

RE: 2684908

Summit/67 Woodside

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 2684908

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.2

Wind Code: N/A Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I43520189	A1	2/25/2021	21	143520209	C3	2/25/2021
2	143520190	A2A	2/25/2021	22	I43520210	C4	2/25/2021
3	143520191	A2B	2/25/2021	23	I43520211	D1	2/25/2021
4	143520192	A2C	2/25/2021	24	I43520212	D2	2/25/2021
5	143520193	A2D	2/25/2021	25	I43520213	D3	2/25/2021
6	143520194	A2E	2/25/2021	26	143520214	GR1	2/25/2021
7	143520195	A2F	2/25/2021	27	I43520215	GR2	2/25/2021
8	I43520196	A3	2/25/2021	28	I43520216	JD1	2/25/2021
9	143520197	A4	2/25/2021	29	143520217	JD2	2/25/2021
10	143520198	A5	2/25/2021	30	I43520218	JD3	2/25/2021
11	143520199	A6	2/25/2021	31	143520219	LG1	2/25/2021
12	143520200	A7	2/25/2021	32	143520220	LG2	2/25/2021
13	143520201	A8	2/25/2021	33	143520221	LG3	2/25/2021
14	143520202	A9	2/25/2021	34	143520222	LG4	2/25/2021
15	143520203	A10	2/25/2021	35	143520223	M1	2/25/2021
16	143520204	A11	2/25/2021	36	143520224	M2	2/25/2021
17	143520205	A12	2/25/2021	37	143520225	M3	2/25/2021
18	143520206	A13	2/25/2021	38	143520226	M4	2/25/2021
19	143520207	C1	2/25/2021	39	143520227	P1	2/25/2021
20	143520208	C2	2/25/2021	40	143520228	P2	2/25/2021

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Builders FirstSource (Valley Center).

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.





RE: 2684908 - Summit/67 Woodside

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Project Customer: Project Name: 2684908

Lot/Block: Subdivision: Address:

City, County: State:

No. Seal# Truss Name Date 41 I43520229 P3 2/25/2021 Job Ply Summit/67 Woodside Truss Truss Type Qtv 143520189 2684908 Α1 Common Supported Gable Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

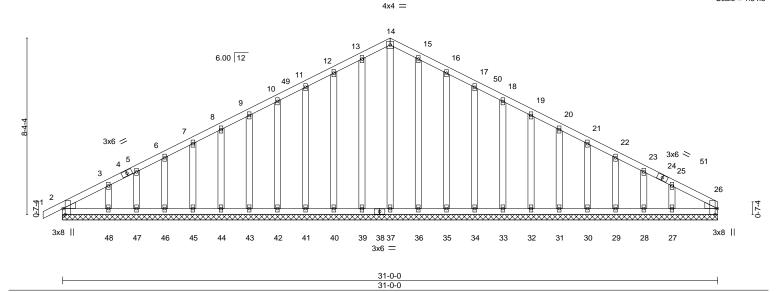
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:16 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-RPZbeCax9w3m6YSI6ezjwh5HtENo9mpn0c5mqSyM8jn 31-0-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

0-11-0 15-6-0 15-6-0

Scale = 1:54.5



[2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge], [26:0-0-1,0-0-3], [26:0-0-3,0-5-0], [26:0-3-8,Edge] Plate Offsets (X,Y)--LOADING (psf) GRIP SPACING-2-0-0 CSL DEFI in (loc) I/defl L/d **PLATES** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 n/r 120 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.03 Vert(CT) 0.00 n/r 120 **TCDL** 10.0 WB 0.17 Rep Stress Incr YES Horz(CT) 0.00 26 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 181 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. All bearings 31-0-0.

(lb) - Max Horz 2=156(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 36, 35, 34, 33, 32,

31, 30, 29, 28, 27

All reactions 250 lb or less at joint(s) 2, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 36, 35, 34,

33, 32, 31, 30, 29, 28, 27, 26

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-2-0, Exterior(2N) 2-2-0 to 15-6-0, Corner(3R) 15-6-0 to 18-6-0, Exterior(2N) 18-6-0 to 31-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27,
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



Truss Type Job Qty Summit/67 Woodside Truss Ply 143520190 2684908 A2A Roof Special Job Reference (optional)

Builders FirstSource (Valley Center),

7-9-3

-0-11-0 0-11-0

Valley Center, KS - 67147,

15-6-0

7-8-13

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:29 2020 Page 1 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-ZvsWMfk55wiwAYynNsinyQ7LdTbbiWQh?7lynCyM8jarunder{2} ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-ZvsWMfk55wiwAYynNsinyQ7LdTbbiWqhyq07LdTbb$ 21-10-10 28-0-13 31-0-0 6-4-10 6-2-4 2-11-3

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 7-8.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:59.4

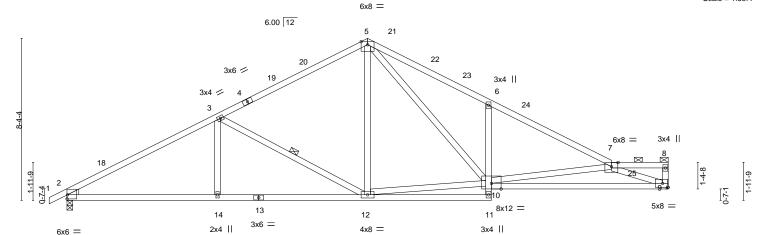


Plate Offsets (X,Y) [2:Edge,0-2-9], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1], [7:0-4-0,0-2-8]		1-5-5	0-10	0-7-10	0-2	7	2-11-0	
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 Plate Grip DOL 1.15 BC 0.95 Vert(LL) -0.20 9-10 >999 240 MT20 197/144 Which is a specific or control of the control of t	Plate Offsets (X,Y) [2:Edge,0-	-2-9], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1], [7	:0-4-0,0-2-8]					
RCII 00 Table 1 Table	TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.70 BC 0.95 WB 0.72	Vert(LL) -0.20 Vert(CT) -0.40	0 9-10 >999 6 9-10 >803	240	MT20	

BRACING-

TOP CHORD

BOT CHORD

WEBS

21-10-10

LUMBER-

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

2x4 SPF No.2 WEBS WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 9=Mechanical, 2=0-3-8

Max Horz 2=169(LC 15)

Max Uplift 9=-113(LC 16), 2=-141(LC 16) Max Grav 9=1387(LC 2), 2=1454(LC 2)

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

2-3=-2369/290, 3-5=-1666/277, 5-6=-2437/404, 6-7=-2463/305 TOP CHORD **BOT CHORD** 2-14=-251/2021, 12-14=-251/2021, 6-10=-589/174, 9-10=-423/3085

3-14=0/293, 3-12=-772/155, 5-12=-8/444, 10-12=-49/1166, 5-10=-189/1285, WFBS

7-10=-958/195, 7-9=-3157/487

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 30-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=113, 2=141,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020





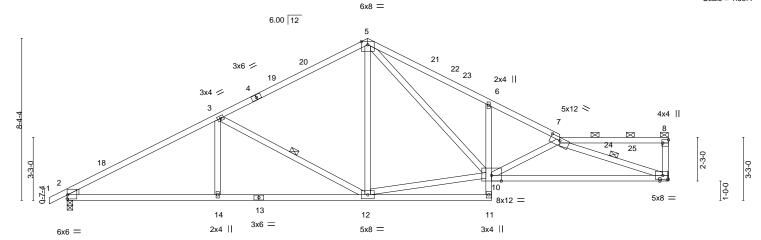
Job Summit/67 Woodside Truss Truss Type Ply Qty 143520191 2684908 A2B Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:31 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-VHzGnKmLdXyePs6AUHIF1rChHHGVARi_TRE3s5yM8jY

0-11-0 15-6-0 21-10-10 25-4-13 31-0-0 7-9-3 7-8-13 6-4-10 3-6-4

Scale = 1:59.4



	1-9-3	-0-13	0-4-10	3-0-4		J-1-J	
Plate Offsets (X,Y) [2:Edge,	,0-2-9], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1], [7:0-6-0,0-1-14], [8:Edge,0-	-3-8]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.69 BC 0.92 WB 0.60 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.21 9-10 >999 -0.48 9-10 >777 0.12 9 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 134 lb	GRIP 197/144 FT = 20%

LUMBER-

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

2x4 SPF No.2 WEBS WEDGE

Left: 2x4 SPF No.2

BRACING-

21-10-10

Structural wood sheathing directly applied, except end verticals, and TOP CHORD

2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD Rigid ceiling directly applied.

3-12, 7-9 WEBS 1 Row at midpt

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=179(LC 15)

Max Uplift 9=-113(LC 16), 2=-140(LC 16) Max Grav 9=1387(LC 2), 2=1454(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2368/289, 3-5=-1668/277, 5-6=-2657/420, 6-7=-2662/322, 8-9=-258/60 TOP CHORD

BOT CHORD 2-14=-295/2020, 12-14=-295/2020, 6-10=-453/138, 9-10=-414/3048 WFBS

3-14=0/292, 3-12=-771/155, 5-12=-0/386, 10-12=-125/1293, 5-10=-207/1427,

7-10=-832/155, 7-9=-3094/424

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 30-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=113, 2=140,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020



Truss Type Job Qty Summit/67 Woodside Truss Ply 143520192 2684908 A2C Roof Special Job Reference (optional)

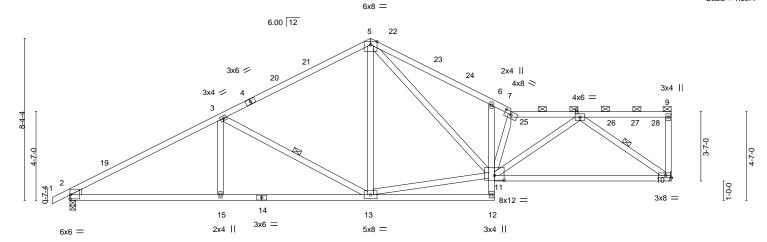
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:33 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-Rg50C0nb99CLf9GZcinj6GI1I4?FePxHwljAwzyM8jW 26-3-9 31-0-0

-0-11-0 0-11-0 15-6-0 21-10-10 22-8-13 0-10-4 7-9-3 7-8-13 6-4-10 3-6-11 4-8-7

Scale = 1:59.4



	1-9-5	0-13	0-4-10	3-1-0		
Plate Offsets (X,Y) [2:Edge,	,0-2-9], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1], [7	:0-4-0,0-1-14], [11:0-6-0,0	0-3-0]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.69 BC 0.71 WB 0.36	DEFL. in (low long to	1 >999 240	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 140 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-

21-10-10

Structural wood sheathing directly applied, except end verticals, and TOP CHORD

2-0-0 oc purlins (3-4-10 max.): 7-9.

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 3-13, 8-10

REACTIONS. (size) 10=Mechanical, 2=0-3-8

Max Horz 2=200(LC 15)

Max Uplift 10=-114(LC 16), 2=-139(LC 16) Max Grav 10=1387(LC 2), 2=1454(LC 2)

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

2-3=-2368/290, 3-5=-1667/277, 5-6=-2667/423, 6-7=-2596/312, 7-8=-2692/329 TOP CHORD **BOT CHORD** 2-15=-342/2020, 13-15=-342/2020, 6-11=-493/152, 10-11=-256/1639

3-15=0/292, 3-13=-771/156, 5-13=-1/386, 11-13=-169/1296, 5-11=-209/1401, WFBS

7-11=-1232/130, 8-11=-124/1296, 8-10=-1954/292

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 30-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=114, 2=139,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020





Job Summit/67 Woodside Truss Truss Type Ply Qty 143520193 2684908 A2D Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:35 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-N3DndipshmS3uTPxj7pBBhNN0ufW6DEaO3CG?syM8jU -0-11-0 0-11-0 15-6-0 21-10-10 24-0-13 31-0-0

6-4-10

2-2-4

7-8-13

Scale = 1:59.4 6x8 = 6.00 12 21 3x6 / 2x4 || 6 5x12 > 4x12 MT20HS || 2-11-0 10 6x12 = 4x8 = 13

		7-9-3	15-6-0	21-10-10	24-0-13	31-0-0	
		7-9-3	7-8-13	6-4-10	2-2-4	6-11-3	1
e Offsets	(X,Y)	[2:Edge,0-2-9], [2:0-5-0,0-0-	-3], [2:0-0-3,0-0-1], [7:0-6-0,0-1-14], [8	3:0-3-8,Edge], [10:0-5-8,0-2-0]			

12

5x8 =

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.70	Vert(LL) -0.21 9-10 >999 2	
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.47 9-10 >784 1	30 MT20HS 148/108
	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.11 9 n/a r	/a
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	(**)	Weight: 136 lb FT = 20%
BCDL 10.0	Code 11(02010/11 12014	Watrix-AG		Weight. 130 lb 11 = 2070

LUMBER-

Plate

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

6x6 =

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD Rigid ceiling directly applied.

3-12, 7-9 WEBS 1 Row at midpt

11

3x4 ||

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=189(LC 15)

7-9-3

Max Uplift 9=-114(LC 16), 2=-139(LC 16) Max Grav 9=1387(LC 2), 2=1454(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2368/290, 3-5=-1668/277, 5-6=-2653/420, 6-7=-2658/325, 8-9=-306/71 TOP CHORD **BOT CHORD** 2-14=-319/2020, 12-14=-319/2020, 6-10=-386/113, 9-10=-378/2749 WFBS

3-14=0/292, 3-12=-770/155, 5-12=-0/385, 10-12=-149/1302, 5-10=-206/1386,

14

2x4 ||

3x6 =

7-10=-672/130, 7-9=-2817/376

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 30-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=114 2=139
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020





Job Truss Type Summit/67 Woodside Truss Ply Qty 143520194 2684908 A2E Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:37 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-KRLX2Or6CNin7nZKrYsfG6SjihM8aAqsrNhN3kyM8jS 21-10-10 26-8-13 31-0-0

4-10-4

Structural wood sheathing directly applied, except end verticals, and

-0-11-0 0-11-0 15-6-0 7-9-3 7-8-13 6-4-10 4-10-4 4-3-3

Scale = 1:59.5

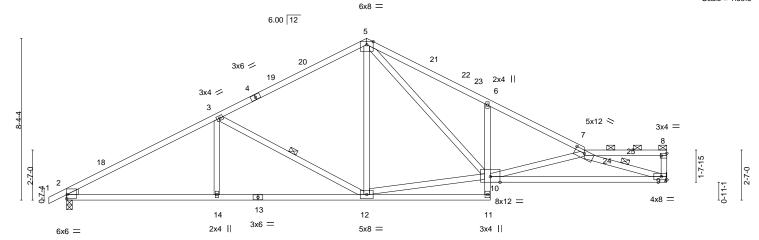


Plate Offsets (X,Y) [2:Edge,	0-2-9], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1], [7	':0-6-0,0-1-14], [8:Edge,0-	1-8]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.69 BC 0.71 WB 0.56	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.20 9-10 -0.46 9-10 0.12 9	l/defl >999 >805 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	, ,				Weight: 133 lb	FT = 20%

21-10-10

6-4-10

10.0 BCDL LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD

2x4 SPF No.2 *Except* BOT CHORD 2-0-0 oc purlins (6-0-0 max.): 7-8. 9-10: 2x4 SPF 1650F 1.5E **BOT CHORD** Rigid ceiling directly applied.

7-8-13

WEBS 2x4 SPF No.2 3-12, 7-9 WEBS 1 Row at midpt

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=170(LC 15)

Max Uplift 9=-113(LC 16), 2=-140(LC 16) Max Grav 9=1387(LC 2), 2=1454(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2368/290, 3-5=-1667/277, 5-6=-2617/418, 6-7=-2625/322 BOT CHORD 2-14=-271/2020, 12-14=-271/2020, 6-10=-520/157, 9-10=-458/3386 WFBS 3-14=0/292, 3-12=-771/155, 5-12=-2/398, 10-12=-95/1264, 5-10=-204/1446,

7-10=-1136/205, 7-9=-3402/488

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 30-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=113 2=140
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020





Job Summit/67 Woodside Truss Truss Type Ply Qty 143520195 2684908 A2F Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:39 2020 Page 1 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-GqSIS3sMk?yVN4jiyzu7MXY1dV1a23J9JhAU8dyM8jQINCONTRACTURE (Application of the contraction of t$ 29-4-13

2-0-0 oc purlins (6-0-0 max.): 7-8.

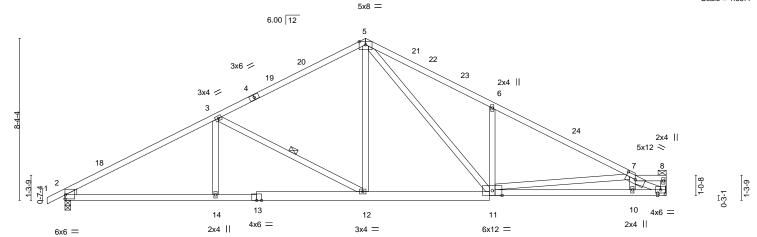
Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals, and

-0-11-0 0-11-0 7-9-3 15-6-0 21-10-10 22-5₇7 0-6-13 31-0-0 7-9-3 7-8-13 6-4-10 6-11-7

Scale = 1:59.4



	7-9-3 7-9-3	15-6-0 7-8-13	21-10-10 6-4-10	-	29-4-13 7-6-4	31-0-0 1-7-3	
Plate Offsets (X,Y) [2:Edge,0)-2-9], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1], [7:0-6-0,0-2-6]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.79 BC 0.78 WB 0.63	Vert(LL) -0.3 Vert(CT) -0.3	14 10-11 >	//defl L/d -999 240 -999 180 n/a n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 134 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

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

11-13: 2x6 SPF No.2 **WEBS** 2x4 SPF No.2

10.0

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=167(LC 15)

Max Uplift 9=-112(LC 16), 2=-141(LC 16) Max Grav 9=1387(LC 2), 2=1454(LC 2)

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

TOP CHORD 2-3=-2362/291, 3-5=-1671/277, 5-6=-2311/403, 6-7=-2308/288

BOT CHORD 2-14=-229/2016, 12-14=-229/2017, 11-12=-92/1380, 10-11=-282/2551, 9-10=-296/2537 WFBS 5-12=-12/523, 6-11=-667/192, 5-11=-189/1120, 3-14=0/272, 3-12=-761/155, 7-10=0/250,

7-11=-676/84, 7-9=-2742/312

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 30-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=112 2=141
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020





Job Qty Summit/67 Woodside Truss Truss Type Ply 143520196 2684908 АЗ Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:40 2020 Page 1 -0-11-0 0-11-0 15-6-0 31-0-0

7-8-13

7-9-3

7-8-13

Scale = 1:54.7 4x8 = 6.00 12 3x6 = 23 3x6 > 2x4 \\ 2x4 // 3 12 11 10 3x4 = 4x6 = 3x4 = 6x6 = 6x6 =31-0-0 10-4-2 10-3-13 10-4-2

Plate Offsets (X,Y)--[2:0-0-3,0-0-1], [2:0-5-0,0-0-3], [2:Edge,0-2-13], [8:0-0-3,0-0-1], [8:0-5-0,0-0-3], [8:Edge,0-2-13] LOADING (psf) SPACING-DFFI L/d **PLATES** GRIP 2-0-0 CSL in (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.18 10-12 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.84 Vert(CT) -0.42 10-12 >891 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.22 Horz(CT) 0.08 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Weight: 111 lb FT = 20% Matrix-AS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 8=0-5-8 Max Horz 2=157(LC 15) Max Uplift 2=-141(LC 16), 8=-141(LC 16) Max Grav 2=1459(LC 2), 8=1459(LC 2)

7-9-3

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

2-3=-2359/303, 3-5=-2085/327, 5-7=-2085/328, 7-8=-2359/303 TOP CHORD

BOT CHORD 2-12=-175/2015, 10-12=-44/1359, 8-10=-180/2015 WFBS 5-10=-74/763, 7-10=-517/177, 5-12=-74/763, 3-12=-517/177

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 31-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 8=141.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 6,2020





Job Summit/67 Woodside Truss Truss Type Ply Qtv 143520197 2684908 Α4 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:42 2020 Page 1 0-11-0 15-6-0 31-0-0 7-9-3 7-8-13 7-8-13 7-9-3 Scale = 1:54.3 4x8 = 6.00 12 20 3x6 / 3x6 > 2x4 \\ 2x4 // 3 11 9 10 3x4 =4x6 =3x4 =6x6 = 31-0-0 10-4-2 10-3-13 10-4-2 [2:0-0-3,0-0-1], [2:0-5-0,0-0-3], [2:Edge,0-2-13], [8:0-0-3,0-0-1], [8:0-5-0,0-0-3], [8:Edge,0-2-13] Plate Offsets (X,Y)--

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)

SPACING-DFFI L/d 2-0-0 CSL in (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.18 9-11 >999 240 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.85 Vert(CT) -0.42 9-11 >894 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.23 Horz(CT) 0.08 8 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS BCDL 10.0

MT20 197/144

PLATES

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Weight: 110 lb FT = 20%

GRIP

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 8=0-5-8 Max Horz 2=155(LC 15) Max Uplift 2=-141(LC 16), 8=-113(LC 16) Max Grav 2=1460(LC 2), 8=1394(LC 2)

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

2-3=-2361/304, 3-5=-2087/328, 5-7=-2091/334, 7-8=-2365/310 TOP CHORD

BOT CHORD 2-11=-201/2017, 9-11=-66/1361, 8-9=-195/2022

WFBS 5-9=-75/768, 7-9=-521/177, 5-11=-74/763, 3-11=-518/177

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 31-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 8=113.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 6,2020

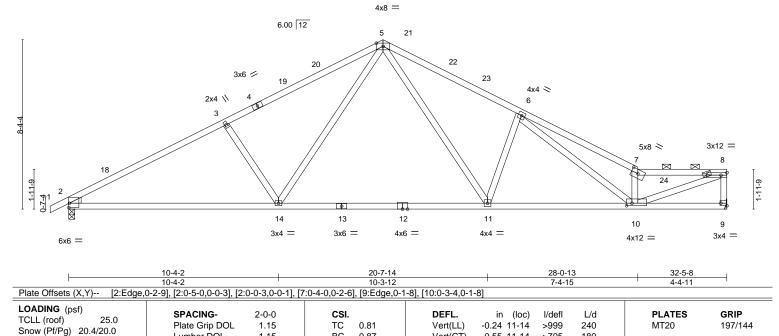




Truss Type Job Summit/67 Woodside Truss Ply Qty 143520198 2684908 Α5 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:43 2020 Page 1

ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-8bioIRvtoDTxri0UBpy3WNiiF6N0_qKIDJ8iHOyM8jM -0-11-0 0-11-0 7-9-3 15-6-0 28-0-13 32-5-8 7-9-3 7-8-13 6-8-7 5-10-7 4-4-11

Scale = 1:56.8



LUMBER-

WEDGE

TCDL

BCLL

BCDL

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

20.4/20.0

10.0

0.0

10.0

Left: 2x4 SPF No.2

REACTIONS.

(size) 9=Mechanical, 2=0-3-8

Max Horz 2=184(LC 15)

Max Uplift 9=-118(LC 16), 2=-146(LC 16) Max Grav 9=1453(LC 2), 2=1519(LC 2)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

1.15

YES

вс

WB

Matrix-AS

0.87

0.82

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.55 11-14

0.09

>705

2-0-0 oc purlins (3-0-1 max.): 7-8.

Rigid ceiling directly applied.

n/a

180

n/a

Structural wood sheathing directly applied, except end verticals, and

2-3=-2485/316, 3-5=-2210/340, 5-6=-2349/365, 6-7=-3503/433, 7-8=-3232/357, TOP CHORD

8-9=-1383/182

BOT CHORD 2-14=-284/2127, 11-14=-148/1471, 10-11=-260/2228

WEBS 3-14=-516/178, 5-14=-73/761, 5-11=-119/1107, 6-11=-775/187, 6-10=-131/1099,

7-10=-1832/269, 8-10=-376/3335

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C: Enclosed: MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=118 2=146
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 128 lb

FT = 20%

November 6,2020

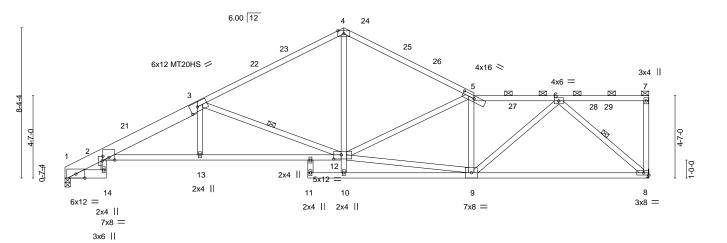




Truss Type Job Qty Summit/67 Woodside Truss Ply 143520199 2684908 Α6 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:45 2020 Page 1

 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-5_pZj7x7Krje5?AsJD?Xboo0Xw1oSkw2hddoLHyM8jK$ 2-3-8 7-6-0 15-6-0 27-5-7 32-5-8 2-3-8 5-2-8 8-0-0 7-2-13 4-8-9

> Scale: 3/16"=1" 4x8 =



2-3-0	3-2-0 0-0-0	2-0-0	1-2-13	3-0-11	
Plate Offsets (X,Y) [2:0-3-0,	0-0-7], [3:0-5-0,0-3-0], [5:0-8-0,0-1-14],	[12:0-5-0,0-2-12]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.96 BC 0.98 WB 0.81	Vert(CT) -0	in (loc) I/defl L/d 0.23 8-9 >999 240 0.51 12-13 >756 180 0.24 8 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108

LUMBER-BRACING-

Code IRC2018/TPI2014

TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-7-7 max.): 5-7. 1-3: 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied.

1-14: 2x6 SPF No.2, 8-11: 2x4 SP No.2 WEBS 3-12, 6-8 1 Row at midpt

Matrix-AS

WEBS 2x4 SPF No.2

10.0

(size)

Max Horz 1=219(LC 15)

8=Mechanical, 1=0-3-8 Max Uplift 8=-112(LC 16), 1=-106(LC 16)

Max Grav 8=1464(LC 2), 1=1471(LC 2)

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

TOP CHORD 2-16=-649/107, 2-3=-3202/358, 3-4=-2085/287, 4-5=-2027/282, 5-6=-2348/290

BOT CHORD 2-13=-477/2963, 12-13=-474/2973, 8-9=-216/1415

3-13=0/360, 3-12=-1314/236, 4-12=-76/1214, 5-9=-966/194, 6-9=-106/1256, WFBS

5-12=-747/134, 6-8=-1833/249, 9-12=-295/2294

NOTES-

REACTIONS.

BCDL

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 1 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) 8=112 1=106 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 167 lb

FT = 20%

November 6,2020





Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:48 2020 Page 1 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-VZVhL8z0dm5DyTvR_MYEDRQaw73Xf8XUNbrSybyM8jH$

7-6-0 15-6-0 20-0-13 23-6-0 27-10-0 32-5-8 2-3-8 5-2-8 8-0-0 4-6-13 3-5-3 4-4-0

Scale = 1:60.0

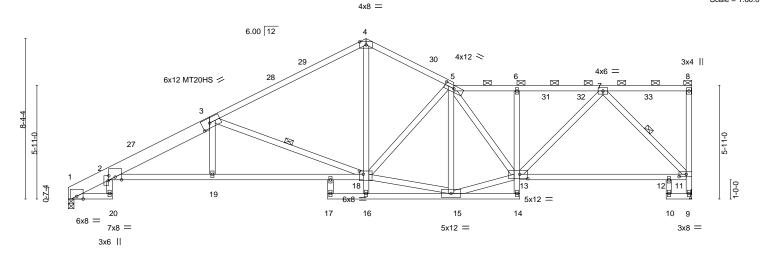


Plate Offsets (X,Y) [2:0-3-0,	0-0-7], [3:0-5-0,0-3-0], [5:0-6-0,0-1-14],	[11:0-4-8,0-1-8], [13:0-5-0),0-2-12], [18:0-2-8,0-2-0]	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.75 BC 0.98 WB 0.56 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.22 19-26 >999 240 Vert(CT) -0.51 18-19 >763 180 Horz(CT) 0.29 9 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 175 lb FT = 20%

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x8 SP 2400F 2.0E 2x4 SPF No.2

BOT CHORD

2x4 SPF No.2 WEBS

BRACING-

Structural wood sheathing directly applied, except end verticals, and TOP CHORD

2-0-0 oc purlins (3-11-0 max.): 5-8.

BOT CHORD Rigid ceiling directly applied. WEBS 3-18 7-11 1 Row at midpt

REACTIONS. 9=Mechanical, 1=0-3-8 (size)

Max Horz 1=240(LC 15)

Max Uplift 9=-113(LC 16), 1=-105(LC 16) Max Grav 9=1464(LC 2), 1=1471(LC 2)

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

TOP CHORD 2-22=-669/108, 2-3=-3210/350, 3-4=-2080/285, 4-5=-1973/279, 5-6=-2071/265,

6-7=-2088/263, 9-11=-1426/176

2-19=-533/2973, 18-19=-530/2983, 6-13=-379/65, 12-13=-216/1229, 11-12=-203/1281 BOT CHORD 3-19=0/360, 3-18=-1334/250, 15-18=-302/1981, 4-18=-110/1302, 5-18=-490/115. WFBS 13-15=-249/2031, 5-13=-47/362, 7-13=-117/1236, 7-11=-1703/244, 5-15=-945/175

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=113, 1=105.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020





Truss Type Job Summit/67 Woodside Truss Ply Qty 143520201 2684908 Α8 Roof Special 1 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:50 2020 Page 1 ID:EIQM2g7HuQ96IylwO8PYUgzGYvu-RxdSmq?G9NLxBn3q6nailsVsAxlt7_VnqvKZ1UyM8jF

17-4-13 7-6-0 13-6-0 15-6-0 24-9-7 31-1-8 32-5-8 1-4-0 2-3-8 5-2-8 6-0-0 2-0-0 1-10-13

4x8 =

Scale = 1:60.0

31-1-8

Structural wood sheathing directly applied, except end verticals, and

7-8, 3-13, 5-11, 6-10

2-0-0 oc purlins (2-2-0 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt

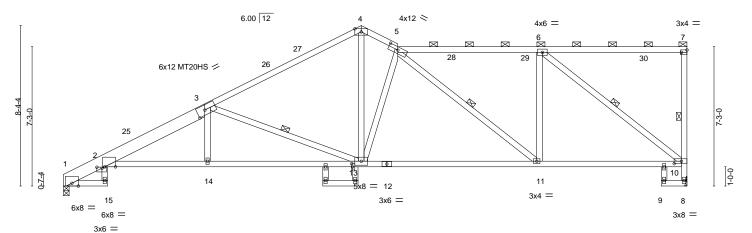


Plate Offsets (X,Y) [2:0-3-3	Plate Offsets (X,Y) [2:0-3-3,0-0-10], [2:0-6-12,0-0-0], [3:0-5-0,0-3-0], [5:0-6-0,0-1-14], [7:Edge,0-1-8], [10:0-4-8,0-1-8], [13:0-2-0,0-0-8]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.96 BC 0.92 WB 0.79	Vert(LL) -0.22 14-24 >	l/defl L/d >999 240 >915 180 n/a n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108			
BCDI 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 162 lb	FT = 20%			

TOP CHORD

BOT CHORD

WEBS

9-5-7

1-10-0

LUMBER-BRACING-

6-0-0

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x8 SP 2400F 2.0E 2x4 SPF No.2

BOT CHORD WFRS 2x4 SPF No 2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 8=Mechanical, 1=0-3-8

Max Horz 1=261(LC 15)

Max Uplift 8=-111(LC 16), 1=-113(LC 16) Max Grav 8=1482(LC 39), 1=1451(LC 2)

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

2-20=-672/96, 2-3=-3141/364, 3-4=-2039/263, 4-5=-1942/284, 5-6=-1494/228, TOP CHORD

8-10=-1458/185, 7-10=-284/59

BOT CHORD 2-14=-607/2912, 13-14=-605/2920, 11-13=-374/1944, 10-11=-265/1492 **WEBS**

3-14=0/294, 3-13=-1303/274, 5-13=-951/158, 5-11=-584/140, 6-11=-6/596,

6-10=-1856/251, 4-13=-148/1412

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-6-0, Exterior(2E) 15-6-0 to 17-4-13, Interior(1) 17-4-13 to 32-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=111, 1=113,
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Continuetroclobe@plied directly to the bottom chord.



November 6,2020





Job	Truss	Truss Type	Qty	Ply	Summit/67 Woodside
2684908	A8	Roof Special	,	,	143520201
2004906	Ao	Nooi Special	'	'	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:50 2020 Page 2 $ID: EIQM2g7 HuQ96 IylwO8 PYUgzGYvu-RxdSmq?G9 NLxBn3q6 nailsVsAxlt7_VnqvKZ1 UyM8jF$

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

MiTek[®]

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:52 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-OKICBW0Wg_bfQ4DCDCdANHaGZkR4bv24lCpg5NyM8jD

Structural wood sheathing directly applied, except end verticals, and

3-15 6-10

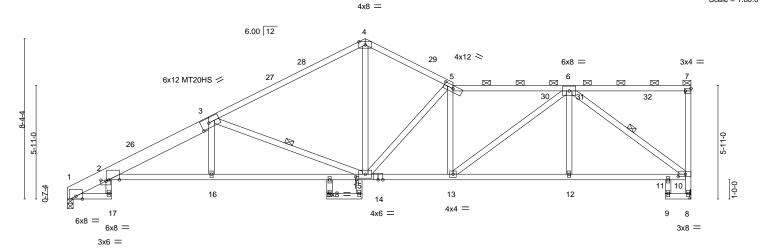
2-0-0 oc purlins (3-3-6 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt

7-6-0 13-6-0 15-6-0 20-0-13 26-1-7 31-1-8 2-0-0

Scale = 1:60.0



2-3-8	7-6-0 1 13-6-0	15-4-0	20-0-13	26-1-7	31-1-	-8 32-5-8	
2-3-8	5-2-8 6-0-0	1-10-0 0-2 ¹ 0	4-6-13	6-0-9	5-0-	1 1-4-0	
Plate Offsets (X,Y) [2:0-3-3,	0-0-10], [2:0-6-12,0-0-0], [3:0-5-0,0-3	-0], [5:0-6-0,0-1-14], [7:Edge	∍,0-1-8], [10:0-4	-8,0-1-8], [15:0-2-0,0-0-8]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.94 WB 0.72 Matrix-AS	DEFL. Vert(LL) Vert(CT Horz(CT		L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 161 lb	GRIP 197/144 148/108 FT = 20%

BOT CHORD

WEBS

15-6-0

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x8 SP 2400F 2.0E 2x4 SPF No.2

BOT CHORD WFRS 2x4 SPF No.2

REACTIONS.

8=Mechanical, 1=0-3-8 (size) Max Horz 1=240(LC 15)

Max Uplift 8=-120(LC 16), 1=-114(LC 16) Max Grav 8=1448(LC 2), 1=1450(LC 2)

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

TOP CHORD 2-21=-660/112, 2-3=-3148/377, 3-4=-2029/300, 4-5=-1962/298, 5-6=-2386/328, 8-10=-1416/179

BOT CHORD

2-16=-557/2917, 15-16=-555/2926, 13-15=-377/2369, 12-13=-259/1636, 11-12=-259/1636, 10-11=-267/1654

WFBS 3-16=0/321, 3-15=-1319/263, 5-15=-977/155, 5-13=-470/127, 6-13=-152/933,

6-12=0/271, 6-10=-1994/250, 4-15=-127/1284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=120, 1=114.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Continuetroclobe@plied directly to the bottom chord.



November 6,2020





Job	Truss	Truss Type	Qty	Ply	Summit/67 Woodside
					143520202
2684908	A9	Roof Special	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:52 2020 Page 2 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-OKICBW0Wg_bfQ4DCDCdANHaGZkR4bv24lCpg5NyM8jD

NOTES-

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:19 2020 Page 1 ID:EIQM2g7HuQ96IylwO8PYUgzGYvu-r_FkGEdpSrRLz0BsnmXQYJja5RAFM29DiaKQRnyM8jk 27-4-7 31-1-8

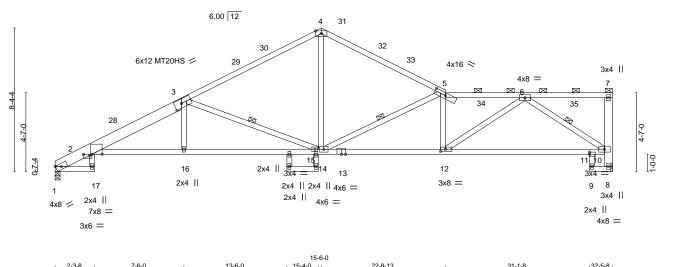
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-2-2 max.): 5-7.

7-6-0 15-6-0 32-5-8 1-4-0

4x8 =

Scale = 1:67.1



TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2

Plate Offsets (X Y)--

Rigid ceiling directly applied. 2x4 SPF No.2 *Except* WEBS WERS 3-15, 5-14, 6-10 1 Row at midpt 7-8: 2x6 SPF No.2

[2:0-4-5,0-0-13], [2:0-7-2,0-0-1], [3:0-5-0,0-3-0], [5:0-8-0,0-1-14], [11:0-0-0,0-1-8], [12:0-3-8,0-1-8]

REACTIONS. (size) 8=Mechanical, 1=0-3-8

Max Horz 1=219(LC 15)

Max Uplift 8=-118(LC 16), 1=-113(LC 16) Max Grav 8=1444(LC 2), 1=1449(LC 2)

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

2-24=-646/111, 2-3=-3131/393, 3-4=-2035/301, 4-5=-2013/300, 5-6=-2978/362, TOP CHORD

8-10=-1354/192

BOT CHORD 2-16=-510/2899, 15-16=-508/2908, 14-15=-266/1697, 12-14=-400/2947, 11-12=-278/1817,

10-11=-234/1925

3-16=0/321, 3-15=-1293/258, 5-14=-1379/192, 5-12=-656/160, 6-12=-156/1408,

6-10=-2072/301, 4-14=-90/1183

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=118 1=113
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020

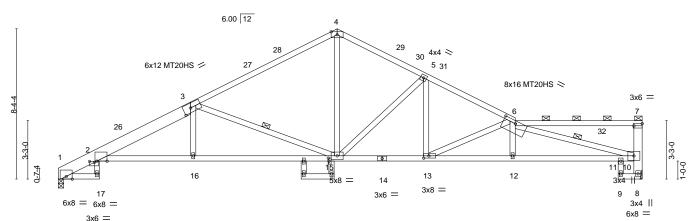




Valley Center, KS - 67147,

ID:EIQM2g7HuQ96lylwO8PYUgzGYvu-GZxsuFfilmpvqTwRTu48AyL87eC6ZHpfOYY416yM8jh 2-3-8 7-6-0 15-6-0 20-5-7 25-4-13 31-1-8 32-5-8

> Scale: 3/16"=1' 4x8 =



2-3-8	7-6-0 13-6	-0 15-4-0	20-5-7	25-4-13	ı	31-1-8	₁ 32-5-8 ₁		
2-3-8	5-2-8 6-0-	0 1-10-00-½ ^L 0	4-11-7	4-11-7		5-8-11	1-4-0		
Plate Offsets (X,Y) [2:0-3-3,0-0-10], [2:0-6-12,0-0-0], [3:0-5-0,0-3-0], [6:0-8-0,0-1-14], [7:Edge,0-1-8], [13:0-3-8,0-1-8], [15:0-2-0,0-0-8]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.94 WB 0.97 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 12-13 -0.57 15-16 0.33 8	I/defl >999 >675 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 154 lb	GRIP 197/144 148/108 FT = 20%	

15-6-0

LUMBER-**BRACING-**

Structural wood sheathing directly applied, except end verticals, and TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x8 SP 2400F 2.0E 2-0-0 oc purlins (6-0-0 max.): 6-7.

2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied.

10-14: 2x4 SPF 1650F 1.5E 3-15 6-10 WEBS 1 Row at midpt

WEBS 2x4 SPF No.2 *Except*

7-8: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 8=Mechanical, 1=0-3-8

Max Horz 1=198(LC 15)

Max Uplift 8=-118(LC 16), 1=-115(LC 16) Max Grav 8=1444(LC 2), 1=1447(LC 2)

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

2-21=-633/110, 2-3=-3137/387, 3-4=-2021/297, 4-5=-1949/312, 5-6=-2767/351, TOP CHORD

6-7=-270/38, 8-10=-1353/170, 7-10=-330/65

BOT CHORD 2-16=-442/2907, 15-16=-439/2916, 13-15=-309/2391, 12-13=-472/3874, 11-12=-477/3869,

10-11=-461/3964

WEBS 3-16=0/318, 3-15=-1317/247, 5-15=-1007/163, 5-13=-41/712, 6-13=-1602/184,

6-10=-3766/443, 4-15=-121/1244

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=118, 1=115.

Continued on page 2



November 6,2020



Job	Truss	Truss Type	Qty	Ply	Summit/67 Woodside
					143520204
2684908	A11	Roof Special	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:22 2020 Page 2 ID: EIQM2g7 HuQ96 IylwO8 PYUgzGYvu-GZxsuFfilmpvqTwRTu48 AyL87eC6 ZHpfOYY416 yM8jh

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Truss Type Job Summit/67 Woodside Truss Ply Qty 143520205 2684908 A12 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:24 2020 Page 1

 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-Cx2dJxgyGO3d3n4qaJ7cFNQXUSsC1Euyss1B6_yM8jf$

23-5-15 4-6-15 28-0-13 4-6-15 31-1-8 3-0-11

Scale = 1:59.4

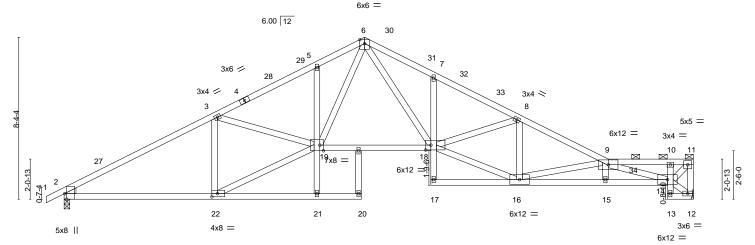


Plate Offsets (X,Y)	[2:0-0-1,0	0-0-3], [2:0-0-3,0-5-0], [2:	0-3-8,Edge], [18:0-3-4,0-3	-0], [19:0-2-4	,Edge], [22:0-3-8,0)-2-0]					
Snow (Pf/Pg) 20.4/20 TCDL 1	0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.53 0.96 0.80	DEFL. Vert(LL) Vert(CT) Horz(CT)		18-19 18-19	l/defl >999 >617 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
	0.0	Code IRC2018/TI	PI2014	Matr	ix-AS						Weight: 158 lb	FT = 20%

4-6-15

Rigid ceiling directly applied.

15-4-0 15₁6-0 18-11-0 2-3-8 0-2-0 3-5-0

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2x4 SPF No.2 *Except* BOT CHORD 2-0-0 oc purlins (4-5-4 max.): 9-11.

14-17: 2x4 SPF 1650F 1.5E **BOT CHORD WEBS** 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 12=Mechanical, 2=0-3-8

Max Horz 2=186(LC 15)

Max Uplift 12=-110(LC 16), 2=-136(LC 16) Max Grav 12=1472(LC 2), 2=1543(LC 2)

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

2-3=-2529/281, 3-5=-3087/369, 5-6=-3026/427, 6-7=-3515/477, 7-8=-3527/421, TOP CHORD

8-9=-3257/363, 9-10=-1613/175, 10-11=-1331/143, 11-12=-1382/164

BOT CHORD 2-22=-252/2157, 18-19=-181/2168, 7-18=-321/113, 15-16=-542/4930, 14-15=-549/4936 **WEBS** 3-22=-873/163, 16-18=-319/3042, 8-18=0/289, 8-16=-583/109, 9-16=-2093/234,

9-14=-3499/363, 11-14=-220/1861, 5-19=-272/107, 19-22=-278/2352, 3-19=0/587,

6-19=-175/1316, 6-18=-205/1774

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 32-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=110, 2=136.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



November 6,2020



Job	Truss	Truss Type	Qty	Ply	Summit/67 Woodside
					143520205
2684908	A12	Roof Special	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:24 2020 Page 2 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-Cx2dJxgyGO3d3n4qaJ7cFNQXUSsC1Euyss1B6_yM8jf$

NOTES-

- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Ply Job Summit/67 Woodside Truss Truss Type Qtv 143520206 2684908 A13 Common Supported Gable Job Reference (optional)

4x4 =

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:27 2020 Page 1 ID:EIQM2g7HuQ96lylwO8PYUgzGYvu-cWklxzjqZJSCwEoPFSgJt?293f78EIJOYqGrjJyM8jc 30-5-13

14-11-13

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:54.2



14 15 13 6.00 12 16 12 17 11 51 50 18 10 19 20 21 3x6 / 22 3x6 < 23 3x8 || 24 25 26 0-10-5 3x8 || 39 38 48 45 43 42 40 36 35 33 32 31 30 29 28 27 3x6 =30-5-13

[2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge], [39:0-2-14,0-1-8] Plate Offsets (X,Y)--LOADING (psf) DEFL GRIP SPACING-2-0-0 CSL in (loc) I/defl L/d **PLATES** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 n/r 120 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.05 Vert(CT) 0.00 n/r 120 **TCDL** 10.0 WB 0.18 Rep Stress Incr YES Horz(CT) 0.00 27 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 180 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

REACTIONS. All bearings 30-5-13.

Max Horz 2=166(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 40, 41, 42, 43, 44, 45, 46, 47,

48, 49, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

All reactions 250 lb or less at joint(s) 27, 2, 38, 40, 41, 42, 43, 44, 45, Max Grav

46, 47, 48, 49, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

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

TOP CHORD 13-14=-106/252, 14-15=-106/252

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-2-0, Exterior(2N) 2-2-0 to 15-6-0, Corner(3R) 15-6-0 to 18-6-0, Exterior(2N) 18-6-0 to 30-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28,
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



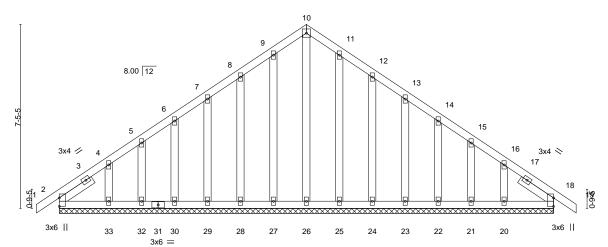
Job Summit/67 Woodside Truss Truss Type Ply Qtv 143520207 2684908 C1 Common Supported Gable Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:54 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-KjszcC2mCcrNgOMbLcfeTifnMYLn3ynNlWInAFyM8jB

0-11-0 10-0-0 20-0-0 20-11-0 0-11-0 10-0-0 10-0-0 4x4 =

Scale = 1:46.6



20-0-0 20-0-0 LOADING (psf) SPACING-**PLATES** GRIP CSI. **DEFL** 2-0-0 in (loc) I/defl I/d TCLL (roof) 25.0 Plate Grip DOL 197/144 1.15 TC 0.05 Vert(LL) -0.0018 n/r 120 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 18 n/r 120 TCDL 10.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 18 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 116 lb FT = 20% Matrix-S 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 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 1-7-8, Right 2x4 SPF No.2 1-7-8

REACTIONS. All bearings 20-0-0.

Max Horz 2=155(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 32, 33, 25, 24, 23, 22, 21, 20

Max Grav All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 32, 33, 25, 24, 23, 22, 21, 20, 18

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 28, 29, 30, 32, 33, 25, 24, 23, 22, 21, 20.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020





Job Qty Summit/67 Woodside Truss Truss Type Ply 143520208 2684908 C2 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:56 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-G5_j1t31kD55viW_S1h6Y7l40LsuXr1fDqnuE8yM8j9 -0-11-0 0-11-0 5-1-12 10-0-0 14-10-4 20-0-0 20-11-0 5-1-12 4-10-4 4-10-4 5-1-12 Scale = 1:46.0 4x6 = 8.00 12 2x4 💉 2x4 // 6 3x4 / ₇3x4 ≫ 10 6x8 = 4x8 ||

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

10-0-0 10-0-0 10-0-0 Plate Offsets (X,Y)-- [10:0-4-0,Edge] LOADING (psf)

CSI. SPACING-2-0-0 DEFL in (loc) I/defl L/d TCLL (roof) Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.13 10-13 >999 240 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.69 Vert(CT) -0.27 10-13 >893 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.02 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS BCDL 10.0

PI ATES GRIP MT20 197/144

> Weight: 80 lb FT = 20%

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

4x8 |

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=155(LC 13)

Max Uplift 2=-101(LC 14), 8=-101(LC 14) Max Grav 2=964(LC 2), 8=964(LC 2)

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

2-4=-1008/171, 4-5=-897/166, 5-6=-897/166, 6-8=-1008/171 TOP CHORD

BOT CHORD 2-10=-55/892, 8-10=-58/892

WEBS 5-10=-66/545, 6-10=-312/129, 4-10=-312/129

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 8=101.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qty 143520209 GABLE 2684908 СЗ Job Reference (optional)

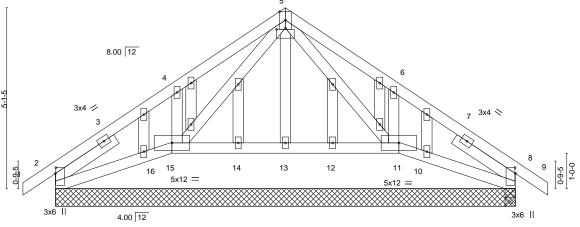
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:57 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-kIY5ED4fVXDxXr5A0lCL4KHGalK2GLbpSUXRnayM8j8 13-11-0 9-8-8 13-0-0

0-11-0 6-6-0 3-3-8 3-2-8 3-2-8 3-3-8 0-11-0

3x6 =

Scale = 1:32.6 4x6 ||



13-0-0 3-3-8 6-5-0 3-3-8

Flate Offsets (A, I) [2.0-2-0,	Frace Offsets (A, 1)** [2.0-2-0,0-0-2], [3.0-3-0,0-0-0], [6.0-0-0,0-0-0], [6.0-2-0,0-0-2], [2.1.0-0-0,0-0-0], [2.2.0-0-0,0-0-0]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.12 BC 0.18	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 15 >999 240 MT20 197/144 Vert(CT) -0.01 15 >999 180	<u> </u>				
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-S	Horz(CT) 0.01 8 n/a n/a Weight: 69 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.

2x4 SPF No.2 WEBS OTHERS 2x4 SPF No 2

SLIDER Left 2x4 SPF No.2 2-1-3, Right 2x4 SPF No.2 2-1-3

REACTIONS. All bearings 13-0-0.

(lb) - Max Horz 2=105(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 8, 13, 16

Max Grav All reactions 250 lb or less at joint(s) 8, 8, 13, 14, 16, 12, 10 except 2=279(LC 2), 11=366(LC 2)

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

2-4=-336/97, 4-5=-313/210 TOP CHORD

BOT CHORD 2-16=-34/260 WFBS 6-11=-257/160

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-12, Interior(1) 9-6-12 to 13-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 8, 13, 16.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020





Job Summit/67 Woodside Truss Truss Type Ply Qty 143520210 2684908 C4 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:49:59 2020 Page 1 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-gggsfv6v18Ufm9FY7AFpAINa6ZylkD06vo0YrTyM8j6$ 0-11-0 6-6-0 13-11-0

4x6 ||

3-2-8

8.00 12 2x4 || 3x4 🖊 3x4 <>

> 10 5x12 =

3-2-8

3-3-8

0-11-0

3x8 ||

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:32.7

3-3-8

[2:0-5-2,Edge], [6:0-0-0,0-0-0], [8:0-0-0,0-0-0], [8:0-5-2,Edge] Plate Offsets (X,Y)--LOADING (psf) DEFL **PLATES** GRIP SPACING-2-0-0 CSL in (loc) I/defl L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.24 Vert(LL) -0.07 10-11 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.39 Vert(CT) -0.17 10-11 >921 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.06 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 54 lb FT = 20% BCDL 10.0

BOT CHORD

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

4.00 12

3-3-8

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

SLIDER Left 2x4 SPF No.2 1-10-0, Right 2x4 SPF No.2 1-10-0

3x8 ||

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=105(LC 13)

Max Uplift 2=-75(LC 14), 8=-75(LC 14) Max Grav 2=649(LC 2), 8=649(LC 2)

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

TOP CHORD 2-4=-1087/171, 4-5=-1032/273, 5-6=-1033/279, 6-8=-1087/175

BOT CHORD 2-11=-67/886, 10-11=0/494, 8-10=-78/876

WEBS 5-11=-144/570, 5-10=-148/537

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-12, Interior(1) 9-6-12 to 13-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5x12 =

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

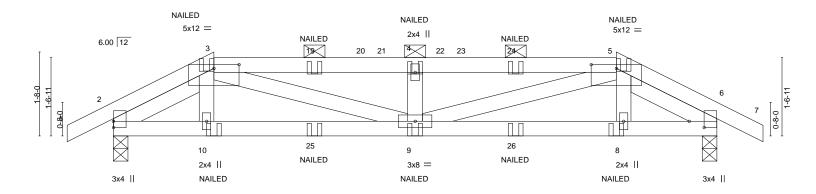


November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qtv 143520211 2684908 D1 Hip Girder 1 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:02 2020 Page 1 ID:2gjJ0LyjzZmYPRpPutoMbQzFwGX-5FL_Hx8oK3sEddz7ploWnO?4bm0oxZpYbmECSoyM8j3 -0-11-0 2-0-0 6-0-0 10-0-0 12-0-0 12-11-0 0-11-0 2-0-0 4-0-0 2-0-0 0-11-0

Scale = 1:22.9



	2-0-	·	0-0-0				10-0-0				12-0-0	
	2-0-	-0 '	4-0-0)	'		4-0-0				2-0-0	
Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-1-8,0-0-1], [3:0-6-0,0-0-15], [5:0-6-0,0-0-15], [6:0-1-8,0-3-9]											
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20.4 TCDL BCLL BCDL	25.0 4/20.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TR	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.: BC 0.: WB 0. Matrix-M	.28 .19	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.08 0.01	(loc) 9 9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 48 lb	GRIP 197/144 FT = 20%

10-0-0

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (4-6-4 max.): 3-5. 2x4 SPF No.2 **BOT CHORD** WEBS

6-0-0

Rigid ceiling directly applied or 10-0-0 oc bracing. SLIDER Left 2x4 SPF No.2 1-11-3, Right 2x4 SPF No.2 1-11-3

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-27(LC 10)

2-0-0

Max Uplift 2=-75(LC 12), 6=-75(LC 12) Max Grav 2=599(LC 2), 6=599(LC 2)

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

TOP CHORD 2-3=-282/32, 3-4=-1511/126, 4-5=-1511/126, 5-6=-282/32 2-10=-33/769, 9-10=-36/764, 8-9=-35/764, 6-8=-32/769 **BOT CHORD**

3-9=-68/783, 4-9=-419/80, 5-9=-68/783 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-51, 3-5=-61, 5-7=-51, 11-15=-20

SCOTT M. SEVIER PE-2001018807 SSIONAL

OF MISS

12-0-0

November 6,2020

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	Summit/67 Woodside
					143520211
2684908	D1	Hip Girder	1	1	Lab Defense of (anti-mall)
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:02 2020 Page 2 $ID:2gjJ0LyjzZmYPRpPutoMbQzFwGX-5FL_Hx8oK3sEddz7ploWnO?4bm0oxZpYbmECSoyM8j3$

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=1(B) 9=0(B) 8=1(B) 25=0(B) 26=0(B)

Job Summit/67 Woodside Truss Truss Type Ply Qty 143520212 2684908 D2 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:04 2020 Page 1 ID:2gjJ0LyjzZmYPRpPutoMbQzFwGX-1eTkic92sg6ytw7Wwjr_to4Q6aizPWmr34jJWgyM8j1 -0-11-0 4-0-0 8-0-0 12-0-0

4-0-0

Scale = 1:22.9

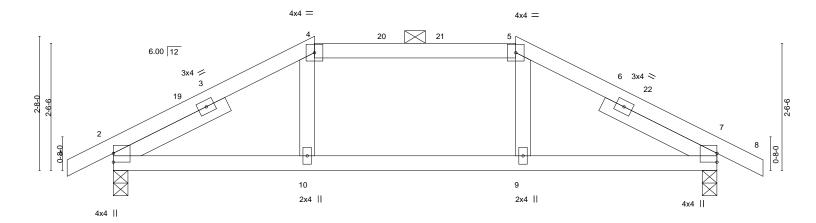
0-11-0

4-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied.



	4-0-0 4-0-0	8-0-0 4-0-0		+	12-0-0 4-0-0		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.29 BC 0.23 WB 0.03 Matrix-AS	DEFL. Image: square of the control of the	5 9	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 41 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

0 - 11 - 0

WFBS 2x4 SPF No.2

Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 SLIDER

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=46(LC 15)

Max Uplift 2=-72(LC 16), 7=-72(LC 16) Max Grav 2=608(LC 39), 7=608(LC 39)

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

4-0-0

2-4=-687/235, 4-5=-643/234, 5-7=-687/235 TOP CHORD **BOT CHORD** 2-10=-126/648, 9-10=-127/643, 7-9=-125/648

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-0-0, Exterior(2E) 4-0-0 to 8-0-0 , Exterior(2R) 8-0-0 to 12-0-0, Interior(1) 12-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



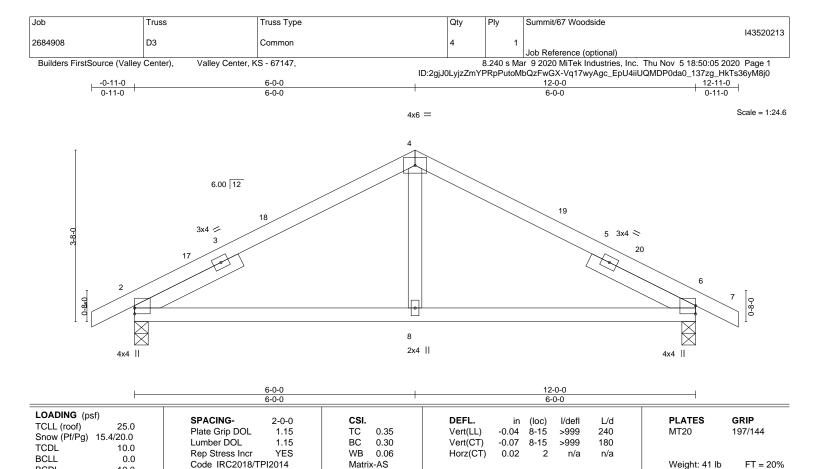
November 6,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

BCDL

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

WFBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 6=0-3-8

10.0

Max Horz 2=66(LC 15)

Max Uplift 2=-72(LC 16), 6=-72(LC 16) Max Grav 2=604(LC 2), 6=604(LC 2)

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

2-4=-620/237, 4-6=-620/237 TOP CHORD **BOT CHORD** 2-8=-95/547, 6-8=-95/547

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0 Interior(1) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 6,2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Summit/67 Woodside Job Truss Truss Type Qtv 143520214 2684908 GR1 Roof Special Girder 2 Job Reference (optional)

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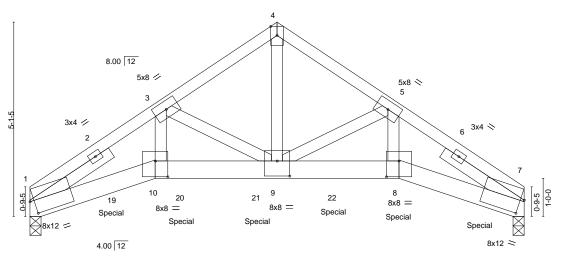
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:46:59 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-UIKJvPBfNAkJd_zCHIV5roRv2kcirAdxo7GTqzyLxaA

6-6-0 9-8-8 13-0-0 3-3-8 3-2-8 3-2-8 3-3-8

> Scale = 1:30.3 4x6 ||

> > Structural wood sheathing directly applied or 3-1-11 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



6-6-0 9-8-8 13-0-0

Plate Offsets (X,Y)	[1:0-1-5,0-4-4], [5:0-0-0,0-0-0], [7:0)-1-3,0-4-12], [7:0-0-0,0-0-0], [8:0-4-	-0,0-5-0], [9:0-4-0,0-4-12], [10:0-4-0,0-5-0]

LOADING (psf) TCLL (roof) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.75	DEFL. Vert(LL)	in (loc) -0.11 8-9	I/defl >999	L/d 240	PLATES MT20	GRIP 197/144
Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.52 WB 0.71	Vert(CT) Horz(CT)	-0.20 8-9 0.14 7	>785 n/a	180 n/a	20	,
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 124 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-92(LC 8)

> Max Uplift 1=-386(LC 10), 7=-438(LC 10) Max Grav 1=4395(LC 2), 7=4980(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-5347/479, 2-3=-9102/814, 3-4=-5667/531, 4-5=-5666/531, 5-6=-9319/833, 6-7=-5497/492

BOT CHORD 1-19=-620/7353, 10-19=-655/7791, 10-20=-594/7080, 20-21=-594/7080, 9-21=-594/7080, 9-22=-608/7240, 8-22=-608/7240, 7-8=-660/7818

WFBS 3-10=-277/3403, 3-9=-2676/282, 4-9=-518/5813, 5-9=-2857/298, 5-8=-295/3615

NOTES-

1) 2-ply truss to be connected together as follows:

Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-4-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-5-0 oc. Web connected with 10d (0.148"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 1, 7 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 386 lb uplift at joint 1 and 438 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1367 lb down and 133 lb up at 2-0-0, 1367 lb down and 133 lb up at 4-0-0, 1367 lb down and 134 lb up at 6-0-0, 1367 lb down and 134 lb up at 8-0-0, and 1367 lb down and 133 lb up at 9-8-8, and 1367 lb down and 132 lb up at 12-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



November 6,2020

OAD CASE(S)



Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:00 2020 Page 2 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-yUth6lCl8TsAF8YOr?0KO0z4o8yxadt41n?0NQyLxa9

LOAD CASE(S)

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

Uniform Loads (plf)

Vert: 1-4=-51, 4-7=-51, 10-11=-20, 8-10=-20, 8-15=-20

Concentrated Loads (lb)

Vert: 8=-1187(B) 17=-1286(B) 19=-1241(B) 20=-1121(B) 21=-1150(B) 22=-1132(B)

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 10-11=-20, 8-10=-20, 8-15=-20

Concentrated Loads (lb)

Vert: 8=-1367(B) 17=-1367(B) 19=-1367(B) 20=-1367(B) 21=-1367(B) 22=-1367(B)

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-58, 4-7=-58, 10-11=-20, 8-10=-20, 8-15=-20

Concentrated Loads (lb)

Vert: 8=-1175(B) 17=-1175(B) 19=-1175(B) 20=-1175(B) 21=-1175(B) 22=-1175(B)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-43, 4-7=-43, 10-11=-20, 8-10=-20, 8-15=-20

Concentrated Loads (lb)

Vert: 8=-1039(B) 17=-1114(B) 19=-1080(B) 20=-990(B) 21=-1011(B) 22=-998(B)

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-20, 10-11=-40, 8-10=-40, 8-15=-40

Concentrated Loads (lb)

Vert: 8=-885(B) 17=-885(B) 19=-885(B) 20=-885(B) 21=-885(B) 22=-885(B)

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-2, 4-7=8, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-10, 4-7=20

Concentrated Loads (lb)

Vert: 8=121(B) 17=121(B) 19=121(B) 20=122(B) 21=122(B) 22=122(B)

7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-4=8, 4-7=-2, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-20, 4-7=10

Concentrated Loads (lb)

Vert: 8=121(B) 17=121(B) 19=121(B) 20=122(B) 21=122(B) 22=122(B)

8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-32, 4-7=-10, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=12, 4-7=10

Concentrated Loads (lb)

Vert: 8=133(B) 17=132(B) 19=133(B) 20=133(B) 21=134(B) 22=134(B)

9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-10, 4-7=-32, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=-10, 4-7=-12

Concentrated Loads (lb)

Vert: 8=133(B) 17=132(B) 19=133(B) 20=133(B) 21=134(B) 22=134(B)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=16, 4-7=16, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-28, 4-7=28

Concentrated Loads (lb)

Vert: 8=121(B) 17=121(B) 19=121(B) 20=122(B) 21=122(B) 22=122(B)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=1, 4-7=1, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-13, 4-7=13

Concentrated Loads (lb)

Vert: 8=121(B) 17=121(B) 19=121(B) 20=122(B) 21=122(B) 22=122(B)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-21, 4-7=-21, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=133(B) 17=132(B) 19=133(B) 20=133(B) 21=134(B) 22=134(B)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-21, 4-7=-21, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=133(B) 17=132(B) 19=133(B) 20=133(B) 21=134(B) 22=134(B)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-20, 10-11=-20, 8-10=-20, 8-15=-20



Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:00 2020 Page 3 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-yUth6lCl8TsAF8YOr?0KO0z4o8yxadt41n?0NQyLxa9

LOAD CASE(S)

```
Concentrated Loads (lb)
```

Vert: 8=-597(B) 17=-597(B) 19=-597(B) 20=-597(B) 21=-597(B) 22=-597(B)

15) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-52, 4-7=-36, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=9, 4-7=7

Concentrated Loads (lb) Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

16) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-4=-36, 4-7=-52, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=-7, 4-7=-9

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-44, 4-7=-44, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-44, 4-7=-44, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-66, 4-7=-50, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=9, 4-7=7

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-50, 4-7=-66, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=-7, 4-7=-9

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-58, 4-7=-58, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-58, 4-7=-58, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=26(B) 17=26(B) 19=26(B) 20=26(B) 21=27(B) 22=27(B)

23) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-17, 4-7=-12, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=5

Concentrated Loads (lb)

Vert: 8=40(B) 17=39(B) 19=40(B) 20=40(B) 21=41(B) 22=41(B)

24) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-12, 4-7=-17, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 4-7=-5

Concentrated Loads (lb)

Vert: 8=40(B) 17=39(B) 19=40(B) 20=40(B) 21=41(B) 22=41(B)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-20, 10-11=-20, 8-10=-20, 8-15=-20

Concentrated Loads (lb)

Vert: 8=-1367(B) 17=-1367(B) 19=-1367(B) 20=-1367(B) 21=-1367(B) 22=-1367(B)

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-70, 10-11=-20, 8-10=-20, 8-15=-20

Concentrated Loads (lb)

Vert: 8=-1367(B) 17=-1367(B) 19=-1367(B) 20=-1367(B) 21=-1367(B) 22=-1367(B)

27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-58, 4-7=-20, 10-11=-20, 8-10=-20, 8-15=-20





Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:00 2020 Page 4 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-yUth6lCl8TsAF8YOr?0KO0z4o8yxadt41n?0NQyLxa9

LOAD CASE(S)

```
Concentrated Loads (lb)
```

Vert: 8=-1175(B) 17=-1175(B) 19=-1175(B) 20=-1175(B) 21=-1175(B) 22=-1175(B)

28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-58, 10-11=-20, 8-10=-20, 8-15=-20,

Concentrated Loads (lb)

Vert: 8=-1175(B) 17=-1175(B) 19=-1175(B) 20=-1175(B) 21=-1175(B) 22=-1175(B)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-2, 4-7=8, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-10, 4-7=20

Concentrated Loads (lb)

Vert: 8=-641(B) 17=-658(B) 19=-649(B) 20=-639(B) 21=-642(B) 22=-640(B)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=8, 4-7=-2, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-20, 4-7=10

Concentrated Loads (lb)

Vert: 8=-641(B) 17=-658(B) 19=-649(B) 20=-639(B) 21=-642(B) 22=-640(B)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-32, 4-7=-10, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=12, 4-7=10

Concentrated Loads (lb)

Vert: 8=-630(B) 17=-646(B) 19=-638(B) 20=-628(B) 21=-631(B) 22=-628(B)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-10, 4-7=-32, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=-10, 4-7=-12

Concentrated Loads (lb)

Vert: 8=-630(B) 17=-646(B) 19=-638(B) 20=-628(B) 21=-631(B) 22=-628(B)

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-4=16, 4-7=16, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-28, 4-7=28

Concentrated Loads (lb)

Vert: 8=-641(B) 17=-658(B) 19=-649(B) 20=-639(B) 21=-642(B) 22=-640(B)

34) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=1, 4-7=1, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=-13, 4-7=13

Concentrated Loads (lb)

Vert: 8=-641(B) 17=-658(B) 19=-649(B) 20=-639(B) 21=-642(B) 22=-640(B)

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-21, 4-7=-21, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=-630(B) 17=-646(B) 19=-638(B) 20=-628(B) 21=-631(B) 22=-628(B)

36) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-21, 4-7=-21, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=-630(B) 17=-646(B) 19=-638(B) 20=-628(B) 21=-631(B) 22=-628(B)

37) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-52, 4-7=-36, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=9, 4-7=7

Concentrated Loads (lb)

Vert: 8=-953(B) 17=-1022(B) 19=-990(B) 20=-915(B) 21=-933(B) 22=-921(B)

38) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-36, 4-7=-52, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=-7, 4-7=-9 Concentrated Loads (lb)

Vert: 8=-953(B) 17=-1022(B) 19=-990(B) 20=-915(B) 21=-933(B) 22=-921(B)

39) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-44, 4-7=-44, 10-11=-20, 8-10=-20, 8-15=-20 Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=-953(B) 17=-1022(B) 19=-990(B) 20=-915(B) 21=-933(B) 22=-921(B)

40) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



Job	Truss	Truss Type	Qty	Ply	Summit/67 Woodside
2684908	GR1	Roof Special Girder	1	_	I43520214
200,000	O.C.	Troof opeoids circus	ļ ·	2	Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:00 2020 Page 5 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-yUth6lCl8TsAF8YOr?0KO0z4o8yxadt41n?0NQyLxa9

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-4=-44, 4-7=-44, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=-953(B) 17=-1022(B) 19=-990(B) 20=-915(B) 21=-933(B) 22=-921(B)

41) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-66, 4-7=-50, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=9, 4-7=7

Concentrated Loads (lb)

Vert: 8=-1055(B) 17=-1067(B) 19=-1061(B) 20=-1053(B) 21=-1056(B) 22=-1054(B)

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-50, 4-7=-66, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=-7, 4-7=-9

Concentrated Loads (lb)

Vert: 8=-1055(B) 17=-1067(B) 19=-1061(B) 20=-1053(B) 21=-1056(B) 22=-1054(B)

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-58, 4-7=-58, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=-1055(B) 17=-1067(B) 19=-1061(B) 20=-1053(B) 21=-1056(B) 22=-1054(B)

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-58, 4-7=-58, 10-11=-20, 8-10=-20, 8-15=-20

Horz: 1-4=1, 4-7=-1

Concentrated Loads (lb)

Vert: 8=-1055(B) 17=-1067(B) 19=-1061(B) 20=-1053(B) 21=-1056(B) 22=-1054(B)

45) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-17, 4-7=-12, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 1-4=5

Concentrated Loads (lb)

Vert: 8=-560(B) 17=-576(B) 19=-568(B) 20=-558(B) 21=-561(B) 22=-558(B)

46) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-12, 4-7=-17, 10-11=-8, 8-10=-8, 8-15=-8

Horz: 4-7=-5

Concentrated Loads (lb) Vert: 8=-560(B) 17=-576(B) 19=-568(B) 20=-558(B) 21=-561(B) 22=-558(B)

Ply Summit/67 Woodside Job Truss Truss Type Qtv 143520215 2684908 GR2 Common Girder 2 Job Reference (optional)

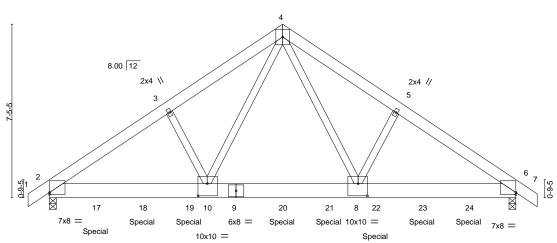
7x8 ||

Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:22 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-JjC0kHT5yEd2tWDd7dPUHfuxD?TbkaSK4CKA78yLxZp

-0-11-0 0-11-0 10-0-0 14-10-4 20-0-0 20-11-0 5-1-12 5-1-12 4-10-4 4-10-4 5-1-12 0-11-0

Scale = 1:49.4



13-2-13 20-0-0 6-9-3 6-9-3

Special

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

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.36 BC 0.48 WB 0.70 Matrix-MS		8-10 8-10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 268 lb	GRIP 197/144 FT = 20%
--	--	--	--	--------------	-------------------------------	--------------------------	----------------------------------	-------------------------------

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x8 SP 2400F 2.0E **WEBS** 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-1 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-155(LC 8)

Max Uplift 2=-656(LC 10), 6=-658(LC 10) Max Grav 2=7430(LC 2), 6=7432(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-9907/878, 3-4=-9766/927, 4-5=-9783/923, 5-6=-9924/874, 6-7=0/36

BOT CHORD 2-17=-644/8197, 17-18=-644/8197, 18-19=-644/8197, 10-19=-644/8197, 9-10=-372/5658, 9-20=-372/5658,

20-21=-372/5658, 8-21=-372/5658, 8-22=-641/8210, 22-23=-641/8210, 23-24=-641/8210, 6-24=-641/8210

WEBS 4-8=-510/5743, 5-8=-297/139, 4-10=-518/5711, 3-10=-297/138

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 656 lb uplift at joint 2 and 658 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1452 lb down and 130 lb up at 2-0-0, 1424 lb down and 138 lb up at 4-0-0, 1424 lb down and 138 lb up at 6-0-0, 1428 lb down and 140 lb up at 8-0-0, 1462 lb down and 131 lb up at 10-0-0, 1444 lb down and 133 lb up at 12-0-0, 1444 lb down and 132 lb up at 14-0-0, and 1433 lb down and 138 lb up at 16-0-0, and 1433 lb down and 138 lb up at 18-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



November 6,2020

OAD CASE(S)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chore 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



8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:22 2020 Page 2 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-JjC0kHT5yEd2tWDd7dPUHfuxD?TbkaSK4CKA78yLxZp

Builders First Source, Valley Center, KS 67147 LOAD CASE(S) 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-51, 4-7=-51, 11-14=-20 Concentrated Loads (lb) Vert: 9=-1349(F) 17=-1273(F) 18=-1177(F) 19=-1241(F) 20=-1462(F) 21=-1366(F) 22=-1263(F) 23=-1254(F) 24=-1254(F) 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-70, 4-7=-70, 11-14=-20 Concentrated Loads (lb) Vert: 9=-1428(F) 17=-1452(F) 18=-1424(F) 19=-1424(F) 20=-1451(F) 21=-1444(F) 22=-1444(F) 23=-1433(F) 24=-1433(F) 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-58, 4-7=-58, 11-14=-20 Concentrated Loads (lb) Vert: 9=-1227(F) 17=-1250(F) 18=-1223(F) 19=-1223(F) 20=-1250(F) 21=-1243(F) 22=-1243(F) 23=-1231(F) 24=-1231(F) 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-43, 4-7=-43, 11-14=-20 Concentrated Loads (lb) Vert: 9=-1168(F) 17=-1116(F) 18=-1038(F) 19=-1086(F) 20=-1258(F) 21=-1184(F) 22=-1107(F) 23=-1097(F) 24=-1097(F) 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-4=-20, 4-7=-20, 11-14=-40 Concentrated Loads (lb) Vert: 9=-925(F) 17=-967(F) 18=-923(F) 19=-923(F) 20=-972(F) 21=-958(F) 22=-958(F) 23=-929(F) 24=-929(F) 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=13, 2-4=-2, 4-6=8, 6-7=3, 11-14=-8 Horz: 1-2=-25, 2-4=-10, 4-6=20, 6-7=15 Concentrated Loads (lb) Vert: 9=128(F) 17=118(F) 18=126(F) 19=127(F) 20=120(F) 21=121(F) 22=120(F) 23=126(F) 24=126(F) 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-4=8, 4-6=-2, 6-7=13, 11-14=-8 Horz: 1-2=-15, 2-4=-20, 4-6=10, 6-7=25 Concentrated Loads (lb) Vert: 9=128(F) 17=118(F) 18=126(F) 19=127(F) 20=120(F) 21=121(F) 22=120(F) 23=126(F) 24=126(F) 8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-4=-32, 4-6=-10, 6-7=-5, 11-14=-20 Horz: 1-2=6, 2-4=12, 4-6=10, 6-7=15 Concentrated Loads (lb) Vert: 9=140(F) 17=130(F) 18=138(F) 19=138(F) 20=131(F) 21=133(F) 22=132(F) 23=138(F) 24=138(F) 9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-5, 2-4=-10, 4-6=-32, 6-7=-26, 11-14=-20 Horz: 1-2=-15, 2-4=-10, 4-6=-12, 6-7=-6 Concentrated Loads (lb) Vert: 9=140(F) 17=130(F) 18=138(F) 19=138(F) 20=131(F) 21=133(F) 22=132(F) 23=138(F) 24=138(F) 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=30, 2-4=16, 4-6=16, 6-7=30, 11-14=-8 Horz: 1-2=-42, 2-4=-28, 4-6=28, 6-7=42 Concentrated Loads (lb) Vert: 9=128(F) 17=118(F) 18=126(F) 19=127(F) 20=120(F) 21=121(F) 22=120(F) 23=126(F) 24=126(F) 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=15, 2-4=1, 4-6=1, 6-7=15, 11-14=-8 Horz: 1-2=-27, 2-4=-13, 4-6=13, 6-7=27 Concentrated Loads (lb) Vert: 9=128(F) 17=118(F) 18=126(F) 19=127(F) 20=120(F) 21=121(F) 22=120(F) 23=126(F) 24=126(F) 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 11-14=-20 Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4 Concentrated Loads (lb) Vert: 9=140(F) 17=130(F) 18=138(F) 19=138(F) 20=131(F) 21=133(F) 22=132(F) 23=138(F) 24=138(F) 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 11-14=-20

Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

Concentrated Loads (lb)

Vert: 9=140(F) 17=130(F) 18=138(F) 19=138(F) 20=131(F) 21=133(F) 22=132(F) 23=138(F) 24=138(F)

14) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-20, 4-6=-20, 6-7=-51, 11-14=-20







8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:22 2020 Page 3 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-JjC0kHT5yEd2tWDd7dPUHfuxD?TbkaSK4CKA78yLxZp

LOAD CASE(S)

```
Concentrated Loads (lb)
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Vert: 9=-624(F) 17=-645(F) 18=-622(F) 19=-622(F) 20=-647(F) 21=-640(F) 22=-640(F) 23=-626(F) 24=-626(F)

15) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-4=-20 4-7=-20 11-14=-20

Concentrated Loads (lb)

Vert: 9=-624(F) 17=-645(F) 18=-622(F) 19=-622(F) 20=-647(F) 21=-640(F) 22=-640(F) 23=-626(F) 24=-626(F)

16) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-48, 2-4=-52, 4-6=-36, 6-7=-32, 11-14=-20

Horz: 1-2=5, 2-4=9, 4-6=7, 6-7=11

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-32, 2-4=-36, 4-6=-52, 6-7=-48, 11-14=-20

Horz: 1-2=-11, 2-4=-7, 4-6=-9, 6-7=-5

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-4=-44, 4-6=-44, 6-7=-40, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-4=-44, 4-6=-44, 6-7=-40, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=-62, 2-4=-66, 4-6=-50, 6-7=-46, 11-14=-20

Horz: 1-2=5, 2-4=9, 4-6=7, 6-7=11

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-46, 2-4=-50, 4-6=-66, 6-7=-62, 11-14=-20

Horz: 1-2=-11, 2-4=-7, 4-6=-9, 6-7=-5

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-58, 4-6=-58, 6-7=-54, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-58, 4-6=-58, 6-7=-54, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=28(F) 17=18(F) 18=26(F) 19=27(F) 20=19(F) 21=21(F) 22=20(F) 23=26(F) 24=26(F)

24) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12. 2-4=-17. 4-7=-12. 11-14=-8

Horz: 2-4=5

Concentrated Loads (lb)

Vert: 9=43(F) 17=33(F) 18=41(F) 19=42(F) 20=35(F) 21=36(F) 22=35(F) 23=41(F) 24=41(F)

25) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-12, 4-6=-17, 6-7=-12, 11-14=-8

Horz: 4-6=-5

Concentrated Loads (lb)

Vert: 9=43(F) 17=33(F) 18=41(F) 19=42(F) 20=35(F) 21=36(F) 22=35(F) 23=41(F) 24=41(F)

26) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 9=-1428(F) 17=-1452(F) 18=-1424(F) 19=-1424(F) 20=-1451(F) 21=-1444(F) 22=-1444(F) 23=-1433(F) 24=-1433(F)

27) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-70, 11-14=-20



8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:22 2020 Page 4 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-JjC0kHT5yEd2tWDd7dPUHfuxD?TbkaSK4CKA78yLxZp

LOAD CASE(S)

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Concentrated Loads (lb)
```

Vert: 9=-1428(F) 17=-1452(F) 18=-1424(F) 19=-1424(F) 20=-1451(F) 21=-1444(F) 22=-1444(F) 23=-1433(F) 24=-1433(F)

28) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-58 4-7=-20 11-14=-20

Concentrated Loads (lb)

Vert: 9=-1227(F) 17=-1250(F) 18=-1223(F) 19=-1223(F) 20=-1250(F) 21=-1243(F) 22=-1243(F) 23=-1231(F) 24=-1231(F)

29) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-58, 11-14=-20

Concentrated Loads (lb)

Vert: 9=-1227(F) 17=-1250(F) 18=-1223(F) 19=-1223(F) 20=-1250(F) 21=-1243(F) 22=-1243(F) 23=-1231(F) 24=-1231(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=13. 2-4=-2. 4-6=8. 6-7=3. 11-14=-8

Horz: 1-2=-25, 2-4=-10, 4-6=20, 6-7=15

Concentrated Loads (lb)

Vert: 9=-683(F) 17=-698(F) 18=-665(F) 19=-668(F) 20=-718(F) 21=-699(F) 22=-686(F) 23=-679(F) 24=-679(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-4=8, 4-6=-2, 6-7=13, 11-14=-8

Horz: 1-2=-15, 2-4=-20, 4-6=10, 6-7=25

Concentrated Loads (lb)

Vert: 9=-683(F) 17=-698(F) 18=-665(F) 19=-668(F) 20=-718(F) 21=-699(F) 22=-686(F) 23=-679(F) 24=-679(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-26, 2-4=-32, 4-6=-10, 6-7=-5, 11-14=-20

Horz: 1-2=6, 2-4=12, 4-6=10, 6-7=15

Concentrated Loads (lb)

Vert: 9=-671(F) 17=-687(F) 18=-654(F) 19=-657(F) 20=-706(F) 21=-688(F) 22=-674(F) 23=-668(F) 24=-668(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=-5, 2-4=-10, 4-6=-32, 6-7=-26, 11-14=-20

Horz: 1-2=-15, 2-4=-10, 4-6=-12, 6-7=-6

Concentrated Loads (lb)

Vert: 9=-671(F) 17=-687(F) 18=-654(F) 19=-657(F) 20=-706(F) 21=-688(F) 22=-674(F) 23=-668(F) 24=-668(F)

34) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=30, 2-4=16, 4-6=16, 6-7=30, 11-14=-8

Horz: 1-2=-42, 2-4=-28, 4-6=28, 6-7=42

Concentrated Loads (lb)

Vert: 9=-683(F) 17=-698(F) 18=-665(F) 19=-668(F) 20=-718(F) 21=-699(F) 22=-686(F) 23=-679(F) 24=-679(F)

35) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=15, 2-4=1, 4-6=1, 6-7=15, 11-14=-8

Horz: 1-2=-27, 2-4=-13, 4-6=13, 6-7=27

Concentrated Loads (lb)

Vert: 9=-683(F) 17=-698(F) 18=-665(F) 19=-668(F) 20=-718(F) 21=-699(F) 22=-686(F) 23=-679(F) 24=-679(F)

36) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 11-14=-20

Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

Concentrated Loads (lb)

Vert: 9=-671(F) 17=-687(F) 18=-654(F) 19=-657(F) 20=-706(F) 21=-688(F) 22=-674(F) 23=-668(F) 24=-668(F)

37) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 11-14=-20

Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

Concentrated Loads (lb)

Vert: 9=-671(F) 17=-687(F) 18=-654(F) 19=-657(F) 20=-706(F) 21=-688(F) 22=-674(F) 23=-668(F) 24=-668(F)

38) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-48, 2-4=-52, 4-6=-36, 6-7=-32, 11-14=-20

Horz: 1-2=5, 2-4=9, 4-6=7, 6-7=11

Concentrated Loads (lb)

Vert: 9=-1067(F) 17=-1029(F) 18=-958(F) 19=-996(F) 20=-1150(F) 21=-1084(F) 22=-1016(F) 23=-1011(F) 24=-1011(F)

39) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-32, 2-4=-36, 4-6=-52, 6-7=-48, 11-14=-20

Horz: 1-2=-11, 2-4=-7, 4-6=-9, 6-7=-5

Concentrated Loads (lb)

Vert: 9=-1067(F) 17=-1029(F) 18=-958(F) 19=-996(F) 20=-1150(F) 21=-1084(F) 22=-1016(F) 23=-1011(F) 24=-1011(F)

40) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 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 chorembers 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	Summit/67 Woodside	
2684908	GR2	Common Girder	1	_	I	143520215
2004300	GIVZ	Common Girder	'	2	Job Reference (optional)	

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 6 09:47:22 2020 Page 5 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-JjC0kHT5yEd2tWDd7dPUHfuxD?TbkaSK4CKA78yLxZp

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-40, 2-4=-44, 4-6=-44, 6-7=-40, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=-1067(F) 17=-1029(F) 18=-958(F) 19=-996(F) 20=-1150(F) 21=-1084(F) 22=-1016(F) 23=-1011(F) 24=-1011(F)

41) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-4=-44, 4-6=-44, 6-7=-40, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=-1067(F) 17=-1029(F) 18=-958(F) 19=-996(F) 20=-1150(F) 21=-1084(F) 22=-1016(F) 23=-1011(F) 24=-1011(F)

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-62, 2-4=-66, 4-6=-50, 6-7=-46, 11-14=-20

Horz: 1-2=5 2-4=9 4-6=7 6-7=11

Concentrated Loads (lb)

Vert: 9=-1112(F) 17=-1130(F) 18=-1097(F) 19=-1099(F) 20=-1144(F) 21=-1128(F) 22=-1118(F) 23=-1111(F) 24=-1111(F)

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-46, 2-4=-50, 4-6=-66, 6-7=-62, 11-14=-20

Horz: 1-2=-11, 2-4=-7, 4-6=-9, 6-7=-5

Concentrated Loads (lb)

Vert: 9=-1112(F) 17=-1130(F) 18=-1097(F) 19=-1099(F) 20=-1144(F) 21=-1128(F) 22=-1118(F) 23=-1111(F) 24=-1111(F)

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-58, 4-6=-58, 6-7=-54, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=-1112(F) 17=-1130(F) 18=-1097(F) 19=-1099(F) 20=-1144(F) 21=-1128(F) 22=-1118(F) 23=-1111(F) 24=-1111(F)

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-58, 4-6=-58, 6-7=-54, 11-14=-20

Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

Concentrated Loads (lb)

Vert: 9=-1112(F) 17=-1130(F) 18=-1097(F) 19=-1099(F) 20=-1144(F) 21=-1128(F) 22=-1118(F) 23=-1111(F) 24=-1111(F)

46) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-4=-17, 4-7=-12, 11-14=-8

Horz: 2-4=5

Concentrated Loads (lb)

Vert: 9=-598(F) 17=-613(F) 18=-581(F) 19=-583(F) 20=-633(F) 21=-614(F) 22=-601(F) 23=-594(F) 24=-594(F)

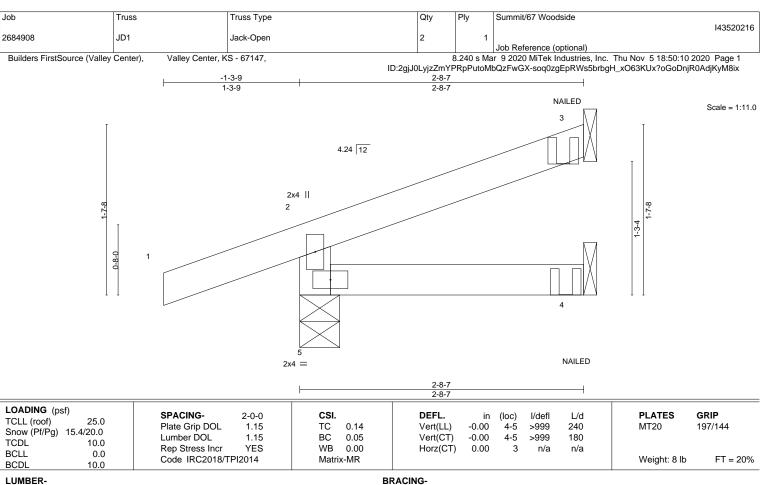
47) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-12, 4-6=-17, 6-7=-12, 11-14=-8

Horz: 4-6=-5 Concentrated Loads (lb)

Vert: 9=-598(F) 17=-613(F) 18=-581(F) 19=-583(F) 20=-633(F) 21=-614(F) 22=-601(F) 23=-594(F) 24=-594(F)



2x4 SPF No.2

TOP CHORD **BOT CHORD** 2x4 SPF No.2 WFBS 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=56(LC 16)

Max Uplift 5=-55(LC 16), 3=-20(LC 13)

Max Grav 5=250(LC 21), 3=66(LC 21), 4=47(LC 7)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 5 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) 5, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 3=-8(F) 4=-1(F)



November 6,2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

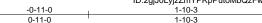


Job Summit/67 Woodside Truss Truss Type Ply Qty 143520217 2684908 JD2 Jack-Open Job Reference (optional)

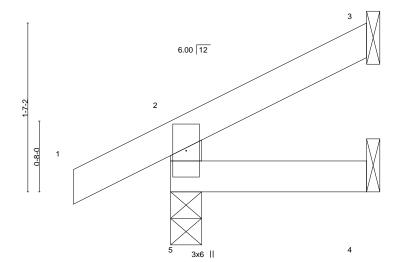
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:11 2020 Page 1 $ID: 2gjJOLyjzZmYPRpPutoMbQzFwGX-K_OOA0FRCq_yC?9sqhTdfHsggO8qXg1tggwAFmyM8iw$



Scale = 1:10.9



1-10-3 1-10-3

TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.02 WB 0.00	DEFL. in (loc) Vert(LL) -0.00 5 Vert(CT) -0.00 5 Horz(CT) -0.00 3	l/defl L/d 5 >999 240 5 >999 180 6 n/a n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR			Weight: 6 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 **BOT CHORD** WFBS 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=56(LC 16)

Max Uplift 5=-33(LC 16), 3=-14(LC 16)

Max Grav 5=179(LC 21), 3=42(LC 21), 4=30(LC 7)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) 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) 5, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020

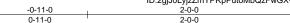


Job Summit/67 Woodside Truss Truss Type Ply Qty 143520218 2684908 JD3 Jack-Open Job Reference (optional)

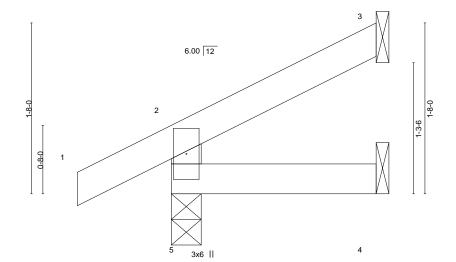
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:12 2020 Page 1 $ID:2gjJ0LyjzZmYPRpPutoMbQzFwGX-oAymOMG3z86pq9k2OO_sBUPrPoU_G7H0uKfknCyM8iv\\$



Scale = 1:11.2



			2-0-0	
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 4-5 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 **BOT CHORD** WFBS 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=58(LC 16)

Max Uplift 5=-33(LC 16), 3=-16(LC 16)

Max Grav 5=185(LC 21), 3=49(LC 21), 4=33(LC 7)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) 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) 5, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



Job Ply Summit/67 Woodside Truss Truss Type Qty 143520219 GABLE 2684908 LG1 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

3x4 =

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:13 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-GNW8bhGhkREgSJJFy6V5kiyvKCnd?YO97_PHKfyM8iu

Scale = 1:57.0

14-8-7

14-8-7

⁵ 18 🖂 ⊠_¹⁹ ⁷ 16×3 17 3x4 = Ø 10 10.82 12 12 \[\times \tin \times \times \times \times \times \times \times \times \times 15 6x6 // 3x4 =

		4-1-9			10-6-14			1			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.45 0.20 0.14	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 8	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCEL 0.0	Code IRC2018/TI	PI2014	Matr	ix-S						Weight: 89 lb	FT = 20%

LUMBER-

BCDL

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

10.0

WFBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

14-8-7

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-8, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS 1 Row at midnt 1-15, 2-14, 3-13

REACTIONS. All bearings 14-8-7.

Max Horz 15=-233(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 15, 14, 13, 12, 11, 10, 9 except 8=-101(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 15, 8, 14, 13, 12, 11, 10, 9

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=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 11-3-14, Corner(3) 11-3-14 to 14-3-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4-1-9

- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 14, 13, 12, 11, 10 9 except (it=lb) 8=101
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 12, 11, 10, 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020



Job Qty Summit/67 Woodside Truss Truss Type Ply 143520220 GABLE 2684908 LG2 Job Reference (optional)

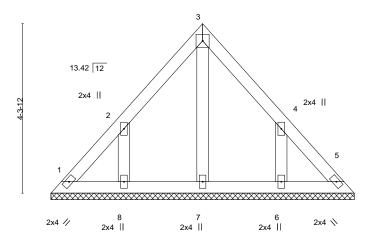
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:14 2020 Page 1 ID: 2gjJ0LyjzZmYPRpPutoMbQzFwGX-kZ4Wp1HJVINX3TuRWp0KGvUBGcAXk1NJMe8rs5yM8 it also below the property of the

3-10-4 7-8-9 3-10-4 3-10-4

> Scale = 1:29.3 4x4 =



LOADING (psf) SPACING-CSI. 2-0-0 TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.06 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.02 TCDL 10.0 Rep Stress Incr YES WB 0.03 **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P BCDL 10.0

DEFL. I/d in (loc) I/defl Vert(LL) n/a n/a 999 Vert(CT) n/a n/a 999 Horz(CT) 0.00 5 n/a n/a

PLATES GRIP 197/144 MT20

Weight: 29 lb FT = 20%

LUMBER-

OTHERS

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **BRACING-**

7-8-9 7-8-9

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 7-8-9.

(lb) - Max Horz 1=-101(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-4, Exterior(2R) 3-10-4 to 6-10-4, Interior(1) 6-10-4 to 7-4-10 zone, cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qty 143520221 GABLE 2684908 LG3 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:15 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-Clev0NIxG3VOhdTd3XXZp71Jd0VWTT_SaHuOOXyM8is

Scale = 1:29.7

20%

8-6-15 8-6-15 12 **X**3

10.82 12

2-8-1 5-10-14

LOADING (ps	,	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) Snow (Pf/Pg)	25.0 20.4/20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 38 lb	FT = 2

LUMBER-

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

WFBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD 2-0-0 oc purlins: 1-5, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 8-6-15.

Max Horz 10=-127(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 8, 9, 7, 6 Max Grav All reactions 250 lb or less at joint(s) 10, 5, 8, 9, 7, 6

10

9

⁸ 3x6 //

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=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 5-2-6, Corner(3) 5-2-6 to 8-2-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5, 8, 9, 7, 6.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/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 Summit/67 Woodside Truss Truss Type Ply Qty 143520222 GABLE 2684908 LG4 Job Reference (optional)

> 8-6-15 8-6-15

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:16 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-hxBHDjJa1MdFJm2qdE2oMKaSSPrmCw0cpxdxx_yM8ir

12 Σħ 10.82 12

9 3x6 /

10

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.33 BC 0.04
TCDL 10.0 BCLL 0.0	Rep Stress Incr YES	WB 0.08
PCDI 10.0	Code IRC2018/TPI2014	Matrix-P

DEFL. I/d in (loc) I/defl Vert(LL) n/a n/a 999 Vert(CT) n/a n/a 999 Horz(CT) 0.00 5 n/a n/a **PLATES** MT20

GRIP 197/144

Scale = 1:35.2

Weight: 41 lb FT = 20%

LUMBER-

WFBS

OTHERS

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

2x4 SPF No.2 2x4 SPF No.2 **BRACING-**

7-2-14

TOP CHORD 2-0-0 oc purlins: 1-5, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 8-6-15.

Max Horz 10=-157(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 9, 8, 7, 6 Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 5-2-6, Corner(3) 5-2-6 to 8-2-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5, 9, 8, 7, 6.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 6,2020



Job Truss Type Ply Summit/67 Woodside Truss Qtv 143520223 GABLE 2684908 М1 Job Reference (optional)

Builders FirstSource (Valley Center), -0-11-0

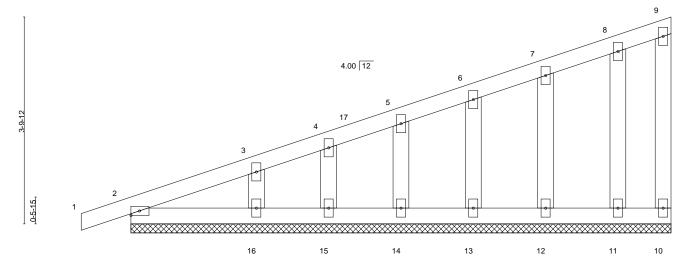
0-11-0

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:17 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-98lfR3KCogl6wwd0ByZ1uY6hlpB_xO5l2bNVTQyM8iq 9-11-8

9-11-8

Scale = 1:21.2



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.04 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 1 1 1	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 41 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WFBS 2x4 SPF No.2

2x4 SPF No.2 **OTHERS**

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS. All bearings 9-11-8.

Max Horz 2=120(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 2, 14, 15, 16, 13, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 10, 2, 14, 15, 16, 13, 12, 11

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

TOP CHORD 2-3=-274/129

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-3-12, Exterior(2N) 2-3-12 to 9-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2, 14, 15, 16,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qty 143520224 10 2684908 M2 Monopitch Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:18 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-dKJ1ePKqZ_tzY4CClf5GRlfnVDOUgn4vHF62?syM8ip -0-11-0 4-11-14 9-11-8 0-11-0 4-11-14 4-11-10 Scale = 1:23.7 3x4 II

3.9-12	1 2	4.00 122 2x4 ≈ 9	5
	4x6 =		

9-11-8 9-11-8 [2:0-0-0 0-1-2]

BRACING-

TOP CHORD

BOT CHORD

1 tate 3 to 5 to 7										
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.42 BC 0.60 WB 0.30	DEFL. in (loc) l/defl L/d Vert(LL) -0.21 5-8 >572 240 Vert(CT) -0.41 5-8 >285 180 Horz(CT) 0.01 2 n/a n/a	PLATES GRIP MT20 197/144						
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	11012(C1) 0.01 2 11/4 11/4	Weight: 34 lb FT = 20%						

LUMBER-

REACTIONS.

Plate Offsets (X V)--

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

(size) 2=0-3-8, 5=Mechanical

Max Horz 2=121(LC 15)

Max Uplift 2=-62(LC 16), 5=-38(LC 16) Max Grav 2=509(LC 2), 5=441(LC 21)

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

TOP CHORD 2-3=-694/266 **BOT CHORD** 2-5=-355/636 WEBS 3-5=-621/336

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 9-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- 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) 2, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

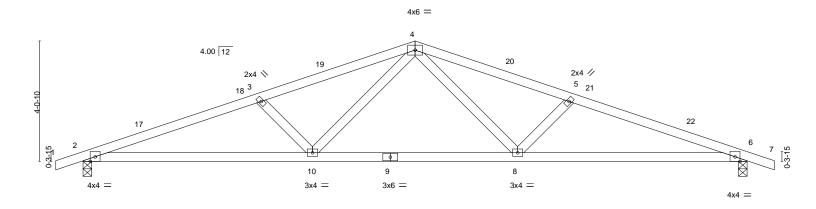
Rigid ceiling directly applied.

November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qty 143520225 2684908 МЗ Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:19 2020 Page 1 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-5WtPslLSJH?qAEnOIMcVzzCyhdi2PGS2VvsbXIyM8 iouthall and the control of the con$ 0-11-0 5-11-14 11-2-0 16-4-2 22-4-0 5-11-14 5-2-2 5-2-2 5-11-14 0-11-0

Scale = 1:38.7



<u> </u>	7-8-9 7-8-9	14-7-7 6-10-13				22-4- 7-8-9	·	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.40 BC 0.71 WB 0.16 Matrix-AS	(/	in (loc) 13 10-13 26 10-13 07 6	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 **BOT CHORD**

WFBS 2x4 SPF No.2

> (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-49(LC 14)

Max Uplift 2=-109(LC 16), 6=-109(LC 16)

Max Grav 2=1069(LC 2), 6=1069(LC 2)

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

2-3=-2400/463, 3-4=-2118/415, 4-5=-2118/415, 5-6=-2400/463 TOP CHORD

BOT CHORD 2-10=-383/2248, 8-10=-214/1508, 6-8=-385/2248

WEBS 4-8=-87/672, 5-8=-456/165, 4-10=-87/672, 3-10=-456/165

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0, Interior(1) 14-2-0 to 23-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109, 6=109,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

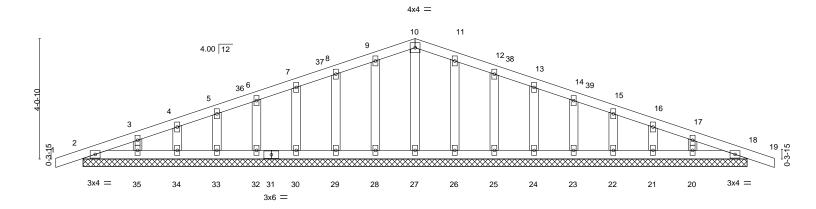


November 6,2020



Job Summit/67 Woodside Truss Truss Type Qtv Ply 143520226 GABLE 2684908 M4 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:21 2020 Page 1 $ID: 4rXHhD3_rtBCgQSIY2gdJuzGwv6-1v?AHQNirvFYPYwnQnez3OHOWQZFtCALzDLicByM8 im \\$ 0-11-0 11-2-0 22-4-0 23-3-0 0-11-0 11-2-0 11-2-0 0-11-0

Scale = 1:38.7



		22-4-0)					
		22-4-0)					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.02 WB 0.02	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 19 -0.00 19 0.00 18	n/r	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 86 lb	FT = 20%

LUMBER-**BRACING-**

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-4-0.

(lb) - Max Horz 2=-49(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21,

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 1-10-0, Exterior(2N) 1-10-0 to 11-2-0, Corner(3R) 11-2-0 to 14-2-0, Exterior(2N) 14-2-0 to 23-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/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 Qty Summit/67 Woodside Truss Truss Type Ply 143520227 P1 2684908 Monopitch Supported Gable Job Reference (optional)

Builders FirstSource (Valley Center),

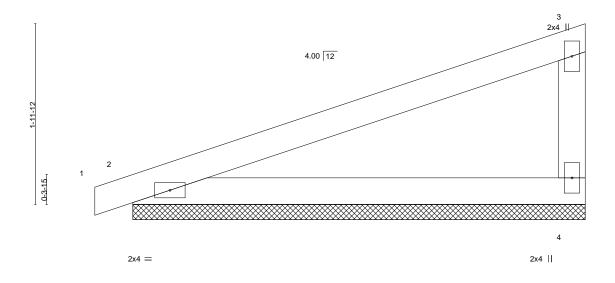
Valley Center, KS - 67147,

-0-5-0 0-5-0

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:22 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-V5ZYUmNKcCNO1hVz_V9CbbqSuqr0cfmUBt4G8dyM8il

4-11-8

Scale = 1:12.6



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.46 BC 0.24 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo 0.00 0.01 0.00	oc) l/defl 1 n/i 1 n/i 4 n/a	120 120	PLATES MT20	GRIP 197/144
BCDI 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 14 lb	FT = 20%

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **BRACING-**TOP CHORD

Structural wood sheathing directly applied or 4-11-8 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS.

(size) 4=4-11-8, 2=4-11-8

Max Horz 2=58(LC 15)

Max Uplift 4=-18(LC 16), 2=-29(LC 16) Max Grav 4=226(LC 21), 2=260(LC 21)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-5-0 to 2-7-0, Exterior(2N) 2-7-0 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qty 143520228 P2 2684908 Monopitch 6 Job Reference (optional)

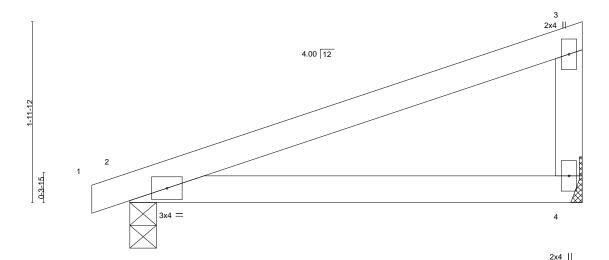
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:23 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-zI6wh6OzNWVFer4AXCgR8pMgxEAnL6?eQXqpg4yM8ik

-0-5-0 0-5-0 4-11-8

Scale = 1:12.6



4-11-8				
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.32 BC 0.27 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 4-7 >999 240 Vert(CT) -0.06 4-7 >897 180 Horz(CT) 0.00 2 n/a n/a	PLATES GRIP MT20 197/144
BCDI 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 14 lb FT = 20%

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8

Max Horz 2=58(LC 15)

Max Uplift 4=-18(LC 16), 2=-29(LC 16) Max Grav 4=226(LC 21), 2=260(LC 21)

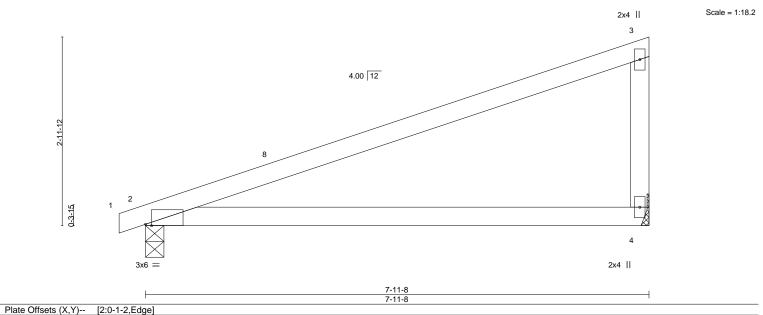
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-5-0 to 2-7-0, Interior(1) 2-7-0 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) 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) 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 6,2020



Job Summit/67 Woodside Truss Truss Type Ply Qty 143520229 2684908 Р3 Monopitch Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 18:50:24 2020 Page 1 ID:4rXHhD3_rtBCgQSIY2gdJuzGwv6-SUgIvSPb8qd6G?fM5wBgg0viBeRG4ZFnfBZMDWyM8ij 0-5-0 7-11-8



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.86 BC 0.64	DEFL. in (loc) l/defl L/d Vert(LL) -0.19 4-7 >498 240 Vert(CT) -0.39 4-7 >241 180	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-AS	Horz(CT) 0.01 2 n/a n/a	Weight: 22 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No.2

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

(size) 4=Mechanical, 2=0-3-8

Max Horz 2=92(LC 15)

Max Uplift 4=-30(LC 16), 2=-39(LC 16) Max Grav 4=361(LC 21), 2=382(LC 2)

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

TOP CHORD 3-4=-259/196

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-5-0 to 2-7-0, Interior(1) 2-7-0 to 7-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 12.0 psf or 1.00 times flat roof load of 15.4 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) 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) 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

November 6,2020





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

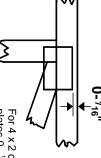


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



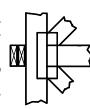
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



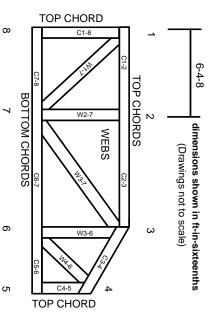
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.