

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

03/05/2021

RE: W2-52

SUMMIT HOMES

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

Site Information:

Customer: Project Name: W2-52

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

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: 115 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 53 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	144749900	C1	2/15/2021	21	144749920	T3GE	2/15/2021
2	144749901	C1GE	2/15/2021	22	144749921	T4	2/15/2021
3	144749902	CJ1	2/15/2021	23	144749922	T4GE	2/15/2021
4	144749903	CJ2	2/15/2021	24	144749923	T5	2/15/2021
5	144749904	GR1	2/15/2021	25	144749924	T5A	2/15/2021
6	144749905	H1	2/15/2021	26	144749925	T5G	2/15/2021
7	144749906	H2	2/15/2021	27	144749926	T6	2/15/2021
8	144749907	J1	2/15/2021	28	144749927	T6A	2/15/2021
9	144749908	J2	2/15/2021	29	144749928	T7	2/15/2021
10	144749909	J3	2/15/2021	30	144749929	T8	2/15/2021
11	144749910	J4	2/15/2021	31	144749930	T9	2/15/2021
12	144749911	J5	2/15/2021	32	144749931	T10	2/15/2021
13	144749912	T1	2/15/2021	33	144749932	T10A	2/15/2021
14	144749913	T1G	2/15/2021	34	144749933	T10B	2/15/2021
15	144749914	T1GE	2/15/2021	35	144749934	T11	2/15/2021
16	144749915	T2	2/15/2021	36	144749935	T11GE	2/15/2021
17	144749916	T2GE	2/15/2021	37	144749936	V1	2/15/2021
18	144749917	T3	2/15/2021	38	144749937	V2	2/15/2021
19	144749918	T3A	2/15/2021	39	144749938	V3	2/15/2021
20	144749919	T3B	2/15/2021	40	144749939	V4	2/15/2021

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by Mid America MO.

Truss Design Engineer's Name: Sevier, Scott

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

Missouri COA: 001193

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





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

03/05/2021

RE: W2-52 - SUMMIT HOMES

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

Site Information:

Project Customer: F

Project Name: W2-52

Lot/Block: Address:

Subdivision:

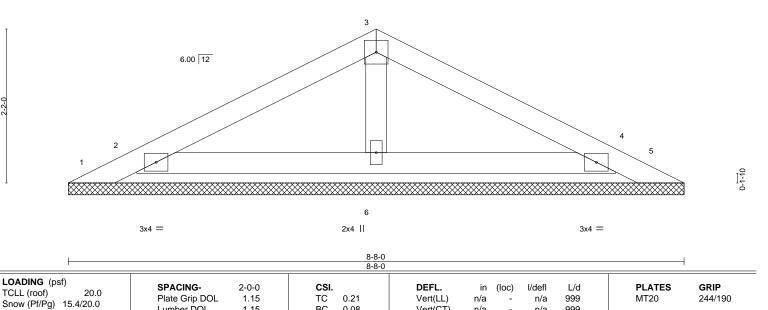
City, County:

State:

No.	Seal#	Truss Name	Date
41	144749940	V5	2/15/2021
42	144749941	V6	2/15/2021
43	144749942	V7	2/15/2021
44	144749943	V8	2/15/2021
45	144749944	V9	2/15/2021
46	144749945	V10	2/15/2021
47	144749946	V11	2/15/2021
48	144749947	V12	2/15/2021
49	144749948	V13	2/15/2021
50	144749949	V14	2/15/2021
51	144749950	V15	2/15/2021
52	144749951	V16	2/15/2021
53	144749952	V17	2/15/2021

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749900 DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 C₁ **GABLE** Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:16 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-?HyBwqSO0wvr6_vibYypPOPGTeUWxkPRCqOrMHzmZwj 8-8-0 03/05/2021 4-4-0 4-4-0

4x4 =



Vert(CT)

Horz(CT)

BOT CHORD

n/a

0.00

999

n/a

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

n/a

n/a

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

LUMBER-BRACING-TOP CHORD

Code IRC2018/TPI2014

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

2x4 SP No.2

10.0

0.0

10.0

REACTIONS. All bearings 8-8-0. Max Horz 1=23(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=-114(LC 16), 5=-114(LC 17) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=363(LC 16), 4=363(LC 17)

1.15

YES

ВС

WB

Matrix-P

0.08

0.02

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

Lumber DOL

Rep Stress Incr

NOTES-

TCDI

BCLL

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=114, 5=114.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Weight: 27 lb

FT = 3%

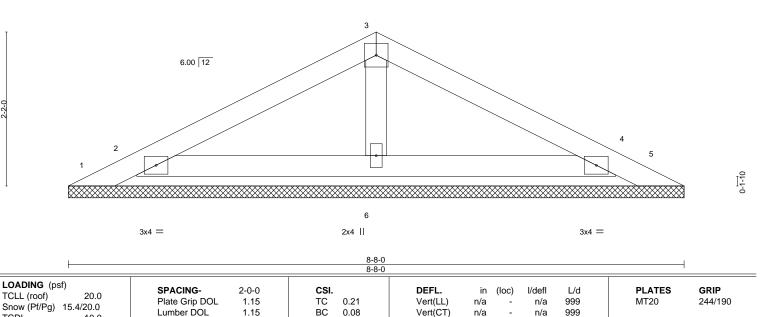
Scale = 1:16.2

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749901 AS NOTED ON PLANS REVIE W2-52 C1GE **GABLE DEVELOPMENT SERVICES** Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:17 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-TTWZ8AT0nD1ij8Uu9GT2ybyRD1plgBfbRU7PukzmZwi 8-8-0 03/05/2021 4-4-0 4-4-0

4x4 =



Horz(CT)

TOP CHORD

BOT CHORD

0.00

4

n/a

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

n/a

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

LUMBER-BRACING-

Code IRC2018/TPI2014

Rep Stress Incr

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

2x4 SP No.2

10.0

0.0

10.0

All bearings 8-8-0. Max Horz 1=23(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=-114(LC 16), 5=-114(LC 17) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=363(LC 16), 4=363(LC 17)

YES

WB

Matrix-P

0.02

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

NOTES-

REACTIONS.

TCDI

BCLL

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=114, 5=114.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Weight: 27 lb

FT = 3%

Scale = 1:16.2

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION Diagonal Hip Girder AS NOTED ON PLANS REVIE 144749902 W2-52 CJ1 **DEVELOPMENT SERVICES** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:18 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-xf4xLWUeYX9ZLI35jz?HVpUakR4gPeBkg8tyQAzmZwh 03/05/2021⁶⁻¹⁰⁻⁵ 6-10-5 1-2-14 Scale = 1:19.1 3x4 || 3 Special 4.24 12 Special 0-6-0 4 Special Special 2x4 || 6-10-5 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES GRIP** CSI. (loc) TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.35 0.01 2-4 >999 360 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.42 Vert(CT) -0.12 2-4 >676 240 TCDI 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 4 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 35 lb FT = 3% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 2x4 SP No.2 BOT CHORD

WEBS 2x4 SP No.2 WEDGE

Left: 2x4 SP No.2

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

Max Horz 2=94(LC 8)

Max Uplift 4=-27(LC 8), 2=-60(LC 7) Max Grav 4=303(LC 16), 2=372(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 38 lb up at 4-1-7, and 64 lb down and 38 lb up at 4-1-7 on top chord, and 12 lb down and 5 lb up at 4-1-7, and 12 lb down and 5 lb up at 4-1-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-3=-51, 2-4=-20 Concentrated Loads (lb)

Vert: 6=-35(F=-18, B=-18) 7=-7(F=-3, B=-3)



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

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

except end verticals.

February 11,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION Diagonal Hip Girder AS NOTED ON PLANS REVIE 144749903 W2-52 CJ2 **DEVELOPMENT SERVICES** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:19 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-PseKZsVGJrHQzSeHGhWW101axrL683LuvocWyczmZwg -1-2-14 7-6-12 03/05/2021 1-2-14 1-6-11 6-0-1 4x4 || Scale = 1:20.4 5 Special Special 4.24 12 10 Special 5x10 = Special 5x10 = 6 12 1-0-0 0-6-0 3x4 =Special 11 8 Special 3x4 = 6x8 = Special 7-6-12 Plate Offsets (X,Y)-- [4:0-4-0,0-2-4], [6:Edge,0-1-8], [9:0-2-0,0-4-12] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.96 Vert(LL) -0.17 6-7 >512 360 244/190 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.73 Vert(CT) -0.286-7 >309 240 TCDL 10.0 Rep Stress Incr NO WB 0.13 Horz(CT) 6 0.10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 36 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing **WEBS** REACTIONS. (size) 9=0-5-5, 6=Mechanical Max Horz 9=97(LC 30)

Max Uplift 9=-68(LC 7), 6=-50(LC 11) Max Grav 9=408(LC 16), 6=373(LC 16)

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

TOP CHORD 3-4=-785/94

BOT CHORD 8-9=-76/383, 7-8=-39/252

WFBS 3-8=-327/80, 3-9=-452/49, 3-7=-99/549

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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) 9, 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 49 lb down and 17 lb up at 1-11-15, 49 lb down and 17 lb up at 1-11-15, and 68 lb down and 32 lb up at 4-9-14, and 68 lb down and 32 lb up at 4-9-14 chord, and 4 lb down and 9 lb up at 1-11-15, 4 lb down and 9 lb up at 1-11-15, and 27 lb down and 23 lb up at 4-9-14, and 27 lb down and 23 lb up at 4-9-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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)

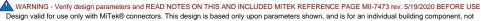
Vert: 1-2=-51, 2-5=-51, 8-9=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 10=-32(F=-16, B=-16) 11=1(F=1, B=1) 12=-55(F=-27, B=-27)



February 11,2021



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



TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 *Except*

1-18: 2x8 SP 2400F 2.0E 2x4 SP No.2 *Except*

2-20: 2x10 SP 2400F 2.0E

REACTIONS. (lb/size) 1=9016/0-4-0 (req. 0-5-7), 12=2005/0-4-0

Max Horz 1=243(LC 8)

Max Grav 1=9237(LC 33), 12=2322(LC 33)

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

TOP CHORD 1-2=-15466/0, 2-3=-8756/0, 3-4=-8721/0, 4-21=-5798/0, 5-21=-5693/0, 5-22=-5801/0,

6-22=-5722/0, 6-7=-3234/0, 7-23=-2843/0, 8-23=-2843/0, 8-24=-1960/0, 9-24=-1961/0,

9-10=-2325/0, 10-25=-1346/0, 11-25=-1470/0, 5-17=-454/142, 11-12=-2290/0 1-26=0/13176, 20-26=0/13176, 19-20=0/13176, 18-19=0/1067, 16-17=0/3767,

15-16=0/2408, 14-15=0/2408, 13-14=0/1283

WEBS 2-20=0/6626, 2-19=-5934/0, 4-19=0/2144, 17-19=0/6890, 4-17=-3059/0, 6-17=0/3036,

6-16=-2119/0, 7-16=0/1154, 8-16=0/1083, 8-14=-1210/0, 9-14=0/629, 10-14=0/958,

10-13=-1467/0. 11-13=0/2020

NOTES-

BOT CHORD

WFBS

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-2-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x10 - 4 rows staggered at 0-2-0 oc, 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 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.
- 7) Provide adequate drainage to prevent water ponding.
- 8) Plates checked for a plus or minus 3 degree rotation about its center.
- 9) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 10) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 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.

OF MISS SCOTT M. SEVIER NUMBER OFFESSIONAL S PE-2001018807

Structural wood sheathing directly applied or 3-8-8 oc purlins, except

end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9, 5-18. Except:

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)

ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

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

10-0-0 oc bracing: 17-18

OR THE BUILDING DESIGNER.

February 11,2021

🗥 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/TPI1 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

			RELEAS					
Job	Truss	Truss Type	CONSTRU	ICTION	Ply		SUMMIT HOMES	
W2-52	GR1	DICCABVCK	RASE CIPPENOTED ON PL	ANS REVIEW	1			144749904
VVZ-32	GICT	ITIOOTBACK	AS NOTED ON PL BASE GIRDE DEVELOPMENT	T SERVICES		2	Job Reference (optional)	
Mid America Truss, Jefferson City	, MO 65101, Mitek		LEE'S SUMMIT	. MISSOURI			8.430 s Nov 30 2020 MiTek Industries, Inc. T	
				D:Fpza38BvacFyJ	Nwxg	HΙΝ	N8dztCCb-9U3GTr_VGwiNpqOjV6II9Qr	UDZAAHF?AFCebUVZMBXe

NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalen 93(9562070) the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

14) Fill all nail holes where hanger is in contact with lumber.

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7604 lb down at 2-11-8 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: 1-5=-51, 5-7=-51, 7-9=-61, 9-11=-51, 1-18=-20, 12-17=-20

Concentrated Loads (lb)

Vert: 20=-7604(F) 26=-544(F)

Job Truss Truss Type W2-52 H1 Hip Girder

1-1-12

Jefferson City, MO - 65101,

3-1-12

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIED DEVELOPMENT SERVICES

SUMMIT HOMES

3-1-12

144749905

Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:26 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHN8dztCCb-iCZz1Faff_AQJWgdBf89pUqoogjCHApwWOpNiizmZwZ 15-0-0 1-1-12 1-1-12 1-1-12 13-10-4 12-8-8

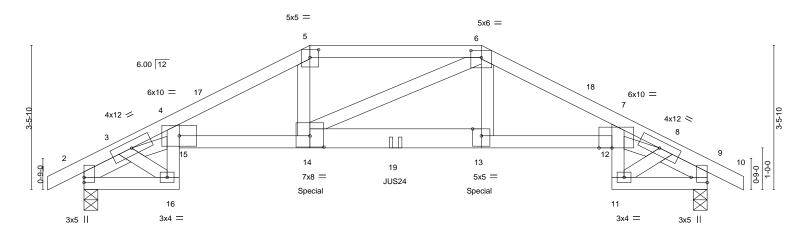
Structural wood sheathing directly applied or 3-10-5 oc purlins.

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

1-1-12

0<mark>3/05/2021</mark>

Scale = 1:27.7



	2-3-8	5-5-4			9-6-12	1	12-	-8-8		15-0-0	
	2-3-8	3-1-12			4-1-8		3-1	I-12		2-3-8	
Plate Offsets	(X,Y) [5:0-2-8,0	0-2-4], [6:0-3-0,0-2-0], [7:	0-3-12,0-0-0],	[9:Edge,0-4-	10], [14:0-4-0	0,0-3-4]					
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.92 0.82 0.34	DEFL. Vert(LL) Vert(CT) Horz(CT)	(loc) 14-15 14-15 9	l/defl >999 >768 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-SH					Weight: 159 lb	FT = 3%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Mid America Truss,

0-10-8

1-1-12

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD** 14-15,12-13: 2x4 SP No.1, 13-14: 2x6 SP No.1

2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -t 1-2-2, Right 2x4 SP No.2 -t 1-2-2

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

Max Horz 2=36(LC 54)

Max Uplift 2=-128(LC 11), 9=-128(LC 12) Max Grav 2=1453(LC 34), 9=1453(LC 34)

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

TOP CHORD $2-3=-1940/181,\ 3-4=-3972/385,\ 4-5=-3289/341,\ 5-6=-2967/329,\ 6-7=-3294/322,$

7-8=-3973/345, 8-9=-1939/180

BOT CHORD 2-16=-140/1333, 15-16=-47/555, 4-15=-28/570, 14-15=-288/2971, 13-14=-242/2972,

12-13=-242/2976, 11-12=-30/554, 7-12=-10/567, 9-11=-106/1332

WFBS 3-16=-863/93, 5-14=-101/1072, 6-13=-107/1075, 8-11=-863/65, 3-15=-268/2791,

8-12=-212/2792

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 0-9-0 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 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.

- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 9=128,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere naesasia nadard ANSI/TPI 1.



February 11,2021

🗥 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/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 W2-52 H1 Hip Girder

RELEASE FOR CONSTRUCTION Ply AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 2 Job Reference (optional) LEE'S SUMMIT, MISSOUR430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:26 2021 Page 2

SUMMIT HOMES

144749905

Mid America Truss,

Jefferson City, MO - 65101,

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-iCZz1Faff_AQJWgdBf89pUqoogjCHApwWOpNiizmZwZ

NOTES03/05/2021

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 7-6-0 from the left end to compect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

13) Fill all nail holes where hanger is in contact with lumber.

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 576 lb down and 122 lb up at 5-5-4, and 576 lb down and 122 lb up at 9-6-0 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: 1-5=-51, 5-6=-61, 6-10=-51, 2-16=-20, 12-15=-20, 9-11=-20

Concentrated Loads (lb)

Vert: 14=-576(F) 13=-576(F) 19=-231(F)



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749906 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 H2 Hip Girder DEVELOPMENT SERVICES | Z | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:27 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-AO7LEbbHQIIHwgFpkMfOMiM5c3CQ0h23k2YxE9zmZwY 03<mark>/05/2021</mark> 0-10-8 4-11-4 4-11-4 0-10-8

5x8 = 4x5 =3 6.00 12 10 ПП 11 8 JUS24 2x4 || 5x5 = 4x10 || 4x10 ||

4-11-4 Plate Offsets (X,Y)--[2:0-5-8,Edge], [3:0-6-0,0-2-8], [5:0-5-8,Edge] LOADING (psf) (loc) SPACING-CSI. **DEFL** I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.02 7-8 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.25 Vert(CT) -0.04 7-8 >999 240 TCDL 10.0 Rep Stress Incr NO WB 0.09 Horz(CT) 0.01 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-P Weight: 148 lb

BRACING-

TOP CHORD

BOT CHORD

9-0-12

HJC26

14-0-0

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

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

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

WEDGE

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

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

10.0

Max Horz 2=-33(LC 9)

Max Uplift 2=-101(LC 11), 5=-101(LC 12) Max Grav 2=1288(LC 34), 5=1288(LC 34)

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

TOP CHORD 2-3=-1942/161, 3-4=-1623/167, 4-5=-1942/161 **BOT CHORD** 2-8=-130/1590, 7-8=-132/1625, 5-7=-111/1590

WEBS 3-8=-37/680, 4-7=-49/712

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 0-9-0 oc.

Bottom chords connected as follows: 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.

HJC26

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 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.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 5=101.
- 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) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 4-0-12 oc max. starting at 4-11-10 from the left end to 9-0-6 to connect truss(es) to back face of bottom chord.

Continued on page 2



Scale = 1:25.7

February 11,2021

🗥 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/TPI1 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

Job Truss Truss Type W2-52 H2 Hip Girder

RELEASE FOR CONSTRUCTION Ply

SUMMIT HOMES

144749906

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 2 Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:27 2021 Page 2

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-AO7LEbbHQIIHwgFpkMfOMiM5c3CQ0h23k2YxE9zmZwY

Mid America Truss, Jefferson City, MO - 65101,

NOTES
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord.

14) Fill all nail holes where hanger is in contact with lumber.

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, 2-5=-20

Concentrated Loads (lb)

Vert: 8=-480(B) 7=-480(B) 11=-206(B)

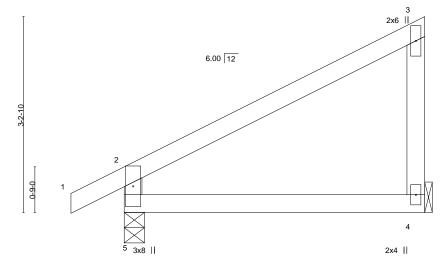


RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749907 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 J1 Jack-Closed DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:28 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101,

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-ebgjSwcwBcQ8Yqq0I4AduvvH1TZ4I9fCzilUnbzmZwX 03/05/20211-4 4-11-4 -0-10-8 0-10-8

Scale = 1:18.9



4-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) -0.01 >999 244/190 0.36 4-5 360 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.03 4-5 >999 240 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 4 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 22 lb FT = 3% **BCDL** 10.0

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2 REACTIONS.

5=0-4-0, 4=Mechanical (size) Max Horz 5=99(LC 10) Max Uplift 5=-11(LC 11), 4=-20(LC 8) Max Grav 5=289(LC 16), 4=226(LC 16)

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

TOP CHORD 2-5=-258/45

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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.



February 11,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

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

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

except end verticals.

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749908 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 J2 Jack-Open Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:29 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-6nE5fGcYyvY?A_OCsnhsR7SWdtx_UcvMCM11J1zmZwW

03/05/26240-15 2-10-15

6.00 12 0-6-0

2-10-15 2-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 Vert(LL) 0.00 360 244/190 TC 0.12 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.00 4-5 >999 240 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 11 lb FT = 3% **BCDL** 10.0

LUMBER-BRACING-

-0-10-8

0-10-8

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical Max Horz 5=46(LC 11)

Max Uplift 5=-1(LC 11), 3=-30(LC 11)

Max Grav 5=221(LC 16), 3=86(LC 16), 4=29(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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.



Scale = 1:14.0

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749909 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 J3 Jack-Closed DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:29 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-6nE5fGcYyvY?A_OCsnhsR7SShtsNUcvMCM11J1zmZwW -0-10-8 2-3-8 2-3-8 03/05/2021 0-10-8 3-1-12 Scale = 1:21.6 2x6 || 6.00 12 2-5-10 2x4 || 3 3x4 = 5 1-0-0

2-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL TC Vert(LL) -0.05 244/190 1.15 0.37 6 >999 360 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.35 Vert(CT) -0.08 6 >787 240 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.04 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 24 lb FT = 3% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

2x4 ||

except end verticals.

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

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

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

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

Max Horz 8=95(LC 8)

Max Uplift 8=-10(LC 11), 5=-23(LC 11) Max Grav 8=300(LC 16), 5=251(LC 16)

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

TOP CHORD 2-8=-278/28

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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

3x8 II

- 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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, 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.



February 11,2021

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749910 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 J4 Jack-Open Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:30 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHlN8dztCCb-azoUtcdAjDgsn8zOQVC5_K_hlHFFD39VR0nbrTzmZwV -0-10-8 3-4-15 ²03/05/2021 0-10-8 Scale = 1:15.2 2x4 || 6.00 12 3 2x4 = 0-0-1 ⁷2x4 || 3x8 LOADING (psf)

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in

-0.01

-0.01

0.00

(loc)

except end verticals.

6 >999

5

I/defI

>999

n/a

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

L/d

360

240

n/a

Structural wood sheathing directly applied or 3-4-15 oc purlins,

PLATES

Weight: 15 lb

MT20

GRIP

244/190

FT = 3%

LUMBER-

TCLL (roof)

TCDI

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

20.0

10.0

0.0

10.0

WEBS 2x4 SP No.2

Snow (Pf/Pg) 15.4/20.0

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

Max Horz 8=53(LC 11)

Max Uplift 4=-19(LC 11), 5=-5(LC 11)

Max Grav 8=247(LC 16), 4=88(LC 16), 5=56(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-R

0.12

0.11

0.00

- 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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, 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.



February 11,2021





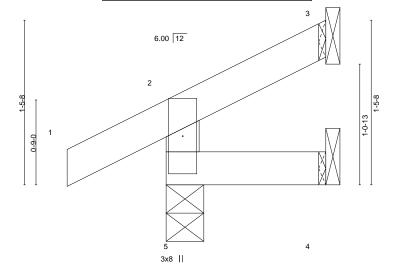
RELEASE FOR Job Truss Truss Type CONSTRUCTION SUMMIT HOMES 144749911 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 J5 Jack-Open DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:31 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101,

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-3AMs4yeoUXojPIYbzCkKWYXsQhcmyWPffgW8NwzmZwU 03/05/2021¹⁻⁴⁻¹⁵ 0-10-8

Scale = 1:10.2

FT = 3%



1-4-15

TCDL	20.0 5.4/20.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.10 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 360 240 n/a	PLATES MT20	GRIP 244/190
BCLL	0.0	Code IRC2018/TF		Matri		(**)		-			Weight: 7 lb	FT =
BCDL	10.0										g	

LUMBER-BRACING-

TOP CHORD 2x4 SP No 2 TOP CHORD Structural wood sheathing directly applied or 1-4-15 oc purlins, 2x4 SP No.2 **BOT CHORD** except end verticals. WEBS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=30(LC 8)

Max Uplift 5=-5(LC 11), 3=-14(LC 11)

Max Grav 5=157(LC 16), 3=22(LC 16), 4=12(LC 9)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 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.





RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 T1 Common DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:31 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHlN8dztCCb-3AMs4yeoUXojPIYbzCkKWYXlzhS3yT0ffgW8NwzmZwU -0-10-8 0-10-8 10-2-0 5-5-2 03/05/2021 4-8-14 5-5-2 4-8-14

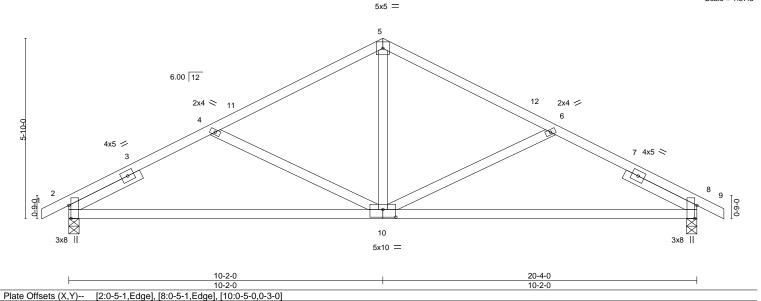
Scale = 1:37.3

Structural wood sheathing directly applied or 5-0-15 oc purlins.

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

144749912

21-2-8 0-10-8



LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.04 10 >999 360 MT20 244/190 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.65 Vert(CT) -0.18 2-10 >999 240 TCDL 10.0

Rep Stress Incr YES WB 0.22 Horz(CT) 0.04 8 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 101 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.2 **SLIDER** Left 2x4 SP No.2 -t 2-7-6, Right 2x4 SP No.2 -t 2-7-6

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

Max Horz 2=63(LC 8)

Max Uplift 2=-20(LC 11), 8=-20(LC 12) Max Grav 2=866(LC 2), 8=866(LC 2)

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

2-4=-1272/66, 4-5=-962/32, 5-6=-962/32, 6-8=-1272/66 TOP CHORD

BOT CHORD 2-10=-56/1055 8-10=0/1055

WEBS 5-10=0/458, 6-10=-328/127, 4-10=-328/127

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 3 degree rotation about its center.
- 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.

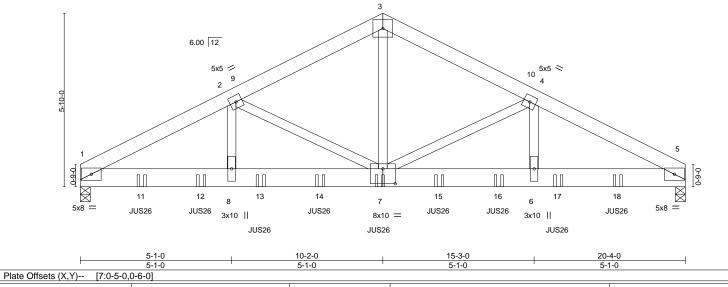


February 11,2021



RELEASE FOR Job Truss Truss Type Ply SUMMIT HOMES CONSTRUCTION 144749913 Roof Special Girder AS NOTED ON PLANS S NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 T1G DEVELOPMENT SERVICES | Z | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:43 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-iT4Ob3nKfCJ0r8Tugjx8?41tjWeWmpvQQXQnpDzmZwl 20-4-0 10-2-0 15-3-0 03/05/2021 5-1-0 5-1-0 7x8 = Scale = 1:38.7



LOADING (psf) TCLL (roof) 20.0 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 0.20 BC 0.29 WB 0.54	DEFL. i Vert(LL) -0.00 Vert(CT) -0.13 Horz(CT) 0.00	6-7 6-7	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH	11012(01) 0.04	, ,	II/a	II/a	Weight: 292 lb	FT = 3%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No.2 **WEBS**

(size) 1=0-4-0, 5=0-4-0

Max Horz 1=60(LC 33)

Max Uplift 1=-100(LC 11), 5=-98(LC 12) Max Grav 1=4471(LC 2), 5=4404(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-7614/179, 2-3=-5408/155, 3-4=-5408/155, 4-5=-7616/180 TOP CHORD BOT CHORD 1-8=-162/6612, 7-8=-162/6612, 6-7=-108/6612, 5-6=-108/6612 WFBS 3-7=-70/4421, 4-7=-2083/123, 4-6=0/1978, 2-7=-2083/122, 2-8=0/1973

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 18-0-12 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

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



Structural wood sheathing directly applied or 5-11-8 oc purlins.

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

February 11,2021

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type T1G W2-52

Jefferson City, MO - 65101,

RELEASE FOR CONSTRUCTION Ply Roof Special Girder AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 2 Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:43 2021 Page 2

03/05/2021

SUMMIT HOMES

144749913

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-iT4Ob3nKfCJ0r8Tugjx8?41tjWeWmpvQQXQnpDzmZwl

LOAD CASE(S) Standard Concentrated Loads (lb)

Mid America Truss,

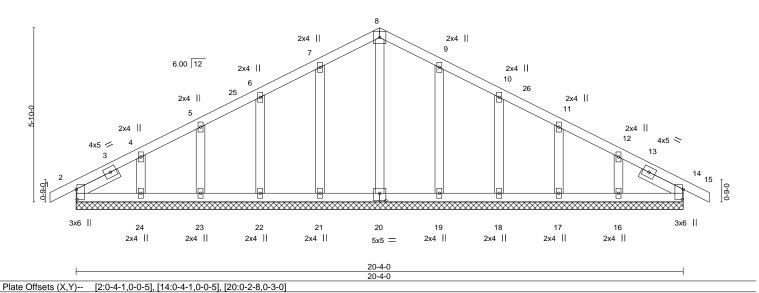
Vert: 7=-738(B) 11=-738(B) 12=-738(B) 13=-738(B) 14=-738(B) 15=-738(B) 16=-738(B) 17=-738(B) 18=-738(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749914 Common Supported Gable DEVELOPMENT SERVICES W2-52 T1GE DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:44 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-AgempPoyQWRtTI24ERSNYHZ4ew2tVOfZfBAKLfzmZwH 20-4-0 21-2-8 0-10-8 0-10-8 10-2-0 03/05/2021 10-2-0 10-2-0

5x5 =



LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 14 120 MT20 244/190 n/r Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 14 n/r 90 TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 14 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 113 lb BCDL 10.0

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -t 1-7-3, Right 2x4 SP No.2 -t 1-7-3

REACTIONS. All bearings 20-4-0.

Max Horz 2=-63(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 22, 23, 24, 19, 18, 17, 16

All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 24, 19, 18, 17, 16, 14

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 22, 23, 24,
- 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.



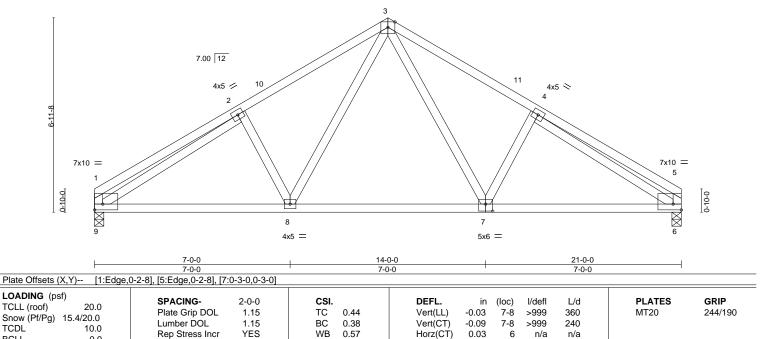
Scale = 1:38.6

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749915 S NOTED ON PLANS REVIE DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 T2 Roof Special DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:45 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-esC90lpaBqZk4RdHo8_c5V6AVKJaEj1jtrvut6zmZwG 15-9-0 21-0-0 03/05/2021 5-3-0 5-3-0 5-3-0 Scale = 1:41.2 5x6 =



BRACING-

TOP CHORD

BOT CHORD

Matrix-SH

n/a

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

except end verticals.

n/a

Structural wood sheathing directly applied or 5-3-11 oc purlins,

LUMBER-

REACTIONS.

BCLL

BCDL

WEBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2

0.0

10.0

Max Horz 9=145(LC 8) Max Uplift 9=-8(LC 11), 6=-8(LC 12) Max Grav 9=828(LC 2), 6=828(LC 2)

(size) 9=0-4-0, 6=0-4-0

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

TOP CHORD 1-2=-317/51, 2-3=-1047/79, 3-4=-1047/79, 4-5=-317/51, 1-9=-264/51, 5-6=-264/51

Code IRC2018/TPI2014

BOT CHORD 8-9=-38/933, 7-8=0/651, 6-7=0/929

WFBS 3-7=-37/411, 3-8=-37/410, 2-9=-874/0, 4-6=-874/0

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 3%

Weight: 119 lb

February 11,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

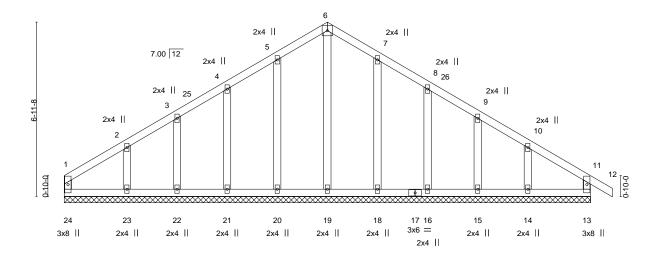
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749916 Roof Special Supported Gable DEVELOPMENT SER REVIE W2-52 T2GE VICES Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:46 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-62mXD4pCy7hbibCTMsVrdifQdkjkzHfs6VfRPYzmZwF 21-10-8 0-10-8 21-0-0 03/05/2021 10-6-0 10-6-0 Scale = 1:46.0

5x5 =



21-0-0 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES** GRIP CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.10 -0.00 12 n/r 120 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) -0.00 12 90 n/r TCDI 10.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 13 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 122 lb FT = 3% **BCDL** 10.0

21-0-0

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2 WEBS **OTHERS** 2x4 SP 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 6-0-0 oc bracing.

REACTIONS. All bearings 21-0-0.

Max Horz 24=-153(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 13, 20, 21, 22, 23, 18, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 24, 13, 19, 20, 21, 22, 23, 18, 16, 15, 14

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 13, 20, 21, 22, 23, 18, 16, 15, 14.
- 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.



February 11,2021



LUMBER-

TOP CHORD

WEBS

REACTIONS. (lb/size) 1=1684/0-4-0, 12=1690/Mechanical

> Max Horz 1=166(LC 10) Max Uplift 1=-13(LC 11)

Max Grav 1=1958(LC 33), 12=2005(LC 33)

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

TOP CHORD 1-2=-3583/13, 2-3=-3497/33, 3-23=-3173/21, 23-24=-3107/35, 4-24=-2980/53,

4-5=-2543/67, 5-25=-2145/87, 6-25=-2145/87, 6-26=-2030/70, 7-26=-2030/70,

7-8=-2936/109, 8-27=-2850/30, 9-27=-2964/2, 9-28=-3005/9, 10-28=-3143/0,

10-11=-1655/4, 11-12=-1945/0

BOT CHORD 1-22=-71/3060, 21-22=-72/3057, 20-21=0/2779, 19-20=0/2779, 18-19=0/2105,

8-16=-473/126, 15-16=0/2755, 14-15=-29/1564, 10-14=-1183/58 3-21=-385/94, 4-21=0/330, 4-19=-930/130, 5-19=0/727, 6-18=-429/95, 16-18=0/2002,

7-16=-105/1263, 9-16=-263/85, 10-15=0/1240, 11-14=-19/1896

NOTES-

WFBS

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1.
- 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.



February 11,2021



	0.00 —	4x5 =	6x6 =		
6.6 6x6 = 24 4x5 = 2 4x5 = 2 6x8 23 2x6	22 21 20 4x5 = 3x10 MT20HS =	26 8 6 27	7 4x5 8 4x4 9 2 117 119 118 6x12 4x4 =	29 6x12 = 5x5 \(\) 10 11 12 16 14 13	2-3-8 1-0-0 11-0-0
	6x10	0 =		4x5 =	

6-10-0	6-10-0 6-1)-0 '	3-8-0	7-8-0	2-5-4	5-8-12 1-7-0	,				
Plate Offsets (X,Y) [5:0-3-0,0-2-0], [7:0-3-0,0-2-0], [18:Edge,0-2-0], [19:0-4-8,0-3-0]											
LOADING (psf) TCLL (roof) 20.0 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 0.78 BC 0.84 WB 0.53 Matrix-SH	- ' '	in (loc) I/defl -0.21 20 >999 -0.45 19-20 >999 0.21 13 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 337 lb	GRIP 244/190 187/143 FT = 3%				

29-2-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

36-10-0

2-0-0 oc purlins (3-9-4 max.): 5-7.

1 Row at midpt

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

39-3-4

Structural wood sheathing directly applied, except end verticals, and

4-20, 6-20, 6-19, 8-19

45-0-0

46-7-0

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

6-10-0

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

2x4 SP No.2 *Except* **BOT CHORD**

1-21: 2x4 SP No.1 **WEBS** 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -< 3-9-9

REACTIONS. (lb/size) 1=1684/0-4-0, 13=1690/Mechanical

Max Horz 1=166(LC 10) Max Uplift 1=-13(LC 11)

Max Grav 1=1958(LC 33), 13=2005(LC 33)

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

TOP CHORD 1-2=-3583/13, 2-3=-3497/33, 3-24=-3173/21, 24-25=-3107/35, 4-25=-2980/53, 4-5=-2542/67, 5-26=-2145/87, 6-26=-2144/88, 6-27=-2031/69, 7-27=-2031/69,

13-8-0

20-6-0

7-8=-2350/60, 8-9=-3028/82, 9-28=-2955/40, 10-28=-3046/27, 10-29=-3032/9,

11-29=-3127/0, 11-12=-1657/4, 12-13=-1942/0

1-23=-71/3059, 22-23=-73/3057, 21-22=0/2779, 20-21=0/2779, 19-20=0/2105,

BOT CHORD 16-17=0/2733. 15-16=-32/1590. 11-15=-1196/64

> 3-22=-385/94, 4-22=0/332, 4-20=-931/129, 5-20=0/725, 6-19=-425/98, 7-19=0/791, 8-19=-784/130, 17-19=0/2146, 8-17=-62/723, 11-16=0/1190, 12-15=-22/1917

NOTES-

WFBS

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 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; 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1.
- 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.



February 11,2021



TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*

5-7: 2x4 SP No.2, 1-3: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 *Except*

1-17: 2x4 SP No.1 2x4 SP No.2

WEBS SLIDER Left 2x4 SP No.2 -< 3-9-9

REACTIONS. (lb/size) 1=1684/0-4-0, 11=1690/Mechanical

> Max Horz 1=166(LC 8) Max Uplift 1=-13(LC 11)

Max Grav 1=1958(LC 33), 11=2005(LC 33)

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

TOP CHORD 1-2=-3583/13, 2-3=-3497/33, 3-20=-3173/21, 20-21=-3107/35, 4-21=-2980/53,

4-5=-2543/67, 5-22=-2145/87, 6-22=-2145/87, 6-23=-2038/72, 7-23=-2038/72,

7-8=-2421/50, 8-24=-2511/31, 24-25=-2629/11, 9-25=-2721/4, 9-10=-2048/7, 10-11=-1978/6

BOT CHORD 1-19=-71/3060, 18-19=-72/3057, 17-18=0/2779, 16-17=0/2779, 15-16=0/2103, 14-15=0/2351, 13-14=0/2351, 12-13=0/1814

3-18=-385/94, 4-18=0/331, 4-16=-930/130, 5-16=0/721, 6-15=-423/97, 7-15=0/662,

8-15=-466/126, 9-13=0/617, 9-12=-917/64, 10-12=0/2074

NOTES-

WFBS

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1.
- 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.



Structural wood sheathing directly applied, except end verticals, and

4-16, 6-16, 6-15, 8-15

2-0-0 oc purlins (3-9-4 max.): 5-7.

1 Row at midpt

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

February 11,2021



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



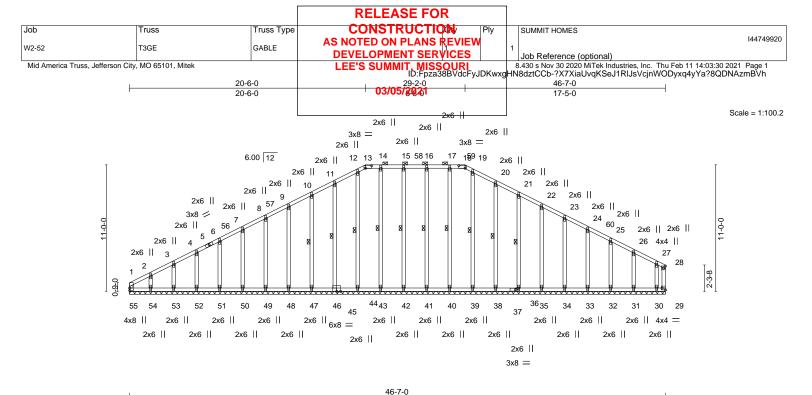


Plate Offsets (X,Y) [13:0-6-8,0-2-12], [18:0-6-8,0-2-12], [29:Edge,0-2-0], [37:0-2-8,0-1-8]											
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.10 BC 0.08 WB 0.17	Vert(CT)	in (loc) n/a - n/a - 0.00 29	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 376 lb	FT = 3%			

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except **BOT CHORD** 2x4 SP No.2 end verticals, and 2-0-0 oc purlins (6-0-0 max.): 13-18. 2x4 SP No.2 **WEBS**

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt

10-47, 11-46, 12-44, 14-43, 15-42, 16-41,

17-40, 19-39, 20-38, 21-36

REACTIONS. All bearings 46-7-0.

2x4 SP No.2

Max Horz 55=164(LC 8) (lb) -

 $\text{Max Uplift} \quad \text{All uplift 100 lb or less at joint(s) 55, 29, 54, 53, 52, 51, 50, 49, 48, 47, 46, 42, 41, 38, 36, 35, } \\$

34, 33, 32, 31 except 30=-109(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 55, 29, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 36, 35, 34, 33, 32, 31, 30

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 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.
- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 55, 29, 54, 53, 52, 51, 50, 49, 48, 47, 46, 42, 41, 38, 36, 35, 34, 33, 32, 31 except (jt=lb) 30=109.
- 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.



February 11,2021



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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749921 AS NOTED ON PLANS REVIE W2-52 T4 Common **DEVELOPMENT SERVICES** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:56 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-qzNJKVxUbCyAv8zOxygB1p33pm4DJlWKP34zmzzmZw5 + **03/05/2021** 9-11-0 12-6-0 4-11-8 2-7-0 Scale = 1:39.1

5x6 =

except end verticals.

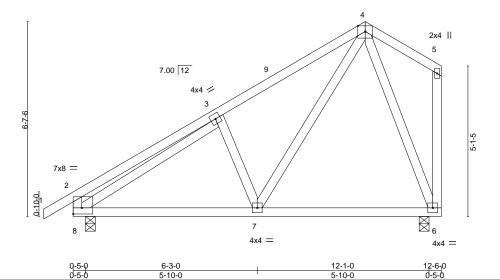


Plate Offsets (X,Y)-- [2:Edge,0-2-8] LOADING (psf) SPACING-DEFL. 2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.37 Vert(LL) -0.01 >999 360 MT20 244/190 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.31 Vert(CT) -0.05 7-8 >999 240 TCDL 10.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.01 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-P Weight: 83 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS. (size) 6=0-4-0, 8=0-4-0 Max Horz 8=196(LC 8)

Max Uplift 6=-23(LC 11), 8=-18(LC 11) Max Grav 6=485(LC 2), 8=560(LC 2)

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

TOP CHORD 3-4=-517/76 **BOT CHORD** 7-8=-73/499

3-7=-277/139, 4-7=-44/472, 4-6=-409/38, 3-8=-566/0 WFBS

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



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

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

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749922 Common Structural Gaple DEVELOPMENT SERVICES W2-52 T4GE Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:57 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-IAxhXry6MW41XHXaVgBQa1cEX9Uk2GtUeipWIPzmZw4 4-11-8 4-11-8 03/05/2029-11-0 4-11-8 0-10-8 0-10-8 12-6-0 2-7-0 Scale = 1:43.0 5x6 2x4 =

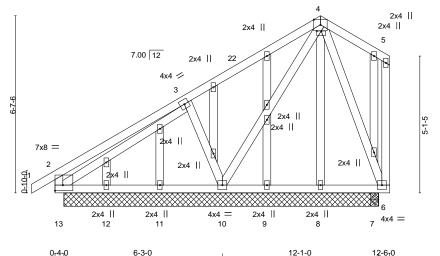


Plate Offsets (X,Y)-- [2:Edge,0-2-8], [4:0-2-0,0-0-0]

LOADING (psf) TCLL (roof) 20.0 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 0.37 BC 0.04 WB 0.13	Vert(CT)	in (loc) -0.00 8 -0.00 11 -0.00 6	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	,				Weight: 113 lb	FT = 3%

LUMBER-BRACING-

0-4-0

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

REACTIONS. All bearings 11-9-0 except (jt=length) 7=0-3-8.

Max Horz 13=195(LC 10)

2x4 SP No.2

Max Uplift All uplift 100 lb or less at joint(s) 10, 13, 6

Max Grav All reactions 250 lb or less at joint(s) 13, 6, 8, 9, 11, 12, 7 except 10=438(LC 2)

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

WEBS 3-10=-324/142

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 13, 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.



February 11,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749923 AS NOTED ON PLANS REVIE T5 W2-52 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:16:58 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-mMU3lBzk7pCu8R6n3Njf6E8PKZk1nfrdtMZ4rszmZw3 0-10-8 03/05/2021 10-1-4 4-10-12 12-8-8 13-10-4 15-0-0 15-10-8 1-1-12 1-1-12 2-7-4 2-7-4 2-7-4 1-1-12 1-1-12 0-10-8

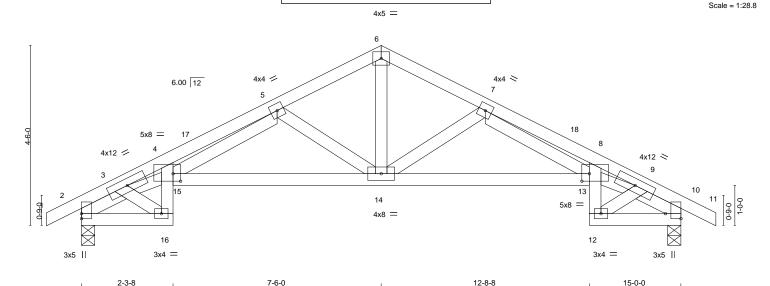


Plate Offsets (X,Y)--[4:0-2-4,0-2-4], [10:Edge,0-4-10], [13:0-2-4,0-2-4] LOADING (psf) SPACING-CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.37 Vert(LL) -0.07 14 >999 360 MT20 244/190 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.42 Vert(CT) -0.15 14-15 >999 240 TCDL 10.0 Rep Stress Incr YES WB 0.34 Horz(CT) 0.14 10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-P Weight: 86 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Left 2x4 SP No.2 -t 1-2-2, Right 2x4 SP No.2 -t 1-2-2 SLIDER

REACTIONS. (size) 2=0-4-0, 10=0-4-0

Max Horz 2=48(LC 8)

Max Uplift 2=-17(LC 11), 10=-17(LC 12) Max Grav 2=653(LC 2), 10=652(LC 2)

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

2-3=-790/20, 3-4=-1773/60, 4-5=-2064/106, 5-6=-852/9, 6-7=-852/15, 7-8=-2064/28, TOP CHORD 8-9=-1773/0 9-10=-790/20

2-16=-41/538, 15-16=-10/269, 14-15=-17/1066, 13-14=0/1066, 12-13=0/269,

10-12=0/538 WEBS 6-14=0/618, 7-14=-482/77, 7-13=-10/948, 9-12=-447/0, 5-14=-482/90, 5-15=-67/948,

3-16=-447/42, 3-15=-54/1366, 9-13=0/1366

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 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 3-7-13 oc purlins.

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

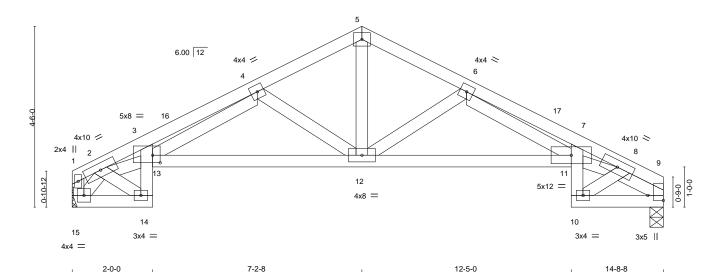
February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749924 REVIE **AS NOTED ON PLANS** W2-52 T5A Roof Special **DEVELOPMENT SER** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:00 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-ilcp9t__fRSbOlG9Aol7BfEltNQXFYRwKg2AvkzmZw1 0-10-5 0-10-5 9-9-12 13-6-12 14-8-8 03/05/2021 3-9-0 2-7-4 3-9-0 1-1-12

4x5 =



2-0-0 Plate Offsets (X,Y)--[3:0-2-4,0-2-4], [9:Edge,0-4-10] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.37 Vert(LL) -0.06 >999 360 244/190 11 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.42 Vert(CT) -0.13 11-12 >999 240 TCDL 10.0 9 Rep Stress Incr YES WB 0.33 Horz(CT) 0.12 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-P Weight: 82 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2

SLIDER Right 2x4 SP No.2 -t 1-2-2

REACTIONS.

(size) 9=0-4-0, 15=Mechanical

Max Horz 15=-62(LC 7)

Max Uplift 9=-8(LC 12), 15=-6(LC 11) Max Grav 9=582(LC 2), 15=582(LC 2)

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

TOP CHORD 2-3=-1489/52, 3-4=-1701/95, 4-5=-813/8, 5-6=-814/13, 6-7=-2035/36, 7-8=-1748/4, 8-9=-781/24

14-15=-29/338, 12-13=-15/978, 11-12=0/1033, 10-11=0/277, 9-10=-3/548

BOT CHORD WEBS 2-14=-288/32, 4-13=-59/659, 4-12=-417/88, 6-12=-484/78, 6-11=-16/956, 8-10=-462/6,

5-12=0/581, 2-15=-644/13, 8-11=0/1345, 2-13=-49/1167

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; enveloped; enveloped; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 are proposed; Lumber DOL=1.15 Plate DOL=1.15 Plate DOL=1.15; Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15 Plate DOL=1.15 Plate DOL=1.15 Plate DOL=1.15 Plat
- 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 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) 9, 15.
- 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 3-8-3 oc purlins,

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

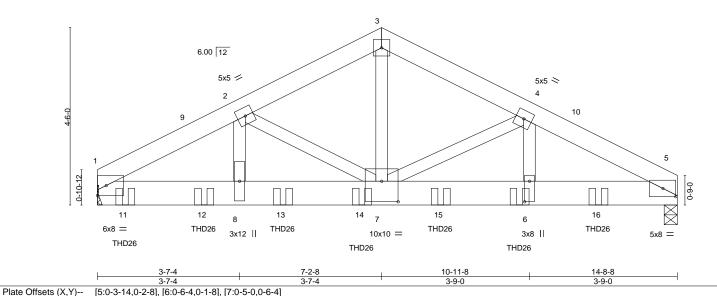
except end verticals.

Scale = 1:28.7



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749925 Roof Special Girder AS NOTED ON PLANS DEVELOPMENT SERVICES W2-52 T5G DEVELOPMENT SERVICES | Z | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:01 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-AxACND?cQkaS?vrMkVGMktmouni?_tX3ZKnkRAzmZw0 10-11-8 14-8-8 03/05/2021 3-9-0 3-9-0 Scale = 1:29.2 5x5 ||



DEFL

BRACING-

TOP CHORD

BOT CHORD

Vert(LL)

Vert(CT)

Horz(CT)

OR THE BUILDING DESIGNER.

(loc)

6-7

6-7

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR

ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)

5

-0.07

-0.13

0.04

I/defl

>999

>999

n/a

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

L/d

360

240

n/a

Structural wood sheathing directly applied or 4-8-13 oc purlins.

PLATES

Weight: 212 lb

MT20

GRIP

244/190

FT = 3%

CSI.

0.86

0.66

0.85

TC

BC

WB

Matrix-P

BCDL LUMBER-

TCDL

BCLL

LOADING (psf)

Snow (Pf/Pg) 15.4/20.0

TCLL (roof)

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No.2 **WEBS**

20.0

10.0

10.0

0.0

REACTIONS. (size) 1=Mechanical, 5=0-4-0 (req. 0-4-2)

Max Horz 1=45(LC 35)

Max Grav 1=7624(LC 15), 5=6956(LC 16)

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

1.15

1.15

NO

1-2=-11057/0, 2-3=-8201/0, 3-4=-8206/0, 4-5=-11405/0 TOP CHORD **BOT CHORD** 1-8=0/9392, 7-8=0/9392, 6-7=0/9807, 5-6=0/9807

WEBS

2-8=0/3167, 2-7=-2405/0, 3-7=0/6940, 4-7=-2832/0, 4-6=0/3291

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- 9) Refer to girder(s) for truss to truss connections.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-8 from the left end to 12-8-8 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

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



February 11,2021

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type T5G W2-52

RELEASE FOR CONSTRUCTION Ply Roof Special Girder AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 2 Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:01 2021 Page 2

SUMMIT HOMES

144749925

Mid America Truss,

Jefferson City, MO - 65101,

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-AxACND?cQkaS?vrMkVGMktmouni?_tX3ZKnkRAzmZw0

03/05/2021

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 6=-1985(B) 11=-1543(B) 12=-1985(B) 13=-1985(B) 14=-1985(B) 15=-1985(B) 16=-1985(B)

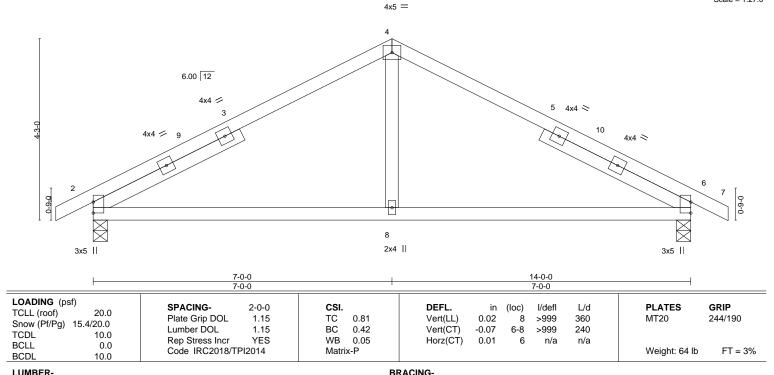


RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 T6 Common Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:02 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-e7kaaZ0EB2iJd3QYIDnbH4J_SA5_jXEDn_XH_dzmZw? -0-10-8 0-10-8 03/05/2021 7-0-0 7-0-0

Scale = 1:27.0

0-10-8

144749926



TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.2

2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -t 3-10-11, Right 2x4 SP No.2 -t 3-10-11

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=45(LC 8)

Max Uplift 2=-16(LC 11), 6=-16(LC 12) Max Grav 2=612(LC 2), 6=612(LC 2)

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

TOP CHORD 2-4=-693/4, 4-6=-692/0 **BOT CHORD** 2-8=0/524, 6-8=0/524

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 3 degree rotation about its center.
- 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.



Structural wood sheathing directly applied or 3-6-8 oc purlins.

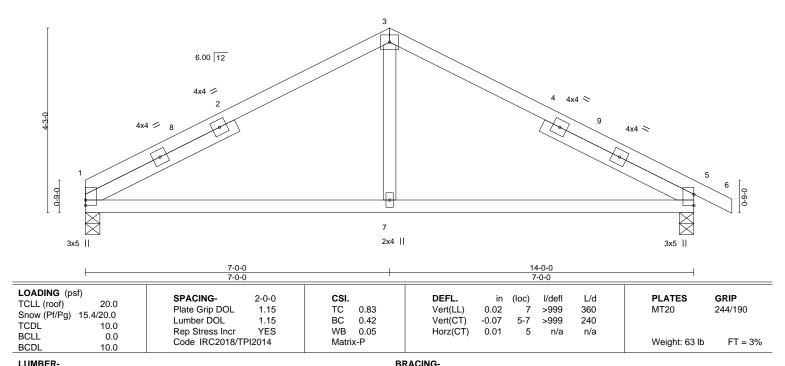
Rigid ceiling directly applied or 10-0-0 oc bracing.

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749927 S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 T6A Common Job Reference (optional) LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:03 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-7Klyou1tyMqAFC?krwlqpls9vaRCS_UM0eGrW3zmZw_ 14-10-8 03/05/2021 7-0-0 7-0-0 0-10-8

4x5 =



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2

2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -t 3-10-11, Right 2x4 SP No.2 -t 3-10-11

REACTIONS. (size) 1=0-4-0, 5=0-4-0 Max Horz 1=45(LC 8)

Max Uplift 1=-7(LC 11), 5=-16(LC 12) Max Grav 1=558(LC 2), 5=614(LC 2)

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

TOP CHORD 1-3=-694/4, 3-5=-696/0 **BOT CHORD** 1-7=0/527, 5-7=0/527

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



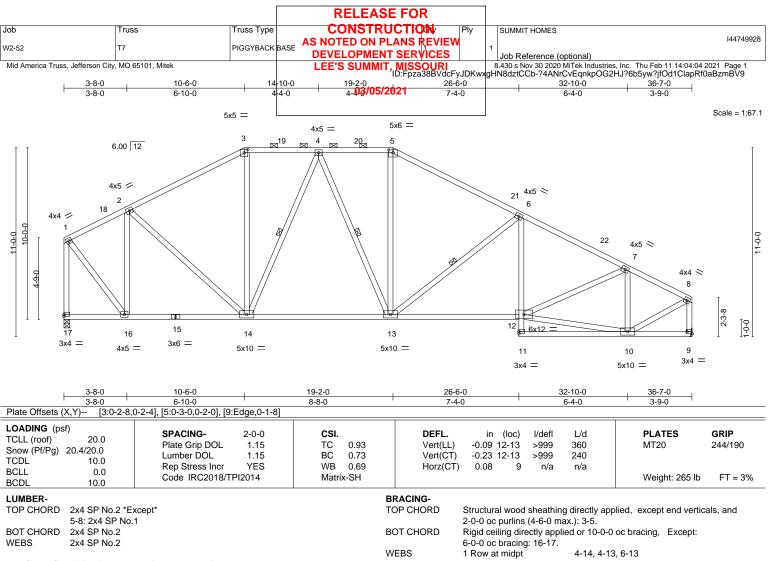
Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

Scale = 1:26.5

February 11,2021





REACTIONS. (lb/size) 17=1336/0-4-0, 9=1320/Mechanical

Max Horz 17=-223(LC 7) Max Uplift 9=-14(LC 12)

Max Grav 17=1634(LC 33), 9=1559(LC 33)

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

TOP CHORD 1-18=-987/15, 2-18=-877/21, 2-3=-1465/49, 3-19=-1182/57, 4-19=-1182/57

4-20=-1452/89, 5-20=-1452/88, 5-21=-1618/66, 6-21=-1783/29, 6-22=-2128/56,

7-22=-2315/33, 7-8=-1572/24, 1-17=-1610/0, 8-9=-1531/25 15-16=-36/871, 14-15=-36/871, 13-14=0/1327, 12-13=0/2026

BOT CHORD 2-16=-1005/59, 2-14=-17/509, 3-14=0/297, 4-14=-518/78, 4-13=-34/318, 5-13=0/348, WEBS

6-13=-735/131, 10-12=0/1304, 7-12=0/684, 7-10=-886/71, 1-16=0/1413, 8-10=0/1573

NOTES-

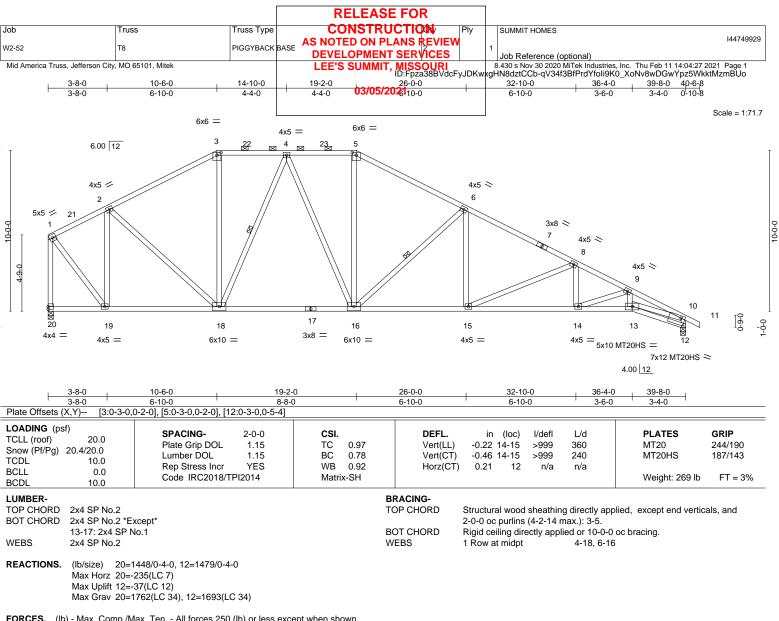
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 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) 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.





February 11,2021



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

TOP CHORD 1-21=-1067/12, 2-21=-957/22, 2-3=-1619/51, 3-22=-1322/58, 4-22=-1321/58,

4-23=-1697/92, 5-23=-1697/92, 5-6=-2041/73, 6-7=-2692/60, 7-8=-2898/35,

8-9=-3751/55, 9-10=-4750/52, 1-20=-1737/0, 10-12=-1754/61

BOT CHORD 18-19=0/942, 17-18=0/1521, 16-17=0/1521, 15-16=0/2511, 14-15=0/3360, 13-14=-9/4090,

12-13=-22/468

2-19=-1099/53, 2-18=-12/587, 3-18=0/361, 4-18=-644/74, 4-16=-35/444, 5-16=0/490,

6-16=-1105/126, 6-15=0/491, 8-15=-920/85, 8-14=0/403, 9-14=-803/43, 9-13=0/695,

1-19=0/1528. 10-13=0/3766

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 9) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 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.



February 11,2021

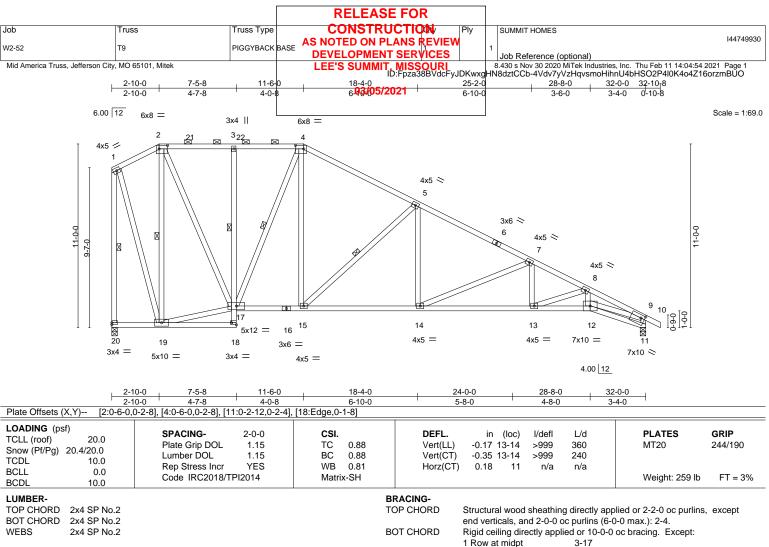


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





WEBS

1 Row at midpt

REACTIONS.

(lb/size) 20=1189/0-4-0. 11=1194/0-4-0

Max Horz 20=-330(LC 7)

Max Uplift 20=-19(LC 7), 11=-37(LC 12) Max Grav 20=1267(LC 2), 11=1367(LC 34)

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

TOP CHORD 1-2=-386/97, 2-21=-733/77, 3-21=-733/77, 3-22=-734/76, 4-22=-734/76, 4-5=-1270/77,

5-6=-1909/60, 6-7=-2115/35, 7-8=-2900/57, 8-9=-3741/53, 1-20=-1242/31,

9-11=-1413/62

BOT CHORD 19-20=-78/272, 3-17=-430/86, 16-17=0/1012, 15-16=0/1012, 14-15=0/1811, 13-14=0/2595,

12-13=-11/3211, 11-12=-22/386

WEBS 2-19=-999/72, 17-19=0/348, 2-17=-1/1044, 4-17=-755/51, 4-15=-7/851, 5-15=-1091/121,

5-14=0/476, 7-14=-850/87, 7-13=0/356, 8-13=-689/43, 8-12=0/562, 1-19=-55/1059,

9-12=0/2943

NOTES-

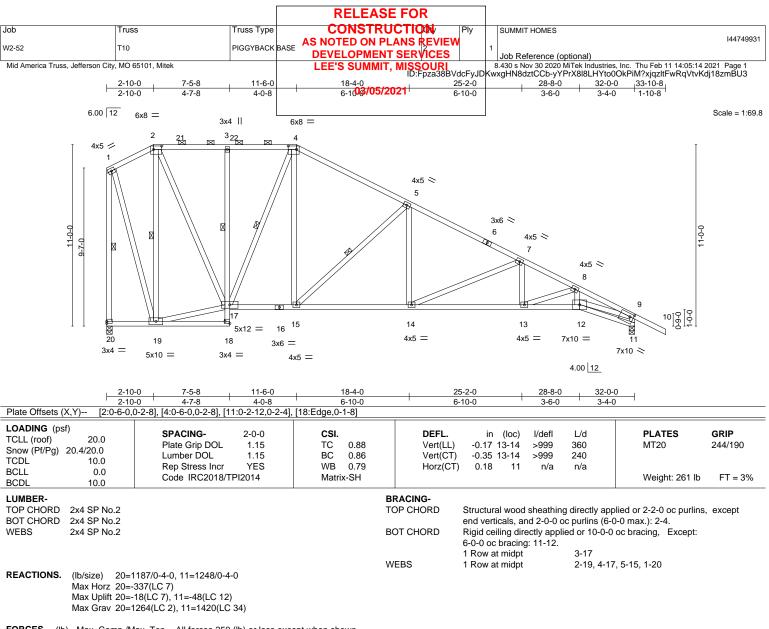
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 9) Bearing at joint(s) 11 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) 20, 11.
- 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.



2-19, 4-17, 5-15, 1-20





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

TOP CHORD 1-2=-385/97, 2-21=-731/75, 3-21=-730/75, 3-22=-732/75, 4-22=-732/75, 4-5=-1267/75,

5-6=-1901/56, 6-7=-2107/31, 7-8=-2876/46, 8-9=-3672/26, 1-20=-1239/31,

9-11=-1435/62

BOT CHORD 19-20=-77/279, 3-17=-430/86, 16-17=0/1009, 15-16=0/1009, 14-15=0/1804, 13-14=0/2574,

12-13=0/3149, 11-12=-36/283

WFBS 2-19=-996/70, 17-19=0/353, 2-17=0/1040, 4-17=-752/50, 4-15=-6/847, 5-15=-1086/119,

5-14=0/470, 7-14=-835/81, 7-13=0/339, 8-13=-638/27, 8-12=0/535, 1-19=-55/1057,

9-12=0/2976

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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 2.00 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 9) Bearing at joint(s) 11 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) 20, 11.
- 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.

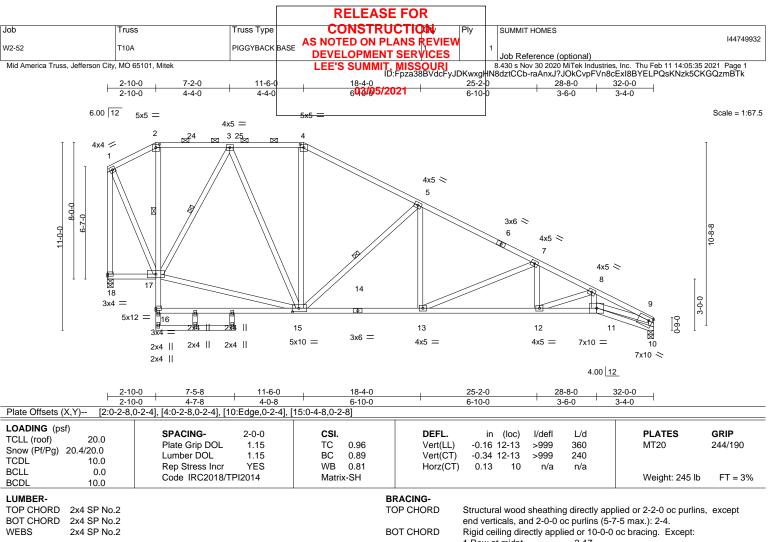


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WEBS

1 Row at midpt 2-17 1 Row at midpt 3-17, 5-15

REACTIONS. (lb/size) 18=1190/0-4-0, 10=1142/0-4-0

Max Horz 18=-285(LC 7) Max Uplift 10=-39(LC 12)

Max Grav 18=1268(LC 2), 10=1314(LC 33)

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

TOP CHORD 1-2=-509/64, 2-24=-425/60, 3-24=-425/61, 3-25=-989/120, 4-25=-989/120,

4-5=-1251/105, 5-6=-1910/95, 6-7=-2116/70, 7-8=-2910/96, 8-9=-3764/108,

1-18=-1226/11, 9-10=-1339/64

BOT CHORD 14-15=0/1812, 13-14=0/1812, 12-13=-17/2603, 11-12=-71/3242, 10-11=-24/320 15-17=0/774, 3-17=-778/98, 3-15=-55/599, 5-15=-1096/128, 5-13=0/470, 7-13=-857/91, WEBS

7-12=0/369, 8-12=-717/57, 8-11=0/553, 1-17=-27/1030, 9-11=-52/3037

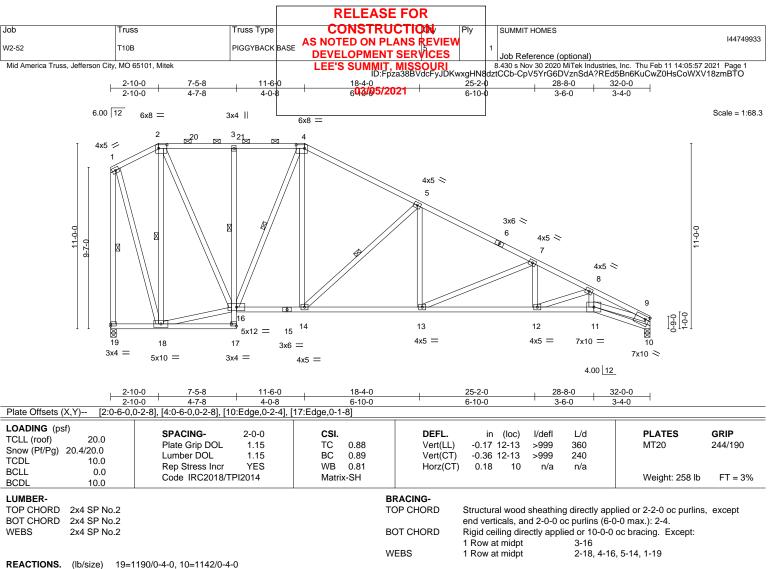
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.

 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
- 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.



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Max Horz 19=-322(LC 7)

Max Uplift 19=-19(LC 7), 10=-26(LC 12) Max Grav 19=1268(LC 2), 10=1314(LC 33)

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

TOP CHORD 1-2=-386/97, 2-20=-734/78, 3-20=-733/78, 3-21=-735/78, 4-21=-735/77, 4-5=-1271/78,

5-6=-1911/63, 6-7=-2117/37, 7-8=-2909/62, 8-9=-3765/66, 1-19=-1243/31,

9-10=-1339/50

BOT CHORD 18-19=-80/264, 3-16=-430/86, 15-16=0/1013, 14-15=0/1013, 13-14=0/1813, 12-13=0/2602,

11-12=-35/3242, 10-11=-21/320

WEBS 2-18=-1000/73, 16-18=-2/343, 2-16=-3/1045, 4-16=-756/51, 4-14=-8/852,

5-14=-1094/122, 5-13=0/477, 7-13=-855/90, 7-12=0/367, 8-12=-718/51, 8-11=0/555,

1-18=-55/1060. 9-11=-18/3037

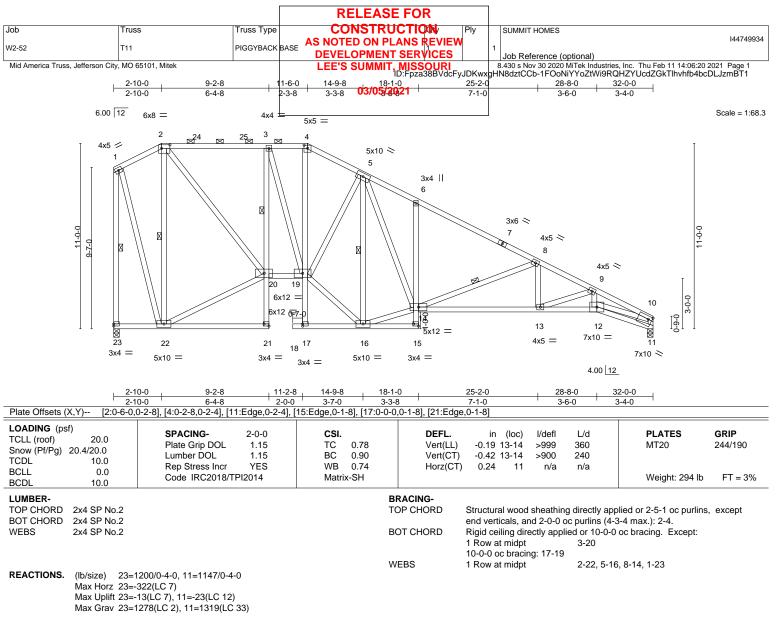
NOTES-

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 10.
- 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.







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

TOP CHORD 1-2=-391/93, 2-24=-1097/28, 24-25=-1097/28, 3-25=-1096/28, 3-4=-1253/41,

4-5=-1460/31, 5-6=-2021/134, 6-7=-1963/57, 7-8=-2072/30, 8-9=-2950/53,

9-10=-3761/55, 1-23=-1263/18, 10-11=-1346/49

BOT CHORD 22-23=-80/264, 3-20=-711/101, 19-20=0/1096, 4-19=0/495, 6-14=-492/140, 13-14=0/2650,

12-13=-24/3238, 11-12=-22/329

WFBS 2-22=-1087/16, 20-22=0/402, 2-20=0/1255, 3-19=-50/585, 16-19=0/1596, 5-19=-27/300,

5-16=-1335/0, 14-16=0/1210, 5-14=-73/1398, 8-14=-961/96, 8-13=0/377, 9-13=-677/45,

9-12=0/545, 1-22=-48/1093, 10-12=-6/3022

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 8) Bearing at joint(s) 11 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) 23, 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.





 $3x4 = 2x4 \parallel 2x4 \parallel 2x4 \parallel 2x4 \parallel 2x4 \parallel 5x6 = 2x4 \parallel 2x4 \parallel 2x4 \parallel$ 2x4 || 2x4 || 2x4 || 2x4 || 2x4 || 2x4 || 32-0-0 32-0-0 Plate Offsets (X,Y)-- [3:0-3-0,0-2-0], [8:0-3-0,0-2-0], [20:Edge,0-3-8]

29

28

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21

LOADING (psf) TCLL (roof) 20.0 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 0.50 BC 0.25 WB 0.17	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 21	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-R						Weight: 274 lb	FT = 3%

LUMBER-BRACING-

35

34

33

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

end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8.

2x4 SP No.2 **BOT CHORD WEBS** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 WEBS 1 Row at midpt

32 31 30

1-38, 2-37, 4-36, 5-35, 6-34, 7-33, 9-31, 10-30, 11-29

REACTIONS. All bearings 32-0-0.

Max Horz 38=-321(LC 9) (lb) -

38

37

36

Max Uplift All uplift 100 lb or less at joint(s) 38, 21, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23

except 22=-121(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 38, 21, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

TOP CHORD 18-19=-254/63, 19-20=-300/89

BOT CHORD 37-38=-80/263, 36-37=-80/263, 35-36=-80/263, 34-35=-80/263, 33-34=-80/263,

32-33=-80/263, 31-32=-80/263, 30-31=-80/263, 29-30=-80/263, 28-29=-80/263, 27-28=-80/263, 26-27=-80/263, 25-26=-80/263, 24-25=-80/263, 23-24=-80/263,

22-23=-80/263 21-22=-80/263

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 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.
- 5) Unbalanced snow loads have been considered for this design
- 6) Provide adequate drainage to prevent water ponding
- 7) Plates checked for a plus or minus 3 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 21, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23 except (jt=lb) 22=121.
- 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.



February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749936 S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V1 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:08 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-TH5rrc4?muSTL_tieTu?WLZ0_bBp7Fs5Aw_cAGzmZvv 11-10-11 03/05/2021 5-11-6 5-11-6 Scale = 1:20.4 4x5 = 2 6.00 12

2x4 ||

0.74

CSI.

TC

11-10-11 11-10-11

DEFL.

TOP CHORD

Vert(LL)

I/defI

n/a

n/a

n/a

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

(loc)

3

n/a

L/d

999

999

n/a

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

Lumber DOL 1.15 ВС 0.20 Vert(CT) n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P **BCDL** 10.0 LUMBER-**BRACING-**

2-0-0

1.15

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

LOADING (psf)

Snow (Pf/Pg) 15.4/20.0

TCLL (roof)

3x5 /

20.0

BOT CHORD

REACTIONS. 1=11-10-11, 3=11-10-11, 4=11-10-11 (size) Max Horz 1=30(LC 8) Max Uplift 1=-22(LC 11), 3=-27(LC 12)

Max Grav 1=247(LC 15), 3=247(LC 16), 4=422(LC 2)

SPACING-

Plate Grip DOL

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

2-4=-289/47 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



3x5 >

PLATES

Weight: 39 lb

MT20

GRIP

244/190

FT = 3%





RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749937 DEVELOPMENT SERVICES
LEE'S STIMMENT **AS NOTED ON PLANS** W2-52 V2 Valley DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:15 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-md0UJ?AO72LTh2w2YRWelqMLuQcLGQy7nWBTwMzmZvo 03/05/2021 3-11-6 3-11-6 Scale = 1:14.6 4x4 = 6.00 12 3x4 🖊 2x4 || 3x4 ≥ 7-10-11 7-10-3

LUMBER-

REACTIONS.

LOADING (psf)

Snow (Pf/Pg) 15.4/20.0

TCLL (roof)

TCDL

BCLL

BCDL

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

20.0

10.0

0.0

10.0

OTHERS 2x4 SP No.2

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-P

0.25

0.08

0.02

BRACING-TOP CHORD BOT CHORD

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

L/d

999

999

n/a

PLATES

Weight: 25 lb

MT20

GRIP

244/190

FT = 3%

I/defI

n/a

n/a

n/a

(loc)

3

n/a

n/a

0.00

1=7-9-11, 3=7-9-11, 4=7-9-11 (size) Max Horz 1=19(LC 8)

Max Uplift 1=-14(LC 11), 3=-17(LC 12)

Max Grav 1=156(LC 15), 3=156(LC 16), 4=263(LC 2)

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

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



February 11,2021

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749938 S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V3 Valley DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:16 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-EqatWLB0uLTKICUE691tr1uZ5qzq?tYH?Aw1SpzmZvn 3-10-11 03/05/2021 1-11-6 1-11-6 Scale = 1:7.5 2 6.00 12 3

> 3x4 / 3x4 ≥

3-10-11

1 1010 0110010 (71,1) [2.0	L 0,Luguj			
LOADING (psf) TCLL (roof) 20.0 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 0.03 BC 0.06 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/19 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	90
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P	Weight: 10 lb FT	= 3%
BCDL 10.0	Code INC2010/1712014	IVIALITX-F	Weight. To b	= 370

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

Plate Offsets (X Y)--

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-10-11 oc purlins.

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

REACTIONS. 1=3-9-11, 3=3-9-11 (size)

Max Horz 1=-8(LC 7)

[2:0-2-0 Edge]

Max Uplift 1=-1(LC 11), 3=-1(LC 12) Max Grav 1=105(LC 2), 3=105(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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



February 11,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 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

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749939 S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V4 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:16 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-EqatWLB0uLTKICUE691tr1uVSqyH?taH?Aw1SpzmZvn 03/05/2021 8-6-6 2-7-0 Scale = 1:30.4 3 2x4 || 7.00 12 2x4 || 3-5-10 3x5 / 5 2x4 || 6 2x4 || 2x4 || 11-1-6 11-1-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 0.26 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) 999 n/a n/a TCDI 10.0

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2 BRACING-TOP CHORD

Horz(CT)

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

n/a

except end verticals.

-0.00

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

5

n/a

REACTIONS. All bearings 11-1-6.

Max Horz 1=134(LC 8) (lb) -

0.0

10.0

Max Uplift All uplift 100 lb or less at joint(s) 5, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=406(LC 22)

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

Rep Stress Incr

Code IRC2018/TPI2014

WEBS 2-7=-313/130

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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-P

0.06

- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 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: 49 lb

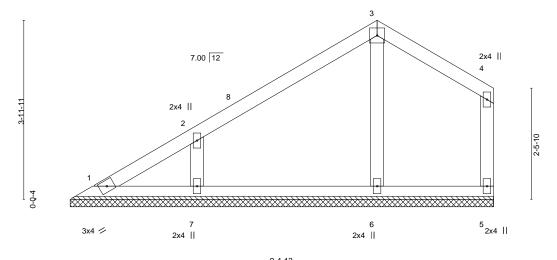
FT = 3%

February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749940 S NOTED ON PLANS REVIEW DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V5 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:17 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-i08FkhBfffbBwM3QgsY6OFRhYDI0kK9QEgga?FzmZvm 03/05/2021 6-9-13 2-7-0 Scale = 1:25.6 4x4



		3- 1- 1	10	
LOADING (psf) TCLL (roof) 20.0 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 0.24 BC 0.06 WB 0.04	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/1 Vert(CT) n/a - n/a 999 Horz(CT) - 0.00 5 n/a n/a <th></th>	
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Γ = 3%

LUMBER-BRACING-

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

REACTIONS. All bearings 9-4-13. Max Horz 1=102(LC 8) (lb) -

2x4 SP No.2

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=335(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-7=-262/109 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7.
- 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.

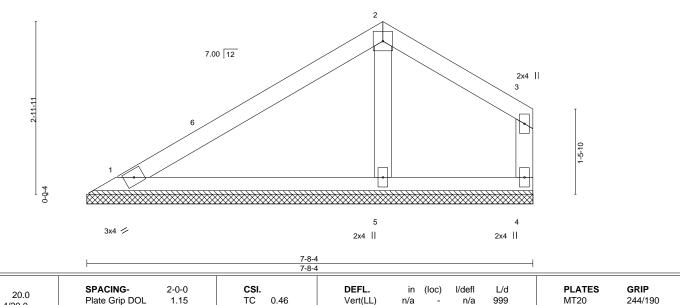


February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749941 AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES W2-52 V6 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:18 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-BCidx1CHPzj2YWedEa3LwSzovdeQTmXZTUP7XhzmZvl 03/05/2021 5-1-3 2-7-0 Scale = 1:19.9 4x4 =



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

except end verticals.

-0.00

LUMBER-

LOADING (psf)

Snow (Pf/Pg) 15.4/20.0

TCLL (roof)

TCDI

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

10.0

0.0

10.0

2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2

REACTIONS.

(size) 1=7-8-4, 4=7-8-4, 5=7-8-4

Max Horz 1=70(LC 8)

Max Uplift 1=-14(LC 11), 4=-24(LC 12)

Max Grav 1=174(LC 15), 4=107(LC 16), 5=305(LC 2)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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

1.15

YES

ВС

WB

Matrix-P

0.12

0.03

- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



Weight: 29 lb

FT = 3%

February 11,2021

999

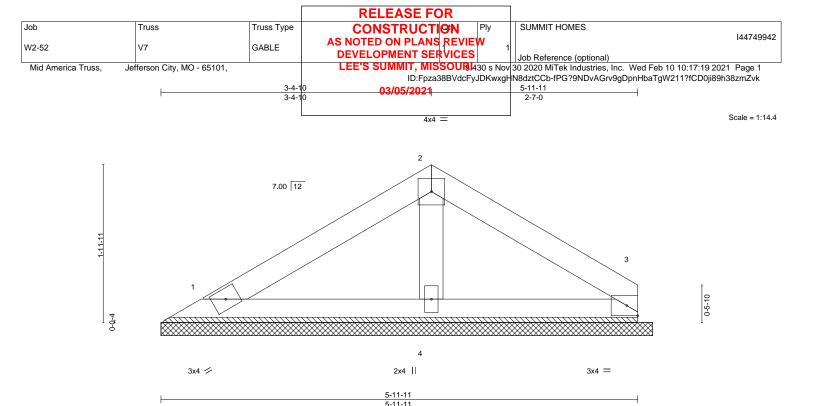
n/a

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

n/a

n/a

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



LUMBER-

LOADING (psf)

Snow (Pf/Pg) 15.4/20.0

TCLL (roof)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

20.0

10.0

0.0

10.0

2x4 SP No.2 **OTHERS**

BRACING-

TOP CHORD BOT CHORD

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Structural wood sheathing directly applied or 5-11-11 oc purlins.

L/d

999

999

n/a

PLATES

Weight: 20 lb

MT20

GRIP

244/190

FT = 3%

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

(loc)

3

n/a

n/a

0.00

I/defl

n/a

n/a

n/a

REACTIONS.

1=6-1-15, 3=6-1-15, 4=6-1-15 (size) Max Horz 1=-35(LC 7) Max Uplift 1=-12(LC 11), 3=-15(LC 12)

Max Grav 1=136(LC 15), 3=125(LC 16), 4=207(LC 2)

SPACING-

Plate Grip DOL

Rep Stress Inci

Code IRC2018/TPI2014

Lumber DOL

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 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

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-P

0.18

0.05

0.02

- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.







RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749943 S NOTED ON PLANS REVIE DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V8 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:20 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-7bqNMiEXxazmnqo?L?6p?t39nRKVxeJswnuEbazmZvj 7-7-7 7-7-7 03/05/2021 8-8-0 Scale = 1:43.3 2x4 || 2x4 || 2x4 || 4x5 = 4x5 = 3 6.00 12 2x4 || 3-9-11 2 3x5 / 12 11 10 9 2x4 | 4x4 = 2x4 || 2x4 || 2x4 ||

TCLL (roof) 20.0 Plate Grip DOL TC 1.15 0.43 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.08 TCDI 10.0 Rep Stress Incr YES WB 0.14 **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P **BCDL** 10.0

2-0-0

SPACING-

DEFL. I/defI L/d (loc) Vert(LL) 999 n/a n/a Vert(CT) 999 n/a n/a Horz(CT) -0.00 8 n/a n/a

GRIP

244/190

PLATES

MT20

Weight: 91 lb FT = 3%

LUMBER-

LOADING (psf)

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2 BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. All bearings 17-10-0

Max Horz 1=236(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 12, 11, 10, 9

Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 12=398(LC 33), 11=319(LC 2), 10=378(LC 35),

CSI.

9=270(LC 2)

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

WEBS 2-12=-320/105, 5-10=-296/93

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 12, 11, 10, 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.



February 11,2021



RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749944 S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V9 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:21 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-bnNma2F9iu5dPzNCvid2Y5blQrf2g6J09Reo80zmZvi 15-1 03/05/2021 1-2-0 8-8 2x4 | Scale = 1:36.8 2x4 || 5 2x4 | 4x5 = 6.00 12 4x5 = 2 2-0-11 3x5 / 72x4 8 10 9 4x4 2x4 || 2x4 || 15-1-7 15-0-15 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES GRIP** CSI. (loc) TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 244/190 1.15 TC 0.57 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) 999 n/a n/a

LUMBER-BRACING-

Code IRC2018/TPI2014

YES

WB

Matrix-P

0.09

Rep Stress Incr

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

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

-0.00

Horz(CT)

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

n/a

n/a

6-0-0 oc bracing: 1-10

REACTIONS. All bearings 15-0-15.

10.0

0.0

10.0

Max Horz 1=198(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 10, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=391(LC 2), 9=372(LC 35), 8=272(LC 2)

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

WEBS 4-9=-296/93

NOTES-

TCDI

BCLL

BCDL

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10, 9, 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.



Weight: 73 lb

FT = 3%

February 11,2021

RELEASE FOR Job Truss Truss Type SUMMIT HOMES CONSTRUCTION 144749945 S NOTED ON PLANS REVIEW DEVELOPMENT SERVICES **AS NOTED ON PLANS** W2-52 V10 **GABLE** DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:09 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-xTfD2y5dXCaKz7SuCBPE3Z6KM?aAsiwFOak9ijzmZvu 12-9-7 03/05/2021 2-11-7 1-2-8-8-0 2x4 || Scale = 1:30.0 2x4 | 5 2x4 || 4x5 = 6.00 12 4x5 || 2 1-5-11 0-10-11 10 3x5 / 3x5 < 2x4 || 2x4 || 2x4 || 2x4 || 12-9-7 12-8-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 1.15 0.19 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 58 lb FT = 3% **BCDL** 10.0

LUMBER-TOP CHORD

2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.2 WEBS

OTHERS 2x4 SP No.2

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BRACING-

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

REACTIONS. All bearings 12-8-15

Max Horz 1=159(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 11, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 10, 7, 11 except 9=337(LC 35), 8=271(LC 2)

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

WEBS 4-9=-268/91

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 11, 9, 8.
- 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.



February 11,2021



Job Truss Truss Type W2-52 V11 **GABLE**

Jefferson City, MO - 65101,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

SUMMIT HOMES

144749946

DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:10 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHlN8dztCCb-PgDbGl6GIVjBaH14muwTbmeTyPvub9ROdETiF9zmZvt

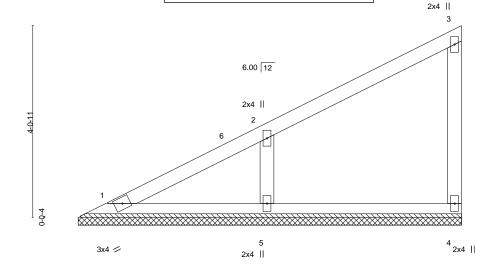
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

03/0<mark>5/2</mark>021

Scale = 1:24.4



LOADING (psf) TCLL (roof) 20.0 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 0.10 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a -0.00	oc) l/defl - n/a - n/a 4 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	, ,				Weight: 32 lb	FT = 3%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Mid America Truss,

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS

OTHERS 2x4 SP No.2

(size) 1=8-1-7, 4=8-1-7, 5=8-1-7

Max Horz 1=121(LC 8)

Max Uplift 4=-14(LC 8), 5=-53(LC 11)

Max Grav 1=102(LC 23), 4=159(LC 15), 5=420(LC 15)

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

2-5=-327/108 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 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.



February 11,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Job Truss Truss Type SUMMIT HOMES 144749947 DEVELOPMENT SERVICES
LEE'S STIMMENT **AS NOTED ON PLANS** W2-52 V12 Valley DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:11 2021 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-usn_Td7u3pr2CRcHJcRi8_BYapDDKclYsuDGnbzmZvs 03/0<mark>5/2</mark>021

2x4 ||

Structural wood sheathing directly applied or 5-9-7 oc purlins,

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

except end verticals.

2 6.00 12 0-0-4 2x4 || 3x4 /

LOADING (psf) TCLL (roof) 20.0 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 0.66 BC 0.22 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	, ,					Weight: 21 lb	FT = 3%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

REACTIONS. 1=5-8-15, 3=5-8-15 (size)

Max Horz 1=83(LC 8) Max Uplift 1=-3(LC 11), 3=-19(LC 11) Max Grav 1=239(LC 15), 3=249(LC 15)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 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.



Scale = 1:17.7



Job Truss Truss Type W2-52 V13 **GABLE**

Jefferson City, MO - 65101,

RELEASE FOR CONSTRUCTION S NOTED ON PLANS REVIED DEVELOPMENT SERVICES **AS NOTED ON PLANS**

SUMMIT HOMES

144749948

2x4 ||

DEVELOPMENT SERVICES | Job Reference (optional)

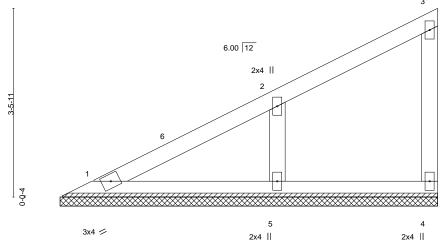
LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:11 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHN8dztCCb-usn_Td7u3pr2CRcHJcRi8_BfkpFZKckYsuDGnbzmZvs

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

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

except end verticals.

Scale = 1:21.2



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 0.20 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 27 lb FT = 3% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Mid America Truss,

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.2 WEBS

OTHERS 2x4 SP No.2

(size) 1=6-11-7, 4=6-11-7, 5=6-11-7

Max Horz 1=102(LC 8)

Max Uplift 4=-11(LC 8), 5=-45(LC 11)

Max Grav 1=106(LC 23), 4=100(LC 15), 5=372(LC 15)

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

WEBS 2-5=-294/91

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 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.



February 11,2021



Job Truss Truss Type W2-52 V14 **GABLE**

Jefferson City, MO - 65101,

Mid America Truss,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

SUMMIT HOMES

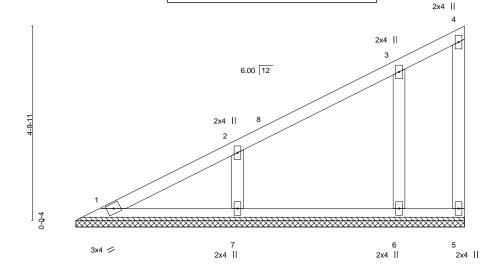
144749949

DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:12 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHlN8dztCCb-M2LMhz8Wq7zuqbBTtJzxhBkqPCba32Wh5YypJ2zmZvr

03/<u>05/</u>2021

Scale = 1:28.5



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) 999 244/190 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) -0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 43 lb FT = 3% **BCDL** 10.0

BOT CHORD

LUMBER-BRACING-

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

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

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

REACTIONS. All bearings 9-7-7. Max Horz 1=146(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=340(LC 2), 6=335(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-7=-255/100, 3-6=-269/76 WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 11,2021



Job Truss Truss Type W2-52 V15 **GABLE**

Jefferson City, MO - 65101,

Mid America Truss,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIED DEVELOPMENT SERVICES

SUMMIT HOMES

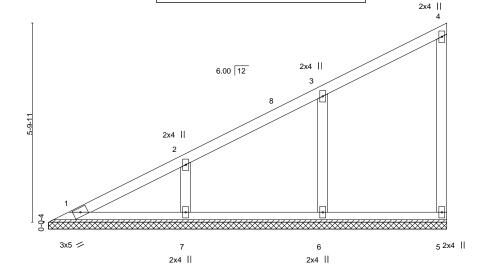
144749950

DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:13 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHN8dztCCb-qFvkuJ88bQ5lRlmfR1UADPG?fcxsoVcqJCiNrUzmZvq

03/05/2021

Scale = 1:33.6



LOADING (psf) TCLL (roof) 20.0 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 0.23 BC 0.08 WB 0.08	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - -0.00 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P	` ′				Weight: 51 lb	FT = 3%
BCDL 10.0								

LUMBER-BRACING-

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

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

2x4 SP No.2 REACTIONS. All bearings 11-7-7. (lb) -

Max Horz 1=178(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=326(LC 2), 6=389(LC 15)

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

3-6=-306/97 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 11,2021



Job Truss Truss Type W2-52 V16 **GABLE**

Jefferson City, MO - 65101,

Mid America Truss,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

SUMMIT HOMES

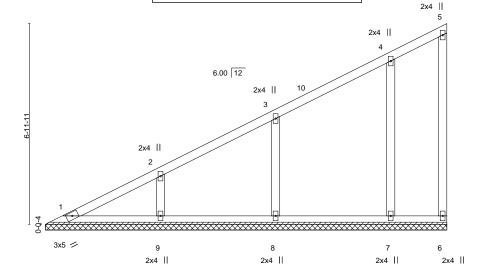
144749951

DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:14 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHN8dztCCb-IRS66f9mMkDc3vLr?k?Pmcp8T0G6Xxg_YsRwOwzmZvp

03/05/2021

Scale = 1:40.0



LOADING (psf) TCLL (roof) 20.0 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 0.36 BC 0.08 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a -0.00	oc) I/defl - n/a - n/a 6 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	110.2(01)	0.00	· ., a	.,, ۵	Weight: 68 lb	FT = 3%

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.2

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

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

REACTIONS. All bearings 13-11-7.

Max Horz 1=217(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 9=326(LC 2), 8=330(LC 2), 7=337(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 4-7=-269/78

WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9, 8, 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.



February 11,2021



Job Truss Truss Type W2-52 V17 **GABLE**

Jefferson City, MO - 65101,

Mid America Truss,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

SUMMIT HOMES

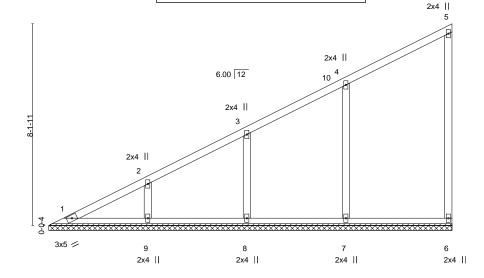
144749952

DEVELOPMENT SERVICES | Job Reference (optional)

LEE'S SUMMIT, MISSOUR 430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 10 10:17:14 2021 Page 1 ID:Fpza38BVdcFyJDKwxgHN8dztCCb-IRS66f9mMkDc3vLr?k?Pmcp5z0GnXx9_YsRwOwzmZvp

0<mark>3/95/2021</mark>

Scale = 1:46.5



LOADING (psf) TCLL (roof) 20.0 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 0.52 BC 0.10 WB 0.19	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (I n/a n/a -0.00	(loc) - - 6	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P	` ′					Weight: 77 lb	FT = 3%
BCDL 10.0	Code 11(C2010/11 12014	IVIAUIX-I						Weight. 77 ib	11 = 370

LUMBER-BRACING-

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

2x4 SP No.2 2x4 SP 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.

REACTIONS. All bearings 16-3-7.

Max Horz 1=255(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 9=332(LC 2), 8=305(LC 2), 7=421(LC 15)

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

4-7=-328/109 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 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) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9, 8, 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.



February 11,2021

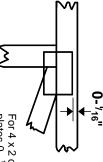


Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

REVIEUS Plate location details available in MiTek 20/20

NOTED ON PLANS Software or upon request.

SOUTED ON PLANS SIZE

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

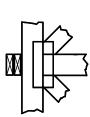
RELEASE FOR CONSTRUCTION

LATERAL BRACING LOCATION



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

BEARING



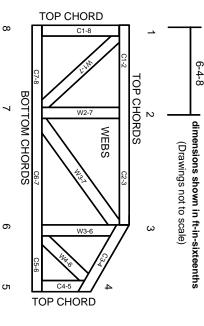
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal **Building Component Safety Information** Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

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

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

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.