

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

03/11/2021

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

Re: H3-90

SUMMIT HOMES

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

Pages or sheets covered by this seal: I44715924 thru I44715976

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

Missouri COA: Engineering 001193



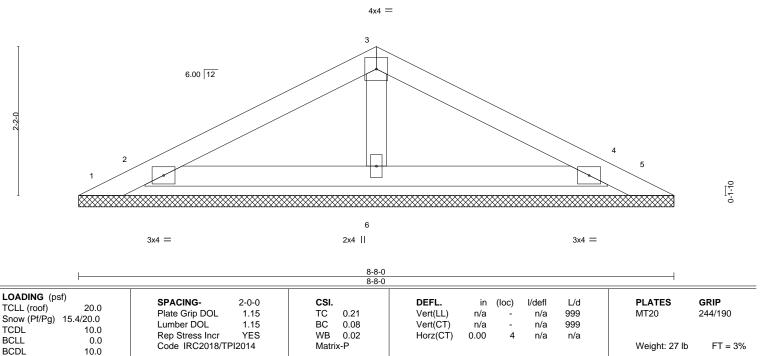
February 9,2021

Sevier, Scott

,Engineer

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

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 C₁ **GABLE** 20 **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-rvUxif5?lbinNkc4tO?B?OX7cWPDF3COWsxSdYznB6W 03/11/2021 4-4-0 4-4-0 Scale = 1:16.8



BRACING-

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2

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

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)

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

NOTES-

TCDI

BCLL

BCDL

LUMBER-

- 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.



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

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

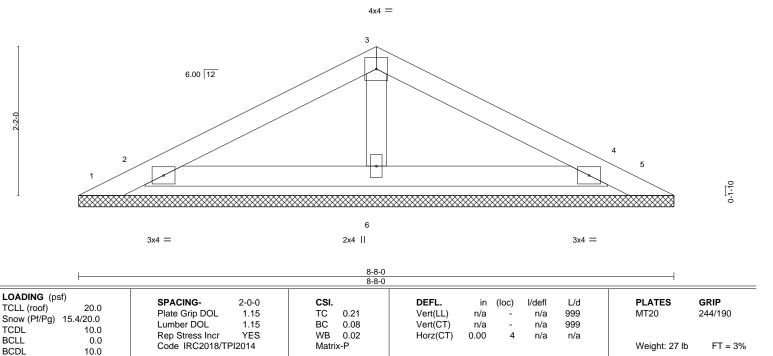
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RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 C1GE **GABLE** 2 **DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Section Services Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-olbi7K7FHC_Vd1mT_p1f4pcT5J4hjzih_AQYhRznB6U 03/11/2021 4-4-0 4-4-0 Scale = 1:16.8



LUMBER-BRACING-

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

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

REACTIONS. All bearings 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)

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) 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.



February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 CJ1 Diagonal Hip Girder 2 **DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Section Services Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-olbi7K7FHC_Vd1mT_p1f4pcRsJ?Ojz_h_AQYhRznB6U 6-10-5 4 03/11/2021 1-2-14 6-10-5 Scale = 1:18.6 3x4 L Special 4.24 12 0-6-0 4 Special Special 2x4 || 6-10-5 LOADING (psf) SPACING-2-0-0 DEFL. I/defI **PLATES GRIP** CSI. (loc) L/d

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

-0.12

-0.00

2-4

2-4

except end verticals.

4

>999

>676

n/a

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

360

240

n/a

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

LUMBER-

TCLL (roof)

TCDI

BCLL

BCDL

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

20.0

10.0

0.0

10.0

WEBS 2x4 SP No.2

Snow (Pf/Pg) 15.4/20.0

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.

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

- 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

1.15

1.15

NO

TC

ВС

WB

Matrix-P

0.35

0.42

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, 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)



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244/190

FT = 3%

MT20

Weight: 35 lb





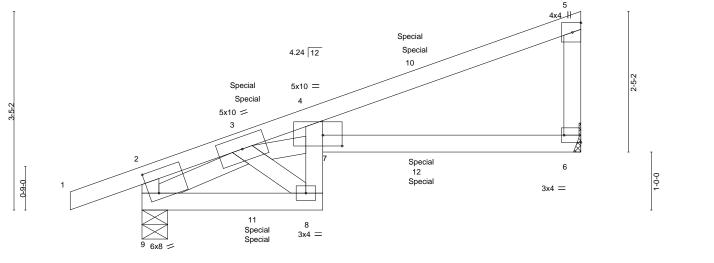
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 CJ2 Diagonal Hip Girder 2 **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-kgjSY08WpqEDsLwr6E489Ehdp7c3BrO_RUvfmJznB6S 7-6-12 03/11/2021 1-2-14 1-6-11 6-0-1 Scale = 1:19.9 5



7-6-12

Structural wood sheathing directly applied or 4-10-14 oc purlins,

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) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.96 BC 0.73	DEFL. in (loc) l/defl L/d Vert(LL) -0.17 6-7 >512 360 Vert(CT) -0.28 6-7 >309 240	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.13 Matrix-SH	Horz(CT) 0.10 6 n/a n/a	Weight: 36 lb FT = 3%
BCDL 10.0	Oue 11.02010/1712014	IVIALITY-SIT		vveignt. 30 ib F1 = 3/6

TOP CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 **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)



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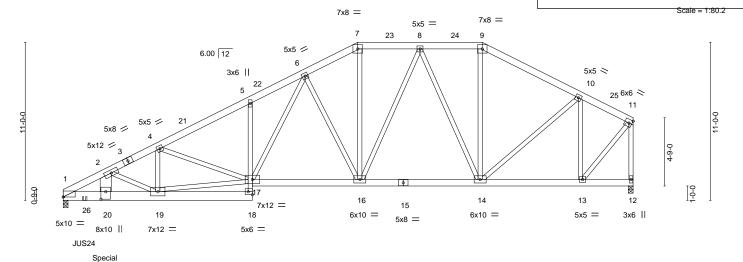


Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job Truss Truss Type Qty Ply SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 GR1 PIGGYBACK BASE GIRDE **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-8FPbA2BO6kcnjpeQnMdrnsJC?KgTO00Q7R8JMeznB6P 39-8-03/11/2021 16-10-0 24-10-0 29-2-0 36-0-0 3-7-8 6-7-0 3-8-0 3-8-0 4-4-0 4-4-0 6-10-0 3-8-0



2-11-0	0-7-0	13-2-0	20-0-0	29-2-0	30-0-0	1 39-0-0 1	
2-11-8	3-7-8	6-7-0	7-4-0	8-8-0	6-10-0	3-8-0	
Plate Offsets (X,Y) [1:0-0-0	,0-0-1], [18:Ec	lge,0-2-8], [20:0-6-4,0-4-0	0]				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	Lumbe	## 2-0-0 Grip DOL	CSI. TC 0.65 BC 0.55 WB 0.85	DEFL. in (lor Vert(LL) -0.14 16-1 Vert(CT) -0.27 16-1 Horz(CT) 0.09 1	7 >999 360	PLATES MT20	GRIP 244/190
BCDI 10.0	Code	IRC2018/TPI2014	Matrix-SH			Weight: 726 lb	FT = 3%

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. (size) 1=0-4-0 (req. 0-5-7), 12=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, 2-4=-8756/0, 4-5=-5798/0, 5-6=-5801/0, 6-7=-3234/0, 7-8=-2843/0,

8-9=-1961/0, 9-10=-2325/0, 10-11=-1470/0, 5-17=-454/142, 11-12=-2290/0

BOT CHORD 1-20=0/13176, 19-20=0/13176, 18-19=0/1067, 16-17=0/3767, 14-16=0/2408,

13-14=0/1283 WEBS 2-20=0/6626, 2

EBS 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

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 OR THE BUILDING DESIGNER.

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

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

except end verticals. Except:

10-0-0 oc bracing: 17-18

NOTES-

WEBS

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) 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 JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-6-0 from 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.

Oantinued on backer where hanger is in contact with lumber.



RELEASE FOR

February 9,2021

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

Design palaritetes and READ NOTES ON FIRS AND INCLODED MITER REFERENCE PAGE MIT 47 Set. 3 19/2202 BEFORE USE.

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

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



Job Truss Truss Type Qty Ply SUMMIT HOMES GR1 PIGGYBACK BASE GIRDE H3-90

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEWS **DEVELOPMENT SERVICES**

2 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc. Little 8-8 Little 124 Little 1

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-8FPbA2BO6kcnjpeQnMdrnsJC?KgTO00Q7R8JMeznB6P

Mid America Truss, Jefferson City, MO - 65101,

13) 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 characteristic forms and connection device(s) is the responsibility of others. 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)



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 H1 Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Later SeSUMMART27MISSOURI Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Zq4jp3DGPf_MaGN?SVAYOVxfwYewbVdtqPMzzzznB6M 0-10-8 13-10-4 1-1-12 | 0\frac{5}{9}-9\frac{9}{2}\frac{2}{5}-10-8 0-10-8 9-6-12 1-1-12 1-1-12 3-1-12 3-1-12

5x5 =5x6 = 5 6 6.00 12 18 6x10 = 6x10 =4x12 🗸 4x12 > ПП 14 13 19 7x8 5x5 = JUS24 Special Special 16 11 3x4 = 3x5 II 3x4 = 3x5 ||

2-3-8	5-5-4	9-6-12	12-8-8	15-0-0
2-3-8	3-1-12	4-1-8	3-1-12	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], [14:0-4-0,0-3-4]		
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 NO	BC 0.82 Ver WB 0.34 Hor	t(LL) -0.14 14-15 >999 36 t(CT) -0.23 14-15 >768 2 ²	40 //a
BCDI 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 159 lb FT = 3%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

14-15,12-13: 2x4 SP No.1, 13-14: 2x6 SP No.1

WEBS 2x4 SP No.2

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

WEBS 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 Continuing Property and Con



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

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

Scale = 1:27.7

February 9,2021



Design palaritetes and READ NOTES ON FIRS AND INCLODED MITER REFERENCE PAGE MIT 47 Set. 3 19/2202 BEFORE USE.

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

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



Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-90	Н1	Hip Girder	1	2	

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Mid America Truss, Jefferson City, MO - 65101,

2 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc. Late: 8e8 Late: 74 153 244 ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Zq4jp3DGPf_MaGN?SVAYOVxfwYewbVdtqPMzzzznB6M

NOTES12) 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 connect 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

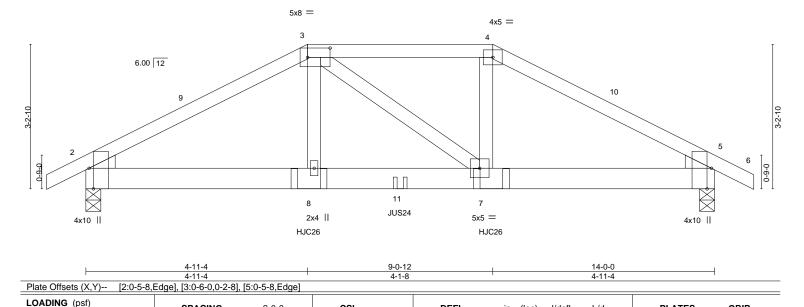
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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)



CSI.

0.40

0.25

0.09

TC

BC

WB

Matrix-P

(loc)

7-8

7-8

5

-0.02

-0.04

0.01

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 6-0-0 oc purlins.

PLATES

Weight: 148 lb

MT20

GRIP

244/190

FT = 3%

DEFL

BRACING-

TOP CHORD

BOT CHORD

Vert(LL)

Vert(CT)

Horz(CT)

LUMBER-

TCLL (roof)

TCDL

BCLL

BCDL

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

Snow (Pf/Pg) 20.4/20.0

WEDGE

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

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

20.0

10.0

10.0

0.0

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.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

NO

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.
- 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.





February 9,2021



Job Truss Truss Type Qty Ply SUMMIT HOMES H3-90 H2 Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-VDCUDIEXwHE4paXOawD0Uw07VLTN3T69Hjr42sznB6K

Mid America Truss,

03/11/2021
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)

Jefferson City, MO - 65101,

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)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty SUMMIT HOMES H3-90 J1 Jack-Closed 3

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summariza (1984) Services

03/11/2021

PLATES

Weight: 22 lb

MT20

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

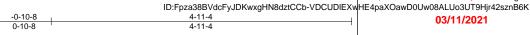
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

GRIP 244/190

FT = 3%

Scale = 1:18.9



2x6 II 6.00 12 2x4 ||

4-11-4

TOP CHORD

BOT CHORD

LOADING (psf)								
4 /	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL)	-0.01	4-5	>999	360	
Snow (Pf/Pg) 15.4/20.0	·		/					
	Lumber DOL 1.15	BC 0.16	Vert(CT)	-0.03	4-5	>999	240	
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a	
BCLL 0.0			1.0.2(0.1)	0.00				
RCDI 10.0	Code IRC2018/TPI2014	Matrix-R						

LUMBER-BRACING-

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

Mid America Truss,

5=0-4-0, 4=Mechanical (size) Max Horz 5=99(LC 10)

Jefferson City, MO - 65101,

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-

REACTIONS.

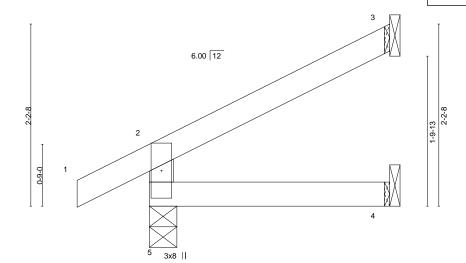
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 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 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 J2 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6UMIMIT30UIS60URI Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-zPmsR5F9haMxRk6a8dkF07ZNmlsioxiJWNbealznB6J -0-10-8 2-10-15 03/11/2021 2-10-15 0-10-8



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

2-10-15

LUMBER-BRACING-

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 9,2021



Job Truss Truss Type Qty SUMMIT HOMES H3-90 J3 Jack-Closed 3

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaria 1 Miss Selection

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

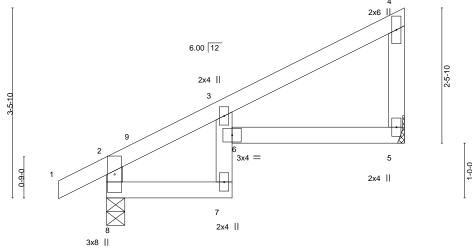
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

03/11/2021

Scale = 1:21.0





		2-3-8 2-3-8	5-5-4 3-1-12		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.37 BC 0.35 WB 0.00 Matrix-R	DEFL. in (loc) Vert(LL) -0.05 6 Vert(CT) -0.08 6 Horz(CT) 0.04 5	l/defl L/d >999 360 >787 240 n/a n/a	PLATES GRIP MT20 244/190 Weight: 24 lb FT = 3%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Mid America Truss,

2x4 SP No.2

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)

Jefferson City, MO - 65101,

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

TOP CHORD 2-8=-278/28

NOTES-

REACTIONS.

- 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) 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.

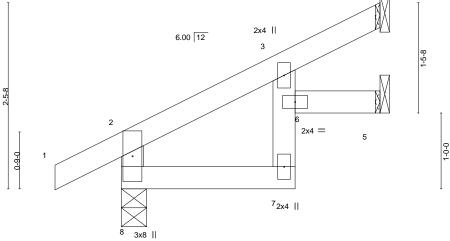


February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 J4 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaria 1 Miss Selection Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-RbKEeRGnSuUo3tgmhLFUZL6YR9AzXOySk1KB6kznB6l -0-10-8 3-4-15 03/11/2021 0-10-8 1-1-7 Scale = 1:15.2 2x4 || 6.00 12 3



LOADING (psf) SPACING-2-0-0 DEFL. in I/defI L/d **PLATES GRIP** CSI. (loc) TCLL (roof) 20.0 Plate Grip DOL Vert(LL) -0.01 360 244/190 1.15 TC 0.12 6 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) -0.01 >999 240 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 15 lb FT = 3% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> (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.

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) 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.



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

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

except end verticals.



Job Truss Truss Type Qty SUMMIT HOMES H3-90 J5 Jack-Open

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEWS **DEVELOPMENT SERVICES**

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaria 2015 Seal RI

Structural wood sheathing directly applied or 1-4-15 oc purlins,

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

except end verticals.

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-voucsnHPDCcfg1FzF2mj5YejYZXUGrCczh4kfBznB6H

03/11/2021

Scale = 1:10.2



6.00 12 2 1-0-13 0-6-0 3x8 ||

1-4-15

BRACING-

TOP CHORD

BOT CHORD

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 0.10 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 5 >999 360 Vert(CT) 0.00 5 >999 240 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 244/190
	Code IRC2018/TPI2014	Matrix-R		Weight: 7 lb FT = 3%
BCDL 10.0				

LUMBER-

Mid America Truss,

Jefferson City, MO - 65101,

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

BOT CHORD WEBS 2x4 SP No.2

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.

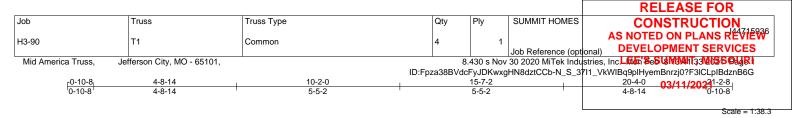
NOTES-

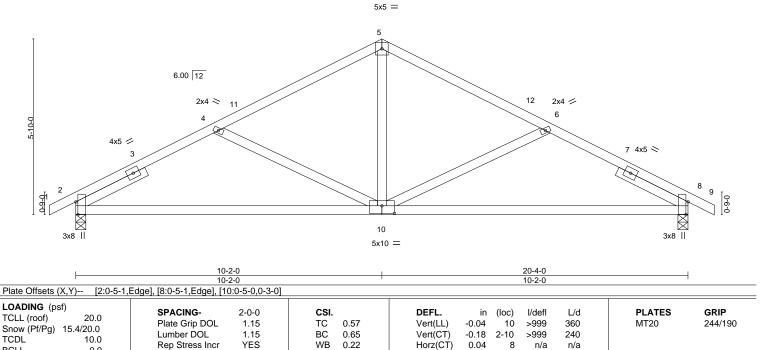
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 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.



February 9,2021







BRACING-

TOP CHORD

BOT CHORD

Matrix-SH

LUMBER-

BCLL

BCDL

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)

0.0

10.0

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.

Code IRC2018/TPI2014

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.



FT = 3%

Weight: 101 lb

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

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

February 9,2021



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

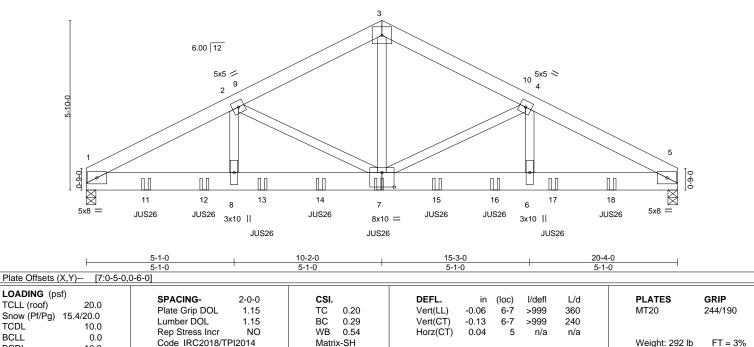


RELEASE FOR Job Truss Truss Type Qty Ply SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T1G Roof Special Girder **DEVELOPMENT SERVICES** | Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: \$65\text{WithIteluissell}\$ Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-VUkvoZSBw\/\psi\NgMBKf3_0?gVD4LCFhY2CgBsTU8NznB63 03/11/2021 5-1-0 5-1-0 Scale = 1:39.6

7x8 =

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

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



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL (roof)

TCDL

BCLL

BCDL

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

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

10.0

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



February 9,2021



MRNING - 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 Qty Ply SUMMIT HOMES H3-90 T1G Roof Special Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Mid America Truss,

Jefferson City, MO - 65101,

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-VUkvoZSBwVNgMBKf3_0?gVD4LCFhY2CgBsTU8NznB63

03/11/2021

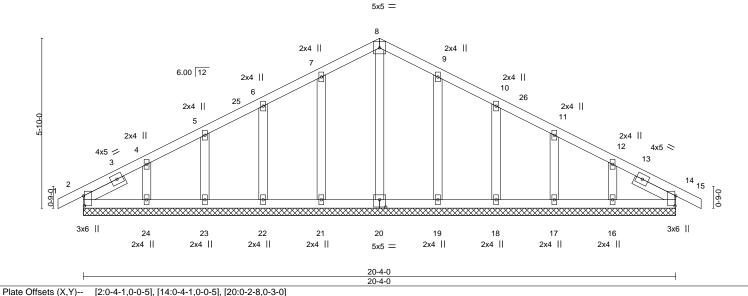
LOAD CASE(S) Standard

Concentrated Loads (lb)

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)

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEWS H3-90 T1GE Common Supported Gable **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summakity Auto Seale Inc. Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-zgIH?vSphpVX_LvrdiXECjmHGcf2HdypQWC1gpznB62 0-10-8 10-2-0 03/11/2<mark>012</mark>18 10-2-0 10-2-0



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 0.06 BC 0.03 WB 0.06	DEFL. in (loc) I/defl L/d PLATES Vert(LL) -0.00 14 n/r 120 MT20 Vert(CT) -0.00 14 n/r 90 Horz(CT) 0.00 14 n/a n/a	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH	Weight: 113 lb	FT = 3%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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.



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

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

Scale = 1:39.6

February 9,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T2 Roof Special 10 **DEVELOPMENT SERVICES** Job Reference (optional)

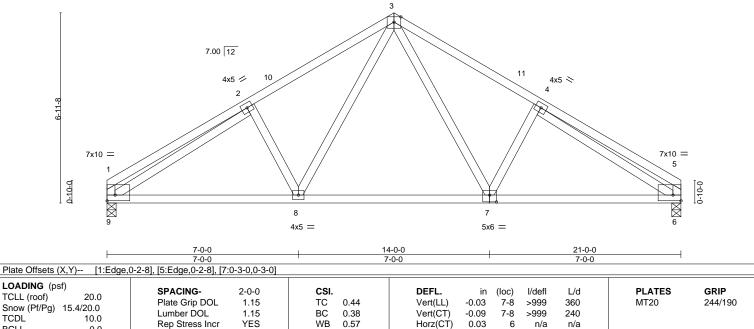
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: SeSUMMINITES PAURI Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-v3P2QbU4DQIEDe2El6ail8rYtPG_IPa6tqh8liznB60 15-9-0 03/11/2021 5-3-0 5-3-0 5-3-0



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

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

except end verticals.



BRACING-

TOP CHORD

BOT CHORD

Matrix-SH

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

WEBS

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 2x4 SP No.2

0.0

10.0

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

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%

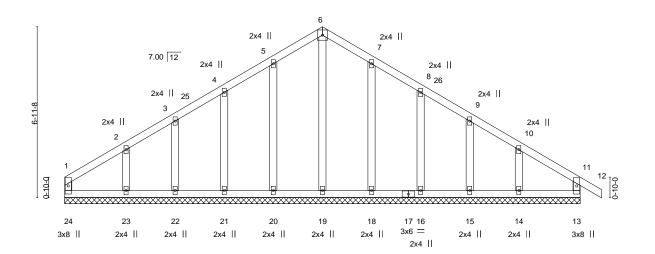
Weight: 119 lb

February 9,2021

Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T2GE Roof Special Supported Gable **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. I Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-sSXorHVkI10ySyCcsXcANZxzID?NDQSPL8AFqaznB6_ 21-**03**911/2021 10-6-0 10-6-0

5x5 =



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

21-0-0

BRACING-LUMBER-

2x4 SP No 2 TOP CHORD 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.

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.



RELEASE FOR

Scale = 1:46.9

February 9,2021

Job Truss Truss Type Qty SUMMIT HOMES Т3 H3-90 Piggyback Base 3

6-10-0

20-6-0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6UMIMITes 10155 044 RI

45-0-0

Structural wood sheathing directly applied, except end verticals.

4-19, 6-19, 6-18, 7-18

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

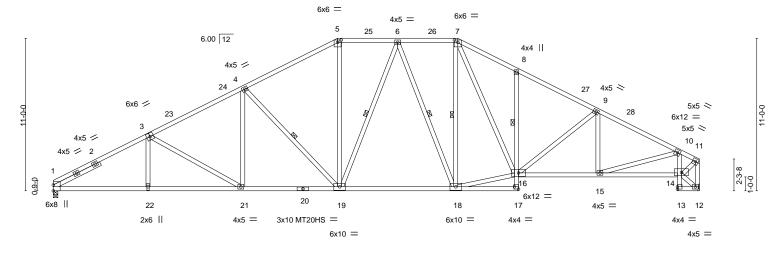
8-16

46-7-0₁

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-oqfYGyXaHfGgiGM?_yeeS_08U1VhhEkhoSfLtTznB5y yee5_060 45-0-0 <mark>03/11/202</mark>1 - - 242 29-2-0 33-6-8 4-4-8 5-8-12

FLAT TOP CHORD MUST BE BRACED WITH SHEATHING

Scale = 1:83.1



24-10-0

4-4-0

6-10-0	6-10-0 6-10-	0 . 8-	8-0	4-4-8	5-8-12	5-8-12 '1-7-0'	
Plate Offsets (X,Y) [5:0-3-0,	,0-2-0], [7:0-3-0,0-2-0], [17:Edge,0-2-0]						
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 0.79 BC 0.84 WB 0.49 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.21 19 -0.46 18-19 0.22 12	l/defl L/d >999 360 >999 240 n/a n/a	PLATES MT20 MT20HS Weight: 327 lb	GRIP 244/190 187/143 FT = 3%

BRACING-

WEBS

TOP CHORD

BOT CHORD

1 Row at midpt

1 Row at midpt

LUMBER-

Mid America Truss,

6-10-0

TOP CHORD 2x4 SP No.2 *Except*

6-10-0

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

Jefferson City, MO - 65101,

6-10-0

BOT CHORD 2x4 SP No.2 *Except*

1-20: 2x4 SP No.1 WEBS 2x4 SP No.2

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

REACTIONS. (size) 1=0-4-0, 12=Mechanical Max Horz 1=166(LC 8)

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 1-3=-3583/33, 3-4=-3173/53, 4-5=-2543/67, 5-6=-2145/87, 6-7=-2030/70, 7-8=-2936/109, 8-9=-2964/30, 9-10=-3143/9, 10-11=-1655/4, 11-12=-1945/0

BOT CHORD 1-22=-71/3060, 21-22=-72/3057, 19-21=0/2779, 18-19=0/2105, 8-16=-473/126,

15-16=0/2755, 14-15=-29/1564, 10-14=-1183/58

WEBS 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

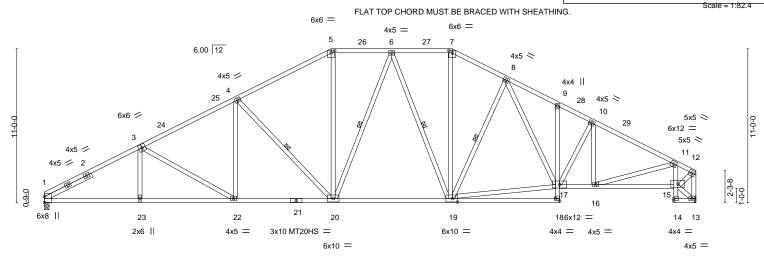
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate 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) 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) 1.
- 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 9,2021



Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T3A Piggyback Base **DEVELOPMENT SERVICES** Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Later Ses UMWHT55 105 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-kDnJheZqpGWOxZWN5Nh6XP5T?qBI97h_Gm8SyLznB5w 39-3-4 45-0-**03/11/263-0** 5-8-12 24-10-0 29-2-0 33-0-0 36-10-0 6-10-0 6-10-0 6-10-0 4-4-0 4-4-0 3-10-0 3-10-0 2-5-4



6-10-0 6-10-0		0-6-0 10-0	29-2-0 8-8-0	36-10-0 7-8-0	39-3-4	45-0-0 46-7-0 5-8-12 1-7-0	
	2-0], [7:0-3-0,0-2-0], [18:Edge,0-2-0		000	7 0 0	204	0012 170	
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	DEFL. Vert(LL) Vert(CT) Horz(CT)	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%

BRACING-

WEBS

TOP CHORD

BOT CHORD

1 Row at midpt

Structural wood sheathing directly applied, except end verticals.

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

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

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

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

BOT CHORD 2x4 SP No.2 *Except*

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

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

REACTIONS. (size) 1=0-4-0, 13=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 $1-3=-3583/33,\ 3-4=-3173/53,\ 4-5=-2542/67,\ 5-6=-2145/88,\ 6-7=-2031/69,\ 7-8=-2350/60,\ 3-4=-3173/53,\ 4-5=-2542/67,\ 5-6=-2145/88,\ 6-7=-2031/69,\ 7-8=-2350/60,\ 7-8=$

8-9=-3028/82, 9-10=-3046/40, 10-11=-3127/9, 11-12=-1657/4, 12-13=-1942/0

BOT CHORD 1-23=-71/3059, 22-23=-73/3057, 20-22=0/2779, 19-20=0/2105, 16-17=0/2733,

15-16=-32/1590, 11-15=-1196/64

WEBS 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

- 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) 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) 1.
- 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.



RELEASE FOR

February 9,2021



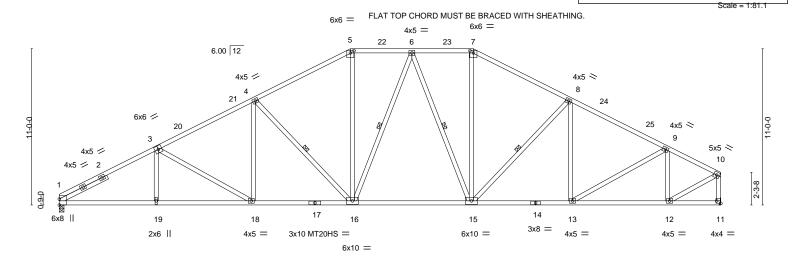
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 **T3B** Piggyback Base 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: SeSUMMINITES OUR Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-CPKhu_ZTZaeFZj5af5CL4ceeoEWTubC8UQu0UoznB5v 24-10-0 29-2-0 42-10-0 03/11/2021 6-10-0 6-10-0 6-10-0 4-4-0 4-4-0 6-10-0 6-10-0



0-10-0	0-10-0	0-0	0-0-0	0-10-0	6-10-0	3-9-0	
Plate Offsets (X,Y) [5:0-3-0,	0-2-0], [7:0-3-0,0-2-0], [11:Edge,0-2-0]						
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 Code IRC2018/TPI2014	CSI. TC 0.78 BC 0.84 WB 0.51 Matrix-SH	Vert(CT) -		L/d 360 240 n/a	MT20 MT20HS	GRIP 244/190 187/143 FT = 3%
BCDI 10.0	Code IRC2016/1712014	IVIALITX-SIT				Weight: 307 lb	FI = 3%

29-2-0

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*

6-10-0

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 WEBS 2x4 SP No.2

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

REACTIONS. (size) 1=0-4-0, 11=Mechanical Max Horz 1=166(LC 10)

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 $1-3=-3583/33,\ 3-4=-3173/53,\ 4-5=-2543/67,\ 5-6=-2145/87,\ 6-7=-2038/72,\ 7-8=-2421/50,\ 3-4=-3173/53,\ 4-5=-2543/67,\ 5-6=-2145/87,\ 6-7=-2038/72,\ 7-8=-2421/50,\ 7-8=-2421/50,\ 7-8=$

8-9=-2721/31, 9-10=-2048/7, 10-11=-1978/6

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

12-13=0/1814

WEBS 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-

- 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

20-6-0

- 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) 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) 1.
- 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.



42-10-0

Structural wood sheathing directly applied, except end verticals.

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

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

1 Row at midpt

February 9,2021

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



Job Truss Truss Type Qty SUMMIT HOMES H3-90 T3GE **GABLE**

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summarization (1985)

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-5BaCkMczdo8h1LOLuwGHESpVVr4JqTYjP2sDdZznB5r 29-2-0 8-8-0 17-5-0

03/11/2021

Scale = 1:95.0

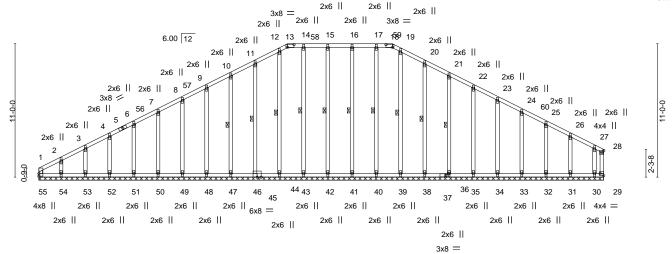


Plate Offsets (X,Y) [13:0-6-8	8,0-2-12], [18:0-6-8,0-2-12], [29:Edge,0-2	2-0], [37:0-2-8,0-1-8]						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.10 BC 0.08 WB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

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 except end verticals.

WEBS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 WEBS 10-47, 11-46, 12-44, 14-43, 15-42, 16-41, 1 Row at midpt

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

REACTIONS. All bearings 46-7-0.

Mid America Truss,

Jefferson City, MO - 65101,

20-6-0

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

Max Uplift 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.

- 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) 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.
- 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 9,2021

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



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T4 Common 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summario 1 Miss Selection 1 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-ZN8axhdbO6GXfUzXSenWngLcxFNtZtJteibn9?znB5q 1-0-0 12-6-0 03/11/2021 4-11-8 4-11-8 2-7-0

5x6 =

except end verticals.

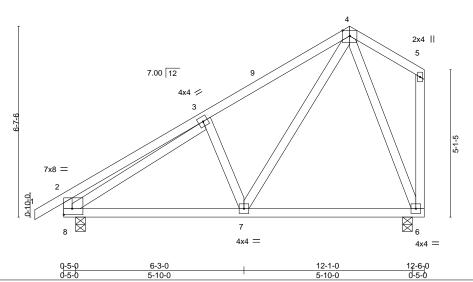


Plate Offsets (X,Y) [2:Edge,0	0-2-8]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.37 BC 0.31 WB 0.33	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.01 7 -0.05 7-8 0.01 6	l/defl >999 >999 n/a	L/d 360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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SP No.2

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)

(size) 6=0-4-0, 8=0-4-0

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

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

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) 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.

Scale = 1:39.9

February 9,2021



Job Truss Truss Type Qty SUMMIT HOMES H3-90 T4GE Common Structural Gable

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaring 3463 Sealer 1

03/11/2021

Scale = 1:43.3



5x6 =2x4 = 2x4 || 2x4 || 2x4 || 7.00 12 2x4 || 22 4x4 2x4 || 5 2x4 II 7x8 = 2x4 || 2x4 II 4x4 = 2x4 || 2x4 II 2x4 || 4x4 = 13 10 12-1-0 0-4-0

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

Mid America Truss,

Jefferson City, MO - 65101,

	3-71771			
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	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 8 >999 360 Vert(CT) -0.00 11 >999 240 Horz(CT) -0.00 6 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 113 lb FT = 3%

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 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 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T5 Roof Special 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6UMIMDIQ4MUSS OUR I Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-zypiajgUh1e6Wyi67mLDOIz7CSMwmEuJKgqRmKznB5n 0-10-8 12-8-8 13-10-4 15-0**03/115/10-2**1 1-1-12 1-1-12 0-10-8 4-10-12 10-1-4 1-1-12 1-1-12 2-7-4 2-7-4 2-7-4 2-7-4

4x5 = 6 6.00 12 4x4 / 4x4 > 18 5x8 =4x12 / 4x12 < 13 14 5x8 4x8 = 16 12 3x5 II 3x5 II 3x4 = 3x4 =

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. DEFL. (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,

BOT CHORD 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

- 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.



15-0-0

Structural wood sheathing directly applied or 3-7-13 oc purlins.

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

Scale = 1:30.3

February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T5A Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6UMIMDIQSUISSOURI Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-R8N5n3g6SLmz86HlhUsSxWWI?siBVhESZKZ_ImznB5m 0-10-5 13-6-12 7-2-8 2-7-4 9-9-12 03/181/2021 3-9-0 2-7-4 Scale = 1:29.3 4x5 =

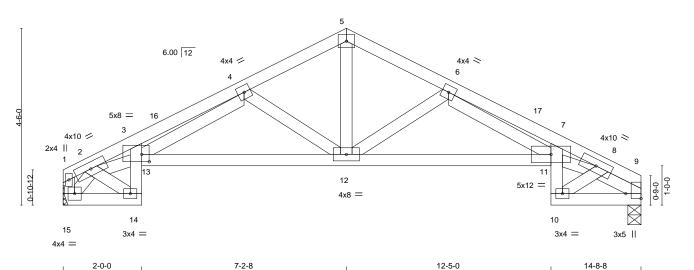


Plate Offsets (X,Y) [3:0-2-4,0-2-4], [9:Edge,0-4-10]						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.37 BC 0.42 WB 0.33 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.06 11 >999 360 Vert(CT) -0.13 11-12 >999 240 Horz(CT) 0.12 9 n/a n/a	PLATES GRIP MT20 244/190 Weight: 82 lb FT = 3%		
BCDL 10.0	0000 11(02010/11 12011	WIGHTX T		770igiti: 02 ib 1 1 = 070		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 TOP CHORD

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.

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

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,

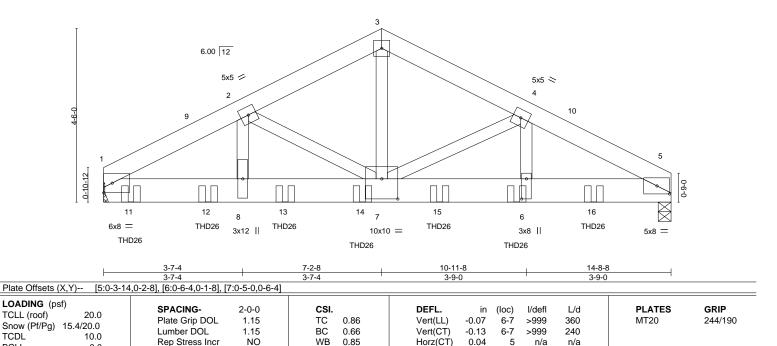
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

February 9,2021



RELEASE FOR Job Truss Truss Type Qty Ply SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T5G Roof Special Girder **DEVELOPMENT SERVICES** | A Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Nov 30 2020 MiTek Industries, Inc.Lines Section | Section | Lines Section | Section | Section | Lines | Lines | Section | Lines Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-OXVrCliM y1hNQRhouuw0xbWmgKuzTal0e25NfznB5k 10-11-8 03/11/2021 3-9-0 5x5 || Scale = 1:29.9



BRACING-

TOP CHORD

BOT CHORD

OR THE BUILDING DESIGNER.

LUMBER-

TCDL

BCLL

BCDL

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

0.0

10.0

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.

Code IRC2018/TPI2014

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.

Matrix-P

- 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



FT = 3%

Weight: 212 lb

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

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

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

February 9,2021



MRNING - 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 Qty Ply SUMMIT HOMES H3-90 T5G Roof Special Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-OXVrCliM_y1hNQRhouuw0xbWmgKuzTal0e25NfznB5k

03/11/2021

LOAD CASE(S) Standard

Mid America Truss,

Concentrated Loads (lb)

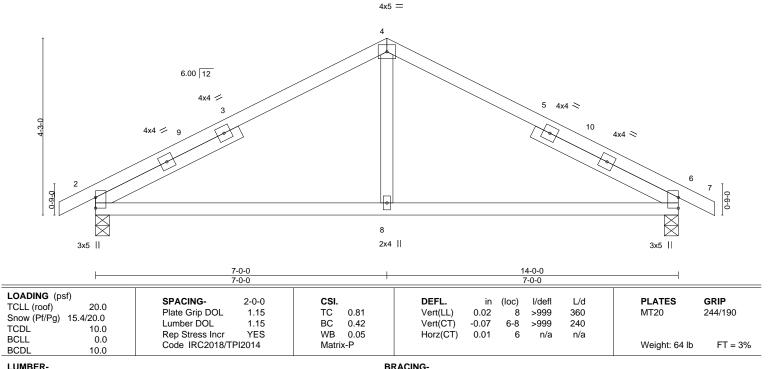
Vert: 6=-1985(B) 11=-1543(B) 12=-1985(B) 13=-1985(B) 14=-1985(B) 15=-1985(B) 16=-1985(B)

Jefferson City, MO - 65101,



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T6 Common **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaring Muta Seal Later Seal Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-sj3DP5j_IG9Y?Z?tMcQ9Z88iK4kti7HvFloev5znB5j -0-10-8 0-10-8 7-0-0 7-0-0 03/11/20210-8 7-0-0 Scale = 1:27.7



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) 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.

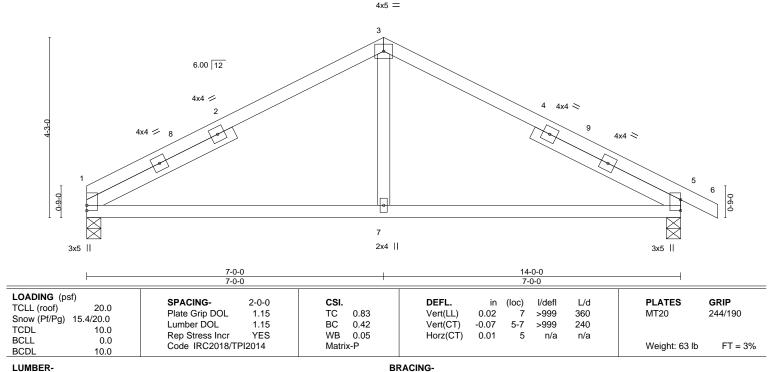
Rigid ceiling directly applied or 10-0-0 oc bracing.

February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T6A Common **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaring Music Section 1. Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-KvdbdRjcWZHPdja4wJxO5MgtnT35RaW2UxYCRXznB5i 03/11/2<mark>029</mark>-8 7-0-0 Scale = 1:27.2



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.

1-3=-694/4, 3-5=-696/0 TOP CHORD **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.

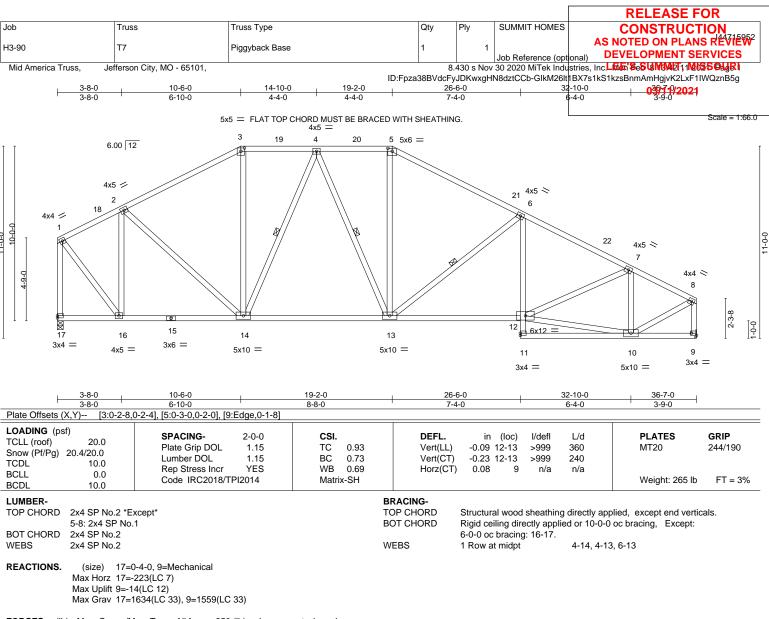


Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

February 9,2021





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

 $1-2=-987/21,\ 2-3=-1465/49,\ 3-4=-1182/57,\ 4-5=-1452/89,\ 5-6=-1783/66,\ 6-7=-2315/56,$ TOP CHORD

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

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

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

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=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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T8 Piggyback Base 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6UMIMD134U556UJRI Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Chs6Son7Zonr5Lur99?KGCrVU5LSNAwePZWPaJznB5e 39-8-03/17-6/2021 3-4-0 0-10-8 14-10-0 19-2-0 26-0-0 32-10-0 36-4-0 3-8-0 4-4-0 6-10-0 4-4-0 6-10-0 6-10-0 3-6-0

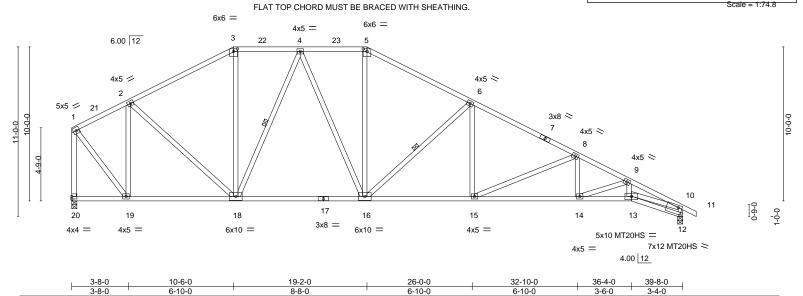


Plate Offsets (X,Y)-[3:0-3-0,0-2-0], [5:0-3-0,0-2-0], [12:0-3-0,0-5-4] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.97 Vert(LL) -0.22 14-15 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.78 Vert(CT) -0.46 14-15 >999 240 MT20HS 187/143 **TCDL** 10.0 Rep Stress Incr YES WB 0.92 Horz(CT) 0.21 12 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 269 lb BCDL 10.0

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except*

13-17: 2x4 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 20=0-4-0, 12=0-4-0

Max Horz 20=-235(LC 7)

Max Uplift 12=-37(LC 12)

Max Grav 20=1762(LC 34), 12=1693(LC 34)

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

TOP CHORD $1-2=-1067/22,\ 2-3=-1619/51,\ 3-4=-1322/58,\ 4-5=-1697/92,\ 5-6=-2041/73,\ 6-8=-2898/60,$

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

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

12-13=-22/468

WEBS 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-

- 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) 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
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 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.



Structural wood sheathing directly applied, except end verticals.

4-18, 6-16

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

1 Row at midpt

February 9,2021



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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 Т9 Piggyback Base **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6UMIMD14MUSS OUR I Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-htQUg8nlK6vhjUT1isWZoPOiiUg56f?ndDFz7lznB5d 32-0-0 32030 1/2021 3-4-0 0-10-8 25-2-0 28-8-4-0-8 6-10-0 6-10-0 3-6-6.00 12 6x8 = 3x4 || Scale = 1:68.1 6x8 = 322 21 4x5 🖊 4x5 < 5 3x6 > 11-0-0 6 4x5 > 4x5 < 8 10 15 14 13 12 5x12 16 **⊠** 20 4x5 = 4x5 = 7x10 =19 18 11 3x6 3x4 =7x10 > 5x10 = 3x4 =4x5 = 4.00 | 12 11-6-0 24-0-0 28-8-0 32-0-0 2-10-0 2-10-0 4-7-8 4-0-8 Plate Offsets (X,Y)--[2:0-6-0,0-2-8], [4:0-6-0,0-2-8], [11:0-2-12,0-2-4], [18:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.88 Vert(LL) -0.17 13-14 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.88 Vert(CT) -0.35 13-14 >999 240 **TCDL** 10.0 Rep Stress Incr YES WB 0.81 Horz(CT) 0.18 11 n/a n/a

LUMBER-

BCLL

BCDL

WEBS

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

Matrix-SH

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 1 Row at midpt 3-17

WEBS 1 Row at midpt 2-19, 4-17, 5-15, 1-20

REACTIONS. (size) 20=0-4-0, 11=0-4-0

0.0

10.0

2x4 SP No.2

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.

 $1\hbox{-}2\hbox{--}386/97, 2\hbox{-}3\hbox{--}733/77, 3\hbox{-}4\hbox{--}734/76, 4\hbox{-}5\hbox{--}1270/77, 5\hbox{-}7\hbox{--}2115/60, 7\hbox{-}8\hbox{--}2900/57,}$ TOP CHORD

Code IRC2018/TPI2014

8-9=-3741/53, 1-20=-1242/31, 9-11=-1413/62

BOT CHORD 19-20=-78/272, 3-17=-430/86, 15-17=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) 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) 20, 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.



FT = 3%

Weight: 259 lb

February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEWS H3-90 T10 Piggyback Base 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e6\(\text{Se6\(\text{MitWit}\)35 Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-KNZIUoJIW1?EYV_XwAKQjBG2YmMDT0Z2ffIPFWznB6E 28-8-0 32-0-0 +33<mark>03/4</mark>1/2021 4-0-8 6-10-0 6-10-0 3-6-0 3-4-0 6.00 12 6x8 = 3x4 || 6x8 = Scale = 1:68.9 322 21 4x5 / 4x5 < 5 3x6 > 6 4x5 < 4x5 < 15 14 13 12 ₩ 20 5x12 = 16 4x5 =4x5 =7x10 =19 18 3x6 = 3x4 =7x10 > 5x10 = 3x4 =4x5 = 4.00 12 11-6-0 32-0-0 2-10-0 2-10-0 4-7-8 4-0-8 6-10-0 6-10-0 Plate Offsets (X,Y)--[2:0-6-0,0-2-8], [4:0-6-0,0-2-8], [11:0-2-12,0-2-4], [18:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defl L/d **PLATES** GRIP 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.88 Vert(LL) -0.17 13-14 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.86 Vert(CT) -0.35 13-14 >999 240 **TCDL** 10.0 Rep Stress Incr YES WB 0.79 Horz(CT) 0.18 11 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 261 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 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, Except: **WEBS** 6-0-0 oc bracing: 11-12. 1 Row at midpt **WEBS** 1 Row at midpt 2-19, 4-17, 5-15, 1-20 REACTIONS. (size) 20=0-4-0, 11=0-4-0 Max Horz 20=-337(LC 7) Max Uplift 20=-18(LC 7), 11=-48(LC 12) Max Grav 20=1264(LC 2), 11=1420(LC 34) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-385/97, 2-3=-731/75, 3-4=-732/75, 4-5=-1267/75, 5-7=-2107/56, 7-8=-2876/46,

8-9=-3672/26, 1-20=-1239/31, 9-11=-1435/62

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

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) 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) 20, 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.



February 9,2021







RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T10A Piggyback Base **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e8lantwitageuiss euglis Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-oZ77i8KwHQ749fZkUurfGOpC4Ai2CTUBuJ2yoyznB6D 2-10-0 28-8-0 32-0-0 **03/11/2021** 25-2-0 4-4-0 4-4-0 6-10-0 6-10-0 3-4-0 6.00 12 5x5 = 4x5 = 5x5 = Scale = 1:65.1 2 24 3 25 4x4 / 4x5 < 3x6 > 1-0-0 6 4x5 🗢 4x5 < ă 14 18 3x4 =5x12 = []16 0-6-0 15 13 12 3x6 = 4x5 = 5x10 = 4x5 = 7x10 = 2x4 || 2x4 || 2x4 || 7x10 > 2x4 || 4.00 12 11-6-0 18-4-0 28-8-0 32-0-0 2-10-0 4-7-8 4-0-8 Plate Offsets (X,Y)--[2:0-2-8,0-2-4], [4:0-2-8,0-2-4], [10:Edge,0-2-4], [15:0-4-8,0-2-8] LOADING (psf) SPACING-2-0-0 (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.96 Vert(LL) -0.16 12-13 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.89 Vert(CT) -0.34 12-13 >999 240 **TCDL** 10.0 Rep Stress Incr YES WB 0.81 Horz(CT) 0.13 10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 245 lb BCDL 10.0 LUMBER-BRACING-2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 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. Except:

TOP CHORD

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

REACTIONS. (size) 18=0-4-0, 10=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.

 $1-2=-509/64,\ 2-3=-425/61,\ 3-4=-989/120,\ 4-5=-1251/105,\ 5-7=-2116/95,\ 7-8=-2910/96,$ TOP CHORD

8-9=-3764/108, 1-18=-1226/11, 9-10=-1339/64

BOT CHORD 13-15=0/1812, 12-13=-17/2603, 11-12=-71/3242, 10-11=-24/320

WEBS 15-17=0/774, 3-17=-778/98, 3-15=-55/599, 5-15=-1096/128, 5-13=0/470, 7-13=-857/91,

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 and 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) and DOL=1.15 Plate DOL
- 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1



February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 T10B PIGGYBACK BASE 5 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: 8e8lantwitas values

Lida: 8e8lantwitas values v Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-kyFt6qLAp2NoPyj6bJt7LpuZn_NVgN0ULdX3sqznB6B 28-8-0 2-10-0 2-10-0 11-6-0 25-2-0 32-0-0 -03/11/2021 4-0-8 6-10-0 6-10-0 3-6-3-4-0 6.00 12 6x8 = 3x4 || Scale = 1:67.5 6x8 = 321 20 4 4x5 / 4x5 < 5 3x6 <> 6 4x5 < 4x5 < 8 19-0-1 19-0-1 19-0-1 13 12 14 11 15 5x12 =4x5 = 4x5 = 7x10 = 19 10 18 17 3x6 3x4 = 7x10 < 5x10 = 3x4 = 4x5 =4.00 12 11-6-0 28-8-0 32-0-0 2-10-0 2-10-0 4-7-8 4-0-8 Plate Offsets (X,Y)--[2:0-6-0,0-2-8], [4:0-6-0,0-2-8], [10:Edge,0-2-4], [17:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defl L/d **PLATES** GRIP 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.88 Vert(LL) -0.17 12-13 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.89 Vert(CT) -0.36 12-13 >999 240 **TCDL** 10.0 Rep Stress Incr YES WB 0.81 Horz(CT) 0.18 10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 3% Matrix-SH Weight: 258 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

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

3-16

2-18, 4-16, 5-14, 1-19

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

WEBS 1 Row at midpt

REACTIONS. (size) 19=0-4-0, 10=0-4-0

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.

1-2=-386/97, 2-3=-734/78, 3-4=-735/78, 4-5=-1271/78, 5-7=-2117/63, 7-8=-2909/62, TOP CHORD

8-9=-3765/66, 1-19=-1243/31, 9-10=-1339/50

BOT CHORD 18-19=-80/264, 3-16=-430/86, 14-16=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

- 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEWS H3-90 T11 Piggyback Base **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: SeSUMMINITATIVES CAUEI Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-8Xw0lsO26zlNGQRhHRRqzSW4gBOxtksw2bljT9znB68 2-10-0 2-10-0 25-2-0 7-1-0 18-1-0 28-8-0 32-0-0 -03/11/2021 6-4-8 2-3-8 3-3-8 3-3-8 3-6-3-4-0 6.00 12 6x8 = 5x5 = Scale = 1:67.4 4x4 = 3 24 25 4 4x5 / 5x10 > 3x4 II 3x6 <> 4x5 < 8 4x5 < 19 6x12 = 10]-6-13 12 5x12 =Ŕ 7x10 = 4x5 = 23 22 21 16 15 18 3x4 = 7x10 < 5x10 = 5x10 = 3x4 = 3x4 = 4.00 12 11-2-8 28-8-0 32-0-0 2-10-0 9-2-8 14-9-8 18-1-0 2-10-0 6-4-8 2-0-0 3-7-0 3-3-8 Plate Offsets (X,Y)--[2:0-6-0,0-2-8], [4:0-2-8,0-2-4], [11:Edge,0-2-4], [15:Edge,0-1-8], [17:0-0-0,0-1-8], [21:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.78 Vert(LL) -0.19 13-14 >999 360 244/190 MT20 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.90 Vert(CT) -0.42 13-14 >900 240 **TCDL** 10.0 Rep Stress Incr YES WB 0.74 Horz(CT) 0.24 11 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 294 lb FT = 3%Matrix-SH BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-5-1 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. Except: **WEBS** 1 Row at midpt 3-20 10-0-0 oc bracing: 17-19 **WEBS** 1 Row at midpt 2-22, 5-16, 8-14, 1-23 REACTIONS. (size) 23=0-4-0, 11=0-4-0

Max Horz 23=-322(LC 7)

Max Uplift 23=-13(LC 7), 11=-23(LC 12) Max Grav 23=1278(LC 2), 11=1319(LC 33)

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

TOP CHORD 1-2=-391/93, 2-3=-1097/28, 3-4=-1253/41, 4-5=-1460/31, 5-6=-2021/134, 6-8=-2072/57,

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

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

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) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 11.
- 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.





February 9,2021

Job Truss Truss Type Qty SUMMIT HOMES H3-90 T11GE **GABLE** Mid America Truss, Jefferson City, MO - 65101,

11-6-0

8-8-0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

0-6-0

Scale = 1:67.4

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summaki 43 Mts Seal Riving Seal Ri

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-5v2mAYPJda?5Vjb4OsTl2tcVS?EeLnKDVvEqX2znB66 03/11/2021 20-6-0

6.00 12 3x6 = $2x4 \parallel 2x4 \parallel 2x4 \parallel 2x4 \parallel 3x6 = 2x4 \parallel$ 2x4 || 4 39 5 406 7 2 2x4 || 3x4 || 10 2x4 || 2x4 || 12 2x4 || 13 2x4 || 14 41 2x4 || Ø M × X 15 2x4 || X 16 2x4 || 2x4 || 3x6 > 17 18 19 5x6 || 20

32-0-0 [3·0 3 0 0 3 0] [9·0 3 0 0 3 0] [30·Edge 0 3 9

33

2x4 ||

34

2x4 ||

Plate Offsets (X, Y) [3:0-3-0,	0-2-0], [8:0-3-0,0-2-0], [20:	Eage,0-3-8]									
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 TCDL BCLL	20.0 .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	0.50 0.25 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
BCDL	0.0 10.0	Code IRC2018/TPI	2014	Matri	x-R						Weight: 274 lb	FT = 3%

29

2x4 ||

28

2x4 ||

27

2x4 ||

26

2x4 ||

25

2x4 ||

24

2x4 ||

23

2x4 ||

22

2x4 ||

21

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 except end verticals.

WEBS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

32 31

5x6 =

30

2x4 ||

OTHERS 2x4 SP No.2 **WEBS** 1-38, 2-37, 4-36, 5-35, 6-34, 7-33, 9-31, 1 Row at midpt

10-30, 11-29

REACTIONS. All bearings 32-0-0.

11-0-0

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

38

3x4 =

37

2x4 ||

36

2x4 ||

35

2x4 ||

2-10-0 2-10-0

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 17-19=-254/79, 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,

31-33=-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) 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.
- 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.



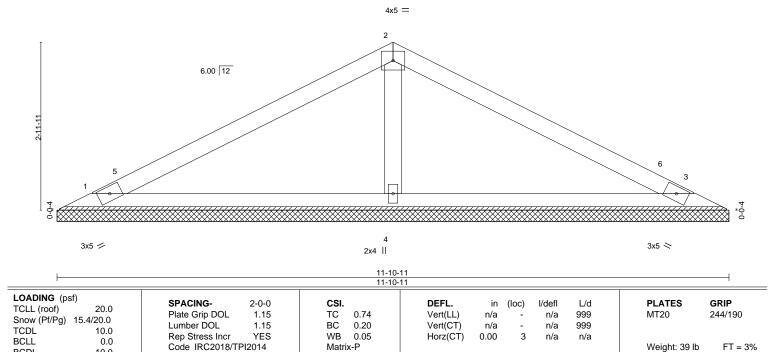
February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V1 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Section Services Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-93_ttUoN5P1YLe2EGa2oLdwvcu9wrl8xst?WfBznB5c 11-10-1 03/11/2021 5-11-6 5-11-6 Scale = 1:20.4



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

OTHERS 2x4 SP No.2

> 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)

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.



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

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

February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V2 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summariza 3463 Seale III Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-wcTuZDuODt2QltfmkFBggJGPG7whjvU6i7xxxkznB5U 7-10-11 03/11/2021 3-11-6 3-11-6 Scale = 1:15.0

4x4 = 2 6.00 12 3 0-0-4 J-0-0 3x4 / 2x4 || 3x4 < 7-10-11 7-10-3 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 0.25 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 **TCDL** 10.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Matrix-P

LUMBER-

BCLL

BCDL

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

0.0

10.0

OTHERS 2x4 SP No.2

1=7-9-11, 3=7-9-11, 4=7-9-11 REACTIONS. (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.

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
- 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.



Weight: 25 lb

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

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT HOMES AS NOTED ON PLANS REVIEW H3-90 V3 Valley **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Oo1GmZv1zAAHw1EylzivCWodTWHASM4FwngUTAznB5T 03/11/2021 1-11-6 3x4 = Scale = 1:7.5 6.00 12 3 0-0-4 3x4 / 3x4 ≥

3-10-11

Plate Offsets (X,Y) [2:0-2-0,	Edge]								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCDL 10.0 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 0.03 BC 0.06 WB 0.00 Matrix-P	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 Weight: 10 lb	GRIP 244/190 FT = 3%

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 BRACING-

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)

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.

- 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.



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS RE H3-90 V4 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-s_bf_vwfkUI8XBp9sgD8lkLkZwcsBpMP9RQ2?cznB5S 03/11/2021 8-6-6 2-7-0 4x5 = Scale = 1:31.0 3 2x4 || 7.00 12 2x4 ||

	3x5 🖊	7		6		5 2x4		
		2x4		2x4				
		11-1-6 11-1-6						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.26 BC 0.10 WB 0.06 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a -0.00	c) I/defl - n/a - n/a 5 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 49 lb	GRIP 244/190 FT = 3%
LUMBER-		BRA	CING-					

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 WEBS

(lb) -

OTHERS 2x4 SP No.2 REACTIONS. All bearings 11-1-6.

Max Horz 1=134(LC 8) 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.

2-7=-313/130 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) 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 9,2021

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

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

except end verticals.

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V5 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-KB81BFxHVpQ_9KOLPOkNIxuwfKybwGxYO59bY2znB5R 9-4-13 03/11/2021 6-9-13 Scale = 1:26.2 4x4 = 3 7.00 12 2x4 || 2x4 || 2 2-5-10 0-0-4 ⁵2x4 || 3x4 / 2x4 || 2x4 || 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 0.24 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

LUMBER-TOP CHORD

BCLL

BCDL

2x4 SP No.2

0.0

10.0

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

(lb) -

OTHERS 2x4 SP No.2 REACTIONS. All bearings 9-4-13.

Max Horz 1=102(LC 8) 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.

Rep Stress Incr

Code IRC2018/TPI2014

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

YES

WB

Matrix-P

0.04

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

5

except end verticals.

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,

- 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.



Weight: 39 lb

February 9,2021

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEWS H3-90 V6 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

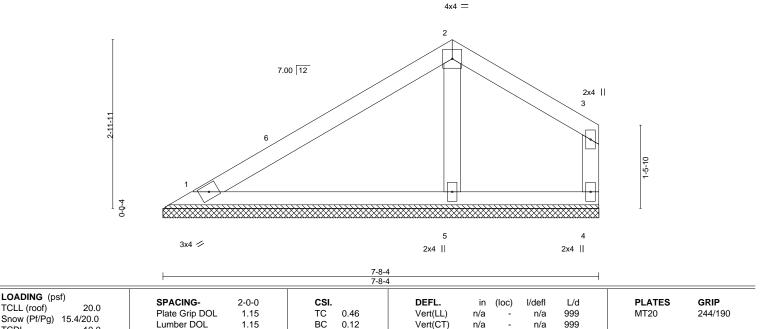
Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summarizations

DEVELOPMENT SERVICES

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summarizations

DEVELOPMENT SERVICES Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-oNiPPaxvG5YrnUyXz5Fcq9Q00kl?fjKidlv94VznB5Q 03/11/2021 2-7-0 5-1-3 Scale = 1:20.3



Code IRC2018/TPI2014 LUMBER-BRACING-

YES

WB

Matrix-P

0.03

Rep Stress Incr

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

10.0

0.0

10.0

OTHERS 2x4 SP No.2

LOADING (psf)

TCLL (roof)

TCDL

BCLL

BCDL

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

n/a

n/a

-0.00

Horz(CT)

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

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.

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, 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.

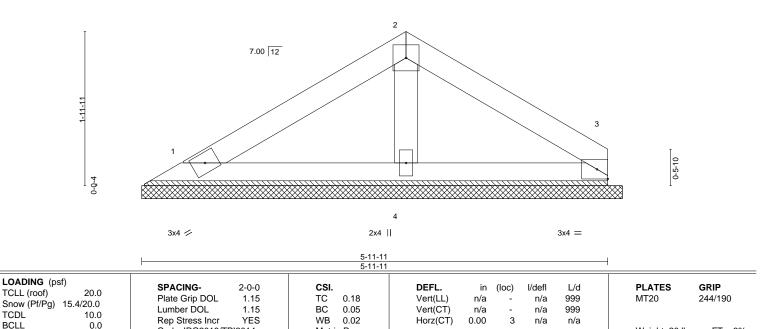


Weight: 29 lb

February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V7 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-GZGncwyX1PgiOeXjXpmrNMzG88eEOAorrPeicxznB5P 03/11/2021 3-4-10 2-7-0 Scale = 1:14.8 4x4 =



LUMBER-

OTHERS

TCDL

BCLL

BCDL

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

2x4 SP No.2

10.0

BRACING-

Matrix-P

TOP CHORD BOT CHORD

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

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

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)

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

Code IRC2018/TPI2014

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.



Weight: 20 lb

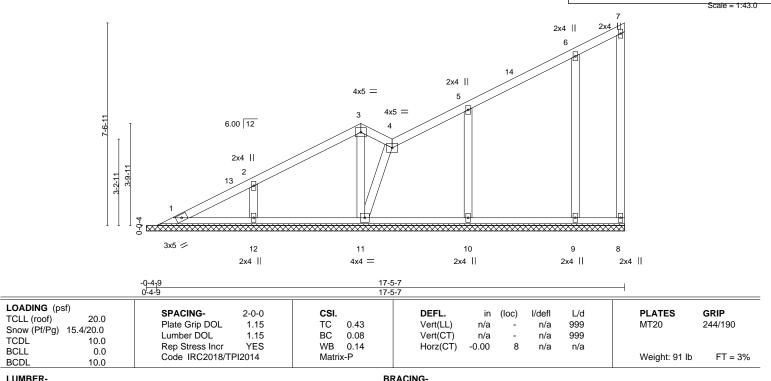
February 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS RE H3-90 V8 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summarize 3 Mits Services Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-kmg9pGz9pjoZ0o6w5WI4vaVNvXz47b5?43OF8NznB5O 7-7-7 7-7-7 03/11/2021 1-2-0 8-8-0



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 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),

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

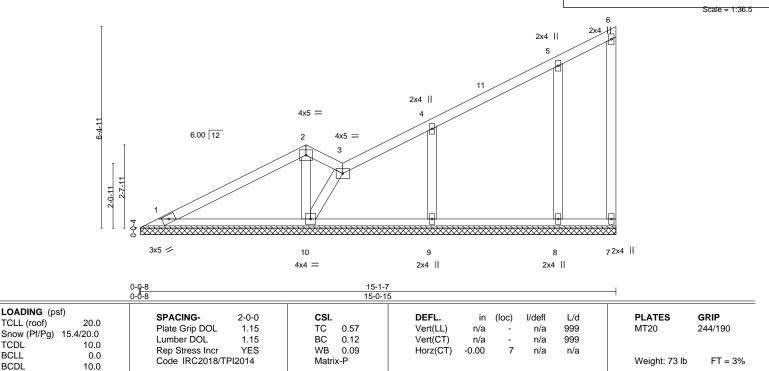
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 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 9,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V9 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-DyOY1c_\operatorname{2}OwQeyh6eEpJSn2WYxJds358Jj7phqznB5N 03/11/2021 1-2-0 8-8-0



LUMBER-BRACING-

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

LOADING (psf)

TCLL (roof)

TCDI

BCLL

BCDL

OTHERS

TOP CHORD **BOT 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, Except:

6-0-0 oc bracing: 1-10

REACTIONS. All bearings 15-0-15.

2x4 SP No.2

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

- 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.



February 9,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT HOMES AS NOTED ON PLANS REVIEW H3-90 V10 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.Lida: SeSUMMETICALISS CAUEL Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-dGYF5qp?sj9PyodQqHZ1uqTD_IYHalC45Xk3BdznB5b 12-9-7 03/11/2021 2-11-7 1-2-0 8-8-0 Scale = 1:29.3 2x4] 2x4 || 5 2x4 || 4x5 = 6.00 12 2 4x5 ||

	1414									$\overline{\boxtimes}$
		3x5 =	11 2x4	3x5 ≈	9 2x4			8 2x4		7 2x4
	0- <u>0-8</u> 0-0-8				12-9-7 12-8-15					_
LOADING (psf)	20.0	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES

10

Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	n/a	-	n/a	999	
(0,		Lumber DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr YES	WB 0.06	Horz(CT)	-0.00	7	n/a	n/a	
BCLL	0.0	Code IRC2018/TPI2014	Matrix-P	11012(01)	0.00	'	11/4	11/4	
BCDL	10.0	Code IRC2016/1712014	Matrix-P						

BRACING-

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.

2x4 SP No.2 REACTIONS. All bearings 12-8-15.

2x4 SP No.2

2x4 SP No.2

2x4 SP No.2

-10-11

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

NOTES-

LUMBER-

WEBS

OTHERS

TOP CHORD

BOT CHORD

- 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.



GRIP

MT20

Weight: 58 lb

244/190

FT = 3%

February 9,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V11 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summary 7, 1035 Sources. Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-5S6dlAqed1HGayBcO?4GQ20Mait?JBjEJBUdj4znB5a 03/11/2021 8-1-7 Scale: 1/2"=1 2x4 || 6.00 12 2x4

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 Rep Stress Incr YES WB 0.04 Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 32 lb FT = 3% **BCDL** 10.0

2x4 ||

LUMBER-BRACING-

3x4 /

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 10-0-0 oc bracing.

REACTIONS. (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)

0-0-4

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.

WEBS 2-5=-327/108

- 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.



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V12 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc. Later Ses Language 1.54 (1985) Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Zeg?WVqGOKP7C6moxibVzFYRB6BK2ebNYrDAGWznB5Z 5-9-7 5-9-7 03/11/2021 Scale = 1:17.3 2x4 II 6.00 12 0-0-4 2x4 || 3x4 / 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 0.66 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Matrix-P

LUMBER-

BCLL

BCDL

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

0.0

10.0

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.

Code IRC2018/TPI2014

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.



Weight: 21 lb

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

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

except end verticals.

February 9,2021





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V13 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-1qDNjrru9eX_pGL?VQ6kVT5j5VZvn5HWnVzkoyznB5Y 03/11/2021 6-11-7 Scale = 1:20.5 2x4 II. 6.00 12 2x4 || 2 0-0-4 5 3x4 / 2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

n/a

except end verticals.

-0.00

999

999

n/a

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

n/a

n/a

n/a

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

LUMBER-

REACTIONS.

TCDI

BCLL

BCDL

TOP CHORD 2x4 SP No.2

10.0

0.0

10.0

Snow (Pf/Pg) 15.4/20.0

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)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

WEBS 2-5=-294/91

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

1.15

1.15

YES

TC

ВС

WB

Matrix-P

0.20

0.07

0.04

- 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.



244/190

FT = 3%

MT20

Weight: 27 lb

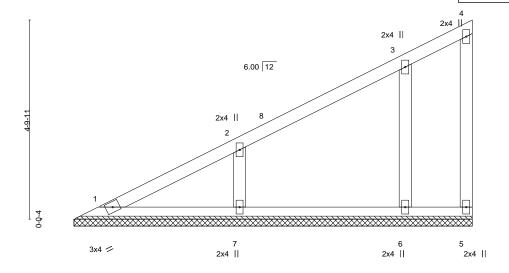
February 9,2021







RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V14 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-1qDNjrru9eX_pGL?VQ6kVT5j0VZhn4pWnVzkoyznB5Y 03/11/2021 9-7-7



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 YES	CSI. TC 0.20 BC 0.08 WB 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	, ,					Weight: 43 lb	FT = 3%

LUMBER-BRACING-

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

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.



Scale = 1:27.8

February 9,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty SUMMIT HOMES AS NOTED ON PLANS REVIEW H3-90 V15 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-V1nmxBsWwyfrRPwB37dz2geuHvvzWXvg09iHKPznB5X 03/11/2021 11-7-7 Scale = 1:32.9 2x4 2x4 || 6.00 12 2x4 ||

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 n/a n/a -0.00	(loc) - - 5	I/defI 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: 51 lb	FT = 3%

6

2x4 ||

LUMBER-BRACING-TOP CHORD

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

BOT CHORD

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

5 2x4 ||

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

REACTIONS. All bearings 11-7-7.

2x4 SP No.2

Max Horz 1=178(LC 10) (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=326(LC 2), 6=389(LC 15)

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

3x5 /

WEBS 3-6=-306/97

NOTES-

OTHERS

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

2x4 ||

- 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 9,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

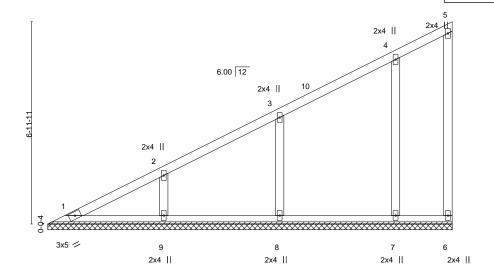
RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V16 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc. Later Ses Language 1025 Column

DEVELOPMENT SERVICES

8.430 s Nov 30 2020 MiTek Industries, Inc. Later Ses Language 1025 Column

DEVELOPMENT SERVICES Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-zDL88Xt8hFni3ZVNdr8CbuA15JFDFzzpEpSqsrznB5W 03/11/2021 13-11-7



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 YES	CSI. TC 0.36 BC 0.08 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - -	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	11012(01)	0.00	J	11/4	11/4	Weight: 68 lb	FT = 3%

LUMBER-BRACING-TOP CHORD

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

OTHERS 2x4 SP No.2 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 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.



Scale = 1:39.8



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-90 V17 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

Services

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summarizations

DEVELOPMENT SERVICES

B.430 s Nov 30 2020 MiTek Industries, Inc.L. Later Se Summarizations

DEVELOPMENT SERVICES Mid America Truss, Jefferson City, MO - 65101, ID:Fpza38BVdcFyJDKwxgHN8dztCCb-SPvWLttmSZwZgj4aAYgR75j9Lja7_QhzTTBOPHznB5V 03/11/2021 16-3-7 Scale = 1:45.5 5

8-1-11	1	2x4 2	6.00 12 2x4 3	2x4 10 ⁴	2x4
	3x5 🖊	9 2x4	8 2x4	7 2x4	6 2x4
		207	207 II	207 []	2,4 11

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 0.52 BC 0.10 WB 0.19	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 0.0	Code IRC2018/TPI2014	Matrix-P						Weight: 77 lb	FT = 3%

BOT CHORD

LUMBER-BRACING-

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

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.

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

- 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 9,2021



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW SEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURIE, MIS

* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in plates 0- 1/16" from outside

edge of truss.

PLATE SIZE

4 × 4

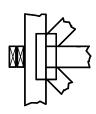
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

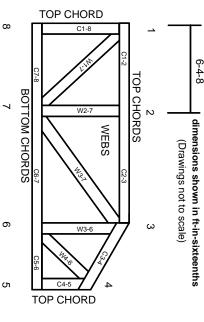
Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.