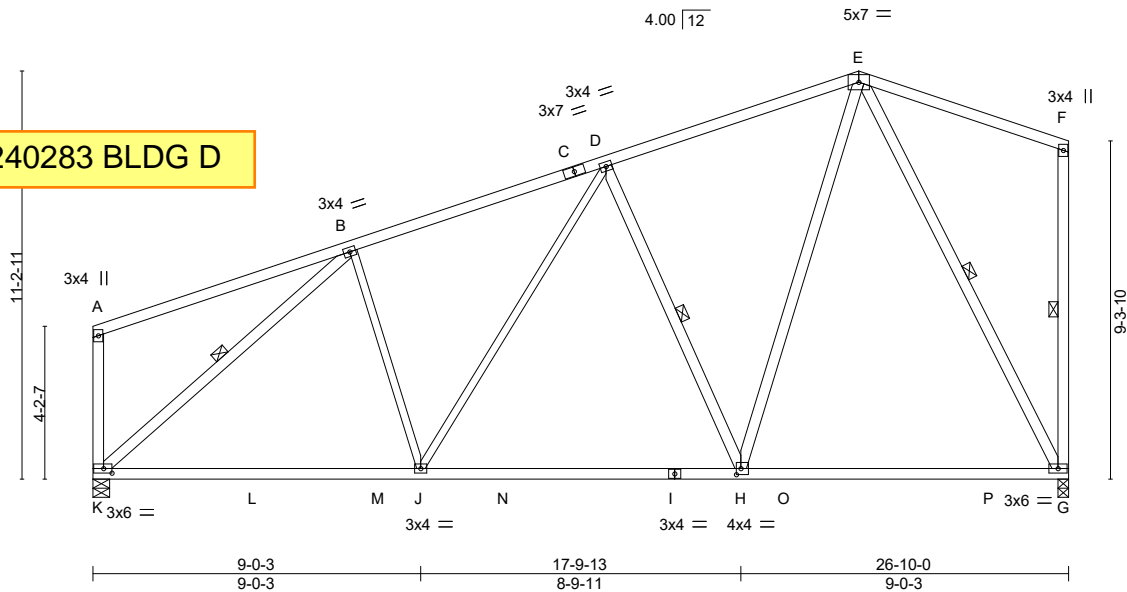
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:39 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2704 lb uplift at joint W, 119 lb uplift at joint T, 208 lb uplift at joint Q, 332 lb uplift at joint N, 1904 lb uplift at joint L, 1798 lb uplift at joint K and 138 lb uplift at joint J.
- 13) PRMU20240283 BLDG D International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) 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 26-10-0 for 240.0 plf.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530791
N0653A	P7	Common	24	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:39 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
21-0-12 26-10-0 5-9-4
7-1-15 7-1-15 14-1-5 6-11-7 6-11-7 6-11-7 21-0-12 26-10-0 5-9-4

PRMU20240283 BLDG D



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.31 G-H >999 360	MT20		197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.49 G-H >652 240				
TCDL	12.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.04 G n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	-0.05 G-H >999 240				
BCDL	10.0							Weight: 137 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt D-H, B-K, F-G, E-G
	B-J,D-J: 2x3 SPF No.2		

REACTIONS. (size) K=0-5-8, G=0-3-8
Max Horz K=262(LC 7)
Max Uplift K=-135(LC 6), G=-125(LC 6)
Max Grav K=1410(LC 3), G=1397(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1415/184, D-E=-1053/174, F-G=-293/68
BOT CHORD J-K=-204/1220, H-J=-159/1168, G-H=-114/592
WEBS B-J=0/257, D-J=-23/265, D-H=-724/193, E-H=-93/1090, B-K=-1567/155, E-G=-1263/128

- 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 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint K and 125 lb uplift at joint G.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



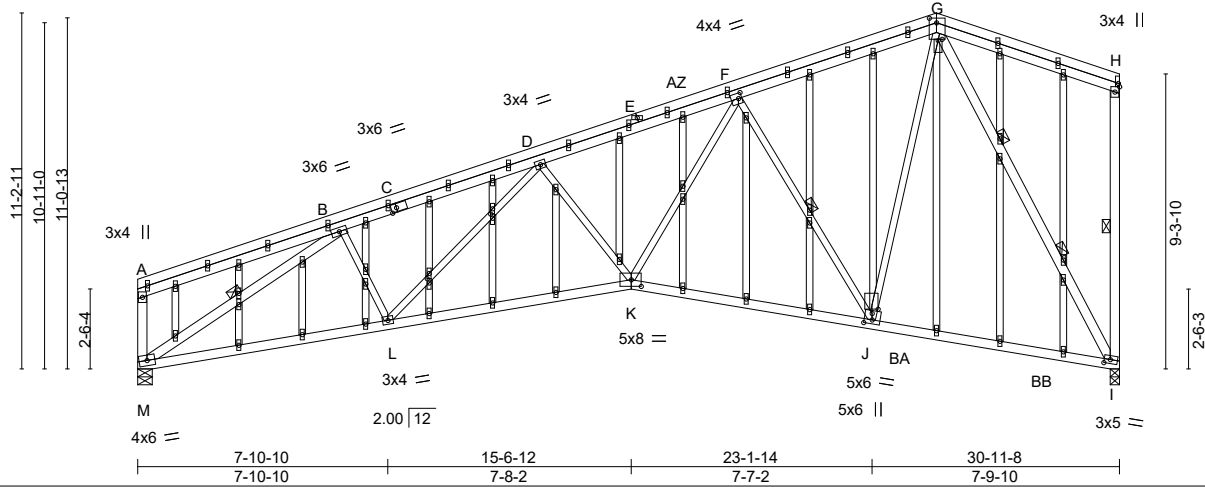
September 12,2024

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



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:17 2024 Page 1
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 6-5-7 12-8-6 18-11-5 25-2-4 30-11-8
 6-5-7 6-2-15 6-2-15 6-2-15 5-9-4

3x5 ||
6x8 ||

4.00 $\overline{12}$ [illegible]

BRACING-TOP CHORD	Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: K-L.	
WEBS	1 Row at midpt	F-J, B-M, H-I
	2 Rows at 1/3 pts	G-I

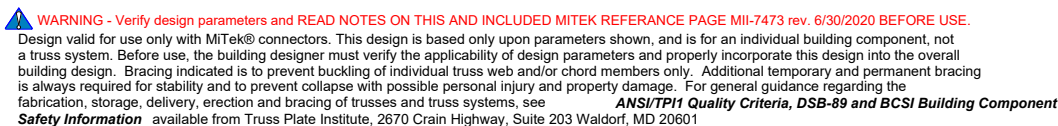
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-D=-2704/322, D-F=-2643/324, F-G=-1220/187, H-I=-306/68
 BOT CHORD L-M=-337/2345, K-L=-323/2679, J-K=-210/1847, I-J=-124/804
 WEBS B-L=0/434, D-K=-356/139, F-K=-139/1352, F-J=-1497/264, G-J=-122/1453,
 B-M=-2724/306, G-I=-1605/138

NOTES-

- 1) 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
- 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) TCDL: 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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Bearing at joint(s) M, I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=157, I=152.
- 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 0 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.



September 12, 2024





Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530792
N0653A	P9	GABLE	1	1	Job Reference (optional)	

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

8.630 s Feb 9 2023 MiTek Industries, Inc. Thu Sep 12 16:09:49 2024 Page 2

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-wSWIUdLJKP6Rg1mNhDR5z1aNhHOb9iTDj_1lvCyeUeW

- NOTES-**
- 13) 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 19-5-8 to 26-10-0 for 873.2 plf.
- 14) **PRMU20240283 BLDG D** ad case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer
- 15) 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.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	P10	GABLE	1	1	U1530793

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:34 2024 Page 1

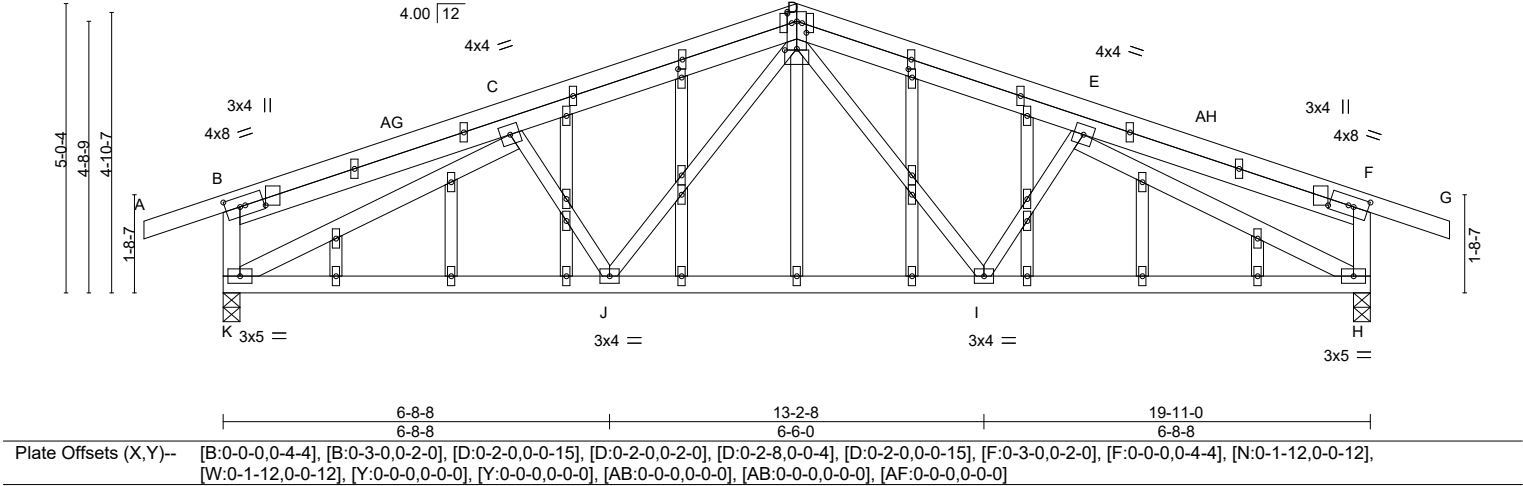
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PRMU20240283 BLDG D

4x8 ||
3x5 =

Scale = 1:40.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.05 H-I >999 360		
TCDL 12.0	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.11 H-I >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 H n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) 0.03 I-J >999 240	Weight: 119 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
D-I, E-I, D-J, C-J: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) K=0-3-8, H=0-3-8
Max Horz K=-31(LC 24)
Max Uplift K=-139(LC 6), H=-139(LC 7)
Max Grav K=1095(LC 17), H=1095(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-1380/138, D-E=-1380/138, B-K=-310/104, F-H=-310/104
BOT CHORD J-K=-110/1342, I-J=-42/1016, H-I=-110/1342
WEBS D-I=-31/403, D-J=-31/403, C-K=-1465/129, E-H=-1465/129

- 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 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) K=139, H=139.
 - 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.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	R1	GABLE	1	1	U1530794

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:41 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Job Reference (optional)



PRMU20240283 BLDG D

4x5 =

Scale = 1:37.4

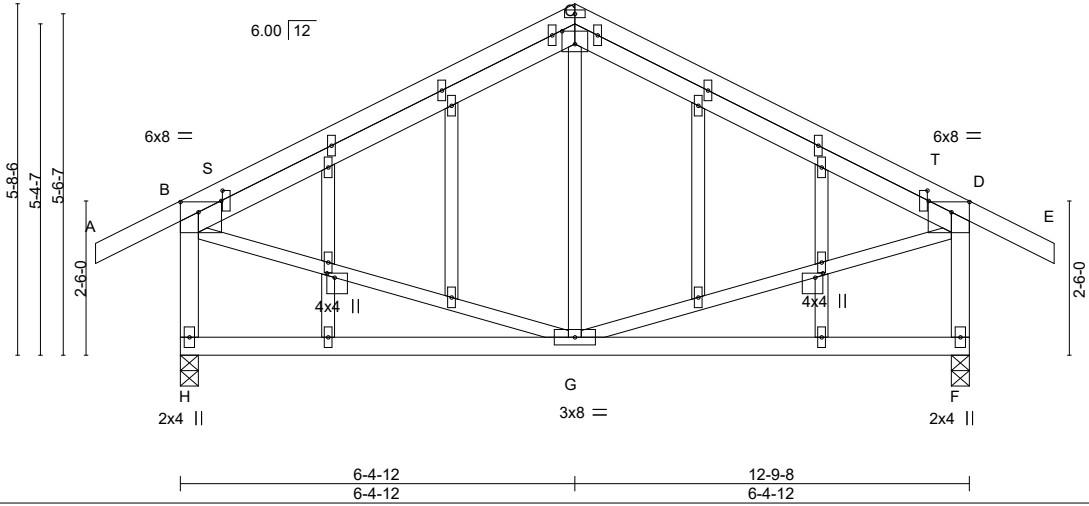


Plate Offsets (X,Y)-- [B:0-3-8,0-2-0], [C:0-2-8,0-2-8], [D:0-3-8,0-2-0], [K:0-0-14,0-1-8], [R:0-0-14,0-1-8], [S:0-2-0,0-0-4], [T:0-2-0,0-0-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.03 G-H	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07 G-H		
TCDL	12.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00 F		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.00 G	Weight: 79 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*		
	B-H,D-F: 2x4 SPF No.2		
OTHERS	2x3 SPF No.2		

REACTIONS. (size) H=0-3-8, F=0-3-8
Max Horz H=93(LC 9)
Max Uplift H=-74(LC 10), F=-74(LC 11)
Max Grav H=802(LC 17), F=802(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-594/62, C-D=-594/62, B-H=-742/99, D-F=-742/99
WEBS B-G=0/383, D-G=0/383

- 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) TCDL: 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) H, F.
 - 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.



September 12,2024

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240 Stirling Crescent
Bradford, ON, L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S1	BLOCKING SUPPORTED	75	1	U1530795
Job Reference (optional)					

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:42 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D

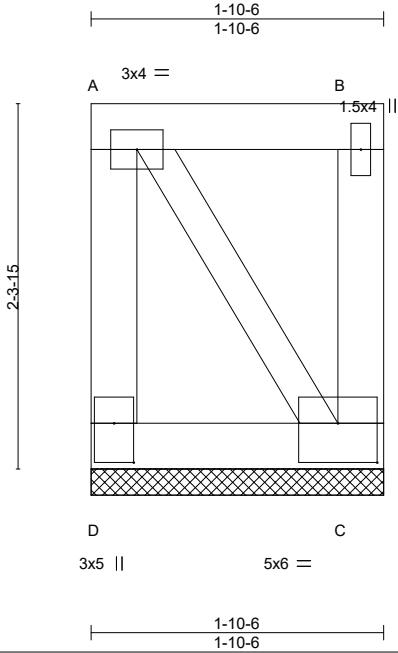


Plate Offsets (X,Y)-- [C:0-3-0,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a -	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a -		
TCDL	12.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00 C		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 10 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	A-C: 2x3 SPF No.2		

REACTIONS.	
(size)	D=1-10-6, C=1-10-6
Max Horz	D=58(LC 5)
Max Uplift	D=-535(LC 24), C=-535(LC 27)
Max Grav	D=544(LC 31), C=544(LC 28)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-D=-528/543, A-B=-361/356
BOT CHORD	C-D=-390/385
WEBS	A-C=-665/665

- 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=1.0; Ct=1.10
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 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) D=535, C=535.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 1-10-6 for 240.0 plf.



September 12, 2024

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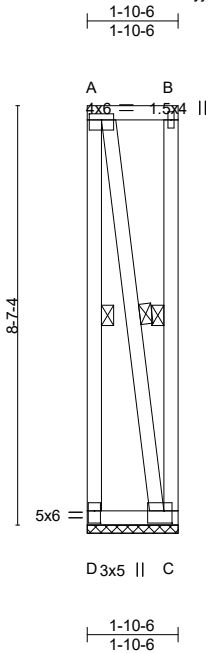


Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S2	BLOCKING SUPPORTED	117	1	U1530859

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:20 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-kP_FrcE1iEbVkuvGQqDVZ2bvvU_U9dlcVrEYp4yeVqv

PRMU20240283 BLDG D



Scale = 1:47.3

Plate Offsets (X,Y)--	[A:0-3-0,0-1-8], [C:0-2-0,0-3-0], [D:0-3-0,0-1-8]
-----------------------	---

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 0.66	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.68	Horz(CT)	0.00	C	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P						Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS.	(size) D=1-10-6, C=1-10-6
	Max Uplift D=-2005(LC 23), C=-2005(LC 24)
	Max Grav D=2030(LC 44), C=2030(LC 43)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-D=-2014/2013, A-B=-340/340
BOT CHORD	C-D=-340/340
WEBS	A-C=-2031/2031

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2005, C=2005.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-10-6 for 240.0 plf.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S3	BLOCKING SUPPORTED	117	1	U1530860

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:21 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-CbYd3yFTXjML1UTzYkk5F84PuKpu4HlkVz5LWyeVqu

PRMU20240283 BLDG D

Scale: 1/4"=1'

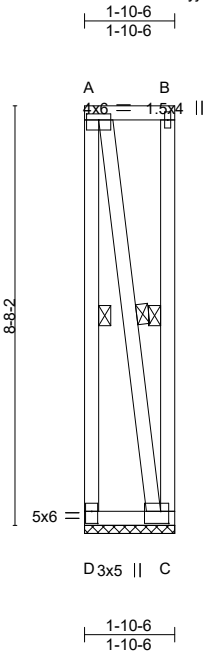


Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [C:0-2-0,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 32 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS.	
(size)	D=1-10-6, C=1-10-6
Max Uplift	D=-2022(LC 23), C=-2022(LC 24)
Max Grav	D=2047(LC 44), C=2047(LC 43)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-D=-2031/2029, A-B=-340/340
BOT CHORD	C-D=-340/340
WEBS	A-C=-2047/2047

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2022, C=2022.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-10-6 for 240.0 plf.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S3A	BLOCKING SUPPORTED	1	1	U1530861

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:21 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-CbYd3yFTXjML1UTzYkk5F84QuLyu4QlkVz5LWyeVqu

PRMU20240283 BLDG D

Scale: 1/4"=1'

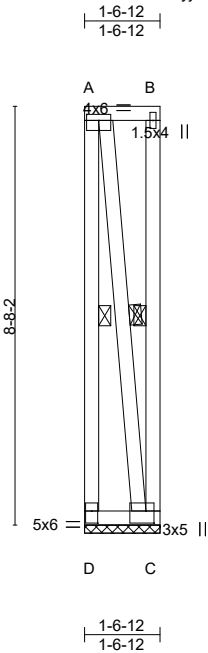


Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [C:0-2-0,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 31 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-6-12 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS.	
(size)	D=1-6-12, C=1-6-12
Max Uplift	D=-2020(LC 23), C=-2020(LC 24)
Max Grav	D=2040(LC 44), C=2040(LC 43)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-D=-2027/2026, A-B=-274/274
BOT CHORD	C-D=-275/275
WEBS	A-C=-2035/2035

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2020, C=2020.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-6-12 for 240.0 plf.



September 12, 2024

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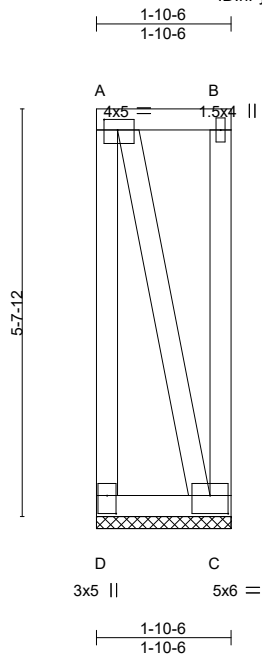


Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S4	BLOCKING SUPPORTED	88	1	U1530862
Job Reference (optional)					

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:22 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzF1gc-gn6?GIFHErrDzB3fXFGzeTgEElgjdUFvy9jftyVqt

PRMU20240283 BLDG D



Scale: 3/8"=1'

Plate Offsets (X,Y)--	[A:0-2-4,0-1-12], [C:0-3-0,0-3-0], [D:0-3-0,0-1-8]
-----------------------	--

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 0.74	Vert(LL)	n/a	-	n/a	999	MT20
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999	197/144
TCDL 12.0	Rep Stress Incr	YES	WB 0.84	Horz(CT)	-0.00	C	n/a	n/a	
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						
BCDL 10.0									
								Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Horz D=-151(LC 4)
Max Uplift D=-1553(LC 24), C=-1553(LC 27)
Max Grav D=1561(LC 31), C=1561(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-1545/1561, A-B=-396/382
BOT CHORD C-D=-472/458
WEBS A-C=-1609/1609

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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) TCCL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 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) D=1553, C=1553.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 1-10-6 for 240.0 plf.



September 12,2024

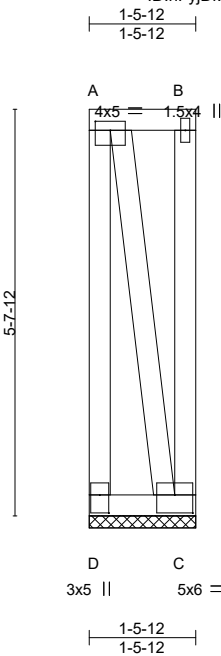
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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S5	BLOCKING SUPPORTED	22	1	U1530863
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:23 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-8_gOTeGv_9z3bLer5ynCBgDOsi0DMxJ2BpSCQPyeVqs

PRMU20240283 BLDG D



Scale: 3/8"=1'

Plate Offsets (X,Y)-- [A:0-2-8,0-1-8], [C:0-3-0,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	-0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 21 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-5-12 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	D=1-5-12, C=1-5-12
Max Horz	D=-152(LC 25)
Max Uplift	D=-1634(LC 24), C=-1634(LC 27)
Max Grav	D=1640(LC 31), C=1640(LC 28)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-D=-1629/1640, A-B=-313/299
BOT CHORD	C-D=-389/375
WEBS	A-C=-1667/1667

- 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) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 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) D=1634, C=1634.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 1-5-12 for 240.0 plf.



September 12,2024

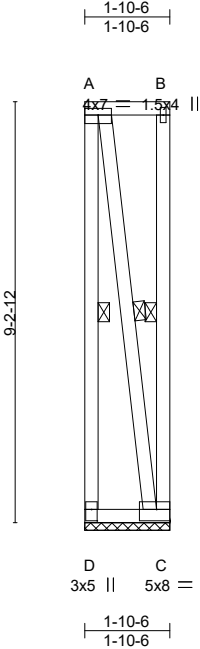
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S6	BLOCKING SUPPORTED	98	1	U1530864

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:23 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-8_gOTeGv_9z3bLer5ynCBgDOoi0HMyf2BpSCQPyeVqs

PRMU20240283 BLDG D



Scale = 1:50.5

Plate Offsets (X,Y)-- [A:Edge,0-1-12], [C:Edge,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 34 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS.	
(size)	D=1-10-6, C=1-10-6
Max Uplift	D=-2155(LC 23), C=-2155(LC 24)
Max Grav	D=2180(LC 44), C=2180(LC 43)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-D=-2164/2163, A-B=-340/340
BOT CHORD	C-D=-340/340
WEBS	A-C=-2178/2178

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2155, C=2155.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-10-6 for 240.0 plf.



September 12,2024

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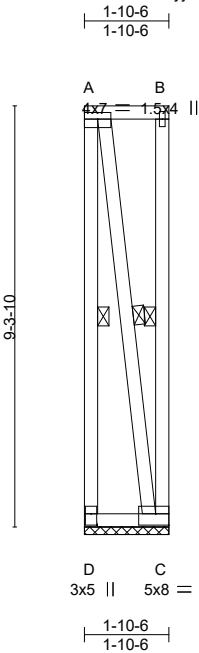
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S7	BLOCKING SUPPORTED	99	1	U1530865
					Job Reference (optional)

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:24 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-cAEmh_HXIS5wCVD2fglSjulYE6MW5OcBQTCmyryeVqr

PRMU20240283 BLDG D



Scale = 1:50.9

Plate Offsets (X,Y)--	[A:Edge,0-1-12], [C:Edge,0-3-0], [D:0-3-0,0-1-8]
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	n/a - n/a	999	MT20	197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a - n/a	999			
TCDL	12.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.00 C	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P							
BCDL	10.0								Weight: 34 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS.	(size) D=1-10-6, C=1-10-6
	Max Uplift D=-2171(LC 23), C=-2171(LC 24)
	Max Grav D=2197(LC 44), C=2197(LC 43)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-D=-2181/2179, A-B=-340/340
BOT CHORD	C-D=-340/340
WEBS	A-C=-2195/2195

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2171, C=2171.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-10-6 for 240.0 plf.



September 12,2024

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



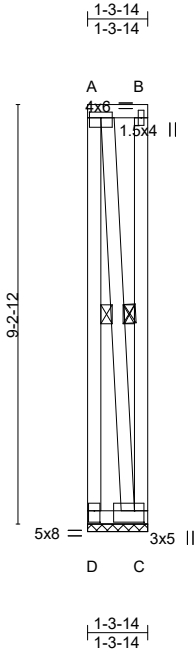
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S8	BLOCKING SUPPORTED	4	1	U1530796

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:45 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D



Scale = 1:50.7

Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [C:0-2-8,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 33 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-3-14 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-3-14, C=1-3-14
Max Uplift D=-2152(LC 23), C=-2152(LC 24)
Max Grav D=2168(LC 44), C=2168(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2158/2157
WEBS A-C=-2160/2160

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2152, C=2152.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-3-14 for 240.0 plf.



September 12, 2024

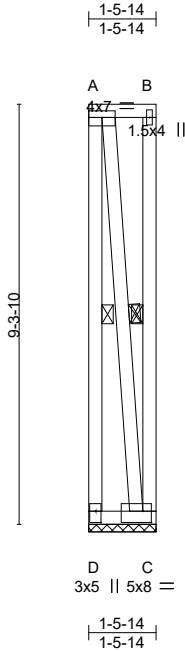
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S11	BLOCKING SUPPORTED	1	1	U1530799
Job Reference (optional)					

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:43 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D



Scale = 1:51.0

Plate Offsets (X,Y)--	[A:Edge,0-1-12], [C:0-2-4,0-3-0], [D:0-3-0,0-1-8]
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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 Plate Grip DOL 1.15	TC 0.83	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P					Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-5-14 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS.	(size) D=1-5-14, C=1-5-14
Max Uplift D=-2169(LC 23), C=-2169(LC 24)	
Max Grav D=2188(LC 44), C=2188(LC 43)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-D=-2176/2175, A-B=-259/259
BOT CHORD	C-D=-259/259
WEBS	A-C=-2181/2181

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2169, C=2169.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-5-14 for 240.0 plf.



September 12, 2024

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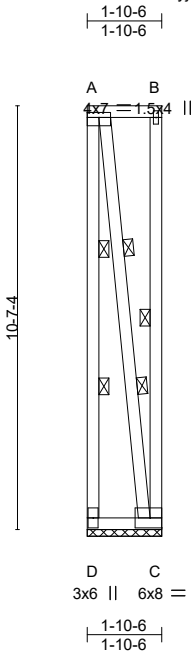
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S12	BLOCKING SUPPORTED	232	1	U1530800

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:43 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWvzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D



Scale = 1:57.7

Plate Offsets (X,Y)-- [A:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 39 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt B-C 2 Rows at 1/3 pts A-D, A-C

REACTIONS.	(size) D=1-10-6, C=1-10-6
	Max Uplift D=-2485(LC 23), C=-2485(LC 24)
	Max Grav D=2510(LC 44), C=2510(LC 43)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-D=-2494/2493, A-B=-340/340
BOT CHORD	C-D=-340/340
WEBS	A-C=-2504/2504

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=2485, C=2485.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-10-6 for 240.0 plf.



September 12,2024

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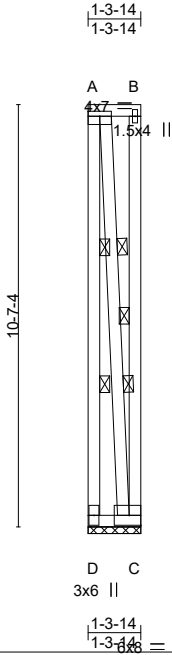
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S13	BLOCKING SUPPORTED	6	1	U1530801
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:44 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D



Scale = 1:57.9

Plate Offsets (X,Y)-- [A:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P				Weight: 37 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-3-14 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt B-C
			2 Rows at 1/3 pts A-D, A-C

REACTIONS. (size) D=1-3-14, C=1-3-14
Max Uplift D=-2482(LC 23), C=-2482(LC 24)
Max Grav D=2498(LC 44), C=2498(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2488/2487
WEBS A-C=-2488/2488

- 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; 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) TCDL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 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) D=2482, C=2482.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 1-3-14 for 240.0 plf.



September 12,2024

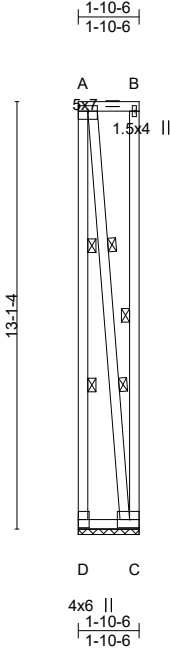
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S14	BLOCKING SUPPORTED	36	1	U1530802

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:45 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240283 BLDG D



Scale = 1:70.6

Plate Offsets (X,Y)-- [A:Edge,0-2-0]		6x8 ==	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.99	in (loc) l/defl L/d
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999
TCDL 12.0	Lumber DOL 1.15	WB 1.00	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		
			PLATES GRIP
			MT20 197/144
			Weight: 47 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF 2100F 1.8E	WEBS 1 Row at midpt B-C
	2 Rows at 1/3 pts A-D, A-C

REACTIONS.	(size) D=1-10-6, C=1-10-6
	Max Uplift D=-3085(LC 23), C=-3085(LC 24)
	Max Grav D=3110(LC 44), C=3110(LC 43)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-D=-3094/3093, A-B=-340/340
BOT CHORD	C-D=-340/340
WEBS	A-C=-3099/3099

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) D=3085, C=3085.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) 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 1-10-6 for 240.0 plf.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S15	BLOCKING STRUCTURAL	2	1	U1530866

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:18 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzF1gc-o0tVQwCmAcKnUamulPB1UdWbGhKphrQJ2XIRkByeVqx

1-7-0
1-7-0

PRMU20240283 BLDG D

Scale = 1:47.4

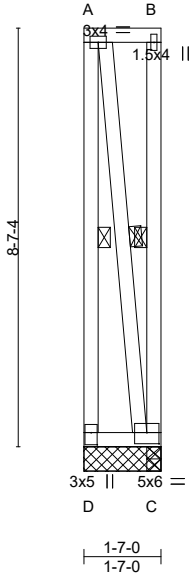


Plate Offsets (X,Y)-- [C:0-3-0,0-2-12], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.00 D >999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00 D >999		
TCDL	12.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 D ****	Weight: 31 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-7-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-7-0, C=1-7-0, C=1-7-0
Max Horz D=-175(LC 6)
Max Uplift D=-548(LC 6), C=-435(LC 5)
Max Grav D=419(LC 5), C=577(LC 6), C=61(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-413/561
WEBS A-C=-570/432

- 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 exposed; end vertical left 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) Provide adequate drainage to prevent water ponding.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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) except (jt=lb) D=548, C=435.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S16	BLOCKING STRUCTURAL	9	1	U1530867

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

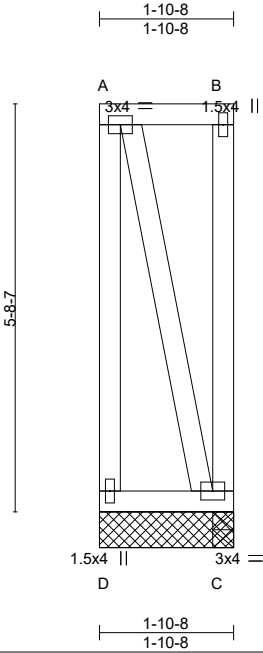
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:18 2024 Page 1

Job Reference (optional)

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-o0tVQwCmAcKnUamuIPB1UdWj0hKrhtMJ2XIRkByeVqx

PRMU20240283 BLDG D

Scale: 3/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.05	Vert(LL)	-0.00 D	>999	360	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00 D	>999	240		
TCDL 12.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00 C	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.00 D	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) D=1-10-8, C=1-10-8, C=1-10-8
Max Uplift D=-9(LC 4), C=-9(LC 4)
Max Grav D=74(LC 1), C=74(LC 1), C=74(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; 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) Provide adequate drainage to prevent water ponding.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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) D, C.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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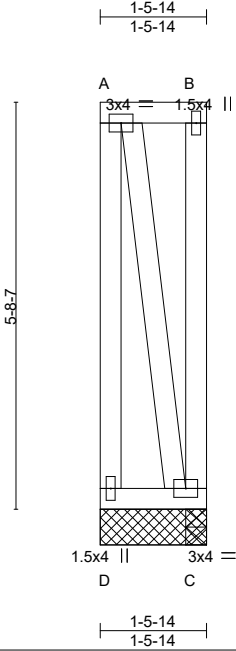
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S17	BLOCKING STRUCTURAL	2	1	U1530868

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:19 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-GCQteGDOxwTe6kL4s7iG0q2u55fEQKcSGBU?HeyeVqw

PRMU20240283 BLDG D



Scale: 3/8"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.03	Vert(LL)	-0.00 D	>999	360	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	-0.00 D	>999	240		
TCDL 12.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00 C	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.00 D	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-5-14 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) D=1-5-14, C=1-5-14, C=1-5-14
Max Uplift D=-7(LC 4), C=-7(LC 4)
Max Grav D=56(LC 1), C=56(LC 1), C=56(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; 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) Provide adequate drainage to prevent water ponding.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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) D, C.
 - 9) 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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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S18	BLOCKING STRUCTURAL	1	1	

U1530869

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:19 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFIgc-GCQteGDOxwTe6kL4s7iG0q2kw5fUQAWSGBU?HeyeVqw

1-7-0
1-7-0

PRMU20240283 BLDG D

Scale: 1/4"=1'

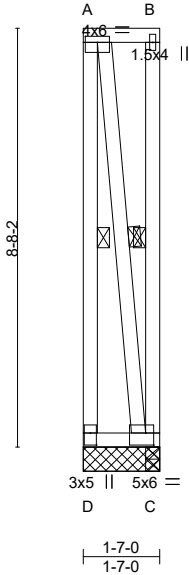


Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [C:0-2-0,0-3-0], [D:0-3-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.00 D	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00 D		
TCDL	12.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.00 C		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 D	Weight: 31 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-7-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt A-D, B-C, A-C

REACTIONS.	
(size)	D=1-7-0, C=1-7-0, C=1-7-0
Max Uplift	D=-2020(LC 23), C=-2020(LC 24)
Max Grav	D=2041(LC 44), C=2041(LC 43), C=61(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-D=-2028/2026, A-B=-279/279
BOT CHORD	C-D=-279/279
WEBS	A-C=-2036/2036

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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) except (jt=lb) D=2020, C=2020.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) 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 1-7-0 for 240.1 plf.



September 12,2024

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

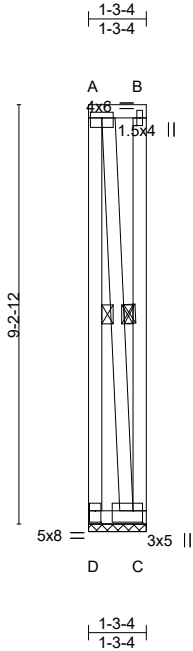
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	S19	BLOCKING SUPPORTED	1	1	U1530870
Job Reference (optional)					

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:20 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-kP_FrcE1iEbVkuVGQqDVZ2btaU?y9b9cVrEYp4yeVqv

PRMU20240283 BLDG D



Scale = 1:50.7

Plate Offsets (X,Y)--	[A:0-3-0,0-1-8], [C:0-2-8,0-3-0], [D:0-3-0,0-1-8]
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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 0.81	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.00	C	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						Weight: 33 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS.	(size) D=1-3-4, C=1-3-4
Max Uplift D=-2151(LC 23), C=-2151(LC 24)	
Max Grav D=2167(LC 44), C=2167(LC 43)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-D=-2157/2156
WEBS	A-C=-2158/2158

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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) TCCL: ASCE 7-16; Pf=25.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 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) D=2151, C=2151.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 1-3-4 for 240.0 plf.



September 12,2024

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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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530871
N0653A	T1	GABLE	9	1	Job Reference (optional)	

Alliance Truss (CA),

Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:25 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-4Mo8uJI9WmDnqfoECNphG5Ik9VW_qqeLf7xJUHyeVqq

PRMU20240283 BLDG D

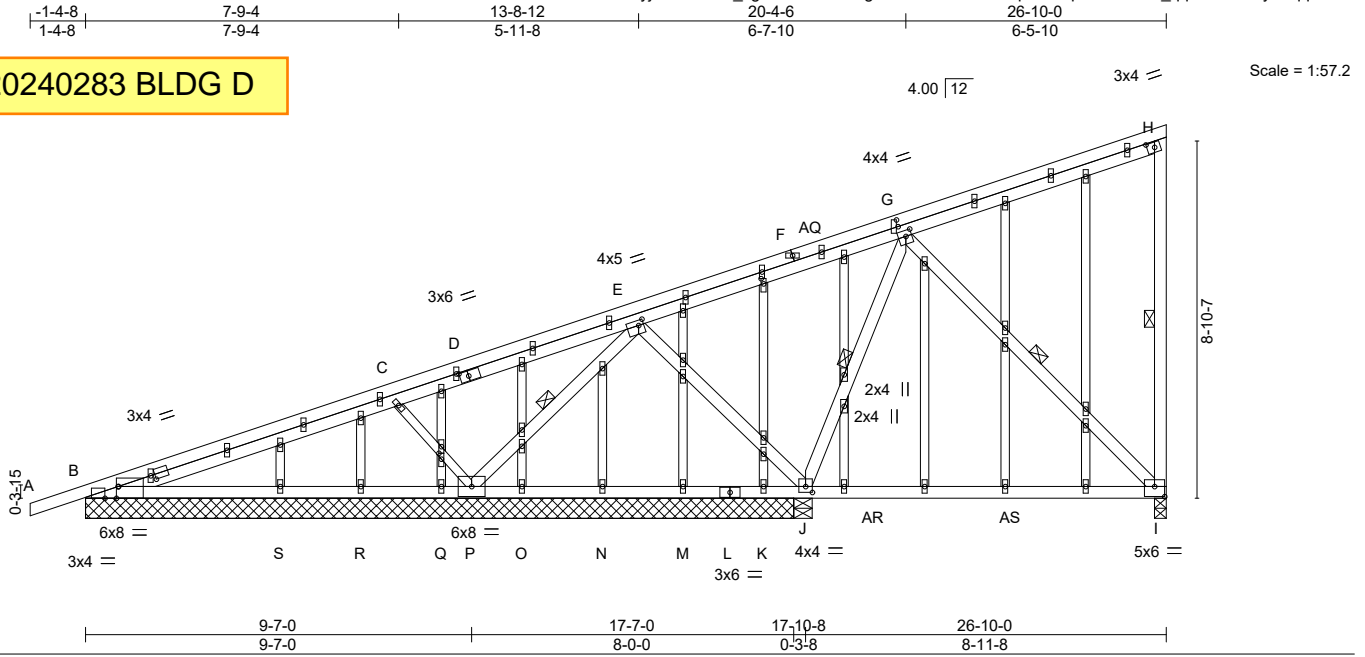


Plate Offsets (X,Y)--	[B:0-0-9,Edge], [B:0-11-7,0-1-8], [B:0-4-0,Edge], [D:0-2-10,0-1-8], [E:0-1-8,0-1-8], [G:0-2-0,0-0-8], [G:0-1-12,0-1-12], [H:0-2-4,0-1-8], [I:0-3-0,0-3-0], [J:0-2-0,0-1-12], [AF:0-1-9,0-0-12], [AM:0-1-12,0-0-12]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.89	Vert(LL) -0.22 I-J >478 360		
TCDL 12.0	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.37 I-J >288 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.02 N n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) -0.04 I-J >999 240	Weight: 176 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-6-7 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt H-I, E-P, G-J, G-I
C-P: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 17-7-0 except (jt=length) I=0-3-8, J=0-5-8.
(lb) - Max Horz B=434(LC 38)	
Max Uplift All uplift 100 lb or less at joint(s) R except I=-871(LC 41), B=-806(LC 32), P=-2103(LC 40), J=-318(LC 32), K=-446(LC 19)	
Max Grav All reactions 250 lb or less at joint(s) M, N, O, Q, R, S except I=1117(LC 28), B=921(LC 29), P=2141(LC 53), J=1434(LC 29)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2718/2502, C-E=-1022/984, E-G=-2148/1999, G-H=-1764/1659, H-I=-301/52	
BOT CHORD B-S=-2719/2495, R-S=-948/845, Q-R=-820/717, P-Q=-1096/992, O-P=-882/804, N-O=-480/402, M-N=-1213/1134, K-M=-1945/1862, J-K=-2328/2249, I-J=-886/836	
WEBS C-P=-559/200, E-P=-2729/2683, E-J=-1440/1477, G-J=-1516/1417, G-I=-1175/1213	

- 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 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) R except (jt=lb) I=-871, B=806, P=2103, J=318, K=446.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	T1	GABLE	9	1	U1530871

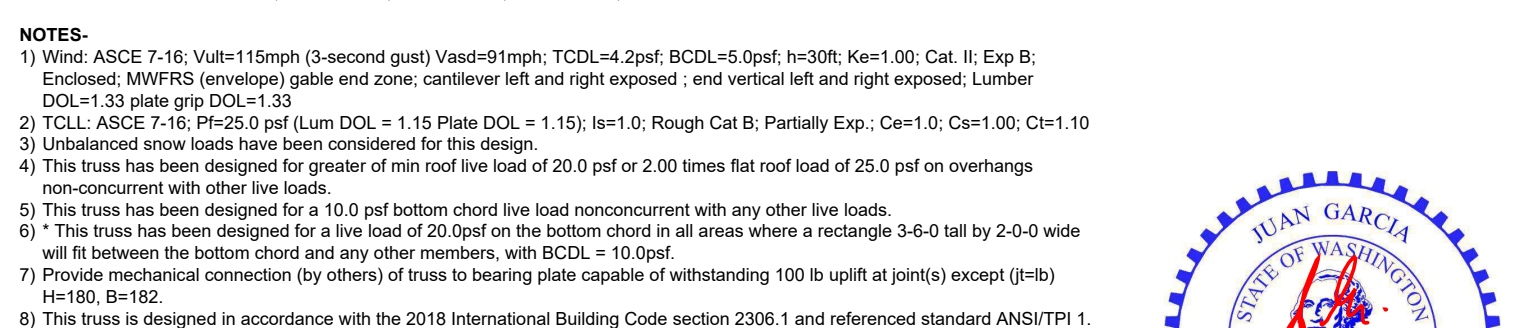
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:26 2024 Page 2
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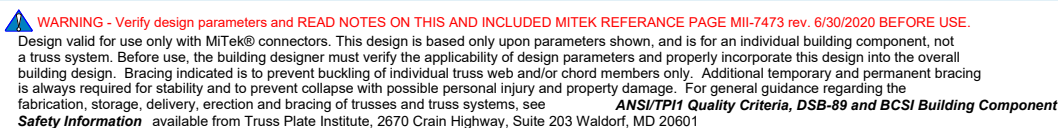
NOTES-
13) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

PRMU20240283 BLDG D

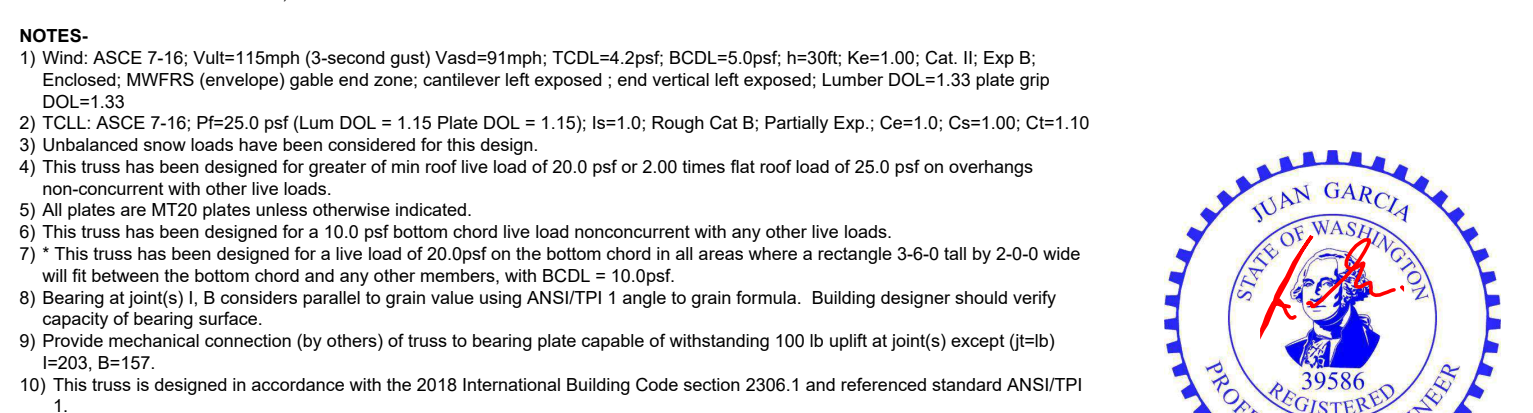
Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:26 2024 Page 1
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 -1-4-8 7-9-4 13-8-12 20-4-6 26-10-0
 1-4-8 7-9-4 5-11-8 6-7-10 6-5-10



September 12, 2024



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:27 2024 Page 1
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 1-4-8 6-3-5 5-1-1 5-1-1 5-1-1 5-3-9



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	T3	GABLE	9	1	

U1530874

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:28 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-VxTHXLK2phbMh6XpuWM0ukwENjcp1BunL5Az5cyeVqn



PRMU20240283 BLDG D

Scale = 1:56.9

Plate Offsets (X,Y)-- [B:0-0-9,Edge], [B:0-11-7,0-1-8], [B:0-4-0,Edge], [D:0-2-10,0-1-8], [E:0-1-8,0-1-8], [G:0-2-4,0-1-8], [H:0-2-4,0-1-8], [I:0-3-0,0-3-0], [AF:0-1-9,0-0-12], [AM:0-1-12,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.01 A n/r 120		
TCDL 12.0	Lumber DOL 1.15	WB 0.89	Vert(CT) 0.04 A n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.03 K n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 176 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-11-1 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt H-I, E-T, G-N, G-I
C-T: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz B=291(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) J, V except I=-1199(LC 35), B=-704(LC 32), T=-2021(LC 40), N=-900(LC 40)
Max Grav All reactions 250 lb or less at joint(s) J, K, L, M, O, Q, R, S, U, V, W except I=1231(LC 28), B=844(LC 29), T=2060(LC 53), N=1177(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2361/2145, C-E=-1374/1337, E-G=-1682/1537, G-H=-1756/1658, H-I=-302/52
BOT CHORD B-W=-2234/2014, V-W=-1074/970, U-V=-594/442, T-U=-352/288, S-T=-1564/1483, R-S=-1294/1213, Q-R=-814/733, O-Q=-367/286, N-O=-593/512, M-N=-1104/1049, L-M=-897/843, K-L=-417/389, J-K=-725/670, I-J=-1170/1115
WEBS C-T=-559/189, E-T=-2629/2583, E-N=-1389/1425, G-N=-1915/1874, G-I=-1577/1612

- 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) TCDL: 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, with BCDL = 10.0psf.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, V except (jt=lb) I=1199, B=704, T=2021, N=900.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI



September 12,2024

Continued on page 2

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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

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	T3	GABLE	9	1	U1530874

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:29 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-z71fhLga?jDJG5?RDudQxTP77y2me8xZlvXd3yeVqm

- NOTES-**
- 13) 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 26-10-0 for 240.0 plf
- 14) **PRMU20240283 BLDG D** ft end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530803
N0653A	U1	GABLE	10	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:46 2024 Page 1
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1-4-8 6-10-0 6-10-0 1-4-8
4x5 || Scale = 1:38.9

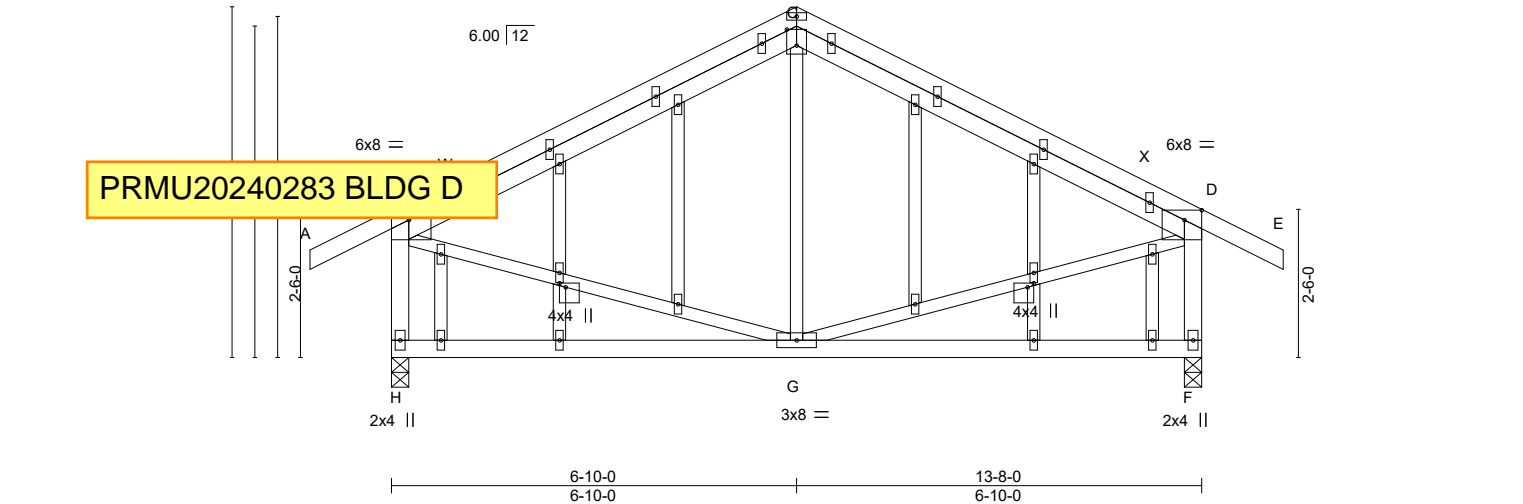


Plate Offsets (X,Y)--	[B:0-3-8,0-2-0], [C:0-3-4,0-2-0], [D:0-3-8,0-2-0], [K:0-0-13,0-1-4], [T:0-0-13,0-1-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.81	Vert(LL)	-0.04	F-G	>999	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.33	Vert(CT)	-0.09	F-G	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.00	F	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL)	0.00	G	>999	Weight: 86 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* B-H,D-F: 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) H=0-3-8, F=0-3-8
Max Horz H=-95(LC 8)
Max Uplift H=-77(LC 10), F=-77(LC 11)
Max Grav H=836(LC 17), F=836(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-643/66, C-D=-643/66, B-H=-771/103, D-F=-771/103
WEBS B-G=0/413, D-G=0/413

- 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) TCDL: 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) H, F.
 - 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.



September 12,2024

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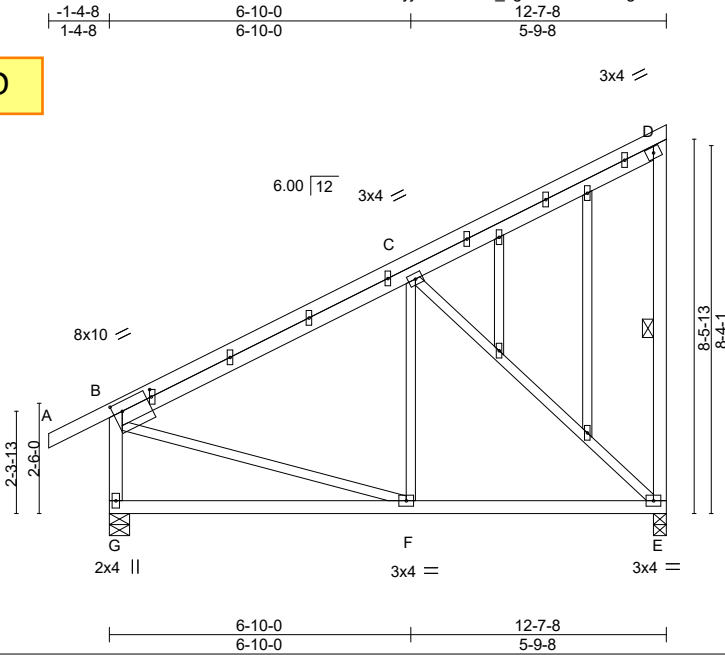


Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	U2	GABLE	10	1	U1530804

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:47 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

PRMU20240283 BLDG D



Scale = 1:52.2

Plate Offsets (X,Y)-- [B:0-2-8,0-2-8], [B:0-2-0,0-0-7]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	2-0-0		TC	0.63	in (loc)	l/defl	L/d	GRIP
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.33	Vert(LL)	-0.05 F-G	>999	360
TCDL	12.0	Lumber DOL	1.15	WB	0.92	Vert(CT)	-0.10 F-G	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-MS		Horz(CT)	0.01 E	n/a	n/a
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	-0.02 E-F	>999	240
								Weight: 82 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 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt D-E
	D-E,B-G: 2x4 SPF No.2		
OTHERS	2x3 SPF No.2		

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=253(LC 9)
Max Uplift G=-65(LC 10), E=-107(LC 10)
Max Grav G=749(LC 17), E=739(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-621/41, D-E=-262/51, B-G=-685/95
BOT CHORD E-F=-101/474
WEBS C-E=-631/138, B-F=0/431

- 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) G except (jt=lb) E=107.
 - 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 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.



September 12,2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	U3	Monopitch	20	1	

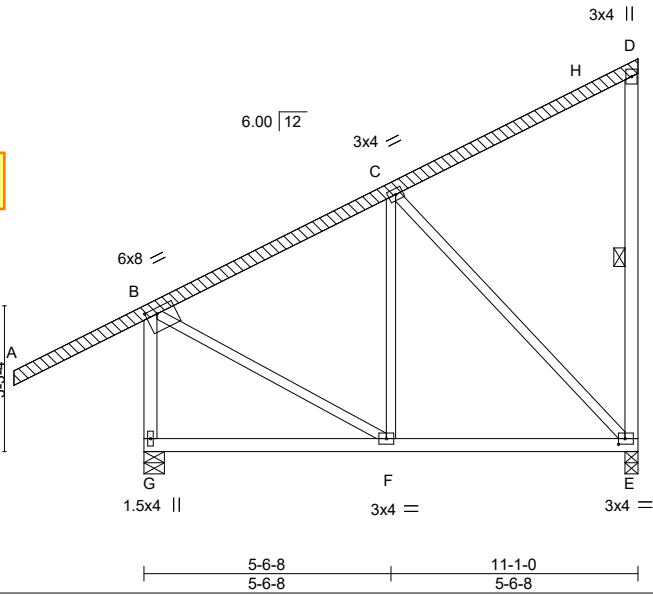
U1530805

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:48 2024 Page 1
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Scale = 1:51.7

PRMU20240283 BLDG D



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.02 E-F	MT20		197/144	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04 E-F				
TCDL	12.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	-0.00 E				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	-0.02 E-F				
BCDL	10.0										

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 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt D-E
	D-E,B-G: 2x4 SPF No.2		
OTHERS	2x4 SPF No.2		
LBR SCAB	A-D 2x4 SPF No.2 one side		

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=274(LC 7)
Max Uplift G=-83(LC 10), E=-103(LC 7)
Max Grav G=817(LC 17), E=629(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-439/35, D-E=-260/51, B-G=-772/107
BOT CHORD F-G=-256/88, E-F=-114/311
WEBS C-E=-443/116, B-F=0/379

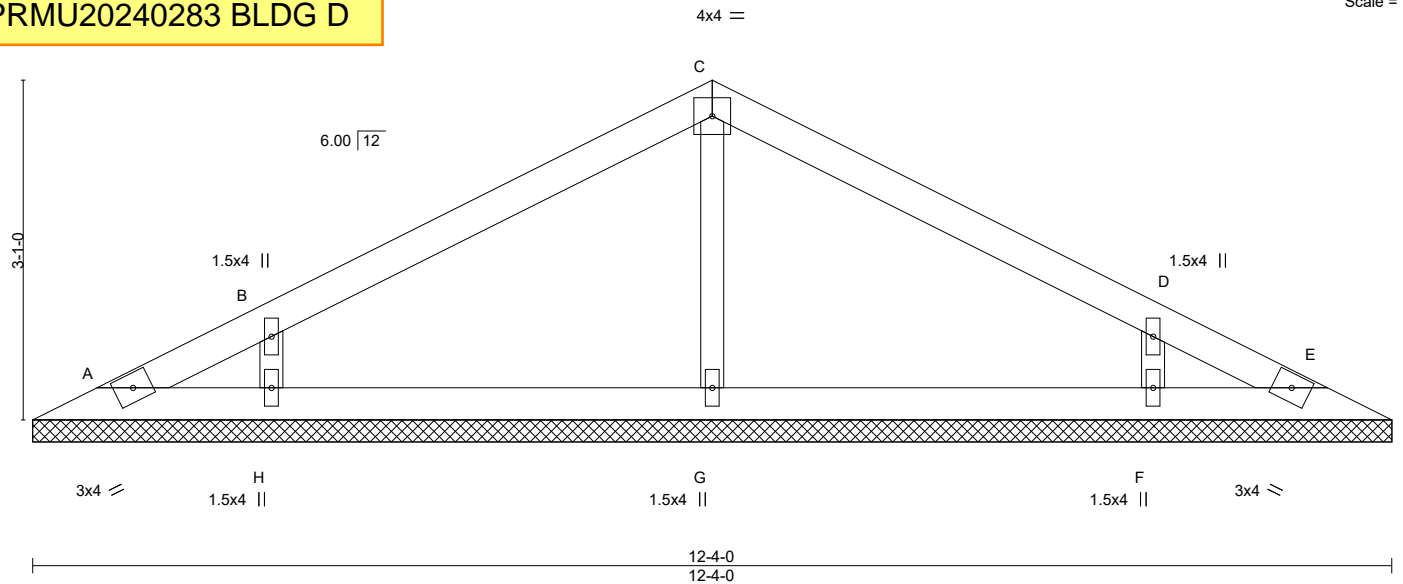
- NOTES-**
- Attached 15-9-9 scab A to D, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-5-1 from end at joint A, nail 1 row(s) at 4" o.c. for 2-0-0; starting at 8-5-8 from end at joint A, nail 1 row(s) at 7" o.c. for 2-0-0; starting at 13-5-14 from end at joint A, nail 1 row(s) at 7" o.c. for 2-0-0.
 - 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
 - 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 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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) G except (jt=lb) E=103.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:29 2024 Page 1
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Scale = 1:20.9



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

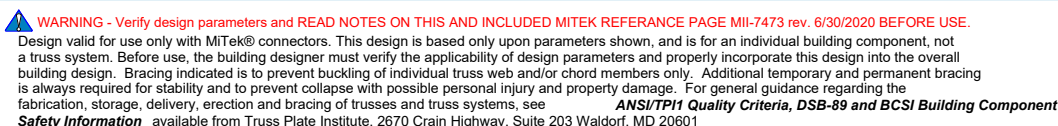
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-438/114, D-F=-438/114

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=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) TC LL: 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, H, F.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

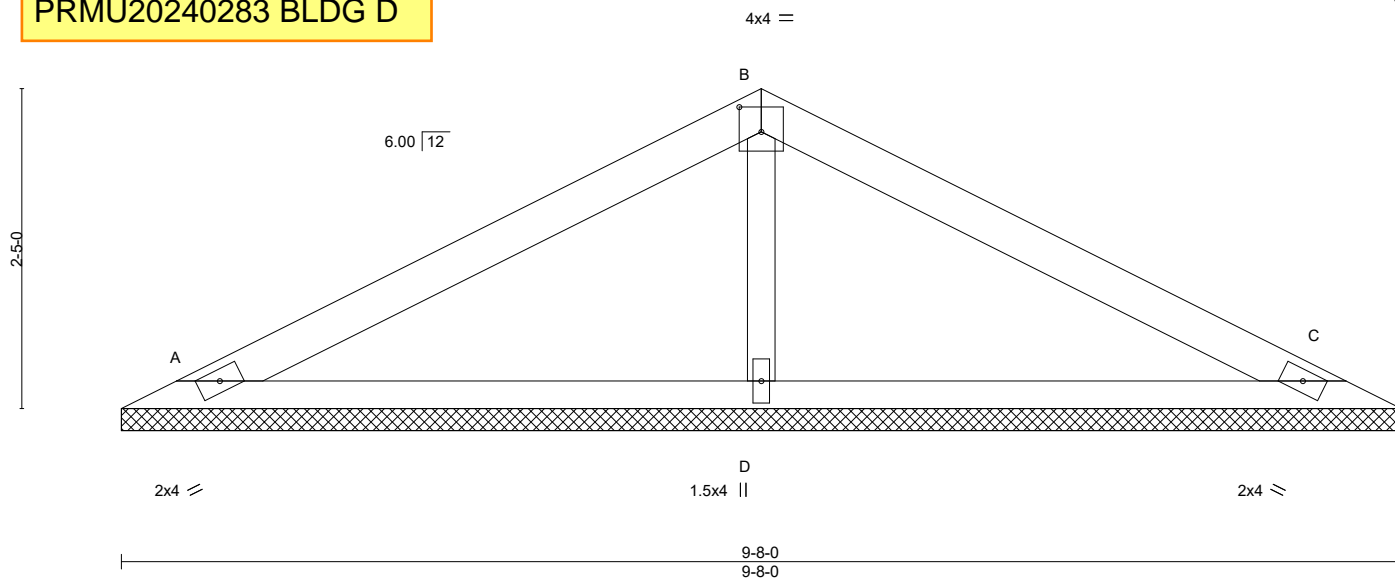


September 12, 2024



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:30 2024 Page 1
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 4-10-0 9-8-0
 4-10-0 4-10-0

Scale = 1:17,4



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

REACTIONS. (size) A=9-8-0, C=9-8-0, D=9-8-0
 Max Horz A=28(LC 14)
 Max Uplift A=-56(LC 10), C=-56(LC 11)
 Max Grav A=423(LC 16), C=423(LC 17), D=206(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-474/94, B-C=-474/94
 BOT CHORD A-D=-60/354, C-D=-60/354

NOTES-

- 1) 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
- 2) TCDL: 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.



September 12, 2024



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

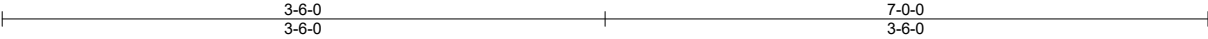


240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530877
N0653A	VG3	Valley	2	1	Job Reference (optional)	

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

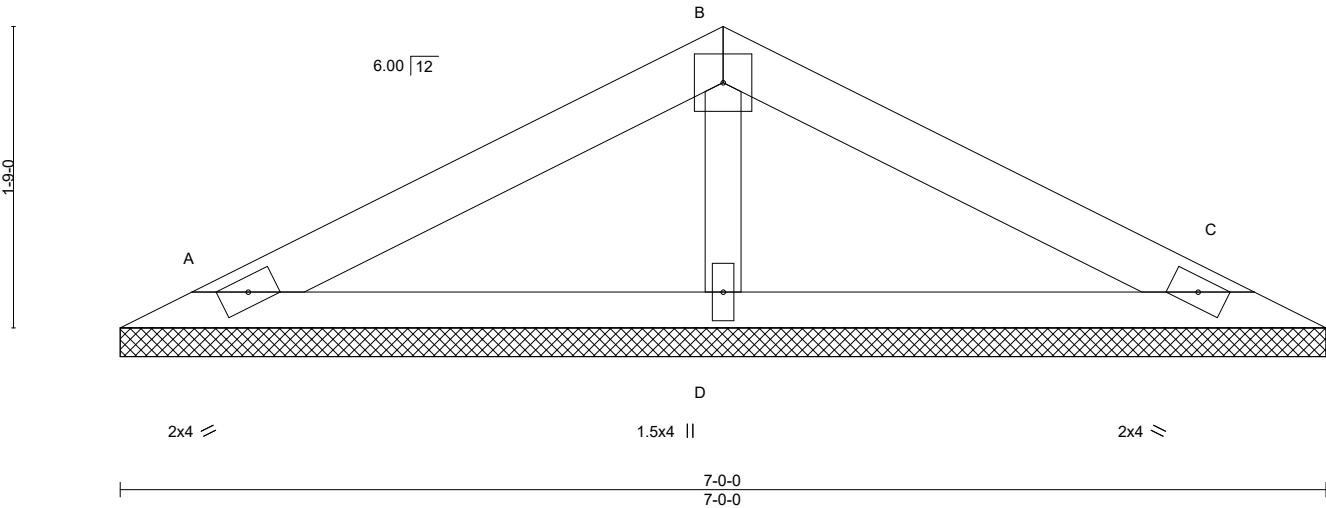
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PRMU20240283 BLDG D

4x4 =

Scale = 1:13.4



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 0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. (size) A=7-0-0, C=7-0-0, D=7-0-0
Max Horz A=19(LC 10)
Max Uplift A=-23(LC 10), C=-27(LC 11)
Max Grav A=188(LC 16), C=188(LC 17), D=269(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.

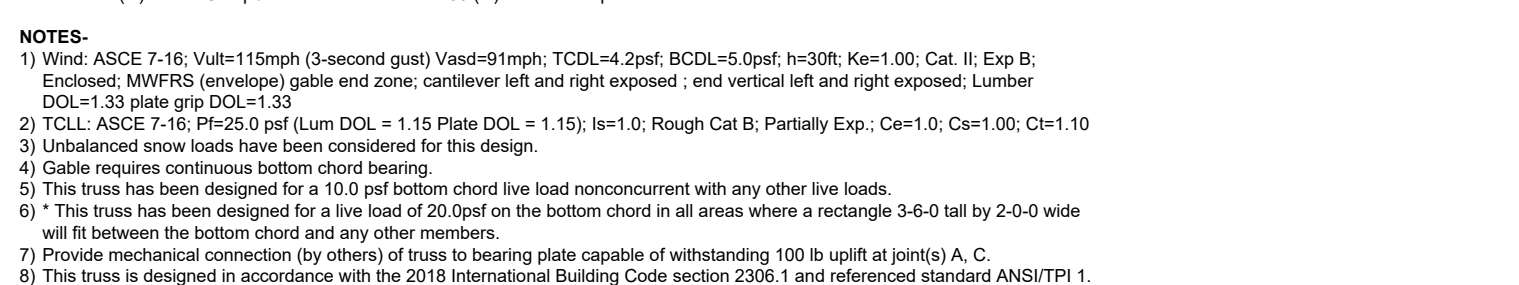


September 12, 2024

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Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:30 2024 Page 1
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 2-2-0 4-4-0
 2-2-0 2-2-0



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



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VH1	Valley	20	1	

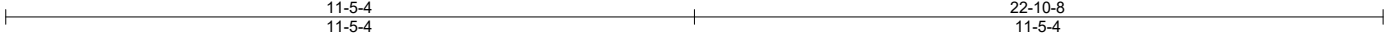
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Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:31 2024 Page 1

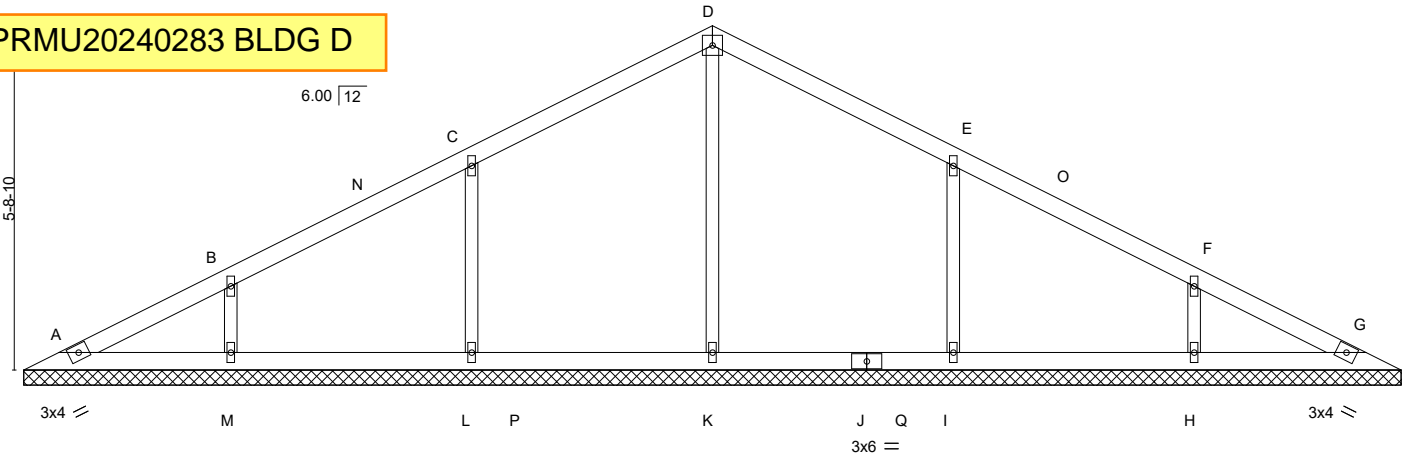
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Job Reference (optional)



Scale = 1:38.3

PRMU20240283 BLDG D



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	2-0-0		TC	0.30	in (loc)	l/defl	L/d			
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.14	Vert(LL)	n/a - n/a	999	MT20	197/144	
TCDL	12.0	Lumber DOL	1.15	WB	0.17	Vert(CT)	n/a - n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		Horz(CT)	0.00 G n/a	n/a			
BCDL	10.0	Code IBC2018/TPI2014							Weight: 65 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

REACTIONS. All bearings 22-10-8.
(lb) - Max Horz A=-71(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) A, L, M, I, H
Max Grav All reactions 250 lb or less at joint(s) A, G except K=403(LC 3), L=551(LC 16), M=357(LC 2), I=551(LC 17), H=357(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-L=-470/129, B-M=-271/106, E-I=-470/129, F-H=-271/106

- 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, L, M, I, H.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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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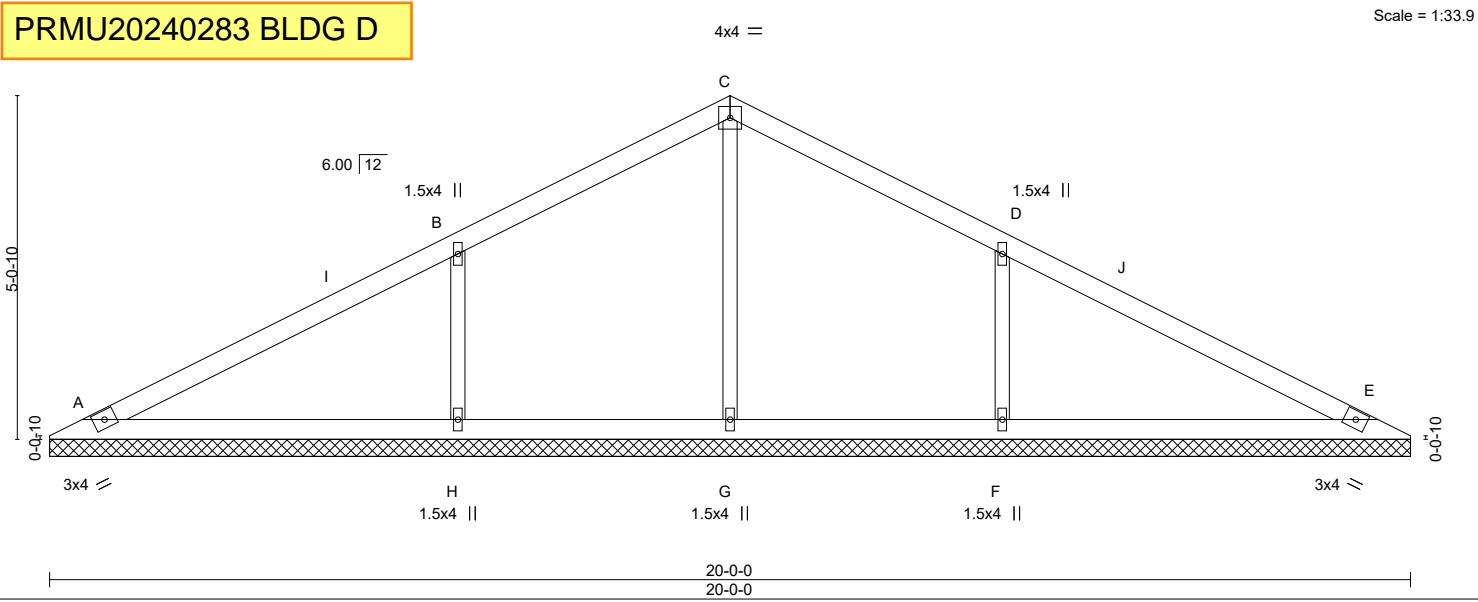
Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530880
N0653A	VH2	Valley	20	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:32 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-NijnMJNYtw5oAkqa7LRK2a5?zK2GzAiNGj8BENyeVqj

10-0-0
10-0-0
20-0-0
10-0-0

PRMU20240283 BLDG D



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
TCDL 12.0	Lumber DOL 1.15	WB 0.14	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz A=62(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-117(LC 10), F=-117(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=704(LC 16), F=704(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-572/165, D-F=-573/165

- 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, E except (jt=lb) H=117, F=117.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530881
N0653A	VH3	Valley	20	1	Job Reference (optional)	

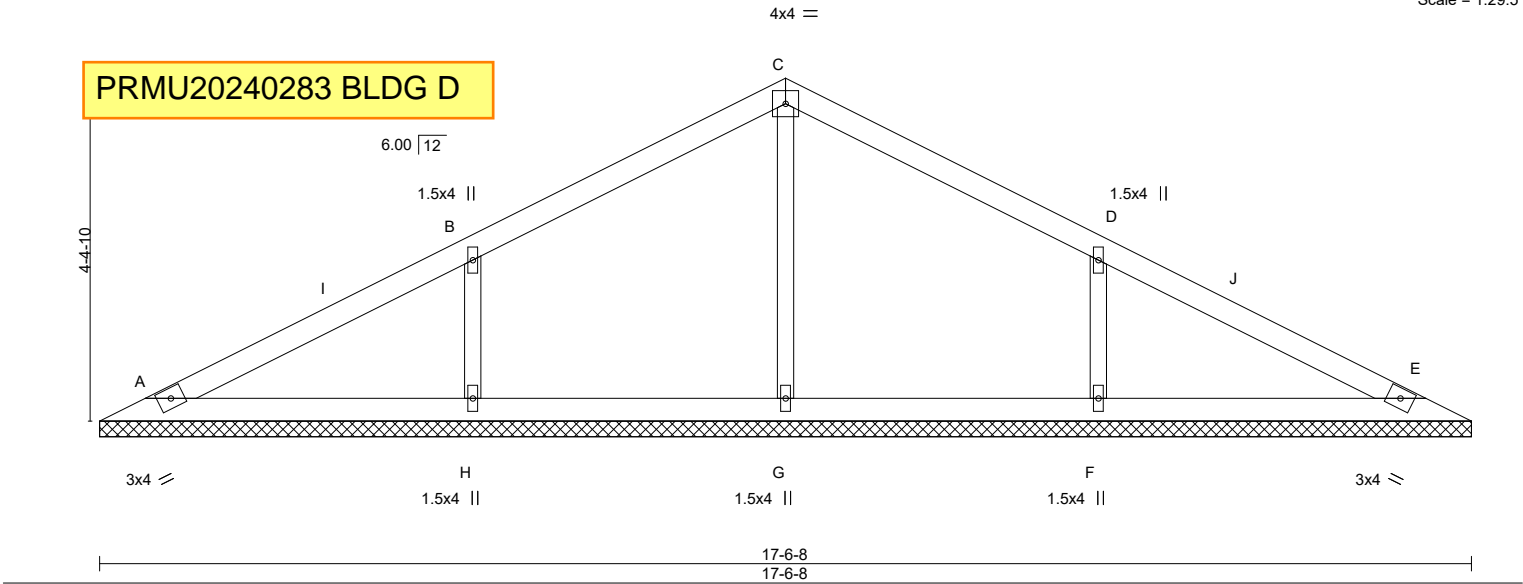
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:32 2024 Page 1
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17-6-8

8-9-4

Scale = 1:29.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.34	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
TCDL 12.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	E	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 47 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 17-6-8.
(lb) - Max Horz A=53(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A, E, H, F
Max Grav All reactions 250 lb or less at joint(s) A, E except G=298(LC 16), H=604(LC 16), F=604(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-502/139, D-F=-502/139

- 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) 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, E, H, F.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VH4	Valley	20	1	

U1530882

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:33 2024 Page 1

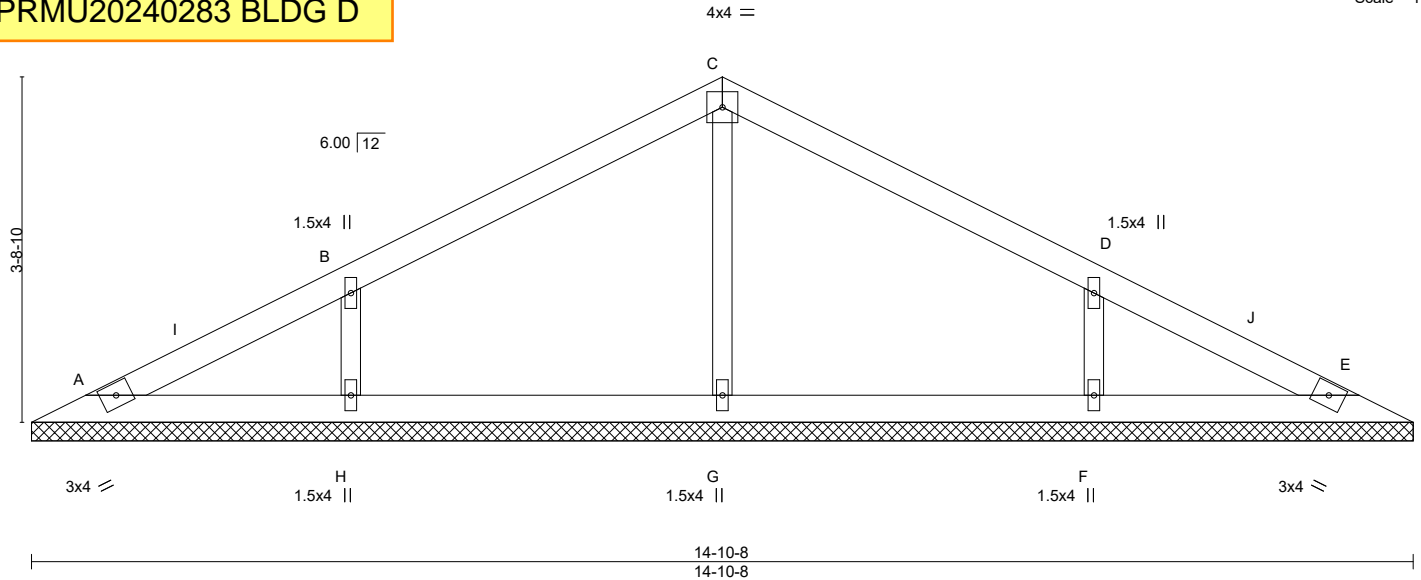
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14-10-8

7-5-4

PRMU20240283 BLDG D

Scale = 1:24.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	E	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 39 lb	FT = 20%

LUMBER-

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

All bearings 14-10-8.

(lb) - Max Horz A=45(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) A, H, F

Max Grav All reactions 250 lb or less at joint(s) A, E except G=326(LC 16), H=526(LC 17), F=526(LC 17)

FORCES.

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

WEBS B-H=-449/119, D-F=-449/119

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, H, F.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024



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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

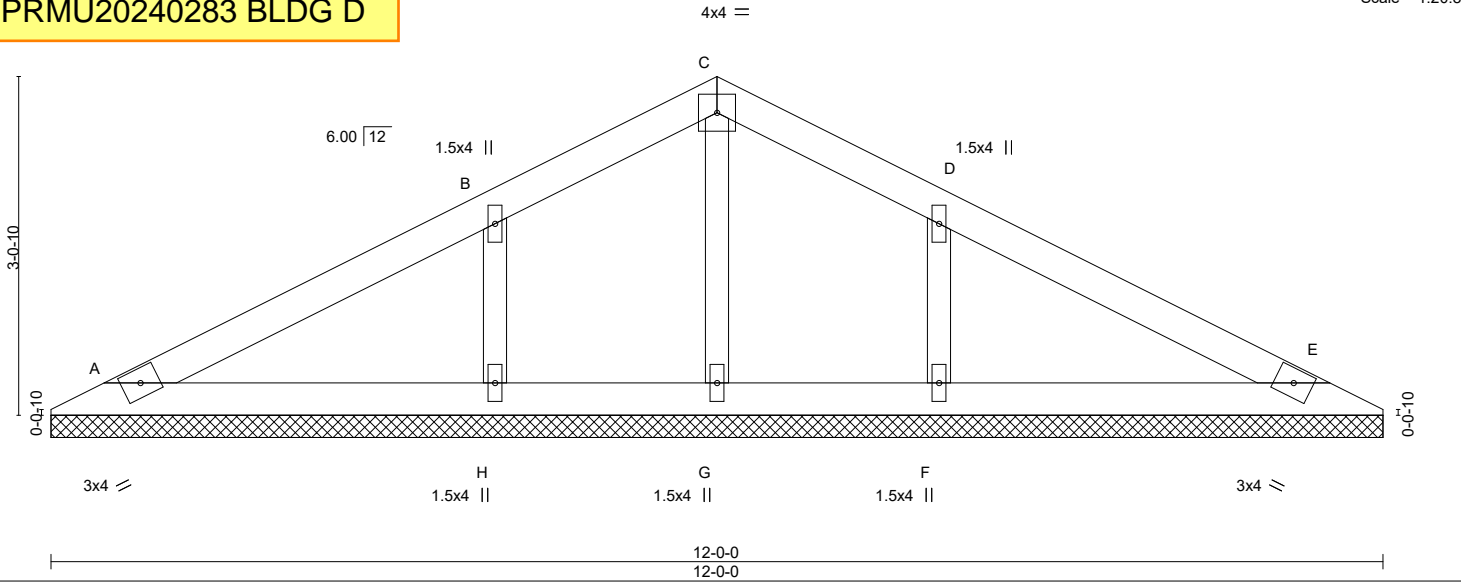
Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530883
N0653A	VH5	GABLE	20	1		

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:33 2024 Page 1

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PRMU20240283 BLDG D



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.08	Vert(LL) n/a - n/a 999		
TCDL 12.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS.
All bearings 12-0-0.
(lb) - Max Horz A=36(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) A, E, H, F
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=483(LC 16), F=483(LC 17)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-391/99, D-F=-391/99

- 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, E, H, F.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530884
N0653A	VH6	Valley	20	1		

Alliance Truss (CA),
Abbotsford, BC - V2S 7P6,
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:34 2024 Page 1
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9-6-8
4-9-4
4-9-4
4-9-4
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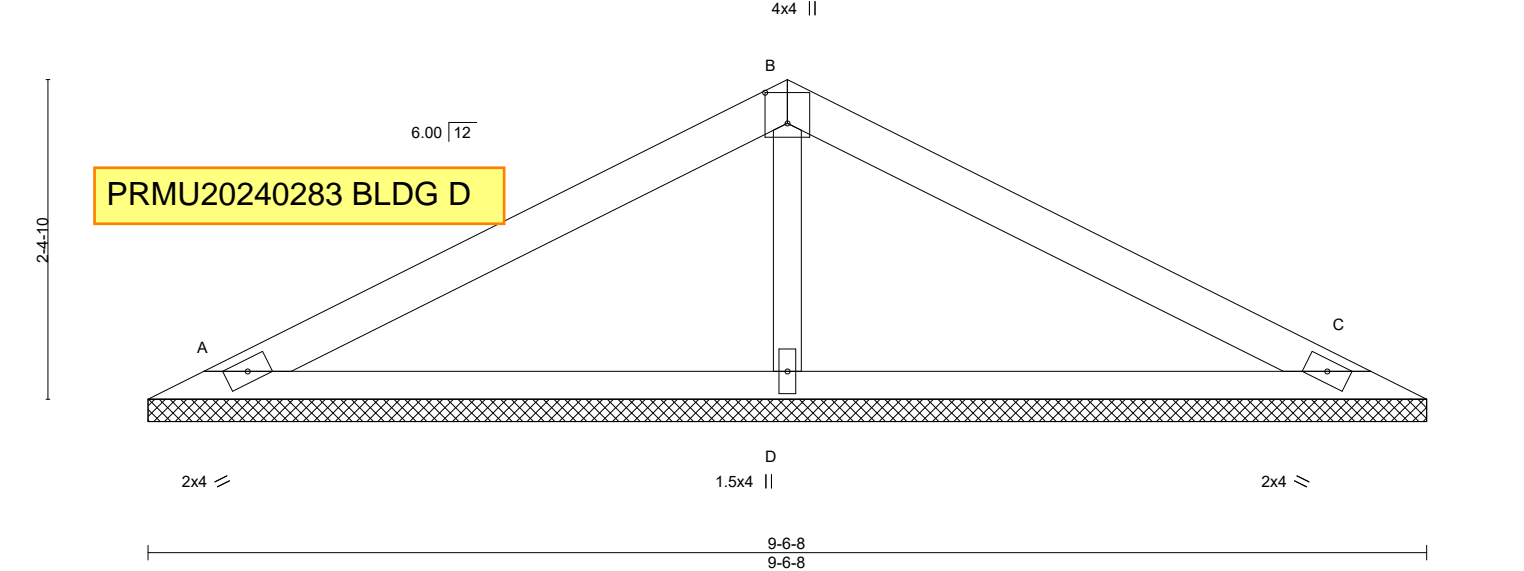


Plate Offsets (X,Y)-- [B:0-2-12,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S				Weight: 20 lb	FT = 20%
BCDL	10.0								

LUMBER-					BRACING-				
TOP CHORD	2x4	SPF	No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.			
BOT CHORD	2x3	SPF	No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
OTHERS	2x3	SPF	No.2						

REACTIONS. (size) A=9-6-8, C=9-6-8, D=9-6-8
Max Horz A=-28(LC 15)
Max Uplift A=-27(LC 10), C=-33(LC 11), D=-12(LC 10)
Max Grav A=262(LC 16), C=262(LC 17), D=424(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-309/57

- 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, D.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

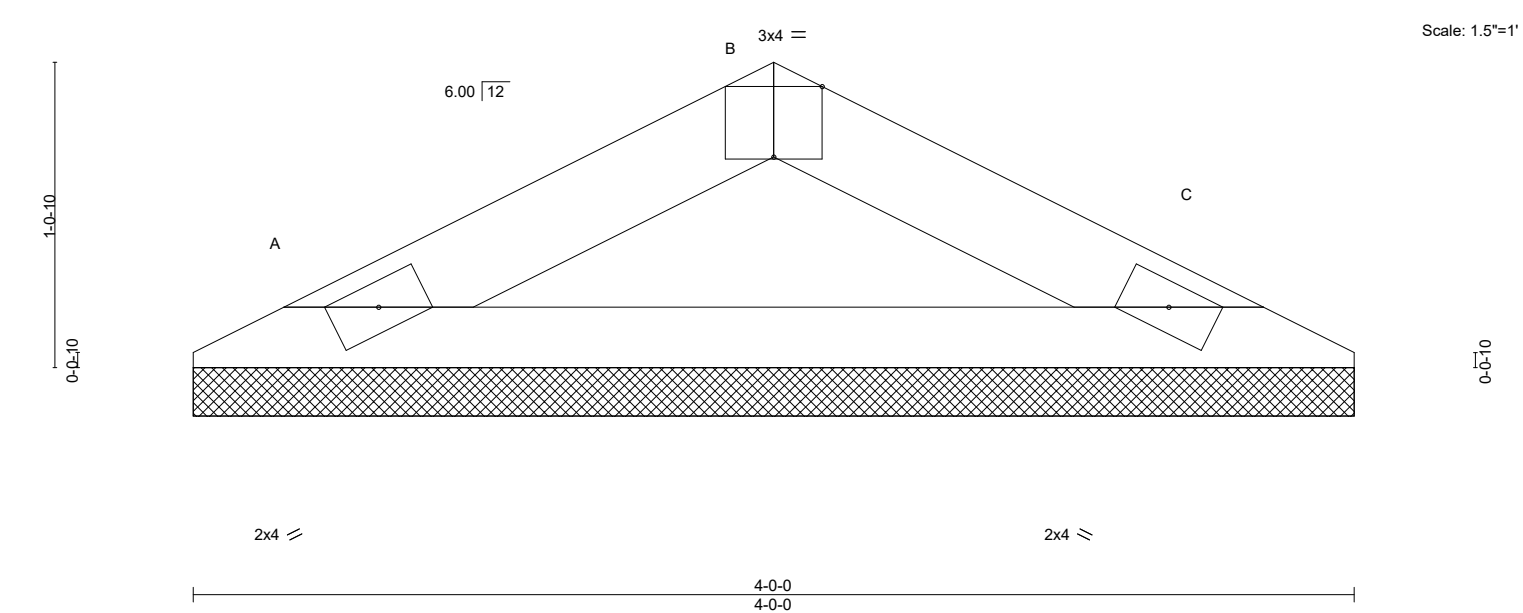


September 12,2024



Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530886
N0653A	VH8	Valley	20	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:34 2024 Page 1
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2-0-0 2-0-0 4-0-0 4-0-0 2-0-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a - n/a	MT20	197/144		
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a - n/a				
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 C n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P							
BCDL	10.0							Weight: 8 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=4-0-0, C=4-0-0
Max Horz A=-10(LC 15)
Max Uplift A=-12(LC 10), C=-12(LC 11)
Max Grav A=159(LC 16), C=159(LC 17)

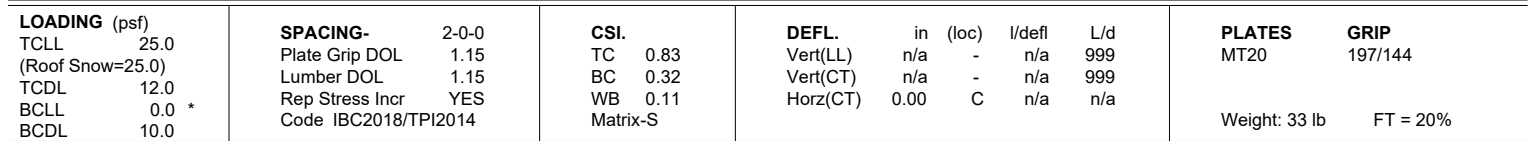
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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.



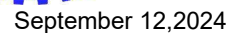
September 12, 2024

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:48 2024 Page 1
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 6-7-14 13-3-12
 6-7-14 6-7-14



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, D.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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

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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530807
N0653A	VR2	Valley	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:48 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f
5-3-14 5-3-14 10-7-12 5-3-14

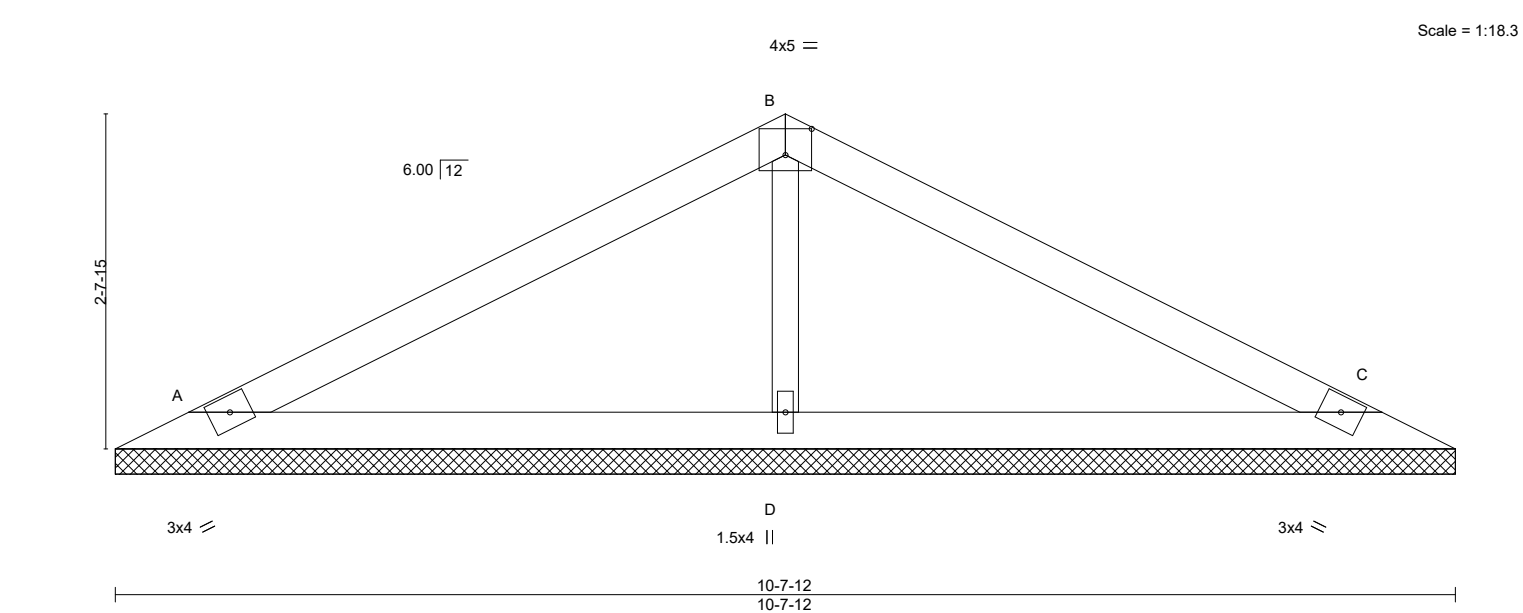


Plate Offsets (X,Y)-- [B:0-2-8,0-2-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a - n/a	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a - n/a		
TCDL	12.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00 C n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S				Weight: 26 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

REACTIONS. (size) A=10-7-12, C=10-7-12, D=10-7-12
Max Horz A=31(LC 14)
Max Uplift A=-29(LC 10), C=-35(LC 11), D=-14(LC 10)
Max Grav A=296(LC 16), C=296(LC 17), D=474(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-329/61

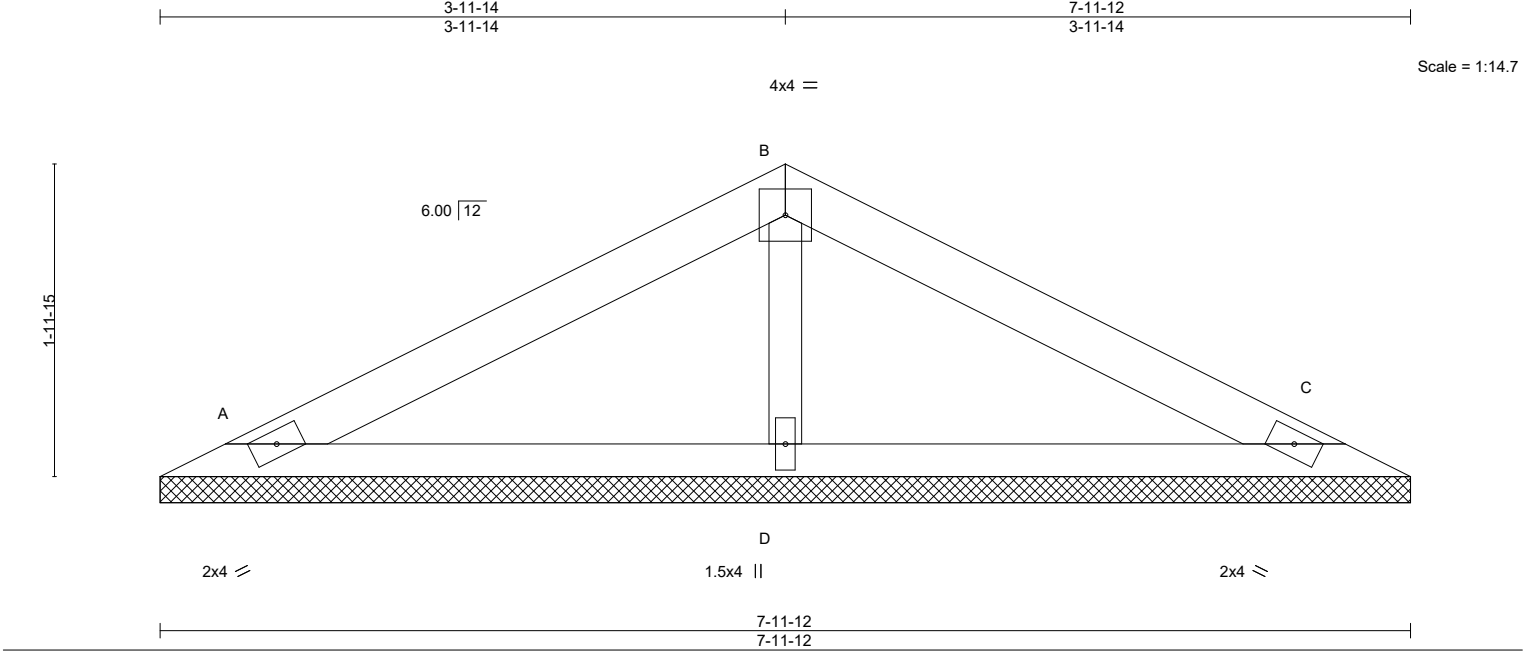
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCCL: ASCE 7-16;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



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530808
N0653A	VR3	Valley	1	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:49 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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 0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. (size) A=7-11-12, C=7-11-12, D=7-11-12
Max Horz A=23(LC 10)
Max Uplift A=-27(LC 10), C=-32(LC 11)
Max Grav A=223(LC 16), C=223(LC 17), D=314(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.



September 12, 2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530809
N0653A	VR4	Valley	1	1	Job Reference (optional)	

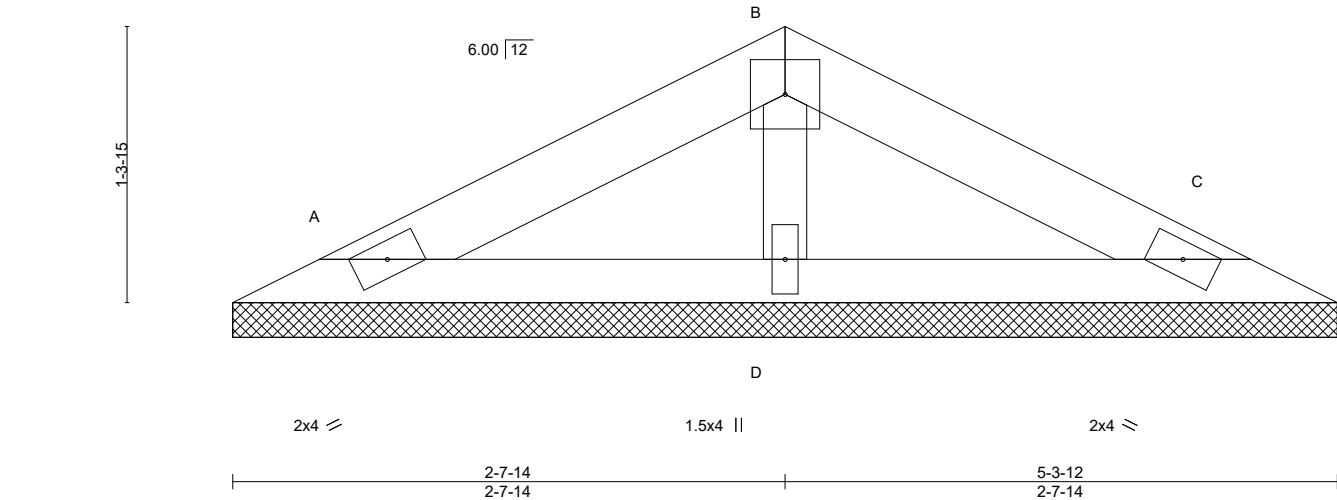
Alliance Truss (CA),
Abbotsford, BC - V2S 7P6,

8.630 s Jul 12 2024
MiTek Industries, Inc.
Thu Sep 12 02:47:49 2024
Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
5-3-12
2-7-14

2-7-14
2-7-14

2-7-14

4x4 =
Scale = 1:11.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	C	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 11 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 5-3-12 oc purlins.
BOT CHORD 2x3 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2			

REACTIONS. (size) A=5-3-12, C=5-3-12, D=5-3-12
Max Horz A=14(LC 14)
Max Uplift A=-17(LC 10), C=-20(LC 11)
Max Grav A=129(LC 16), C=129(LC 17), D=193(LC 1)

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

- 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) A, C.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

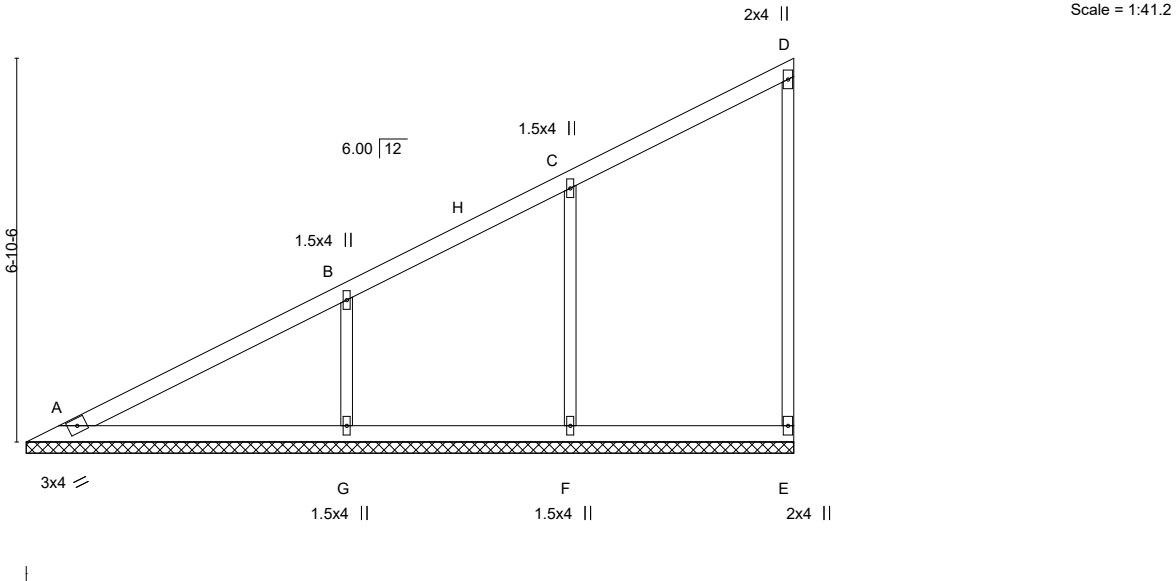


September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530887
N0653A	VU1	Valley	20	1	Job Reference (optional)	

Alliance Truss (CA),
Abbotsford, BC - V2S 7P6,
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:35 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-oHOw?kQrARuM1BZ9oU?1gCjY7X45AWypyhMriyeVqg



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.34	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
TCDL 12.0	Lumber DOL 1.15	WB 0.23	Horz(CT)	-0.00	E	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 43 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.
WEBS 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 13-8-13.
 (lb) - Max Horz A=201(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) E, F except G=-103(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) A, E except F=528(LC 3), G=509(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-F=-446/107, B-G=-381/150

- 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F except (jt=lb) G=103.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



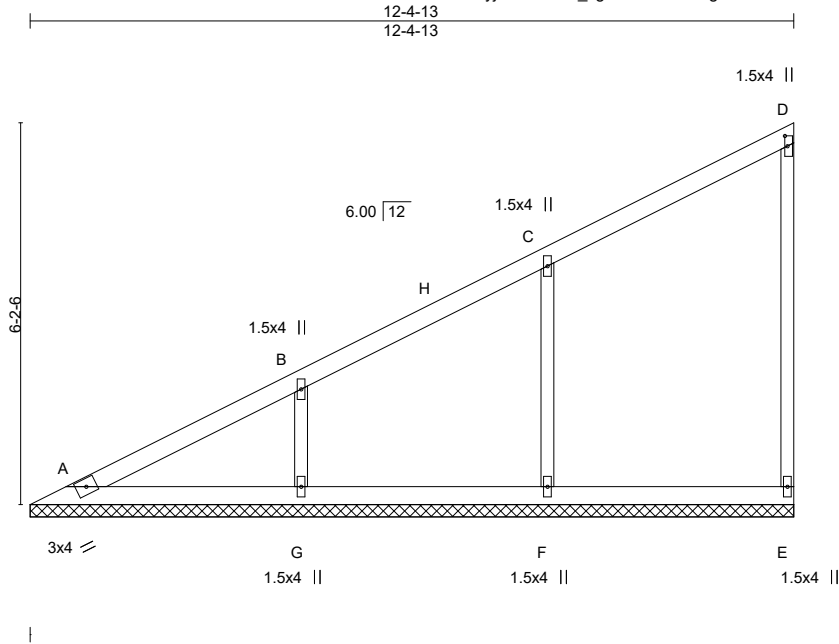
September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VU2	Valley	20	1	

U1530888

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:35 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFIgc-oH0w?kQARaUM1BZ9oU?1gCjZjX5wAXjpyhMriyeVqg



Scale = 1:37.4

Plate Offsets (X,Y)--		[D:0-2-0,0-0-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL 25.0		Plate Grip DOL	1.15
(Roof Snow=25.0)		Lumber DOL	1.15
TCDL 12.0		Rep Stress Incr	YES
BCLL 0.0 *		Code IBC2018/TPI2014	
BCDL 10.0			
		CSI.	
		TC 0.30	
		BC 0.14	
		WB 0.18	
		Matrix-S	
		DEFL.	
		Vert(LL) n/a - n/a 999	
		Vert(CT) n/a - n/a 999	
		Horz(CT) -0.00 E n/a n/a	
		PLATES	GRIP
		MT20	197/144
		Weight: 38 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.
WEBS 2x3 SPF No.2			
OTHERS 2x3 SPF No.2			

REACTIONS. All bearings 12-4-13.
(lb) - Max Horz A=180(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) E, F, G
Max Grav All reactions 250 lb or less at joint(s) A, E except F=562(LC 3), G=409(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-469/118, B-G=-310/123

- 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F, G.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

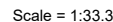


September 12, 2024

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



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:36 2024 Page 1
ID:hFyjDMxrTsEk_kgkR0vWWWzFlgc-GUylC4Q3x8cDeL8LMBWGQCQFkExRHV_eyBL6ON9yeVqf



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	
WEBS	2x3 SPF No.2		Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x3 SPF No.2		

REACTIONS. All bearings 11-0-0.
(lb) - Max Horz A=159(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) E, F, G
Max Grav All reactions 250 lb or less at joint(s) A, E except F=569(LC 16), G=333(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-481/125. B-G=-256/103

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) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F, G.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024



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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

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VU4	Valley	20	1	

U1530890

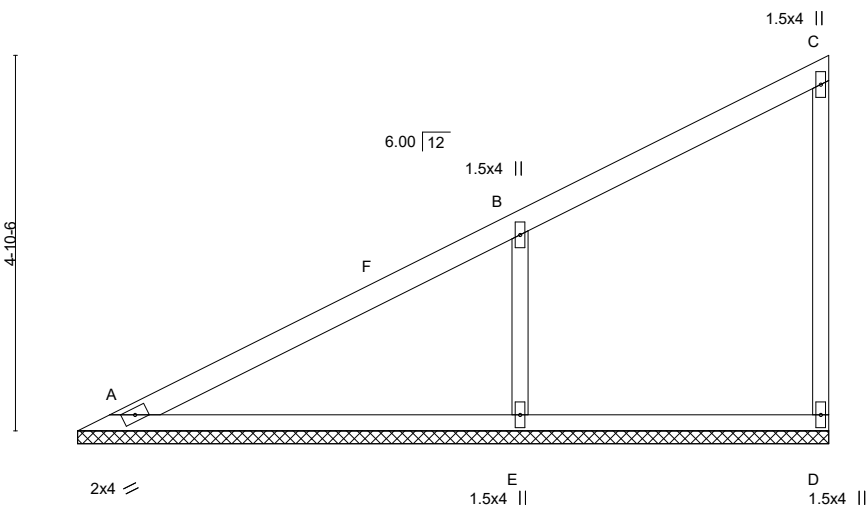
Alliance Truss (CA), Abbotsford, BC - V2S 7P6,

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:36 2024 Page 1

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9-8-13

9-8-13



Scale = 1:29.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.46	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.35	Vert(CT)	n/a	-	n/a		
TCDL 12.0	Lumber DOL 1.15	WB 0.13	Horz(CT)	-0.00	D	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 25 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 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) A=9-8-13, D=9-8-13, E=9-8-13
Max Horz A=140(LC 7)
Max Uplift D=-19(LC 7), E=-110(LC 10)
Max Grav A=198(LC 16), D=182(LC 16), E=688(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=-571/157

- 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) D except (jt=lb) E=110.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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



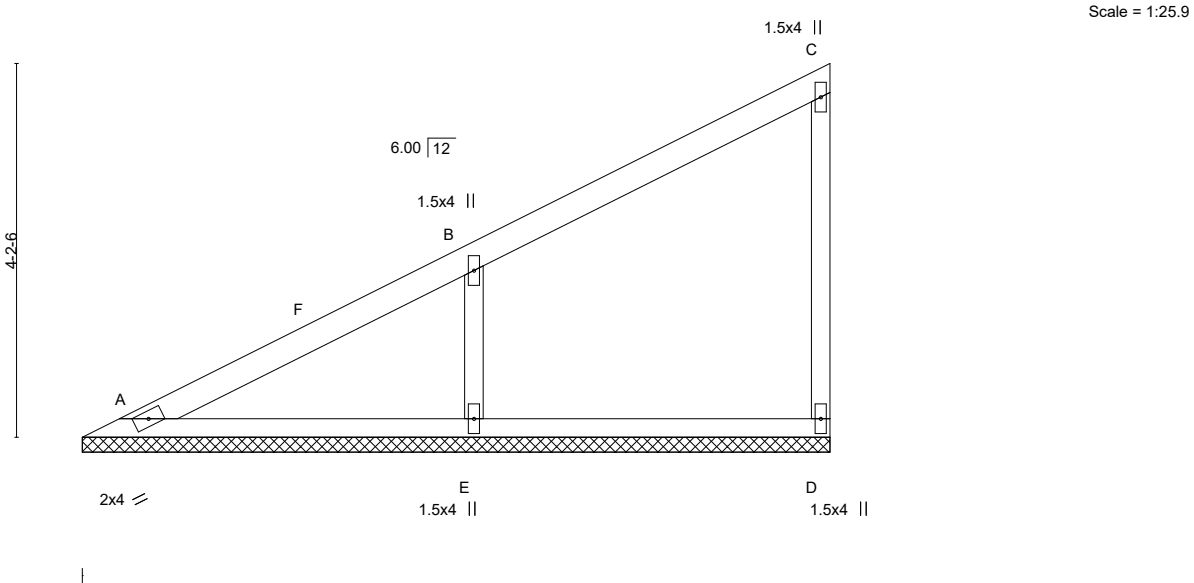
Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VU5	Valley	20	1	U1530891

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

8.820 s Aug 30 2024
MiTek Industries, Inc.
Thu Sep 12 02:48:37 2024
Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFIgc-kgWgPQRhhSk4GVjXvv1VldouPLmoëSW6P?ryvbyeVqe

8-4-13
8-4-13



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 0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.25	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	D	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						Weight: 21 lb	FT = 20%
BCDL 10.0										

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 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) A=8-4-13, D=8-4-13, E=8-4-13
Max Horz A=120(LC 7)
Max Uplift D=-19(LC 7), E=-94(LC 10)
Max Grav A=136(LC 16), D=199(LC 16), E=607(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=-510/142

- 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) 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) D, E.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

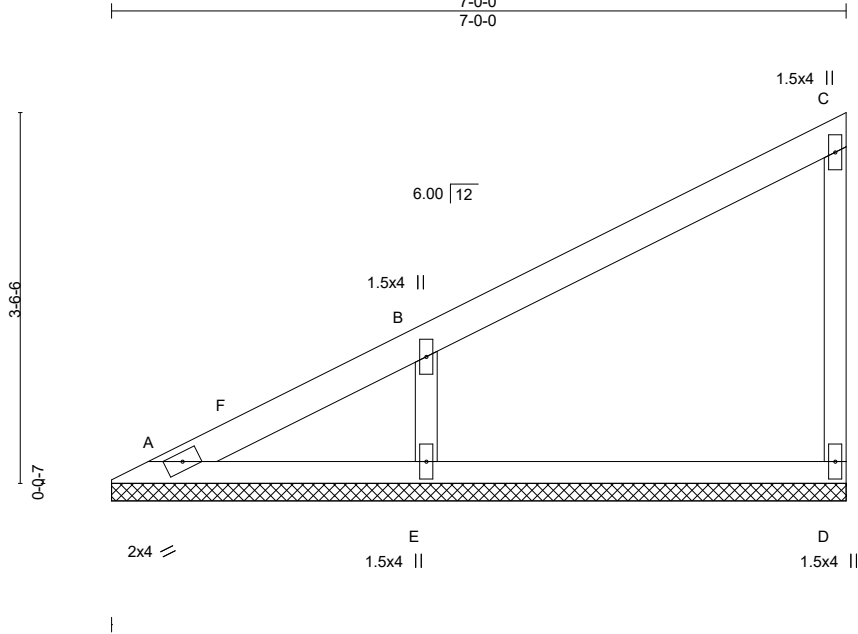


September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VU6	Valley	20	1	

U1530892

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:37 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-kgWgPQRhhSk4GVjXvv1VldovHLMoeSm6P?ryvbyeVqe



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	n/a	-	n/a		
TCDL 12.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	-0.00	D	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 17 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 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS.	(size)
	A=7-0-0, D=7-0-0, E=7-0-0
	Max Horz A=99(LC 7)
	Max Uplift D=-19(LC 10), E=-81(LC 10)
	Max Grav A=74(LC 20), D=209(LC 16), E=543(LC 16)

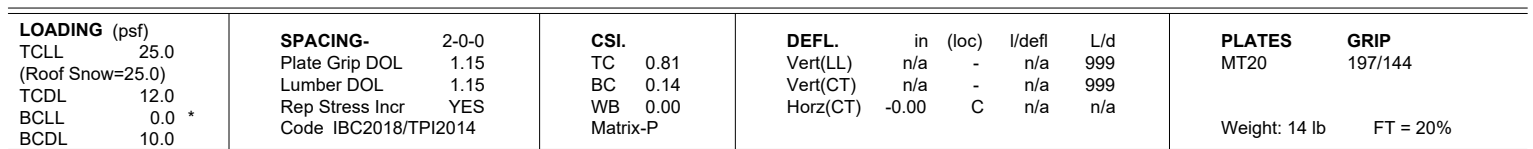
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	B-E=-460/122

- 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) D, E.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:38 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-Cs43dmSJSmsxufHkTcYklrLy6l7INwJFebVVS1yeVqd
5-8-13
5-8-13



REACTIONS. (size) A=5-8-13, C=5-8-13, D=5-8-13
 Max Horz A=79(LC 9)
 Max Uplift A=-33(LC 10), C=-61(LC 10)
 Max Grav A=311(LC 16), C=294(LC 16), D=134(LC 5)

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.



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

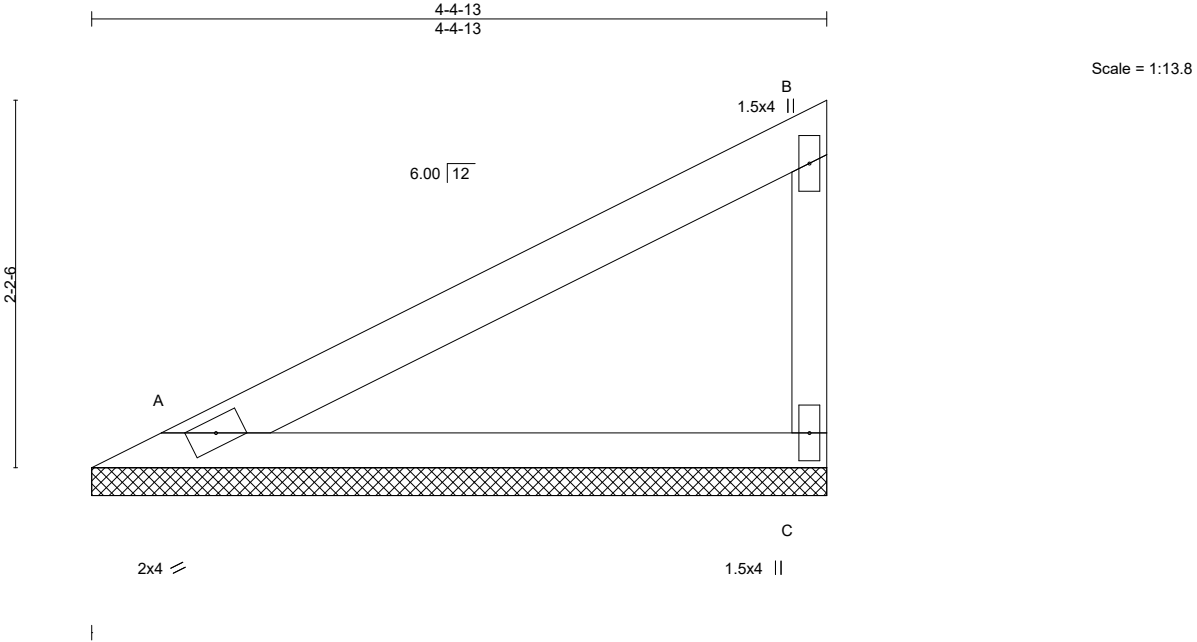
Design valid for use only with MiteTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VU8	Valley	20	1	U1530894

Alliance Truss (CA),
Abbotsford, BC - V2S 7P6,
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:38 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-Cs43dmSJSmsxufHkTcYkrlrL2SI5KNwJFeebVS1yeVqd



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 0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.29	Vert(CT)	n/a	-	n/a	999		
TCDL 12.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals.
BOT CHORD 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS.

(size)
A=4-4-13, C=4-4-13
Max Horz A=58(LC 9)
Max Uplift A=-15(LC 10), C=-29(LC 10)
Max Grav A=239(LC 16), C=239(LC 16)

FORCES.

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

- NOTES-**

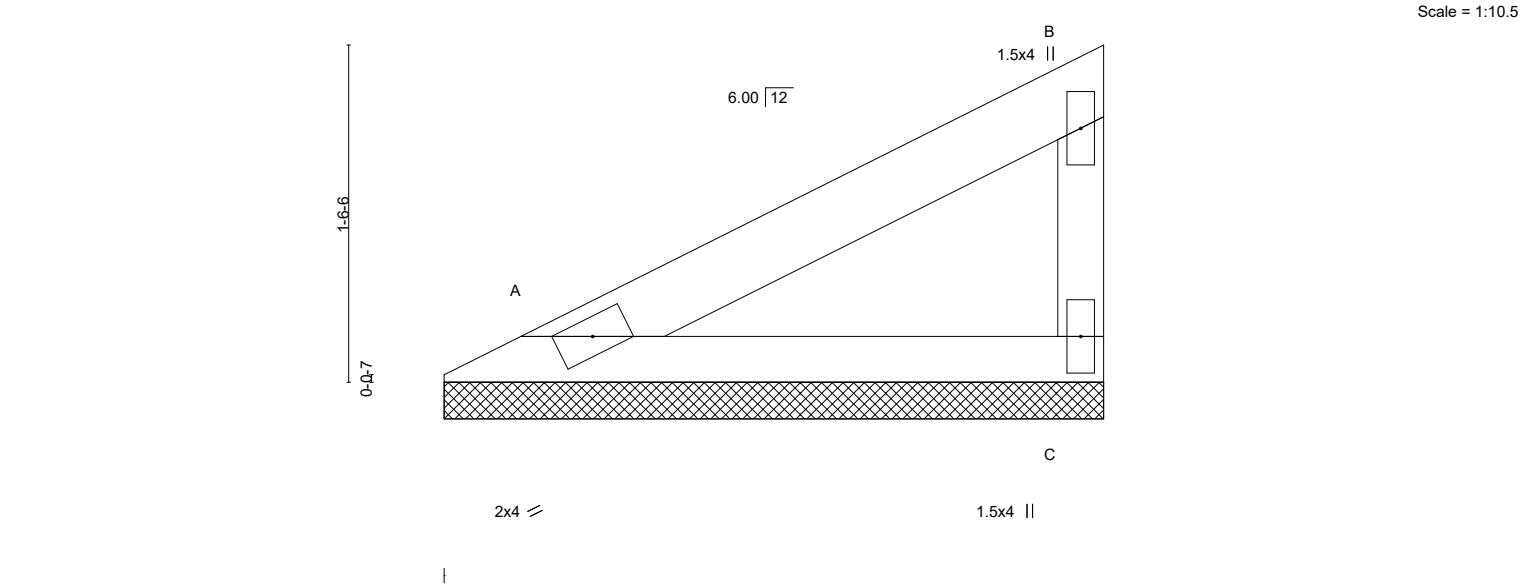
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (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.



Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	VU9	Valley	20	1	U1530895

Alliance Truss (CA),
Abbotsford, BC - V2S 7P6,
8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:38 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFfgc-Cs43dmSJSmsxufHkTcYkIrL6RI86NwJFeebVS1yeVqd
3-0-0
3-0-0



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 0.15	Vert(LL)	n/a -	n/a	999	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a -	n/a	999		
TCDL 12.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 C	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 7 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.
BOT CHORD 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) A=3-0-0, C=3-0-0
Max Horz A=37(LC 7)
Max Uplift A=-10(LC 10), C=-19(LC 10)
Max Grav A=147(LC 16), C=147(LC 16)

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

- 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) A, C.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	W1	GABLE	10	1	U1530810

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:50 2024 Page 1

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

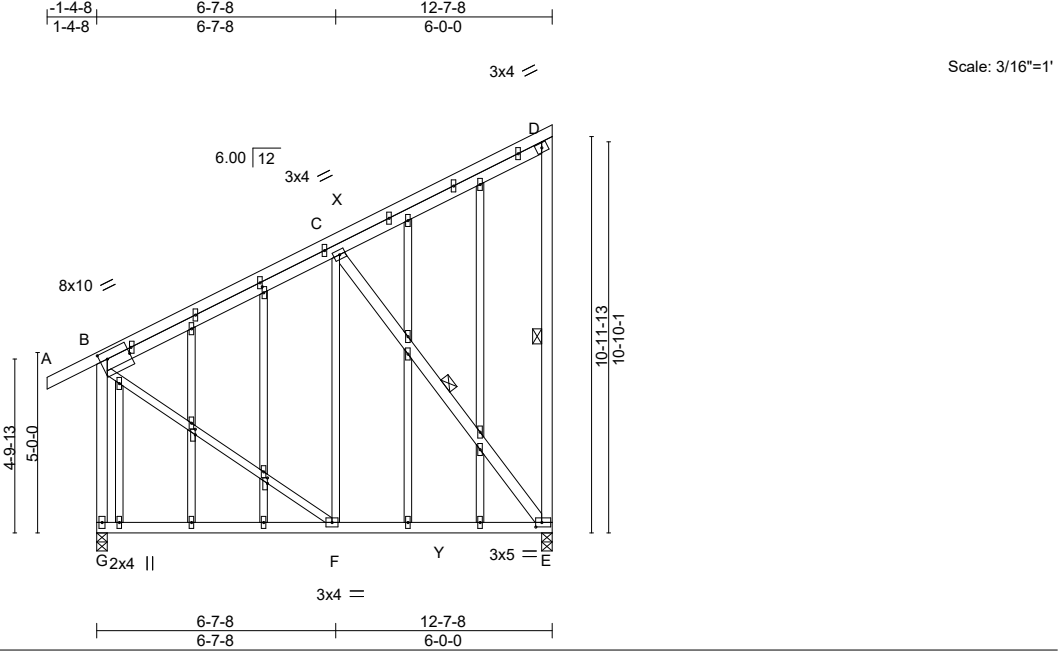


Plate Offsets (X,Y)--	[B:0-2-0,0-0-7], [B:0-2-8,0-2-8], [E:0-2-0,0-1-8], [P:0-1-13,0-0-0], [Q:0-2-0,0-0-8], [S:0-1-13,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.05	E-F	>999	360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.09	F-G	>999	240		
TCDL 12.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	-0.01	E	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	-0.04	E-F	>999	240		
BCDL 10.0									Weight: 115 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 6-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt D-E, C-E
C-F,B-F: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) G=0-3-8, E=0-3-8
Max Horz G=323(LC 7)
Max Uplift G=-60(LC 10), E=-141(LC 7)
Max Grav G=754(LC 21), E=741(LC 3)

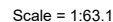
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-469/36, D-E=-273/56, B-G=-689/88
BOT CHORD F-G=-299/136, E-F=-140/347
WEBS C-E=-544/134, B-F=-19/443

- 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) G except (jt=lb) E=141.
 - 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 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.



September 12,2024

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:51 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWWzF1gc-RfC?PsB70Hq3NSgPqnL8w3u1TXbGKWrCDoi7J4zJC?



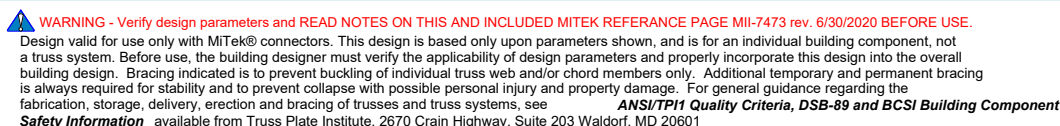
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt D-E, C-F, C-E
	B-F: 2x3 SPF No.2		
OTHERS	2x4 SPF No.2		
LBR SCAB	A-D 2x4 SPF No.2 one side		

REACTIONS. (size) G=0-5-8, E=0-3-8
 Max Horz G=345(LC 7)
 Max Uplift G=-.79(LC 10), E=-.175(LC 7)
 Max Grav G=.817(LC 17), E=.637(LC 3)

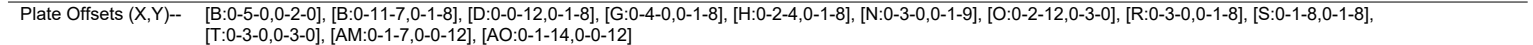
TOP CHORD B-C=-356/37, D-E=-261/53, B-G=-774/103
BOT CHORD F-G=-322/137, E-F=-153/251
WEBS C-E=-408/155, B-F=-19/412

NOTES-

- 1) Attached 15-9-9 scab A to D, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 2'-5.1 from end at joint A, nail 1 row(s) at 4" o.c. for 2'-0-0; starting at 8'-5.8 from end at joint A, nail 1 row(s) at 7" o.c. for 2'-0-0; starting at 13'-5.14 from end at joint A, nail 1 row(s) at 7" o.c. for 2'-0-0.
- 2) 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
- 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) 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) E=175.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:52 2024 Page 1
 ID:hFyjDMxrTsEk_kgkR0vWWWzFfgc-Rfc?PsB70Hq3NSgPqnL8w3ulTXbGKWRCD0i7J4zJC?f
 1-4-8 6-1-12 12-1-14 18-5-6 24-7-3 30-11-8
 1-4-8 6-1-12 6-0-2 6-3-8 6-1-13 6-4-5



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 2-10-8 oc bracing.
	D-S,G-S: 2x3 SPF No.2	WEBS	1 Row at midpt I-J, D-T, G-O, H-O, G-R
OTHERS	2x3 SPF No.2		2 Rows at 1/3 pts H-J


REACTIONS. All bearings 12-6-0 except (jt=length) B=0-5-8, T=0-5-8.
(lb) - Max Horz B=695(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) K except J=-2155(LC 35), B=-586(LC 32), T=-1144(LC 40), O=-921(LC 40), R=-2317(LC 40)
Max Grav All reactions 250 lb or less at joint(s) K, L, M, N, P except J=2110(LC 52), B=797(LC 29), T=1707(LC 29), O=1235(LC 29), R=2529(LC 53), R=700(LC 1)

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

TOP CHORD	B-C=-1550/1315, C-D=-1718/1614, D-G=-1364/1148, G-H=-939/899, H-I=-1746/1646, I-J=-309/54
BOT CHORD	B-T=-1524/1369, S-T=-3197/3234, R-S=-3728/3621, P-R=-3669/3594, O-P=-2209/2069, N-O=-3404/3316, M-N=-3160/3072, L-M=-1972/1883, K-L=-755/695, J-K=-1755/1667
WEBS	C-T=-462/160, D-T=-2219/2062, D-S=-634/643, G-S=-591/956, G-O=-2560/2584, H-O=-3058/2973, H-J=-2599/2671, G-R=-2457/2311

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 MT20 plates unless otherwise indicated.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) L=2155 R=586 T=1144 O=921 R=2317




September 12,2024




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Continued on page 2

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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. Building design is to prevent buckling of individual truss web and 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

 240 Stirling Crescent
Baltimore, MD 2115

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	X1	GABLE	8	1	U1530812

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:52 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- NOTES-**
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 13) 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 18-5-8 to 30-11-8 for 594.4 plf.
 - 14) No notches allowed in overhang and 10408 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.

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: B-M.
	D-L,F-L,F-J,G-J: 2x3 SPF No.2	WEBS	1 Row at midpt H-I, D-M, G-I

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

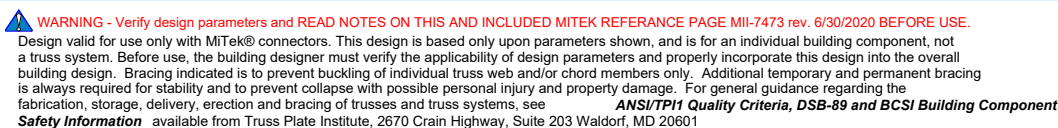
TOP CHORD	D-F=-1555/160, F-G=-1151/138, H-I=-301/52
BOT CHORD	B-M=-285/0, L-M=-188/1346, J-L=-147/1312, I-J=-112/834
WEBS	C-M=-473/153, D-M=-1830/189, F-J=-549/154, G-J=-51/847, G-I=-1360/201

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 3x4 MT20 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (it=lb) I=169, M=195.
- 9) 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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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530896
N0653A	X3	Roof Special	8	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:39 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-g3eRq6TxD3_oVosw1J3zq2t4x9Gj6CjPtIK2_TyeVqc
23-0-1 7-5-13 30-8-6 7-8-5

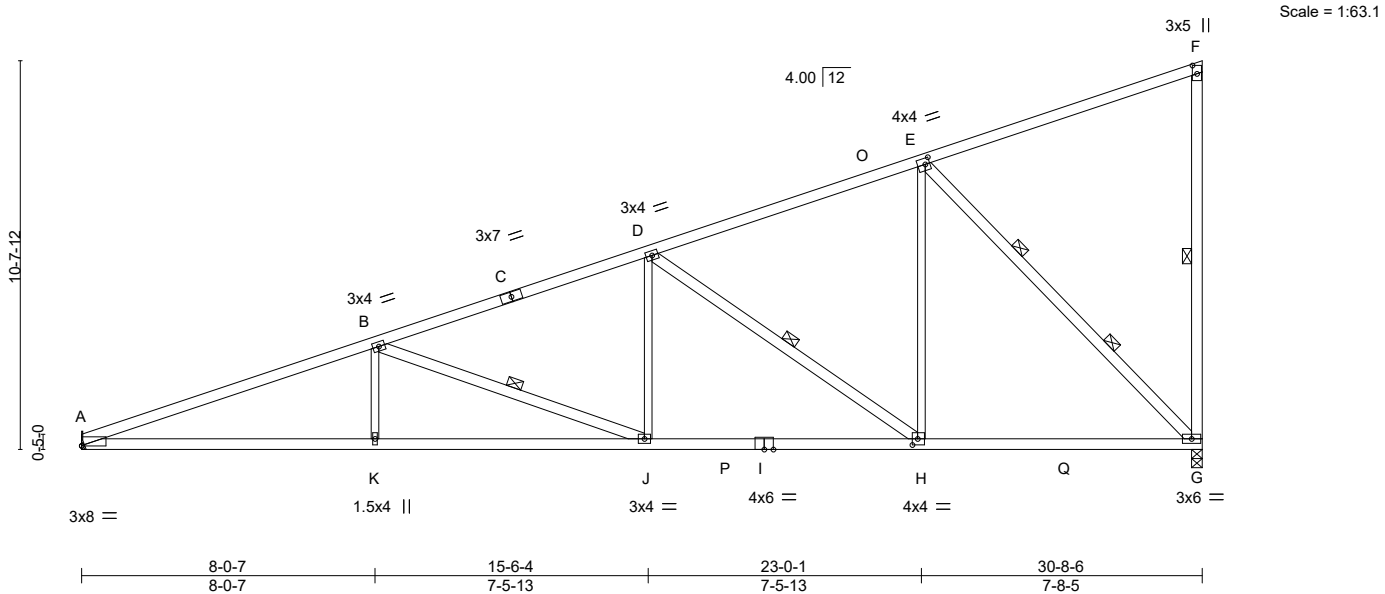


Plate Offsets (X,Y)--	[A:0-0-0,0-0-2], [E:0-1-8,0-2-0], [F:0-2-12,0-1-8], [H:0-1-12,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.22	J-K	>999	360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.40	J-K	>924	240		
TCDL 12.0	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.11	G	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	0.10	K-N	>999	240	Weight: 127 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except* A-C: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E *Except* G-I: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: H-J.
WEBS 2x4 SPF No.2 *Except* B-K,D-J,E-H: 2x3 SPF No.2	WEBS 1 Row at midpt F-G, B-J, D-H 2 Rows at 1/3 pts E-G

REACTIONS. (size) G=0-3-8, A=Mechanical
Max Horz A=338(LC 9)
Max Uplift G=-207(LC 10), A=-156(LC 6)
Max Grav G=1753(LC 3), A=1524(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3682/372, B-D=-2548/265, D-E=-1444/167, F-G=-367/63
BOT CHORD A-K=-451/3429, J-K=-451/3429, H-J=-273/2347, G-H=-118/1309
WEBS B-K=0/317, B-J=-1155/190, D-J=0/652, D-H=-1291/206, E-H=-48/1084, E-G=-1856/257

- 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, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=207, A=156.
 - 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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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





Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530814
N0653A	X4	Monopitch	48	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:53 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

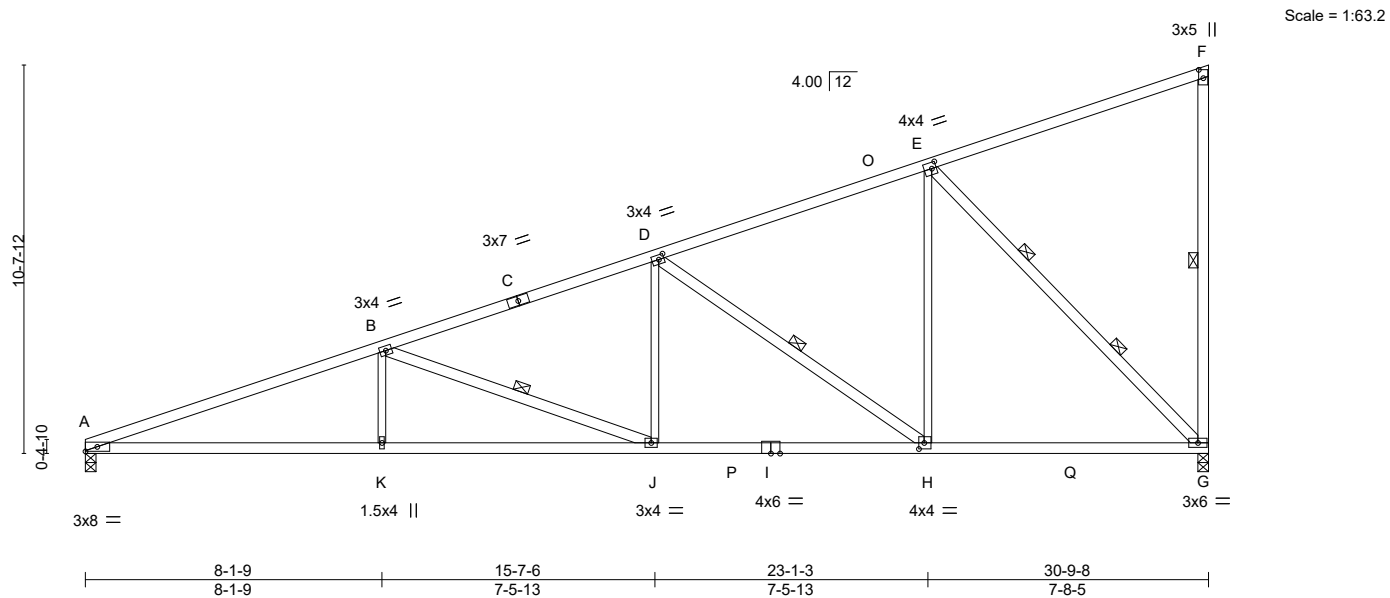


Plate Offsets (X,Y)--	[D:0-1-12,0-1-8], [E:0-1-8,0-2-0], [F:0-2-12,0-1-8], [H:0-1-12,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.21	J-K	>999	360	MT20	197/144
TCDL 12.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.37	J-K	>988	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.11	G	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.10	K-N	>999	240	Weight: 127 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SPF No.2 *Except*	2-2-0 oc bracing: H-J.
B-K,D-J,E-H: 2x3 SPF No.2	WEBS 1 Row at midpt F-G, B-J, D-H
	2 Rows at 1/3 pts E-G

REACTIONS.	(size) G=0-3-8, A=0-3-8
Max Horz A=338(LC 9)	
Max Uplift G=-208(LC 10), A=-156(LC 6)	
Max Grav G=1759(LC 3), A=1529(LC 3)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-B=-3734/377, B-D=-2562/267, D-E=-1449/167, F-G=-367/63
BOT CHORD	A-K=-457/3482, J-K=-457/3482, H-J=-274/2358, G-H=-118/1314
WEBS	B-K=0/325, B-J=-1199/195, D-J=0/664, D-H=-1298/206, E-H=-49/1089, E-G=-1864/258

- 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=208, A=156.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12, 2024

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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Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530815
N0653A	X5	GABLE	8	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:55 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

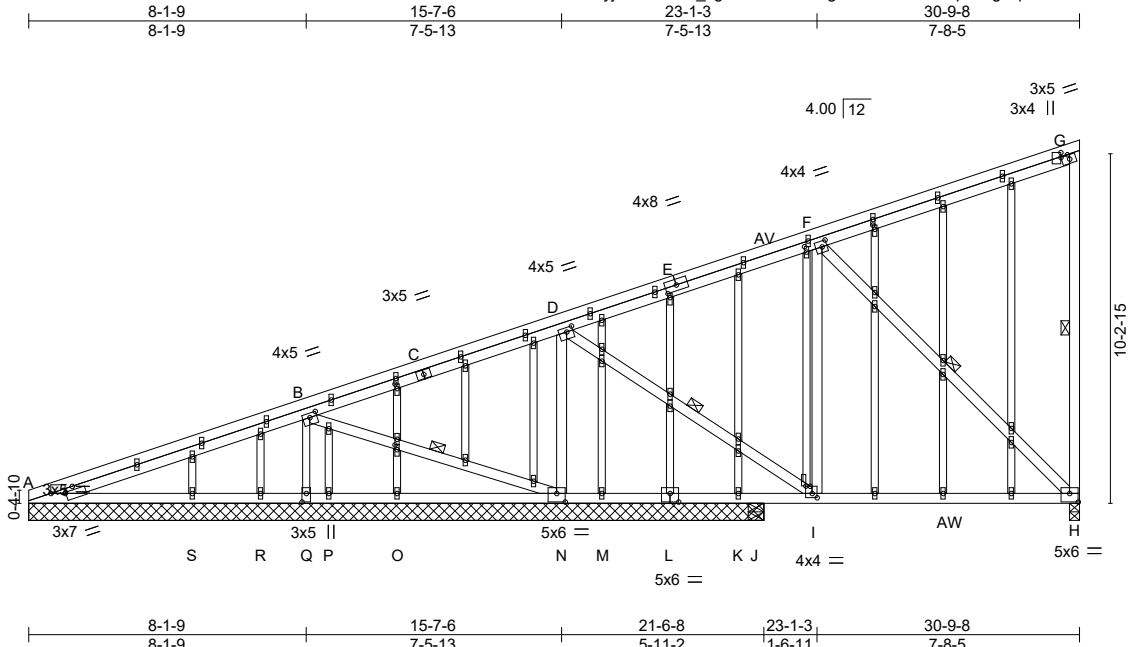


Plate Offsets (X,Y)--	[A:0-5-0,0-1-4], [B:0-2-8,0-1-8], [D:0-2-4,0-1-8], [F:0-1-12,0-2-0], [G:0-0-12,0-2-4], [G:0-2-12,0-1-8], [H:0-3-0,0-3-0], [I:0-0-1,0-1-8], [I:0-1-12,0-1-8], [L:0-3-0,0-3-0], [N:0-3-0,0-3-0], [Q:0-3-0,0-1-8], [Z:0-1-8,0-0-12], [AC:0-1-14,0-0-12], [AF:0-1-6,0-0-12], [AN:0-1-11,0-0-12], [AO:0-1-9,0-0-12], [AT:0-2-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.72	Vert(LL) -0.13	H-I	>842	360	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.72	Vert(CT) -0.23	H-I	>487	240		
TCDL 12.0	Lumber DOL 1.15	WB 0.94	Horz(CT) -0.03	H	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL) -0.05	H-I	>999	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* C-G,A-C: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-3-4 oc bracing.
WEBS 2x4 SPF No.2 *Except* B-Q: 2x3 SPF No.2	WEBS 1 Row at midpt G-H, B-N, D-I, F-H
OTHERS 2x3 SPF No.2	

REACTIONS.	All bearings 21-6-8 except (jt=length) H=0-3-8, J=0-5-8.
(lb) - Max Horz	A=372(LC 38)
Max Uplift	All uplift 100 lb or less at joint(s) P, R, S except H=872(LC 40), A=1004(LC 31), Q=1526(LC 39), N=981(LC 31), J=318(LC 18)
Max Grav	All reactions 250 lb or less at joint(s) M, O, P, R, J except H=1507(LC 27), A=1129(LC 50), Q=1622(LC 28), N=1677(LC 28), K=291(LC 18), S=268(LC 29), A=302(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	A-B=-3240/2962, B-D=-3490/3268, D-F=-3315/3036, F-G=-2063/1943, G-H=-365/63
BOT CHORD	A-S=-2591/2512, R-S=-1485/1406, Q-R=-799/720, P-Q=-376/286, O-P=-759/682, N-O=-2414/2337, M-N=-789/675, K-M=-2202/2088, J-K=-2370/2267, I-J=-2380/2267, H-I=-853/1112
WEBS	B-Q=-1589/1590, B-N=-2137/2135, D-N=-2036/1680, D-I=-1800/2008, F-I=-992/1119, F-H=-1543/1208

- 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, R, S except (jt=lb) H=872, A=1004, Q=1526, N=981, J=318, A=1004.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	X5	GABLE	8	1	U1530815
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:55 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

- NOTES-**
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) 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 21-6-8 for 343.1 plf.
 - 12) No notches allowed in overhang and 0 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.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530816
N0653A	Y1	GABLE	12	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:57 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFfgC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcD0i7J4zJC?f

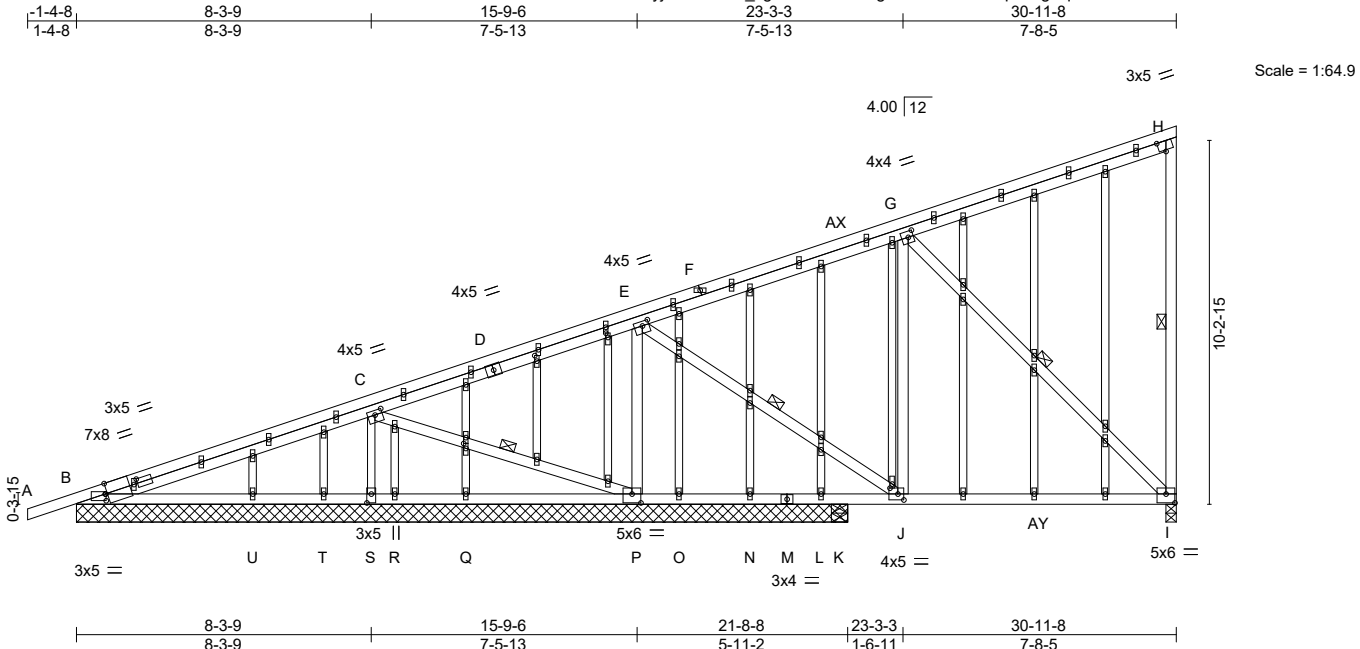


Plate Offsets (X,Y)--	[B:0-0-11,Edge], [B:0-11-7,0-1-8], [B:0-0-4,0-2-4], [C:0-2-8,0-1-8], [E:0-2-4,0-1-8], [G:0-1-12,0-2-0], [H:0-2-3,Edge], [I:0-3-0,0-3-0], [J:0-2-0,0-2-0], [J:0-1-6,0-0-12], [P:0-3-0,0-3-0], [S:0-3-0,0-1-8], [AM:0-1-7,0-0-12], [AO:0-1-14,0-0-12], [AP:0-1-11,0-0-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.13 I-J >841 360		
TCDL 12.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.23 I-J >487 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.03 I n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) -0.05 I-J >999 240	Weight: 218 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals.
D-H,A-F: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 3-6-4 oc bracing.
BOT CHORD 2x4 SPF No.2	WEBS 1 Row at midpt H-I, C-P, E-J, G-I
WEBS 2x4 SPF No.2 *Except*	
C-S: 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 21-8-8 except (jt=length) I=0-3-8, K=0-5-8.
(lb) - Max Horz B=805(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) L, O, R, U except I=905(LC 41), B=1107(LC 32), S=1564(LC 40), P=1031(LC 32), T=119(LC 1), K=218(LC 19)
Max Grav All reactions 250 lb or less at joint(s) L, N, Q, R, T, K except I=1537(LC 28), B=1202(LC 29), S=1662(LC 29), P=1764(LC 29), U=355(LC 26), B=492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=3338/3068, C-E=3380/3168, E-G=3278/3005, G-H=2062/1943, H-I=369/63
BOT CHORD B-U=2446/2358, T-U=1359/1255, S-T=658/570, R-S=253/165, Q-R=920/818, P-Q=2571/2469, O-P=936/815, N-O=1621/1499, L-N=2306/2184, K-L=2475/2362, J-K=2484/2362, I-J=887/1139
WEBS C-S=1590/1578, C-P=2166/2183, E-P=2102/1747, E-J=1871/2083, G-J=1034/1156, G-I=1582/1255

- 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 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) L, O, R, U except B=1107, S=1564, P=1031, T=119, K=218, B=1107.



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Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	Y1	GABLE	12	1	U1530816

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:57 2024 Page 2
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- NOTES-**
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) 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 21-8-8 for 342.3 plf.
 - 13) No notches allowed in overhang and 10408 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.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530898
N0653A	Y2A	Monopitch	66	1	Job Reference (optional)	

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

8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:40 2024 Page 1

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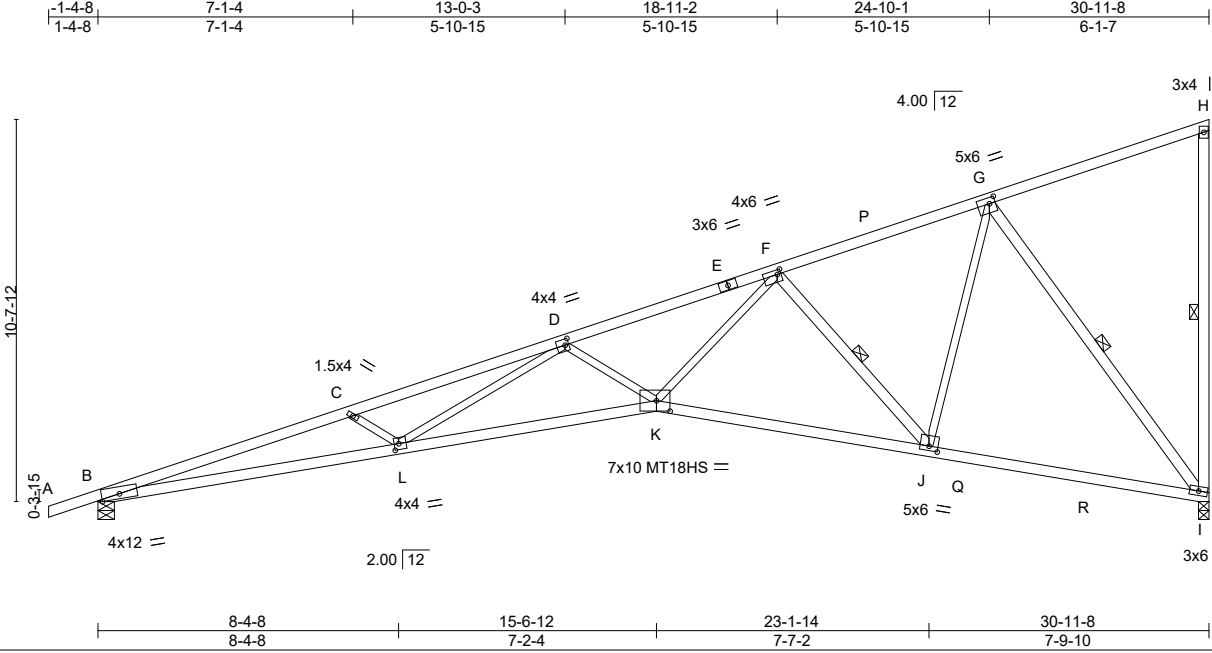


Plate Offsets (X,Y)--	[D:0-1-4,0-2-0], [F:0-1-4,0-1-8], [G:0-2-0,0-2-0], [J:0-3-0,0-1-8], [K:0-4-8,0-3-8], [L:0-1-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.64	K-L	>578	360	MT20	197/144
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.87	Vert(CT)	-1.14	K-L	>323	240	MT18HS	197/144
TCDL 12.0	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.47	I	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS	Wind(LL)	0.33	K-L	>999	240		
BCDL 10.0									Weight: 123 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* A-E: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 8-3-2 oc bracing.
WEBS 2x3 SPF No.2 *Except* H-I,F-J,G-I: 2x4 SPF No.2	WEBS 1 Row at midpt H-I, F-J, G-I

REACTIONS. (size) I=0-3-8, B=0-5-8
Max Horz B=347(LC 9)
Max Uplift I=209(LC 10), B=202(LC 6)
Max Grav I=1774(LC 3), B=1624(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-6947/816, C-D=-6607/733, D-F=-4823/535, F-G=-1666/190, H-I=-287/49
BOT CHORD B-L=-901/6640, K-L=-685/5302, J-K=-314/2762, I-J=-132/1215
WEBS C-L=-456/167, D-L=-93/1238, D-K=-901/211, F-K=-294/2743, F-J=-1862/308, G-J=-125/1553, G-I=-1987/261

- 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, with BCDL = 10.0psf.
 - 8) Bearing at joint(s) I, B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=Ib) I=209, B=202.
 - 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

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

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

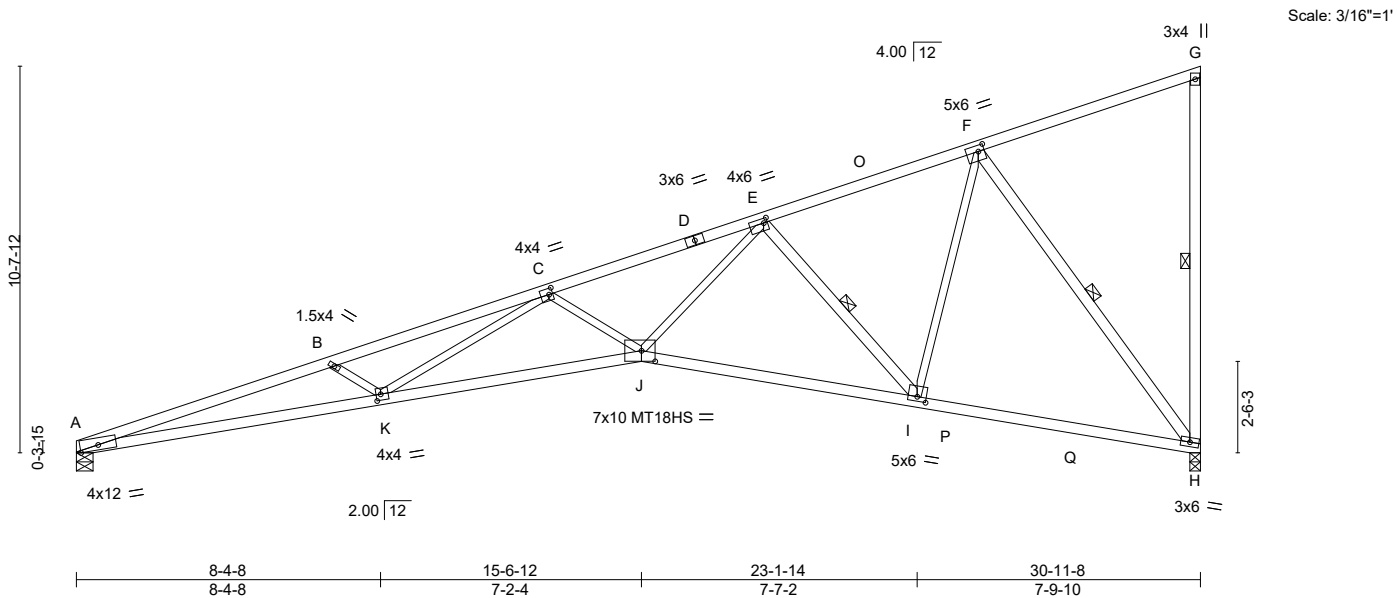
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530899
N0653A	Y3A	Monopitch	6	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:41 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-dRIBFoUCIhEWI60J8k5RvTzTAyzpa20iKcp92MMyeVqa



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.64 J-K	>579	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.88	Vert(CT)	-1.14 J-K	>323	240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.47 H	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.33 J-K	>999	240		
BCDL	10.0									Weight: 121 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* A-D: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 8-2-7 oc bracing.
WEBS	2x3 SPF No.2 *Except* G-H,E-I,F-H: 2x4 SPF No.2	WEBS	1 Row at midpt G-H, E-I, F-H

REACTIONS. (size) H=0-3-8, A=0-5-8
Max Horz A=340(LC 9)
Max Uplift H=-209(LC 10), A=-157(LC 6)
Max Grav H=1764(LC 3), A=1535(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-6974/830, B-C=-6628/745, C-E=-4815/539, E-F=-1658/191, G-H=-285/49
BOT CHORD A-K=-914/6667, J-K=-689/5299, I-J=-316/2753, H-I=-132/1208
WEBS B-K=-466/170, C-K=-102/1264, C-J=-908/213, E-J=-297/2744, E-I=-1858/309, F-I=-126/1550, F-H=-1973/262

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) H, A 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=209, A=157.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530817
N0653A	Y4	Monopitch	30	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:58 2024 Page 1
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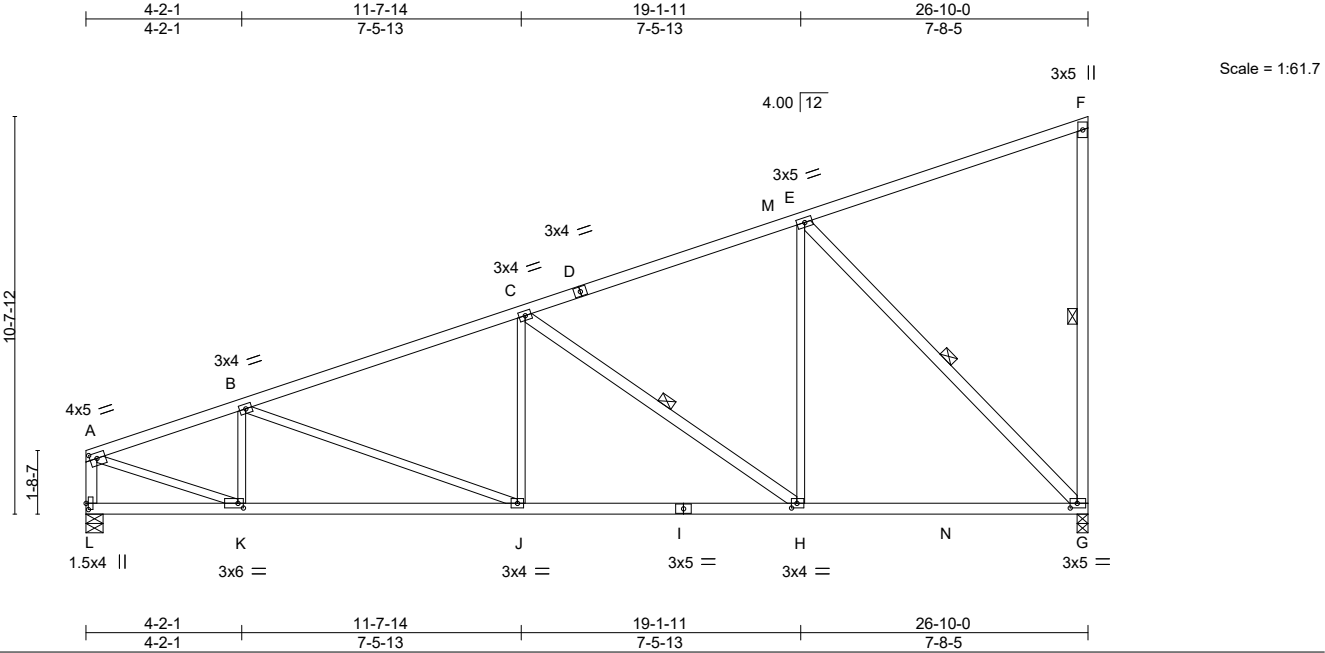


Plate Offsets (X,Y)-- [A:0-2-4,0-1-12], [G:0-2-4,0-1-8], [H:0-1-12,0-1-8], [K:0-1-12,0-1-8], [L:0-2-0,0-0-12]												
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP
TCLL	25.0	2-0-0		TC	0.70	in (loc)	l/defl	L/d		MT20	197/144	
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.79	Vert(LL)	-0.16 G-H	>999	360			
TCDL	12.0	Lumber DOL	1.15	WB	0.83	Vert(CT)	-0.26 G-H	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES			Horz(CT)	0.06 G	n/a	n/a			
BCDL	10.0	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.05 G-H	>999	240			
								Weight: 120 lb		FT = 20%		

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

REACTIONS. (size) G=0-3-8, L=0-5-8
Max Horz L=333(LC 7)
Max Uplift G=-186(LC 10), L=-130(LC 6)
Max Grav G=1520(LC 3), L=1328(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1868/185, B-C=-1925/200, C-E=-1212/145, F-G=-358/63, A-L=-1278/140
BOT CHORD K-L=-318/42, J-K=-270/1749, H-J=-214/1759, G-H=-122/1089
WEBS B-K=-487/125, C-J=0/306, C-H=-851/158, E-H=-20/828, E-G=-1540/227, A-K=-173/1821

- 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) TCDL: 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=186, L=130.
 - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530900
N0653A	Y5	GABLE	6	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:42 2024 Page 1
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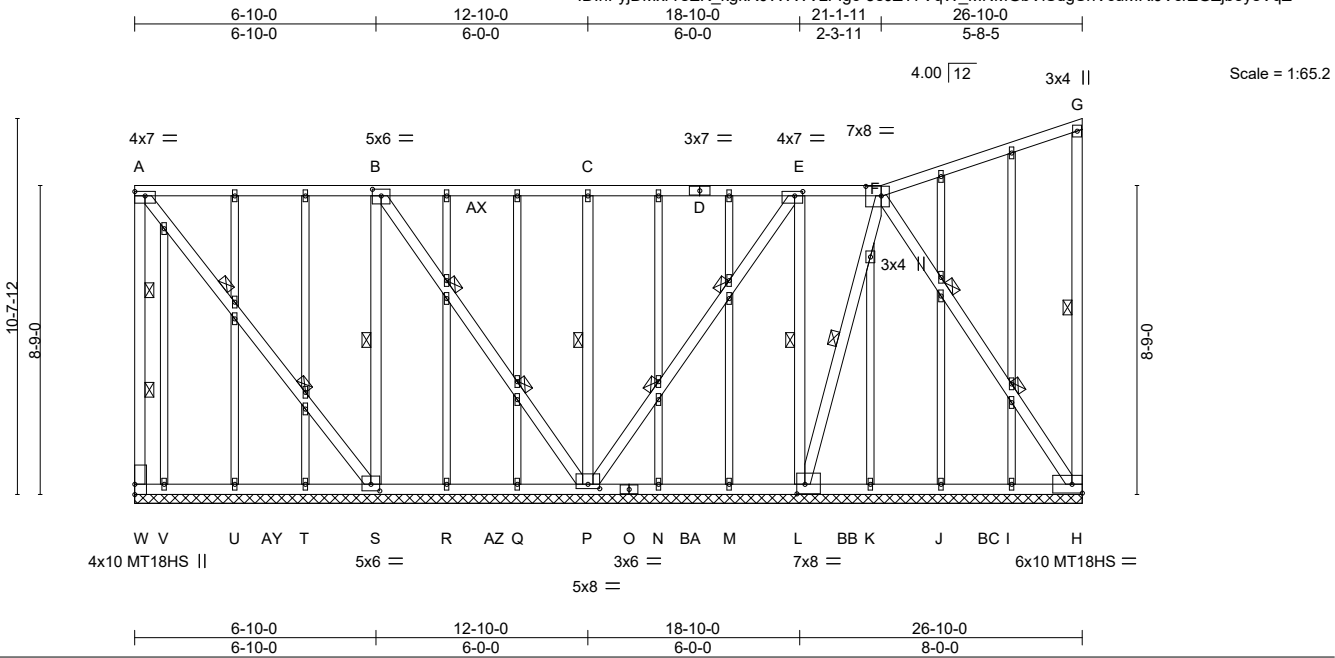


Plate Offsets (X,Y)-- [A:Edge,0-1-8], [B:0-3-0,0-2-4], [E:0-2-12,0-1-8], [F:0-5-4,0-3-4], [L:0-2-12,0-3-4], [P:0-4-0,0-1-8], [S:0-3-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.88	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 12.0	Plate Grip DOL 1.15	BC 0.33	Vert(CT)	n/a	-	n/a	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Horz(CT)	-0.02	H	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 231 lb	FT = 20%
	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt G-H, B-S, C-P, E-L, F-L
OTHERS 2x3 SPF No.2	2 Rows at 1/3 pts A-W, A-S, B-P, E-P, F-H

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz W=173(LC 34)
Max Uplift All uplift 100 lb or less at joint(s) except W=-2139(LC 36), H=-2305(LC 41), S=-150(LC 41), P=-226(LC 41), L=-891(LC 40), V=-119(LC 35)
Max Grav All reactions 250 lb or less at joint(s) I, J, K, M, N, Q, R, T, U, V except W=2097(LC 35), H=2315(LC 52), S=650(LC 64), P=1112(LC 64), L=1083(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-W=-2014/2015, A-B=-1598/1568, B-C=-1350/1315, C-E=-1662/1627, E-F=-876/827, F-G=-1443/1387, G-H=-292/69
BOT CHORD V-W=-265/207, U-V=-745/687, T-U=-1225/1167, S-T=-1705/1647, R-S=-605/557, Q-R=-1085/1037, P-Q=-1565/1517, N-P=-1184/1160, M-N=-704/680, L-M=-307/283, K-L=-460/452, J-K=-552/543, I-J=-1032/1023, H-I=-1474/1468
WEBS A-S=-2532/2548, B-S=-2022/2020, B-P=-2379/2377, C-P=-657/135, E-P=-2325/2308, E-L=-1883/1887, F-L=-2787/2764, F-H=-2671/2688

- 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 exposed; end vertical left 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) TCDL: 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) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2139 lb uplift at joint W, 2305 lb uplift at joint H, 150 lb uplift at joint S, 226 lb uplift at joint P, 891 lb uplift at joint L and 119 lb uplift at joint V.
 - 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI



September 12,2024

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530900
N0653A	Y5	GABLE	6	1	Job Reference (optional)	

Alliance Truss (CA),
Abbotsford, BC - V2S 7P6,
8.820 s Aug 30 2024 MiTek Industries, Inc.
Thu Sep 12 02:48:42 2024
Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzF1gc-5eJZT7VqW_MNMGbViSdgShVcuMRiJVcrZGZjboyeVqZ

NOTES-

14) 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 26-10-0 for 240.0 plf.

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530818
N0653A	Y6	GABLE	6	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:47:59 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

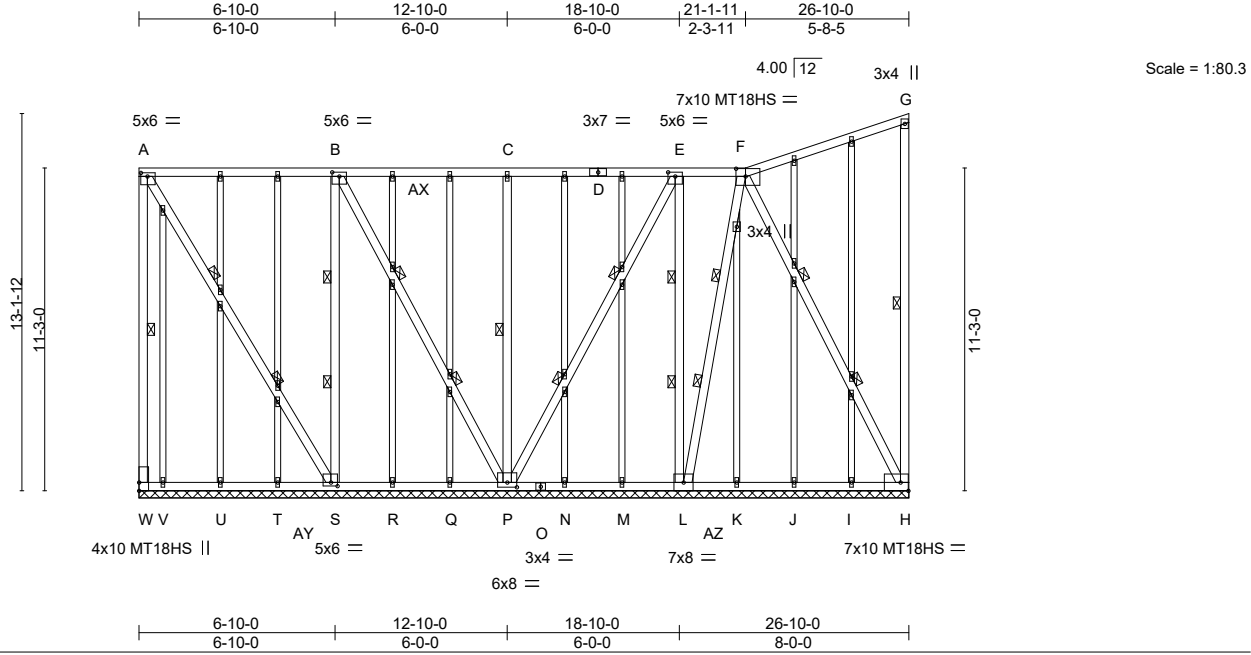


Plate Offsets (X,Y)--	[A:0-2-12,0-1-8], [B:0-3-0,0-1-12], [E:0-3-0,0-1-12], [F:0-4-0,0-3-4], [H:0-3-4,Edge], [P:0-4-0,0-2-0], [S:0-2-12,0-1-8]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.96	in (loc) l/defl L/d	MT20 197/144	
TCDL 12.0	Lumber DOL 1.15	BC 0.32	Vert(LL) n/a - n/a 999	MT18HS 197/144	
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Horz(CT) -0.02 H n/a n/a		
				Weight: 278 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-7-8 oc bracing.
WEBS 2x4 SPF 2100F 1.8E *Except* G-H,B-S,C-P,E-L: 2x4 SPF No.2	WEBS 1 Row at midpt A-W, G-H, C-P 2 Rows at 1/3 pts A-S, B-S, B-P, E-P, E-L, F-L, F-H
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz W=56(LC 32)
Max Uplift All uplift 100 lb or less at joint(s) V except W=-2743(LC 32), H=-3094(LC 33), S=-471(LC 33),
P=-231(LC 32), L=-1185(LC 32)
Max Grav All reactions 250 lb or less at joint(s) I, J, K, M, N, Q, R, T, U, V except W=2772(LC 53),
H=3090(LC 52), S=664(LC 28), P=1272(LC 64), L=1269(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-W=-2737/2708, A-B=-1642/1624, B-C=-1333/1313, C-E=-1652/1632, E-F=-875/850,
F-G=-1442/1386, G-H=-291/71
BOT CHORD U-V=-700/645, T-U=-1180/1125, S-T=-1660/1605, R-S=-495/454, Q-R=-975/934,
P-Q=-1455/1414, N-P=-1133/1114, M-N=-653/634, L-M=-382/362, K-L=-361/349,
J-K=-613/601, I-J=-1093/1081, H-I=-1538/1526
WEBS A-S=-3132/3159, B-S=-2398/2372, B-P=-2680/2691, C-P=-657/141, E-P=-2718/2684,
E-L=-2322/2339, F-L=-3521/3482, F-H=-3374/3401

- 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; 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) TCDL: 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) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) V except (jt=lb) W=2743, H=3094, S=471, P=231, L=1185.
 - 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI



September 12, 2024

Continued on page 2

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



240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H
N0653A	Y6	GABLE	6	1	U1530818
Job Reference (optional)					

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:48:00 2024 Page 2
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-
14) 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 26-10-0 for 240.0 plf.

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

ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3ulTXbgKWrCDoi7J4zJC?f

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 02:48:00 2024 Page 1

Scale = 1:73.0

Plate Offsets (X,Y)-- [A:0-2-0,0-1-8], [F:Edge,0-3-8], [H:0-1-12,0-1-8], [K:0-1-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0) TCDL 12.0 BCLL 0.0 * BCDL 10.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	TC 0.71 BC 0.72 WB 0.79 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.16 G-H >999 360 Vert(CT) -0.27 G-H >999 240 Horz(CT) 0.04 G n/a n/a Wind(LL) 0.03 J >999 240	MT20 Weight: 141 lb	197/144 FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins,
 except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt F-G, C-H
 2 Rows at 1/3 pts E-G

REACTIONS. (size) G=0-3-8, L=0-5-8
Max Horz L=246(LC 7)
Max Uplift G=-238(LC 10), L=-76(LC 6)
Max Grav G=1567(LC 3), L=1384(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1040/50, B-C=-1393/71, C-E=-967/37, F-G=-357/78, A-L=-1343/85
BOT CHORD J-K=-297/973, H-J=-248/1254, G-H=-141/856
WEBS B-K=-758/118, B-J=0/344, C-H=-610/155, E-H=-28/801, E-G=-1426/237, A-K=-71/1355

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 exposed ; end vertical left 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L except (jt=lb)
G=238.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

September 12,2024

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

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

MiTek®
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	Buildings A-H	U1530901
N0653A	Y8A	GABLE	6	1	Job Reference (optional)	

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.820 s Aug 30 2024 MiTek Industries, Inc. Thu Sep 12 02:48:44 2024 Page 1
ID:hFyjDMxrTsEK_kgkR0vWwVzFlgc-10RKtpW42cc5caluqtf8X6b_5A0BnRs80a2pfhyeVqX
24-7-11 30-11-8 30-11-8 6-1-5 6-1-5 6-3-13 6-3-13 12-5-2 6-1-5 18-6-6 6-3-13 6-3-13

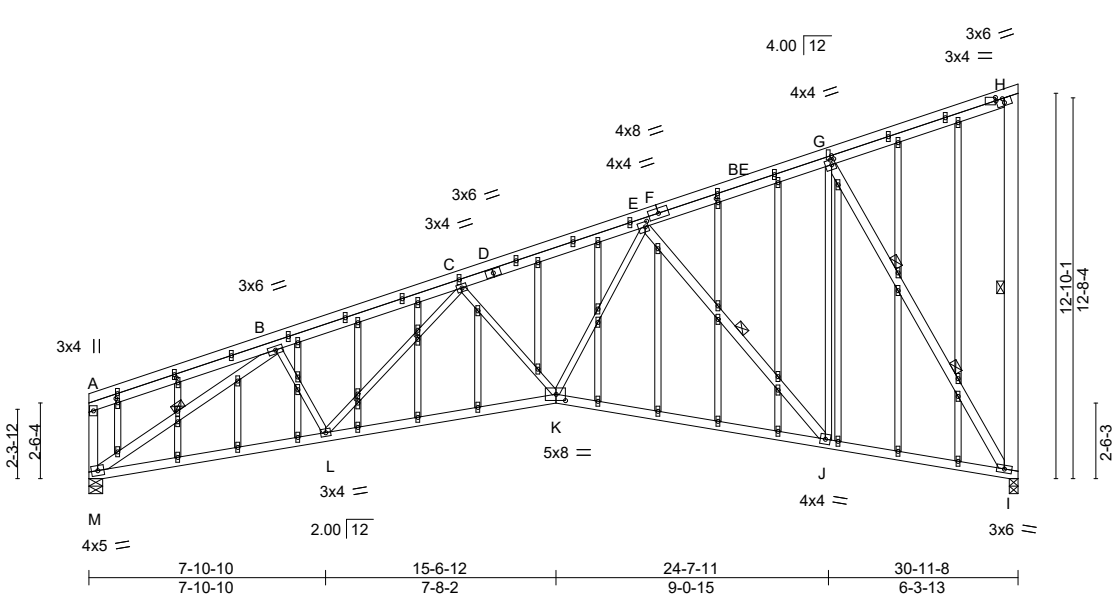


Plate Offsets (X,Y)-- [E:0-1-4,0-2-0], [G:0-1-8,0-2-0], [G:0-1-12,0-0-8], [H:0-2-12,0-0-8], [H:0-3-0,Edge], [K:0-3-12,0-2-8], [AC:0-1-10,0-0-12], [AO:0-1-11,0-0-12], [AR:0-1-11,0-0-12], [BA:0-2-0,0-0-10], [BD:0-1-11,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.22 J-K >999 360		
TCDL 12.0	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.51 J-K >723 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.20 I n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) 0.10 K-L >999 240	Weight: 257 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt H-I, E-J, B-M
H-I: 2x6 SPF No.2, E-J, G-I, A-M, B-M: 2x4 SPF No.2	2 Rows at 1/3 pts G-I
OTHERS 2x3 SPF No.2	

REACTIONS. (size) I=0-3-8, M=0-5-8
Max Horz M=401(LC 7)
Max Uplift I=-217(LC 10), M=-148(LC 6)
Max Grav I=1748(LC 16), M=1492(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2627/313, C-E=-2603/310, E-G=-1041/143, H-I=-301/54
BOT CHORD L-M=-399/2270, K-L=-358/2655, J-K=-252/1877, I-J=-137/946
WEBS B-L=0/380, C-L=-282/38, C-K=-347/139, E-K=-133/1270, E-J=-1429/259, G-J=-91/1116, G-I=-1800/238, B-M=-2668/301

- 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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) Bearing at joint(s) I, M considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint I and 148 lb uplift at joint M.
 - 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 0 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.



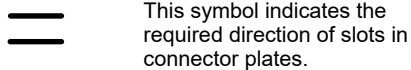
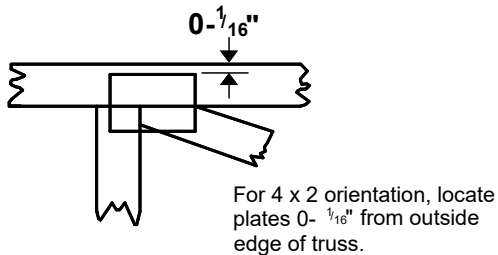
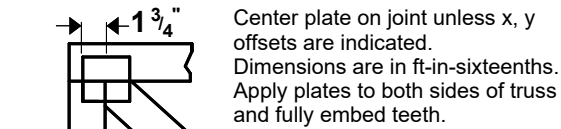
September 12,2024

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



Symbols

PLATE LOCATION AND ORIENTATION



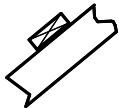
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

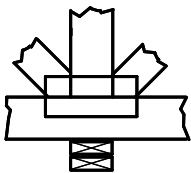
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

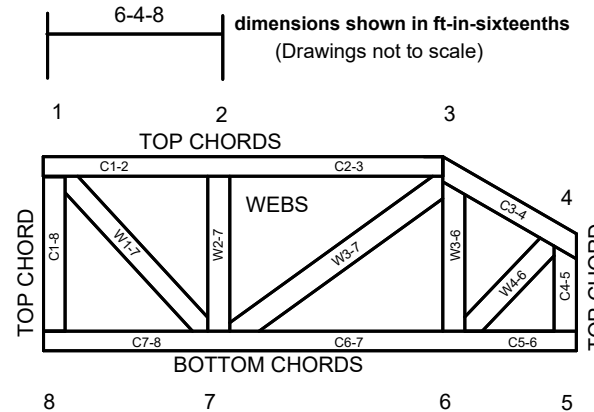


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.