

Truss bracing notes

. IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.

- 2. 2X4 SPF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) IOD NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.
- 3. WEB "T" BRACE, DETAIL 3/RF-IC, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS
- THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF 2X4 LATERAL BRACING. . DIAGONAL BRACING REQUIRED WHEN LATERAL
- BRACING IS REQUIRED (7/RF-I)

 5. STUDDED GABLE BRACING DETAIL I/RF-IC TO BE

 UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.

 5. PARTIALLY SHEATHED GABLES, SEE 5/RF-IC FOR "L"
- BRACING WHEN REQUIRED.

 I. LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING. 8. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

TRUSS BRACING DETAILS S-4 SCALE: 1/8" = 1'-0"

Job Truss Truss Type Qty Ply 02 Valley 147779321 **ORDERS** VT-95510 VCOM Job Reference (optional) NVR, Frederick, MD - 21703, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:14 2021 Page 1 ID:v6Z6pgbJ9MBbXVTJcHb?unyGd2m-pdTH53gv6durCw64m7kYi2txuudo6uUeX5HATmygS23 3-0-0 6-0-0 3-0-0 Scale = 1:11.1 3x4 = 4.00 12 2 3 2x4 = 2x4 > 6-0-0 6-0-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) n/a n/a 999 MT20 197/144 (Roof Snow=30.0)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

n/a

n/a

3

999

n/a

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

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

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No 3 or 2x4 SPF Stud 2x4 SP No.3 or 2x4 SPF Stud BOT CHORD

10.0

0.0

10.0

(size) 1=6-0-0, 3=6-0-0

Max Horz 1=-16(LC 13) Max Uplift 1=-51(LC 8), 3=-51(LC 9) Max Grav 1=224(LC 18), 3=224(LC 19)

Lumber DOL

Rep Stress Incr

Code IBC2021/TPI2014

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

TOP CHORD 1-2=-287/114, 2-3=-287/114

BOT CHORD 1-3=-93/252

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

BC

WB

Matrix-P

0.38

0.00

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



Weight: 16 lb

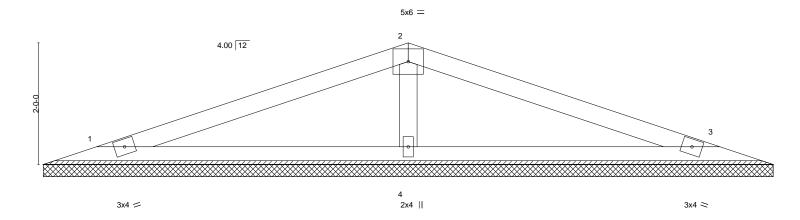
FT = 5%

September 16,2021



Job Truss Truss Type Qty Ply 02 Valley 147779322 **ORDERS** VT-95511 VCOM Job Reference (optional) NVR Frederick, MD - 21703, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:15 2021 Page 1 ID:v6Z6pgbJ9MBbXVTJcHb?unyGd2m-Hp0flPgXtx0iq4gGKrFnFFP_zlzLrKEoml0k?CygS22 6-0-0 6-0-0

Scale = 1:18.9



	6-0-0 6-0-0		+	12-0-0 6-0-0						
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) 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 IBC2021/TPI2014	CSI. TC 0.71 BC 0.43 WB 0.10 Matrix-S	DEFL. in Vert(LL) n/s Vert(CT) n/s Horz(CT) 0.00	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 5%		
LUMBER-			BRACING-							

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

WFBS 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 1=12-0-0, 3=12-0-0, 4=12-0-0

Max Horz 1=-39(LC 13)

Max Uplift 1=-71(LC 8), 3=-76(LC 13), 4=-105(LC 8) Max Grav 1=310(LC 18), 3=310(LC 19), 4=580(LC 1)

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

WEBS 2-4=-426/162

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3 except (jt=lb) 4=105.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.

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

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

September 16,2021



Truss Type Job Qty Ply 11 Southeast-Girder-Int SE-18617- Cond1 149194730 COMN **ORDERS** Job Reference (optional)

NVR. Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:28 2021 Page 1 $ID: IJkAtAdo3eV1PB_YPPXGKuzpt0s-a4smtw6u8lm2mv0nly32enc9vrEHdeDlq4mOLDyAa4ff10s-beta$

10-0-0 20-11-4 0-11-4 4-11-13 15-0-3 20-0-0 4-11-13 5-0-3 5-0-3 4-11-13

> Scale = 1.54.04x6 =

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

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

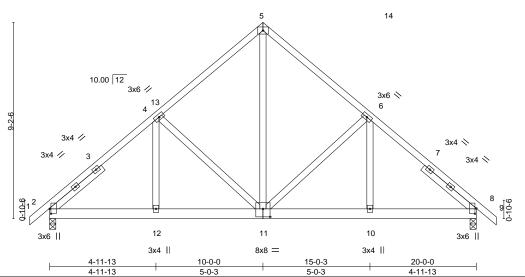


Plate Offsets (X,Y)--[2:0-2-12,0-0-12], [8:0-3-1,0-0-12], [11:0-4-0,0-4-8]

LOADING (psf) TCLL 30.0 (Roof Snow=30.0)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.44	DEFL. in (loc) I/de Vert(LL) -0.02 10-11 >99	9 360	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.19 WB 0.21	Vert(CT) -0.04 10-11 >99 Horz(CT) 0.01 8 n/		
BCLL 0.0 * BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.01 11 >99	9 240	Weight: 287 lb FT = 5%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 3-2-0, Right 2x4 SP or SPF No.3 or Stud 3-2-0

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

Max Horz 2=-232(LC 8)

Max Uplift 2=-165(LC 10), 8=-165(LC 11) Max Grav 2=1529(LC 17), 8=1529(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1786/197, 4-5=-1278/239, 5-6=-1278/239, 6-8=-1786/197 **BOT CHORD** 2-12=-177/1247, 11-12=-177/1247, 10-11=-72/1247, 8-10=-72/1247 4-12=0/314, 5-11=-173/971, 6-10=0/314, 4-11=-584/224, 6-11=-584/224 WEBS

NOTES-(10-12)

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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=165. 8=165.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 12) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

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LOAD CASE(S) Standard

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

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

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



[MCT]



Job Truss Truss Type Qty Ply 11_Southeast-Girder-Int SE-18617- Cond1 I49194730 COMN ORDERS Job Reference (optional)

Frederick, MD - 21703, NVR,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:28 2021 Page 2 ID:JJkAtAdo3eV1PB_YPPXGKuzpt0s-a4smtw6u8lm2mv0nly32enc9vrEHdeDlq4mOLDyAa4f

LOAD CASE(S) Standard

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

Vert: 2-8=-60(B=-40), 1-5=-80, 5-9=-80

818 Soundside Road Edenton, NC 27932

Truss Truss Type Job Qty 11 Southeast-Girder-Int |SE-18617- Cond2 149194730 СОМИ **ORDERS** Job Reference (optional)

Frederick, MD - 21703 NVR.

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:28 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-a4smtw6u8lm2mv0nly32enc8rrD4de0lq4mOLDyAa4f

10-0-0 4-11-13 15-0-3 20-0-0 20-11-4 4-11-13 5-0-3 5-0-3 4-11-13

> Scale = 1:55.1 4x6 =

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

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

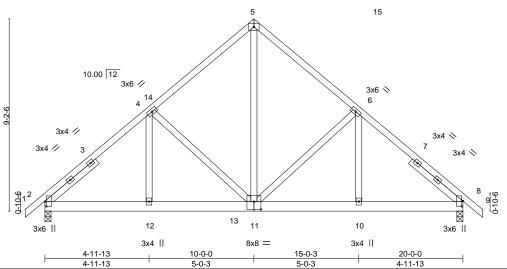


Plate Offsets (X,Y)-- [2:0-2-12,0-0-12], [8:0-3-1,0-0-12], [11:0-4-0,0-4-8]

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 3-2-0, Right 2x4 SP or SPF No.3 or Stud 3-2-0

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

Max Horz 2=-232(LC 8)

Max Uplift 2=-170(LC 10), 8=-178(LC 11) Max Grav 2=1559(LC 17), 8=1609(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1831/204, 4-5=-1324/246, 5-6=-1324/246, 6-8=-1875/210

BOT CHORD 2-12=-182/1279, 11-12=-182/1279, 10-11=-82/1311, 8-10=-82/1311 4-12=0/311, 5-11=-182/1028, 6-10=0/346, 4-11=-579/223, 6-11=-622/230 WEBS

NOTES-(10-12)

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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=170. 8=178.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 12) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

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LOAD CASE(S) Standard

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



[MCT]

Job Truss Truss Type Qty Ply 11_Southeast-Girder-Int SE-18617- Cond2 COMN I49194730 ORDERS Job Reference (optional)

Frederick, MD - 21703, NVR.

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:29 2021 Page 2 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-2GQ95G7Wv3uvO3bzsgaHB_8JbFZJM5Gu2kVxtgyAa4e

LOAD CASE(S) Standard

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

Vert: 2-13=-60(B=-40), 8-13=-70(B=-50), 1-5=-80, 5-9=-80



818 Soundside Road Edenton, NC 27932

Truss Truss Type Job Qty Ply 11 Southeast-Girder-Int SE-18617- Cond3 149194730 СОМИ **ORDERS** Job Reference (optional) Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:29 2021 Page 1 NVR. ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-2GQ95G7Wv3uvO3bzsgaHB_8JbFZJM5Gu2kVxtgyAa4e 0-11-4 10-0-0 4-11-13 15-0-3 20-0-0 20-11-4 4-11-13 4-11-13 5-0-3 5-0-3 Scale = 1:55.8 4x6 =15

10.00 12 3x6 // 3x6 📏 4 3x4 // 3x4 🛇 3x4 3x4 N 13 12 11 10 3x6 || 3x6 || 3x4 || 8x8 = 3x4 || 4-11-13 10-0-0 15-0-3 20-0-0

5-0-3

4-11-13

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

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

4-11-13 Plate Offsets (X,Y)-- [2:0-2-12,0-0-12], [8:0-3-1,0-0-12], [11:0-4-0,0-4-8]

LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.45 BC 0.20 WB 0.22	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.02 11-12 -0.04 11-12 0.01 8	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL)	0.01 11	>999	240	Weight: 287 lb	FT = 5%

BRACING-

TOP CHORD

BOT CHORD

5-0-3

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 3-2-0,

Right 2x4 SP or SPF No.3 or Stud 3-2-0

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

Max Horz 2=232(LC 9)

Max Uplift 2=-178(LC 10), 8=-170(LC 11) Max Grav 2=1609(LC 17), 8=1559(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1875/211, 4-5=-1324/246, 5-6=-1324/246, 6-8=-1831/203 **BOT CHORD** 2-12=-187/1311, 11-12=-187/1311, 10-11=-77/1279, 8-10=-77/1279

NOTES-(10-12)

WEBS

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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4-12=0/346, 5-11=-182/1028, 6-10=0/311, 4-11=-622/229, 6-11=-579/224

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=178. 8=170.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
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LOAD CASE(S) Standard

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

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



[MCT]

Job Truss Truss Type Qty Ply 11_Southeast-Girder-Int SE-18617- Cond3 COMN I49194730 ORDERS Job Reference (optional)

Frederick, MD - 21703, NVR.

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:29 2021 Page 2 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-2GQ95G7Wv3uvO3bzsgaHB_8JbFZJM5Gu2kVxtgyAa4e

LOAD CASE(S) Standard

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

Vert: 2-13=-70(B=-50), 8-13=-60(B=-40), 1-5=-80, 5-9=-80



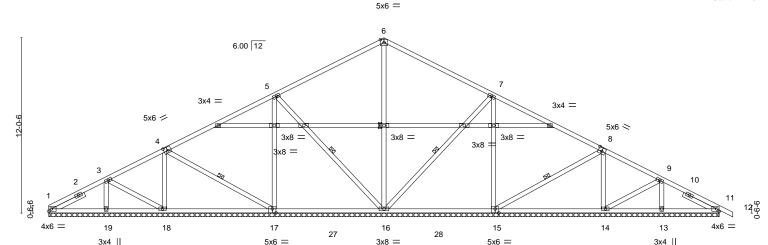
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply 10 Southeast 149194695 **ORDERS** SE-18618 COMN Job Reference (optional)

Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:04 2021 Page 1

ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-1vn0FC5BwyBzh?beNJYLE37kG_Wzxa5OV0QxO5yAa5z 23-0-0 30-6-5 38-0-10 42-0-12 46-0-0 46-11_r4 3-11-4 7-11-6 15-5-11 3-11-4 7-6-5 7-6-5 4-0-2 3-11-4 0-11-4 4-0-2 7-6-5 7-6-5

Scale = 1:79 1



3-11-4 3-11-4 Plate Offsets (X,Y)	7-11-6 15-5 4-0-2 7-6 [4:0-3-0,0-3-0], [8:0-3-0,0-3-0	-5	23-0-0 7-6-5)-3-0,0-3-4]	30-6-5 7-6-5	+	38-0 7-6		4-0-2	46-0-0 3-11-4
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL 1 Lumber DOL 1	.15 BC	0.42 Ver	FL. in t(LL) 0.00 t(CT) 0.00 rz(CT) 0.01	(loc) 12 12 11	l/defl L/d n/r 120 n/r 120 n/a n/a	MT.	ATES 20	GRIP 197/144
BCDL 10.0	Code IBC2021/TPI201	4 Matrix	-S				We	ight: 313 lb	FT = 5%

LUMBER-

NVR.

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER

Left 2x4 SP or SPF No.3 or Stud 2-6-0, Right 2x4 SP or SPF No.3 or Stud 2-6-0 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 6-16, 7-16, 8-15, 5-16, 4-17

REACTIONS. All bearings 46-0-0.

(lb) - Max Horz 1=-209(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 14, 13, 19, 11 except 16=-116(LC 10), 17=-107(LC 10),

18=-105(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 1 except 16=749(LC 1), 15=565(LC 26), 14=471(LC 1), 13=269(LC 24), 17=567(LC 25), 18=471(LC 1), 19=271(LC 23), 11=257(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 6-16=-411/49, 7-15=-369/132, 8-14=-345/122, 5-17=-370/159, 4-18=-344/150 WEBS

NOTES-(8-11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 14, 13, 19, 11 except (jt=lb) 16=116, 17=107, 18=105.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 10) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.
- 11) Framing and bracing of the gable end frame shall be provided by the building designer.





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Job Qty 10 Southeast SE-18619- Cond1 150924401 COMN **ORDERS** Job Reference (optional)

Frederick MD - 21703

23-0-0

7-6-5

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:13 2022 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-x6qJ40_Suhp_c5QXS9JfBvRGvzJ4fKXUV?E_ypzYLI8 46-0-0 46-11_r4 30-6-5 38-0-10 42-0-12 4-0-2 3-11-4 7-6-5

Structural wood sheathing directly applied or 3-2-5 oc purlins.

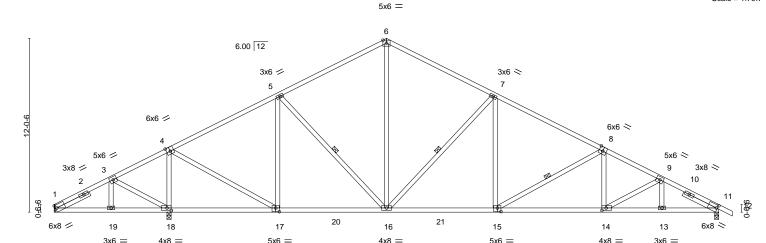
7-16, 8-15, 5-16

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

1 Row at midpt

Scale = 1:79.7

[MCT]



	3-11-4	7-9-10 7-1,1-6	15-5-11	1	23-0-0		30-6-5	1	38-0-10	42-0-12	46-0-0
	3-11-4	3-10-6 0-1-12	7-6-5	1	7-6-5	1	7-6-5	1	7-6-5	4-0-2	3-11-4
Plate Offse	ets (X,Y)	[1:Edge,0-2-10], [4:0-3-0	,Edge], [8:0-3-	0,Edge], [11	:0-1-0,0-2-10],	[14:0-3-8,0-2-0],	[15:0-3-0,0-3-0], [17:0-3-	-0,0-3-0], [18:0-3	3-8,0-2-0]	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.15 15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.28 15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.07 11	n/a	n/a		
BCDL	10.0	Code IBC2021/TF	PI2014	Matri	x-S	Wind(LL)	0.10 14-15	>999	240	Weight: 280 lb	FT = 5%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2D

NVR.

3-11-4

3-11-4

7-11-6

4-0-2

15-5-11

7-6-5

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

REACTIONS. (size) 1=Mechanical, 18=0-3-8, 11=0-3-8

Max Horz 1=-209(LC 11)

Max Uplift 1=-120(LC 26), 18=-303(LC 10), 11=-243(LC 11) Max Grav 1=98(LC 23), 18=2218(LC 1), 11=1516(LC 1)

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

TOP CHORD 1-3=-89/392, 3-4=-111/663, 4-5=-1151/224, 5-6=-1301/321, 6-7=-1301/292,

7-8=-1951/341, 8-9=-2442/393, 9-11=-2597/388

BOT CHORD 1-19=-323/207, 18-19=-323/207, 17-18=-530/220, 16-17=-82/972, 15-16=-42/1661,

14-15=-218/2171, 13-14=-270/2193, 11-13=-270/2193

WEBS 6-16=-130/712, 7-16=-883/299, 7-15=-5/528, 8-15=-589/201, 8-14=0/268, 5-16=-32/299,

5-17=-673/146, 4-17=-105/1682, 4-18=-1927/324, 3-18=-325/109

NOTES-(7-9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 1, 303 lb uplift at joint 18 and 243 lb uplift at joint 11.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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Job Qty 10 Southeast SE-18619- Cond2 150924401 СОМИ **ORDERS** Job Reference (optional) NVR.

Frederick MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:14 2022 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-QIOhIM_5f?xrDF?k?squk7_RTMeLOmodkfzXUGzYLI7

Structural wood sheathing directly applied or 1-11-14 oc purlins.

7-16, 8-15, 5-16

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

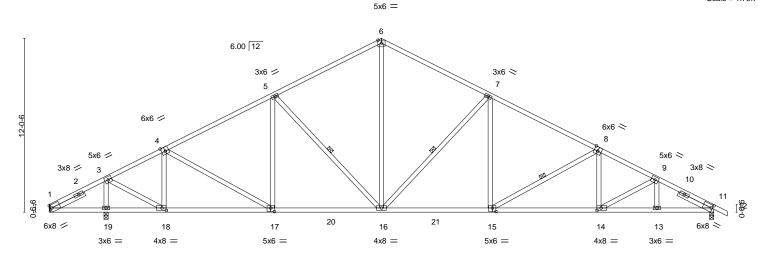
6-0-0 oc bracing: 1-19,18-19.

1 Row at midpt

42-0-12 46-0-0 46-11_r4 23-0-0 30-6-5 38-0-10 3-11-4 7-11-6 15-5-11 3-11-4 4-0-2 7-6-5 7-6-5 4-0-2 3-11-4 7-6-5

Scale = 1:79.7

[MCT]



38-0-10 42-0-12 46-0-0
7-6-5 4-0-2 3-11-4
.0-3-0], [18:0-3-8,0-2-0]
L/d PLATES GRIP
360 MT20 197/144
240
n/a
240 Weight: 280 lb FT = 5%
,

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2D

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

(size) 1=Mechanical, 19=0-3-8, 11=0-3-8

Max Horz 1=-209(LC 11)

Max Uplift 1=-402(LC 17), 19=-340(LC 10), 11=-253(LC 11) Max Grav 1=75(LC 10), 19=2429(LC 1), 11=1692(LC 1)

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

TOP CHORD 1-3=-205/1075, 3-4=-1216/170, 4-5=-1904/265, 5-6=-1685/342, 6-7=-1685/313, 7-8=-2330/362, 8-9=-2807/413, 9-11=-2941/407

BOT CHORD 1-19=-883/196, 18-19=-883/196, 17-18=-199/1051, 16-17=-171/1621, 15-16=-60/2000,

14-15=-236/2499, 13-14=-286/2489, 11-13=-286/2489

6-16=-148/1042, 7-16=-878/299, 7-15=-5/523, 8-15=-581/201, 8-14=0/255,

WEBS 5-16=-421/223, 4-17=-9/687, 4-18=-951/195, 3-18=-243/2199, 3-19=-2316/370

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 402 lb uplift at joint 1, 340 lb uplift at joint 19 and 253 lb uplift at joint 11.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Job Qty 10 Southeast SE-18619- Cond3 150924401 СОМИ **ORDERS** Job Reference (optional) NVR. Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:14 2022 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-QIOhIM_5f?xrDF?k?squk7_RTMeLOmldkfzXUGzYLI7 23-0-0 38-0-10 42-0-12 46-0-0 3-11-4 7-11-6 15-5-11 30-6-5 46-11₁4 3-11-4 7-6-5 3-11-4 4-0-2 7-6-5 7-6-5 4-0-2 Scale = 1:77 1 5x6 = 6 6.00 12 3x6 🖊 3x6 <> 6x6 / 6x6 > 8 5x6 / 5x6 > 3x8 🖊 9 3x8 < 3 10 9-9-0 20 21 6x8 / 6x8 19 18 17 16 15 13 3x6 = 4x8 = 5x6 = 4x8 = 5x6 = 4x8 3x6 7-9-10 7-11-6 3-10-6 0-1-12 46-0-0 3-11-4 15-5-11 23-0-0 30-6-5 38-0-10 42-0-12 3-11-4 7-6-5 7-6-5 7-6-5 7-6-5 4-0-2 3-11-4 Plate Offsets (X,Y) [1:Edge,0-2-10], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-0,0-2-10], [14:0-3-8,0-2-0], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [18:0-3-8,0-2-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.18 15-16 >999 360 197/144 MT20 BC 0.76 TCDL 10.0 Lumber DOL 1.15 Vert(CT) -0.35 15-16 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.95 Horz(CT) 0.09 11 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.12 15 >999 240 Weight: 280 lb FT = 5%LUMBER-**BRACING-**[MCT] TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins. BOT CHORD 2x4 SP No.2D **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

6-0-0 oc bracing: 1-19,18-19.

WEBS 1 Row at midpt 7-16, 8-15, 5-16

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

(lb) -Max Horz 1=-209(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-397(LC 17), 19=-342(LC 10), 11=-253(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1 except 19=2429(LC 1), 19=2429(LC 1), 11=1691(LC 1)

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

TOP CHORD 1-3=-210/1085, 3-4=-1210/170, 4-5=-1902/265, 5-6=-1684/341, 6-7=-1684/313,

7-8=-2329/362, 8-9=-2806/413, 9-11=-2940/407

BOT CHORD 1-19=-895/196, 18-19=-895/196, 17-18=-197/1046, 16-17=-171/1619, 15-16=-60/1999,

14-15=-235/2498, 13-14=-286/2488, 11-13=-286/2488

WEBS 6-16=-148/1041, 7-16=-878/299, 7-15=-5/523, 8-15=-581/201, 8-14=0/255,

5-16=-419/222, 4-17=-9/689, 4-18=-955/196, 3-18=-246/2207, 3-19=-2317/373

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 1, 342 lb uplift at joint 19 and 253 lb uplift at joint 11.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Truss Job Qty 10 Southeast SE-18619- Cond4 150924401 СОМИ **ORDERS** Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:14 2022 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-QIOhIM_5f?xrDF?k?squk7_OhMdFOr3dkfzXUGzYLI7 Frederick, MD - 21703 NVR. 42-0-12 23-0-0 38-0-10 46-0-0 3-11-4 7-11-6 15-5-1 30-6-5 46-11-4 3-11-4 7-6-5 4-0-2 3-11-4 4-0-2 7-6-5 7-6-5 Scale = 1:76.6 5x6 = 6 6.00 12 3x6 / 3x6 > 5 6x6 = 6x6 > 8 5x6 / 5x6 ≥ 9 3x8 < 3x8 / 3 10 9-9-0 20 21 6x8 🖊 6x8 > 19 18 17 16 15 13 3x6 = 4x8 = 5x6 = 4x8 = 5x6 = 4x8 = 3x6 = 3-11-4 7-9-10 7-11-6 15-5-11 23-0-0 30-6-5 38-0-10 42-0-12 46-0-0 3-10-6 0-1-12 3-11-4 7-6-5 7-6-5 7-6-5 7-6-5 4-0-2 3-11-4 Plate Offsets (X,Y) [1:Edge,0-2-10], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-0,0-2-10], [14:0-3-8,0-2-0], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [18:0-3-8,0-2-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.94 Vert(LL) -0.24 16-17 >999 360 197/144 MT20 BC 0.83 -0.48 16-17 TCDL 10.0 Lumber DOL 1.15 Vert(CT) >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.61 Horz(CT) 0.18 11 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.18 16-17 >999 240 Weight: 280 lb FT = 5%LUMBER-**BRACING-**[MCT] TOP CHORD Structural wood sheathing directly applied.

BOT CHORD

WEBS

Rigid ceiling directly applied or 8-9-6 oc bracing.

7-16, 8-15, 5-16, 4-17

1 Row at midpt

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2D

WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=-209(LC 15)

Max Uplift 1=-235(LC 10), 11=-259(LC 11) Max Grav 1=1828(LC 1), 11=1894(LC 1)

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

TOP CHORD 1-3=-3348/424, 3-4=-3232/430, 4-5=-2767/377, 5-6=-2126/356, 6-7=-2126/356,

7-8=-2765/376, 8-9=-3226/427, 9-11=-3334/420

1-19=-508/2844, 18-19=-508/2844, 17-18=-456/2881, 16-17=-279/2391, 15-16=-105/2389, **BOT CHORD**

14-15=-248/2876, 13-14=-298/2829, 11-13=-298/2829

6-16=-162/1416, 7-16=-872/299, 7-15=-4/517, 8-15=-571/200, 5-16=-874/299, WEBS

5-17=-5/518. 4-17=-576/202

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 1 and 259 lb uplift at joint 11.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Job Qty 10 Southeast SE-18620- Cond1 149194697 COMN **ORDERS** Job Reference (optional)

7-6-5

5x7 =

6-0-0 oc bracing: 2-20,19-20.

1 Row at midpt

23-0-0

7-6-5

NVR Frederick, MD - 21703 3-11-4

3-11-4

7-11-6

4-0-2

15-5-11

7-6-5

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:14 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-krOoLdDTZ0RYuXMZzQkheAXQL0piH1UspZrTkWyAa5p 38-0-10 42-0-12 46-0-0 30-6-5 46-11-4

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

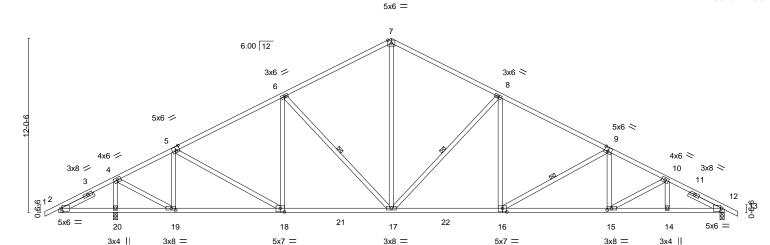
8-17, 9-16, 6-17

4-0-2

0-11-4 Scale = 1:79 6

[MCT]

3-11-4



	3-1 1-4 7-11-6	15-5-11	+ 23-0-0	30-6-5	38-0-10	42-0-12 46-0-0
	0-1-12 4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2 3-11-4
	[2:0-0-15,0-2-8], [[5:0-3-0,0-3-4], [9:0-3-6	0,0-3-4], [12:0-0-15,0-2-8], [1	15:0-3-8,0-1-8], [16:0-3-8,0-3-0], [18:0-3-8,0-3-0], [19:	:0-3-8,0-1-8]
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip Lumber DO Rep Stress Code IBC2	DOL 1.15 DL 1.15	CSI. TC 0.78 BC 0.85 WB 0.81 Matrix-S	DEFL. in (loc) Vert(LL) -0.20 16-17 Vert(CT) -0.38 16-17 Horz(CT) 0.12 12 Wind(LL) 0.13 16	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 Weight: 282 lb FT = 5%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied.

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud

3x4 ||

SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

REACTIONS. (size) 20=0-3-8, 12=0-3-8

Max Horz 20=-205(LC 15)

Max Uplift 20=-282(LC 10), 12=-251(LC 11) Max Grav 20=2068(LC 1), 12=1722(LC 1)

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

TOP CHORD 2-4=-105/443, 4-5=-1516/192, 5-6=-2032/276, 6-7=-1750/337, 7-8=-1750/309, 8-9=-2394/357, 9-10=-2869/409, 10-12=-3000/403

2-20=-337/135, 19-20=-337/235, 18-19=-241/1341, 17-18=-189/1735, 16-17=-59/2058,

BOT CHORD 15-16=-232/2554, 14-15=-283/2539, 12-14=-283/2539

WFBS 7-17=-144/1104, 8-17=-877/299, 8-16=-5/522, 9-16=-578/201, 9-15=0/252, 6-17 = -465/235, 5-18 = -22/498, 5-19 = -794/171, 4-19 = -194/1885, 4-20 = -1971/314

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 20 and 251 lb uplift at joint 12.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.





Job Truss Truss Type Qty 10 Southeast |SE-18620- Cond2 149194697 СОМИ **ORDERS** Job Reference (optional)

23-0-0

7-6-5

NVR Frederick, MD - 21703 3-11-4

3-11-4

7-11-6

4-0-2

15-5-11

7-6-5

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:14 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-krOoLdDTZ0RYuXMZzQkheAXQO0phH1VspZrTkWyAa5p

42-0-12 46-0-0 46-11_r4 38-0-10 30-6-5 4-0-2 3-11-4 7-6-5

Structural wood sheathing directly applied.

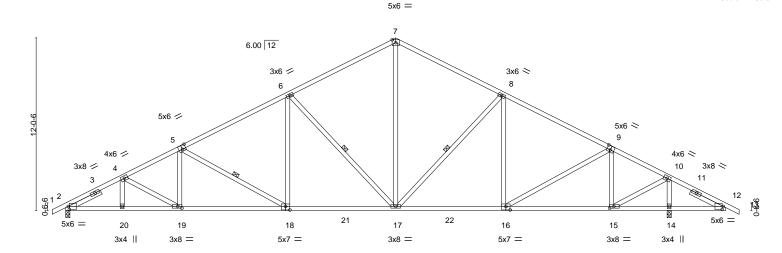
1 Row at midpt

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

8-17, 6-17, 5-18

Scale = 1.80.3

[MCT]



	3-11-4 7-11-6 0-1-12 4-0-2	15-5-11 7-6-5	23-0-0 7-6-5	30-6-5 7-6-5	38-0-10 7-6-5	42-0-12 46-0-0 4-0-2 3-11-4
Plate Offsets (X,Y)	[2:0-0-15,0-2-8], [5:0-3-0,0-3-4], [9:0-3-0	0,0-3-4], [12:0-0-15,0-2-8]	, [15:0-3-8,0-1-8], [16:0-3-8,0-3	-0], [18:0-3-8,0-3-0], [19	9:0-3-8,0-1-8]
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip I Lumber DO Rep Stress Code IBC2	DOL 1.15 DL 1.15	CSI. TC 0.78 BC 0.85 WB 0.81 Matrix-S	DEFL. in (loc) Vert(LL) -0.20 17-18 Vert(CT) -0.38 17-18 Horz(CT) 0.12 14 Wind(LL) 0.14 18	>999 360 >999 240 n/a n/a	PLATES GRIP MT20 197/144 Weight: 282 lb FT = 5%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 **WEBS** 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

REACTIONS. (size) 2=0-3-8, 14=0-3-8

Max Horz 2=-205(LC 15)

Max Uplift 2=-251(LC 10), 14=-282(LC 11) Max Grav 2=1722(LC 1), 14=2068(LC 1)

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

TOP CHORD 2-4=-2999/401, 4-5=-2870/409, 5-6=-2395/357, 6-7=-1750/309, 7-8=-1750/337, 8-9=-2031/276, 9-10=-1515/192, 10-12=-104/443

BOT CHORD 2-20=-486/2539, 19-20=-486/2539, 18-19=-437/2557, 17-18=-262/2058, 16-17=-71/1735,

15-16=-53/1323, 14-15=-337/134, 12-14=-337/134 WEBS 7-17=-145/1104, 8-17=-465/235, 9-16=-21/494, 9-15=-793/170, 10-15=-192/1883,

10-14=-1971/314, 6-17=-877/299, 6-18=-4/522, 5-18=-580/201, 5-19=0/252

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 282 lb uplift at joint 14.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Truss Type Job Truss Qty Ply 10 Southeast 149194698 **ORDERS** SE-18621 COMN Job Reference (optional)

NVR. Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:15 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-C1xAZyD5KKZPWhxIX7FwBO4i3QFk0ca?1Da0GyyAa5o

-0-11-4 0-11-4 4-10-10 10-0-0 20-0-0 20-11-4 0-11-4 15-1-6 4-10-10 4-10-10 5-1-6 5-1-6

> Scale = 1.54.04x6 =

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

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

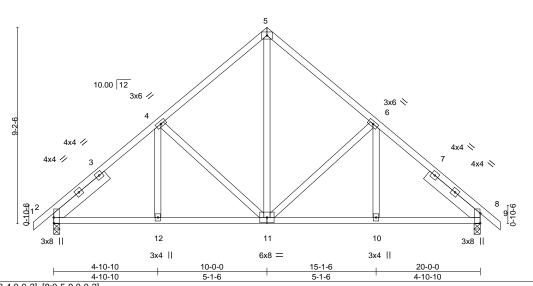


Plate Offsets (X,Y)--[2:0-3-4,0-0-2], [8:0-5-9,0-0-2]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.02 1	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.06 1	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.03	8	n/a	n/a		
BCDL	10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.02	11	>999	240	Weight: 133 lb	FT = 5%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud WEBS 2x4 SP No.3 or 2x4 SPF Stud

SLIDER Left 2x6 SP No.2 3-2-8, Right 2x6 SP No.2 3-2-8

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-232(LC 8)

Max Uplift 2=-102(LC 10), 8=-102(LC 11) Max Grav 2=856(LC 1), 8=856(LC 1)

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

TOP CHORD 2-4=-983/123, 4-5=-702/192, 5-6=-702/192, 6-8=-982/122 **BOT CHORD** 2-12=-125/736, 11-12=-125/736, 10-11=-19/664, 8-10=-19/664

WEBS 5-11=-112/482, 4-11=-323/201, 6-11=-324/202

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 102 lb uplift at joint 8.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.





Job Truss Truss Type Qty Ply 10 Southeast 149194699 **ORDERS** SE-18622 COMN Job Reference (optional)

NVR. Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:17 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-9Q3w_eFLsxp7I?58eYHOGp94bD_FUYMIVX37LryAa5m

-0-11-4 0-11-4 10-0-0 20-0-0 20-11-4 0-11-4 10-0-0 10-0-0

4x6 =

Scale = 1:57.3

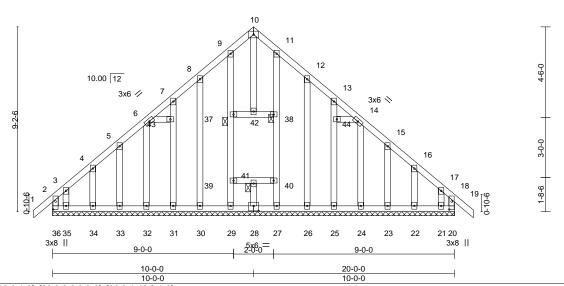


Plate Offsets (X,Y)--[20:0-4-12,0-1-8], [28:0-3-0,0-3-0], [36:0-4-12,0-1-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d Plate Grip DOL 20.0 1.15 TC 0.20 Vert(LL) -0.0019 120 197/144 TCLL n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.22 Vert(CT) -0.0019 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.01 20 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Weight: 178 lb FT = 5%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud except end verticals. WEBS 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Brace at Jt(s): 37, 38, 41 2x4 SP No.3 or 2x4 SPF Stud **JOINTS OTHERS**

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 36=-232(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 30, 31, 32, 33, 34, 26, 25, 24, 23, 22 except 36=-201(LC 8),

20=-134(LC 9), 35=-304(LC 10), 21=-275(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 29, 27, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 28 except 36=380(LC 10), 20=335(LC 11)

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

TOP CHORD 2-3=-309/194, 17-18=-274/142

NOTES-(11-13)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 31, 32, 33, 34, 26, 25, 24, 23, 22 except (jt=lb) 36=201, 20=134, 35=304, 21=275.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 12) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 13) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12,2022



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 Ply 10 Southeast 149194700 **ORDERS** SE-18623 COMN Job Reference (optional)

Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:19 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-5oBhOKHcOZ4r?JEWmzKsLEFIV1dgyNrbyrYEPjyAa5k 42-0-12 23-0-0 30-6-5 38-0-10 46-0-0 3-11-4 7-11-6 15-5-11 3-11-4 7-6-5 4-0-2 3-11-4 4-0-2 7-6-5 7-6-5 7-6-5

Scale = 1:79.2

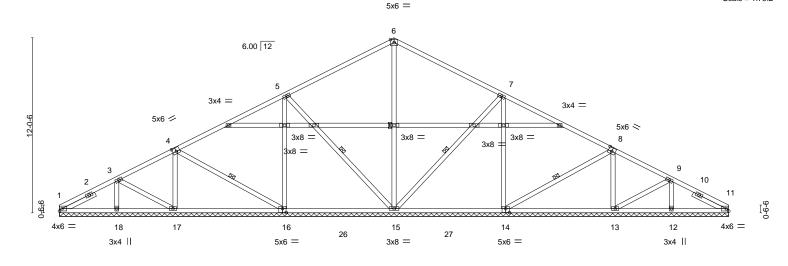


Plate Off	3-11-4 sets (X,Y)	4-0-2 [4:0-3-0,0-3-0], [8:0-3-0	7-6-5 0-3-0] [14:0-3-		7-6-5 3-0 0-3-41	7	'-6-5			7-6-5	4-0-2	3-11-4
			<u> </u>		0 0,0 0 1]	DEEL		<i>(</i> 1)	1/1.0		DI ATEO	ODID
LOADING TCLL	(pst) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.75	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		0.41	Vert(CT)	n/a	-	n/a	999	11120	1077111
BCLL	0.0 *	Rep Stress Incr	YES	WB (0.48	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IBC2021/	TPI2014	Matrix-S	S						Weight: 312 lb	FT = 5%

23-0-0

LUMBER-

NVR.

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER

Left 2x4 SP or SPF No.3 or Stud 2-6-0, Right 2x4 SP or SPF No.3 or Stud 2-6-0

7-11-6

BRACING-

30-6-5

TOP CHORD **BOT CHORD** WEBS

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

42-0-12

46-0-0

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-15, 7-15, 8-14, 5-15, 4-16

38-0-10

REACTIONS. All bearings 46-0-0.

3-11-4

(lb) - Max Horz 1=201(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 13, 12, 18, 11 except 16=-106(LC 10), 15=-118(LC 10),

17=-105(LC 10)

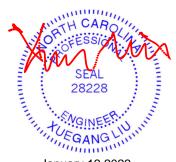
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=562(LC 25), 15=744(LC 1), 14=562(LC 26), 13=476(LC 1), 12=271(LC 24), 17=476(LC 1), 18=271(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 6-15=-412/50, 7-14=-369/134, 8-13=-346/124, 5-16=-369/160, 4-17=-346/152 WEBS

15-5-11

NOTES-(8-11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 13, 12, 18, 11 except (jt=lb) 16=106, 15=118, 17=105.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 10) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.
- 11) Framing and bracing of the gable end frame shall be provided by the building designer.





Job Truss Truss Type Qty Ply 10 Southeast 149194701 **ORDERS** SE-18624 COMN Job Reference (optional)

7-6-5

Frederick, MD - 21703

23-0-0

7-6-5

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:20 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-Z_I3cgHE8sCicTpiJgr5uRnQFRr4ho6kBVInyAyAa5j 46-0-0 38-0-10 42-0-12 30-6-5

Scale = 1:79.2

4-0-2

3-11-4

5x6 =

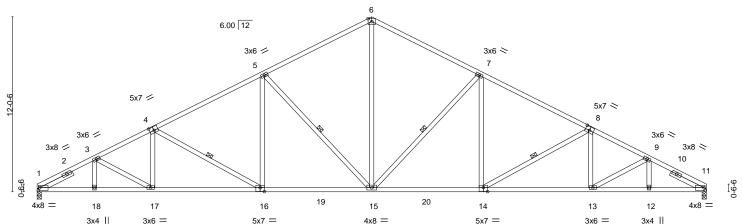
7-6-5

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 8-2-5 oc bracing.

7-15, 8-14, 5-15, 4-16



	3-11-4	7-11-6	15-5-11		23-0-0	-		30-6-5		38-0-10	42-0-12	46-0-0
	3-11-4	4-0-2	7-6-5		7-6-5			7-6-5		7-6-5	4-0-2	3-11-4
Plate Offse	ets (X,Y)	[1:0-1-1,0-2-4], [4:0-3-	8,0-3-0], [8:0-3-8	<u>,0-3-0], [11:0</u>)-1-1,0-2-4 <u>],</u>	[14:0-3-	8,0-3-4], [1	6:0-3-8,0-3-	4]			
LOADING	(psf)	SPACING-	2-0-0	CSI.			DEFL.	in (lo	c) I/d	efl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94		Vert(LL)	-0.26 14-1	15 >99	9 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91		Vert(CT)	-0.52 14-1	15 >99	9 240		
BCLL	0.0 *	Rep Stress Inci	YES	WB	0.61		Horz(CT)	0.20	11 r	/a n/a		
BCDL	10.0	Code IBC2021	/TPI2014	Matri	x-S		Wind(LL)	0.19 15-1	16 >99	9 240	Weight: 279 lb	FT = 5%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

NVR.

3-11-4

3-11-4

7-11-6

4-0-2

15-5-11

7-6-5

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,

Right 2x4 SP or SPF No.3 or Stud 2-6-0

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=-201(LC 15)

Max Uplift 1=-235(LC 10), 11=-235(LC 11) Max Grav 1=1828(LC 1), 11=1828(LC 1)

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

TOP CHORD 1-3=-3350/424, 3-4=-3234/430, 4-5=-2769/377, 5-6=-2127/357, 6-7=-2127/357,

7-8=-2769/377, 8-9=-3233/430, 9-11=-3351/425 **BOT CHORD**

1-18=-512/2845, 17-18=-512/2845, 16-17=-460/2883, 15-16=-284/2392, 14-15=-109/2392, 13-14=-259/2882, 12-13=-312/2846, 11-12=-312/2846

6-15=-162/1417, 7-15=-874/299, 7-14=-5/518, 8-14=-575/202, 5-15=-874/299, 5-16=-5/518, 4-16=-576/202

NOTES-(6-8)

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=235, 11=235
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



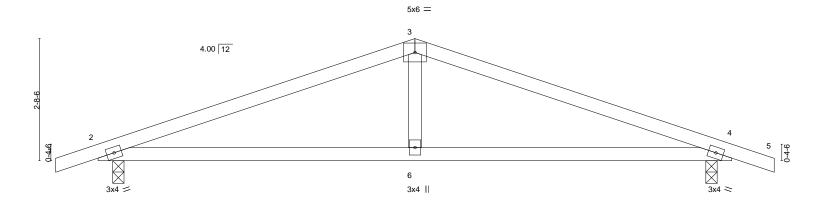


Truss Type 10_Southeast Job Truss Qty Ply 149194702 **ORDERS** SE-18625 COMN Job Reference (optional) NVR.

Frederick, MD - 21703.

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:21 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-1BJRp0lsvAKZEcOvtOMKQfKdrqHfQMquQ91LUcyAa5i 7-0-0 14-0-0 14-11-4 -0-11-4 0-11-4 7-0-0 0-11-4

Scale = 1:25.5



0 ₇ 3-14 0-3-14	7-0-0 6-8-2		-				13-8-2 6-8-2		14-0-0 0-3-14	
LOADING (psf) TCLL 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 IBC2021/TPI2014	CSI. TC 0.76 BC 0.57 WB 0.13 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.14 0.02 0.05	(loc) 2-6 2-6 4 2-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 49 lb	GRIP 197/144 FT = 5%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2 **WEBS** 2x4 SP No.3 or 2x4 SPF Stud

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

Max Horz 2=-45(LC 11)

Max Uplift 2=-129(LC 6), 4=-129(LC 7) Max Grav 2=614(LC 1), 4=614(LC 1)

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

TOP CHORD 2-3=-1018/122, 3-4=-1018/121 **BOT CHORD** 2-6=-65/899, 4-6=-65/899

WEBS 3-6=0/332

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 4=129,
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Structural wood sheathing directly applied or 3-5-6 oc purlins.

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

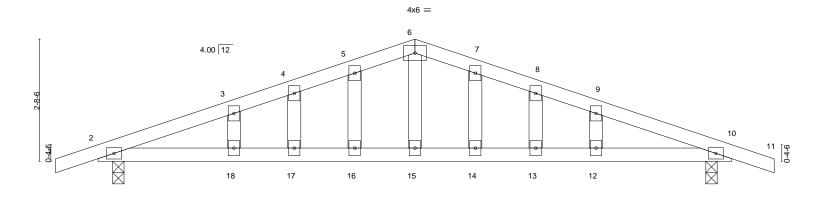


Job Truss Truss Type Qty Ply 10 Southeast 149194703 **ORDERS** SE-18626 COMN Job Reference (optional)

NVR. Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:22 2021 Page 1 ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-VNsp1MJUgUSPsmz5R5tZzstpLEaE9oW1epnu02yAa5h 7-0-0 14-11-4 -0-11-4 14-0-0 0-11-4 7-0-0 0-11-4

Scale = 1:25.5



0 ₇ 3-14 0-3-14	7-0-0 6-8-2		+	13-8-2 6-8-2	14-0-0 0-3-14
LOADING (psf) TCLL 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 IBC2021/TPI2014	CSI. TC 0.65 BC 0.74 WB 0.17 Matrix-S	DEFL. in Vert(LL) -0.11 1 Vert(CT) -0.18 1 Horz(CT) 0.02 Wind(LL) 0.10 1	(loc) I/defl L/d 2-13 >999 360 2-13 >916 240 10 n/a n/a	PLATES GRIP MT20 197/144 Weight: 60 lb FT = 5%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

WEBS 2x4 SP No.3 or 2x4 SPF Stud **OTHERS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS.

(size) 2=0-3-0, 10=0-3-0

Max Horz 2=-45(LC 15)

Max Uplift 2=-129(LC 6), 10=-129(LC 7) Max Grav 2=614(LC 1), 10=614(LC 1)

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

TOP CHORD 2-3=-1034/115, 3-4=-985/132, 4-5=-967/141, 5-6=-965/155, 6-7=-965/155,

7-8=-967/140, 8-9=-985/132, 9-10=-1034/114

BOT CHORD 2-18=-81/928, 17-18=-81/928, 16-17=-81/928, 15-16=-81/928, 14-15=-81/928,

13-14=-81/928, 12-13=-81/928, 10-12=-81/928

WEBS 6-15=-46/390

NOTES-(9-11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 10=129.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 11) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Structural wood sheathing directly applied or 4-5-11 oc purlins.

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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 02 Valley 147779325 **ORDERS** VT-95514 VCOM Job Reference (optional)

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:18 2021 Page 1 ID:k1_gl8vEn3N?lqk4KcCp_5yUXze-hOinwQjQAsOHhXPr?zpUsu1WiV2g2eqESiFOcXygS2? 14-0-0

7-0-0 14-11-4 0-11-4 7-0-0

4x6 =

Scale = 1:44.2

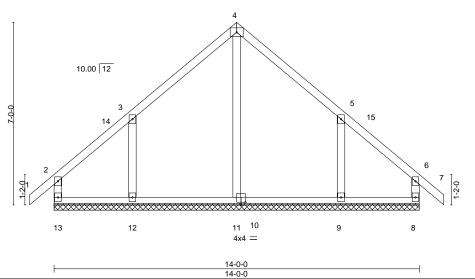


Plate Offsets (X,Y) [1	0:0-2-0,0-1-4]
------------------------	----------------

(Roof Snow=30. TCDL 1	0.0 .0) 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.68 0.20 0.30	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 0.00	(loc) 6 6	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144	
	0.0	Code IBC2021/TI		Matri		1.0.2(0.)	0.00	Ü	.,α		Weight: 73 lb	FT = 5%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No 3 or 2x4 SPF Stud

BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

WFBS 2x4 SP No.3 or 2x4 SPF Stud

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

All bearings 14-0-0. REACTIONS.

(lb) -Max Horz 13=-224(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 13=-124(LC 13), 12=-305(LC 12), 9=-301(LC 13),

8=-115(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 13, 8 except 11=409(LC 20), 12=555(LC 19), 9=555(LC 20)

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

TOP CHORD 3-4=-200/264, 4-5=-200/255

WEBS 4-11=-325/27, 3-12=-487/328, 5-9=-487/326

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 3x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 13, 305 lb uplift at joint 12, 301 lb uplift at joint 9 and 115 lb uplift at joint 8.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.

Junimmun (

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

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

except end verticals.

September 16,2021



Job Truss Truss Type Qty Ply 02 Valley 147779326 **ORDERS** VT-95515 VCOM Job Reference (optional)

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:19 2021 Page 1 ID:k1_gl8vEn3N?lqk4KcCp_5yUXze-9aG98mj2xAW8Jh_2ZgKjP5ahRvLVn3TNhM_x8_ygS2_

7-0-0 14-0-1 7-0-0 7-0-1

4x6 =

Scale = 1:50.1

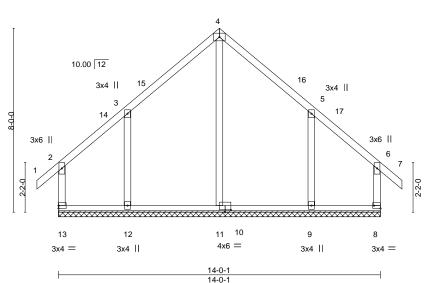


Plate Offsets (X,Y)-- [8:Edge,0-1-8], [10:0-3-0,0-1-4]

LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.68 BC 0.41	DEFL. Vert(LL) Vert(CT)	in 0.00 -0.00	(loc) 6 6	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 197/144	
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IBC2021/TPI2014	WB 0.40 Matrix-R	Horz(CT)	-0.00	8	n/a	n/a	Weight: 81 lb	FT = 5%	

LUMBER-TOP CHORD 2x4 SP No 3 or 2x4 SPF Stud

BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

WFBS 2x4 SP No.3 or 2x4 SPF Stud

OTHERS 2x4 SP No.3 or 2x4 SPF Stud BRACING-

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

except end verticals.

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

REACTIONS. All bearings 14-0-1.

(lb) -Max Horz 13=-320(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 13=-171(LC 8), 12=-312(LC 12), 8=-165(LC 9), 9=-312(LC

Max Grav All reactions 250 lb or less at joint(s) except 13=281(LC 23), 11=415(LC 20), 12=557(LC 19),

8=277(LC 22), 9=557(LC 20)

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

TOP CHORD 3-4=-241/409, 4-5=-241/409

WEBS 4-11=-332/79, 3-12=-486/332, 5-9=-486/332

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-7-15 to 4-7-15, Interior(1) 4-7-15 to 6-7-3, Exterior(2R) 6-7-3 to 12-7-3, Interior(1) 12-7-3 to 14-6-8, Exterior(2E) 14-6-8 to 17-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 13, 312 lb uplift at joint 12, 165 lb uplift at joint 8 and 312 lb uplift at joint 9.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.

A. D.

September 16,2021





Job Truss Truss Type Qty Ply 02 Valley 147779327 **ORDERS** VT-95516 VCOM Job Reference (optional) NVR, Frederick, MD - 21703, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:21 2021 Page 1 ID:k1_gl8vEn3N?lqk4KcCp_5yUXze-6zOwZSllTnmrY?8Qh5MBUWf14i_cFxgg8gT2CsygS1y 7-0-0 14-0-0 7-0-0 Scale = 1:54.5 4x6 =10.00 12 9 34 33 10 35 32 11 26 27 3x8 || 30 3x8 || 13 2-10-0 2-10-0 31 29 19 18 25 24 23 22 21 20 17 16 15 14 4x4 = 5x6 || 5x6 II

		7-0-0	1	14-0-0
		6-0 ₇ 0 ₀₋₀	2-0-0	7-060-0
Plate Offsets (X Y)	[14:Edge 0-3-8] [19:0-2-0 0-1-4] [2	5:Edge 0-0-01		

TCLL 30.0 (Roof Snow=30.0) 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 0.67 BC 0.57 WB 0.48	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 12 n/r 120 Vert(CT) -0.00 12 n/r 120 Horz(CT) -0.00 14 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S		Weight: 136 lb FT = 5%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-TOP CHORD 2x4 SP No 3 or 2x4 SPF Stud

BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud 2x4 SP No.3 or 2x4 SPF Stud WFBS

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

All bearings 14-0-0. REACTIONS. (lb) -Max Horz 25=-353(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 23, 16 except 25=-361(LC 8), 22=-141(LC 12), 14=-354(LC 9), 24=-412(LC 9), 17=-141(LC 13), 15=-405(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 22, 23, 17, 16, 20 except 25=410(LC 23), 21=265(LC 19), 18=265(LC 20), 14=404(LC 22), 24=497(LC 10), 15=490(LC 11)

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

TOP CHORD $3-4 = -130/260,\ 4-5 = -170/329,\ 5-6 = -241/454,\ 6-7 = -222/405,\ 7-8 = -222/405,\ 8-9 = -241/454,$

9-10=-170/329, 10-11=-130/260, 2-25=-279/238, 12-14=-275/238

WEBS 7-30=-289/137

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 2-5-9 to 5-5-9, Interior(1) 5-5-9 to 7-4-13, Exterior(2R) 7-4-13 to 13-4-13, Interior(1) 13-4-13 to 15-4-1, Exterior(2E) 15-4-1 to 18-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 3x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 16 except (jt=lb) 25=361, 22=141, 14=354, 24=412, 17=141, 15=405.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.

September 16,2021

y applie
6-0-0 oc bracji

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

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

except end verticals.

1 Brace at Jt(s): 26, 27



Job Truss Truss Type Qty Ply 02_Valley 162714984 VT-01061 **ORDERS VCOM** Job Reference (optional)
8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:50 2023 Page 1 NVR, Frederick, MD - 21703, ID:rGk9TmskjqsaGCQI5m7tqFyUXzi-DAAgn26jc4T0?N0jxX08gA0YWkyR3CZhK0f9Ymy6TYR 2-4-13 1-2-7 1-2-7 Scale = 1:7.8 2 10.00 12 3 3x4 // 3x4 🚿 2-4-13 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP TCLL 30.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) Lumber DOL 1.15 ВС 0.05 Vert(CT) n/a n/a 999 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 0.00 3 Horz(CT) n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 FT = 5% Matrix-P Weight: 7 lb BCDL LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

> 1=2-4-13, 3=2-4-13 (size)

Max Horz 1=23(LC 9) Max Uplift 1=-16(LC 12), 3=-16(LC 13) Max Grav 1=85(LC 18), 3=85(LC 19)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 2-4-13 oc purlins.

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

December 27,2023



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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty 02_Valley 162714985 VT-01062 **ORDERS VCOM** Job Reference (optional)
8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:51 2023 Page 1 NVR, Frederick, MD - 21703, ID:rGk9TmskjqsaGCQI5m7tqFyUXzi-hMk3_O7LNObtdXbwVEXNCNYfS8DDofpqZqPi4Dy6TYQ 2-4-13 2-4-13 2-4-13 3x4 = Scale = 1:12.7 10.00 12 3 3x4 🚿 3x4 // 4-9-10 [2:0-2-0,Edge] Plate Offsets (X,Y)--LOADING (psf) GRIP SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES TCLL** 30.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) Lumber DOL 1.15 ВС 0.33 Vert(CT) n/a n/a 999 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 0.00 3 Horz(CT) n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 FT = 5% Matrix-P Weight: 15 lb BCDL LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins. BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. 1=4-9-10, 3=4-9-10 (size)

Max Horz 1=57(LC 9)

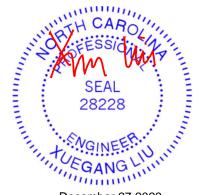
Max Uplift 1=-40(LC 12), 3=-40(LC 13)

Max Grav 1=232(LC 18), 3=232(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 27,2023



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Job Truss Truss Type Qty 02_Valley 162714986 VT-01063 **ORDERS VCOM** Job Reference (optional)
8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:51 2023 Page 1 NVR, Frederick, MD - 21703, ID:neswtSu_FS7HVWahDBALvgyUXzg-hMk3_O7LNObtdXbwVEXNCNYZf8Ggof1qZgPi4Dy6TYQ 3-7-3 3-7-3 3-7-3 Scale = 1:20.9 4x6 = 2 10.00 12 4 3x4 / 3x4 📏 3x4 || LOADING (psf) SPACING-2-0-0 DEFL **PLATES** GRIP (loc) I/defl L/d TCLL 30.0 Plate Grip DOL 999 197/144 1.15 TC 0.68 Vert(LL) n/a n/a MT20 (Roof Snow=30.0) Lumber DOL 1.15 ВС 0.18 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-P Weight: 27 lb FT = 5% BCDL 10.0 LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

TOP CHORD

REACTIONS.

2x4 SP No.3 or 2x4 SPF Stud 2x4 SP No.3 or 2x4 SPF Stud

BOT CHORD **OTHERS** 2x4 SP No.3 or 2x4 SPF Stud

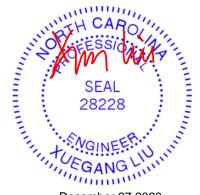
> 1=7-2-6, 3=7-2-6, 4=7-2-6 (size) Max Horz 1=-92(LC 8)

Max Uplift 1=-58(LC 13), 3=-69(LC 13), 4=-13(LC 12) Max Grav 1=257(LC 18), 3=257(LC 19), 4=271(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

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

December 27,2023



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Job Truss Truss Type Qty 02_Valley 162714987 VT-01064 VCOM **ORDERS** | Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:52 2023 Page 1 NVR, Frederick, MD - 21703, ID:GrQl5ouc0lF87g9tnuhaStyUXzf-9YIRCk8z8hjkEhA63x2clb5lUYYcX5bzoK8Gcfy6TYP 4-9-9 4-9-10 Scale = 1:26.8 4x6 = 2 10.00 12 4x4 🚿 4x4 // 3x4 II LOADING (psf) SPACING-2-0-0 DEFL (loc) **PLATES** GRIP I/defl L/d TCLL 30.0 Plate Grip DOL 999 197/144 1.15 TC 0.61 Vert(LL) n/a n/a MT20 (Roof Snow=30.0) Lumber DOL 1.15 ВС 0.39 Vert(CT) 999 n/a n/a

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

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

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

Weight: 36 lb

FT = 5%

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

> 1=9-7-3, 3=9-7-3, 4=9-7-3 Max Horz 1=-126(LC 8)

Max Uplift 1=-65(LC 13), 3=-81(LC 13), 4=-49(LC 12) Max Grav 1=355(LC 18), 3=355(LC 19), 4=421(LC 18)

Rep Stress Incr

Code IBC2021/TPI2014

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

TOP CHORD 1-2=-276/155, 2-3=-276/155

WEBS 2-4=-282/207

10.0

0.0

10.0

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

WB

Matrix-S

0.09

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



December 27,2023



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Job Truss Truss Type Qty 02_Valley 162714988 **ORDERS** VT-01065 VCOM Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:53 2023 Page 1 NVR, Frederick, MD - 21703, ID:GrQI5ouc0IF87g9tnuhaStyUXzf-dlspP48bv?rbsrllcfarHoev8xwdGXx71zup95y6TYO

6-0-0 6-0-0 Scale = 1:30.5 4x6 = 3 11 10 10.00 12

3x4 || 3x4 || 12 3x4 // 3x4 × 8 6 3x4 || 3x4 || 3x4 || 12-0-0 12-0-0

LOADING (psf) SPACING-2-0-0 DEFL **PLATES** GRIP (loc) I/defl L/d TCLL 30.0 Plate Grip DOL 197/144 1.15 TC 0.68 Vert(LL) n/a n/a 999 MT20 (Roof Snow=30.0) Lumber DOL 1.15 ВС 0.21 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 49 lb FT = 5% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD** 2x4 SP No.3 or 2x4 SPF Stud

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. All bearings 12-0-0. (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-259(LC 12), 6=-259(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=321(LC 19), 8=566(LC 18), 6=566(LC 19)

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

2-3=-263/193, 3-4=-263/193 TOP CHORD WFRS 2-8=-514/488, 4-6=-514/488

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Corner(3R) 4-9-9 to 7-2-7, Corner(3E) 7-2-7 to 11-7-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=259, 6=259



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

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

December 27,2023



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Job Truss Truss Type Qty 02_Valley 162714989 VT-01066 **ORDERS VCOM**

NVR, Frederick, MD - 21703, Job Reference (optional)
8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:55 2023 Page 1

ID:k1_gl8vEn3N?lqk4KcCp_5yUXze-Z7_ZqmAsRc5J59vhk4cJNDjFelcHkRKQUHNwD_y6TYM 14-4-13 7-2-7 7-2-7 7-2-7

> Scale = 1:36.6 4x6 =

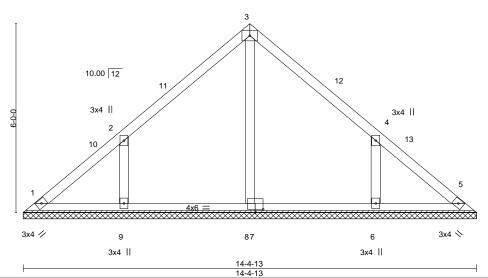


Plate Offsets (X,Y)-- [7:0-3-0,0-1-4]

	/-			=
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.68 BC 0.20 WB 0.16	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 5 n/a n/a	
BCLL 0.0 BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Weight: 62 lb FT = 5%	

LUMBER-

2x4 SP No.3 or 2x4 SPF Stud TOP CHORD BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud **OTHERS** 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

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

REACTIONS. All bearings 14-4-13.

Max Horz 1=-195(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-279(LC 12), 6=-279(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=319(LC 18), 9=577(LC 18), 6=577(LC 19)

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

TOP CHORD 2-3=-261/218, 3-4=-261/218 WEBS 2-9=-503/459, 4-6=-503/459

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Corner(3R) 4-9-9 to 9-7-4, Corner(3E) 9-7-4 to 14-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=279, 6=279.



December 27,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

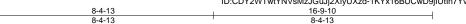
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty 02_Valley 162714990 VT-01067 **ORDERS VCOM**

NVR, Frederick, MD - 21703,

Job Reference (optional)
8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:56 2023 Page 1 ID:CDY2WTwtYNVsMzJGuJj2XIyUXzd-1KYx16BUCwD9jIUtln7YvRGPX9y_TtoZjx6TIQy6TYL



4x6 = Scale = 1:44.2

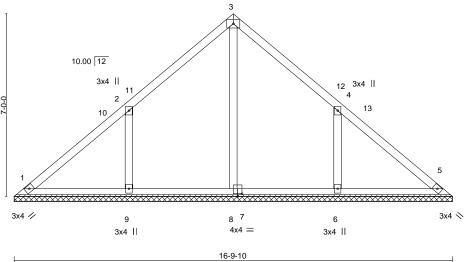


Plate Offsets (X,Y) [7:	0-2-0,0-1-4]						
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.73 BC 0.23 WB 0.21	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a n/a 0.01	l/defl n/a n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S					Weight: 75 lb FT = 5%

LUMBER-

2x4 SP No.3 or 2x4 SPF Stud TOP CHORD BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud **OTHERS** 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 16-9-10.

Max Horz 1=229(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-326(LC 12), 6=-326(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=299(LC 19), 9=641(LC 18), 6=641(LC 19)

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

TOP CHORD 2-3=-262/242, 3-4=-262/242 WEBS 2-9=-543/474, 4-6=-543/474

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Corner(3R) 4-9-9 to 12-0-1, Corner(3E) 12-0-1 to 16-4-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=326, 6=326.



December 27,2023



Truss Type Job Truss Qty 02_Valley 157754444 **ORDERS** VT-01068 VCOM Job Reference (optional)

4x6 =

NVR. Frederick, MD - 21703, 8.530 s Mar 9 2023 MiTek Industries, Inc. Thu Apr 13 08:50:54 2023 Page 1 ID:gP6QjpxVJgdj_7tSS1EH4WyUXzc-bAPyeQPP7HT0pK5WBRIQwCu4eTNWd_3ipaGlyyzRAz?

19-2-6

Scale = 1:50.5

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

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

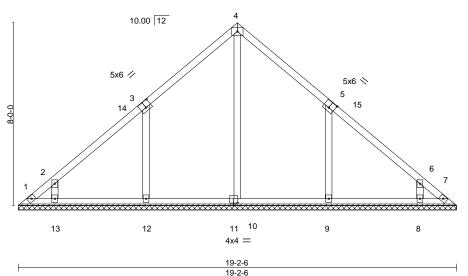


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [11:0-2-0,0-1-4]

	T					
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.72 BC 0.20 WB 0.29	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.01 7	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S				Weight: 90 lb FT = 5%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud 2x4 SP No.3 or 2x4 SPF Stud **OTHERS**

REACTIONS. All bearings 19-2-6. (lb) - Max Horz 1=-264(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-138(LC 10), 12=-296(LC 12), 13=-205(LC 12),

9-7-3

9-7-3

9=-295(LC 13), 8=-205(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=323(LC 18), 12=600(LC 18), 13=344(LC 21),

9=600(LC 19), 8=345(LC 22)

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

TOP CHORD 1-2=-316/218, 3-4=-263/258, 4-5=-263/258, 6-7=-274/139 WEBS 3-12=-518/392, 2-13=-281/340, 5-9=-518/392, 6-8=-282/340

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Exterior(2N) 4-9-9 to 5-2-8, Corner(3R) 5-2-8 to 13-8-5, Exterior(2N) 13-8-5 to 14-4-13, Corner(3E) 14-4-13 to 18-9-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=138, 12=296, 13=205, 9=295, 8=205.



