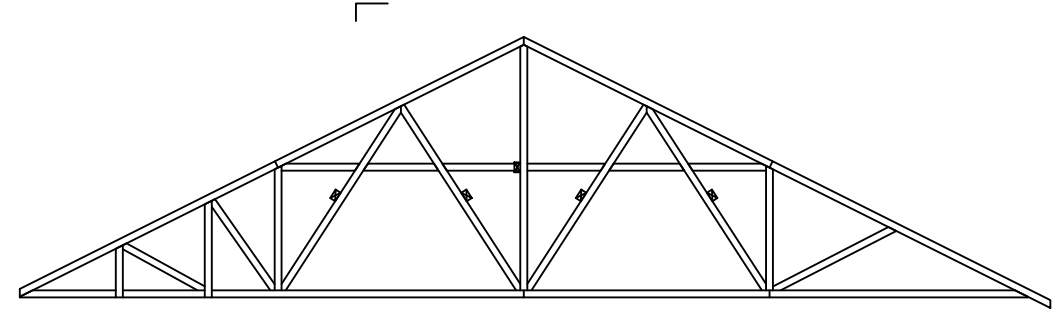
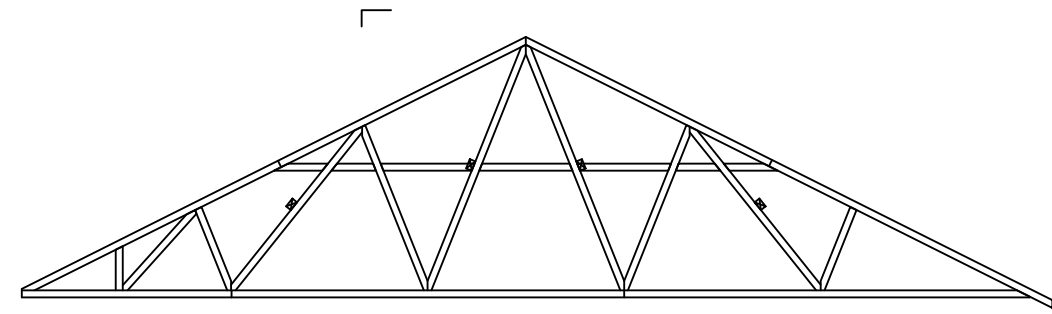


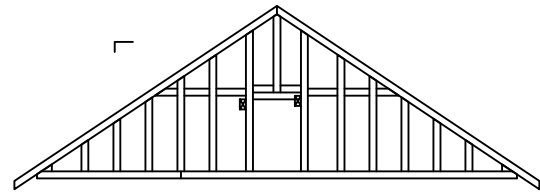
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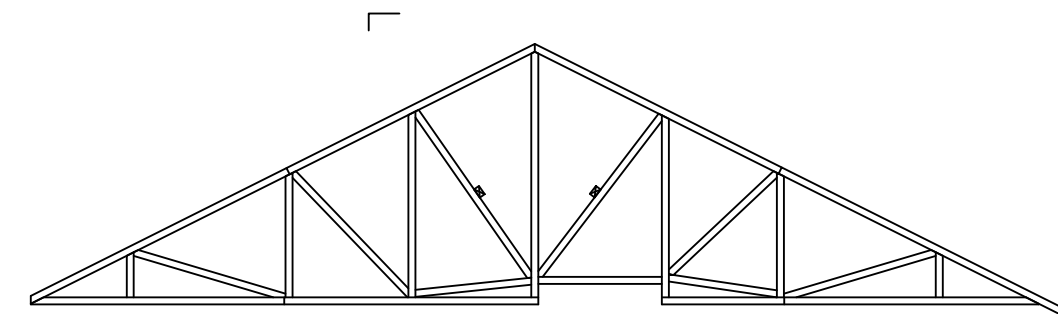
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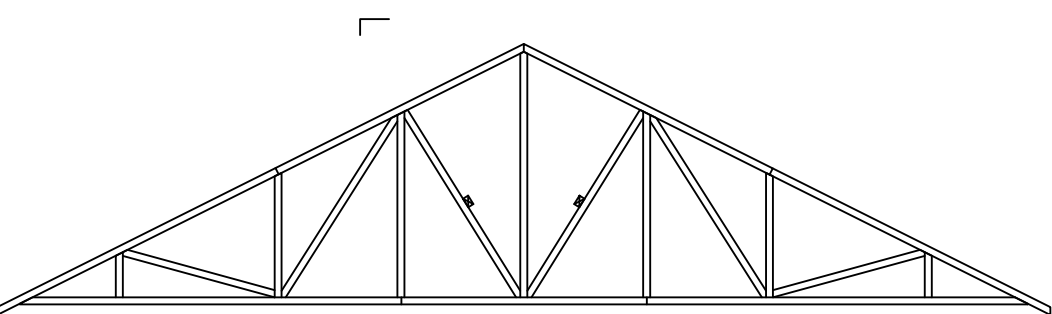
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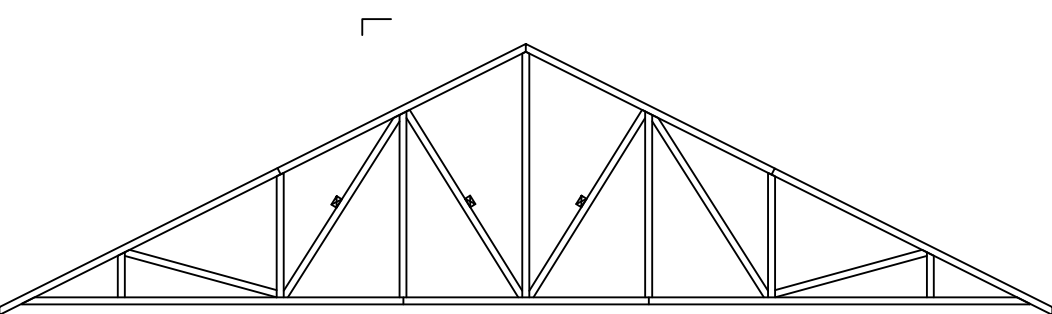
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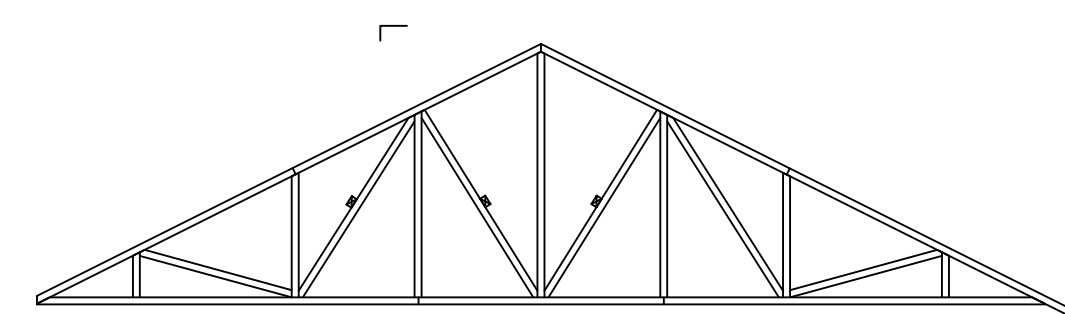
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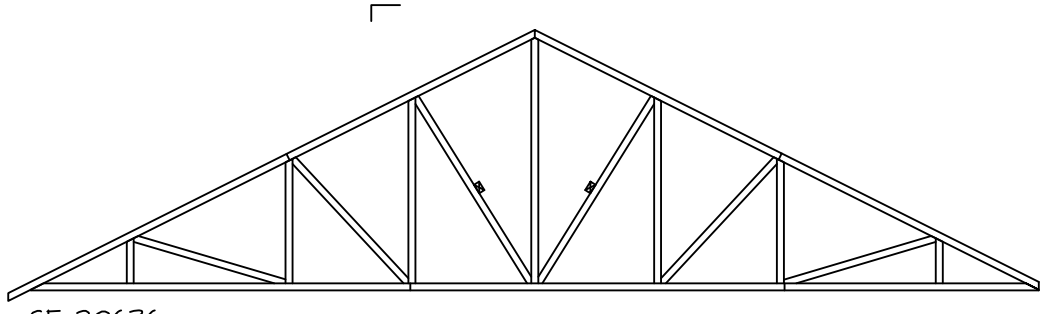
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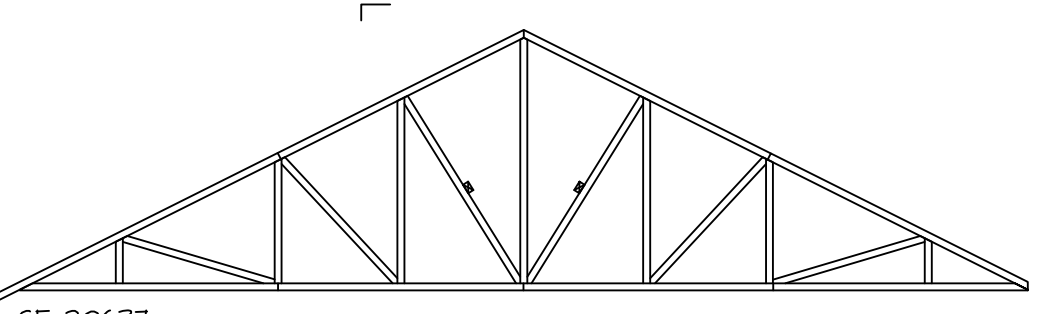
SE-20633



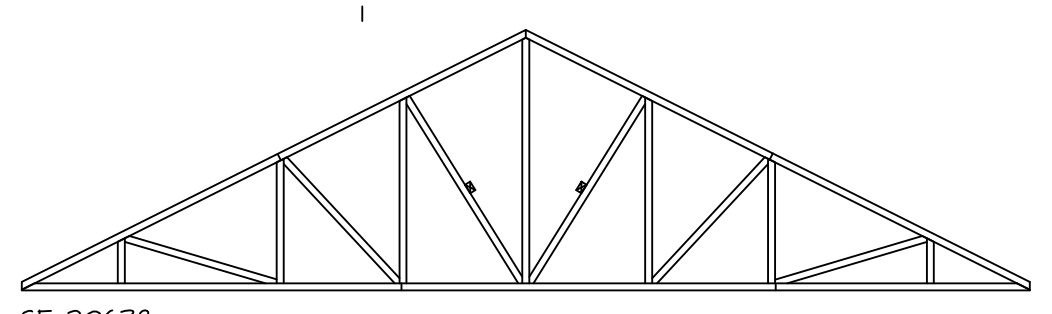
SE-20635



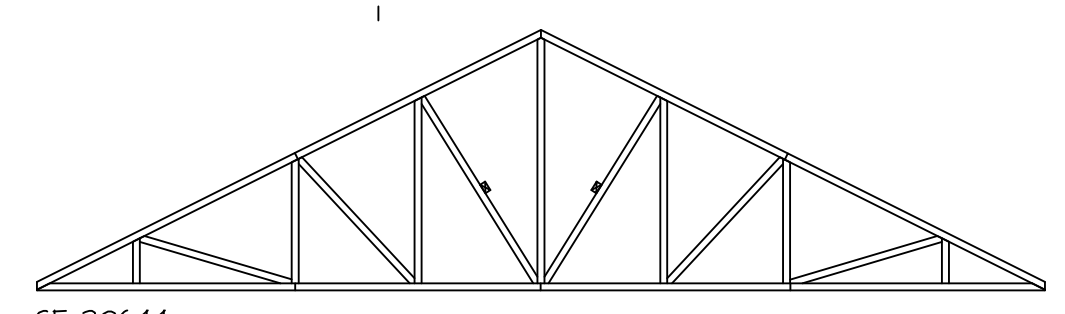
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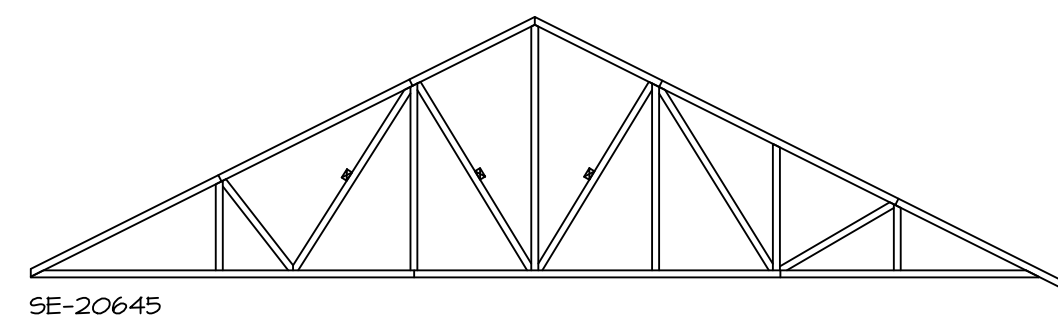
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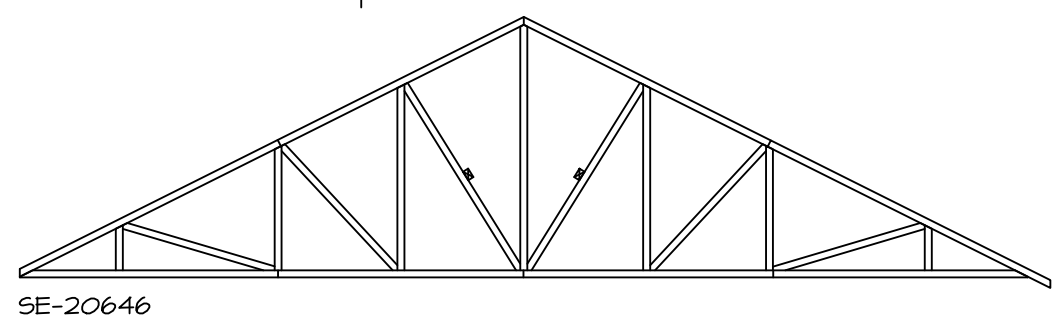
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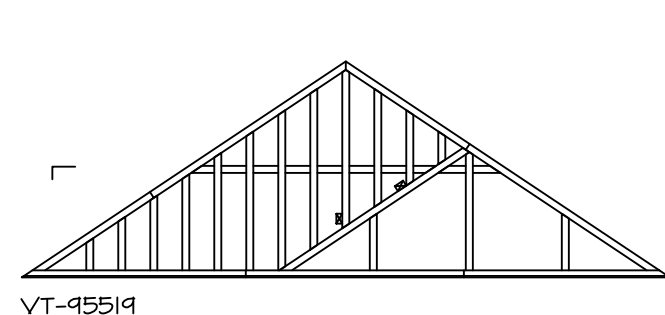
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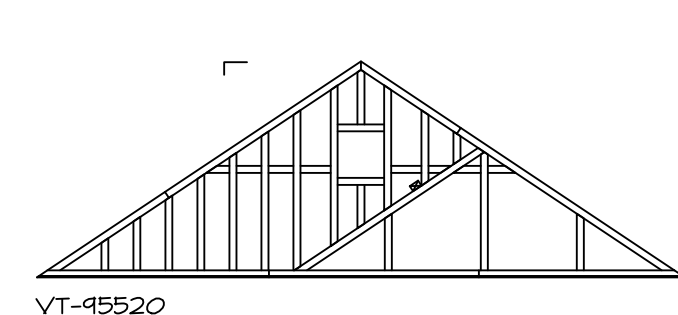
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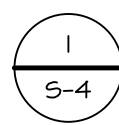
SE-20646



VT-45514



VT-45520



TRUSS BRACING DETAILS

SCALE: 1/4" = 1'-0"

TRUSS BRACING NOTES:

- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- 2X4 SPT#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) 10D NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.
- WEB "I" BRACE, DETAIL **3/RF-1c**, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF 2X4 LATERAL BRACING.
- DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (**4/RF-1c**)
- STUDDED GABLE BRACING DETAIL (**1/RF-1c**) TO BE UTILIZED FOR TRUSSES 6'-4" IN HEIGHT OR GREATER.
- PARTIALLY SHEATHED GABLES, SEE (**5/RF-1c**) FOR "L" BRACING WHEN REQUIRED.
- LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWINGS.
- SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

SHEET NO. **S-4**

MODEL **GRAND CAYMAN**

DRAWING TITLE **TRUSS BRACING DETAILS**

OPTION DESCRIPTION

21

SET NO. **60M00**

VERSION **01**

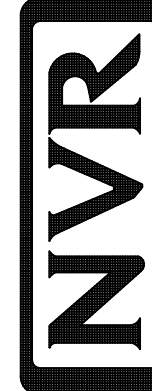
RELEASE NO. **----**

DRAWN BY **BN**

DATE: **2/02/20**

OPTION

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NVR, Inc., Suite 100
5285 Westview Drive
Frederick, MD 21703

DIV-COMM-LOT-UNIT

COMM-LOT

STREET ADDRESS

CITY

STATE

ZIP

RLH-VK-0099

KIPLING VILLAGE - 0099

APT. NO. ----

NC

21526

Job	Truss	Truss Type	Qty	Ply	10_Southeast	I49147380
ORDERS	SE-14530	COMN	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:09 2021 Page 1
ID:5lb56nez?NGp7jN5pS3vTuyrxGa-ZyR6O84R30qr65gSzJU8?aMQWGCeErsLQKGtZrEYBF9C

0-11-4 5-1-1 10-0-0 14-10-15 20-0-0 20-11-4
0-11-4 5-1-1 4-10-15 4-10-15 5-1-1 0-11-4

4x6 ||

Scale = 1:44.6

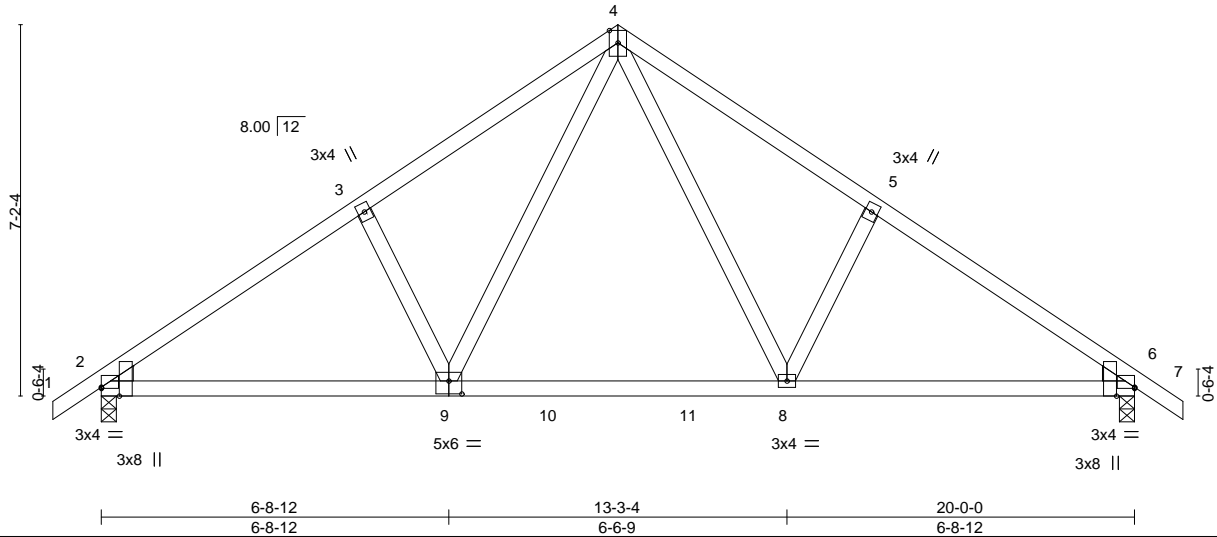


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [2:0-2-1,Edge], [6:0-2-1,Edge], [6:0-0-0,0-0-4], [9:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSL	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/TPI2014	Matrix-S	Wind(LL) 0.03	2-9	>999	240	Weight: 103 lb	FT = 5%

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=116(LC 10), 6=116(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.

TOP CHORD 2-3=-1111/140, 3-4=-977/207, 4-5=-977/207, 5-6=-1111/140
BOT CHORD 2-9=-145/938, 8-9=-2/615, 6-8=-38/840
WEBS 3-9=-269/210, 4-9=-122/481, 4-8=-122/481, 5-8=-269/210

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=116, 6=116.
- 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.
- 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.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12,2022

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

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

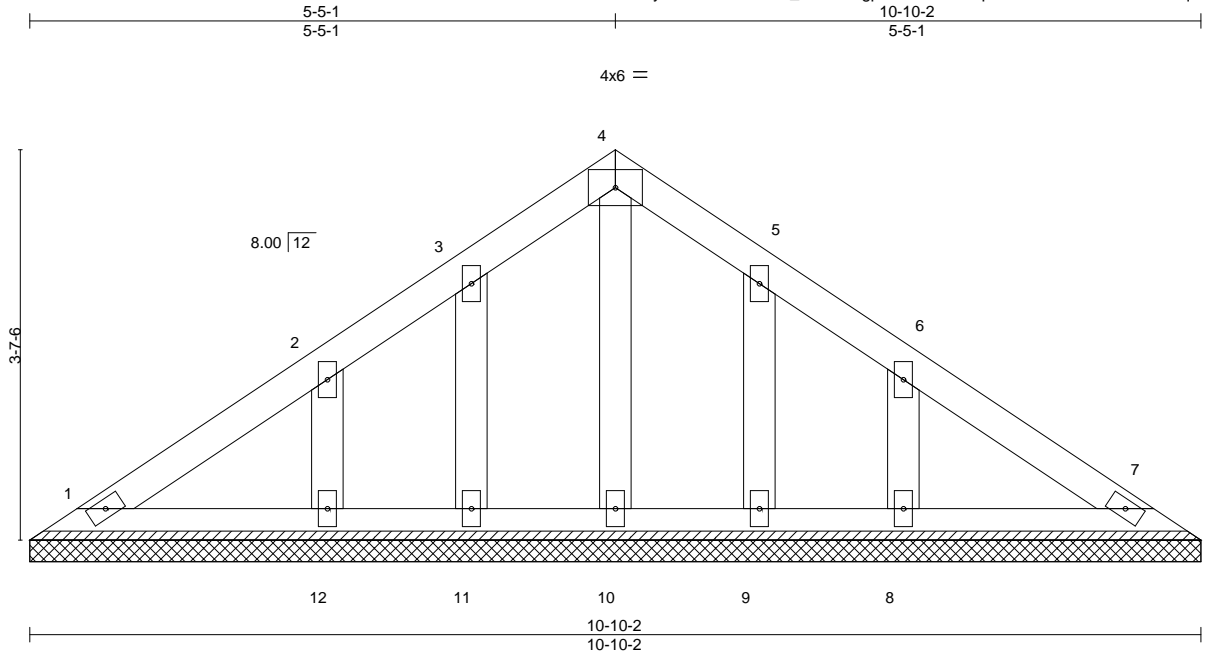
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-95382	VCOM	1	1	147778952

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 04:04:47 2021 Page 1
ID:i52JfI2yM0mmtcvT3fwF?_zQDKR-gpokeULZOoVopEEERTKJrWW10LL6PF7qOGMY7yygTHE



Scale = 1:21.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.08	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IBC2021/TPI2014			Weight: 49 lb	FT = 5%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 10-10-2.

(lb) - Max Horz 1=111(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 9 except 12=121(LC 12), 8=121(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9 except 12=342(LC 18), 8=342(LC 19)

FORCES.

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

WEBS 2-12=281/139, 6-8=281/140

NOTES- (8-9)

- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 9 except (jt=lb) 12=121, 8=121.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



September 8, 2021

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

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-17122	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49171046
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:01:55 2021 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyrxGa-a9INS?Kr380S94h3wDLRuiqU38uca1hA50?qaDyAujA

0-11-4	5-7-12	10-9-3	15-10-9	21-0-0	26-1-7	31-2-13	36-4-4	42-0-0	42-11-4
0-11-4	5-7-12	5-1-7	5-1-7	5-1-7	5-1-7	5-1-7	5-1-7	5-7-12	0-11-4

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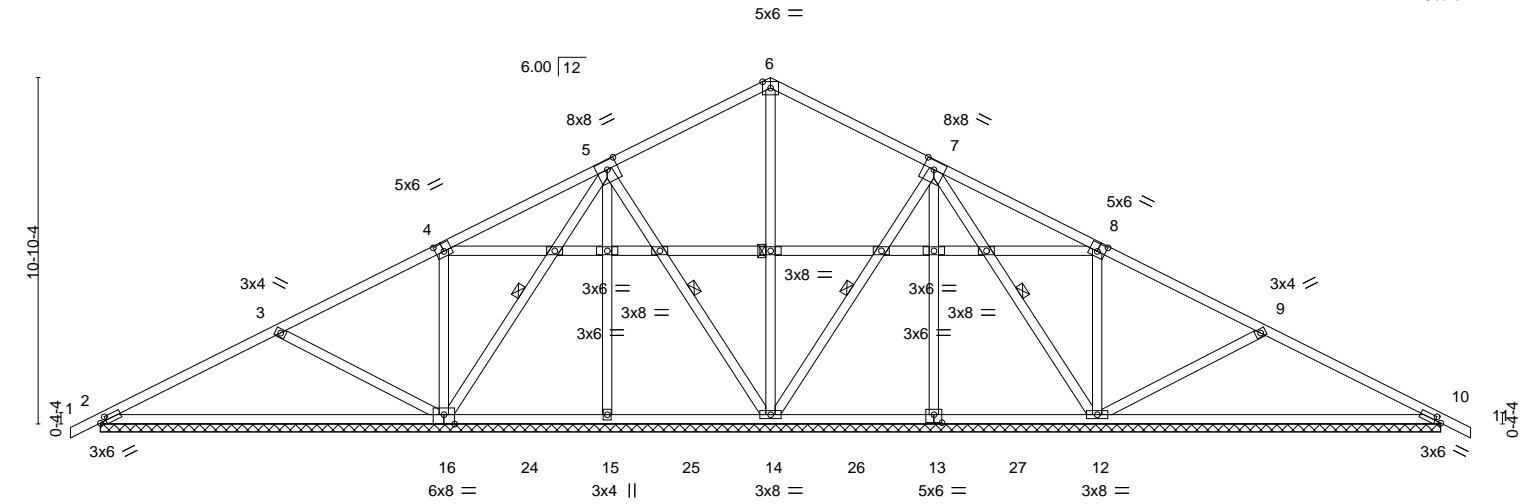


Plate Offsets (X,Y)--		[2:0-2-5,0-1-8], [4:0-3-0,0-3-0], [5:0-4-0,0-3-4], [7:0-4-0,0-3-4], [8:0-3-0,0-3-0], [10:0-2-5,0-1-8], [13:0-3-0,0-3-0], [16:0-4-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44
TCDL 10.0	Lumber DOL	1.15	BC 0.93
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30
BCDL 10.0	Code	IBC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.02	11	n/r
Vert(CT)	0.06	11	n/r
Horz(CT)	0.01	10	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 288 lb		FT = 5%	

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 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-16, 5-14, 6-14, 7-14, 7-12

REACTIONS.

All bearings 42-0-0.

(lb) - Max Horz 2=188(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 10, 15, 13 except 16=214(LC 10), 12=217(LC 11)

Max Grav All reactions 250 lb or less at joint(s) except 2=400(LC 23), 16=867(LC 23), 14=527(LC 1), 12=867(LC 24), 10=400(LC 24), 15=330(LC 17), 13=323(LC 26)

FORCES.

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

TOP CHORD 2-3=-317/114, 4-5=-21/251, 9-10=-317/83

BOT CHORD 2-16=-109/281

WEBS 3-16=-413/228, 4-16=-280/183, 6-14=-333/8, 8-12=-280/182, 9-12=-413/227

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) 2, 14, 10, 15, 13 except (jt=lb) 16=214, 12=217.

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.



January 12, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-17124	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49171048
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:01:58 2021 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyrxGa-?kRV40NkM3O10XPecLu8VKS?QLuXnOUcn_EVBYYAj7

5-7-12	10-9-3	15-10-9	21-0-0	26-1-7	31-2-13	36-4-4	42-0-0	42-11-4	0-11-4
5-7-12	5-1-7	5-1-7	5-1-7	5-1-7	5-1-7	5-1-7	5-7-12	0-11-4	

Scale = 1:72.3

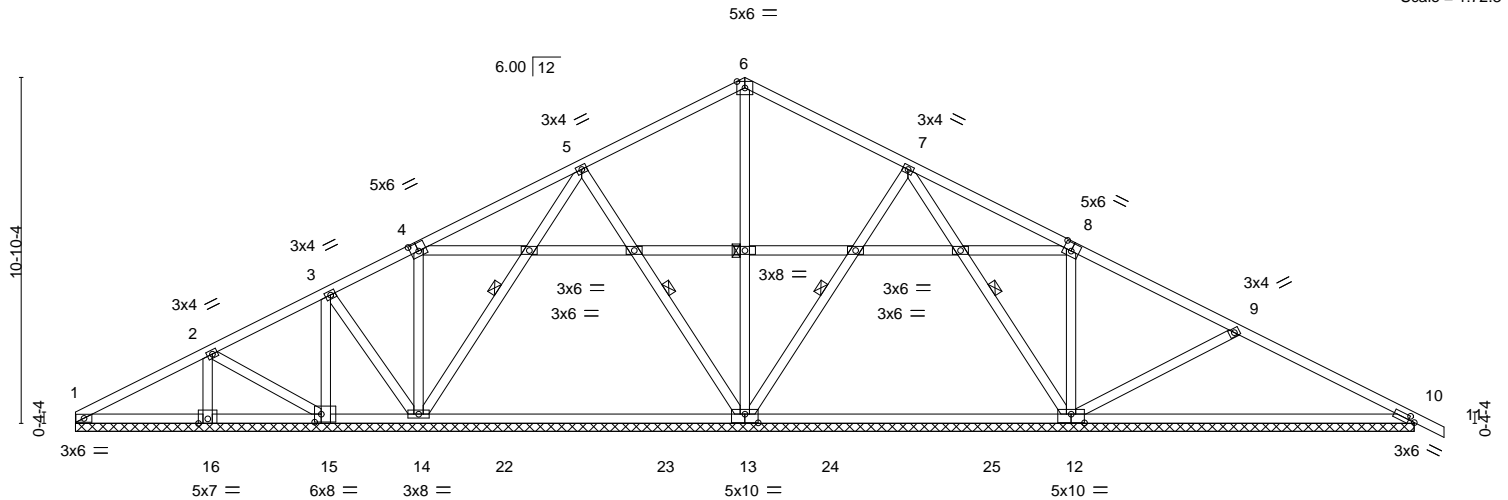


Plate Offsets (X,Y)--		[4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:0-2-5,0-1-8], [12:0-5-0,0-3-4], [13:0-5-0,0-3-4], [15:0-2-8,0-3-0]	
LOADING (psf)	SPACING	2-0-0	CSI
TCLL 20.0	Plate Grip DOL 1.15		TC 0.43
TCDL 10.0	Lumber DOL 1.15		BC 0.98
BCLL 0.0 *	Rep Stress Incr YES		WB 0.30
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL) 0.01	11	n/r	120
Vert(CT) 0.06	11	n/r	120
Horz(CT) 0.01	10	n/a	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 277 lb		FT = 5%	

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 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-14, 5-13, 6-13, 7-13, 7-12

REACTIONS.

All bearings 42-0-0.

(lb) - Max Horz 1=195(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 16, 13, 10, 15 except 14=145(LC 10), 12=227(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 15 except 16=348(LC 23), 14=651(LC 25), 13=898(LC 2), 12=960(LC 24), 10=400(LC 24)

FORCES.

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

TOP CHORD 9-10=321/82

WEBS 6-13=314/0, 7-12=296/77, 8-12=291/189, 9-12=408/227, 2-16=252/104

NOTES-

(8-11)

- Unbalanced roof live loads have been considered for this design.
- 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 16, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 16, 13, 10, 15 except (jt=lb) 14=145, 12=227.
- 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.
- 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.
- 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.
- Framing and bracing of the gable end frame shall be provided by the building designer.



January 12, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast	I49171051
ORDERS	SE-17127	COMN	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:02:02 2021 Page 1
ID:i52JfI2yM0mmtcvT3fwF?_zQDKR-tVg0wOQEQHvTV9jPrBz4gAdnAyVEjFoCicCiKJyAuj3

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

4x6 =

Scale = 1:45.9

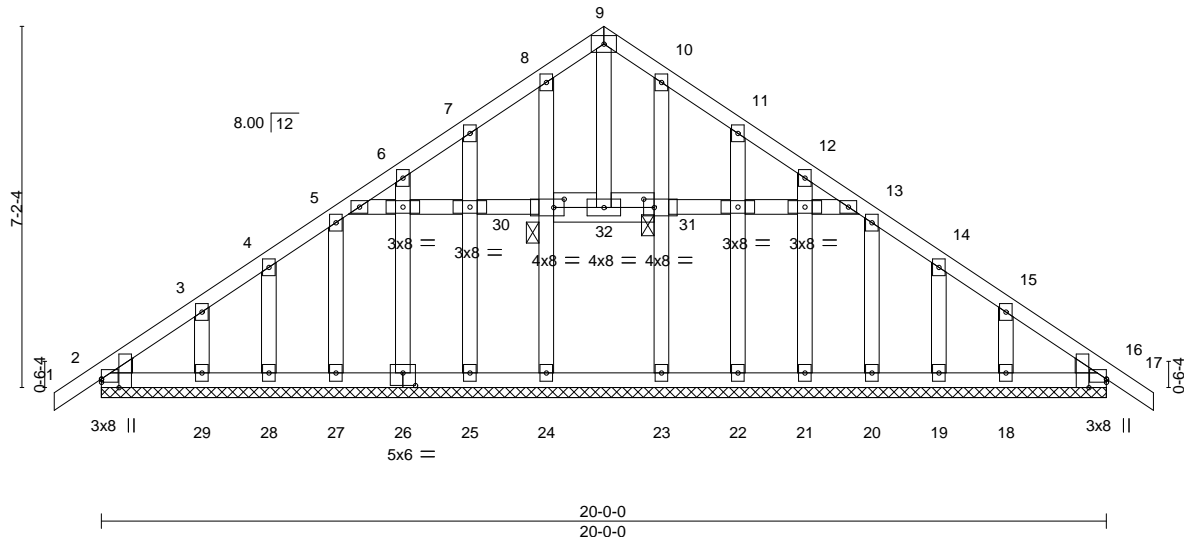


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [2:0-2-1,Edge], [16:0-0-0,0-0-12], [16:0-2-1,Edge], [26:0-3-0,0-0-3-0], [30:0-2-8,0-2-0], [31:0-2-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	16	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	17	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	16	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S					Weight: 154 lb	FT = 5%

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*
30-31,9-32: 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

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.
JOINTS 1 Brace at Jt(s): 30, 31

REACTIONS.

All bearings 20-0-0.
(lb) - Max Horz 2=185(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 24, 23, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18

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

NOTES- (10-13)

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 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, 22, 21, 20, 19, 18.
- 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.
- 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.
- 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.
- Framing and bracing of the gable end frame shall be provided by the building designer.



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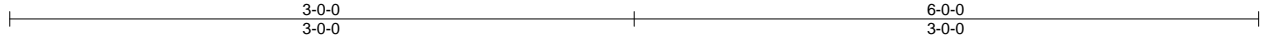
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Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-95517	VCOM	1	1	147779328

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:22 2021 Page 1
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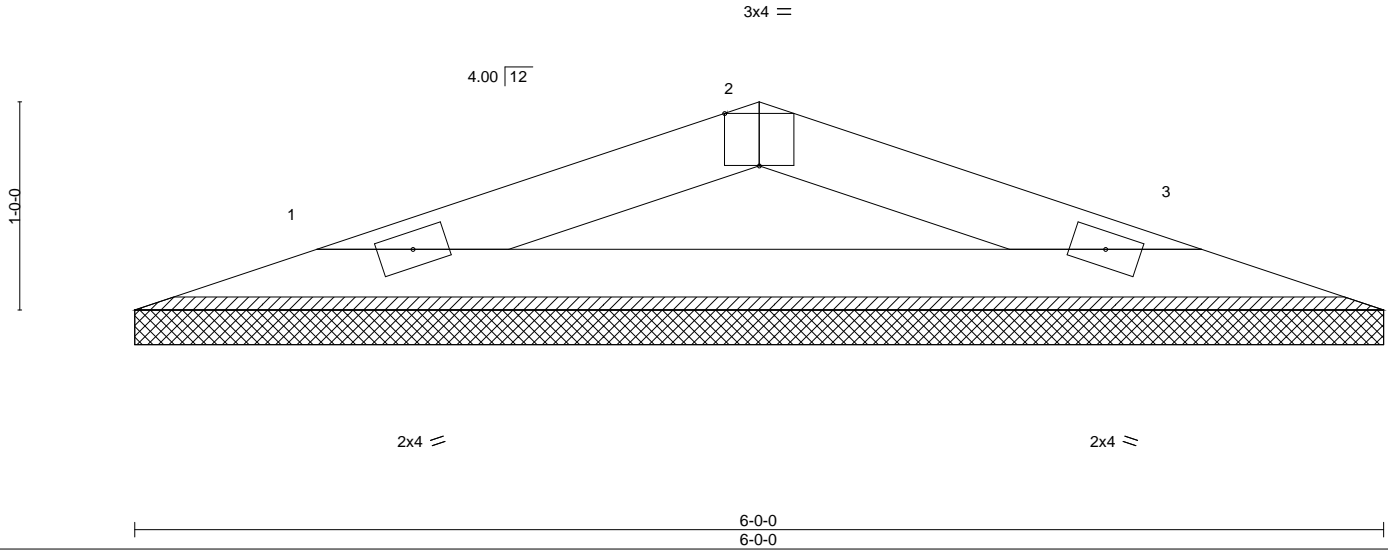


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	197/144
(Roof Snow=30.0)	Lumber DOL	1.15	BC 0.38	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCLL 0.0	Code IBC2021/TPI2014		Matrix-P						
BCDL 10.0								Weight: 16 lb	FT = 5%

LUMBER-

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

REACTIONS.

(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)

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- (7-8)

- 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.
- 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.



September 16,2021

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

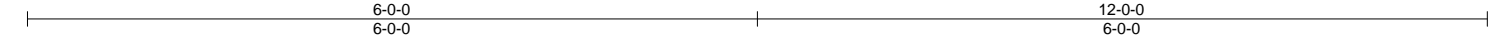
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Edenton, NC 27932

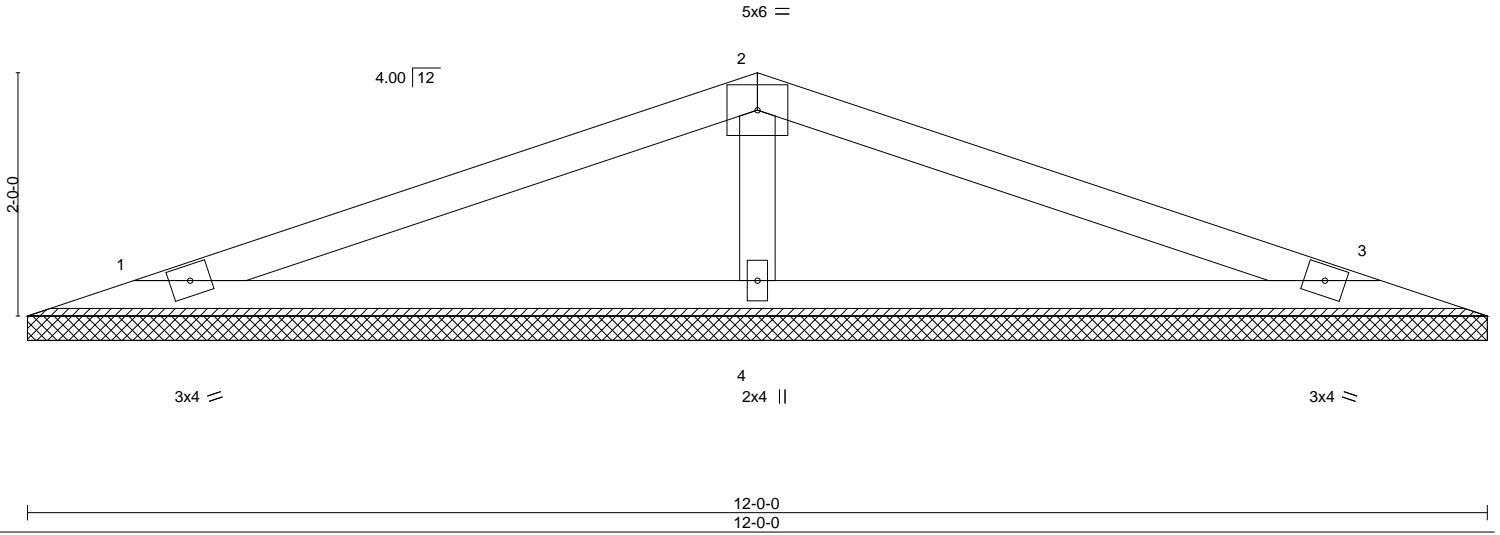
Job	Truss	Truss Type	Qty	Ply	02_Valley	I47779329
ORDERS	VT-95518	VCOM	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:23 2021 Page 1
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Scale = 1:18.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2'-0"	TC 0.71	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.43	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IBC2021/TPI2014							Weight: 36 lb	FT = 5%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=12'-0", 3=12'-0", 4=12'-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- (7-8)

- 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
- 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=1.0; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- 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.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



September 16, 2021

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18663	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194707
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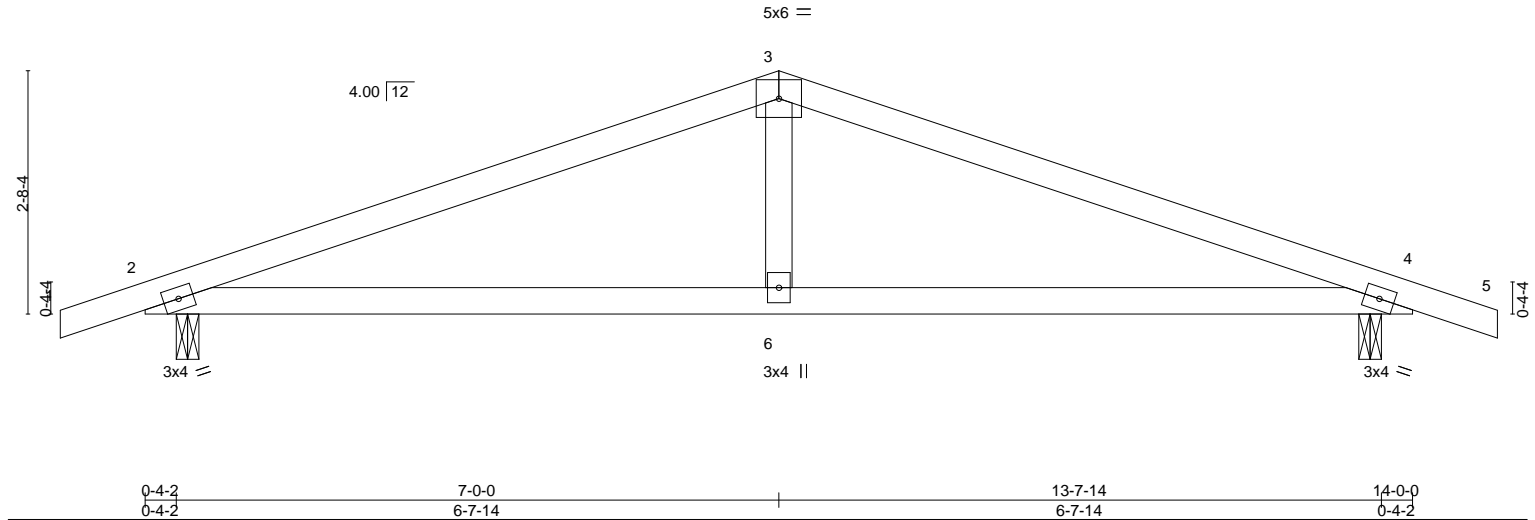
NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:29 2021 Page 1

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-0-11-4 0-11-4	7-0-0 7-0-0	14-0-0 7-0-0	14-11-4 0-11-4
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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
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.06 4-6 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.14 2-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.02 4 n/a n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.05 2-6 >999 240	Weight: 49 lb	FT = 5%

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 3-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 4=129.
- 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.
- 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.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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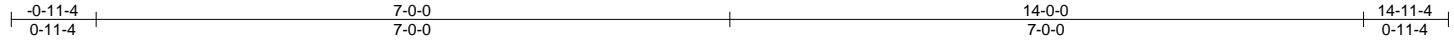
818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18664	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194708
Job Reference (optional)						

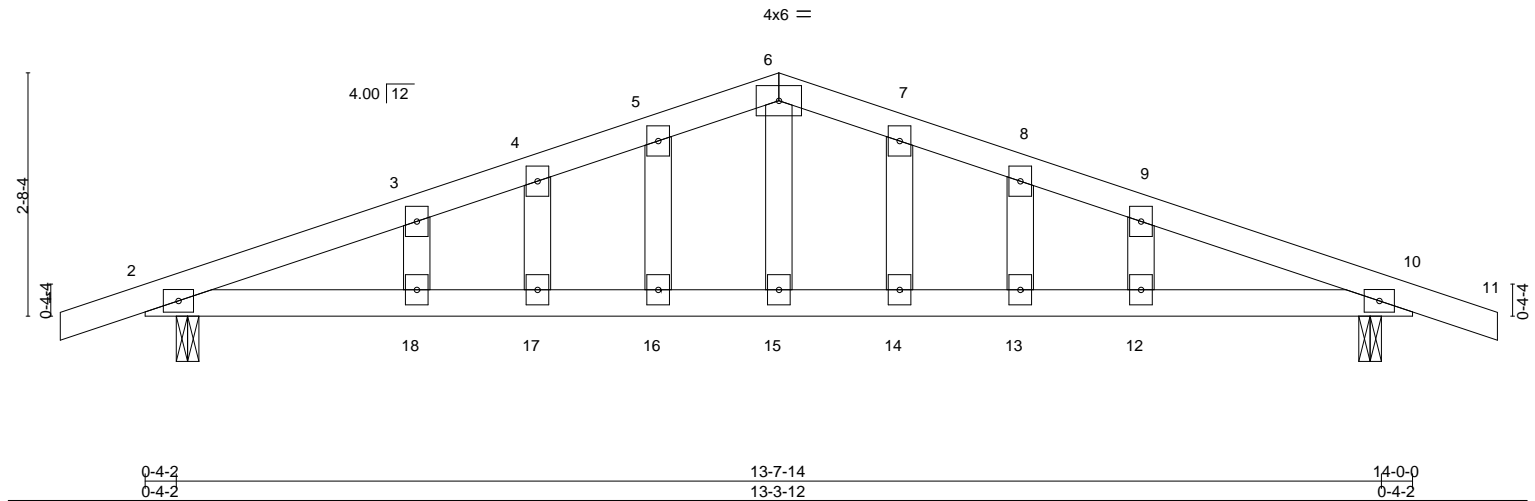
NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:30 2021 Page 1

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Scale = 1:25.5



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

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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=-970/140, 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)

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 10=129.
- 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.
- 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.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12, 2022

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

ENGINEERING BY
TRENCO
A MITEK Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18665	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I53690301
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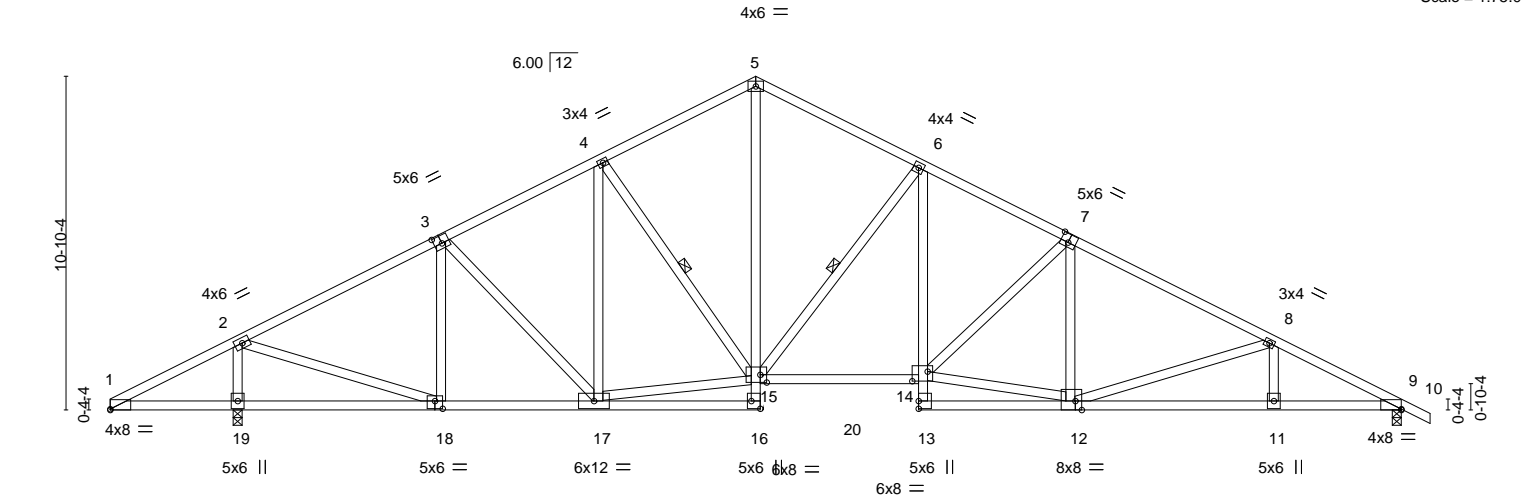
NVR, Frederick, MD - 21703,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 16 12:07:28 2022 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyxGa-ZVw1epS8okxzm3VirJqzJXX5z2Q?XskqJgtAaDynHAj

4-1-12	10-9-3	15-10-9	21-0-0	26-5-5	31-2-13	37-10-4	42-0-0	42-11-4
4-1-12	6-7-7	5-1-7	5-1-7	5-5-5	4-9-8	6-7-7	4-1-12	0-11-4

Scale = 1:75.0



4-0-0	4-1-12	10-9-3	15-10-9	21-0-0	26-5-5	31-2-13	37-10-4	42-0-0
4-0-0	0-1-12	6-7-7	5-1-7	5-1-7	5-5-5	4-9-8	6-7-7	4-1-12

Plate Offsets (X,Y)-- [1:0-0-0,0-0-5], [3:0-3-0,0-3-0], [7:0-3-0,0-3-4], [9:0-0-0,0-0-5], [12:0-2-8,Edge], [14:0-6-0,0-3-12], [15:0-2-8,0-3-0], [16:Edge,0-3-8], [18:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.15	14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.34	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.12	9	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.13	14	>999	240		

Weight: 272 lb FT = 5%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
1-18,12-13: 2x4 SP No.3 or 2x4 SPF Stud	6-0-0 oc bracing: 1-19,18-19.
WEBS 2x4 SP No.3 or 2x4 SPF Stud	WEBS 1 Row at midpt 6-15, 4-15

REACTIONS.	(size)
19=0-3-8, 9=0-3-8	
Max Horz 19=195(LC 15)	
Max Uplift 19=242(LC 10), 9=232(LC 11)	
Max Grav 19=1856(LC 1), 9=1555(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-51/288, 2-3=-1713/223, 3-4=-1734/264, 4-5=-1646/302, 5-6=-1671/285, 6-7=-2276/338, 7-8=-2468/349, 8-9=-2951/407
BOT CHORD	17-18=-207/1448, 11-12=-304/2571, 9-11=-304/2571, 14-15=-56/1980
WEBS	5-15=-151/1113, 6-14=-87/699, 8-12=-478/181, 3-18=-413/105, 2-18=-105/1717, 2-19=-1718/312, 6-15=-911/257, 12-14=-134/2139, 7-14=-272/167, 15-17=-133/1472

- NOTES-** (6-8)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=242, 9=232.
 - 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.
 - 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.
 - 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.



August 17,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

ENGINEERING BY
TRENCO
A MITEK Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-20632	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I53690302
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NVR, Frederick, MD - 21703,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 16 12:07:29 2022 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyrxGa-1hUPs9TnZ23qNC3uP0LCsk4GzRkiGOHzYKcj6fynHAI

0-11-4 0-11-4	4-1-12 4-1-12	5-7-12 1-6-0	10-9-3 5-1-7	15-10-9 5-1-7	21-0-0 5-1-7	26-1-7 5-1-7	31-2-13 5-1-7	36-4-4 5-1-7	37-10-4 1-6-0	42-0-0 4-1-12	42-11-4 0-11-4
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Scale = 1:70.9

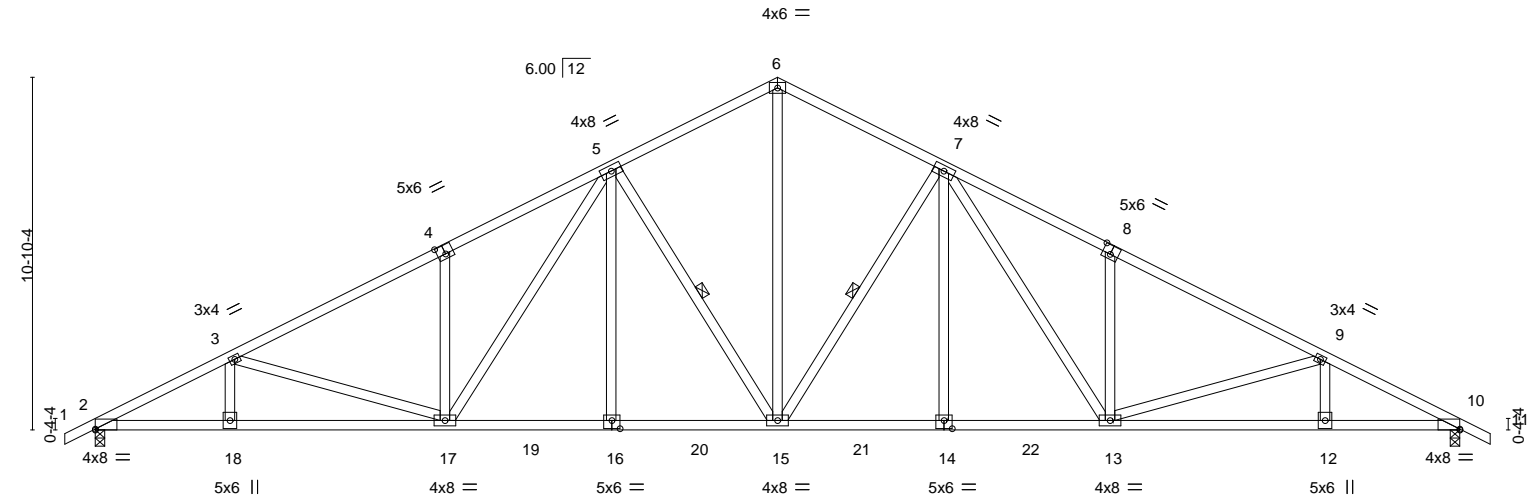


Plate Offsets (X,Y)--		[2:0-0-0,0-0-5], [4:0-3-0,0-3-4], [8:0-3-0,0-3-4], [10:0-0-0,0-0-5], [14:0-3-0,0-3-0], [16:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70
TCDL 10.0	Lumber DOL	1.15	BC 0.85
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62
BCDL 10.0	Code	IBC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.21	14-15	>999
Vert(CT)	-0.43	14-15	>999
Horz(CT)	-0.17	2	n/a
Wind(LL)	0.17	14	>999
PLATES	GRIP		
MT20	197/144		
Weight: 269 lb	FT = 5%		

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 2-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-3-12 oc bracing: 12-13
8-3-6 oc bracing: 10-12.
WEBS 1 Row at midpt 5-15, 7-15

REACTIONS.

(size) 10=0-3-8, 2=0-3-8
Max Horz 10=188(LC 10)
Max Uplift 10=239(LC 11), 2=239(LC 10)
Max Grav 10=1733(LC 1), 2=1733(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3329/422, 3-4=-2851/366, 4-5=-2838/493, 5-6=-1946/329, 6-7=-1946/329,
7-8=-2837/493, 8-9=-2852/367, 9-10=-3329/419
BOT CHORD 2-18=-316/2905, 17-18=-316/2905, 16-17=-87/2104, 15-16=-87/2105, 14-15=-203/2104,
13-14=-203/2105, 12-13=-502/2904, 10-12=-502/2904
WEBS 3-17=-473/176, 4-17=-370/226, 5-17=-244/762, 5-15=-781/253, 6-15=-183/1441,
7-15=-780/253, 7-13=-244/759, 8-13=-369/226, 9-13=-471/173, 5-16=0/265, 7-14=0/265

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=239, 2=239.
- 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.
- 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.
- 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.



August 17,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast	I61259435
ORDERS	SE-20635	COMN	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

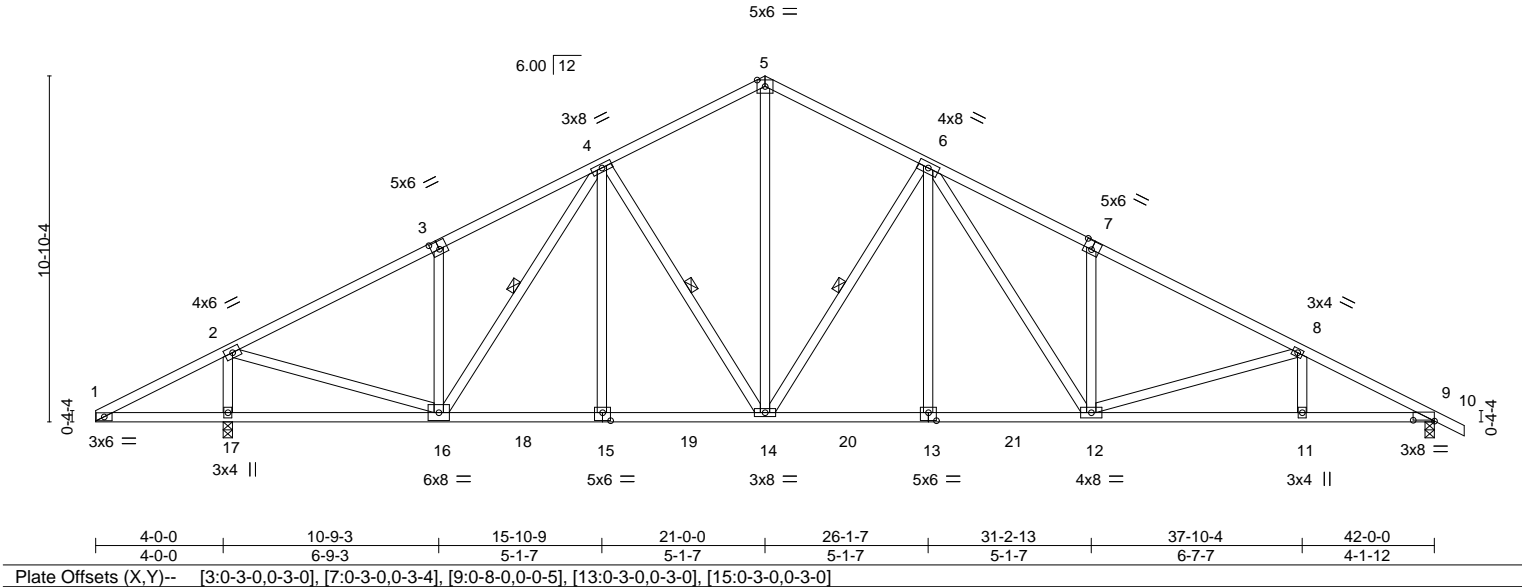
8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Oct 6 12:34:26 2023 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyrxGa-aSKSrcvU1XdIKE4p1e4zOwjAlEq9FTRq8Nf2lwyW7vR

4-1-12 5-7-12 10-9-3 15-10-9 21-0-0 26-1-7 31-2-13 36-4-4 37-10-4 42-0-0 42-11-4

4-1-12 1-6-0 5-1-7 5-1-7 5-1-7 5-1-7 5-1-7 5-1-7 1-6-0 4-1-12 0-11-4

Scale = 1:72.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.15 12-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.30 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	-0.10 17	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S	Wind(LL)	0.13 12	>999	240	Weight: 267 lb	FT = 5%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 or 2x4 SPF Stud	WEBS 1 Row at midpt 4-16, 4-14, 6-14

REACTIONS. (size) 9=0-3-8, 17=0-3-8
Max Horz 9=195(LC 15)
Max Uplift 9=231(LC 11), 17=241(LC 10)
Max Grav 9=1556(LC 1), 17=1857(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-51/286, 2-3=-1733/221, 3-4=-1716/347, 4-5=-1566/310, 5-6=-1566/290,
6-7=-2449/474, 7-8=-2464/348, 8-9=-2955/401
BOT CHORD 15-16=-67/1547, 14-15=-67/1547, 13-14=-193/1769, 12-13=-193/1769, 11-12=-493/2574,
9-11=-493/2574
WEBS 2-16=-101/1724, 3-16=-354/224, 4-14=-417/200, 5-14=-166/1104, 6-14=-783/253,
6-12=-245/762, 7-12=-368/226, 8-12=-482/173, 2-17=-1718/309, 4-15=0/268,
6-13=0/265

- NOTES-** (6-8)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=231, 17=241.
 - 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.
 - 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.
 - 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	153690306
ORDERS	SE-20636	COMN	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 16 12:07:34 2022 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyrxGa-OfHlvsXvNai7U_yrCaxNZon7?STExbTjhckUosynHAd

0-11-4	4-1-12	10-9-3	15-10-9	21-0-0	26-1-7	31-2-13	37-10-4	42-0-0
0-11-4	4-1-12	6-7-7	5-1-7	5-1-7	5-1-7	5-1-7	6-7-7	4-1-12

Scale = 1:70.4

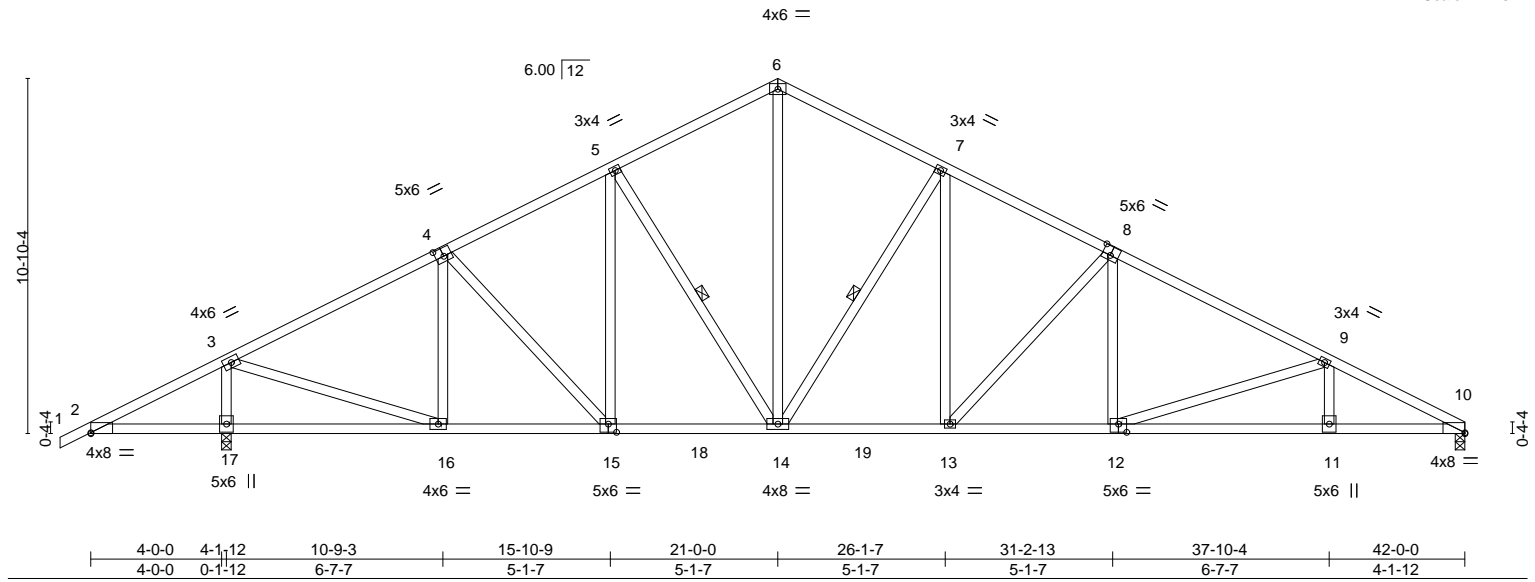


Plate Offsets (X,Y)--		[2:0-0-0,0-0-5], [4:0-3-0,0-3-0], [8:0-3-0,0-3-4], [10:0-0-0,0-0-5], [12:0-3-0,0-3-0], [15:0-3-0,0-3-0]	
LOADING (psf)	SPACING	2-0-0	CSL
TCLL 20.0	Plate Grip DOL 1.15		TC 0.62
TCDL 10.0	Lumber DOL 1.15		BC 0.77
BCLL 0.0 *	Rep Stress Incr YES		WB 0.78
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL) -0.14	13	>999	360
Vert(CT) -0.29	11-12	>999	240
Horz(CT) 0.10	10	n/a	n/a
Wind(LL) 0.12	12-13	>999	240
PLATES	GRIP		
MT20	197/144		
Weight: 261 lb		FT = 5%	

LUMBER-

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

REACTIONS.

(size) 17=0-3-8, 10=0-3-8
Max Horz 17=195(LC 10)
Max Uplift 17=264(LC 10), 10=206(LC 11)
Max Grav 17=1921(LC 1), 10=1483(LC 1)

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

TOP CHORD 2-3=-101/422, 3-4=-1672/205, 4-5=-1711/257, 5-6=-1522/309, 6-7=-1521/289,
7-8=-1976/327, 8-9=-2454/349, 9-10=-2946/410
BOT CHORD 2-17=-308/127, 16-17=-308/205, 15-16=-198/1411, 14-15=-127/1464, 13-14=-45/1700,
12-13=-147/2118, 11-12=-321/2579, 10-11=-321/2579
WEBS 6-14=-164/1005, 7-14=-757/253, 7-13=-86/535, 8-13=-610/198, 8-12=0/363,
9-12=-498/183, 5-14=-374/193, 4-16=-439/116, 3-16=-137/1806, 3-17=-1783/334

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=264, 10=206.
- 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.
- 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.
- 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.



August 17,2022

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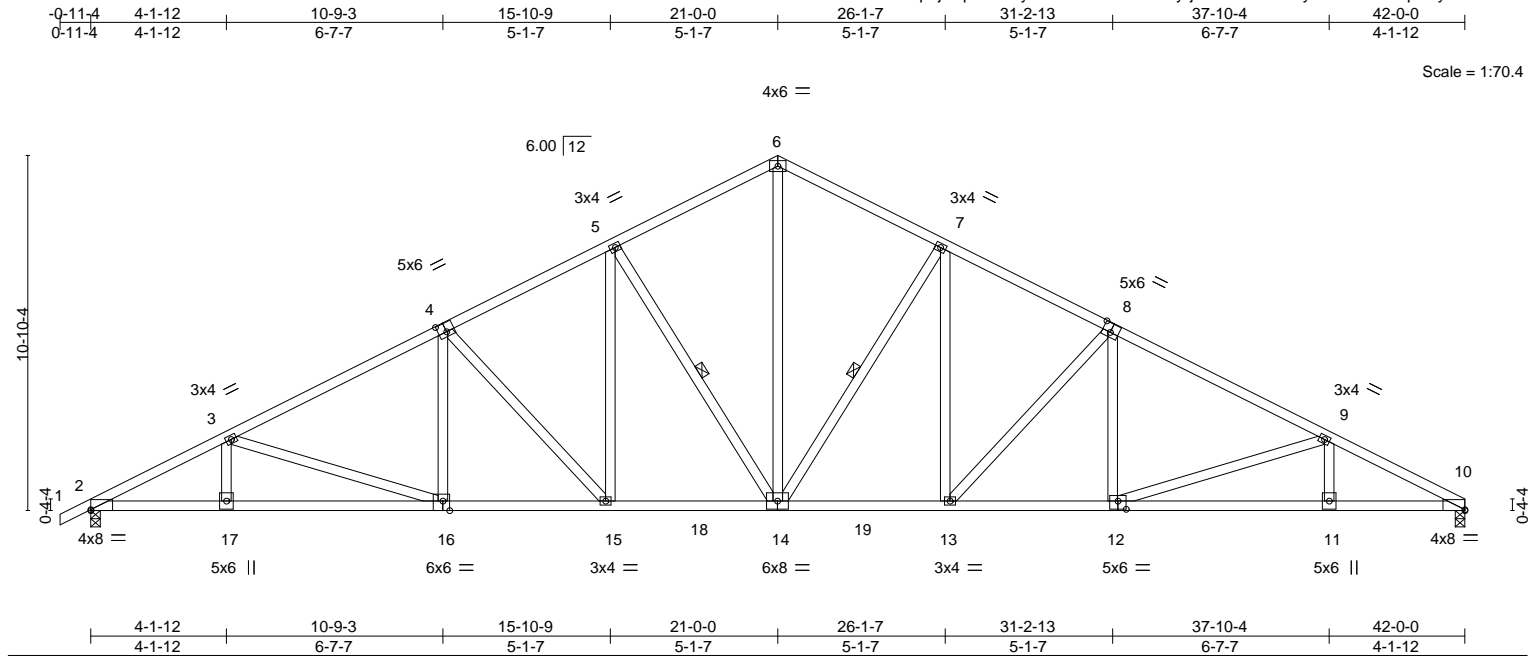
ENGINEERING BY
TRENCO
A MITEK Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-20637	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I53690307
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NVR, Frederick, MD - 21703,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 16 12:07:36 2022 Page 1
ID:5lb56nez?NGp7jN5pS3vTuyrxGa-K1P2KYZAvCyrjH6EJ?zseDsRyG7NPXJ?9wpbsynHAB



LOADING (psf)	SPACING	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.20 13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.42 13-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.18 10 n/a n/a		
	Code IBC2021/TPI2014		Wind(LL) 0.18 15 >999 240		
				Weight: 261 lb	FT = 5%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 or 2x4 SPF Stud	8-2-7 oc bracing: 2-17
	8-2-15 oc bracing: 16-17.
	WEBS 1 Row at midpt 7-14, 5-14
REACTIONS.	
(size) 2=0-3-8, 10=0-3-8	
Max Horz 2=195(LC 14)	
Max Uplift 2=240(LC 10), 10=215(LC 11)	
Max Grav 2=1734(LC 1), 10=1667(LC 1)	

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

TOP CHORD 2-3=-3331/420, 3-4=-2853/367, 4-5=-2380/347, 5-6=-1929/330, 6-7=-1928/329, 7-8=-2382/347, 8-9=-2857/369, 9-10=-3335/429

BOT CHORD 2-17=-510/2907, 16-17=-510/2907, 15-16=-343/2472, 14-15=-209/2061, 13-14=-94/2063, 12-13=-165/2478, 11-12=-338/2922, 10-11=-338/2922

WEBS 6-14=-182/1364, 7-14=-754/252, 7-13=-86/533, 8-13=-608/198, 8-12=0/360, 9-12=-487/182, 5-14=-752/251, 5-15=-86/533, 4-15=-605/197, 4-16=0/359, 3-16=-475/175

- NOTES-** (6-8)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=240, 10=215.
 - 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.
 - 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.
 - 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.



August 17,2022

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

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

ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-20638	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I53690308
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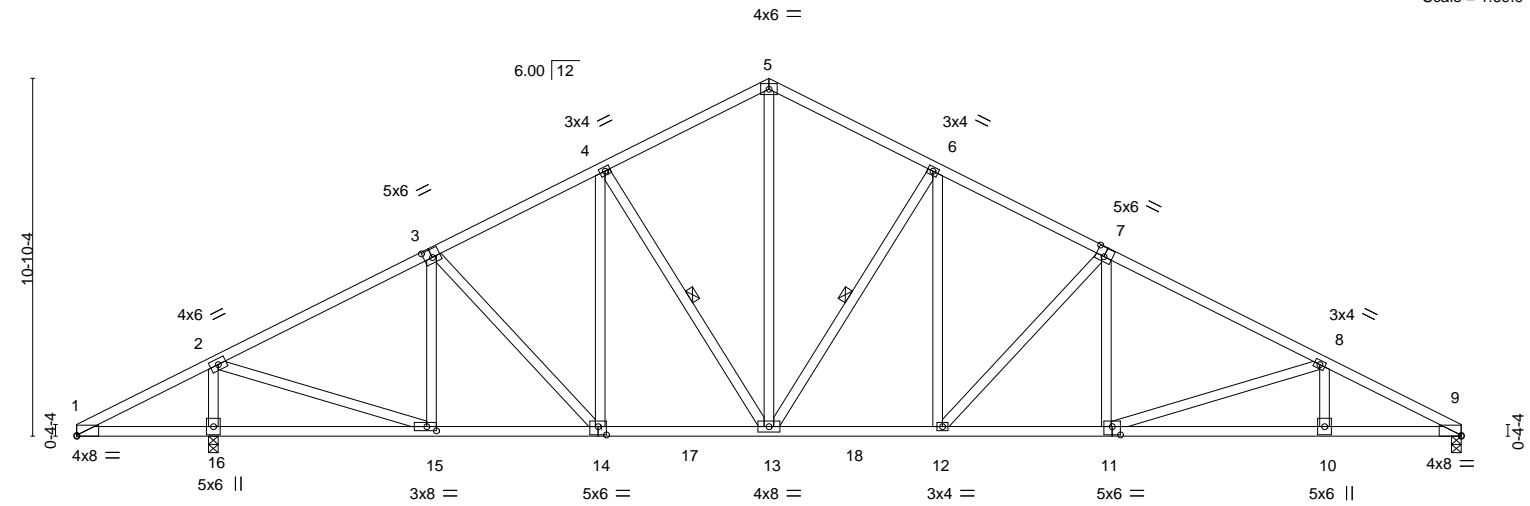
NVR, Frederick, MD - 21703,

8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 16 12:07:37 2022 Page 1

ID:5lb56nez?NGp7jN5pS3vTuyrxGa-oEzQXuZogV4iLRhQtIU5BQPeCgUu8zo9OaY8OBynHAa

4-1-12	10-9-3	15-10-9	21-0-0	26-1-7	31-2-13	37-10-4	42-0-0
4-1-12	6-7-7	5-1-7	5-1-7	5-1-7	5-1-7	6-7-7	4-1-12

Scale = 1:69.9



4-0-0		4-1-12		10-9-3		15-10-9		21-0-0		26-1-7		31-2-13		37-10-4		42-0-0	
4-0-0		0-1-12		6-7-7		5-1-7		5-1-7		5-1-7		5-1-7		6-7-7		4-1-12	
Plate Offsets (X,Y)-- [1:0-0-0,0-0-5], [3:0-3-0,0-3-0], [7:0-3-0,0-3-4], [9:0-0-0,0-0-5], [11:0-3-0,0-3-0], [14:0-3-0,0-3-0], [15:0-3-8,0-1-8]																	
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15				TC	0.62	Vert(LL)	-0.14	12	>999	360		MT20	197/144		
TCDL	10.0	Lumber DOL 1.15				BC	0.77	Vert(CT)	-0.30	10-11	>999	240					
BCLL	0.0 *	Rep Stress Incr YES				WB	0.74	Horz(CT)	0.10	9	n/a	n/a					
BCDL	10.0	Code IBC2021/TPI2014				Matrix-S		Wind(LL)	0.12	11-12	>999	240		Weight: 260 lb	FT = 5%		

LUMBER-

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

REACTIONS.

(size) 16=0-3-8, 9=0-3-8
Max Horz 16=181(LC 14)
Max Uplift 16=241(LC 10), 9=207(LC 11)
Max Grav 16=1858(LC 1), 9=1490(LC 1)

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

TOP CHORD 1-2=-51/287, 2-3=-1716/222, 3-4=-1736/264, 4-5=-1537/311, 5-6=-1536/291,
6-7=-1991/329, 7-8=-2469/350, 8-9=-2960/411
BOT CHORD 14-15=-213/1451, 13-14=-136/1487, 12-13=-50/1714, 11-12=-148/2131, 10-11=-322/2592,
9-10=-322/2592
WEBS 5-13=-165/1017, 6-13=-757/253, 6-12=-86/535, 7-12=-610/198, 7-11=0/363,
8-11=-498/183, 4-13=-390/199, 3-15=-412/106, 2-15=-104/1719, 2-16=-1719/311

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=241, 9=207.
- 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.
- 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.
- 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.



August 17,2022

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast
ORDERS	SE-20645	COMN	1	1	I53690310

NVR, X

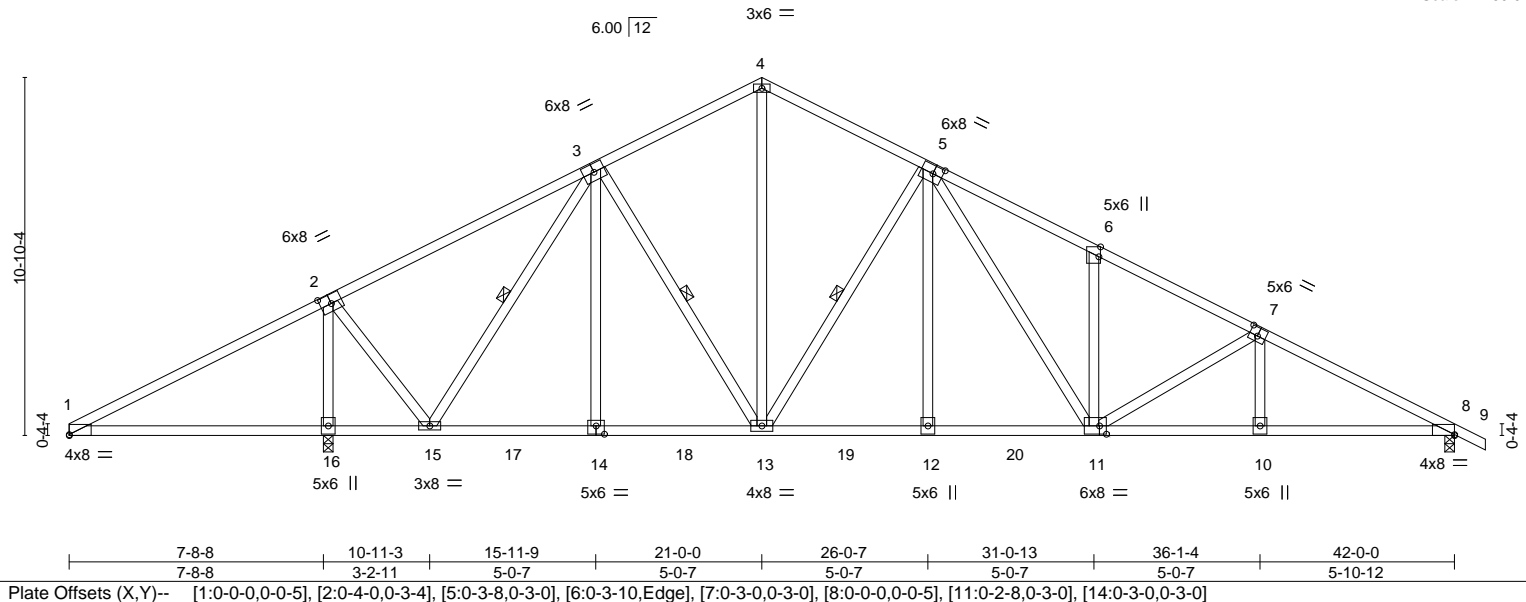
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8.530 s Mar 11 2022 MiTek Industries, Inc. Tue Aug 16 17:22:57 2022 Page 1

Job Reference (optional)

5-10-12	10-11-3	15-11-9	21-0-0	26-0-7	31-0-13	36-1-4	42-0-0	42-11-4
5-10-12	5-0-7	5-0-7	5-0-7	5-0-7	5-0-7	5-0-7	5-10-12	0-11-4

Scale = 1:69.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.11 11-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.22 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S	Wind(LL)	0.10 11	>999	240	Weight: 259 lb	FT = 5%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
1-2,2-3: 2x4 SP No.2D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	6-0-0 oc bracing: 1-16,15-16.
WEBS 2x4 SP No.3 or 2x4 SPF Stud	WEBS 1 Row at midpt 3-15, 3-13, 5-13

REACTIONS. (size) 8=0-3-8, 16=0-3-8
Max Horz 16=-195(LC 15)
Max Uplift 8=-221(LC 11), 16=-267(LC 10)
Max Grav 8=1353(LC 1), 16=2060(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-112/667, 2-3=-512/176, 3-4=-1139/291, 4-5=-1132/270, 5-6=-1975/439,
6-7=-1981/334, 7-8=-2427/364
BOT CHORD 1-16=-482/151, 15-16=-471/216, 15-17=-51/986, 14-17=-51/986, 14-18=-50/989,
13-18=-50/989, 13-19=0/1375, 12-19=0/1375, 12-20=0/1375, 11-20=0/1375,
10-11=-238/2088, 8-10=-238/2088
WEBS 3-15=-1097/70, 4-13=-157/739, 5-13=-791/256, 5-11=-232/722, 6-11=-282/175,
7-11=-462/161, 3-14=0/277, 5-12=0/270, 2-16=-1875/338, 2-15=-35/1233

- NOTES-** (6-8)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 8 and 267 lb uplift at joint 16.
 - 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.
 - 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.
 - 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

August 17,2022

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

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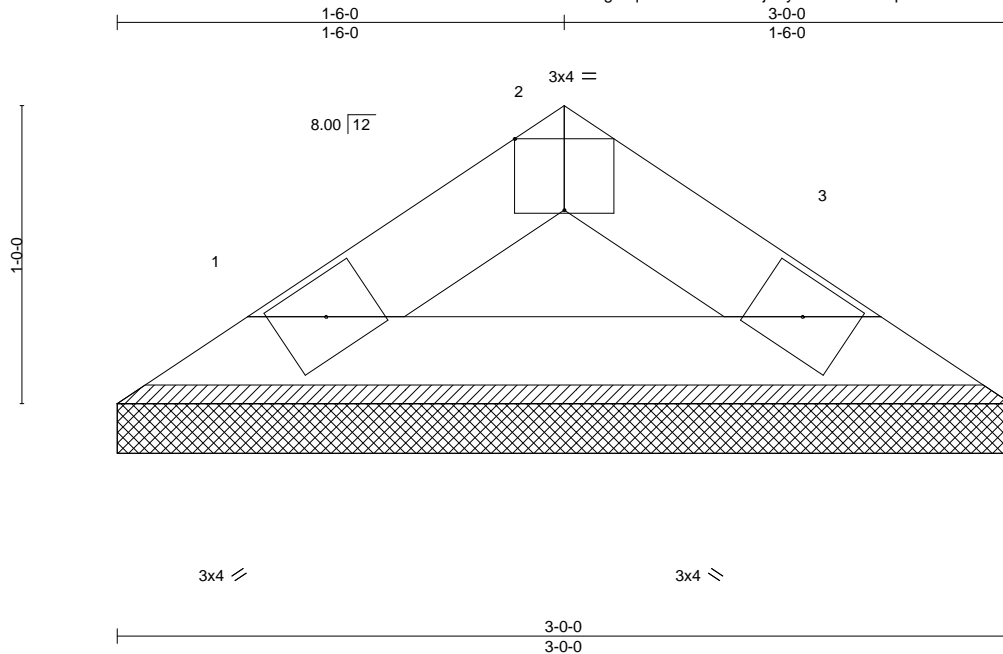
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss VT-00861	Truss Type VCOM	Qty 1	Ply 1	02_Valley	I54705066
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NVR, Frederick, MD - 21703,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:37 2022 Page 1
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Scale = 1:7.7

Plate Offsets (X,Y)-- [2:0-2-0,Edge]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL 30.0		Plate Grip DOL	1.15	TC 0.08		Vert(LL)	n/a - n/a 999
(Roof Snow=30.0)		Lumber DOL	1.15	BC 0.08		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			
BCDL 10.0							
						PLATES	GRIP
						MT20	197/144
						Weight: 8 lb	FT = 5%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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)

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

NOTES- (7)

- 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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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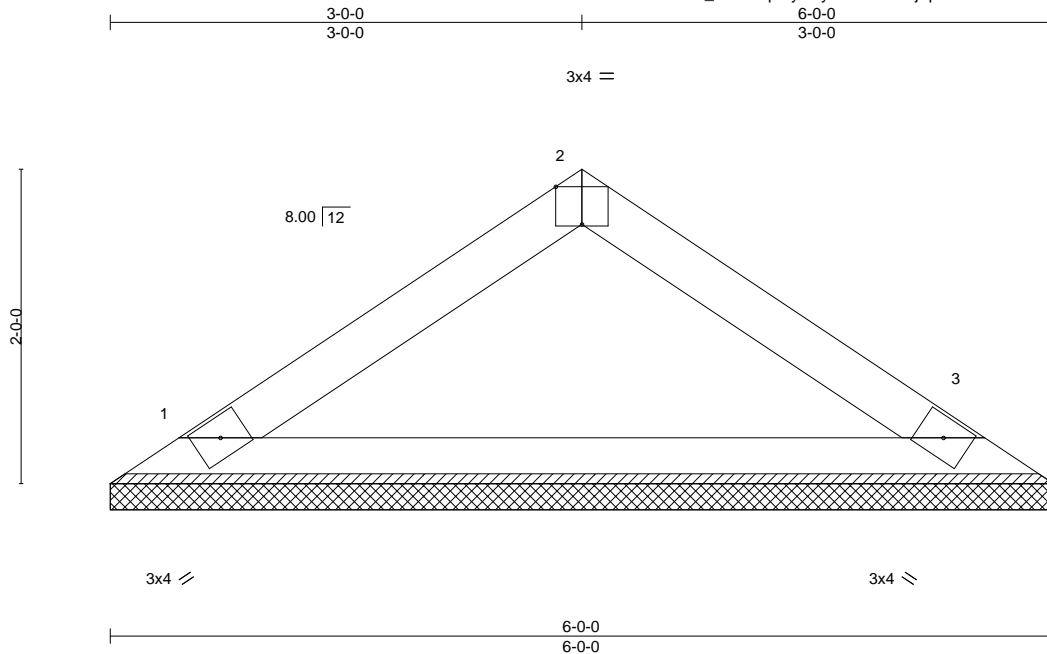
818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss VT-00862	Truss Type VCOM	Qty 1	Ply 1	02_Valley	154705067
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NVR, Frederick, MD - 21703,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:38 2022 Page 1

ID:D6E1UAMWWxU_8Gv8MpMysOyUXxm-LVatjFp8s4tHdH7X2cb9ihYkpqYnJNiFYVWwdyTqEJ



Scale = 1:14.7

Plate Offsets (X,Y)-- [2:0-2:0,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL 30.0		Plate Grip DOL	1.15	TC 0.41		Vert(LL)	n/a	n/a	999
(Roof Snow=30.0)		Lumber DOL	1.15	BC 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
BCLL 0.0		Code IBC2021/TPI2014		Matrix-P					
BCDL 10.0									
								Weight: 18 lb	
								FT = 5%	

LUMBER-

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

BRACING-

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

REACTIONS.

(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- (7)

- 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

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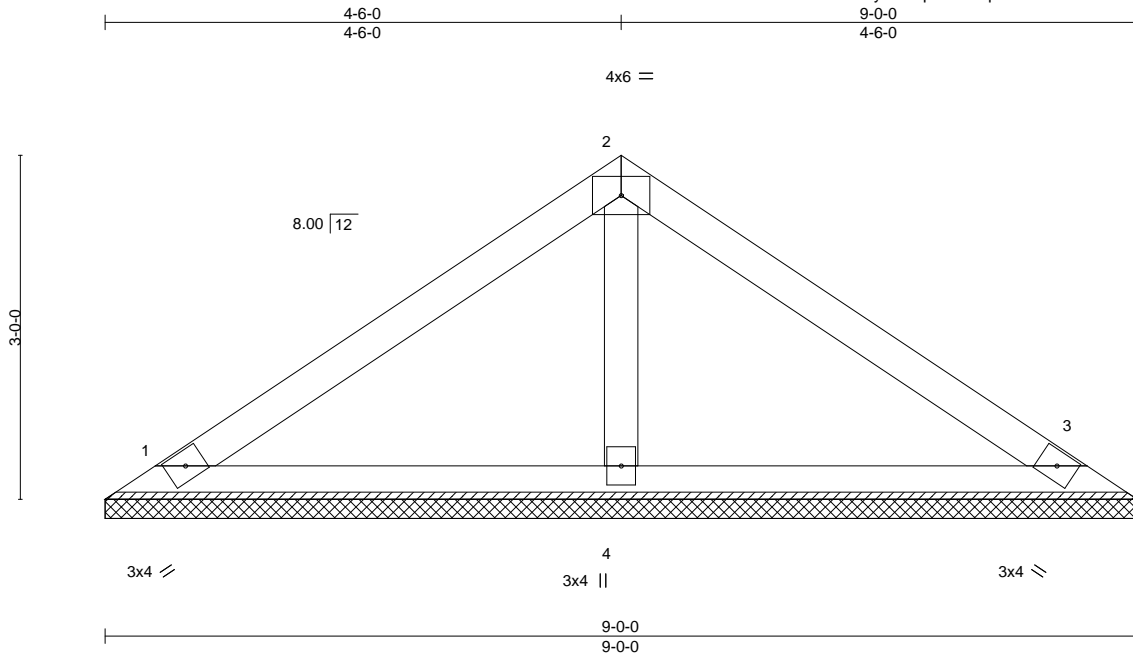
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley	154705068
ORDERS	VT-00863	VCOM	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:39 2022 Page 1
ID:hJoPiVN8HEcmQUKwWtBOcyUXxl-ph8FwbqmdO?8rsrK5I7rhWEfiDE1WlarUCF3T3yTqEI



Scale = 1:20.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S						Weight: 31 lb	FT = 5%

LUMBER-

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

BRACING-

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

REACTIONS.

(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- (7)

- 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.



October 13, 2022

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

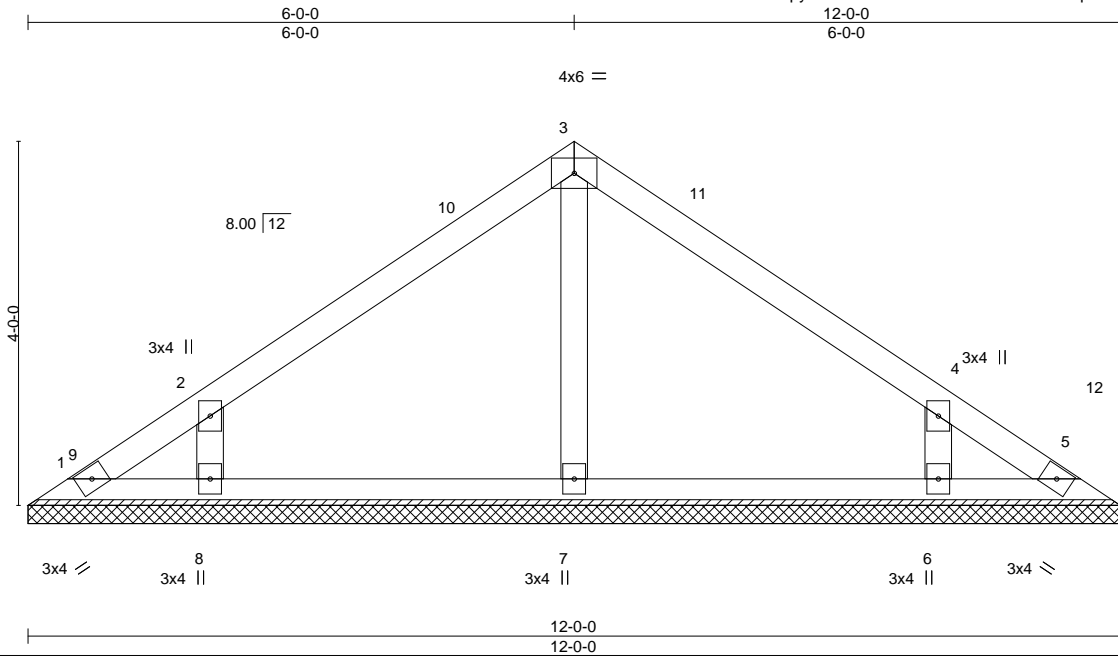
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley	154705069
ORDERS	VT-00864	VCOM	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

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



Scale = 1:25.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	5	n/a	n/a		
BCLL 0.0	Code IBC2021/TPI2014		Matrix-S						Weight: 45 lb	FT = 5%
BCDL 10.0										

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 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- (7)

- 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.



October 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

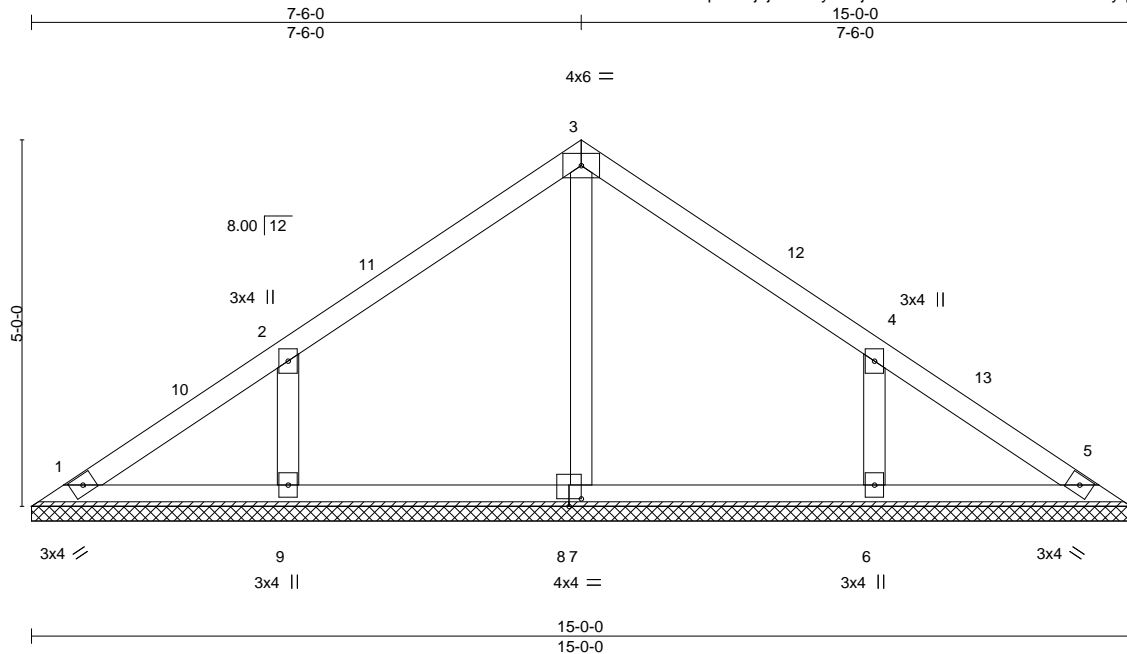
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley	154705070
ORDERS	VT-00865	VCOM	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:41 2022 Page 1
ID:dhwA6BPOpssY?jdj1xvfT1yUXxj-l4F?LHs19?Fs4A?iCA9JnLJ?D1yq_fD8xWkAXyyTqEG



Scale = 1:31.4

Plate Offsets (X,Y)-- [8:0-2-0,0-1-4]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	
TCLL 30.0		Plate Grip DOL	1.15	TC 0.65	in (loc)	l/defl	L/d
(Roof Snow=30.0)		Lumber DOL	1.15	BC 0.19	n/a -	n/a	999
TCDL 10.0		Rep Stress Incr	YES	WB 0.12	Vert(LL)	n/a	999
BCLL 0.0		Code IBC2021/TPI2014		Matrix-S	Vert(CT)	n/a	999
BCDL 10.0					Horz(CT)	0.00 5	n/a
						PLATES	GRIP
						MT20	197/144
						Weight: 59 lb	FT = 5%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 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

NOTES-

- 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 DOL=1.60
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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=230.



October 13, 2022

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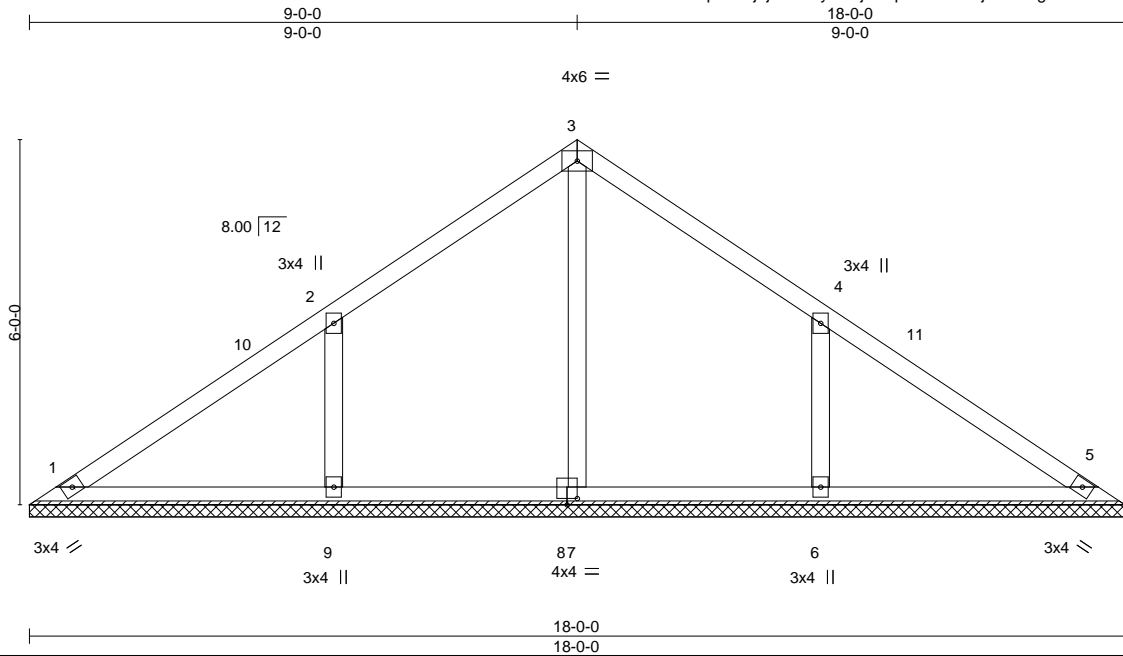
ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss VT-00866	Truss Type VCOM	Qty 1	Ply 1	02_Valley	154705071
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NVR, Frederick, MD - 21703,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:42 2022 Page 1
ID:dhwA6BPOpssY?jdj1xvfT1yUXxj-DGpNZdsfwJNjiKaumtgYJYs8ERGIj5tHAATk4OyTqEF



Scale = 1:37.9

Plate Offsets (X,Y)-- [8:0-2-0,0-1-4]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	
TCLL 30.0		Plate Grip DOL	1.15	TC 0.82	in (loc)	l/defl	L/d
(Roof Snow=30.0)		Lumber DOL	1.15	BC 0.28	n/a -	n/a	999
TCDL 10.0		Rep Stress Incr	YES	WB 0.16	Vert(LL)	n/a	999
BCLL 0.0		Code IBC2021/TPI2014		Matrix-S	Vert(CT)	n/a	999
BCDL 10.0					Horz(CT)	0.00 5	n/a
						PLATES	GRIP
						MT20	197/144
						Weight: 74 lb	FT = 5%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 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

NOTES-

- 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 DOL=1.60
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.



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