

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

Re: 2524433

Summit/61 Woodside

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I43624412 thru I43624508

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

Missouri COA: Engineering 001193



November 16,2020

Sevier, Scott

,Engineer

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

Job Truss Truss Type Qty Ply Summit/61 Woodside 143624412 2524433 A1 HIP GIRDER Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:05 2020 Page 1

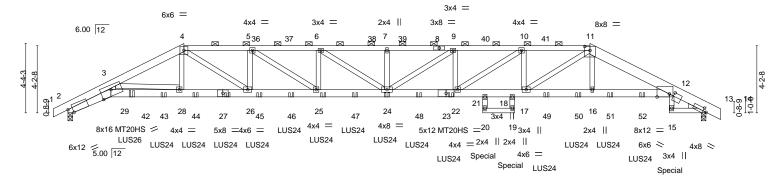
Structural wood sheathing directly applied or 4-9-13 oc purlins,

2-0-0 oc purlins (3-9-8 max.): 4-11.

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

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-abYsw35ZBR6CMrL9ohylxskdoEdgIm73wdzQEtyJb2K 35-1-0 37-8-8 2-4-4 2-7-8 26-0-0 28-7-0 1-8-8 2-0-0 0-7-0 24-3-8 4-3-8

Scale = 1:72.2



2-8-5	7-3-4 11-5-0	15-8-8	20-0-0	24-3-8 26		8-0-0 28-7-C			35-1-0	37-8-8 40-0-0	1
2-8-5	4-6-15 4-1-12	4-3-8	4-3-8	4-3-8 ¹ 1-	8-8 I	2-0-0 0 <u>!</u> 7-0	4-1-12	- 1	2-4-4	2-7-8 2-3-8	<u> </u>
Plate Offsets (X,Y) [2:0-3-7,	Edge], [11:0-4-0,0-3-0], [12:	:0-9-5,Edge], [12:0-3-8,0-2-12], [13:0-	2-6,0-2-5], [29:0-8	-0,0-4	·12]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 1.15 1.15 NO 2014	CSI. TC 0.90 BC 0.88 WB 0.38 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	i -0.76 -1.26 0.52	5 24 5 24	l/defl >632 >380 n/a	L/d 240 180 n/a		PLATES MT20 MT20HS Weight: 623 lb	GRIP 197/144 148/108 FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 *Except*

1-4: 2x6 SPF No.2, 11-14: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-29,27-29,12-23,23-27: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 *Except*

3-29: 2x4 SPF 1650F 1.5E

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 13=0-3-8

Max Horz 2=87(LC 57)

Max Uplift 2=-628(LC 12), 13=-683(LC 12) Max Grav 2=4706(LC 34), 13=4894(LC 34)

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

TOP CHORD 2-3=-18176/2297, 3-4=-12398/1524, 4-5=-15008/1810, 5-6=-17695/2113,

6-7=-18410/2192, 7-9=-18410/2192, 9-10=-17691/2106, 10-11=-14940/1789,

11-12=-12152/1464, 12-13=-2475/368

BOT CHORD 2-29=-2018/16384, 28-29=-1854/15006, 26-28=-1271/11153, 25-26=-1689/15008, 24-25=-1992/17695, 22-24=-1984/17691, 21-22=-1667/14940, 18-21=-1644/14728,

17-18=-1667/14940, 16-17=-1273/11294, 12-16=-1278/11360, 12-15=-54/482

3-29=-515/4231, 3-28=-3941/576, 4-28=-271/2204, 4-26=-506/4670, 5-26=-2094/260,

5-25=-363/3220, 6-25=-870/123, 6-24=-94/856, 7-24=-278/78, 11-16=-168/1566,

11-17=-478/4417, 10-17=-2115/267, 10-22=-380/3297, 9-22=-877/128, 9-24=-103/861

NOTES-

WEBS

1) 3-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, 2x4 - 1 row at 0-7-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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=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.
- 6) Unbalanced snow loads have been considered for this design.

Continued on page 2



WITS SIONAL

OF MISS

SCOTT M

SEVIER

NUMBER

PE-2001018807

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside	
2524433	Δ1	HIP GIRDER	1	_		143624412
2524455		I SINDEN		3	Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:05 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-abYsw35ZBR6CMrL9ohylxskdoEdgIm73wdzQEtyJb2K

- 7) 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.
- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=628, 13=683.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 4-0-0 from the left end to connect truss(es) to front face of bottom chord.
- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 6-0-0 from the left end to 36-0-0 to connect truss(es) to front face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 334 lb down and 58 lb up at 26-1-12, and 339 lb down and 56 lb up at 27-10-4, and 404 lb down and 142 lb up at 37-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-4=-51, 4-11=-61, 11-12=-51, 12-14=-51, 29-30=-20, 21-29=-20, 12-18=-20, 19-20=-20, 15-33=-20

Concentrated Loads (lb)

Vert: 27=-338(F) 21=-334(F) 18=-339(F) 23=-334(F) 12=-404(F) 25=-334(F) 24=-334(F) 42=-510(F) 43=-285(F) 44=-338(F) 45=-338(F) 46=-334(F) 47=-334(F) 47=-3 48=-334(F) 49=-339(F) 50=-339(F) 51=-300(F) 52=-298(F)

 Job
 Truss
 Truss Type
 Qty
 Ply
 Summit/61 Woodside

 2524433
 A2
 Hip
 1
 1
 1
 Job Reference (optional)

 Builders FirstSource (Valley Center),
 Valley Center, KS - 67147,
 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:11 2020 Page 1

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Okv7A69KmHtL4moJ9y29A7_h?fhyiTYxJZQkRXyJb2E

Structural wood sheathing directly applied, except

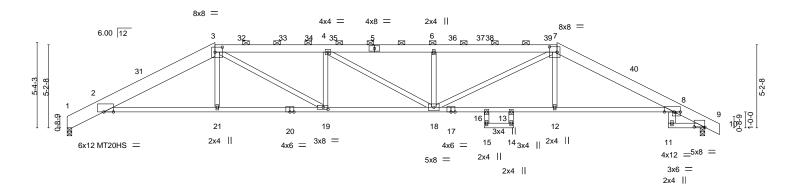
2-0-0 oc purlins (2-10-15 max.): 3-7.

10-0-0 oc bracing: 2-21

Rigid ceiling directly applied. Except:

10.VFVQVFIIPUFUB 12LZIICQEZGROX-OKV/A6SNIIALL4II0039/2947_11/ility117x3/ZQRRAX/3 2-4-12 9-3-4 16-2-8 23-0-0 26-2-0 30-8-12 37-8-8 40-0-0 40-11-0 2-4-12 6-10-8 6-11-4 6-9-8 3-2-0 1-10-0 2-8-12 6-11-12 2-3-8 0/11-0

Scale = 1:72.3



2-4-12	9-3-4	16-2-8	23-0-0	1 26-2-0	₁ 28-0-0 ₁ 30	-8-12 _I	37-8-8	40-0-0	
2-4-12	6-10-8	6-11-4	6-9-8	3-2-0	1-10-0 2-	·8-12	6-11-12	2-3-8	
Plate Offsets (X,Y) [2:0-7-4,E	Edge], [3:0-5-8,0-3-12],	, [7:0-5-12,0-4-0], [8:	:0-7-6,0-0-1], [8:0-3-8,0-0)-8], [9:0-8-0,0-0-	5], [19:0-3-8,0-	-1-8]			
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	1.15 YES	CSI. TC 0.72 BC 0.83 WB 0.39	- '()	in (loc) -0.46 18-19 -0.84 18-19 0.47 9	l/defl >999 >568 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL 10.0	Code IRC2018/	/TPI2014	Matrix-AS					Weight: 207 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x6

RD 2x6 SPF No.2 *Except*

1-3: 2x10 SP 2400F 2.0E, 7-10: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-20,8-17,17-20: 2x4 SPF 1650F 1.5E, 8-11: 2x6 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 1=-95(LC 14)

Max Uplift 1=-138(LC 16), 9=-170(LC 16) Max Grav 1=1810(LC 2), 9=1866(LC 2)

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

TOP CHORD 1-2=-801/122, 2-3=-3722/420, 3-4=-4799/538, 4-6=-4898/539, 6-7=-4898/539,

7-8=-3811/422, 8-9=-765/131

BOT CHORD 2-21=-270/3413, 19-21=-268/3419, 18-19=-383/4799, 16-18=-278/3495, 13-16=-294/3436,

12-13=-278/3495, 8-12=-280/3487

WEBS 3-21=0/291, 7-12=0/333, 3-19=-131/1576, 4-19=-633/120, 6-18=-622/127,

7-18=-128/1574

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 9-3-4, Exterior(2R) 9-3-4 to 13-6-3, Interior(1) 13-6-3 to 30-8-12, Exterior(2R) 30-8-12 to 34-11-11, Interior(1) 34-11-11 to 40-11-0 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) 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) 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) 1=138, 9=170.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuier Dress and ANSI/TPI 1.



November 16,2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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/61 Woodside	
						143624413
2524433	A2	Hip	1	1		
					Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:11 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Okv7A69KmHtL4moJ9y29A7_h?fhyiTYxJZQkRXyJb2E

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.

Job Truss Truss Type Summit/61 Woodside 143624414 2524433 A3 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:14 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-pJbFp8CC3CFwyDXuq4csolcCWsgpvjpN?XeO2syJb2B

Scale = 1:72.0

40-0-0 40-11-0 2-3-8 0-11-0

33-2-10 4-5-14

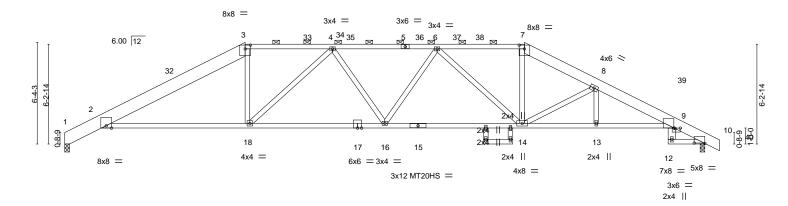
28-8-12

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied

37-8-8 4-5-14



$\frac{ \frac{2\cdot 4\cdot 12}{2\cdot 4\cdot 12} }{ \text{Plate Offsets (X,Y)} }$	11-3-4 8-10-8 -13], [7:0-4-0,0-2-13], [9:0-0-2,Edg	20-0-0 8-8-12 e], [9:0-3-8,0-0-8], [10:0-8-0	23-3-3 26-2- 3-3-3 2-10-1 0,0-0-5]		33-2-10 4-5-14	37-8-8 40-0-0 4-5-14 2-3-8	1
COADING (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 0.77 BC 0.95 WB 0.86 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.38 14-16	l/defl L/d >999 240 >628 180 n/a n/a	PLATES MT20 MT20HS Weight: 209 lb	GRIP 197/144 148/108 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

1-3: 2x10 SP 2400F 2.0E, 7-11: 2x8 SP 2400F 2.0E

11-3-4 4-5-4

BOT CHORD 2x4 SPF No.2 *Except*

2-17,9-15: 2x4 SPF 1650F 1.5E, 9-12: 2x6 SPF No.2 2x4 SPF No.2

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

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=-116(LC 14)

Max Uplift 1=-138(LC 16), 10=-170(LC 16)

Max Grav 1=1810(LC 2), 10=1866(LC 2)

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

TOP CHORD 1-2=-801/123, 2-3=-3330/373, 3-4=-3003/392, 4-6=-3603/445, 6-7=-2990/396,

7-8=-3417/414, 8-9=-4263/485, 9-10=-765/131

BOT CHORD 2-18=-204/2982, 16-18=-282/3545, 14-16=-281/3552, 13-14=-370/3977, 9-13=-370/3977 WFBS

3-18=-5/816, 7-14=-100/1243, 4-18=-914/107, 6-14=-931/109, 8-14=-1245/190

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 11-3-4, Exterior(2R) 11-3-4 to 15-6-3, Interior(1) 15-6-3 to 28-8-12, Exterior(2R) 28-8-12 to 33-2-10, Interior(1) 33-2-10 to 40-11-0 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) 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) 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) 1=138, 10=170.
- 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

OF MISS

SCOTT M.

SEVIER

PE-2001018807

November 16,2020

👠 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's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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/61 Woodside	
2524433	A3	Llin	1	1		143624414
2024400	AS	нір 		!	Job Reference (optional)	

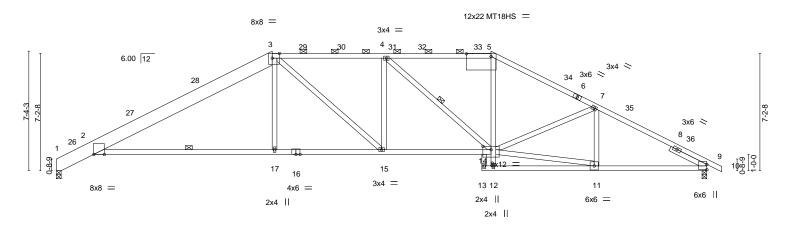
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:14 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-pJbFp8CC3CFwyDXuq4csolcCWsgpvjpN?XeO2syJb2B

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.

Scale = 1:70.8



	13-3-4	6-10-8	6-0-4	0-6-1 ¹ 2	6-5-14	6-9-6	1
Plate Offsets (X,Y)	[2:0-7-12,Edge], [3:0-5-4,Edge], [5:1-6-	4,0-2-0], [18:0-1-12,0-0-0], [18	:0-6-0,0-2-8]				
Snow (Pf/Pg) 20.4/20 TCDL 1 BCLL	0.0	15 TC 0.89 15 BC 0.98 S WB 0.65	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc -0.36 17-2 -0.83 17-2 0.33	1 >999 240	PLATES MT20 MT18HS Weight: 199 lb	GRIP 197/144 197/144 FT = 20%

BRACING-

LUMBER-

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

Here the second results and the second results are second results and the second results and the second results are second results and the second results and the second results are second results are second results and the second results are second results a

2-16: 2x4 SPF 1650F 1.5E 10-0-0 oc bracing: 2-17
/EBS 2x4 SPF No.2 WEBS 1 Row at midpt

 WEBS
 2x4 SPF No.2
 WEBS
 1 Row at midpt
 4-14

 SLIDER
 Right 2x4 SPF No.2 2-6-0
 WEBS
 1 Row at midpt
 4-14

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

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

TOP CHORD 1-2=-802/117, 2-3=-3102/362, 3-4=-3085/423, 4-5=-2710/390, 5-7=-3097/393,

7-9=-3102/362

BOT CHORD 2-17=-176/2759, 15-17=-174/2764, 14-15=-213/3085, 9-11=-246/2692

WEBS 3-17=0/372, 3-15=-51/611, 4-15=-274/93, 4-14=-683/54, 7-11=-315/100, 5-14=-48/876,

11-14=-246/2646, 7-14=-227/253

Max Uplift 1=-136(LC 16), 9=-170(LC 16) Max Grav 1=1814(LC 2), 9=1867(LC 2)

Max Horz 1=-133(LC 14)

NOTES-

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 13-3-4, Exterior(2R) 13-3-4 to 17-6-3, Interior(1) 17-6-3 to 26-8-12, Exterior(2R) 26-8-12 to 30-11-11, Interior(1) 30-11-11 to 40-11-0 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) 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) 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) 1=136, 9=170.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuing Continuing Residential Code sections R502.11.1 and R802.10.2 and Continuing R602.10.2 and Continuing R602.10.2 and Code sections R502.11.1 and R802.10.2 and Code sections R502.11.1 and R502.1



November 16,2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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/61 Woodside	
						I43624415
2524433	A4	Hip	1	1		
					Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:16 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-lij0EqDSbpVeBXhHxVeKtAhV5gLmNgggSr7V7kyJb29

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.

Job Truss Truss Type Qty Summit/61 Woodside 143624416 HIP 2524433 A5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:18 2020 Page 1

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-h5qmeVFj7QlMQqrf3whozbmu?T12rgZzw9ccBdyJb27

Structural wood sheathing directly applied, except

3-14, 5-14, 5-11, 7-11

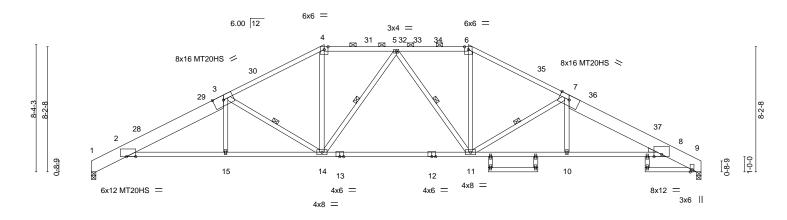
2-0-0 oc purlins (3-6-14 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt

24-8-12 4-8-12 31-2-6 1-6-14 20-0-0 4-8-12 15-3-4 6-5-10 3-8-0

Scale = 1:75.6



					26-0-8	31-2-6			
2-4-12	8-9-10	15-3-4	20-0-0	24-8-12	25-8-8	29-3-8 29 ₁ 7 ₁ 8 ₁	36-4-0	40-0-0	
2-4-12	6-4-14	6-5-10	4-8-12	4-8-12	0-11-12	3-3-0 0-4-0	5-1-10	3-8-0	
					0-4-0	1-6-14			

LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.67 Vert(LL) -0.29 11-14 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.99 Vert(CT) -0.71 11-14 >673 180 MT20HS 148/108	Plate Offsets (X,Y) [2:0-7-4,E	agej			
BCLL 0.0 Rep Stress incr YES WB 0.30 Horz(C1) 0.38 9 n/a n/a	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 0.67 BC 0.99 WB 0.30	Vert(LL) -0.29 11-14 >999 240	MT20 197/144 MT20HS 148/108

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-3,7-9: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

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

Max Horz 1=-148(LC 14)

Max Uplift 1=-138(LC 16), 9=-143(LC 16) Max Grav 1=1804(LC 2), 9=1793(LC 2)

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

TOP CHORD 1-2=-798/113, 2-3=-3622/430, 3-4=-2846/385, 4-5=-2437/378, 5-6=-2437/378,

6-7=-2845/386, 7-8=-3618/431, 8-9=-793/111

BOT CHORD 2-15=-310/3308, 14-15=-308/3313, 11-14=-177/2567, 10-11=-305/3307, 8-10=-307/3302

3-14=-1133/184, 4-14=-61/854, 5-14=-419/61, 5-11=-421/61, 6-11=-61/854, WEBS

7-11=-1128/185

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 15-3-4, Exterior(2R) 15-3-4 to 19-6-3, Interior(1) 19-6-3 to 24-8-12, Exterior(2R) 24-8-12 to 28-11-11, Interior(1) 28-11-11 to 39-10-4 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) Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 1, 9 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) 1=138, 9=143,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere naestasia 12 dard ANSI/TPI 1.



November 16,2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to Use Only with New Controlled S. This costign is based only upon parameters shown, and is for an individual druining Component, not a fundamental property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside	
						143624416
2524433	A5	HIP	1	1		
					Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:18 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-h5qmeVFj7QlMQqrf3whozbmu?T12rgZzw9ccBdyJb27

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.

7-6-14

22-8-12

5-5-8

29-7-8

6-10-12

Scale = 1:75.4

40-0-0

3-8-0

36-4-0

6-0-6

30₇3-10

Structural wood sheathing directly applied, except

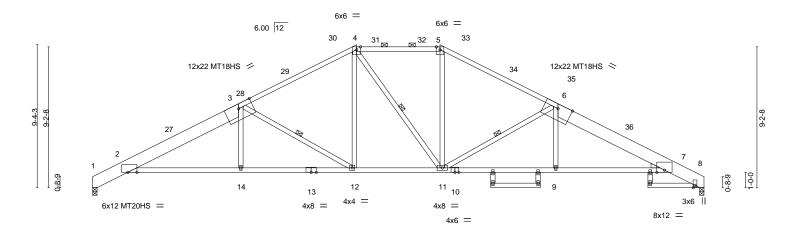
3-12, 4-11, 6-11

2-0-0 oc purlins (3-6-15 max.): 4-5.

Rigid ceiling directly applied.

1 Row at midpt

0-8-2



2-4-12	7-3-10 7-	0-14 5-5)-8 Z-II-I	2 3-11-0	0-8-2	0-0-0	3-8-0	
Plate Offsets (X,Y) [2:0-7-4,E	Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.89 BC 0.96 WB 0.44 Matrix-AS	()	in (loc) -0.29 11-12 -0.55 12-14 0.39 8	l/defl >999 >864 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 220 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

2-4-12

1-3,6-8: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

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

WEDGE 2X4 SPF No.2

WEDGE

Right: 2x4 SP No.3

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

Max Horz 1=-167(LC 14)

Max Uplift 8=-143(LC 16), 1=-138(LC 16) Max Grav 8=1793(LC 2), 1=1804(LC 2)

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

9-8-6

7-3-10

TOP CHORD 1-2=-798/113, 2-3=-3677/420, 3-4=-2671/379, 4-5=-2228/379, 5-6=-2671/380,

6-7=-3673/421, 7-8=-793/111

BOT CHORD 2-14=-292/3349, 12-14=-290/3354, 11-12=-119/2228, 9-11=-287/3349, 7-9=-289/3344 WEBS 3-14=0/314, 3-12=-1272/194, 4-12=-39/740, 5-11=-45/739, 6-11=-1265/196, 6-9=0/313

NOTES-

- 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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 17-3-4, Exterior(2R) 17-3-4 to 21-6-3, Interior(1) 21-6-3 to 22-8-12, Exterior(2R) 22-8-12 to 26-11-11, Interior(1) 26-11-11 to 39-10-4 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) 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.
- Bearing at joint(s) 8, 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=143, 1=138.
- 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.





OF MISS

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November 16,2020

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

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside	
2524433	۸6	 HIP	1	1		143624417
2324433	Λ0	i iir	'	'	Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:20 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-dTyX3BGzf2?3g8?2ALjG20rB1Hk3JYvGNT5jGVyJb25

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.

Job Truss Truss Type Qty Summit/61 Woodside 143624418 HIP 2524433 A7 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:22 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-as4HUtlDBfFnvS8Qlmlk7RxdV4O2nUkZrnapKOyJb23

25-9-10 5-0-14

28-8-12 2-11-2

30-8-12

30-8-12

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-10-3 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

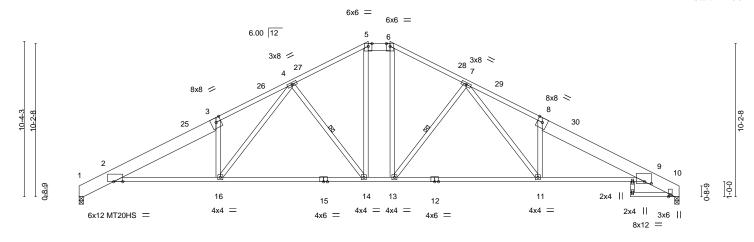
2-0-0

19-3-4 5-0-14

14-2-6 4-11-2

Scale = 1:76.8

3-8-0



	2-4-12	9-3-4	19-3-4	20-8-12 ₁	28-8-12	29 ₁ 2 ₁ 0	36-4-0	36 ₁ 9 ₁ 0	40-0-0	1
	2-4-12	6-10-8	10-0-0	1-5-8	8-0-0	0-5-4	5-7-4	0-5-0	3-3-0	٦
						1-6-12	!			
Plate Offsets (X Y)	[2:0-7-4	Edge] [9:0-5-5 0-1-8]								

1 late 0113013 (X, 1) [2.0 7 4,1	late Offsets (A, r) [2.0 7 4, Edge], [0.0 0 0,0 1 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 0.51 BC 0.99 WB 0.29 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.32 14 >999 240 Vert(CT) -0.70 14-16 >677 180 Horz(CT) 0.39 10 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 220 lb FT = 20%						

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 *Except*

5-6: 2x6 SPF No.2, 8-10,1-3: 2x10 SP 2400F 2.0E

9-3-4 6-10-8

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

(size) 10=0-3-8, 1=0-3-8

Max Horz 1=-186(LC 14)

Max Uplift 10=-143(LC 16), 1=-138(LC 16) Max Grav 10=1827(LC 39), 1=1839(LC 39)

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

 $1\hbox{-}2\hbox{--}815/110, 2\hbox{-}3\hbox{--}3822/375, 3\hbox{-}4\hbox{--}3961/477, 4\hbox{-}5\hbox{--}2550/361, 5\hbox{-}6\hbox{--}2188/347,}$ TOP CHORD

6-7=-2550/362, 7-8=-3956/480, 8-9=-3819/377, 9-10=-810/108

BOT CHORD 2-16=-246/3481, 14-16=-168/2751, 13-14=-59/2188, 11-13=-164/2750, 9-11=-243/3476 WEBS

3-16=-727/173, 4-16=-125/1164, 4-14=-910/180, 5-14=-88/840, 6-13=-89/839,

7-13=-908/180, 8-11=-724/175, 7-11=-128/1159

- 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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 19-3-4, Exterior(2E) 19-3-4 to 20-8-12, Exterior(2R) 20-8-12 to 24-11-11, Interior(1) 24-11-11 to 39-10-4 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) 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) Bearing at joint(s) 10, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=143, 1=138. 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 16,2020



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Job Truss Truss Type Qty Summit/61 Woodside 143624419 2524433 **A8** ROOF SPECIAL Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:24 2020 Page 1 Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

17-8-0

20-0-0

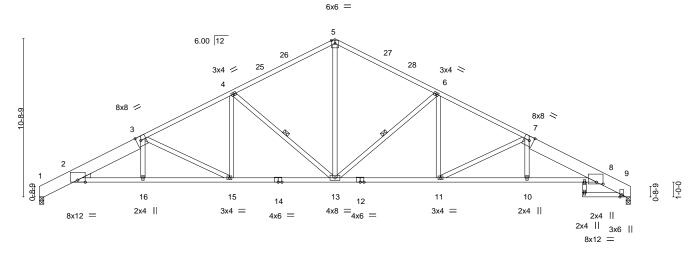
Matrix-AS

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-WFC1vZJUiGVV8llpPAnCCs0xfu5VFFhsl53wPGyJb21

27-0-0 33-0-0 36-9-0 40-0-0 40-11-0 4-6-4 2-5-12 6-0-0 7-0-0 7-0-0 6-0-0 3-9-0 3-3-0 0-11-0

Scale = 1:78.0

FT = 20%



2-5-12 3-11-4 1-4-0 1-11-0 Plate Offsets (X,Y)--[3:0-3-8,Edge], [7:0-3-8,Edge], [8:0-5-5,0-1-8] LOADING (psf) DEFL. SPACING-CSI in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.60 Vert(LL) -0.30 13 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.92 Vert(CT) -0.57 13-15 >840 180 10.0 Rep Stress Incr YES WB 0.78 Horz(CT) 0.37 9 n/a n/a 0.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

27-0-0

33-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied

1 Row at midpt

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 *Except*

10.0

1-3,7-9: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SP No.3

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

Max Horz 1=-194(LC 14)

Max Uplift 1=-138(LC 16), 9=-143(LC 16) Max Grav 1=1804(LC 2), 9=1793(LC 2)

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

TOP CHORD 1-2=-798/116, 2-3=-3887/428, 3-4=-3098/390, 4-5=-2260/361, 5-6=-2260/362,

6-7=-3096/392, 7-8=-3881/432, 8-9=-793/109

BOT CHORD 2-16=-317/3602, 15-16=-315/3608, 13-15=-190/2691, 11-13=-182/2689, 10-11=-319/3601,

13-0-0

Code IRC2018/TPI2014

8-10=-321/3594

WEBS 4-15=-5/552, 4-13=-1008/175, 5-13=-160/1446, 6-13=-1005/176, 6-11=-7/549,

7-11=-1004/151, 3-15=-1010/147

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-10-4 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=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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 1, 9 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) except (jt=lb) 1=138, 9=143,
- 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.



38-1-0_|40-0-0

Weight: 206 lb

36-9-0

4-13, 6-13

November 16,2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to Use Only with New Controlled S. This costign is based only upon parameters shown, and is for an individual druining Component, not a fundamental property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/61 Woodside 143624420 2524433 A9 ROOF SPECIAL Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:26 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-SdJoKFLkEumDO3SCXbqgHH5H9inzj9A8mPY1T9yJb2?

Structural wood sheathing directly applied.

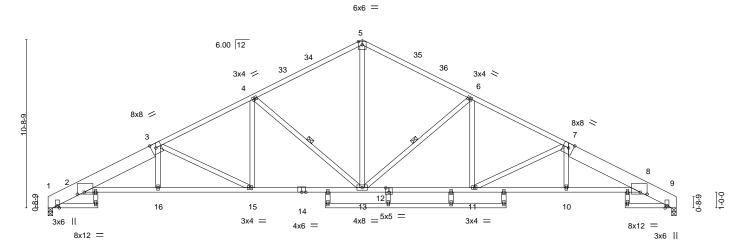
4-13, 6-13

Rigid ceiling directly applied

1 Row at midpt

36-9-0 27-0-0 33-0-0 40-0-0 40-11₋0 0-11-0 4-6-4 2-5-12 6-0-0 7-0-0 7-0-0 6-0-0 3-9-0 3-3-0

Scale = 1:73.4



sets ()	(V)	[2:0-5-5]	1-81 [3·0-	3-8 Edge] [7:0-3-8 Edg	al [8·0-5-5 0-1.	81 [12:0-2-8 (1-3-41						
0-	7-0	3-11-4	2-5-12	6-0-0	4-8-0	2-4-0 1-	-8-0	4-0-0	ነ-4-0 2-2-0	3-10-0	3-9-0	1-4-0 1-11-0	
01		4-6-4	7-0-0	13-0-0	17-8-0	20-0-0 21	-8-0 _I	25-8-0	27-0-0 ₁ 29-2-0) _I 33-0-0	36-9-0	38-1-0 ₁ 40-0-0 ₋₁	

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 0.60 BC 0.92 WB 0.78	DEFL. in (loc) I/defl L/d Vert(LL) -0.30 13 >999 240 Vert(CT) -0.57 13-15 >840 180 Horz(CT) 0.37 9 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDI 10.0	Code IRC2018/TPI2014	Matrix-AS	11012(01) 0.37 9 11/4 11/4	Weight: 225 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3,7-9: 2x10 SP 2400F 2.0E

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

OTHERS 2x4 SPF No.2

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

Max Horz 1=-194(LC 14)

Max Uplift 1=-138(LC 16), 9=-143(LC 16) Max Grav 1=1804(LC 2), 9=1793(LC 2)

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

TOP CHORD 1-2=-798/116, 2-3=-3887/428, 3-4=-3098/390, 4-5=-2260/361, 5-6=-2260/362,

6-7=-3096/392, 7-8=-3881/432, 8-9=-793/109 **BOT CHORD** 2-16=-317/3602, 15-16=-315/3608, 13-15=-190/2691, 11-13=-182/2689, 10-11=-319/3601,

8-10=-321/3594

WEBS 4-15=-5/552, 4-13=-1008/175, 5-13=-160/1446, 6-13=-1005/176, 6-11=-7/549,

7-11=-1004/151, 3-15=-1010/147

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-10-4 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=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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=138, 9=143,
- 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.



November 16,2020



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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624421 2524433 A10 ROOF SPECIAL Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-2n6E7P6BykE3__wMMPT_T3GsCeyl16EC9HizmJyJb2J

7-0-0

27-0-0

7-0-0

Scale = 1:73.4

40-0-0 40-11₋0

0-11-0

3-3-0

36-9-0

3-9-0

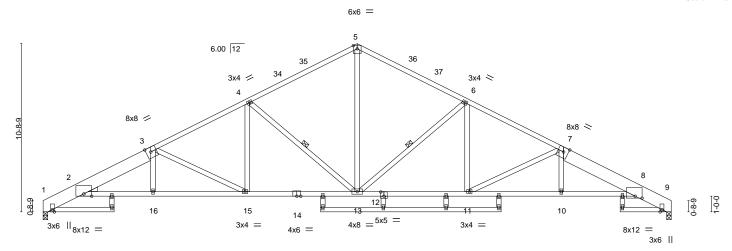
6-0-0

Structural wood sheathing directly applied.

4-13, 6-13

Rigid ceiling directly applied

1 Row at midpt



	1-11-4	4-6-4	7-0-0	13-0-0	17-8-0	20-0-0	21-8-0	25-8-0	27-0-0 ₁ 29-2-0	33-0-0	36-9-0	38-1-0,40-0-0	
1	1-11-4	2-7-0	2-5-12	6-0-0	4-8-0	2-4-0	1-8-0	4-0-0	ነ-4-0 2-2-0	3-10-0	3-9-0	1-4-0 1-11-0	
te ()	X Y)	[3.0-3-8	Edge] [7:0)-3-8 Edge] [8:0-5-5 0-1	-81 [12·0-2-8 0-3	-41							

Plate Offsets (A, f)	[3.0-3-6,⊏uge], [7.0-3-6,⊏uge	ej, [o.0-3-3,0-1-oj, [12.0-2-o,0-3-4	1
			_

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 0.60 BC 0.92 WB 0.78	DEFL. in (loc) l/defl L/d Vert(LL) -0.30 13 >999 240 Vert(CT) -0.57 13-15 >840 180 Horz(CT) 0.37 9 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 228 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

4-6-4

2-5-12

6-0-0

1-3,7-9: 2x10 SP 2400F 2.0E

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

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 9=0-3-8

Max Horz 1=-194(LC 14)

Max Uplift 1=-138(LC 16), 9=-143(LC 16) Max Grav 1=1804(LC 2), 9=1793(LC 2)

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

TOP CHORD 1-2=-798/116, 2-3=-3887/428, 3-4=-3098/390, 4-5=-2260/361, 5-6=-2260/362,

6-7=-3096/392, 7-8=-3881/432, 8-9=-793/109

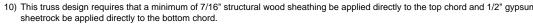
BOT CHORD 2-16=-317/3602, 15-16=-315/3608, 13-15=-190/2691, 11-13=-182/2689, 10-11=-319/3601, 8-10=-321/3594

WEBS 4-15=-5/552, 4-13=-1008/175, 5-13=-160/1446, 6-13=-1005/176, 6-11=-7/549,

7-11=-1004/151, 3-15=-1010/147

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-10-4 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=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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=138, 9=143. 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





November 16,2020



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ANSI/TPI 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 Summit/61 Woodside 143624422 2524433 A11 ROOF SPECIAL Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:08 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8-0-0

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-_AE_Y57RUMUmDl4kTpVSZUMAiRd3V57VdbB4qCyJb2H 26-6-13 33-1-11 39-8-8 2-4-0 6-6-13 6-6-13 6-6-13

Structural wood sheathing directly applied.

4-14

3-14

Rigid ceiling directly applied. Except:

1 Row at midpt

1 Row at midpt

Scale = 1:73.9

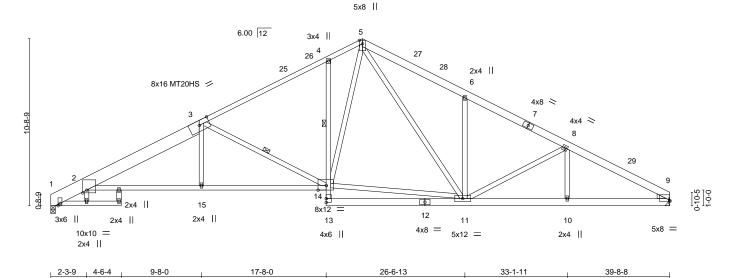


Plate Offsets (X,Y) [2:0-3-0,0	Plate Offsets (X,Y) [2:0-3-0,0-2-3], [9:0-0-0,0-0-13], [14:0-6-4,Edge]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.72 BC 0.90 WB 0.49	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.24 14-15 >999 240 MT20 197/14 Vert(CT) -0.52 14-15 >921 180 MT20HS 148/10 Horz(CT) 0.24 9 n/a n/a 148/10							
BCDI 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 238 lb FT =	20%						

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

3-5: 2x4 SPF No.2, 1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

16-17: 2x4 SP 2400F 2.0E, 12-13,9-12: 2x6 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

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

4-6-4

5-1-12

Max Horz 1=192(LC 15)

Max Uplift 1=-137(LC 16), 9=-144(LC 16) Max Grav 1=1797(LC 2), 9=1781(LC 2)

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

TOP CHORD 1-2=-795/110, 2-3=-3531/403, 3-4=-2527/365, 4-5=-2409/435, 5-6=-2710/475,

6-8=-2668/360, 8-9=-3105/362

BOT CHORD 2-15=-277/3207, 14-15=-275/3213, 4-14=-400/164, 10-11=-251/2661, 9-10=-251/2661 **WEBS**

3-15=0/340, 3-14=-1207/189, 11-14=-42/1610, 5-14=-191/1266, 5-11=-193/963,

6-11=-553/191, 8-11=-453/108

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=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-8-8 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=137, 9=144.
- 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.



November 16,2020



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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

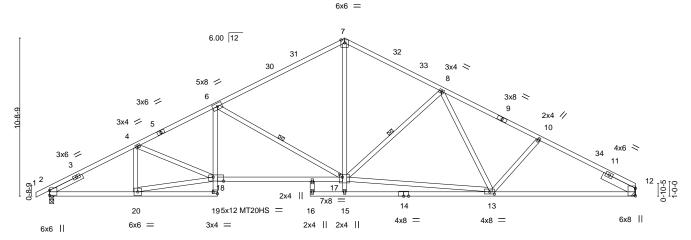


Job Truss Truss Type Qty Summit/61 Woodside 143624423 2524433 A12 ROOF SPECIAL Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:09 2020 Page 1

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-SMoNmR83EfcdrSfx1X0h5iuHArytEWBerFxdNeyJb2G

26-6-13 33-1-11 39-8-8 5-10-0 5-6-8 6-3-8 2-4-0 6-6-13 6-6-13 6-6-13

Scale = 1:78.1



'	5-10-0	5-6-8	6-3-8	2-4-0	6-6-13	3-5-3	3-1-11	6-6-13	
Plate Offsets (X,Y)	[13:0-3-12,0-1-12]	, [17:0-2-8,0-2-4], [18	3:0-8-8,0-3-4], [19:Edge	,0-1-8]					
TCLL (roof) Snow (Pf/Pg) 15.4/2 TCDL BCLL	25.0 Pla 20.0 Lu	mber DOL 1.	15 TC 15 BC	1.00 1.00 0.63	- ' '	in (loc) -0.34 13-15 -0.80 13-15 0.22 12	l/defl L/d >999 24d >596 18d n/a n/d	MT20 MT20HS	GRIP 197/144 148/108
BCDL	10.0 Co	ode IRC2018/TPI201	4 Matrix	-AS				Weight: 188 II	b FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

26-6-13

30-0-0

33-1-11

Structural wood sheathing directly applied.

6-17, 8-17

Rigid ceiling directly applied

1 Row at midpt

39-8-8

20-0-0

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

9-12: 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF No.2 *Except*

2-19,12-14: 2x4 SPF 1650F 1.5E

5-10-0

WEBS 2x4 SPF No.2

Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0 SLIDER

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

Max Horz 2=196(LC 15)

Max Uplift 2=-163(LC 16), 12=-136(LC 16) Max Grav 2=1875(LC 2), 12=1807(LC 2)

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

TOP CHORD 2-4=-3095/330, 4-6=-3373/376, 6-7=-2351/338, 7-8=-2278/347, 8-10=-2790/355,

11-4-8

17-8-0

10-12=-3011/352

BOT CHORD 2-20=-235/2685, 6-18=0/586, 17-18=-226/3035, 12-13=-238/2592 WFBS

4-20=-458/83, 18-20=-175/2581, 4-18=0/325, 6-17=-1231/200, 15-17=0/277, 7-17=-130/1452, 10-13=-269/129, 13-17=-163/2314, 8-17=-665/157, 8-13=0/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital action for the bear considered in 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=5ft; 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 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-8-8 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) 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) 2=163, 12=136.
- 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.



November 16,2020



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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



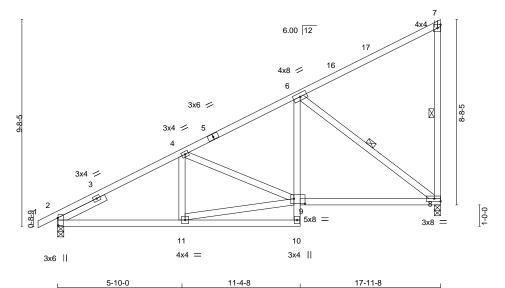
Job Truss Truss Type Qty Summit/61 Woodside 143624424 2524433 B1 Monopitch Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:27 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-wptAXaMM?Bu4?D1O5JLvqVeUB5FoSkyl_3la?byJb2_ 0-11-0

5-6-8

Scale = 1:54.0

GRIP

197/144



BRACING-

TOP CHORD

Plate Offsets (X,Y)-- [2:0-4-2,0-0-4], [9:0-6-4,0-2-12]

5-10-0

8-9 >999 180 8 n/a n/a FT = 20% Weight: 88 lb

PLATES

MT20

BOT CHORD Rigid ceiling directly applied **WEBS** 1 Row at midpt 7-8, 6-8

(loc)

8-9

I/defl

>999

L/d

240

Structural wood sheathing directly applied, except end verticals.

6-7-0

LUMBER-

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

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=309(LC 13)

Max Uplift 8=-83(LC 13), 2=-81(LC 16) Max Grav 8=800(LC 2), 2=867(LC 2)

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

2-4=-1107/214, 4-6=-866/196 TOP CHORD

2-11=-394/990, 6-9=-51/453, 8-9=-307/729 BOT CHORD **WEBS** 9-11=-345/948, 4-9=-307/125, 6-8=-897/282

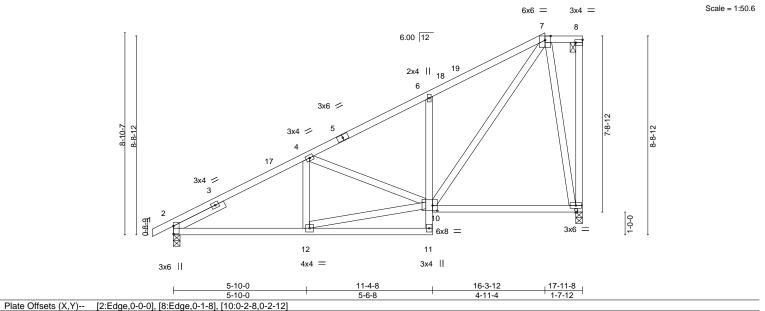
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 17-9-12 zone; cantilever left and right exposed; end vertical left and right 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 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 16,2020



Job Truss Truss Type Summit/61 Woodside 143624425 2524433 B2 Half Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:28 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-O0RYlwN_mV0xdNcae0s8MiBhKVasB3oRDi18X2yJb1z 17-11-8 16-3-12 5-10-0 5-6-8 4-11-4 1-7-12



LOADING (psf)								
TCLL (roof) 25.0	SPACING- 2-0-0	CSI.	DEFL. in	(/		./d	PLATES	GRIP
,	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.06	9-10	>999 2	40	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.14	9-10	>999 1	80		
TCDL 10.0	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.02	9	n/a r	ı/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 96 lb	FT = 20%
BCDL 10.0	0000 11(02010/11 12014	Watrix 710					Weight. 50 lb	11-2070

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 2=278(LC 13)

Max Uplift 9=-82(LC 13), 2=-83(LC 16) Max Grav 9=851(LC 36), 2=867(LC 2)

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

2-4=-1255/154, 4-6=-994/149, 6-7=-1004/231 TOP CHORD

BOT CHORD 2-12=-297/1087. 6-10=-493/154

WEBS 10-12=-266/1054, 4-10=-322/91, 7-10=-201/1128, 7-9=-832/321

- 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 16-3-12, Exterior(2E) 16-3-12 to 17-9-12 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
- 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) 9, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) 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.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied

November 16,2020



MARNING - 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's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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 Summit/61 Woodside 143624426 2524433 ВЗ Half Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:29 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-tC?wyGNcXp8oFXBnCkNNvwjtCvxawYAbSMnh3UyJb1y 14-3-12 -0-11-0 0-11-0 5-10-0 5-6-8 2-11-4 3-7-12 Scale = 1:45.1 6x6 = 3x4 || 8 20 6.00 12 \boxtimes 2x4 || 3x6 / 18 5 7-8-12 3 1-0-0 6x8 = 4x4 = 12 11 3x6 II 4x4 = 3x4 || 5-10-0 11-4-8 5-10-0 5-6-8 Plate Offsets (X,Y)-- [2:Edge,0-0-0], [10:0-2-8,0-2-12] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.29 Vert(LL) -0.06 9-10 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.35 Vert(CT) -0.13 9-10 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.70 Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 92 lb Matrix-AS BCDL 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied, except end verticals, and

BOT CHORD

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

Rigid ceiling directly applied

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

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

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=243(LC 13)

Max Uplift 9=-83(LC 13), 2=-85(LC 16)

Max Grav 9=800(LC 2), 2=898(LC 36)

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

2-4=-1312/158, 4-6=-972/152, 6-7=-927/208 TOP CHORD BOT CHORD 2-12=-303/1127, 6-10=-384/131, 9-10=-172/360

WEBS 10-12=-280/1110, 4-10=-382/94, 7-10=-163/953, 7-9=-739/240

- 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 14-3-12, Exterior(2E) 14-3-12 to 17-9-12 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
- 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) 9, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) 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 16,2020



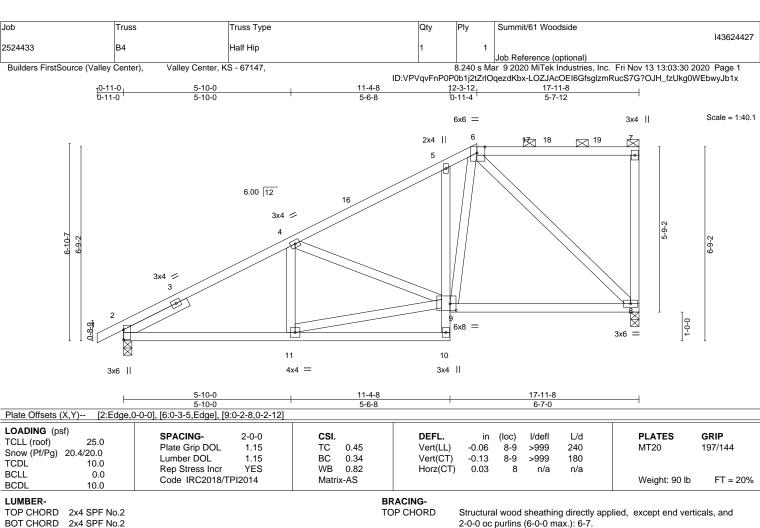
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

Rigid ceiling directly applied

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

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=209(LC 13)

Max Uplift 8=-85(LC 13), 2=-87(LC 16)

Max Grav 8=800(LC 2), 2=939(LC 36)

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

2-4=-1164/166, 4-5=-908/161, 5-6=-817/183 TOP CHORD BOT CHORD 2-11=-302/1110. 5-9=-285/97. 8-9=-209/573

WEBS 9-11=-284/1099, 4-9=-429/93, 6-9=-121/789, 6-8=-774/219

- 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 12-3-12, Exterior(2R) 12-3-12 to 16-6-11, Interior(1) 16-6-11 to 17-9-12 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
- 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.
- 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) 8, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) 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 16,2020

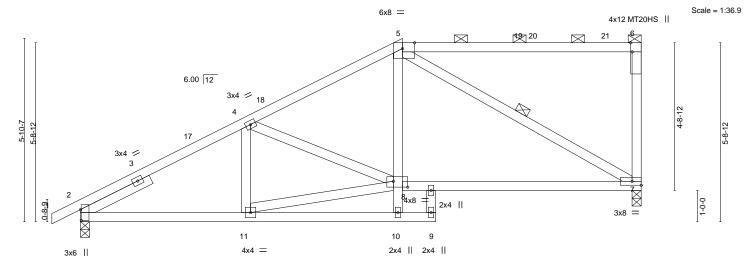


Design Valid to Use Only with New Controlled S. This costign is based only upon parameters shown, and is for an individual druining Component, not a fundamental property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/61 Woodside 143624428 2524433 B5 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:32 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Hng3bIQVqkWM6_vLtsx4XYLDp6vP7_Z18K?LgpyJb1v 11-4-8 0-11-0 5-3-10 5-0-2 1-0-12 6-7-0



	1	5-3-10		5-0	-2	1-0-12			6-7-0)	l	
Plate Offsets (X,Y)	[2:0-4-2,0	-0-4], [5:0-4-10,Edge], [6:	0-3-8,Edge], [8:0-5-8,0-2-	4]							
Snow (Pf/Pg) 20.4/20 TCDL 10	5.0 1.0 0.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.91 0.60 0.33	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.31 0.03	(loc) 7-8 7-8 7	l/defl >999 >700 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
	0.0	Code IRC2018/TPI	2014	Matri	x-AS						Weight: 83 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

11-4-8

17-11-8

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

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals, and

10-3-12

BCDL LUMBER-

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

WEBS 2x4 SPF No.2 Left 2x4 SPF No.2 2-6-0 SLIDER

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

Max Horz 2=173(LC 13)

Max Uplift 7=-63(LC 16), 2=-85(LC 16) Max Grav 7=815(LC 2), 2=957(LC 36)

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

5-3-10

2-4=-1202/164, 4-5=-1017/176, 6-7=-328/88 TOP CHORD

BOT CHORD 2-11=-293/1075, 7-8=-245/850

WEBS 5-8=-22/484, 5-7=-912/229, 8-11=-293/1074, 4-8=-324/63

- 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 10-3-12, Exterior(2R) 10-3-12 to 14-6-11, Interior(1) 14-6-11 to 17-9-12 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 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 16,2020

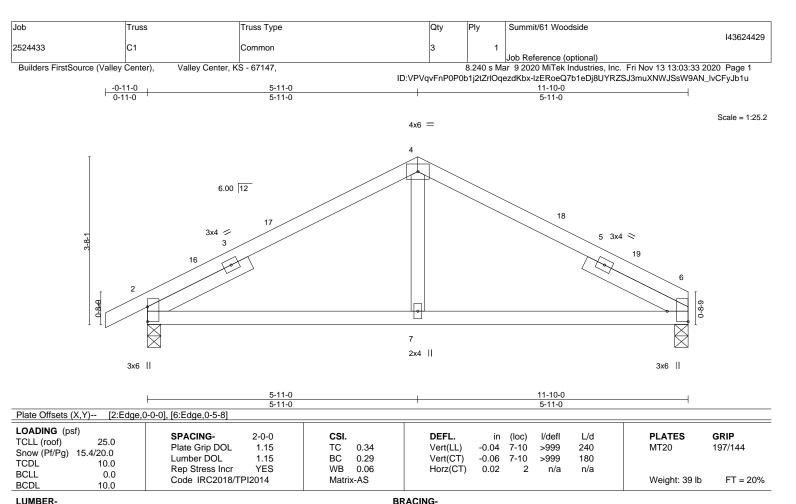


Design valid for use only with MiTek's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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





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 **WEBS** 2x4 SPF No.2

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

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

Max Horz 2=63(LC 15)

Max Uplift 6=-42(LC 16), 2=-72(LC 16) Max Grav 6=530(LC 2), 2=599(LC 2)

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

2-4=-608/236, 4-6=-607/240 TOP CHORD BOT CHORD 2-7=-128/535, 6-7=-128/535

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 5-11-0, Exterior(2R) 5-11-0 to 8-11-0, Interior(1) 8-11-0 to 11-10-0 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) 6, 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.



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MARNING - 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's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

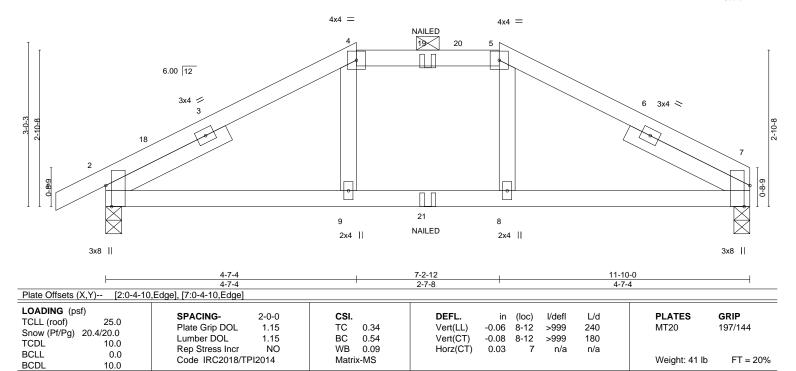
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Summit/61 Woodside 143624430 2524433 C2 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:34 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-DAop?_RIMLm4Ll3k?HzYczRi6wbqbyvKbeUSkhyJb1t 7-2-12 11-10-0 2-7-8 0-11-0 4-7-4

Scale = 1:21.2



LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

BRACING-TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins,

except

2-0-0 oc purlins (5-3-12 max.): 4-5.

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

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

Max Horz 2=49(LC 82)

Max Uplift 7=-189(LC 12), 2=-218(LC 12) Max Grav 7=903(LC 35), 2=989(LC 35)

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

TOP CHORD 2-4=-1316/364, 4-5=-1125/333, 5-7=-1265/364 BOT CHORD 2-9=-277/1144, 8-9=-271/1125, 7-8=-277/1143

WEBS 4-9=-108/357, 5-8=-108/354

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) except (jt=lb) 7=189, 2=218.
- 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 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 344 lb down and 84 lb up at 4-7-4, and 344 lb down and 84 lb up at 7-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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

Continued on page 2



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



November 16,2020



Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					143624430
2524433	C2	Hip Girder	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:35 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-hMMCDKSN7fuxzSewY_Un9BztsKx3KP9TqIE?H8yJb1s

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-51, 4-5=-61, 5-7=-51, 10-14=-20

Concentrated Loads (lb)

Vert: 9=-344 8=-344 19=-92(B) 21=117(B)



Job Truss Truss Type Qty Summit/61 Woodside 143624431 D1 2524433 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:35 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-hMMCDKSN7fuxzSewY_Un9BztrK?1KQfTqIE?H8yJb1s -0-11-0 0-11-0 12-11-0 6-0-0 6-0-0 0-11-0

Scale = 1:24.8

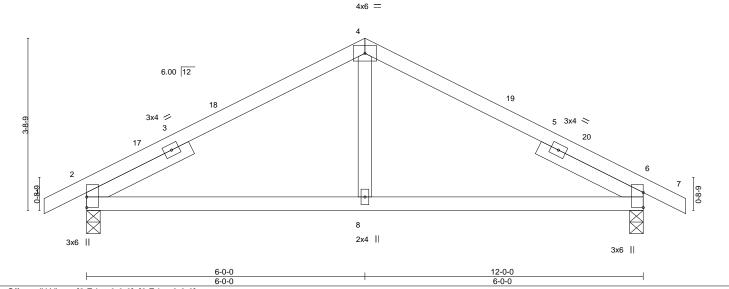


Plate Offsets (X,Y)--[2:Edge,0-0-0], [6:Edge,0-0-0] LOADING (psf) GRIP SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.04 8-11 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) -0.06 8-11 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 41 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

BCDL LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 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 Max Horz 2=-66(LC 14)

10.0

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=-610/235, 4-6=-610/235 TOP CHORD 2-8=-94/538, 6-8=-94/538 BOT CHORD

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.

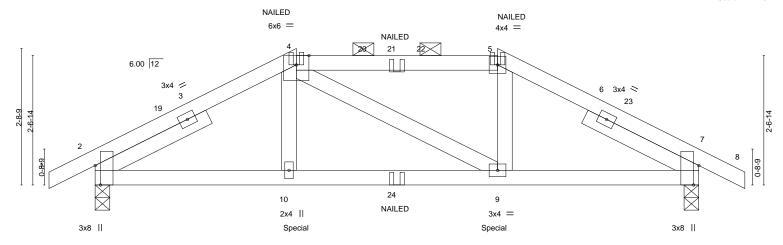


November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624432 2524433 D2 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:37 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-elUye?UdeG8fCloJgPWFEc2Ak7buoJgmHcj6L0yJb1q 12-0-0 12-11-0 0-11-0 4-0-0 4-0-0 0-11-0

Scale = 1:22.9



	4-0-0	4-0-0		4-0-0		
Plate Offsets (X,Y) [2:0-4-10,	,Edge], [7:0-4-10,Edge]					
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 NO Code IRC2018/TPI2014	CSI. TC 0.57 BC 0.65 WB 0.09 Matrix-MS	DEFL. ii Vert(LL) -0.06 Vert(CT) -0.16 Horz(CT) 0.03	6 9-10 >999 240 0 9-10 >999 180	PLATES MT20 Weight: 47 lb	GRIP 197/144 FT = 20%

8-0-0

LUMBER-

2x4 SPF No.2 TOP CHORD

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

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-5-15 oc purlins,

12-0-0

2-0-0 oc purlins (4-5-13 max.): 4-5.

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

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

Max Horz 2=-46(LC 56)

Max Uplift 2=-121(LC 12), 7=-121(LC 12) Max Grav 2=1029(LC 35), 7=1029(LC 35)

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

4-0-0

2-4=-1431/164, 4-5=-1231/161, 5-7=-1432/164 TOP CHORD **BOT CHORD** 2-10=-90/1251, 9-10=-91/1230, 7-9=-87/1252

WEBS 4-10=0/342, 5-9=0/351

- 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) except (it=lb) 2=121, 7=121,
- 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 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 274 lb down and 47 lb up at 4-0-0, and 274 lb down and 47 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the

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

13) 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

Continued on page 2



November 16,2020



Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					143624432
2524433	D2	Hip Girder	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:37 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-elUye?UdeG8fCloJgPWFEc2Ak7buoJgmHcj6L0yJb1q

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-51, 4-5=-61, 5-8=-51, 11-15=-20

Concentrated Loads (lb)

Vert: 5=-78(B) 10=-274(B) 9=-274(B) 4=-78(B) 21=-73(B) 24=-33(B)



Job Truss Truss Type Summit/61 Woodside 143624433 2524433 JA1 Jack-Closed Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:38 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-6x2KrLUGPaGWqvNVE71UmpbPeXz2XnmwWGSqtTyJb1p

0-11-0 2-4-12 1-6-8

Scale = 1:16.3

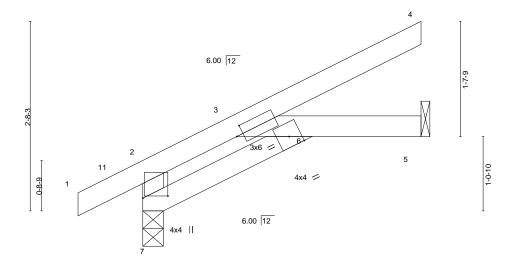


Plate Offsets (X,Y)	[2:0-0-14.0-1-12], [3:0-1-3.0-1-8], [7:0-0-14.0-1-12], [7:0-0-6.0-4-4]

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 0.31 BC 0.52 WB 0.03	DEFL. in (loc) l/defl L Vert(LL) 0.04 6 >999 24 Vert(CT) -0.06 6 >794 18 Horz(CT) 0.03 5 n/a n	0 MT20 197/144 0
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 13 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-11-4 oc purlins.

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

REACTIONS.

(size) 7=0-3-8, 5=Mechanical

Max Horz 7=90(LC 16)

Max Uplift 7=-23(LC 16), 5=-58(LC 16) Max Grav 7=264(LC 2), 5=171(LC 2)

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 Exterior(2E) -0-11-0 to 1-10-15, Interior(1) 1-10-15 to 3-11-4 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
- 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) Bearing at joint(s) 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 100 lb uplift at joint(s) 7, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624434 2524433 JA2 Jack-Closed Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:45 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

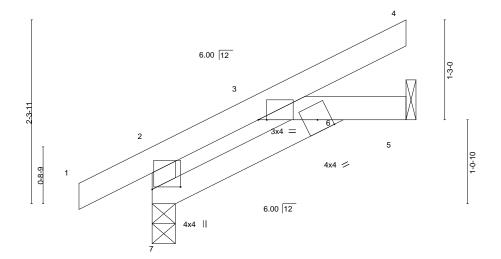
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-PHz_Jkafmj9WA_Pr85g7ZlOefMQXgxYx7sfXdZyJb1i

Structural wood sheathing directly applied or 3-2-3 oc purlins.

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

0-11-0

Scale = 1:14.4



BRACING-TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-14,0-1-12], [3:0-1	-4,Edge], [7:0-0-14,0-1	-12], [7:0-0-6,0-4-4]

CADING (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 0.13 BC 0.28 WB 0.03	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 10 >999 240 Vert(CT) -0.02 10 >999 180 Horz(CT) 0.01 5 n/a n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 11 lb	FT = 20%
BCDL 10.0				g	2070

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=74(LC 16)

Max Uplift 7=-23(LC 16), 5=-42(LC 16) Max Grav 7=249(LC 21), 5=146(LC 21)

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 Exterior(2E) -0-11-0 to 1-10-15, Interior(1) 1-10-15 to 3-2-3 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.
- Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 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 100 lb uplift at joint(s) 7, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624435 2524433 JA3 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:46 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-tTXMX4aHX1HNn8_2ioBM5VwnVljePOE5MWO59?yJb1h 3-3-3 3-3-3 1-3-9 Scale = 1:17.3 2x4 || 4.24 12 NAILED NAILED 5 1-0-1 6x6 = 2x4 || NAILED 4.04 12 3x6 || Plate Offsets (X,Y)-- [3:0-3-0,0-1-15] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.05 3 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.41 Vert(CT) -0.08 3-5 >742 180 TCDL 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.06 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 18 lb Matrix-MR BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 6=0-3-7, 5=Mechanical Max Horz 6=72(LC 9)

Max Uplift 6=-66(LC 12), 5=-20(LC 12)

Max Grav 6=345(LC 2), 5=236(LC 17)

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

TOP CHORD 2-6=-321/77

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); cantilever left and right exposed; end vertical left and right exposed; Lumber 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) Bearing at joint(s) 6 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) 6, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "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, 3-4=-51, 3-6=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 9=-3(F) 10=1(B)



Structural wood sheathing directly applied or 5-5-5 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals

November 16,2020



Design valid for use only with MiTek's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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 Summit/61 Woodside 143624436 2524433 JA4 MONOPITCH Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:46 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-tTXMX4aHX1HNn8_2ioBM5Vwr?lppPOE5MWO59?yJb1h 1-10-3 Scale = 1:11.1 3x6 ||

6.00 12 Copy Copy	6-8-0
2x4 📁	
1-10-3 1-10-3	

		1 10 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 Rep Stress Incr YES	CSI. TC 0.03 BC 0.02 WB 0.00	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0	0 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 BOT CHORD

WEBS 2x4 SPF No.2

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

Max Horz 4=33(LC 13)

Max Uplift 3=-16(LC 13)

Max Grav 3=73(LC 27), 4=70(LC 2)

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 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 4 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) 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.



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

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

except end verticals.

November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624437 2524433 JA5 HALF HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:47 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Lg5kkQbvlLPEPIZEFWibejTtY9xr8oNEbA8eiRyJb1g

1-7-10

3-4-0

3-4-0

Structural wood sheathing directly applied or 5-0-13 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

Scale = 1:18.6

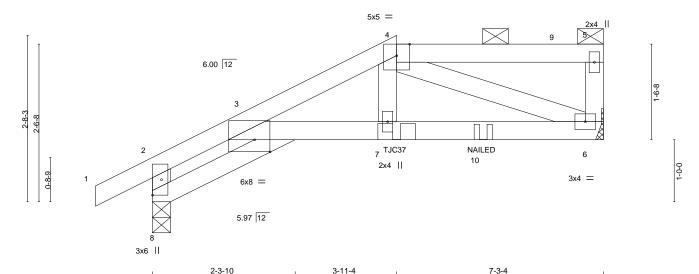


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [3:0-3-0,0-2-5], [8:0-0-14,0-1-12], [8:Edge,0-1-12]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.62	DEFL. in (loc) I/defl L/d Vert(LL) -0.07 3-7 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.12 3-7 >715 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.20	Horz(CT) 0.10 6 n/a n/a	W-1
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 26 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 8=0-3-8, 6=Mechanical

0-11-0

2-3-10

Max Horz 8=71(LC 50)

Max Uplift 8=-88(LC 12), 6=-102(LC 9) Max Grav 8=569(LC 32), 6=530(LC 31)

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

TOP CHORD 2-8=-537/113, 2-3=-391/86, 3-4=-981/172

BOT CHORD 3-7=-176/889, 6-7=-170/853 WFBS 4-7=-70/470, 4-6=-857/158

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; 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) Bearing at joint(s) 8 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) 8 except (jt=lb) 6=102
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 13) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 3-11-4 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2 LOAD CASE(S) Standard

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

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



OF MISS

November 16,2020



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					143624437
2524433	JA5	HALF HIP GIRDER	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:48 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-pse6xmcX3eX51R7QpDDqAw01lZH4tFdOpqtBEtyJb1f

LOAD CASE(S) Standard

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

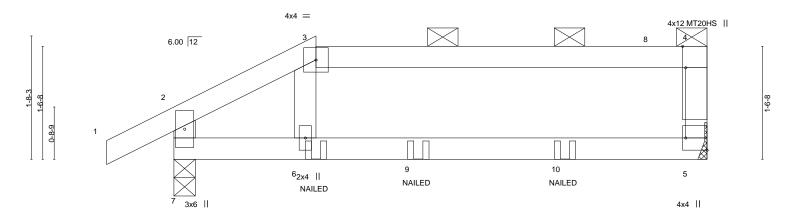
Vert: 1-2=-51, 2-3=-51, 3-4=-51, 4-5=-61, 3-8=-20, 3-6=-20 Concentrated Loads (lb)

Vert: 7=-207(B) 10=-146(B)



Job Truss Truss Type Qty Summit/61 Woodside 143624438 2524433 JA6 Half Hip Girder 1 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:48 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-pse6xmcX3eX51R7QpDDqAw03zZOAtlMOpqtBEtyJb1f 0-11-0 1-11-4 5-4-0

Scale = 1:15.7



	1-11-4	1	7-3-4	
	1-11-4	I	5-4-0	
Plate Offsets (X,Y) [4:0-3-8,E	Edge], [5:Edge,0-3-8]			
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 NO	CSI. TC 0.51 BC 0.47 WB 0.02	DEFL. in (loc) l/defl L/d Vert(LL) 0.09 5-6 >948 240 Vert(CT) -0.14 5-6 >609 180 Horz(CT) 0.00 5 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 21 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 5=Mechanical, 7=0-3-8

Max Horz 7=51(LC 11) Max Uplift 5=-122(LC 9), 7=-147(LC 12) Max Grav 5=424(LC 31), 7=474(LC 2)

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

2-3=-397/142, 3-4=-331/118, 4-5=-277/66, 2-7=-361/131 TOP CHORD

BOT CHORD 6-7=-129/329, 5-6=-125/328

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
- 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) 5=122, 7=147.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) 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



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

November 16,2020



👠 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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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Qty Job Truss Truss Type Summit/61 Woodside 143624438 2524433 JA6 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:49 2020 Page 2

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-H2CU96d9qyfyebidNwk3j8YEjzkPclcX2UdlmKyJb1e

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 3-4=-61, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-70(F) 9=-40(F) 10=-40(F)

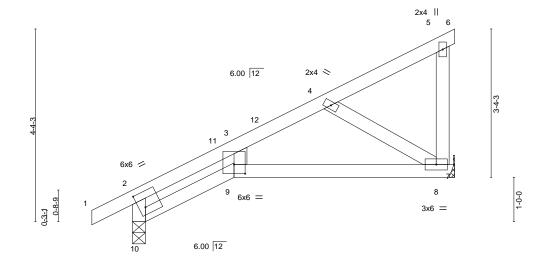
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/61 Woodside 143624439 2524433 JA7 Jack-Closed Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-H2CU96d9qyfyebidNwk3j8YGZzowcksX2UdlmKyJb1e 4-5-12

-0-11-0 0-11-0 2-3-8 2-3-8 2-2-4 2-9-8

Scale = 1:26.0



4-11-12

BRACING-

Plate Offsets (X,Y)-- [2:0-1-15,0-0-0], [2:0-1-11,0-4-1], [3:0-1-12,0-0-14], [9:0-3-0,0-2-8], [10:0-0-14,0-1-12]

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 0.33 BC 0.25 WB 0.07	Vert(CT) -0.0	in (loc) .04 9 .08 8-9 .04 8	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 26 lb	FT = 20%
BCDL 10.0	0006 11(02010/1F12014	Wattix-AS					Weight. 20 ib	1 1 = 20 /0

LUMBER-

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

Rigid ceiling directly applied. **WEBS** 2x4 SPF No.2

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

Max Horz 10=131(LC 13)

Max Uplift 8=-38(LC 13), 10=-50(LC 16) Max Grav 8=354(LC 21), 10=388(LC 2)

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

2-10=-490/199, 2-3=-533/137, 3-4=-365/124 TOP CHORD

BOT CHORD 9-10=-346/422, 8-9=-296/355

WFBS 4-8=-382/300

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 7-3-4 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
- 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) 10 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) 8, 10.
- 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.



Structural wood sheathing directly applied, except end verticals.

November 16,2020



MARNING - 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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624440 2524433 JA8 HALF HIP Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:50 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-lFmsMSenbGnpGlHpxeFlGL5PeN4zLBphH8MlImyJb1d 5-11-4 3-7-10 0-11-0 2-3-10 1-4-0 Scale = 1:23.1 5x5 = 2x4 || 5 14 6.00 12 13

2-3-10 5-11-4 7-3-4 2-3-10 3-7-10 1-4-0

Plate Offsets (X Y)-- [3:0-5-8 0-2-12] [8:0-4-5 0-4-4] [8:0-3-15 0-0-0]

1 1010 0110010 (71,1) [0.0 0 0,1	Trace Oriotic (X,1) [0.0 0 0,0 2 12]; [0.0 1 0,0 1 1]; [0.0 0 10,0 0 0]							
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 0.50 BC 0.45 WB 0.09	DEFL. in (loc) l/defl L/d PLATES GRI Vert(LL) -0.05 8 >999 240 MT20 197 Vert(CT) -0.08 8 >998 180 Horz(CT) 0.05 6 n/a n/a n/a	IP '/144				
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 31 lb	FT = 20%				
BCDL 10.0	Code IRC2016/1712014	Matrix-A3	vveignt. 31 ib	F1 = 20%				

TOP CHORD

BOT CHORD

LUMBER- BRACING-

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

3-6: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 9=0-3-8, 6=Mechanical

Max Horz 9=105(LC 13)

Max Uplift 9=-53(LC 16), 6=-36(LC 13) Max Grav 9=469(LC 36), 6=308(LC 2)

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

TOP CHORD 2-9=-447/216, 3-4=-355/96

BOT CHORD 8-9=-261/164, 3-8=0/250, 7-8=-172/250

WEBS 4-6=-477/287, 4-7=-182/373

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 2-1-13, Interior(1) 2-1-13 to 5-11-4, Exterior(2E) 5-11-4 to 7-1-8 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) Bearing at joint(s) 9 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) 9, 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied

November 16,2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/61 Woodside 143624441 2524433 JA9 Jack-Closed Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:51 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-DRKFaoePLZvguvs?ULmXoZeUnmT_4eFqVn6srCyJb1c

5-1-10 2-3-8 2-3-8 2-10-2 2-1-10

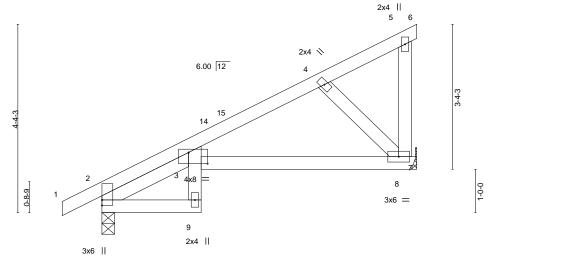
Scale = 1:26.6

FT = 20%

Weight: 29 lb

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



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

Matrix-AS

time amang (1) (1) [magaya a ajj jana a 1) a a a								
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 0.86 BC 0.27 WB 0.08	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.16 9 -0.24 9 0.20 8	l/defl >533 >346 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
	Cada IDC0040/TD10044	Matrix AC	1				14/a:abt. 20 lb	ET 200/

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

SLIDER Left 2x4 SPF No.2 2-3-6

10.0

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

Max Horz 2=122(LC 13)

Max Uplift 8=-36(LC 13), 2=-46(LC 16) Max Grav 8=359(LC 21), 2=383(LC 2)

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

Code IRC2018/TPI2014

-0-11-0 0-11-0

3-11=-617/342, 3-4=-327/115 TOP CHORD

BOT CHORD 3-8=-284/343 **WEBS** 4-8=-471/345

- 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 2-1-12, Interior(1) 2-1-12 to 7-3-4 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
- 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) 8, 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624442 2524433 JA10 Half Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:39 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-a7ci3hVuAtONR3xinqZjJ18ZqxK_GDo3lwCDQvyJb1o 2-3-8 0-11-0 3-7-12 1-4-0 Scale = 1:22.2 5x5 = 2x4 || 18 5 6.00 12 2x4 || 8-9-8 7 6 5x8 1-0-0 0-8-9 3x12 || 4x4 = 8 2x4 || 3x6 || 1-4-0 Plate Offsets (X,Y)-- [2:0-2-8,0-0-4], [3:0-9-8,0-3-7] LOADING (psf) DEFL. SPACING-2-0-0 CSI in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.05 8 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.48 Vert(CT) -0.108 >856 180 TCDL 10.0 Rep Stress Incr NO WB 0.11 Horz(CT) 0.04 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 34 lb Matrix-AS BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and **BOT CHORD** 2x4 SPF No.2 *Except* 2-0-0 oc purlins (6-0-0 max.): 4-5. 3-6: 2x6 SPF No.2 **BOT CHORD** Rigid ceiling directly applied **WEBS** 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 1-11-15

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

Max Horz 2=96(LC 13)

Max Uplift 6=-32(LC 13), 2=-43(LC 16) Max Grav 6=322(LC 2), 2=478(LC 36)

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

TOP CHORD 3-10=-866/335, 3-4=-356/105

BOT CHORD 3-7=-174/278

WEBS 4-7=-198/445, 4-6=-528/290

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 5-11-4, Exterior(2E) 5-11-4 to 7-1-8 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) 6, 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.
- 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 16,2020



Design Valid to Use Only with New Controlled S. This costign is based only upon parameters shown, and is for an individual druining Component, not a fundamental property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/61 Woodside 143624443 2524433 JA11 Half Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:40 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-2K95G1WWxBWE3DWuLY4ysEglYLhJ?gzC_axmyLyJb1n

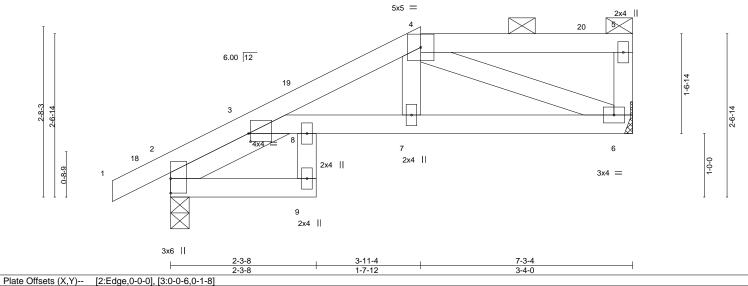
Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied

0-11-0 2-3-8 1-7-12

Scale = 1:18.1



LOADING (ps TCLL (roof)	sf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.28	DEFL. Vert(LL)	in -0.03	(loc) 16	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	16	>999	180	IVITZU	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.03	6	>999 n/a	n/a		
BCLL	0.0	Code IRC2018/TF		1	x-AS	11012(01)	0.03	O	II/a	II/a	Weight: 29 lb	FT = 20%
BCDL	10.0	Code INC2016/11	12014	iviatii	X-A3						Weight. 29 ib	F1 = 20 /6

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 Left 2x4 SPF No.2 1-11-15 SLIDER

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

Max Horz 2=63(LC 13)

Max Uplift 6=-35(LC 13), 2=-52(LC 16) Max Grav 6=318(LC 35), 2=427(LC 36)

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

3-11=-638/375, 3-4=-504/233 TOP CHORD

BOT CHORD 3-8=-468/278, 7-8=-278/468, 6-7=-273/451

WEBS 4-6=-488/280

- 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 3-11-4, Exterior(2E) 3-11-4 to 7-1-8 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) 6, 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.
- 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 16,2020



a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624444 2524433 JA12 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:41 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-WWjTTNX8iVe5hN54vFbBOSDxik1gk8?MCEhKUnyJb1m

Structural wood sheathing directly applied or 2-7-6 oc purlins.

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

2-7-6

Scale = 1:11.0

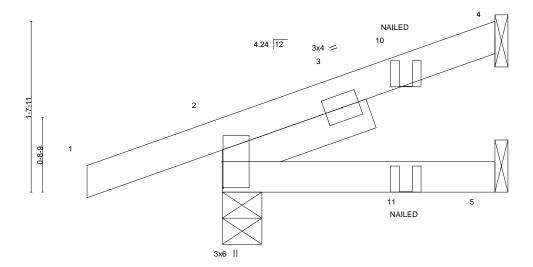


Plate Offsets (X Y)-- [2:0-3-0 0-0-1]

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 NO	CSI. TC 0.26 BC 0.34 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 5-8 >999 240 Vert(CT) -0.02 5-8 >999 180 Horz(CT) 0.01 2 n/a n/a	PLATES GRIP MT20 197/144			
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	11012(C1) 0.01 2 11/4 11/4	Weight: 10 lb FT = 20%			

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-9, 5=Mechanical

Max Horz 2=56(LC 43)

Max Uplift 2=-58(LC 12), 5=-38(LC 12) Max Grav 2=235(LC 17), 5=98(LC 17)

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

TOP CHORD 2-4=-219/393

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); cantilever left and right exposed; end vertical left and right exposed; 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

1-3-9

- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-4=-51, 5-6=-20 Concentrated Loads (lb) Vert: 11=1(F)



November 16,2020



\Lambda 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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624445 2524433 JA13 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:42 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-_iHrhjXmTonyJWgGTy6Qxfm8F8SrTaFVRuQt0EyJb1I

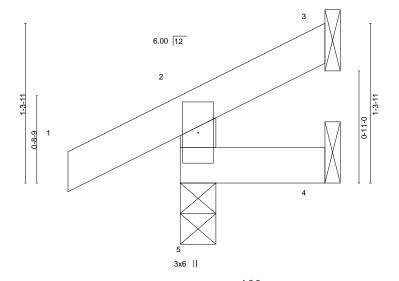
Structural wood sheathing directly applied or 1-2-3 oc purlins,

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

except end verticals.

0-11-0 1-2-3

Scale = 1:9.4



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 0.08 BC 0.02 WB 0.00	Vert(CT) 0	in (loc) 0.00 5 0.00 5 0.00 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MR	, ,				Weight: 4 lb	FT = 20%
BCDL 10.0							110191111111	,,

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=48(LC 16)

Max Uplift 5=-35(LC 16), 3=-9(LC 20), 4=-1(LC 13) Max Grav 5=159(LC 2), 3=11(LC 28), 4=16(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 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, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624446 2524433 JA14 Jack-Closed Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:42 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-_iHrhjXmTonyJWgGTy6Qxfm628QOTaFVRuQt0EyJb1l

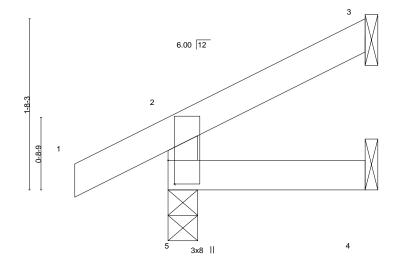
Structural wood sheathing directly applied or 1-11-4 oc purlins,

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

except end verticals.

0-11-0 1-11-4

Scale = 1:11.3



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 0.22 BC 0.18 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.01 4-5 >999 240 Vert(CT) -0.00 4-5 >999 180 Horz(CT) 0.00 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=78(LC 16)

Max Uplift 5=-75(LC 16), 4=-53(LC 16) Max Grav 5=182(LC 21), 4=60(LC 21)

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 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, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty Summit/61 Woodside 143624447 2524433 JA15 Jack-Closed Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:43 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-SurDu3Y0E6vpwgFT0gdfTtlHoYmdC1VfgYARZgyJb1k

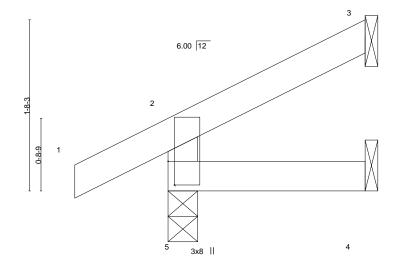
Structural wood sheathing directly applied or 1-11-4 oc purlins,

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

except end verticals.

0-11-0 1-11-4

Scale = 1:11.3



1-11-4

Plate Offsets (X,Y)	[2:0-0-14,0-1-12], [5:0-2-13,0-0-12], [5:0-0-0,0-1-12]
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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 0.22 BC 0.18 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.01 4-5 >999 240 Vert(CT) -0.00 4-5 >999 180 Horz(CT) 0.00 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

REACTIONS.

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

Max Horz 5=78(LC 16)

Max Uplift 5=-75(LC 16), 4=-53(LC 16) Max Grav 5=182(LC 21), 4=60(LC 21)

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 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, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 16,2020

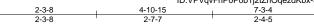


Job Truss Truss Type Qty Summit/61 Woodside 143624448 2524433 JA16 Jack-Closed Job Reference (optional)

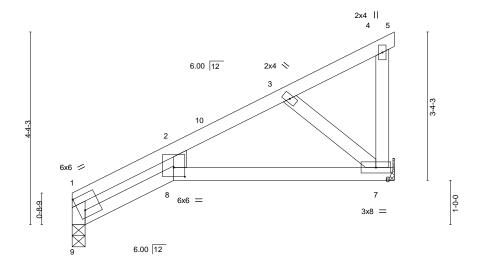
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:43 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-SurDu3YOE6vpwgFT0gdfTtlFKYIPC0UfgYARZgyJb1k



Scale = 1:26.0



4-11-12 Plate Offsets (X,Y)-- [1:0-1-15.0-0-0], [1:0-1-11.0-4-1], [2:0-1-12.0-0-14], [8:0-3-0.0-2-8], [9:0-0-14.0-1-12]

Trace Official (X, 1) [1.0 + 10,0 0 0]; [1.0 + 11,0 + 1]; [2.0 + 12,0 0 + 1], [0.0 0 0,0 2 0]; [0.0 0 + 1,0 + 12]							
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 0.38 BC 0.25 WB 0.07	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 7-8 >999 240 Vert(CT) -0.10 7-8 >835 180 Horz(CT) 0.05 7 n/a n/a	PLATES GRIP MT20 197/144			
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 25 lb FT = 20%			

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

WEBS 2x4 SPF No.2 REACTIONS. (size) 7=Mechanical, 9=0-3-8

10.0

Max Horz 9=123(LC 13) Max Uplift 7=-38(LC 13), 9=-16(LC 16) Max Grav 7=358(LC 20), 9=308(LC 2)

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

TOP CHORD 1-9=-384/137, 1-2=-474/103, 2-3=-331/124

BOT CHORD 8-9=-297/368, 7-8=-259/315

WFBS 3-7=-374/287

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-3-4 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
- 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 9 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) 7, 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624449 2524433 JA17 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:44 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-w5Pb6OZ0?Q1gYqqfaN8u04rUly8KxUlouCv_56yJb1j

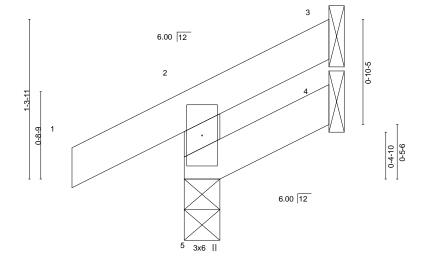
Structural wood sheathing directly applied or 1-2-3 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

0-11-0 1-2-3

Scale = 1:9.4



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 0.08 BC 0.02 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,					Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=49(LC 16) Max Uplift 5=-33(LC 16), 3=-9(LC 20), 4=-2(LC 13) Max Grav 5=159(LC 2), 3=11(LC 28), 4=16(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 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) 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, 4.
- 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.

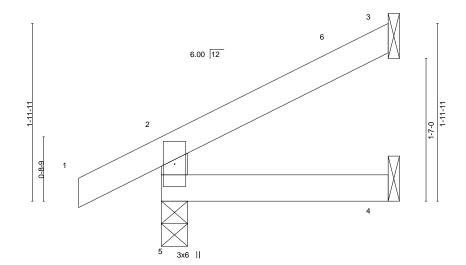


November 16,2020

Job Truss Truss Type Qty Summit/61 Woodside 143624450 2524433 JC1 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:52 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-hdudn8f26t1XV3RB23ImLmArgAtip6jzkRrPNfyJb1b 2-6-3

2-6-3

Scale = 1:12.8



		<u>'</u>	2-6-3		'			
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 Code IRC2018/TPI2014	CSI. TC 0.08 BC 0.05 WB 0.00 Matrix-MR	Vert(CT) -	in (loc) -0.00 4-5 -0.00 4-5 -0.00 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 8 lb	GRIP 197/144 FT = 20%
BCDL 10.0	00dc 11(02010/11 12014	Watrix WITC					Worght. O ib	11 = 2070

2-6-3

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=65(LC 16)

Max Uplift 5=-30(LC 16), 3=-23(LC 16)

Max Grav 5=206(LC 21), 3=69(LC 21), 4=42(LC 7)

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 Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 2-5-7 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

0-11-0

- 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.



Structural wood sheathing directly applied or 2-6-3 oc purlins,

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

except end verticals.

November 16,2020





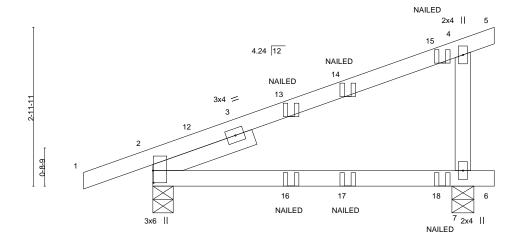


Job Truss Truss Type Qty Summit/61 Woodside 143624451 2524433 JC2 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:53 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-AqS??TggtB9O7D0Ocmp?t_juLa6YYZK7z5byv5yJb1a

1-3-9 3-2-5 3-2-5

Scale = 1:21.6



6-0-1 6-4-10 [2:0-2-12 0-0-1]

		0_0	20.2	0.0		
Plate Offsets (X,Y) [2:0-2-12	2,0-0-1]					
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 NO Code IRC2018/TPI2014	CSI. TC 0.60 BC 0.40 WB 0.04 Matrix-MP	DEFL. in (loc) Vert(LL) -0.07 7-10 Vert(CT) -0.13 7-10 Horz(CT) 0.03 2	l/defl L/d >999 240 >544 180 n/a n/a	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS. (size) 2=0-4-9, 7=0-4-15 Max Horz 2=85(LC 12)

Max Uplift 2=-46(LC 12), 7=-56(LC 12)

Max Grav 2=361(LC 2), 7=372(LC 17)

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

TOP CHORD 2-4=-273/63 WEBS 4-7=-263/77

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); cantilever left and right exposed; end vertical left and right exposed; Lumber 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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: 1-5=-51, 6-8=-20

Concentrated Loads (lb)

Vert: 14=-5(B) 15=-60(F) 16=0(F) 17=-1(B) 18=-18(F)



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

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

November 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624452 2524433 JC3 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:53 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, $ID: VPVqvFnP0P0b1j2tZrlOqezdKbx-AqS??TggtB9O7D0Ocmp?t_j0RaCKYZz7z5byv5yJb1a$

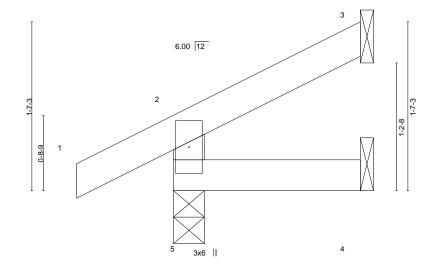
Structural wood sheathing directly applied or 1-9-3 oc purlins,

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

except end verticals.

1-9-3 0-11-0 1-9-3

Scale = 1:10.9



1-9-3 1-9-3

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.08 0.03 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/T	DI2014	Matri	ix-MR	1 ' '					Weight: 6 lb	FT = 20%
BCDL 10.0	Code INC2010/1	1 12014	Iviatii	V-IAII						Weight. Old	11 - 2070

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=56(LC 16)

Max Uplift 5=-32(LC 16), 3=-14(LC 16)

Max Grav 5=175(LC 21), 3=38(LC 21), 4=28(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 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624453 2524433 JC4 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:54 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-e00NCphleUHFIMbaAUKEQBG9N_X3H0DGClKWSXyJb1Z 3-9-3 3-9-3 0-11-0 Scale: 3/4"=1' 6.00 12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.01 240 197/144 1.15 TC 0.19 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 180

LUMBER-

REACTIONS.

TCDI

BCLL

BCDL

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

10.0

0.0

10.0

BOT CHORD WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=83(LC 16)

Max Uplift 5=-29(LC 16), 3=-36(LC 16)

Max Grav 5=271(LC 21), 3=121(LC 21), 4=67(LC 7)

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

Rep Stress Incr

Code IRC2018/TPI2014

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 3-8-7 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

YES

WB

Matrix-MR

0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

3

except end verticals.

n/a

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

n/a

Structural wood sheathing directly applied or 3-9-3 oc purlins,

- 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.



Weight: 11 lb

FT = 20%

November 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624454 2524433 JC5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-6CZlP9hwPoP6MWAmjBrTzPoJiOsF0TTQQP43_zyJb1Y 0-11-0 4-7-4 Scale = 1:17.9

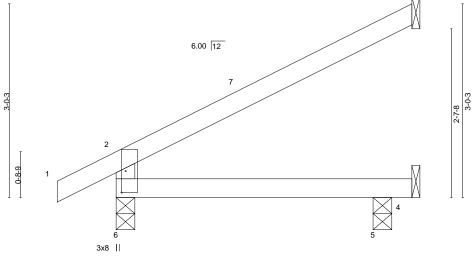


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [6:0-4-0,0-0-12], [6:0-0-0,0-1-12] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.29 Vert(LL) -0.01 5-6 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) -0.025-6 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 13 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

WEBS 2x4 SPF No.2

REACTIONS. All bearings 0-3-8 except (jt=length) 3=Mechanical, 4=Mechanical.

Max Horz 6=94(LC 16)

10.0

Max Uplift All uplift 100 lb or less at joint(s) 6, 3, 5 except 4=-174(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 3, 4 except 6=261(LC 2), 5=287(LC 7)

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

TOP CHORD 2-6=-251/154

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 4-6-8 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) 6, 3, 5 except (it=lb) 4=174.
- 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 16,2020





Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624455 2524433 JD1 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-6CZlP9hwPoP6MWAmjBrTzPoMCOtk0TiQQP43_zyJb1Y

2-9-3

5-6-6

Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

Scale = 1:17.5

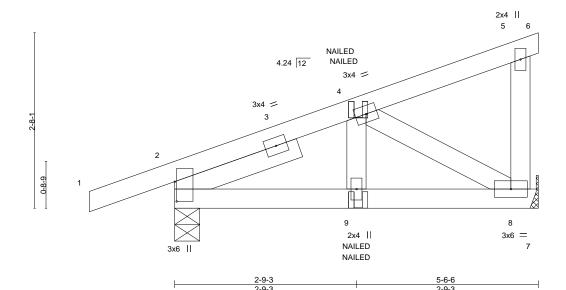


Plate Offsets (X,Y)-- [2:0-3-10,0-0-5] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.13 Vert(LL) -0.00 9 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.09 Vert(CT) -0.00 9 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.05 Horz(CT) 0.00 8 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MP Weight: 23 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS. (size) 2=0-4-9, 8=Mechanical

Max Horz 2=83(LC 11)

Max Uplift 2=-60(LC 12), 8=-19(LC 12) Max Grav 2=339(LC 2), 8=270(LC 17)

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

1-3-9

WEBS 4-8=-285/30

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); cantilever left and right exposed; end vertical left and right exposed; Lumber 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) 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-5=-51, 5-6=-51, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-2(F=-1, B=-1)



November 16,2020



\Lambda 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

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624456 2524433 JD2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:56 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

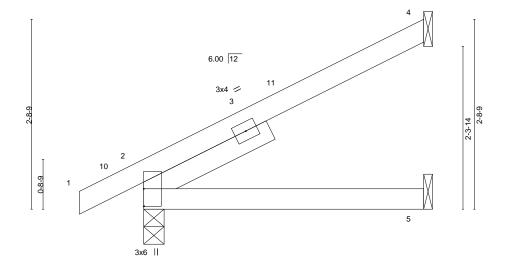
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Structural wood sheathing directly applied.

Rigid ceiling directly applied

4-0-0 0-11-0 4-0-0

Scale = 1:16.5



4-0-0 4-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 0.02 240 197/144 1.15 TC 0.22 5-8 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.03 5-8 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 2 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 13 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=74(LC 16)

Max Uplift 4=-37(LC 16), 2=-25(LC 16)

Max Grav 4=134(LC 21), 2=276(LC 21), 5=69(LC 7)

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 Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-11-4 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
- 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 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624457 2524433 JD3 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:57 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

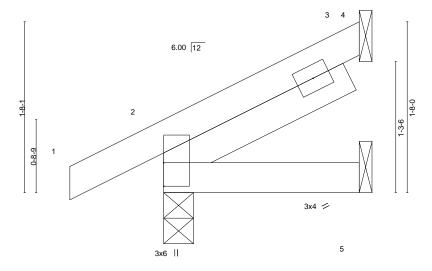
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-2bhWqrjAxPfpcqK9rctx2qtjkBaNUNziujZA2syJb1W

Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

1-10-15 0-11-0 1-10-15

Scale = 1:11.3



1-10-15

Plate Offsets (X,Y) [2:Edge,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 Rep Stress Incr YES	CSI. TC 0.06 BC 0.02 WB 0.00	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	0 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 8 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 2=0-3-8, 5=Mechanical, 3=Mechanical

Max Horz 2=46(LC 16)

Max Uplift 2=-27(LC 16), 3=-18(LC 16)

Max Grav 2=170(LC 21), 5=29(LC 7), 3=57(LC 21)

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 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) 2, 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624458 2524433 JM1 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:58 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-WnFu2BkoijogD_uLPJOAa1Qt2bvtDqDs6NljblyJb1V

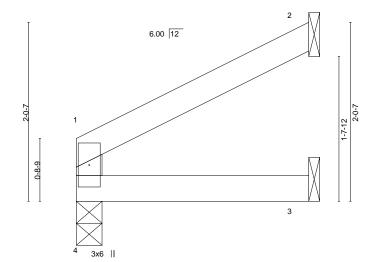
Structural wood sheathing directly applied or 2-7-11 oc purlins,

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

except end verticals.

2-7-11

Scale = 1:13.1



2-7-11

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 0.09 BC 0.06 WB 0.00	Vert(CT)	in -0.00 -0.00 -0.00	(loc) 3-4 3-4 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS.

4=0-3-8, 2=Mechanical, 3=Mechanical (size)

Max Horz 4=45(LC 16) Max Uplift 2=-27(LC 16)

Max Grav 4=111(LC 20), 2=80(LC 20), 3=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 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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 16,2020



| Diagonal Hip Girder | Diagonal Hip Girder

6-0-0

2-10-12

NAILED NAILED

5

3x4 =

3-1-4

3-1-4 6-0-0 3-1-4 2-10-12

2x4 ||

Plate Offsets (X,Y) [2:0-1-0,	0-2-12], [7:0-2-2,0-0-8], [7:0-0-0,0-2-12]						
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 NO	CSI. TC 0.27 BC 0.17 WB 0.05	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 0.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 23 lb	FT = 20%

LUMBER- BRACING-

1-3-9

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

2x4 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2-7: 2x6 SPF No.2

REACTIONS. (size) 7=0-4-9, 5=Mechanical

Max Horz 7=93(LC 31)

Max Uplift 7=-72(LC 12), 5=-38(LC 9) Max Grav 7=379(LC 2), 5=269(LC 17)

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

TOP CHORD 2-7=-326/79, 2-3=-307/24

WEBS 3-5=-262/43

NOTES-

WEBS

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 7, 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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, 2-4=-51, 5-7=-20

Concentrated Loads (lb)

Vert: 8=-12(B) 9=-24(F) 10=-6(B) 11=-9(F)



Scale = 1:19.3

November 16,2020



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

ANSITPIT 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 Summit/61 Woodside 143624460 2524433 JM3 Jack-Closed Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

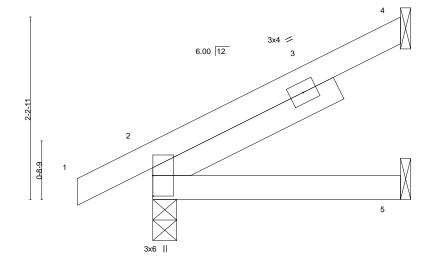
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-HKkwjwqqpAoYBCWut?Y2vjlEbpen5RB1ydE8tryJb1N

Structural wood sheathing directly applied or 3-0-3 oc purlins.

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

3-0-3 3-0-3 0-11-0

Scale = 1:14.0



			3-0-3 3-0-3			—			
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 0.11 BC 0.06 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 0.00	(loc) 5-8 5-8 2	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD SLIDER

Left 2x4 SPF No.2 2-6-0

REACTIONS. 4=Mechanical, 2=0-3-8, 5=Mechanical (size)

Max Horz 2=60(LC 16)

Max Uplift 4=-28(LC 16), 2=-26(LC 16) Max Grav 4=96(LC 21), 2=223(LC 21), 5=49(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 Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 2-11-7 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
- 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.



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Job Truss Truss Type Qty Summit/61 Woodside 143624461 2524433 JM4 JACK-OPEN Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

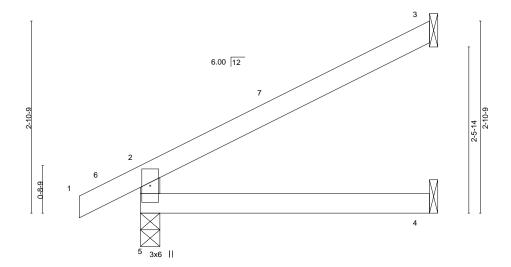
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:07 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-IWIIxGrSaUwPoM44Qi3HSxlM0DyaquRBBH_iPHyJb1M

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

4-4-0 0-11-0 4-4-0

Scale = 1:17.3



4-4-0

BRACING-

TOP CHORD

BOT CHORD

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 0.26 BC 0.15 WB 0.00	Vert(CT) -	in (loc) 0.02 4-5 -0.03 4-5 0.01 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	,				Weight: 12 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 5=90(LC 16)

Max Uplift 5=-29(LC 16), 3=-42(LC 16)

Max Grav 5=283(LC 21), 3=147(LC 21), 4=77(LC 7)

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

TOP CHORD 2-5=-251/148

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 4-3-4 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
- 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) 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.
- 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 16,2020



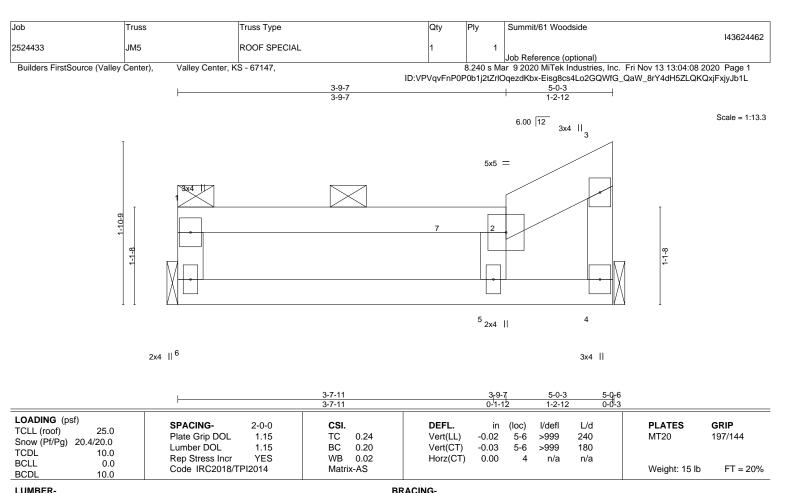
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MiTek's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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





TOP CHORD

BOT CHORD

2-0-0 oc purlins: 1-2.

Rigid ceiling directly applied.

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 2-3: 2x6 SPF No.2

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

REACTIONS.

(size) 6=Mechanical, 4=Mechanical

Max Horz 6=47(LC 13)

Max Uplift 6=-24(LC 12), 4=-21(LC 13) Max Grav 6=247(LC 34), 4=213(LC 2)

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 Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-10-7 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) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 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) 6, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

November 16,2020





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ANSI/TPI 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 Summit/61 Woodside 143624463 2524433 Flat JM6 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:09 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-ivQ2Mysi65A62gETY75lXMNl?1galoxUebTpTAyJb1K

3-1-15

2x4 || 4 2x4 ||

3

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

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

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 0.10 BC 0.06 WB 0.00	DEFL. in Vert(LL) -0.00 Vert(CT) -0.01 Horz(CT) -0.00	(loc) 3-4 3-4 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

4=Mechanical, 3=Mechanical (size) Max Horz 4=-59(LC 10) Max Uplift 4=-33(LC 10), 3=-33(LC 11) Max Grav 4=129(LC 2), 3=129(LC 2)

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) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:13.5

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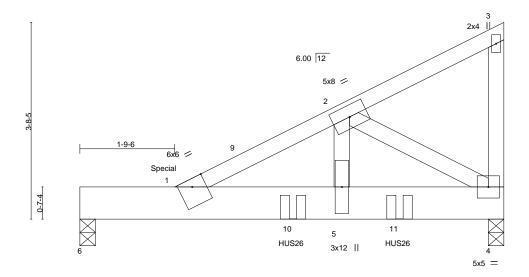
Job Truss Truss Type Qty Ply Summit/61 Woodside I43624464
2524433 JM7 ROOF SPECIAL GIRDER 1 2 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:09 2020 Page 1
ID:VPVqvFnP0P0b1j2tZrOqezdKbx-ivQ2Mysi65A62gETY75IXMNfx1WMIh?UebTpTAyJb1K

3-0-8

2-9-0

Scale = 1:21.6



4-11-0 3-0-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL 0.49 Vert(LL) 197/144 1.15 TC -0.07 5-7 >999 240 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.65 Vert(CT) -0.12 >766 180 5-7 TCDI 10.0 Rep Stress Incr NO WB 0.51 Horz(CT) 0.01 4 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 81 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 4=0-3-8, 6=0-3-8 Max Horz 6=110(LC 11)

Max Uplift 4=-254(LC 12), 6=-213(LC 12) Max Grav 4=2953(LC 2), 6=3009(LC 2)

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

TOP CHORD 1-2=-4614/391

BOT CHORD 1-5=-348/4137, 4-5=-348/4137 WEBS 2-5=-329/4146, 2-4=-4733/424

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=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
- 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 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) 4=254, 6=213.
- 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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-0 from the left end to 6-0-0 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1739 lb down and 162 lb up at 1-9-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 4-11-14 oc purlins,

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

except end verticals

November 16,2020

Continued on page 2



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Qty Ply Job Truss Truss Type Summit/61 Woodside 143624464 2524433 JM7 ROOF SPECIAL GIRDER

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:10 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-A5zQZHtKtPlzfqpf6rc_3ZwqhRsb18FdtFCM0cyJb1J

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 1-6=-81, 1-4=-20

Concentrated Loads (lb)

Vert: 1=-1370(B) 10=-1386(B) 11=-1386(B)



Job Truss Truss Type Qty Summit/61 Woodside 143624465 2524433 JM8 DIAGONAL HIP GIRDER Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:10 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-A5zQZHtKtPlzfqpf6rc_3ZwoHRpU1CTdtFCM0cyJb1J 1-3-9 4-6-4 4-3-12 Scale = 1:22.7 3x4-H 4.24 12 3x4 = NAILED 3 10 12 6 5 NAILED TJC37 TJC37 2x4 3x6 =NAILED 4x8 -11 8-10-0 4-6-4 Plate Offsets (X,Y)-- [7:0-4-5,0-2-0]

	· . •						_	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.58	DEFL. Vert(LL)	in (loc) -0.07 5-6	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT)	-0.12 5-6	>844	180		
BCLL 0.0	Rep Stress Incr NO	WB 0.24	Horz(CT)	0.01 5	n/a	n/a	M	FT 000
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 33 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2-7: 2x6 SPF No.2 (size) 7=0-4-9, 5=Mechanical

Max Horz 7=128(LC 31) Max Uplift 7=-97(LC 12), 5=-99(LC 12) Max Grav 7=578(LC 2), 5=692(LC 17)

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

TOP CHORD 2-7=-532/116, 2-3=-720/92 BOT CHORD 6-7=-111/626, 5-6=-111/626 WEBS 3-6=-4/270, 3-5=-643/101

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 7, 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) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 6-7-13 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 10) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 7-2-3 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg. to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) 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



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

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

except end verticals.

November 16,2020

Continued on page 2



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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/61 Woodside	1
					143624465	
2524433	JM8	DIAGONAL HIP GIRDER	2	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:11 2020 Page 2 $ID: VPVqvFnP0P0b1j2tZrlOqezdKbx-eHXpmduyejQqH_OrfY7DcnTz1q9jmfim6vyvY2yJb1I$

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-51, 5-7=-20 Concentrated Loads (lb)

Vert: 6=-9(B) 9=-12(F) 10=-6(F) 11=-170(F) 12=-210(B)



Job Truss Truss Type Qty Summit/61 Woodside 143624466 2524433 JM9 Jack-Closed Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:11 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

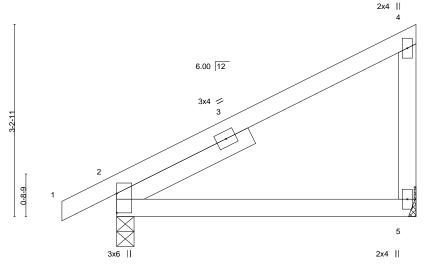
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-eHXpmduyejQqH_OrfY7DcnT1SqJ9miQm6vyvY2yJb1I

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

5-0-3 5-0-3 0-11-0

Scale = 1:19.3



BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [2:Edge,0-0-0]								
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 0.36 BC 0.24 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.04 5-8 -0.06 5-8 0.02 2	l/defl >999 >942 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 19 lb	FT = 20%

LUMBER-

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

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8

Max Horz 2=102(LC 15)

Max Uplift 5=-28(LC 13), 2=-44(LC 16) Max Grav 5=238(LC 21), 2=294(LC 21)

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 Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-10-7 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, 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624467 2524433 JM10 Jack-Closed Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-_zpGFXlRT1wXr8TYy1wP7Fzza?B6yHS?L12H7lyJb1U 6-4-0

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Scale = 1:22.6

6-4-0

4×4 6.00 12 0-8-9 1 3x4 ||

BRACING-TOP CHORD

BOT CHORD

0-11-0

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 0.42 BC 0.26 WB 0.00	Vert(LL) -0.04 4-5 >999 2 Vert(CT) -0.09 4-5 >818 1	/d PLATES GRIP 40 MT20 197/144 80 Va
BCDL 0.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 21 lb FT = 20%

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=129(LC 13)

Max Uplift 5=-51(LC 16), 4=-35(LC 13) Max Grav 5=353(LC 2), 4=292(LC 21)

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

TOP CHORD 2-5=-313/198

- 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 6-2-4 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
- 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, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624468 2524433 JM11 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:03:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-_zpGFXIRT1wXr8TYy1wP7Fz2M?C0yH5?L12H7lyJb1U 2-5-4 2-5-4 2-2-7 Scale = 1:18.0 6.00 12 2x4 | 5x5 = 1-9-14 4 3x4 = 3x4 LOADING (psf)

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defI

>999

>999

n/a

L/d

240

180

n/a

Structural wood sheathing directly applied, except end verticals, and

(loc)

4-5

4-5

2-0-0 oc purlins: 1-2.

4

Rigid ceiling directly applied.

-0.02

-0.04

-0.00

LUMBER-

TCLL (roof)

TCDI

BCLL

BCDL

Snow (Pf/Pg) 20.4/20.0

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

25.0

10.0

0.0

10.0

WEBS 2x4 SPF No.2

5=0-3-8, 4=Mechanical REACTIONS. (size) Max Horz 5=89(LC 13)

Max Uplift 5=-24(LC 12), 4=-33(LC 13)

Max Grav 5=205(LC 34), 4=198(LC 35)

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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) 0-1-12 to 2-5-4, Interior(1) 2-5-4 to 4-5-15 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.

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-AS

0.12

0.20

0.02

- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 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) 5, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



PLATES

Weight: 21 lb

MT20

GRIP

197/144

FT = 20%

November 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624469 2524433 JM13 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:00 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-SANeTtl3EK2OTH2kWkRefSVDfPbnhji9ahnqfByJb1T

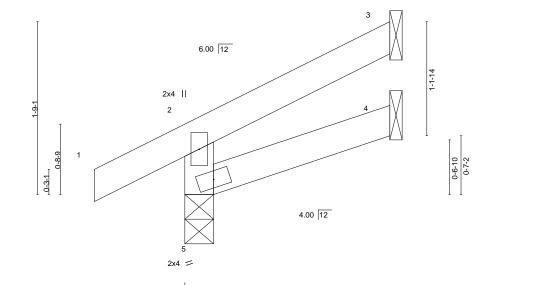
Structural wood sheathing directly applied or 2-0-15 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



Scale = 1:11.7



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 0.08 BC 0.04 WB 0.00	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00	(loc) 5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	(3)				Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

WEBS

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

2x4 SPF No.2

(size)

Max Horz 5=60(LC 16) Max Uplift 3=-18(LC 16), 5=-30(LC 16)

Max Grav 3=50(LC 21), 4=34(LC 7), 5=186(LC 21)

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

3=Mechanical, 4=Mechanical, 5=0-3-8

- 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) 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) 3, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



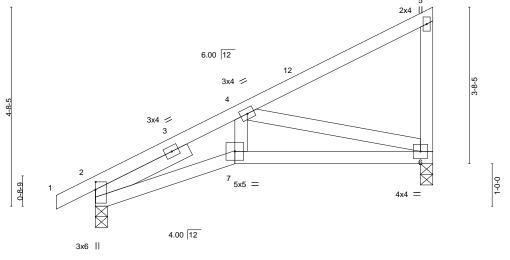
November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624470 2524433 JM14 Monopitch Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:01 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-xMx1gCmh?eAF4Rdw4SytCg2Lxot8Q7GlpLXNBdyJb1S -0-11-0 0-11-0 3-3-8 4-8-0

Scale = 1:27.2



[2:0-2-4 0-0-2]

Plate Offsets (X,Y) [2:0-2-4,0-0-2]								
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 0.30 BC 0.28 WB 0.24	Vert(LL) -0.03 (oc) I/defl L/d 6-7 >999 240 6-7 >999 180 6 n/a n/a	PLATES MT20	GRIP 197/144		
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 33 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 2=134(LC 13)

Max Uplift 6=-41(LC 13), 2=-50(LC 16) Max Grav 6=365(LC 21), 2=419(LC 2)

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

TOP CHORD 2-4=-736/300

2-7=-509/713, 6-7=-467/644 **BOT CHORD WEBS** 4-7=-125/272, 4-6=-664/444

- 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 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) Bearing at joint(s) 2 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) 6, 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624471 2524433 JM15 Half Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:02 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-PYVPuYnJmyl6ibC6e9T6ltbOQCA99dHS1?Gxk3yJb1R 6-2-0 7-11-8 0-11-0 3-3-8 2-10-8 1-9-8 Scale = 1:23.6 4x4 = 2x4 || 5 6 14 6.00 12 2x4 | 1 13 5x5 = 0-8-9 4.00 12 6x6 || 6-2-0 7-11-8 Plate Offsets (X,Y)-- [2:0-3-0,Edge], [5:0-2-0,Edge] LOADING (psf) DEFL. SPACING-2-0-0 CSI in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.83 Vert(LL) -0.24 8 >395 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.49 Vert(CT) -0.38 8 >244 180 TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.13 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 30 lb Matrix-AS BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SPF 1650F 1.5E *Except* TOP CHORD Structural wood sheathing directly applied, except end verticals, and 5-6: 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD

Rigid ceiling directly applied

2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

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

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

Max Horz 2=101(LC 13)

Max Uplift 7=-39(LC 13), 2=-52(LC 16)

Max Grav 7=348(LC 2), 2=494(LC 36)

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

TOP CHORD 2-4=-362/140 BOT CHORD 2-8=-186/252 **WEBS** 5-7=-315/212

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 6-2-0, Exterior(2E) 6-2-0 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
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 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 16,2020



a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624472 2524433 JM16 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:03 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-tl2n5uoxXFQzKlnJBt_LH57fmcT?u1VbGf0UGWyJb1Q 0-11-0 4-2-0 3-9-8

Scale = 1:18.9

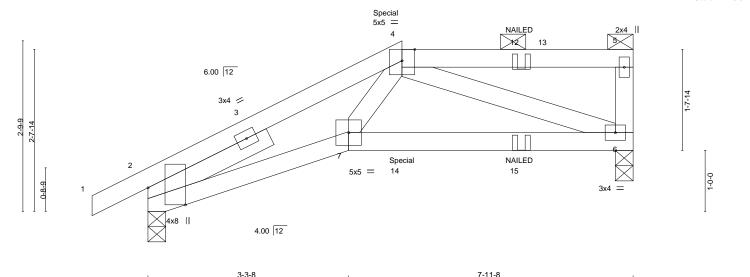


Plate Offsets (X,Y) [2:0-3-6,Edge]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.41 BC 0.64 WB 0.25 Matrix-MP	Vert(CT) -0.10 6-7 >928 180 Horz(CT) 0.03 6 n/a n/a	RIP 7/144 FT = 20%				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 30 lb				

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

Left 2x4 SPF No.2 2-2-15 SLIDER

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=66(LC 9)

Max Uplift 2=-79(LC 12), 6=-82(LC 9) Max Grav 2=616(LC 32), 6=575(LC 31)

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

TOP CHORD 2-4=-1288/158

2-7=-178/1162, 6-7=-133/822 **BOT CHORD WEBS** 4-7=-64/551, 4-6=-882/132

- 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; 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 258 lb down and 112 lb up at 4-2-0 on top chord, and 65 lb down and 33 lb up at 4-2-0 on bottom chord. The design/selection of such connection device(s) is
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Structural wood sheathing directly applied or 4-11-1 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

November 16,2020

CAARIGASE(S)geStandard

MARNING - 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

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ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					I43624472
2524433	JM16	Half Hip Girder	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:03 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-tl2n5uoxXFQzKlnJBt_LH57fmcT?u1VbGf0UGWyJb1Q

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-51, 4-5=-61, 7-8=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 4=-220(F) 12=-43(F) 14=-65(F) 15=-65(F)



Job Truss Truss Type Qty Summit/61 Woodside 143624473 2524433 JM17 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:04 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Lxc9IEoZIZYqxvMVlaVaqIgmO0sAdXHkVJI2oyyJb1P 1-3-9 4-6-6 1-2-14 Scale = 1:16.5 5 2x4 || 4.24 12 NAILED NAILED 0-6-1 12 3x4 = 2-4-13 5x5 = 0-8-9 NAILED NAILED 4x8 2.83 12 5-9-3 4-6-6 Plate Offsets (X,Y)-- [2:0-1-12,0-3-4] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.08 7-10 >872 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.46 Vert(CT) -0.13 7-10 >508 180 TCDL 10.0 Rep Stress Incr NO WB 0.03 Horz(CT) 0.03 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MP Weight: 19 lb BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 5=Mechanical, 2=0-3-7, 6=Mechanical

Max Horz 2=75(LC 12)

Max Uplift 5=-37(LC 12), 2=-49(LC 12)

Max Grav 5=252(LC 17), 2=357(LC 2), 6=23(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); cantilever left and right exposed; end vertical left and right exposed; Lumber 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) Bearing at joint(s) 2 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, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "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: 1-5=-51, 7-8=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 13=0(F=0, B=0)



Structural wood sheathing directly applied or 5-9-3 oc purlins.

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

November 16,2020



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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/61 Woodside 143624474 2524433 JM19 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:05 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-p7AXWapB2tghZ3xhJl0pMWD1CQGBM_jujzVbKOyJb1O 4-2-0 0-11-0 3-3-8 0-10-8

> Scale = 1:16.9 2x4 || 6.00 12 1-9-9 2x4 || 2 5x5 = 1-0-0 0-3-1 4.00 12 2x4

	I	3-3-8		0-10)-8			
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 0.22 BC 0.15 WB 0.01 Matrix-AS	Vert(CT)	in (loc) -0.02 6-7 -0.03 6-7 0.01 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 20%

3-3-8

LUMBER-

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

WEBS 2x4 SPF No.2 BRACING-

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

Rigid ceiling directly applied.

4-2-0

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=89(LC 16)

Max Uplift 4=-15(LC 16), 5=-18(LC 16), 7=-28(LC 16) Max Grav 4=103(LC 21), 5=85(LC 21), 7=280(LC 21)

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 Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-1-4 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
- 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) 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 100 lb uplift at joint(s) 4, 5, 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.



November 16,2020





Job Truss Truss Type Qty Summit/61 Woodside 143624475 JP1 2524433 Jack-Open Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:12 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-6U5B_zvaP0Yhv7z1DGfS9_?FCEgaV9gwKZhT4UyJb1H 3-6-11 1-3-9 3-6-11 Scale = 1:12.7 NAILED 10 4.24 12 0-8-9 NAILED 3x6 || 3-6-11 Plate Offsets (X,Y)-- [2:0-2-8,0-0-1] LOADING (psf) SPACING-DEFL. 2-0-0 in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.01 5-8 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.10 Vert(CT) -0.01 5-8 >999 180 **TCDL** 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MP Weight: 12 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 4=Mechanical, 2=0-4-3, 5=Mechanical

Max Horz 2=54(LC 12)

Max Uplift 4=-24(LC 12), 2=-48(LC 12)

Max Grav 4=105(LC 17), 2=280(LC 17), 5=59(LC 7)

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); cantilever left and right exposed; end vertical left and right exposed; Lumber 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-4=-51, 5-6=-20 Concentrated Loads (lb) Vert: 11=0(B)



Structural wood sheathing directly applied or 3-6-11 oc purlins.

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

November 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624476 JP2 2524433 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:13 2020 Page 1 Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-agfZBJvDAKgYXHYEnzAhhCYROe1?Ecw3ZDR0cxyJb1G

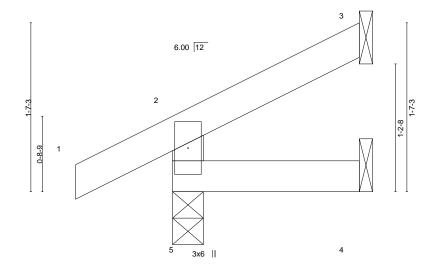
Structural wood sheathing directly applied or 1-9-3 oc purlins,

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

except end verticals.

1-9-3 0-11-0 1-9-3

Scale = 1:10.9



1-9-3 1-9-3

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 0.08 BC 0.03 WB 0.00	DEFL. ii Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00	5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,				Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=56(LC 16)

Max Uplift 5=-32(LC 16), 3=-14(LC 16)

Max Grav 5=175(LC 21), 3=38(LC 21), 4=28(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 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624477 2524433 LG1 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:14 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-2sDxPfwrxepP8R7QLhhwEP5dO2N5z3SDosAa9NyJb1F 25-2-1

17-1-14

Scale = 1:41.1

4-0-1

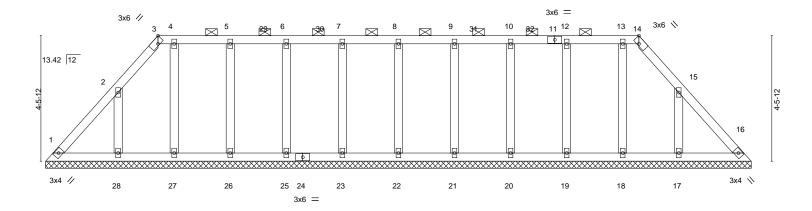


Plate Offsets (X,Y)--[3:0-2-10,Edge], [14:0-2-10,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.06 Vert(LL) 999 MT20 197/144 n/a n/a Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 16 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 106 lb 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, except

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-14. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 25-2-1.

4-0-1

Max Horz 1=-107(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 22, 23, 25, 26, 28, 21, 20, 19, 17

All reactions 250 lb or less at joint(s) 1, 16, 22, 23, 25, 26, 27, 21, 20, 19, 18, 17 except Max Grav

28=253(LC 23)

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=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 4-0-1, Exterior(2R) 4-0-1 to 8-3-0, Interior(1) 8-3-0 to 21-1-15, Exterior(2E) 21-1-15 to 24-10-2 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 22, 23, 25, 26, 28, 21, 20, 19, 17.
- 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.



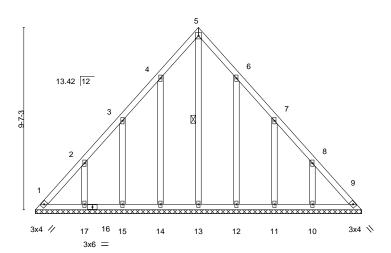
November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624478 2524433 LG2 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:19 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Pq0qSM_zlARiFC?O7EH5xSoTt34AeH2yy8uKqayJb1A

8-7-0

Scale = 1:60.6 4x4 =



17-2-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d (loc) 999

TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 1.15 TC 0.08 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.00 9 n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S BCDL 10.0

PLATES

MT20

Weight: 89 lb FT = 20%

GRIP

197/144

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

999

n/a

1 Row at midpt 5-13

REACTIONS.

All bearings 17-2-1.

Max Horz 1=-235(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 12, 11 except 17=-102(LC 14), 10=-102(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 12, 11 except 17=256(LC 23), 10=256(LC 24)

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=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 8-7-0, Exterior(2R) 8-7-0 to 11-7-0, Interior(1) 11-7-0 to 16-10-2 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) 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) 1, 9, 14, 15, 12, 11 except (jt=lb) 17=102, 10=102.
- 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 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624479 2524433 LG3 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:20 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-t0aCfi?cWUZZsMaahxoKTgKcjTQTNmD5AoduM1yJb19 4-1-4 Scale = 1:26.1 2x4 || 13.42 12 2x4 || 5 2x4 \ 2x4 П 2x4 || 4-1-4

LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) L/d **PLATES** GRIP I/defl TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 999 MT20 197/144 1.15 TC 0.14 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.04 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 18 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 5=4-1-4, 3=4-1-4, 4=4-1-4

Max Horz 5=-142(LC 10)

Max Uplift 5=-49(LC 10), 3=-32(LC 13), 4=-94(LC 14) Max Grav 5=78(LC 24), 3=121(LC 23), 4=235(LC 24)

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

TOP CHORD 2-3=-260/267

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) 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-1-4 oc purlins,

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

except end verticals.

November 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624480 2524433 LG4 GABLE Job Reference (optional)

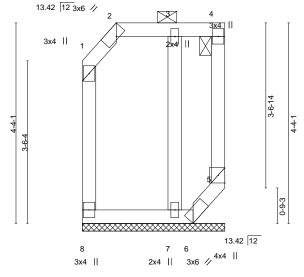
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:21 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-LC8bt20EHnhQUW9mFfJZ0ttmlsjN6DMFPSNRvTyJb18

0-8-13 0-8-13 3-1-0

Scale = 1:24.9



2-4-12	3-1-0
2-4-12	0-8-4

Plate Offsets (X,Y) [2:0-2-10	,Edge]							
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 0.25 BC 0.25 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	11/a	c) l/defl - n/a - n/a 5 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 20 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-1-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 2-4. Rigid ceiling directly applied or 8-8-3 oc bracing.

REACTIONS. All bearings 3-1-0.

Max Horz 8=123(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8 except 5=-291(LC 11), 6=-316(LC 12), 7=-137(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 8, 7 except 5=271(LC 12), 6=338(LC 11)

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

BOT CHORD 5-6=-418/432

- 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) 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.
- Provide adequate drainage to prevent water ponding.
- 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) 8 except (jt=lb) 5=291, 6=316, 7=137.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624481 2524433 LG6 GABLE Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

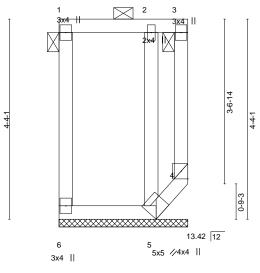
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:21 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-LC8bt20EHnhQUW9mFfJZ0ttmcsiE6D0FPSNRvTyJb18

2-0-0 oc purlins: 1-3, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

2-9-8

Scale = 1:25.0



2-1-4	2-9-8
2-1-4	0-8-4

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 0.26 BC 0.26 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l- n/a n/a 0.00	loc) - - 4	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R						Weight: 19 lb	FT = 20%

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

REACTIONS. (size) 6=2-9-8, 4=2-9-8, 5=2-9-8

Max Horz 6=-126(LC 12)

Max Uplift 6=-76(LC 10), 4=-248(LC 13), 5=-190(LC 10) Max Grav 6=118(LC 24), 4=241(LC 10), 5=265(LC 24)

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

BOT CHORD 4-5=-405/408

- 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=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) 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) 6 except (jt=lb) 4=248. 5=190.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624482 2524433 LG7 GABLE Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

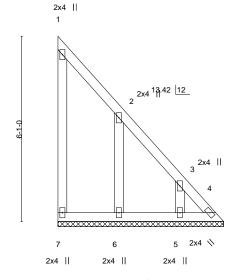
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:22 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-pPiz4O0s25pG6gkypMqoZ5Qw3G6lrgTOe66?RvyJb17

Structural wood sheathing directly applied or 5-5-4 oc purlins,

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

except end verticals.

Scale = 1:37.8



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 Rep Stress Incr YES	CSI. TC 0.27 BC 0.05 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	- (- /					Weight: 26 lb	FT = 20%

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

REACTIONS. All bearings 5-5-4.

Max Horz 7=-194(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 4, 6, 5 Max Grav All reactions 250 lb or less at joint(s) 7, 4, 6, 5

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

TOP CHORD 2-3=-291/296, 3-4=-391/391

BOT CHORD 6-7=-265/274, 5-6=-265/274, 4-5=-265/274

- 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) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 5-1-6 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=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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 6, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624483 2524433 LG8 GABLE Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:23 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-HbGLlk1UpPx7jqJ9M3L15ly33gQCa3aXsmsYzMyJb16

1-11-12 1-11-12 10-8-0 8-8-4

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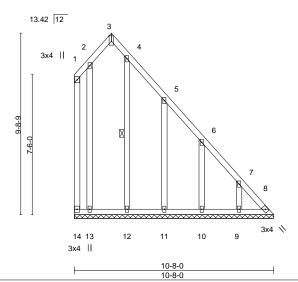


Plate Offsets (X,Y) [3:Edge,0	0-1-8]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.39 BC 0.16 WB 0.31	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 70 lb	FT = 20%

LUMBER-**BRACING-**

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

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

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing **WEBS** 4-12 1 Row at midpt

REACTIONS. All bearings 10-8-0.

Max Horz 14=-307(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13, 10, 9 except 14=-115(LC 14), 8=-172(LC 13), 12=-147(LC 12),

11=-130(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 11, 10, 9 except 12=257(LC 24)

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

TOP CHORD 1-14=-323/349, 1-2=-315/347, 5-6=-254/245, 6-7=-353/355, 7-8=-458/453

BOT CHORD 13-14=-315/326, 12-13=-315/326, 11-12=-315/326, 10-11=-315/326, 9-10=-315/326,

8-9=-315/326 **WEBS** 2-13=-277/208

OTHERS

- 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) 0-1-12 to 1-11-12, Exterior(2R) 1-11-12 to 4-9-12, Interior(1) 4-9-12 to 10-4-2 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) 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) 13, 10, 9 except (jt=lb) 14=115, 8=172, 12=147, 11=130.
- 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 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624484 2524433 LG9 GABLE

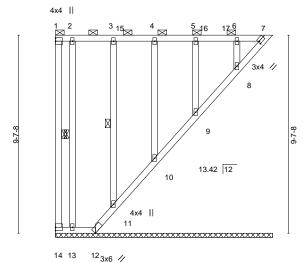
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:24 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-mnqjV426ai3_L_uLwnsGeWVDU4kaJZHh5Qb5VoyJb15

10-6-10

Scale = 1:56.0



1-11-4 10-6-10

Plate Offsets (X,Y) [7:	:0-0-10,0-1-8]
-------------------------	----------------

1 1010 0 10010 (71) 1110 0 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
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 0.47 BC 0.22 WB 0.09	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.01	1 -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	(,	-			\\\ain\bar{\ain}	FT = 20%
BCDL 10.0	Code IRC2018/1912014	Matrix-5					Weight: 71 lb	F1 = 20%

WEBS

LUMBER-TOP CHORD 2x4 SPF No.2

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

2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 1-14, 2-13, 3-11

REACTIONS. All bearings 10-6-10.

Max Horz 14=-235(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14, 11, 10, 9, 8 except 7=-121(LC 14), 12=-151(LC 12),

1-11-4

13=-115(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 14, 7, 12, 13, 11, 10, 9, 8

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

BOT CHORD 11-12=-254/242

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 7-2-11, Corner(3) 7-2-11 to 10-2-11 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, \ \bar{L}u=50-0-0; \ Min. \ flat \ roof \ snow \ load \ governs. \ Rain \ Roots \$ 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) 14, 11, 10, 9, 8 except (jt=lb) 7=121, 12=151, 13=115.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 11, 10, 9, 8.
- 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624485 2524433 LG10 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:15 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-W2nJc?xTixxGmbicuOC9mcdn?SjHiWxM1Ww7hpyJb1E

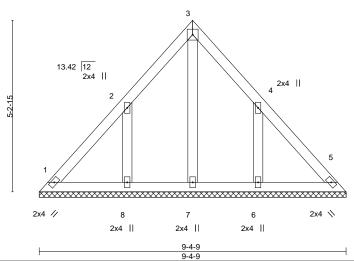
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

4-8-4 4-8-4

4x4 =

Scale = 1:35.2



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 n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 37 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SPF No.2

> All bearings 9-4-9. Max Horz 1=-124(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-109(LC 14), 6=-109(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=276(LC 23), 6=275(LC 24)

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=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 4-8-4, Exterior(2R) 4-8-4 to 7-8-4, Interior(1) 7-8-4 to 9-0-10 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 except (jt=lb) 8=109, 6=109.
- 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 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624486 2524433 LG11 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:16 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-?FLiqLy5TF37OlGpS5jOJqAy9r3QRx9VFAfgDGyJb1D

17-5-6 9-8-13 7-8-9

Scale = 1:61.4

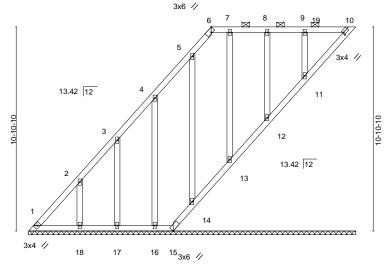


Plate Offsets (X,Y)	[6:0-2-10,Edge], [10:0-0-10,0-1-8]
---------------------	------------------------------------

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 0.11 BC 0.04 WB 0.16	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	, ,					Weight: 91 lb	FT = 20%

LUMBER-**BRACING-**

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

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

2-0-0 oc purlins (6-0-0 max.): 6-10.

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

REACTIONS. All bearings 17-5-6.

(lb) -Max Horz 1=293(LC 14)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 15, 14, 16, 17, 13, 12, 11 except 18=-108(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 10, 15, 14, 16, 17, 13, 12, 11 except 18=267(LC 23)

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

TOP CHORD 1-2=-379/345

NOTES-

OTHERS

- 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) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-8-13, Exterior(2R) 9-8-13 to 12-8-11, Interior(1) 12-8-11 to 17-1-7 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 15, 14, 16, 17, 13, 12, 11 except (it=lb) 18=108
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 14, 13, 12, 11.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16,2020



MARNING - 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's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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 Summit/61 Woodside 143624487 2524433 LG12 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:17 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-TRv41hyjEZB_?vr?0pEds1j7EFPdAPTfUqPEmiyJb1C 6-0-9 Scale = 1:37.7 3x6 // 5 夊 \boxtimes \boxtimes

3x4 13.42 12 13.42 12 10 3x4 / 13 11 3x6 /

7-5-0 13-5-9

Plate Offsets (X, Y) [4:0-2-10	,Eagej, [8:0-0-10,0-1-8]								
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 0.09 BC 0.05 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 60 lb	GRIP 197/144 FT = 20%

LUMBER-**BRACING-**

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

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

2-0-0 oc purlins (6-0-0 max.): 4-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 13-5-9. (lb) -Max Horz 1=179(LC 14)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 11, 12, 13, 10, 9 except 14=-111(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11, 12, 13, 10, 9 except 14=271(LC 23)

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

NOTES-

OTHERS

- 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) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-0-9, Exterior(2R) 6-0-9 to 9-0-9, Interior(1) 9-0-9 to 13-1-11 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) 1, 8, 11, 12, 13,
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 10, 9.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16,2020



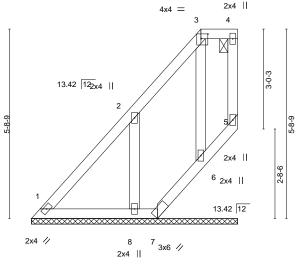
Job Truss Truss Type Qty Summit/61 Woodside 143624488 2524433 GABLE LG13 Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:18 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-xdSSE1zL?sJrd3QBaWlsOFFHAfklvsNojU8nl8yJb1B

6-2-9 5-1-5

Scale = 1:34.7



3-9-10

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

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 0.14 BC 0.05 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (I n/a n/a 0.00	(loc) - - 5	I/defl n/a n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 6-7.

REACTIONS. All bearings 6-2-9.

Max Horz 1=151(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7, 6 except 8=-127(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6 except 8=319(LC 23)

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

TOP CHORD 1-2=-288/293 WEBS 2-8=-294/217

- 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) 0-3-15 to 3-1-5, Interior(1) 3-1-5 to 5-1-5, Exterior(2E) 5-1-5 to 6-0-13 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, \ \bar{L}u=50-0-0; \ Min. \ flat \ roof \ snow \ load \ governs. \ Rain \ Roots \$ 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) 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, 7, 6 except (it=lb) 8=127.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16,2020







Job Truss Truss Type Qty Summit/61 Woodside 143624489 2524433 LG15 Lay-In Gable Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:18 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-xdSSE1zL?sJrd3QBaWlsOFFJlfkFvs1ojU8nl8yJb1B 1-10-4 1-10-4 4x4 = Scale = 1:13.2 13.42 12 3 0-0-4 0-0-4 4 2x4 // 2x4 || 2x4 📏 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defI TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 999 MT20 197/144 1.15 TC 0.04 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.02 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 11 lb FT = 20% BCDL 10.0 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SPF No.2

> 1=3-8-1, 3=3-8-1, 4=3-8-1 (size) Max Horz 1=-44(LC 12) Max Uplift 1=-16(LC 14), 3=-16(LC 14) Max Grav 1=86(LC 2), 3=86(LC 2), 4=104(LC 2)

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=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
- 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, 3.
- 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.



Structural wood sheathing directly applied or 3-8-9 oc purlins.

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

November 16,2020





Job Truss Truss Type Qty Summit/61 Woodside 143624490 2524433 M1 ROOF SPECIAL GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:28 2020 Page 1

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

Structural wood sheathing directly applied, except end verticals, and

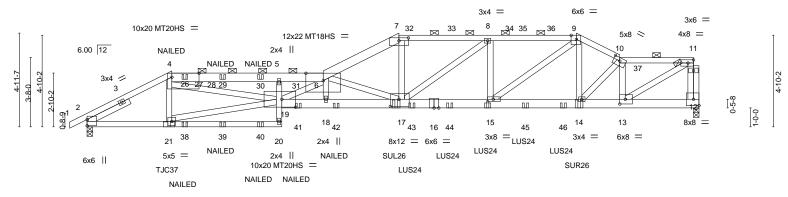
2-0-0 oc purlins (3-8-11 max.): 4-6, 7-9, 10-11.

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

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-eZ3ELR5dexZQqbB69dxCoMgnFhwlFABH02ZJeZyJb11 21-3-12 25-10-4 28-1-12 32-4-0 4-5-12 2-10-14 2-10-14 2-2-4 4-0-0 4-10-0 4-6-8 2-3-8 4-2-4

Scale = 1:60.9





4-5-12	7-4-10	10-3-8 12	-5-12 ·	16-5-12	21-3-12	1	25-1	0-4	28-1-12	32-4-0	
4-5-12	2-10-14	2-10-14 2	-2-4	4-0-0	4-10-0	- 1	4-6	8-8	2-3-8	4-2-4	
Plate Offsets (X,Y) [4:1-5-4,0	0-2-8], [6:0-11-0,0-4-12]	, [7:0-6-0,0-1-1	3], [9:0-3-5,E	dge], [10:0-4-	0,0-2-0], [13:0-3-8	3,0-3-0]	, [15:0-3	-8,0-1-8],	[17:0-5-8,0-	4-8], [19:0-8-12,0-5-0]	
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/1	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matri	1.00 1.00 0.93 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.66 -1.11 0.22	(loc) 18 18 12	l/defl >578 >346 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 331 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

4-6: 2x6 SPF 2100F 1.8E, 6-7: 2x6 SPF No.2

BOT CHORD 2x6 SPF 2100F 1.8E *Except*

2-20: 2x4 SPF 1650F 1.5E, 12-16: 2x6 SPF No.2 2x4 SPF No.2 *Except*

WEBS 5-20,19-21,4-19: 2x4 SPF 1650F 1.5E

OTHERS 2x4 SPF No.2

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

REACTIONS. (size) 12=0-3-8, 2=0-3-8 Max Horz 2=115(LC 72)

Max Uplift 12=-454(LC 12), 2=-418(LC 12)

Max Grav 12=3462(LC 41), 2=2923(LC 2)

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

TOP CHORD 2-4=-5250/722, 4-5=-15675/2194, 5-6=-16225/2265, 6-7=-9506/1343, 7-8=-8661/1244,

8-9=-7871/1114, 9-10=-6323/899, 10-11=-5065/706, 11-12=-3273/448

BOT CHORD 2-21=-623/4608, 20-21=-110/828, 18-19=-2383/17192, 17-18=-2371/17119,

15-17=-1028/7868, 14-15=-723/5605, 13-14=-682/5257

WEBS 5-19=-699/150, 4-21=-516/144, 19-21=-530/3871, 4-19=-1584/11394, 6-19=-1241/173,

6-18=-715/109, 6-17=-9110/1304, 7-17=-525/3948, 8-17=-163/1132, 8-15=-1085/184, 9-15=-385/2859, 9-14=-123/962, 10-14=-126/639, 10-13=-3247/471, 11-13=-765/5692

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 2 rows staggered at 0-2-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=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=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.
- 6) Unbalanced snow loads have been considered for this design.
- 7) 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.

(8) r r r v i de carde a que te drainage to prevent water ponding



November 16,2020



👠 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 Design Valid to Use Only with New Controlled S. This costign is based only upon parameters shown, and is for an individual druining Component, not a fundamental property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside	
						143624490
2524433	M1	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:28 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-eZ3ELR5dexZQqbB69dxCoMgnFhwlFABH02ZJeZyJb11

- 9) All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb) 12=454, 2=418.

 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 4-4-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 15) Use Simpson Strong-Tie SUL26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 16-4-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 17-2-0 from the left end to 25-2-0 to connect truss(es) to front face of bottom chord.
- 17) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 26-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-51, 4-6=-61, 6-7=-51, 7-9=-61, 9-10=-51, 10-11=-61, 20-22=-20, 12-19=-20

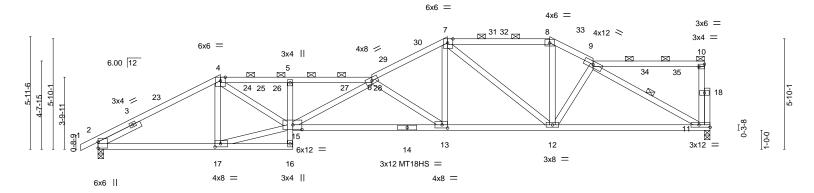
Concentrated Loads (lb)

Vert: 21=-241(F) 17=-664(F) 15=-272(F) 14=-664(F) 26=-88(F) 29=-86(F) 30=-86(F) 38=-31(F) 39=-31(F) 40=-31(F) 41=-178(F) 42=-96(F) 43=-272(F) 44=-272(F) 45=-272(F) 46=-272(F)



32-4-0 14-5-10 18-5-10 32-0-8 0-9-0 6-5-10 10-3-8





6-5-1 6-5-1		10-3-8 3-9-14	14-5-10 4-2-2	18-5-10 4-0-0)	23-10-6 5-4-12	+	31-3-8 7-5-2	32-4-0 1-0-8	
Plate Offsets (X,Y) [7:0-3-5,Edg	ge], [10:Edge,0-1	-8], [11:Edge,0-1-	-8], [13:0-3-8,0-2	-0], [15:0-5-12	2,0-3-0], [17:0-3	-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- Plate Grip DO Lumber DOL Rep Stress II Code IRC20	. 1.15 ncr YES	BC	0.66 0.84 0.88 AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.31 13-15 -0.65 13-15 0.18 11	l/defl >999 >592 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 141 lb	GRIP 197/144 197/144 FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD

2x4 SPF No.2 *Except* **BOT CHORD** 2-0-0 oc purlins (2-6-4 max.): 4-6, 7-8, 9-10.

14-15,11-14: 2x4 SPF 1650F 1.5E **BOT CHORD** Rigid ceiling directly applied. 2x4 SPF No.2 **WEBS** 1 Row at midpt

WEBS OTHERS 2x4 SPF No.2

Left 2x4 SPF No.2 2-6-0 **SLIDER**

REACTIONS. (size) 2=0-3-8. 11=0-3-8 Max Horz 2=153(LC 15)

Max Uplift 2=-143(LC 16), 11=-119(LC 16)

Max Grav 2=1507(LC 2), 11=1446(LC 45)

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

TOP CHORD 2-4=-2398/337, 4-5=-3937/566, 5-6=-4025/575, 6-7=-2902/427, 7-8=-1935/317,

8-9=-2228/339, 10-11=-268/61

BOT CHORD $2-17 = -419/2083, \, 5-15 = -525/95, \, 13-15 = -751/4416, \, 12-13 = -429/2501, \, 11-12 = -348/2033$ 4-17=-462/136, 15-17=-378/1985, 4-15=-290/2290, 6-15=-457/93, 6-13=-2248/381, WFBS

7-13=-154/1394, 7-12=-814/134, 8-12=-68/720, 9-11=-2259/367

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital action for the bear considered in 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 6-5-10, Exterior(2R) 6-5-10 to 9-5-10, Interior(1) 9-5-10 to 18-5-10, Exterior(2R) 18-5-10 to 21-5-10, Interior(1) 21-5-10 to 23-10-6, Exterior(2E) 23-10-6 to 26-1-14, Interior(1) 26-1-14 to 31-10-12 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 11=119.
- 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 Continuetrockphg@plied directly to the bottom chord



Structural wood sheathing directly applied, except end verticals, and

November 16,2020

MARNING - 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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ANSI/TPI 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/61 Woodside
					l43624491
2524433	M2	Roof Special	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:30 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-axB_m77tAYq83vLVH2zhtnlC3VeDj5QZTM2QjSyJb1?

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

Job Truss Truss Type Qty Summit/61 Woodside 143624492 2524433 МЗ Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:33 2020 Page 1

6-2-4

20-5-12

4-0-0

21-10-4 24-1-12

2-3-8

1-4-8

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-?Ws7O99mSTCjwM44yAXOVPNilig6wSY0AKH4JmyJb0y

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-4-13 max.): 5-7, 8-9, 10-12.

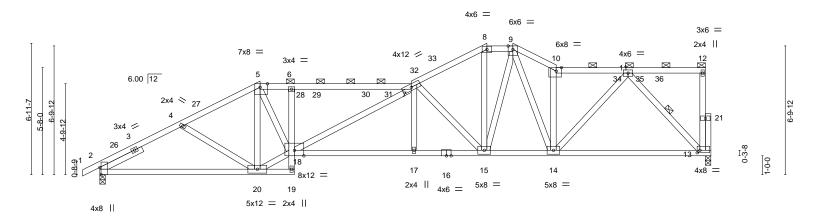
Rigid ceiling directly applied.

1 Row at midpt

3-9-10

32-4-0 4-4-10

Scale = 1:61.0



	8-5-12 8-5-12	1-9-12	16-5-12 6-2-4	20-5-12 4-0-0	21-10-4 24-1-12 1-4-8 2-3-8	+		-4-0 -0-1
Plate Offsets (X,Y) [2:0-4-10),Edge], [5:0-4-10,Edge], [10	0:0-3-6,Edge],	[13:0-1-12,0-1-8]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.76 BC 0.83 WB 0.85 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)		l/defl L/d >999 240 >902 180 n/a n/a	PLATES MT20 Weight: 162	GRIP 197/144 P. Ib FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=188(LC 15)

4-4-10

4-1-2

1-9-12

Max Uplift 2=-143(LC 16), 13=-120(LC 16) Max Grav 2=1507(LC 2), 13=1431(LC 2)

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

TOP CHORD 2-4=-2381/327, 4-5=-2254/313, 5-6=-2838/426, 6-7=-2906/438, 7-8=-2253/334,

8-9=-1932/324, 9-10=-2208/340, 10-11=-1984/285 2-20=-473/2063, 6-18=-548/117, 17-18=-559/3266, 15-17=-557/3271, 14-15=-327/1800,

13-14=-225/1183 **WEBS**

5-20=-918/225, 18-20=-395/2165, 5-18=-304/1923, 7-18=-421/29, 7-15=-1799/267, 8-15=-93/798, 9-15=-125/587, 9-14=-59/448, 10-14=-1127/200, 11-14=-157/1193,

11-13=-1679/286

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) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 8-5-12, Exterior(2R) 8-5-12 to 11-5-12, Interior(1) 11-5-12 to 20-5-12, Exterior(2E) 20-5-12 to 24-1-12, Interior(1) 24-1-12 to 31-10-12 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.
- 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) except (jt=lb) 2=143, 13=120.
- 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 Continuetrockpagesplied directly to the bottom chord



November 16,2020



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ANSI/TPI 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/61 Woodside
					143624492
2524433	M3	Roof Special	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:34 2020 Page 2 $ID: VPVqvFnP0P0b1j2tZrlOqezdKbx-TiQVbVAODnKZYWfGWt2d2dwtV60Lfvo9O_0drDyJb0x$

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

Job Truss Truss Type Qty Summit/61 Woodside 143624493 2524433 M4 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:36 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-8-4

0-11-12

8-0-0

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-P5YF0ABelOaHnqofdl4572?E4vj07oTSslVkw5yJb0v 21-2-0 22-1-12 32-4-0

5-2-14

Structural wood sheathing directly applied, except end verticals, and

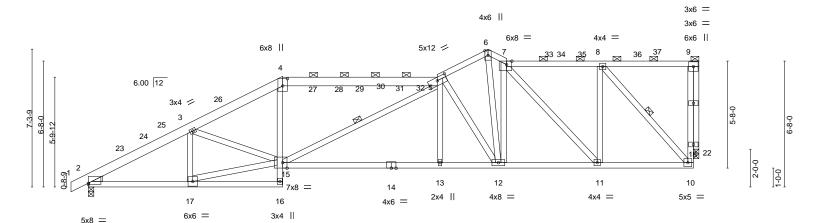
2-0-0 oc purlins (3-9-5 max.): 4-5, 7-9.

Rigid ceiling directly applied

1 Row at midpt

4-11-6

Scale = 1:61.0



	5-4-10	10-3-8	1	18-5	-12	22-1-12		2	27-1-2	1	32-4-0	
	5-4-10	4-10-14	1	8-2	-4	3-8-0	-	4	I-11-6	1	5-2-14	
Plate Offsets (>	K,Y) [2:0-0-0,0	-0-11], [4:0-4-9,0-3-0], [5:0-	6-0,0-2-0], [7:0-3-6,Edg	e], [15:0-2-12,E	Edge]						
LOADING (psf TCLL (roof) Snow (Pf/Pg) TCDL	25.0 20.4/20.0 10.0	Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.62 0.75 0.91	DEFL. Vert(LL) Vert(CT) Horz(CT)		13-15 13-15	l/defl >999 >909 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Code IRC2018/TPI2	014	Matri	x-AS						Weight: 177	lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-4,4-5: 2x6 SPF No.2 2x4 SPF No.2

5-4-10

5-1-2

BOT CHORD WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 22=0-3-8

Max Horz 2=168(LC 16)

Max Uplift 2=-129(LC 16), 22=-132(LC 16) Max Grav 2=1513(LC 2), 22=1467(LC 43)

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

TOP CHORD 2-3=-2505/276, 3-4=-2647/364, 4-5=-2365/369, 5-6=-1913/273, 6-7=-2068/314,

7-8=-1210/160, 10-18=-151/1287, 9-18=-151/1287

BOT CHORD 2-17=-414/2125, 4-15=-6/574, 13-15=-389/2527, 12-13=-387/2531, 11-12=-284/1844, 10-11=-173/1207

3-17=-375/128, 15-17=-377/2075, 3-15=-10/407, 5-15=-285/47, 5-13=0/287,

5-12=-1519/224, 6-12=-230/1783, 7-12=-530/81, 7-11=-966/164, 8-11=-69/815,

8-10=-1654/221, 9-22=-1471/186

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) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 10-3-8, Exterior(2R) 10-3-8 to 13-3-8, Interior(1) 13-3-8 to 21-2-0, Exterior(2E) 21-2-0 to 22-1-12, Interior(1) 22-1-12 to 31-10-12 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) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

Confinued an above 2



November 16,2020



Design valid for use only with MiTek's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI 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/61 Woodside
					143624493
2524433	M4	Roof Special	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:36 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-P5YF0ABelOaHnqofdl4572?E4vj07oTSslVkw5yJb0v

- 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.

Job Truss Truss Type Qty Summit/61 Woodside 143624494 2524433 M5 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:38 2020 Page 1

8-0-0

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-LUg0RsDuH0q?07y1lj6ZCT4aTjL2bhslJb_r__yJb0t

Structural wood sheathing directly applied, except end verticals, and

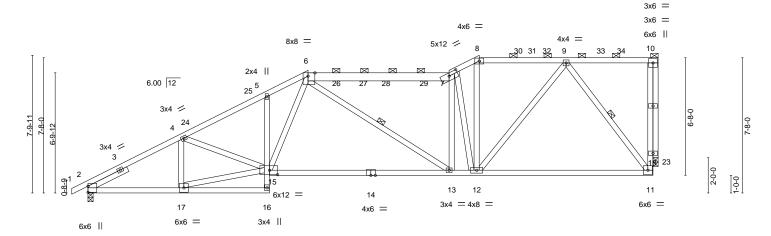
2-0-0 oc purlins (3-11-4 max.): 6-7, 8-10.

Rigid ceiling directly applied.

1 Row at midpt

22-2-4 27-1-6 32-4-0 1-8-8 4-11-2 5-2-10

Scale = 1:65.3



	3-8 5-0-0) 2-2-4	4 8-0-0	1-	8-8 4-1	1-2	5-2-10		
Plate Offsets (X,Y) [6:0-4-10),Edge], [7:0-6-0,0-2-0], [15:0-5-8,0-3-0]							
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 Code IRC2018/TI	2-0-0 1.15 1.15 YES	CSI. TC 0.63 BC 0.91 WB 0.91 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 13-15 -0.67 13-15 0.08 23	l/defl L/d >999 240 >578 180 n/a n/a		PLATES MT20 Weight: 173 lb	GRIP 197/144 FT = 20%
BCDL 10.0	2000 11(02010/11	12011	Width 710					Troigin. 170 lb	1 1 - 2070

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

6-7: 2x6 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 23=0-3-8

Max Horz 2=193(LC 16)

Max Uplift 2=-123(LC 16), 23=-138(LC 16)

Max Grav 2=1513(LC 2), 23=1491(LC 41)

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

TOP CHORD 2-4=-2405/263, 4-5=-2598/336, 5-6=-2537/377, 6-7=-1986/269, 7-8=-1852/262,

8-9=-1605/236, 11-18=-166/1306, 10-18=-166/1306

BOT CHORD $2\text{-}17\text{=-}407/2086, \, 5\text{-}15\text{=-}278/86, \, 13\text{-}15\text{=-}368/2001, \, 12\text{-}13\text{=-}296/1990, \, 11\text{-}12\text{=-}161/1008}$ 4-17=-397/121, 15-17=-363/2094, 4-15=-9/319, 6-15=-106/899, 7-12=-1380/215, WFBS

10-3-8

5-0-0

10-3-8

2-2-4

12-5-12

5-3-8

8-12=-61/657, 9-12=-121/1004, 9-11=-1515/255, 10-23=-1493/197

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) United and the decision of 15-5-12, Interior(1) 15-5-12 to 22-2-4, Exterior(2R) 22-2-4 to 25-2-4, Interior(1) 25-2-4 to 31-10-12 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) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=123, 23=138.
- 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 16,2020

👠 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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ANSI/TPI 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/61 Woodside
					143624494
2524433	M5	Roof Special	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:38 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-LUg0RsDuH0q?07y1lj6ZCT4aTjL2bhslJb_r__yJb0t

- 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.

Job Truss Truss Type Qty Summit/61 Woodside 143624495 2524433 M6 Roof Special Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:39 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-pgE0fCEW2JyseHXEIReolgdh47lcKFfuYFkOWQyJb0s

Structural wood sheathing directly applied, except end verticals, and

6-13, 7-12, 9-11, 10-23

2-0-0 oc purlins (2-2-0 max.): 6-7, 8-10.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:70.8

14-0-12 22-0-12 24-2-4 28-1-6 32-4-0 5-0-0 3-9-4 8-0-0 2-1-8 3-11-2 4-2-10

3x6 =3x6 =4x4 = 6x6 II 12x22 MT18HS 🕏 4x4 = 7x8 = 10 31 9,32 33 6.00 12 \bowtie 2x4 2829 26 4x6 / 4 25 8-9-11 / 8-8-0 9 15 13 12 11 6x8 14 2x4 || 3x4 = 5x8 =4x8 = 18 17 3x6 =

	000	1000	17012	22 0 12	2727	02 7 0		
	5-3-8	5-0-0	3-9-4	8-0-0	2-1-8	8-1-12		
Plate Offsets (X,Y) [2:	0-0-0,0-0-11], [6:0-5-4	1,Edge], [7:0-10-8,0-2-0], [16:0-2-12,0-2-12	2], [18:0-3-8,0-2-0]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACIN Plate Gr Lumber Rep Stre	ip DOL 1.15 DOL 1.15	CSI. TC 0.89 BC 0.70 WB 0.49	Vert(CT)	in (loc) -0.13 13-15 -0.31 13-15 0.08 23	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 MT18HS	GRIP 197/144 197/144
BCDI 10.0	Code IR	C2018/TPI2014	Matrix-AS				Weight: 191 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

5x8 =

6-7: 2x4 SPF 1650F 1.5E, 7-8,8-10: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 23=0-3-8

Max Horz 2=223(LC 16)

Max Uplift 2=-116(LC 16), 23=-144(LC 16) Max Grav 2=1513(LC 2), 23=1430(LC 41)

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

2-3=-2519/241, 3-5=-2606/328, 5-6=-2578/395, 6-7=-1618/220, 7-8=-1432/206, TOP CHORD

4x8 =

3x4 ||

8-9=-1206/184, 11-19=-183/1302, 10-19=-183/1302

BOT CHORD 2-18=-426/2141, 5-16=-384/105, 15-16=-349/1876, 13-15=-348/1880, 12-13=-265/1623, 11-12=-125/701

WEBS 3-18=-358/134, 16-18=-419/2010, 6-16=-184/974, 6-15=0/303, 6-13=-423/105, 7-13=-25/337, 7-12=-1378/233, 8-12=-48/536, 9-12=-146/1039, 9-11=-1378/240,

10-23=-1432/207

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 14-0-12, Exterior(2R) 14-0-12 to 17-0-12, Interior(1) 17-0-12 to 24-2-4, Exterior(2R) 24-2-4 to 27-2-4, Interior(1) 27-2-4 to 31-10-12 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 MT20 plates unless otherwise indicated.
- 8) The Fabrication Tolerance at joint 7 = 12%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continuescity of age azing surface



November 16,2020



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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside	
2524433	M6	Roof Special	1	1		143624495
2024400	IVIO	Rooi Special		!	Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:40 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-lsnmsYE9pd4jGR6Qs891Hu9sqX5r3iv2nvTy3tyJb0r

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=116, 23=144.
- 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.

Job Truss Truss Type Summit/61 Woodside 143624496 2524433 M7 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:42 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-EFvXHEGPLEKRVlGo_ZBVMJFGKKlDXa?KEDy27lyJb0p

Structural wood sheathing directly applied, except end verticals, and

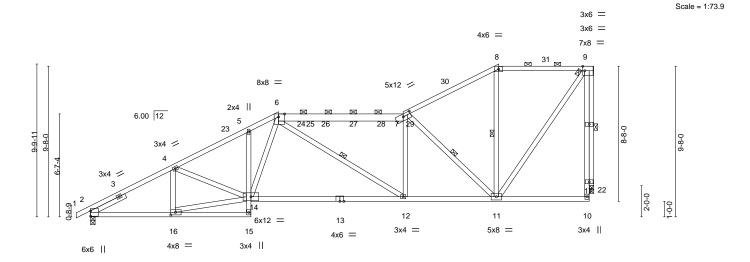
6-12, 7-11, 8-11, 9-22

2-0-0 oc purlins (4-0-8 max.): 6-7, 8-9.

Rigid ceiling directly applied

1 Row at midpt

12-0-12 26-2-4 32-3-8 5-0-0 1-9-4 8-0-0 6-1-8 6-1-4



20-0-12 32-3-8 10-3-8 12-0-12 5-0-0 1-9-4 8-0-0

Plate Offsets (X,Y)--[6:0-4-10,Edge], [7:0-6-0,0-2-0], [9:0-1-8,Edge], [16:0-3-8,0-2-0]

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 0.64 BC 0.83	DEFL. in (loc) I/defl L/d Vert(LL) -0.28 12-14 >999 240 Vert(CT) -0.63 12-14 >617 180	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.58 Matrix-AS	Horz(CT) 0.10 22 n/a n/a	Weight: 175 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

6-7: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

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

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

REACTIONS. (size) 2=0-3-8, 22=0-3-0

Max Horz 2=249(LC 16)

Max Uplift 2=-109(LC 16), 22=-152(LC 16)

Max Grav 2=1512(LC 2), 22=1419(LC 2)

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

TOP CHORD $2-4=-2403/225,\ 4-5=-2594/309,\ 5-6=-2519/350,\ 6-7=-2097/219,\ 7-8=-1080/125,$

8-9=-879/147

2-16=-446/2085, 5-14=-266/84, 12-14=-416/2053, 11-12=-336/2101 **BOT CHORD** WFBS

4-16=-396/128, 14-16=-403/2086, 4-14=-14/284, 6-14=-108/870, 7-12=0/316,

7-11=-1644/238, 9-11=-241/1412, 9-22=-1420/218

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) United and the order to have been contained of the statement of the sta 15-0-12, Interior(1) 15-0-12 to 26-2-4, Exterior(2R) 26-2-4 to 29-2-4, Interior(1) 29-2-4 to 31-10-4 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) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109, 22=152
- 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.

Continued on page 2



ROLL STONAL

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

November 16,2020

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

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside	
2524433	M7	Roof Special	1	1		143624496
2024400	IVI7	Roui Special		!	Job Reference (optional)	

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:42 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-EFvXHEGPLEKRVIGo_ZBVMJFGKKIDXa?KEDy27lyJb0p

- 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.

Job Truss Truss Type Summit/61 Woodside 143624497 2524433 M8 Roof Special Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:44 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Ae1HiwHftsa9l2PB5_DzSkKb08Q4?WhdhXR9CeyJb0n

> 3x6 = 3x6 = 3x6 =

> > 2-0-0 [2

Structural wood sheathing directly applied, except end verticals, and

6-12, 7-11, 8-11, 9-10

10

3x4 II

11

6x8

2-0-0 oc purlins (3-5-15 max.): 5-6, 8-9.

Rigid ceiling directly applied.

1 Row at midpt

Scale: 1/8"=1

23-1-8 5-0-12 28-2-4 5-0-12 4-10-10

3x6 =3x6 = 4x4 = 5x5 = 8 935 34 33 4x6 = 32 8x8 = 5x12 🖊 6.00 12 10-8-0 3x4 / 306

3x6 = 4x8 = 2x4 || 4x8 || 10-0-12 10-3-8 4-10-10 0-2-12 18-0-12 23-1-8 7-9-4 5-0-12 5-0-12

14

 $^{17}_{5x8}^{16} =$

13

12

4x6 =

Plate Offsets (X,Y)-- [2:0-4-10,Edge], [5:0-4-10,Edge], [6:0-6-0,0-2-0], [9:0-3-0,0-0-8], [15:0-5-12,0-3-4], [18:0-3-8,0-2-0]

18

254

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 0.80 WB 0.51	DEFL. in (loc) l/defl L/d Vert(LL) -0.23 13-15 >999 240 Vert(CT) -0.51 13-15 >747 180 Horz(CT) 0.10 19 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 186 lb FT = 20%
BCDL 10.0	0000 11(02010/11 12014	Watrix 710		Weight: 100 lb 11 = 2070

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

5-6: 2x6 SPF No.2 2x4 SPF No.2

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

Left 2x4 SPF No.2 2-6-0 **SLIDER**

REACTIONS. (size) 2=0-3-8, 19=0-3-8

Max Horz 2=345(LC 13)

Max Uplift 2=-134(LC 16), 19=-124(LC 16) Max Grav 2=1527(LC 42), 19=1437(LC 2)

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

TOP CHORD 2-4=-2391/292, 4-5=-2631/353, 5-6=-2640/355, 6-7=-1583/258, 7-8=-675/201,

8-9=-533/201, 9-19=-1400/251

BOT CHORD 2-18=-549/2072, 13-15=-586/2327, 12-13=-437/2640, 11-12=-297/1337 WFBS

4-18=-387/160, 15-18=-549/2063, 4-15=-39/373, 5-13=-13/436, 6-12=-1720/227,

7-12=-113/1199, 7-11=-1399/216, 9-11=-260/1375, 5-15=-55/517

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) United and the order to have been contained on 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 10-0-12, Exterior(2R) 10-0-12 to 13-0-12, Interior(1) 13-0-12 to 28-2-4, Exterior(2R) 28-2-4 to 31-2-4, Interior(1) 31-2-4 to 31-10-12 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) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134, 19=124,
- 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.

Continued on page 2



SSIONAL

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

November 16,2020

Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					143624497
2524433	M8	Roof Special	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:45 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-eqbfvFlHe9j0MC_NfhkC_xtmmYmJkzxnwBBik4yJb0m

- 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.

Job Truss Truss Type Qty Summit/61 Woodside 143624498 2524433 M9 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-XbqAldLohODRrpl9uXp89n1SS96EgiKMrp9wtryJb0i 23-0-6 30-0-0 32-4-0 3-10-10 2-2-12 5-9-4 6-11-10 6-11-10 2-4-0

Scale = 1:75.6 6x6 = 3x6 = 4x8 = 9 10 3x6 =2x4 || 8 5x12 MT20HS 🥠 6x6 = 3x4 =6.00 12 5 6 26 27 3x4 243 9 12 11 14 6x12 = 13 16 6x12 = 6x6 = 3x12 MT20HS = 5x12 = 2x4 | I |2x4 || 4x8 |

32-4-0

2-0-0 oc purlins (2-8-3 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals, and

7-12, 9-11, 10-23

Plate Offsets (X,Y)--[2:0-4-10,Edge], [7:0-6-0,0-2-0], [15:0-5-0,0-3-4] LOADING (psf) (loc) **PLATES** SPACING-CSI. DEFL. in I/defl L/d GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.27 14 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.93 Vert(CT) -0.51 14-15 >762 180 MT20HS 148/108 TCDL 10.0 Rep Stress Incr YES WB 0.80 Horz(CT) 0.11 23 n/a n/a **BCLL** 0.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

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

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

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

REACTIONS. (size) 2=0-3-8, 23=0-3-8 Max Horz 2=278(LC 16)

10.0

Max Uplift 2=-100(LC 16), 23=-161(LC 16) Max Grav 2=1513(LC 2), 23=1421(LC 2)

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

8-0-12 8-0-12

TOP CHORD 2-4=-2389/225, 4-5=-2287/208, 5-6=-3023/332, 6-7=-3089/340, 7-8=-1739/109,

8-9=-1763/230, 11-18=-237/1366, 10-18=-237/1366

BOT CHORD 2-17=-484/2067, 6-15=-501/99, 14-15=-474/3511, 12-14=-472/3516, 11-12=-67/291 5-17=-764/180, 15-17=-395/2108, 5-15=-229/1839, 7-15=-622/0, 7-12=-2310/279, **WEBS**

Code IRC2018/TPI2014

8-12=-669/196, 9-12=-288/2085, 9-11=-1302/274, 10-23=-1422/225

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 8-0-12, Exterior(2R) 8-0-12 to 11-0-12, Interior(1) 11-0-12 to 30-0-0, Exterior(2E) 30-0-0 to 31-10-12 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

10-3-8

2-2-12

16-0-12

Matrix-AS

- 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) Bearing at joint(s) 23 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) 2 except (jt=lb)
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Contishestrockobage plied directly to the bottom chord



FT = 20%

Weight: 175 lb

November 16,2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to Use Only with New Controlled S. This costign is based only upon parameters shown, and is for an individual druining Component, not a fundamental property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					143624498
2524433	M9	Roof Special	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

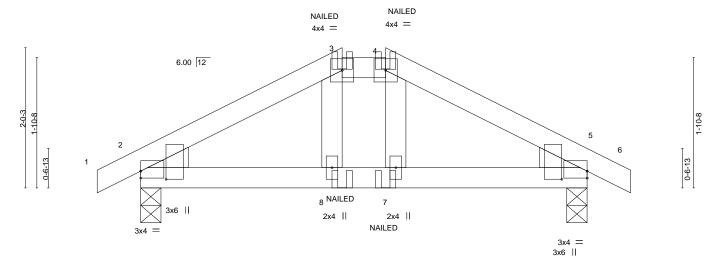
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:49 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-XbqAldLohODRrpl9uXp89n1SS96EgiKMrp9wtryJb0i

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

Job Truss Truss Type Qty Summit/61 Woodside 143624499 2524433 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:51 2020 Page 1

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-T_ywAJN2D?T947SX?yrcEC7way_K8o5fl7e1xkyJb0g 3-6-4 0-7-8 7-0-8 -0-7-8 0-7-8 2-10-12 2-10-12 0-7-8

Scale = 1:16.6



2-10-12

Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-1-6,0-4-6], [5:Edge,0-1-3], [5:0-1-6,0-4-6]

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 NO	CSI. TC 0.09 BC 0.13 WB 0.02	Vert(CT) -0	in (loc) 0.01 7-14 0.01 7-14 0.00 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
	Code IRC2018/TPI2014	Matrix-MP					Weight: 22 lb	FT = 20%
BCDL 10.0	0000 11102010/1112011	mann m					110.g.m 22 15	

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

WEBS 2x4 SPF No.2 WEDGE

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

REACTIONS. (size) 2=0-3-8, 5=0-3-8

Max Horz 2=32(LC 57)

Max Uplift 2=-42(LC 12), 5=-42(LC 12) Max Grav 2=400(LC 35), 5=400(LC 35)

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

TOP CHORD 2-3=-416/36, 3-4=-330/43, 4-5=-416/36 **BOT CHORD** 2-8=0/335, 7-8=-0/330, 5-7=0/335

- 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, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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, 3-4=-61, 4-6=-51, 9-12=-20



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

2-0-0 oc purlins (6-0-0 max.): 3-4.

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

November 16,2020

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	Summit/61 Woodside
					143624499
2524433	P1	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:51 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-T_ywAJN2D?T947SX?yrcEC7way_K8o5fl7e1xkyJb0g

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-30(B) 4=-30(B) 8=-14(B) 7=-14(B)



Job Truss Truss Type Summit/61 Woodside 143624500 2524433 P2 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:52 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-xAWJNfOg_Jb0iH1jZfMrmQf5CMKftF7pXnNaUAyJb0f Scale = 1:16.8 4x4 = 3 6.00 12 13 0-6-13 0-6-13 6 2x4 || 3x6 ||

Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-1-6,0-4-6], [4:Edge,0-1-3], [4:0-1-6,0-4-6]

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 0.10 BC 0.12 WB 0.03	DEFL. in (loc) l/defl Vert(LL) 0.01 6-9 >999 Vert(CT) -0.01 6-12 >999 Horz(CT) 0.00 2 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
	Code IRC2018/TPI2014	Matrix-AS			Weight: 21 lb	FT = 20%
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

WEBS 2x4 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=37(LC 15)

Max Uplift 2=-42(LC 16), 4=-42(LC 16) Max Grav 2=333(LC 2), 4=332(LC 2)

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

TOP CHORD 2-3=-333/185, 3-4=-333/185 BOT CHORD 2-6=-76/259, 4-6=-76/259

- 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) -0-7-8 to 2-4-8, Interior(1) 2-4-8 to 3-2-8, Exterior(2R) 3-2-8 to 6-5-0, Interior(1) 6-5-0 to 7-0-8 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, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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 16,2020



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



Job Truss Truss Type Qty Summit/61 Woodside 143624501 2524433 P3 COMMON Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:54 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-tZe3oKPxWwrkxbA6h4PJsrlRhA?_L9d5?5shY3yJb0d Scale = 1:17.3 4x4 = 2 6.00 12 0-6-13 0-6-13 3x6 II 2x4 || 3x4 3x4 3x6 II Plate Offsets (X,Y)-- [1:0-0-0,0-1-3], [1:0-1-6,0-4-6], [3:Edge,0-1-3], [3:0-1-6,0-4-6] LOADING (psf) SPACING-DEFL. GRIP in (loc) I/defl L/d **PLATES** 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.10 Vert(LL) -0.01 4-10 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) -0.01 4-10 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 19 lb Matrix-AS

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 WEBS 2x4 SPF No.2

WEDGE

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

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

Max Horz 1=31(LC 15)

Max Uplift 1=-23(LC 16), 3=-23(LC 16) Max Grav 1=289(LC 2), 3=289(LC 2)

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

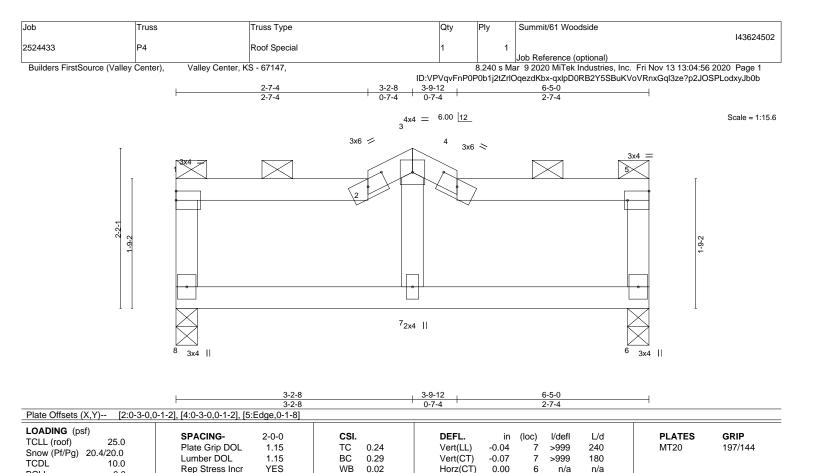
TOP CHORD 1-2=-342/186, 2-3=-342/196 **BOT CHORD** 1-4=-108/268, 3-4=-108/268

- 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) 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 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, 3.
- 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 16,2020





BRACING-

TOP CHORD

BOT CHORD

Matrix-AS

LUMBER-

REACTIONS.

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

0.0

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

(size) 8=0-3-8, 6=0-3-8 Max Horz 8=54(LC 15)

Max Uplift 8=-28(LC 12), 6=-28(LC 13) Max Grav 8=294(LC 40), 6=294(LC 40)

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

Code IRC2018/TPI2014

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 2-7-4, Interior(1) 2-7-4 to 3-2-8, Exterior(2E) 3-2-8 to 3-9-12, Interior(1) 3-9-12 to 6-3-4 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.
- Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 20%

Weight: 20 lb

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 1-2, 4-5.

Rigid ceiling directly applied

November 16,2020



Job Truss Truss Type Qty Summit/61 Woodside 143624503 Valley 2524433 V1 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:57 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-l8JCQMRpprDJo2vhMCy0TTNw8N?hYVpYh35L9NyJb0a 2-11-0 2-10-12 Scale = 1:11.5 3x6 = 6.00 12 1-3-13 1-3-13 4 2x4 / 3x4 II Plate Offsets (X,Y)--[2:0-3-0,Edge], [3:Edge,0-1-8] LOADING (psf) SPACING-DEFL. GRIP 2-0-0 CSI. in (loc) I/defl L/d **PLATES** 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.22 Vert(LL) 999 MT20 197/144 n/a n/a Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) n/a n/a 999 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 14 lb Matrix-R BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins: 2-3. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=5-9-4, 4=5-9-4 Max Horz 1=36(LC 15)

Max Uplift 1=-18(LC 16), 4=-23(LC 13) Max Grav 1=227(LC 35), 4=240(LC 34)

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=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
- 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) Gable requires continuous bottom chord bearing.
- 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) 1, 4.
- 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 16,2020



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



Job Truss Truss Type Qty Summit/61 Woodside 143624504 2524433 V2 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:58 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-mKtaeiSRa9LAQCUtwwTF0hvyunlRHy3hvjqvhqyJb0Z 6-11-0 0-10-12 Scale = 1:22.2 3x6 =4x12 MT20HS || 2 6.00 12 4x4 / 3x4 || Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-8,Edge] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI in (loc) I/defl L/d 25.0 TCLL (roof) 197/144 Plate Grip DOL 1.15 TC 0.79 Vert(LL) 999 MT20 n/a n/a Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.42 Vert(CT) n/a n/a 999 MT20HS 148/108 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 21 lb FT = 20% Matrix-R BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-9-4, 4=7-9-4 Max Horz 1=106(LC 15)

Max Uplift 1=-22(LC 16), 4=-29(LC 13) Max Grav 1=376(LC 35), 4=337(LC 35)

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=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-11-0, Exterior(2E) 6-11-0 to 7-8-0 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.
- 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) Gable requires continuous bottom chord bearing.
- 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) 1, 4
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.

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

November 16,2020







Job Truss Truss Type Summit/61 Woodside 143624505 2524433 V3 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:04:59 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-EWRyr2T3LTT02M34Td_UZuSEhBiL0PLr8NaSEGyJb0Y

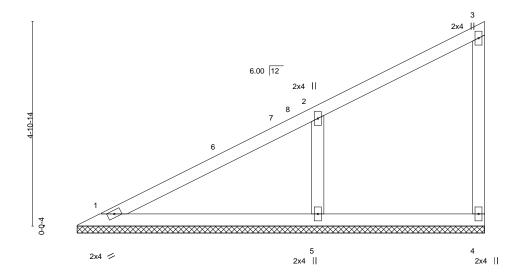
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

9-9-12

Scale = 1:27.6



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 0.34 BC 0.18 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	` ′					Weight: 30 lb	FT = 20%
BCDL 10.0	000002010/11 12011							sigitt. oo ib	2070

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

OTHERS 2x4 SPF No.2

(size) 1=9-9-4, 4=9-9-4, 5=9-9-4

Max Horz 1=158(LC 13)

Max Uplift 4=-23(LC 13), 5=-81(LC 16)

Max Grav 1=189(LC 2), 4=141(LC 20), 5=512(LC 2)

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

2-5=-386/243 **WEBS**

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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; 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) 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) 4, 5.
- 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 16,2020



Job Truss Truss Type Summit/61 Woodside 143624506 2524433 V4 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Nov 13 13:05:01 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-AvZiGkVKs4kkHfDSb21yeJXdb_P8TJp7cg3Zl9yJb0W

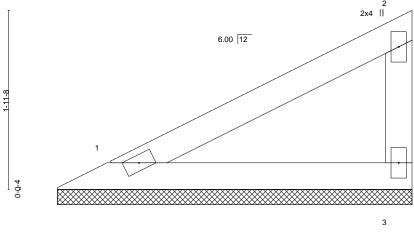
Structural wood sheathing directly applied or 3-11-0 oc purlins,

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

except end verticals.

3-11-0

Scale = 1:12.6



2x4 || 2x4 /

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.19 BC 0.10	DEFL. Vert(LL) Vert(CT)	in (lo n/a n/a	oc) l/defl - n/a - n/a	L/d 999 999	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P		0.00	3 n/a	n/a	Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. 1=3-10-8, 3=3-10-8 (size)

Max Horz 1=55(LC 13) Max Uplift 1=-10(LC 16), 3=-14(LC 13) Max Grav 1=147(LC 20), 3=147(LC 20)

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 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) 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, 3.
- 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.

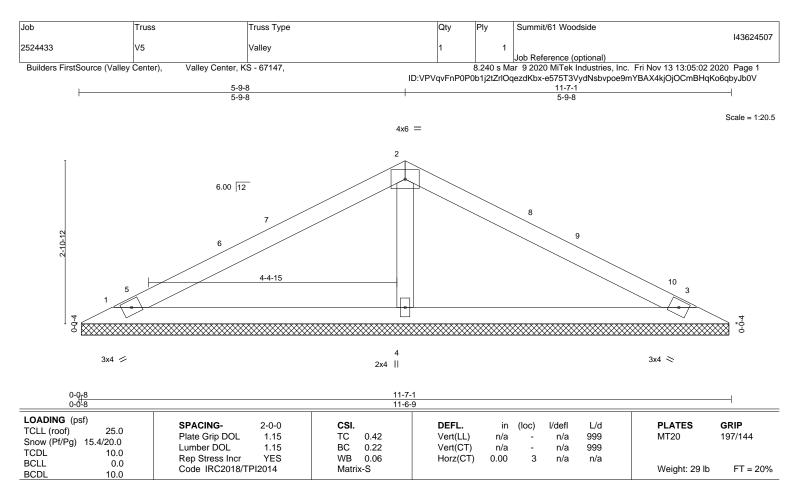


November 16,2020









BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

1=11-6-1, 3=11-6-1, 4=11-6-1 (size) Max Horz 1=-49(LC 14)

Max Uplift 1=-26(LC 16), 3=-26(LC 16), 4=-23(LC 16) Max Grav 1=225(LC 20), 3=225(LC 21), 4=506(LC 2)

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

2-4=-350/169 **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) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior(1) 8-9-8 to 10-11-8 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) 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) 1, 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

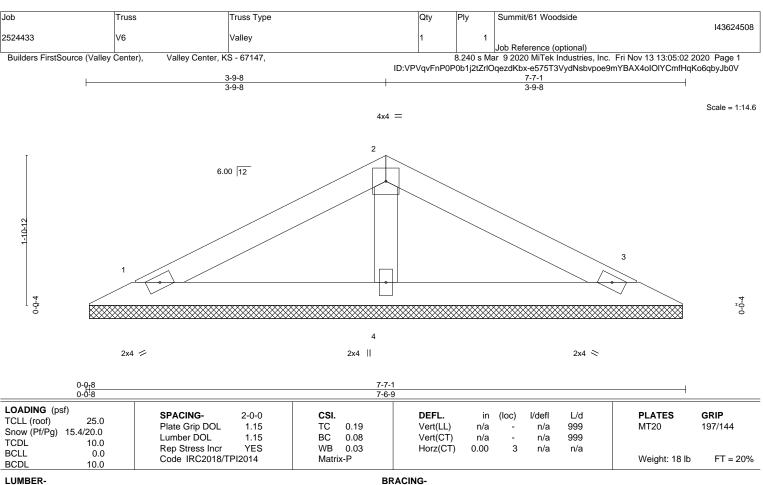
Rigid ceiling directly applied or 10-0-0 oc bracing.

November 16,2020



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





TOP CHORD

BOT CHORD

TOP CHORD

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

OTHERS 2x4 SPF No.2

REACTIONS. 1=7-6-1, 3=7-6-1, 4=7-6-1 (size)

Max Horz 1=-30(LC 14)

Max Uplift 1=-21(LC 16), 3=-21(LC 16), 4=-3(LC 16) Max Grav 1=148(LC 20), 3=148(LC 21), 4=279(LC 2)

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=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
- 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) 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) 1, 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

November 16,2020

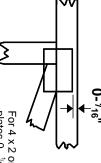


Symbols

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



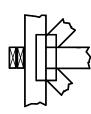
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



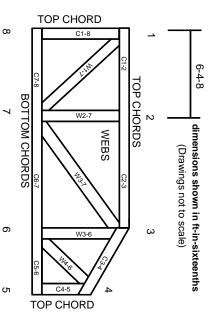
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards: ANSI/TPI1: National I

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.

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.

ω

Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other.
- 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.

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- 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.

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- 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.
- 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.