

TRUSS BRACING DETAILS S-3 SCALE: 1/4" = 1'-0"

TRUSS BRACING NOTES:

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

 4. DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (4/RF-Ic)

 5. STUDDED GABLE BRACING DETAIL (1/RF-Ic) TO BE UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER
- UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.
- 6. PARTIALLY SHEATHED GABLES, SEE (5/RF-Ic) FOR "L"
 BRACING WHEN REQUIRED.
 7. LATERAL BRACING CAN BE APPLIED TO EITHER SIDE
 OF THE WEB MEMBER IDENTIFIED IN THE DRAWING. 3. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

MODEL

GRAND BAHAMA

DRAWING TITLE

TRUSS BRACING

Job Truss Truss Type Qty Ply 10 Southeast 149147390 **ORDERS** SE-14544 COMN Job Reference (optional)

4x6 =

6-0-0

6-0-0

6-0-0

6-0-0

NVR. Frederick, MD - 21703

-0-11-4

0-11-4

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:24 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-drrnYGGrXdjjPOJLLzFf6lUyAJmzsf3dn5?sstyBF8z 12-11-4 12-0-0

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

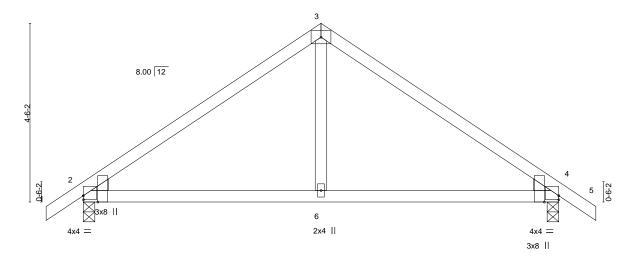
Rigid ceiling directly applied or 10-0-0 oc bracing.

0-11-4

12-0-0

6-0-0

Scale = 1:29 1



| Plate Off | fsets (X,Y) | [2:0-0-0,0-1-3], [2:0-1-15, | ,Edge], [4:0-0- | 0,0-1-3], [4:0 | -1-15,Edge] | | | | | | | |
|-----------|-------------|-----------------------------|-----------------|----------------|-------------|----------|-------|-------|--------|-----|---------------|---------|
| LOADIN | 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 | 0.49 | Vert(LL) | -0.03 | 2-6 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.06 | 2-6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code IBC2021/TF | PI2014 | Matrix | k-S | Wind(LL) | 0.03 | 2-6 | >999 | 240 | Weight: 50 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.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud

WEDGE

Left: 2x4 SP or SPF No.3 or Stud , Right: 2x4 SP or SPF No.3 or Stud

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

Max Horz 2=118(LC 9)

Max Uplift 2=-79(LC 10), 4=-79(LC 11) Max Grav 2=533(LC 1), 4=533(LC 1)

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

TOP CHORD 2-3=-558/86, 3-4=-558/86 **BOT CHORD** 2-6=-1/377, 4-6=-1/377

WEBS 3-6=0/286

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 79 lb uplift at joint 2 and 79 lb uplift at ioint 4.
- 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 149147391 **ORDERS** SE-14545 COMN Job Reference (optional)

10-0-0

4-10-13

NVR. Frederick, MD - 21703

0-11-4

5-1-3 5-1-3

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:25 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-51O9lcHTHwra1YuXvgnuey19Tj4zb5Hm0llPOJyBF8y 14-10-13 20-0-0

6-8-13

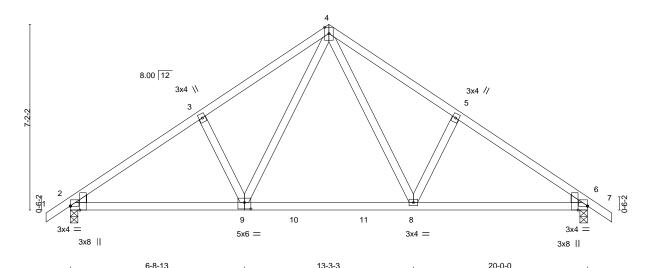
Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 5-2-15 oc purlins.

20-11-4 0-11-4 4-10-13

4x6

Scale = 1:44 6



| Plate Off | sets (X,Y) | [2:0-0-0,0-0-3], [2:0-1-15, | Edge], [6:0-1- | 15,Edge], [6 | :0-0-0,0-0-3], | [9:0-3-0,0-3-0] | | | | | | | |
|-----------|------------|-----------------------------|----------------|--------------|----------------|-----------------|-------|-------|--------|-----|----------------|---------|--|
| LOADIN | G (nef) | 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) | -0.08 | 8-9 | >999 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.46 | Vert(CT) | -0.12 | 6-8 | >999 | 240 | | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.02 | 6 | n/a | n/a | | | |
| BCDL | 10.0 | Code IBC2021/TP | 12014 | Matri | x-S | Wind(LL) | 0.03 | 2-9 | >999 | 240 | Weight: 103 lb | FT = 5% | |

BRACING-

TOP CHORD

BOT CHORD

6-6-7

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

WEDGE

Left: 2x4 SP or SPF No.3 or Stud , Right: 2x4 SP or SPF No.3 or Stud

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

Max Horz 2=-185(LC 8)

Max Uplift 2=-117(LC 10), 6=-117(LC 11) Max Grav 2=853(LC 1), 6=853(LC 1)

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

6-8-13

TOP CHORD 2-3=-1113/140, 3-4=-979/207, 4-5=-979/207, 5-6=-1113/140 **BOT CHORD** 2-9=-145/940, 8-9=-2/616, 6-8=-38/842

WEBS 3-9=-270/210, 4-9=-122/482, 4-8=-123/482, 5-8=-270/210

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 117 lb uplift at joint 2 and 117 lb uplift at ioint 6.
- 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 11 Southeast-Girder-Int 149147402 **ORDERS** SE-14546 COMN Job Reference (optional) NVR. Frederick, MD - 21703 8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:58 2021 Page 1 $ID:?RrLVUNcBotMPeFP6cfGVKyElz_-dNuehugAW3?uUdwtK6sdUvuoU0ClqvQdcOFf3uyBF8R$ 6-0-0 -0-11-4 3-2-11 8-9-5 12-0-0 0-11-4 2-9-5 3-2-11 3-2-11 Scale = 1:27.2 5x6 || 8.00 12 2x4 \\ 2x4 // 5 3 8 7 8x8 = 8x8 = 3x6 🥢 3x6 <> 4-1-13 7-10-3 12-0-0 4-1-13 3-8-7 4-1-13 Plate Offsets (X,Y)--[2:0-1-0,0-1-8], [7:0-4-0,0-4-8], [8:0-4-0,0-4-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.05

-0.09

0.02

0.03

7-8

7-8

7-8

6

>999

>999

>999

n/a

360

240

n/a

240

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

BOT CHORD 2x6 SP No.2

20.0

10.0

10.0

0.0

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

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

Max Horz 2=91(LC 7) Max Uplift 2=-201(LC 8), 6=-189(LC 9)

Max Grav 2=4787(LC 15), 6=4722(LC 16)

Plate Grip DOL

Rep Stress Incr

Code IBC2021/TPI2014

Lumber DOL

1.15

1.15

NO

TC

BC

WB

Matrix-S

0.37

1.00

0.69

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

TOP CHORD 2-3=-5667/237, 3-4=-5565/268, 4-5=-5576/271, 5-6=-5682/239

BOT CHORD 2-8=-195/4614, 7-8=-102/3296, 6-7=-162/4562

WEBS 4-8=-159/3286, 4-7=-163/3309

NOTES- (9-11)

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 0-8-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201, 6=189.
- 8) Girder carries tie-in span(s): 38-0-0 from 0-0-0 to 12-0-0
- 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.

LOAD CASE(S) Standard



197/144

FT = 5%

MT20

Structural wood sheathing directly applied or 4-11-3 oc purlins.

Weight: 140 lb

January 12,2022

Continued on page 2



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

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



818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Ply 11_Southeast-Girder-Int 149147402 ORDERS SE-14546 COMN Job Reference (optional)

Frederick, MD - 21703, NVR,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:58 2021 Page 2 ID:?RrLVUNcBotMPeFP6cfGVKyElz_-dNuehugAW3?uUdwtK6sdUvuoU0ClqvQdcOFf3uyBF8R

LOAD CASE(S) Standard

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

Vert: 2-6=-734(B=-714), 1-4=-60, 4-6=-60



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply 11_Southeast-Girder-Int 149147403 **ORDERS** SE-14547 COMN Job Reference (optional)

10-0-0

4-9-5

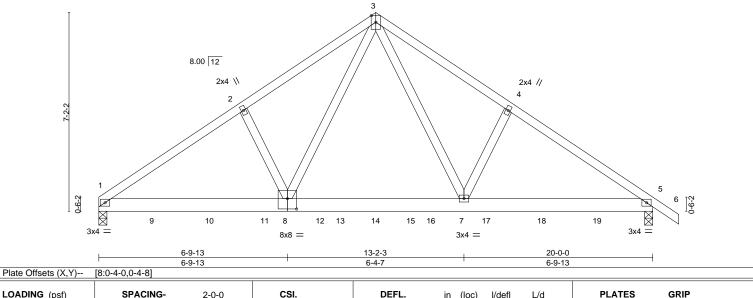
NVR. Frederick, MD - 21703

> 5-2-11 5-2-11

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:59 2021 Page 1 $ID:?RrLVUNcBotMPeFP6cfGVKyElz_-5aS0uEhoHN7l6nV3upOs07R?XQhHZSanq2_DbLyBF8Q$ 14-9-5 20-0-0 20-11-4 0-11-4

Scale = 1:41.6 4x6 ||

5-2-11



| LOADING TCLL TCDL BCLL | (psf) 20.0 10.0 0.0 * | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | CSI. TC BC WB | 0.22 0.44 0.25 | DEFL. Vert(LL) Vert(CT) Horz(CT) | in -0.04 -0.08 0.02 | (loc) 1-8 1-8 | l/defl >999 >999 n/a | L/d 360 240 n/a |
|---------------------------------|--------------------------------|---|-----------------------------|------------------------|----------------------|---|------------------------------|---------------------|-------------------------------|--------------------------|
| BCDL | 10.0 | Code IBC2021/TF | | Matri | | Wind(LL) | 0.02 | 1-8 | >999 | 17/a 240 |

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.

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=-145(LC 4)

Max Uplift 1=-39(LC 8), 5=-51(LC 9) Max Grav 1=1678(LC 1), 5=1746(LC 1)

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

TOP CHORD 1-2=-2319/78, 2-3=-2200/132, 3-4=-2194/130, 4-5=-2314/77

BOT CHORD 1-8=-67/1913, 7-8=0/1292, 5-7=-3/1845

WEBS 3-8=-78/1216, 3-7=-77/1207

NOTES-(9-11)

LUMBER-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 5.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down and 9 lb up at 2-0-0, 198 lb down and 9 lb up at 4-0-0, 198 lb down and 9 lb up at 6-0-0, 198 lb down and 9 lb up at 8-0-0, 198 lb down and 9 lb up at 10-0-0, 198 lb down and 9 lb up at 12-0-0, 198 lb down and 9 lb up at 14-0-0, and 198 lb down and 9 lb up at 16-0-0, and 198 lb down and 9 lb up at 18-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 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.



197/144

FT = 5%

MT20

Weight: 233 lb

COAD CASE(S) geStandard

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 11_Southeast-Girder-Int 149147403 **ORDERS** SE-14547 COMN Job Reference (optional)

Frederick, MD - 21703, NVR.

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-20, 1-3=-60, 3-6=-60

Concentrated Loads (lb)

Vert: 9=-198(F) 10=-198(F) 11=-198(F) 12=-198(F) 14=-198(F) 16=-198(F) 17=-198(F) 18=-198(F) 19=-198(F)



Truss Truss Type Qty 10 Southeast 149147393 **ORDERS** SE-14549 COMN Job Reference (optional)

4x6 =

NVR. Frederick, MD - 21703

-0-11-4

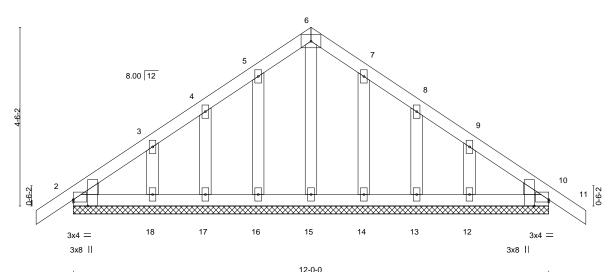
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8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:28 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-Vc4IOeJMarD9u0d6apKbGbeluwCRoULDijz4?eyBF8v 12-11-4 12-0-0

Scale = 1:29 1

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

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



12-0-0 Plate Offsets (X,Y)--[2:0-0-0,0-0-11], [2:0-1-15,Edge], [10:0-0-0,0-0-11], [10:0-1-15,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 in (loc) I/defI I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.0010 120 197/144 n/r MT20 BC 0.03 TCDL 10.0 Lumber DOL 1.15 Vert(CT) -0.0011 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 10 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Weight: 70 lb FT = 5%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP or SPF No.3 or Stud , Right: 2x4 SP or SPF No.3 or Stud

REACTIONS. All bearings 12-0-0.

(lb) - Max Horz 2=-118(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

(10-12)

- 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

6-0-0

6-0-0

- 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 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) 2, 10, 16, 17, 18, 14, 13, 12,
- 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.





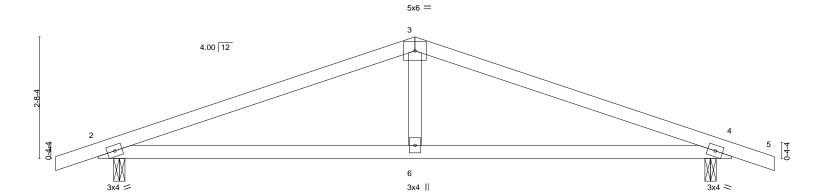
Truss Type 10_Southeast Truss Qty 149194674 **ORDERS** SE-18423 COMN Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:34 2021 Page 1 NVR. Frederick, MD - 21703.

ID:TfhWPze26pZ0d7TmAocjK4zu5rq-I_hYJ8QaU_RuBMyItzBoR5dwpZLo?HWOmbRc2jyAarJ 14-0-0 14-11-4 0-11-4

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

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

Scale = 1:25.5



| 0-4-2 0-4-2 | 7-0-0 6-7-14 | | - | | | | 13-7-14 6-7-14 | | 14-0-0 0-4-2 |
|--|---|---|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|-----------------------------------|
| 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) 4-6 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-

-0-11-4 0-11-4

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 15)

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=-1021/122, 3-4=-1021/122 **BOT CHORD** 2-6=-65/903, 4-6=-65/903

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.

7-0-0

7-0-0

- 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 129 lb uplift at joint 2 and 129 lb uplift at
- 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 149194675 **ORDERS** SE-18424 COMN Job Reference (optional) NVR. Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:35 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-DBFwXURCFHZloWXURgj1zJA1OzbGkehY_FA9a9yAarl 19-0-0 31-3-13 38-0-0 6-8-3 12-10-2 25-1-14 6-8-3 6-1-14 6-1-14 6-8-3 Scale = 1.65.05x6 = 6.00 12 5x6 / 5x6 <> 5 3 9-10-4 3x4 📏 3x4 // 2 0-4-4 10 11 12 13 14 8 3x6 =9 3x6 6x8 = 6x8 = 6x8 = 9-9-3 19-0-0 28-2-13 38-0-0 9-9-3 9-2-13 9-2-13 9-9-3 Plate Offsets (X,Y)-[3:0-2-12,0-3-0], [5:0-2-12,0-3-0], [9:0-3-12,0-3-0]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

in (loc)

9-10

1-10

9 >999

1 Row at midpt

-0.26

-0.50

0.12

0.12

I/defI

>999

>900

n/a

I/d

360

240

n/a

240

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 2-2-0 oc bracing.

3-9, 5-9

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

20.0

10.0

10.0

0.0

TOP CHORD 2x4 SP No.2D *Except*

3-4,4-5: 2x4 SP No.2 or 2x4 SPF No.2

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IBC2021/TPI2014

Lumber DOL

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

7-8,1-10: 2x4 SP No.1

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

REACTIONS. (size) 7=0-3-8. 1=Mechanical

Max Horz 1=164(LC 10)

Max Uplift 7=-195(LC 11), 1=-196(LC 10) Max Grav 7=1512(LC 1), 1=1512(LC 1)

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

TOP CHORD 1-2=-2850/387, 2-3=-2587/356, 3-4=-1785/289, 4-5=-1793/290, 5-6=-2578/356,

6-7=-2830/383

required maximum reaction.

BOT CHORD 1-10=-431/2487, 9-10=-247/2001, 8-9=-103/1995, 7-8=-263/2463 **WEBS**

2-10=-370/234, 3-10=-56/569, 3-9=-709/267, 4-9=-128/1209, 5-9=-697/266,

2-0-0

1.15

1.15

YES

5-8=-57/557, 6-8=-353/230

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

CSI.

TC

BC

WB

Matrix-S

0.96

0.94

0.52

- 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 195 lb uplift at joint 7 and 196 lb uplift at joint 1.
- 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



PLATES

Weight: 193 lb

MT20

GRIP

197/144

FT = 5%



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 149194676 **ORDERS** SE-18425 COMN Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:36 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyElz_hNpJkpSr0bhcQf6g?OEGWWjDJNwdT4nhDvwj6byAarH NVR. Frederick, MD - 21703 12-10-2 19-0-0 31-3-13 38-0-0 6-8-325-1-14 6-1-14 6-1-14 6-8-3 6-1-14 6-1-14 6-8-3 Scale = 1:65.6 5x6 = 6.00 12 5x6 / 5x6 < 3 3x4 // 5x6 / 6 0-41 4-4 Š 10 12 13 14 15 8 3x6 4x4 // 3x6 5x7 = 6x8 =11 6x8 = 3-0-0 9-9-3 19-0-0 28-2-13 38-0-0 3-0-0 6-9-3 9-2-13 9-2-13 9-9-3 Plate Offsets (X,Y)-[3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [8:0-3-12,0-3-4], [9:0-3-12,Edge], [10:0-3-8,0-3-4] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.95 Vert(LL) -0.248-9 >999 360 197/144 MT20

-0.47

0.09

0.10

7-8

7-8

>882

>999

1 Row at midpt

n/a

240

n/a

240

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 2-2-0 oc bracing.

Weight: 200 lb

3-9, 5-9, 2-11

FT = 5%

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

10.0

10.0

0.0

TCDL

BCLL

BCDL

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

7-8: 2x4 SP No.2D

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

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

Lumber DOL

Rep Stress Incr

Code IBC2021/TPI2014

(lb) - Max Horz 1=164(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-190(LC 11), 1=-169(LC 26), 11=-221(LC 10) Max Grav All reactions 250 lb or less at joint(s) 1 except 7=1370(LC 1), 11=1786(LC 1), 11=1786(LC 1)

BC

WB

Matrix-S

1.00

0.59

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

TOP CHORD 1-2=-137/703, 2-3=-1660/250, 3-4=-1477/277, 4-5=-1483/254, 5-6=-2268/345,

6-7=-2522/373 1-11=-542/189, 10-11=-265/1183, 9-10=-181/1447, 8-9=-72/1717, 7-8=-254/2190

BOT CHORD 2-10=0/385, 3-9=-372/222, 4-9=-116/945, 5-9=-696/267, 5-8=-59/554, 6-8=-357/230, WEBS

1.15

YES

2-11=-2370/370

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 190 lb uplift at joint 7, 169 lb uplift at joint 1 and 221 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.





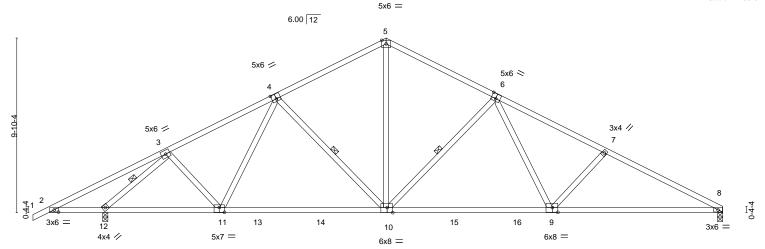
Job Truss Truss Type Qty 10 Southeast 149194677 **ORDERS** SE-18426 COMN Job Reference (optional)

Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:37 2021 Page 1 $ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf2yAarGNPeFP6cfGVKyEIz_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf4yAarGNPeFP6cfGVKyEIZ_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf4yAarGNPeFP6cfGVKyEIZ_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf4yAarGNPeFP6cfGVKyEIZ_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf4yAarGNPeFP6cfGVKyEIZ_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf4yAarGNPeFP6cfGVKyEIZ_-9ZNhy9STnvpT2phtZ5IV2kFNwnFnCYQrSZfGf4yAarGNPeFP6cfGf4yAarGNPeFP6cff4yAarGNPeF$

12-10-2 19-0-0 31-3-13 38-0-0 6-8-3 25-1-14 6-8-3 6-1-14 6-1-14 6-8-3

Scale = 1.65.0



3-0-0 3-1-12 3-0-0 0-1-12 9-9-3 19-0-0 28-2-13 38-0-0 6-7-7 9-2-13 9-2-13 9-9-3 Plate Offsets (X,Y)-[2:0-2-13,0-1-8], [4:0-3-0,0-3-4], [6:0-3-0,0-3-4], [9:0-3-12,0-3-4], [10:0-3-12,Edge], [11:0-3-8,0-3-4] LOADING (psf) SPACING-CSI. DEFL **PLATES** GRIP 2-0-0 (loc) I/defI I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.96 Vert(LL) -0.24 9-10 >999 360 197/144 MT20 BC TCDL 10.0 Lumber DOL 1.15 1.00 Vert(CT) -0.488-9 >881 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.57 Horz(CT) 0.09 8 n/a n/a

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

0.10

8-9

>999

1 Row at midpt

240

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 1-4-12 oc bracing.

Weight: 201 lb

4-10, 6-10, 3-12

FT = 5%

Matrix-S

LUMBER-

10.0

BCDL

NVR.

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

8-9: 2x4 SP No.2D

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

REACTIONS. (size) 8=0-3-8, 12=0-3-8 Max Horz 12=178(LC 14)

> Max Uplift 8=-188(LC 11), 12=-236(LC 10) Max Grav 8=1380(LC 1), 12=1705(LC 1)

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

Code IBC2021/TPI2014

TOP CHORD 2-3=-159/534, 3-4=-1718/242, 4-5=-1498/274, 5-6=-1504/251, 6-7=-2289/342,

2-12=-393/204, 11-12=-254/1281, 10-11=-178/1485, 9-10=-69/1736, 8-9=-251/2208

BOT CHORD WEBS 3-11=0/330, 4-10=-378/219, 5-10=-113/968, 6-10=-696/267, 6-9=-59/553, 7-9=-356/230,

3-12=-2258/381

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 188 lb uplift at joint 8 and 236 lb uplift at ioint 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.





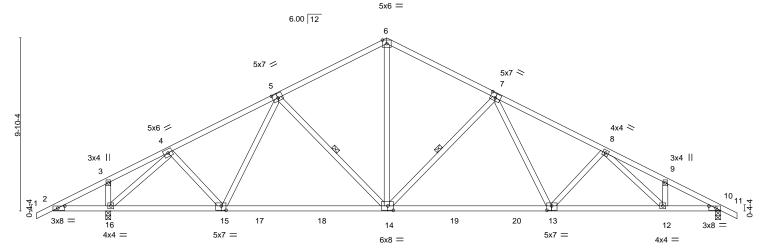
Job Qty 10 Southeast SE-18453- Cond1 149194686 COMN **ORDERS** Job Reference (optional)

NVR Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:46 2021 Page 1

ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-PIQ5rEZ6fgyBdCtbaUPcwd70cPLvpW89WTLFT0yAar7 19-0-0 31-3-13 34-10-4 38-0-0 12-10-2 25-1-14 38-11-4 6-1-14 6-1-14 3-6-7 3-1-12

Scale = 1:65.6

[MCT]



| | 3-0-0 3 | 3-1 ₁₁ 12 9-9-3 | 19-0-0 | 1 | 2 | 8-2-13 | | 34-10-4 | 38-0-0 |
|-------------|-----------|---------------------------------|--|--------------------|---------------------|-----------|------------------|----------------|---------|
| | 3-0-0 | 0-1-12 6-7-7 | 9-2-13 | | Ş | -2-13 | | 6-7-7 | 3-1-12 |
| Plate Offse | ets (X,Y) | [2:0-4-13,0-1-8], [5:0-3-8,0-3- |)], [7:0-3-8,0-3-0], [10:0-4- ² | 13,0-1-8], [13:0-3 | 3-4,0-3-0], [14:0-3 | -12,0-3-0 |)], [15:0-3-4,0- | 3-0] | |
| | | | | | | | | | |
| 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 0.5 | i2 \ | Vert(LL) -0.20 | 13-14 | >999 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL 1. | 15 BC 0.9 |)4 \ | Vert(CT) -0.40 | 13-14 | >999 240 | | |
| BCLL | 0.0 * | Rep Stress Incr Y | S WB 0.9 | 19 F | Horz(CT) 0.08 | 10 | n/a n/a | | |
| BCDL | 10.0 | Code IBC2021/TPI201 | 4 Matrix-S | V | Wind(LL) 0.09 | 13 | >999 240 | Weight: 213 lb | FT = 5% |

BRACING-

WEBS

TOP CHORD

BOT CHORD

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

3-1-12

3-1-12

6-8-3

3-6-7

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

10-13: 2x4 SP 2250F 1.9E or 2x4 SPF 2100F 1.8E

2-15: 2x4 SP No.2 or 2x4 SPF No.2

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

REACTIONS. (size) 10=0-3-8, 16=0-3-8

Max Horz 16=171(LC 10)

Max Uplift 10=-212(LC 11), 16=-237(LC 10) Max Grav 10=1437(LC 1), 16=1712(LC 1)

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

TOP CHORD 2-3=-111/370, 3-4=-55/371, 4-5=-1644/226, 5-6=-1481/271, 6-7=-1486/249,

7-8=-2237/335, 8-9=-2565/393, 9-10=-2643/335 **BOT CHORD**

2-16=-285/136, 15-16=-218/1188, 14-15=-169/1455, 13-14=-60/1715, 12-13=-210/2167, 10-12=-239/2280

> 4-15=0/393, 5-14=-362/222, 6-14=-115/960, 7-14=-691/274, 7-13=-50/514, 8-13=-355/194, 4-16=-2001/255

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) 10=212, 16=237
- 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 3-4-11 oc purlins.

5-14, 7-14

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

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



Truss Type Job Qty 10 Southeast SE-18453- Cond2 149194686 СОМИ **ORDERS** Job Reference (optional)

6-1-14

28-2-13

1 Row at midpt

19-0-0

6-1-14

19-0-0

NVR Frederick MD - 21703

3-1-12

6-8-3

3-6-7

12-10-2

6-1-14

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:47 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-tV_T2aakQz42EMSo8BwrSrgBMph3YzQJl74o?TyAar6 34-10-4 31-3-13 38-0-0 25-1-14 38-11-4

3-6-7

34-10-4

Structural wood sheathing directly applied or 3-4-11 oc purlins.

5-14, 7-14

Rigid ceiling directly applied or 2-2-0 oc bracing.

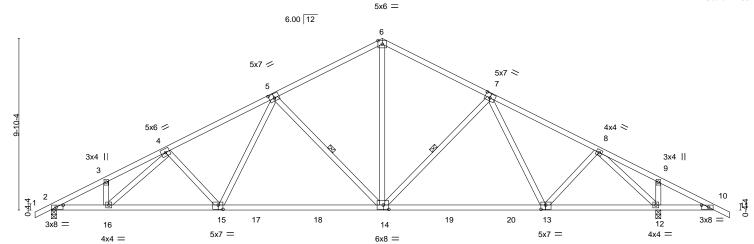
6-1-14

Scale = 1:66.2

3-1-12

38-0-0

[MCT]



| U-0-0 0 | J- 1/1/12 J-J-J | 13-0-0 | 20-2-13 | JT-10-T | 30-0-0 |
|---------------------|---------------------------------------|---|---|-------------------|---------|
| 3-0-0 (| 0-1-12 6-7-7 | 9-2-13 | 9-2-13 | 6-7-7 | 3-1-12 |
| Plate Offsets (X,Y) | [2:0-4-13,0-1-8], [5:0-3-8,0-3-0], [7 | :0-3-8,0-3-0], [10:0-4-13,0-1-8], [13:0 |)-3-4,0-3-0], [14:0-3-12,0-3-0], [15:0-3-4, | 0-3-0] | |
| | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L | /d PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.52 | Vert(LL) -0.21 14-15 >999 36 | 60 MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.94 | Vert(CT) -0.42 14-15 >990 24 | 10 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.98 | Horz(CT) 0.09 12 n/a n | /a | |
| BCDL 10.0 | Code IBC2021/TPI2014 | Matrix-S | Wind(LL) 0.10 15 >999 24 | 10 Weight: 213 lb | FT = 5% |
| | | | · / | | |

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2D *Except* **BOT CHORD**

3-0-0 3-1-12

10-13: 2x4 SP 2250F 1.9E or 2x4 SPF 2100F 1.8E

9-9-3

2-15: 2x4 SP No.2 or 2x4 SPF No.2

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

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

Max Horz 2=-171(LC 15)

Max Uplift 2=-212(LC 10), 12=-237(LC 11) Max Grav 2=1437(LC 1), 12=1712(LC 1)

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

TOP CHORD 2-3=-2649/334, 3-4=-2571/392, 4-5=-2231/333, 5-6=-1478/247, 6-7=-1485/271,

7-8=-1641/226, 8-9=-54/370, 9-10=-109/367 **BOT CHORD** 2-16=-409/2285, 15-16=-381/2167, 14-15=-228/1715, 13-14=-71/1455, 12-13=-58/1156,

10-12=-284/135 WEBS 4-15=-358/194, 5-15=-48/513, 5-14=-694/274, 6-14=-114/958, 7-14=-359/222,

8-13=0/392, 8-12=-2000/253

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 100 lb uplift at joint(s) except (jt=lb) 2=212, 12=237
- 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.

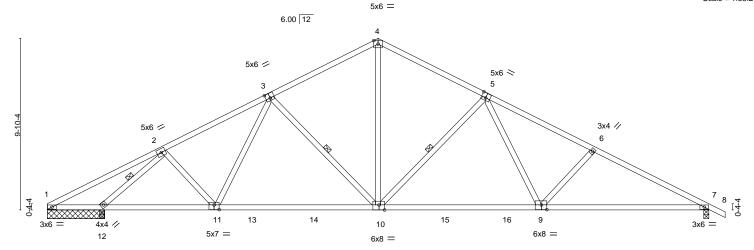


Job Truss Truss Type Qty Ply 10 Southeast 149194687 **ORDERS** SE-18454 COMN Job Reference (optional) NVR.

Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:48 2021 Page 1

ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-LhYrFwbMBHCvsV1_ivR4?2CJXD0PHWmS_nqLYvyAar5 31-3-13 12-10-2 19-0-0 38-0-0 38-11-4 0-11-4 25-1-14 6-1-14 6-8-3 6-1-14

Scale = 1:66.2



| 3-0-0 | 9-9-3 | 19-0-0 | 28-2-13 | 38-0-0 |
|--|---|---------------------------------------|--|----------|
| 3-0-0 | 6-9-3 | 9-2-13 | 9-2-13 | 9-9-3 |
| Plate Offsets (X,Y) | [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [9 | 9:0-3-12,0-3-4], [10:0-3-12,Edge], [1 | 1:0-3-8,0-3-4] | |
| 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 | TC 0.75 BC 1.00 | DEFL. in (loc) l/defl L Vert(LL) -0.24 9-10 >999 36 Vert(CT) -0.45 7-9 >920 24 Horz(CT) 0.09 7 n/a n/a Wind(LL) 0.10 7-9 >999 24 | 00 /a |

LUMBER-

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

7-9: 2x4 SP No.2D

6-8-3

6-8-3

WEBS 2x4 SP No.3 or 2x4 SPF Stud **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS

1 Row at midpt 3-10, 5-10, 2-12

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

(lb) - Max Horz 1=-178(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-214(LC 11), 1=-168(LC 26), 12=-219(LC 10) Max Grav All reactions 250 lb or less at joint(s) 1 except 7=1436(LC 1), 12=1785(LC 1), 12=1785(LC 1)

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

TOP CHORD 1-2=-133/701, 2-3=-1658/251, 3-4=-1475/277, 4-5=-1481/254, 5-6=-2261/343,

6-7=-2513/368

BOT CHORD 1-12=-540/196, 11-12=-259/1183, 10-11=-175/1446, 9-10=-62/1714, 7-9=-233/2179 WEBS

2-11=0/385, 3-10=-372/222, 4-10=-116/944, 5-10=-694/267, 5-9=-56/552, 6-9=-350/224,

2-12=-2367/367

NOTES-(6-8)

required maximum reaction.

- 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 214 lb uplift at joint 7, 168 lb uplift at joint 1 and 219 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





Job Qty 10 Southeast SE-18455- Cond1 149194688 COMN **ORDERS** Job Reference (optional) Frederick, MD - 21703 NVR. 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:51 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-IGD_uydFUCaUjzmZN1?ndhqsrQ4hUuwugl208EyAar2 19-0-0 25-1-14 31-3-13 38-0-0 38-11-4 6-8-3 12-10-2 6-8-3 6-1-14 6-1-14 6-8-3 Scale = 1.65.05x6 = 6.00 12 6 4x8 🖊 3x4 > 3x6 / 3x6 < 3x4 II 3x4 \\ 3x4 // 2 10 11 4 10 11 4 0-4-4 B × 16 17 18 12 3x8 =15 13 3x4 || 6x8 = 5x10 = 6x8 = 9-9-3 13-1-0 19-0-0 28-2-13 38-0-0 9-9-3 3-3-13 5-11-0 9-2-13 9-9-3 Plate Offsets (X,Y)-[1:0-4-13,0-1-8], [10:0-2-13,0-1-8], [15:0-4-12,0-3-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL 20.0 1.15 TC 0.61 Vert(LL) -0.241-15 >654 360 197/144 TCLL MT20 BC -0.51 TCDL 10.0 Lumber DOL 1.15 0.77 Vert(CT) 1-15 >311 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.57 Horz(CT) 0.02 10 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.07 10-12 >999 240 Weight: 210 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 3-10-14 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS

1 Row at midpt

6-13, 7-13, 5-14

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

10-12: 2x4 SP No.1, 12-13: 2x4 SP No.2D

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

REACTIONS. (size) 10=0-3-8, 1=Mechanical, 14=0-3-8

Max Horz 1=-178(I C 11)

Max Uplift 10=-178(LC 11), 1=-43(LC 10), 14=-234(LC 10) Max Grav 10=936(LC 1), 1=379(LC 23), 14=1842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-359/138, 5-6=-360/200, 6-7=-366/176, 7-9=-1176/263, 9-10=-1432/289 **BOT CHORD** 1-15=-122/270, 14-15=-398/234, 13-14=-398/234, 12-13=0/732, 10-12=-163/1220 WEBS 2-15=-385/222, 5-15=-115/591, 5-13=-58/984, 7-13=-710/266, 7-12=-53/581,

9-12=-364/226, 5-14=-1800/253

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 178 lb uplift at joint 10, 43 lb uplift at joint 1 and 234 lb uplift at joint 14.
- 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-18455- Cond2 149194688 СОМИ **ORDERS** Job Reference (optional) Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:51 2021 Page 1 NVR. $ID:?RrLVUNcBotMPeFP6cfGVKyElz_-IGD_uydFUCaUjzmZN1?ndhqrWQ4xUuVugl208EyAar2\\$ 19-0-0 38-0-0 6-8-312-10-2 25-1-14 31-3-13 38-11-4 6-1-14 6-1-14 6-8-3 6-8-3 6-1-14 Scale = 1:63.3 5x6 = 6.00 12 6 4x8 / 3x4 > 3x6 / 5 3x6 < 3x4 || 8 3x4 \\ 3x4 // 16 12 3x8 =15 14 13 3x6 5x10 6x8 3x4 || 6x8 = 9-9-3 13-1-0 19-0-0 28-2-13 38-0-0 9-9-3 3-3-13 5-11-0 9-2-13 9-9-3 Plate Offsets (X,Y)-[1:0-4-13,0-1-8], [10:0-2-13,0-1-8], [15:0-4-12,0-3-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.70 Vert(LL) -0.23>501 360 197/144 1-15 MT20 BC -0.47 TCDL 10.0 Lumber DOL 1.15 0.82 Vert(CT) 1-15 >243 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.03 10 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.08 10-12 >999 240 Weight: 210 lb FT = 5%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

10-12: 2x4 SP No.1, 12-13: 2x4 SP No.2D

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

REACTIONS. (size) 15=0-3-8, 10=0-3-8, 1=Mechanical

Max Horz 1=-178(I C 11)

Max Uplift 15=-250(LC 10), 10=-192(LC 11), 1=-26(LC 24) Max Grav 15=1863(LC 1), 10=1104(LC 1), 1=205(LC 23)

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

TOP CHORD 1-2=-59/377, 2-3=-76/524, 3-5=-41/602, 5-6=-731/229, 6-7=-740/206, 7-9=-1542/292,

BOT CHORD 1-15=-301/192, 14-15=0/307, 13-14=0/307, 12-13=-14/1062, 10-12=-189/1543 WEBS

2-15=-378/221, 5-15=-1472/162, 5-13=-24/559, 6-13=-74/330, 7-13=-705/265,

7-12=-52/575, 9-12=-358/225

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 250 lb uplift at joint 15, 192 lb uplift at joint 10 and 26 lb uplift at joint 1.
- 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.



[MCT]

Structural wood sheathing directly applied or 3-4-0 oc purlins.

5-15, 7-13

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

6-0-0 oc bracing: 1-15.

1 Row at midpt

Truss Job Qty 10 Southeast SE-18455- Cond3 149194688 СОМИ **ORDERS** Job Reference (optional) Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:52 2021 Page 1 NVR. ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-DSnM5letFWiKL7KlxlW09uN_XqO6DMF2uPoZhgyAar1 19-0-0 25-1-14 31-3-13 38-0-0 38-11-4 0-11-4 6-8-3 12-10-2 6-8-3 6-1-14 6-1-14 6-1-14 6-1-14 6-8-3 Scale: 3/16"=1 5x6 =6.00 12 6 4x8 / 3x4 ≥ 3x6 / 3x6 ≥ 3x4 || 3x4 \ 3x4 / 9 0-44 17 18 19 12 14 15 13 3x6 = 6x8 = 5x10 = 3x4 II 6x8 = 9-9-3 13-1-0 19-0-0 28-2-13 38-0-0 3-3-13 9-9-3 5-11-0 9-2-13 9-9-3 Plate Offsets (X,Y)-[1:0-4-13,0-1-8], [10:0-2-13,0-1-8], [15:0-4-12,0-3-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL **TCLL** 20.0 1.15 TC 0.81 Vert(LL) -0.30 12-13 >999 360 197/144 MT20 BC -0.54 12-13 TCDL 10.0 Lumber DOL 1.15 0.95 Vert(CT) >776 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.50 Horz(CT) 0.12 10 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.14 14-15 >999 240 Weight: 210 lb FT = 5%[MCT] **BRACING-**TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. 2x4 SP No.2 or 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS

1 Row at midpt

5-13, 7-13

LUMBER-

BOT CHORD

10-12: 2x4 SP No.1, 12-13: 2x4 SP No.2D

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

REACTIONS. (size) 10=0-3-8, 1=3-0-0, 16=0-3-8

Max Horz 1=-178(LC 15)

Max Uplift 10=-224(LC 11), 1=-228(LC 10)

Max Grav 10=1561(LC 1), 1=1307(LC 1), 16=296(LC 3)

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

TOP CHORD 1-2=-2696/414, 2-3=-2435/375, 3-5=-2383/411, 5-6=-1740/300, 6-7=-1749/298,

7-9=-2537/362, 9-10=-2787/387 1-16=-447/2326, 15-16=-447/2326, 14-15=-233/1913, 13-14=-233/1913, 12-13=-103/1959,

BOT CHORD 10-12=-250/2422

WEBS 2-15=-330/221, 5-15=-144/433, 5-13=-668/258, 6-13=-140/1156, 7-13=-699/264,

7-12=-51/566, 9-12=-347/224

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 224 lb uplift at joint 10 and 228 lb uplift at joint 1.
- 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.

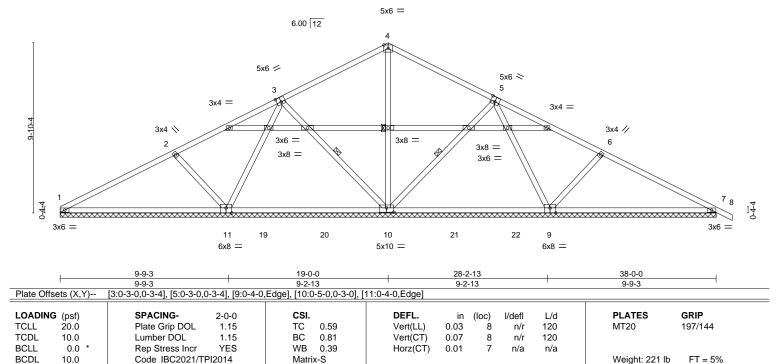


Job Truss Truss Type Qty Ply Plates added 155156609 **ORDERS** SE-18456 COMN Job Reference (optional)

Frederick, MD - 21703 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 10:21:37 2022 Page 1

ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-J4kpIns0MXaNNMv2KZSS3nLMZ69R25XSwdbdInyLGti 31-3-13 19-0-0 25-1-14 38-0-0 6-8-3 12-10-2 38-11-4 6-1-14 6-1-14 6-1-14 6-8-3 6-8-3

Scale = 1:66.7



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

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, Except:

3-10, 4-10, 5-10

6-0-0 oc bracing: 10-11. **WEBS** 1 Row at midpt

REACTIONS. All bearings 38-0-0.

(lb) - Max Horz 1=-178(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 10, 7, 1 except 11=-175(LC 10), 9=-158(LC 11)

All reactions 250 lb or less at joint(s) except 11=834(LC 23), 10=764(LC 2), 9=837(LC 24), 7=380(LC Max Grav

24), 1=320(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-11=-402/239, 3-11=-359/131, 4-10=-386/50, 5-9=-364/116, 6-9=-397/233

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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7, 1 except (jt=lb) 11=175, 9=158.
- 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.



November 9,2022



Job Truss Truss Type Qty Ply Plates added 155156610 **ORDERS** SE-18457 COMN Job Reference (optional)

19-0-0

6-1-14

12-10-2

6-1-14

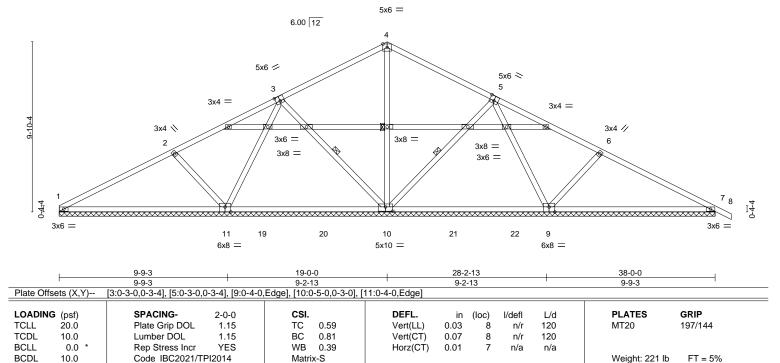
NVR. Frederick, MD - 21703

6-8-3

6-8-3

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 10:21:38 2022 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz_-nGICV7te7riE?WUEuH_hc?uWJWVgnYmb9HLArDyLGth 25-1-14 31-3-13 38-0-0 38-11-4 6-1-14 6-8-3

Scale = 1:66.7



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

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, Except: 6-0-0 oc bracing: 10-11.

WEBS 1 Row at midpt 3-10, 4-10, 5-10

REACTIONS. All bearings 38-0-0.

(lb) - Max Horz 1=-178(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 10, 7, 1 except 11=-175(LC 10), 9=-158(LC 11)

All reactions 250 lb or less at joint(s) except 11=834(LC 23), 10=764(LC 2), 9=837(LC 24), 7=380(LC Max Grav

24), 1=320(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-11=-402/239, 3-11=-359/131, 4-10=-386/50, 5-9=-364/116, 6-9=-397/233

NOTES-(7-10)

- 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7, 1 except (jt=lb) 11=175, 9=158.
- 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.
- 10) Framing and bracing of the gable end frame shall be provided by the building designer.



November 9,2022

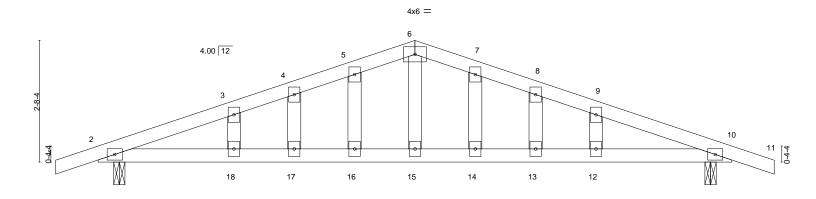


Job Truss Truss Type Qty Ply 10 Southeast 149194693 **ORDERS** SE-18591 COMN Job Reference (optional)

NVR. Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:45:06 2021 Page 1 ID:TfhWPze26pZ0d7TmAocjK4zu5rq-GPNlbAATAQqGCbwerlDkKms_cb4Era55vbOMp?yAalB 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



| 0-4-2 | 13-7-14 | 14-0-0 |
|--|---|---|
| 0-4-2 | 13-3-12 | 0-4-2 |
| LOADING (psf) SPACING- 2-0-0 TCLL 20.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IBC2021/TPI2014 | CSI. DEFL. in (loc) l/defl L/d TC 0.40 Vert(LL) -0.10 12-13 >999 360 BC 0.72 Vert(CT) -0.17 12-13 >975 240 WB 0.16 Horz(CT) 0.02 10 n/a n/a Matrix-S Wind(LL) 0.09 17-18 >999 240 | PLATES GRIP MT20 197/144 Weight: 60 lb FT = 5% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

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=-1039/115, 3-4=-989/132, 4-5=-970/141, 5-6=-967/155, 6-7=-967/155,

7-8=-969/140, 8-9=-989/132, 9-10=-1039/115

BOT CHORD 2-18=-82/933, 17-18=-82/933, 16-17=-82/933, 15-16=-82/933, 14-15=-82/933,

13-14=-82/933, 12-13=-82/933, 10-12=-82/933

WEBS 6-15=-43/375

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 129 lb uplift at joint 2 and 129 lb uplift at joint 10.
- 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 5-3-6 oc purlins.

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





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

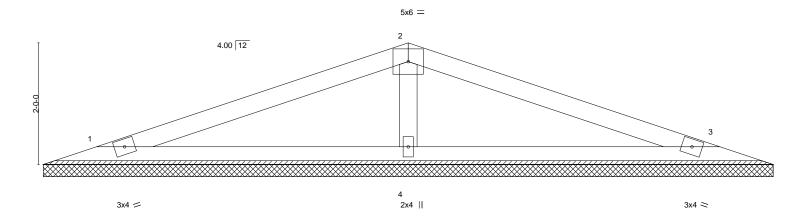
FT = 5%

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 | | | | 12-0-0 | | | | | | |
|---|---|---------------------------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|-----------------------------------|--|--|
| 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. Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 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



Job Truss Truss Type Qty Ply 10 Southeast 149194932 **ORDERS** SE-19192 COMN Job Reference (optional) NVR.

Frederick, MD - 21703

10-0-0

10-0-0

10-0-0

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 22:01:31 2021 Page 1 $ID:?RrLVUNcBotMPeFP6cfGVKyElz_-XUw3txfUO9UinDxqxj_wefGdmq6YdFKzDQYSDkyAZdYNdSydFUQYSDkyAZdYNdSydYndSydYNdSydYNdSydYndSydYndSydYNdSydYNdSydYNdSydYNdSydYNdSydY$ 20-0-0 20-11-4 10-0-0

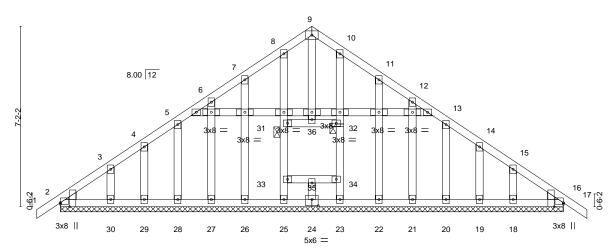
20-0-0

1 Brace at Jt(s): 31, 32

Scale = 1:45.8 4x6 =

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

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



| | 10 | 0-0-0 | | 10-0-0 | | |
|---------------------|---|-----------------------------------|-----------------|--------------|----------|--------------------|
| Plate Offsets (X,Y) | [2:0-0-0,0-0-11], [2:0-1-15,Edge], [16:0- | -0-0,0-0-11], [16:0-1-15,Edge], [| 24:0-3-0,0-3-0] | | | |
| | | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in | (loc) I/defl | L/d PLA | TES GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.06 | Vert(LL) -0.00 | 16 n/r | 120 MT20 | 0 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.04 | Vert(CT) -0.00 | 17 n/r | 120 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.09 | Horz(CT) 0.01 | 16 n/a | n/a | |
| BCDL 10.0 | Code IBC2021/TPI2014 | Matrix-S | | | Weig | ht: 157 lb FT = 5% |

BRACING-

JOINTS

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.2 or 2x4 SPF No.2 *Except*

31-32,33-34,24-35,9-36: 2x4 SP No.3 or 2x4 SPF Stud

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

WEDGE

Left: 2x4 SP or SPF No.3 or Stud , Right: 2x4 SP or SPF No.3 or Stud

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=185(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 22, 21,

20, 19, 18

All reactions 250 lb or less at joint(s) 2, 16, 25, 23, 26, 27, 28, 29, 30,

22, 21, 20, 19, 18, 24

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=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) Gable studs spaced at 1-4-0 oc.

required maximum reaction.

- 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) 2, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18.
- 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





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 02_Valley Qty 154705066 **ORDERS** VT-00861 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:37 2022 Page 1 ID:lwgfHqLuldM7W6Kxo5rjJByUXxn-tl0UVwpW5nlQcYixzK5McV9S1Qbd2s7Y0umzOByTqEK NVR. Frederick, MD - 21703 1-6-0 3-0-0 1-6-0 Scale = 1.7.73x4 = 2 8.00 12 3 3x4 🖊 3x4 ≫ 3-0-0 3-0-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) BC Lumber DOL 1.15 0.08 Vert(CT) n/a n/a 999 TCDL 10.0

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 3-0-0 oc purlins.

Weight: 8 lb

FT = 5%

LUMBER-

BCLL

BCDI

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

0.0

10.0

REACTIONS. (size) 1=3-0-0, 3=3-0-0 Max Horz 1=23(LC 11)

> Max Uplift 1=-22(LC 12), 3=-22(LC 13) Max Grav 1=108(LC 18), 3=108(LC 19)

Rep Stress Incr

Code IBC2021/TPI2014

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

WB

Matrix-P

0.00

- 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

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



October 13,2022





Job Truss Truss Type 02_Valley Qty 154705067 **ORDERS** VT-00862 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:38 2022 Page 1 ID:D6E1UAMWWxU_8Gv8MpMysOyUXxm-LVatjFp8s4tHDiH7X2cb9ihYkpqYnJNiFYVWwdyTqEJ NVR. Frederick, MD - 21703, 3-0-0 6-0-0 3-0-0 Scale = 1:14 7 3x4 =2 8.00 12 3x4 / 3x4 × 6-0-0 6-0-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.41 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) BC Lumber DOL 1.15 0.55 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IBC2021/TPI2014 Matrix-P Weight: 18 lb FT = 5%**BCDI** 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 1=58(LC 9)

Max Uplift 1=-54(LC 12), 3=-54(LC 13)

Max Grav 1=292(LC 18), 3=292(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.



October 13,2022



Job Truss Type 02_Valley Truss Qty 154705068 **ORDERS** VT-00863 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:39 2022 Page 1 NVR. Frederick, MD - 21703 ID:hJoPiVN8HEcrmQUKwWtBOcyUXxl-ph8FwbqmdO?8rsrK5l7rhwEfiDE1WlarUCF3T3yTqEllup files for the control of the co4-6-0 9-0-0 4-6-0 4-6-0 Scale = 1:20 1 4x6 = 2 8.00 12 3x4 / 3x4 × 3x4 || 9-0-0 9-0-0 LOADING (psf) SPACING-DEFL. **PLATES GRIP** 2-0-0 CSI L/d in (loc) I/defl TCLL 30.0 Plate Grip DOL TC 0.65 Vert(LL) 999 197/144 1.15 n/a n/a MT20 (Roof Snow=30.0) Lumber DOL BC 0.28 Vert(CT) 999 1.15 n/a n/a TCDL WB Rep Stress Incr YES 0.07 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 31 lb FT = 5%BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

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

REACTIONS. (size) 1=9-0-0, 3=9-0-0, 4=9-0-0 Max Horz 1=-92(LC 8)

Max Uplift 1=-73(LC 12), 3=-86(LC 13), 4=-27(LC 12)

Max Grav 1=312(LC 18), 3=312(LC 19), 4=364(LC 18)

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

WEBS 2-4=-264/218

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.

October 13,2022



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

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



02_Valley Job Truss Type Truss Qty Ply 154705069 **ORDERS** VT-00864 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:40 2022 Page 1 ID:9VMovrOm2YkhOZ3WUEOQxpyUXxk-Hthd8xrPOi7?T0QWeTe4E7nqadbLFCu?is_d?WyTqEH NVR. Frederick, MD - 21703 12-0-0 6-0-0 6-0-0 Scale = 1:25.3 4x6 = 3 10 8.00 12 3x4 || ₄3x4 || 12 3x4 <> 3x4 / 3x4 II 3x4 II 3x4 II 12-0-0 12-0-0 LOADING (psf) SPACING-**PLATES GRIP** 2-0-0 CSI DEFL. L/d in (loc) I/defl TCLL 30.0 Plate Grip DOL TC Vert(LL) 999 197/144 1.15 0.64 n/a n/a MT20 (Roof Snow=30.0) Lumber DOL BC 0.21 Vert(CT) 999 1.15 n/a n/a TCDL WB 5 Rep Stress Incr YES 0.13 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 45 lb FT = 5%BCDL 10.0 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

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

REACTIONS. All bearings 12-0-0.

(lb) - Max Horz 1=-127(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-210(LC 12), 6=-209(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=341(LC 19), 8=561(LC 18), 6=561(LC 19)

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

WEBS 3-7=-255/83, 2-8=-507/413, 4-6=-507/413

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) 0-5-12 to 4-10-8, Corner(3R) 4-10-8 to 7-1-8, Corner(3E) 7-1-8 to 11-6-4 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=210, 6=209.



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

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

October 13,2022



02_Valley Job Truss Truss Type Qty Ply 154705070 **ORDERS** VT-00865 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:41 2022 Page 1 ID:dhwA6BPOpssY?jdj1xvfT1yUXxj-I4F?LHs19?Fs4A?iCA9JnLJ?D1yq_fD8xWkAXyyTqEG NVR. Frederick, MD - 21703 15-0-0 7-6-0 7-6-0 Scale = 1:31.4 4x6 = 3 8.00 12 12 3x4 II 3x4 || 13 3x4 // 3x4 <> 9 6 87 3x4 || 4x4 = 3x4 || 15-0-0 15-0-0 Plate Offsets (X,Y)--[8:0-2-0,0-1-4] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 30.0 Plate Grip DOL TC 0.65 Vert(LL) 999 197/144 1.15 n/a n/a MT20 (Roof Snow=30.0) BC Lumber DOL 1.15 0.19 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 59 lb FT = 5% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 or 2x4 SPF Stud **OTHERS** REACTIONS. All bearings 15-0-0. (lb) - Max Horz 1=-161(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-230(LC 12), 6=-230(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=334(LC 18), 9=592(LC 18), 6=592(LC 19) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-7=-254/22, 2-9=-512/383, 4-6=-512/383 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) 0-5-12 to 4-10-8, Corner(3R) 4-10-8 to 10-1-8, Corner(3E) 10-1-8 to 14-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.602) 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=230, 6=280.

SEAL
28228 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

October 13.2022



02_Valley Truss Type Job Truss Qty 154705071 **ORDERS** VT-00866 VCOM Job Reference (optional) NVR. Frederick, MD - 21703 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:42 2022 Page 1 $ID: dhwA6BPOpssY? jdj\overset{-}{1}xvfT1yUXxj-DGpNZdsfwJNjiKaumtgYJYs8ERGlj5tHAATk4OyTqEF$ 9-0-0 18-0-0 9-0-0 Scale = 1:37.94x6 = 3 8.00 12 3x4 || 3x4 || 3x4 <> 3x4 🖊 9 87 6 4x4 =3x4 II 3x4 II 18-0-0 18-0-0 Plate Offsets (X,Y)--[8:0-2-0,0-1-4] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 30.0 Plate Grip DOL TC 0.82 Vert(LL) 999 197/144 1.15 n/a n/a MT20 (Roof Snow=30.0) BC Lumber DOL 1.15 0.28 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 74 lb FT = 5%BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 or 2x4 SPF Stud **OTHERS** REACTIONS. All bearings 18-0-0. (lb) - Max Horz 1=195(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-281(LC 12), 6=-281(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=300(LC 18), 9=686(LC 18), 6=686(LC 19) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-9=-576/406, 4-6=-576/406 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) 0-5-12 to 5-0-0, Corner(3R) 5-0-0 to 13-0-0, Corner(3E) 13-0-0 to 17-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.602) 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=281, 6=281.

SEAL
28228 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.