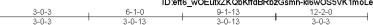


 Job
 Truss
 Truss Type
 Qty
 Ply
 11\_Southeast-Girder-Int

 ORDERS
 SE-19086
 COMN
 1
 2
 Job Reference (optional)

NVR, Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:59 2021 Page 1 ID:efl6\_w0EutxZKQbKffdBRbzGsmn-ki6w0S5VK1moLek5WCBD3xUCYNchyAlmTRCEn1yAZgs



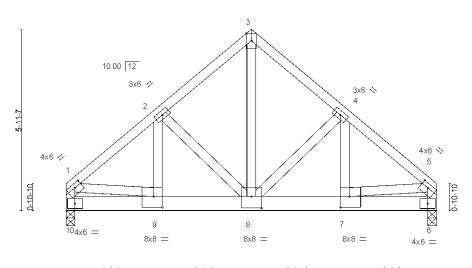
4x6 ||

Scale = 1:37.8

Structural wood sheathing directly applied or 5-9-6 oc purlins,

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

except end verticals.



| 3-0-3 | 6-1-0 | 9-1-13 | 12-3-0-3 | 3-0-13 | 3-0-13 | 3-0-13 | 3-1 | Plate Offsets (X,Y)-- [1:0-2-12,0-1-8], [5:0-2-12,0-1-8], [7:0-3-8,0-4-4], [8:0-4-0,0-4-8], [9:0-3-8,0-4-4]

	(.,) [,, [,, [,]											
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP								
TCLL	20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.04 8-9 >999 360 MT20 197/144								
TCDL	10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.07 7-8 >999 240								
BCLL	0.0 *	Rep Stress Incr NO	WB 0.89	Horz(CT) 0.01 6 n/a n/a								
BCDL	10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.02 8-9 >999 240 Weight: 177 lb FT = 5%								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x6 SP No.2

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

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8 Max Horz 10=-101(LC 6)

Max Uplift 10=-185(LC 8), 6=-185(LC 9) Max Grav 10=4748(LC 15), 6=4748(LC 16)

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

TOP CHORD 1-2=-4704/203, 2-3=-3503/197, 3-4=-3503/197, 4-5=-4703/203, 1-10=-3667/154,

5-6=-3667/154

BOT CHORD 9-10=118/768, 8-9=-163/3617, 7-8=-127/3563, 6-7=-37/696

WEBS 2-9=-50/1531, 3-8=-199/4221, 4-7=-51/1531, 2-8=-1274/118, 4-8=-1275/118,

1-9=-96/2931, 5-7=-98/2934

## **NOTES-** (10-12)

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 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) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=185, 6=185.
- 9) Girder carries tie-in span(s): 37-8-8 from 0-0-0 to 12-2-0
- 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.

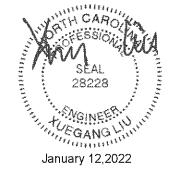
# Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 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 design 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, rection and bracing of trusses and truss systems, see

ANSITPI1 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 11\_Southeast-Girder-Int 149194904 SE-19086 ORDERS COMN 2 Job Reference (optional)

NVR. Frederick, MD - 21703, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:59 2021 Page 2 ID:efl6\_wOEutxZKQbKffdBRbzGsmn-ki6wOS5VK1moLek5WCBD3xUCYNchyAlmTRCEn1yAZgs

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 6-10=-728(B=-708), 1-3=-60, 3-5=-60

Job Truss Truss Type Qty 10\_Southeast Ply <sub>SE-19090-</sub> Cond1 149194898 COMN ORDERS 1 Job Reference (optional)

5x6 =

Frederick MD - 21703 NVR.

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:17 2021 Page 1

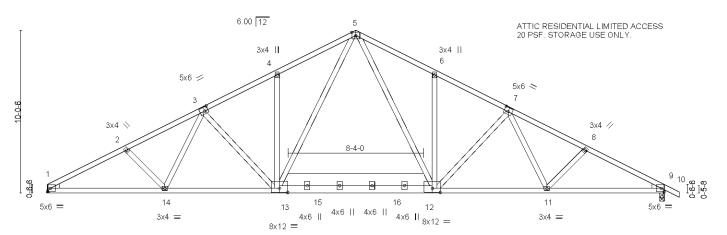
ID:mk?hxeLZaKrWFFdGJp3xq8yhica-zda1a5a9D7UIJBW03NQMM5k60REK6G5apv10JTyAZhW 4-10-9 33-1-7 14-3-8 19-0-0 38-0-0 28-4-15 4-10-9 4-8-8 4-8-8 4-8-8

Scale = 1.71.0

Structural wood sheathing directly applied or 2-11-9 oc purlins.

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

8-10-12 oc bracing: 1-14.



		7-2-15	9-7-1	14-5-0 147	14-0 19-0-0	23-2-0	29-070	20-4-10	1 20-8-2	30-0-0	
	,	7-2-13	2-4-4	4-8-8 0 <u>-</u>	6-8 4-2-0	4-2-0	0-6-8	4-8-8	2-4-4	7-2-13	1
Plate Offse	ets (X,Y)	[3:0-2-8,0-3-0], [7:0-3-0,0	)-3-0], [12:0-	3-0,0-3-0], [13	:0-6-0,0-3-0]						
LOADING	(m = 10	SPACING-	200	001		DEEL		(la.a)	1.74	DIATEO	CDID
LOADING	VI /		2-0-0	CSI.		DEFL.		(loc) l/defl	L∕d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.15	13 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.32 13	3-14 >999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.12	9 n/a	n/a		
BCDL	10.0	Code IBC2021/TF	PI2014	Matri	x-S	Wind(LL)	0.13	13 >999	240	Weight: 264 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 \*Except\*

12-13: 2x10 SP No.2, 12-13: 2x6 SP 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) 1=Mechanical, 9=0-3-8

Max Horz 1=-175(LC 11)

Max Uplift 1=-195(LC 10), 9=-218(LC 11) Max Grav 1=1511(LC 1), 9=1577(LC 1)

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

TOP CHORD 1-2=-2796/378, 2-3=-2628/359, 3-4=-2244/315, 4-5=-2232/413, 5-6=-2226/398,

6-7=-2238/300, 7-8=-2596/352, 8-9=-2769/368

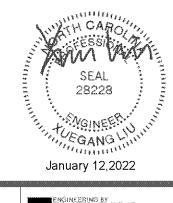
1-14-433/2408, 13-14-318/2234, 12-13-72/1537, 11-12-138/2218, 9-11-251/2360 BOT CHORD

**WEBS** 5-13=246/924, 5-12=-237/913, 4-13=-291/185, 6-12=-290/184, 3-13=-393/169,

7-12=380/176

### 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=195, 9=218,
- 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]

🛦 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 MiTel® 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

ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Job Truss Truss Type 10\_Southeast Ply <sub>SE-19090-</sub> Cond2 149194898 COMN ORDERS 1 Job Reference (optional) Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:17 2021 Page 1 NVR. ID:mk?hxeLZaKrWFFdGJp3xq8yhica-zda1a5a9D7UIJBW03NQMM5k9zRKi6Jdapv10JTyAZhW 4-10-9 28-4-15 14<sub>1</sub>10-0 0-6-8 19-0-0 23-2-0 4-2-0 33-1-7 38-0-0 38-11-4 0-11-4 4-10-9 4-8-8 4-8-8 4-8-8 Scale = 1:72.1 5x6 = 6.00 12 5 ATTIC RESIDENTIAL LIMITED ACCESS 3x4 II 3x4 || 20 PSF. STORAGE USE ONLY 6 5x6 / 5x6 🗢 3×4 N 3x4 //

19-0-0 28-4-15 30-9-3 38-0-C 4-2-0 4-8-8 2-4-4 Plate Offsets (X,Y)--[3:0-2-8,0-3-0], [7:0-3-0,0-3-0], [12:0-6-0,0-3-0], [13:0-6-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. Ľd **PLATES** GRIP in (loc) I/defl Plate Grip DOL 20.0 1.15 TC 0.31 Vert(LL) 0.01 10 120 197/144 n/r MT20

0

4x6 ||

16

TOP CHORD

BOT CHORD

**WEBS** 

12

4x6 | 8x12 =

4x6 ||

15

13

8x12 = 4x6 | |

TCLL TCDL 10.0 Lumber DOL 1.15 ВС 0.45 0.03 10 n/r 120 Vert(CT) WR. BCLL 0.0 Rep Stress Incr YES 0.33 Horz(CT) 0.01 9 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Weight: 264 lb FT = 5% LUMBER-**BRACING-**[MCT]

TOP CHORD

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

12-13: 2x10 SP No.2, 12-13: 2x6 SP 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. All bearings 38-0-0.

5x6 =

(lb) - Max Horz 1=-175(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11 except 13=-169(LC 10),

12=-151(LC 11), 14=-108(LC 10)

14

3x4 =

Max Grav All reactions 250 lb or less at joint(s) 1 except 13=660(LC 1), 12=661(LC

1), 9=304(LC 24), 14=621(LC 23), 11=615(LC 24)

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

WEBS 4-13=300/186, 6-12=-299/186, 2-14=-302/187, 3-14=-264/68, 8-11=-296/179,

7-11=264/44

#### 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) 1, 9, 11 except (jt=lb) 13=169, 12=151, 14=108.
- 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.

🛦 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 MiTel® 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

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



Edenton, NC 27932

910

5x6 =

3x4 =

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

5-13, 5-12

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

1 Row at midpt

NVR. Frederick, MD - 21703

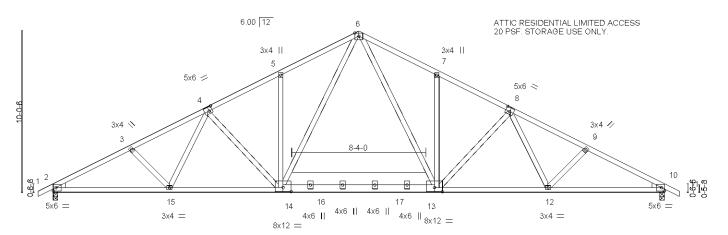
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:20 2021 Page 1 ID:mk?hxeLZaKrWFFdGJp3xq8yhica-NCGAC7d1V2sKAeFbkV\_3zjMezeGYJcv0VtFgwoyAZhT

5x6 =

Scale = 1:71.6

Structural wood sheathing directly applied or 3-1-14 oc purlins.

Rigid ceiling directly applied or 9-0-6 oc bracing.



		7-2-13	2-4-4	4-8-8 0-6		4-2-0	0-6-8	4-8-8	2-4-4	7-2-13	
Plate Offse	ts (X,Y)	[4:0-2-8,0-3-0], [8:0-3-0,0	)-3-0], [13:0-	6-0,0-3-0], [14:0	-6-0,0-3-0]					T	
LOADING	VI /	SPACING-	2-0-0	CSI.		DEFL.		(loc) I/de		PLATES	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		0.39 0.76	Vert(LL) Vert(CT)	-0.15 -0.32 1	14 >99! 2-13 >99!		MT20	197/144
BCLL	0.0 *	Rep Stress Incr	YES		0.55	Horz(CT)	0.12	10 n/			
BCDL	10.0	Code IBC2021/TF	PI2014	Matrix-	S	Wind(LL)	0.13	14 >99	9 240	Weight: 265 lb	FT = 5%

**BRACING-**

TOP CHORD

BOT CHORD

14-10-0

19-0-0

LUMBER-

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

13-14: 2x10 SP No.2, 13-14: 2x6 SP 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, 10=0-3-8

Max Horz 2=-171(LC 11)

Max Uplift 2=-218(LC 10), 10=-218(LC 11) Max Grav 2=1573(LC 1), 10=1573(LC 1)

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

TOP CHORD 2-3=-2761/367, 3-4=-2587/351, 4-5=-2229/312, 5-6=-2217/410, 6-7=-2217/397,

7-8=-2229/299, 8-9=-2587/352, 9-10=-2761/367

BOT CHORD 2-15=-421/2353, 14-15=-314/2210, 13-14=-71/1528, 12-13=-138/2210, 10-12=-250/2353

WEBS 6-14=-243/913, 6-13=-237/913, 5-14=-290/184, 7-13=-290/184, 4-14=-380/168,

8-13=380/176

## 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=218, 10=218.
- 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.



[MCT]

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7478 rev. 5/19/20/20 BEFORE USE.

Design valid for use only with MiTeM® 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



Job Truss Truss Type Qty 10\_Southeast Ply <sub>SE-19091-</sub> Cond2 149194899 COMN ORDERS 1 Job Reference (optional) Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:20 2021 Page 1 M/R  $ID:mk?hxeLZaKrWFFdGJp3xq8yhica-NCGAC7d1V2sKAeFbkV\_3zjMgOeLZJfN0VtFgwoyAZhTM0VtFgwoyAXhTM0VtFgwoyAThW0VtFgwoyAXhTM0VtFgwoyAThW0\tfgwoyAXhTM0VtFgwoyAThW0\tfgwoyAThW0\tfgwoyAT$ 33-1-7 4-10-9 14-3-8 19-0-0 23-8-8 0-6-8 28-4-15 38-11-4 0-11-4 38-0-0 4-8-8 4-8-8 4-8-8 Scale = 1:72.8 5x6 = 6.00 12 6 ATTIC RESIDENTIAL LIMITED ACCESS 20 PSF. STORAGE USE ONLY 3x4 || 3x4 II 5 5x6 = 5x6 < 3x4 N 3x4 // 10 1169 169 5x6 = 5x6 = 4x6 | 4x6 || 15 14 16 17 13 12 3x4 = 8x12 = 8x12 =3x4 =4x6 || 4x6 || 14-3-8 19-0-0 30 - 9 - 338-0-0 4-8-8 4-2-0 7-2-13 2-4-4 Plate Offsets (X,Y)--[4:0-2-8,0-3-0], [8:0-3-0,0-3-0], [13:0-6-0,0-3-0], [14:0-6-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. Ľd **PLATES** GRIP in (loc) I/defl TCLL 20.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) 0.01 120 197/144 11 n/r MT20 ВĊ TCDL 10.0 Lumber DOL 1.15 0.44 0.03 11 n/r 120 Vert(CT) WR. BCLL 0.0 Rep Stress Incr YES 0.33 Horz(CT) 0.01 10 n/a n/a Code IBC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 265 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 6-0-0 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. **WEBS** 1 Row at midpt 6-14, 6-13

13-14: 2x10 SP No.2, 13-14: 2x6 SP 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. All bearings 38-0-0.

(lb) - Max Horz 2=-171(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 12 except 14=-170(LC 10),

13=-151(LC 11), 15=-105(LC 10)

Max Grav All reactions 250 lb or less at joint(s) except 2=304(LC 23), 14=661(LC 1),

13=661(LC 1), 10=304(LC 24), 15=615(LC 23), 12=615(LC 24)

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

5-14=299/186, 7-13=-299/186, 3-15=-296/182, 4-15=-264/68, 9-12=-296/179,

8-12=264/44

#### 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) 2, 10, 12 except (jt=lb) 14=170, 13=151, 15=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.
- 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
 Truss
 Truss Type
 Qty
 Ply
 10\_Southeast

 ORDERS
 SE-19092
 MONO
 1
 1

 Job Reference (optional)

NVR. Frederick. MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:21 2021 Page 1 ID:mk?hxeLZaKrWFFdGJp3xq8yhica-rOpYPTdfGL\_BnoqnIDVIWwvuE2mJ2BnAkX?ESEyAZhS

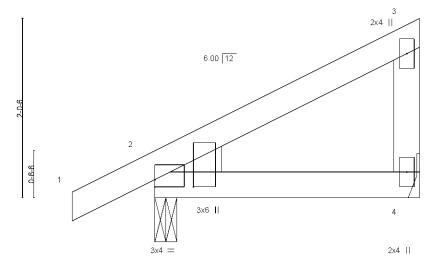
Structural wood sheathing directly applied or 3-0-0 oc purlins,

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

except end verticals.



Scale = 1:13.0



%_∩_∩
5 0
3-0-0

Plate Off	Plate Offsets (X,Y)- [2:0-0-0,0-1-0], [2:0-0-15,0-5-4]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.10	Vert(LL)	-0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IBC2021/TF	PI2014	Matri	ĸ-P	Wind(LL)	0.00	2	****	240	Weight: 14 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

REACTIONS.

(size) 2=0-3-0, 4=Mechanical

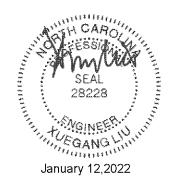
Max Horz 2=74(LC 10)

Max Uplift 2=-30(LC 10), 4=-36(LC 10) Max Grav 2=185(LC 1), 4=97(LC 1)

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

## NOTES- (6-8)

- 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- rovide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



WARRING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7473 rev. 5/19/20/20 BEFORE USE.

Design valid for use only with MiTTeMD 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 
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Qty Job Truss Type 10\_Southeast Ply <sub>SE-19093-</sub> Cond1 149194901 COMN ORDERS Job Reference (optional) Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:24 2021 Page 1 M/R ID:mk?hxeLZaKrWFFdGJp3xq8yhica-FzVh2UgYZGMleFZMzL2?8ZXGxGd1FRZcQVDu3ZyAZhP 19-0-0 31-6-10 38-0-0 6-3-5 Scale = 1:65.8 5x6 = 5 6.00 12 3x4 🖊 3x4 < 6 10-0-6 5x6 / 5x7 > 3x4 = 2 Š 15 16 4x6 =14 13 12 11 10 3x4 || 3x4 || 5x6 = 3x8 = 5x6 =12-8-11 19-0-0 38-0-0 6-3-5 6-3-5 6-5-6 Plate Offsets (X,Y)--[1:0-1-1,0-2-0], [3:0-3-0,0-3-4], [7:0-3-8,0-3-4], [11:0-3-0,0-3-0], [13:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) Ľd **PLATES** GRIP in I/defl Plate Grip DOL TC BC TCLL 20.0 1.15 0.65 Vert(LL) -0.15 12-13 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 0.79 -0.33 12-13 >999 240 Vert(CT) WB 0.51 BCLL 0.0 Rep Stress Incr YES Horz(CT) 0.14 R n/a n/a Code IBC2021/TPI2014 BCDL 10.0 Matrix-S Wind(LL) 0.12 12-13 >999 240 Weight: 216 lb FT = 5% LUMBER-**BRACING-**[MCT] TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-7-7 oc purlins. BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 9-5-11 oc bracing. WEBS 2x4 SP No.3 or 2x4 SPF Stud **WEBS** 1 Row at midpt 6-12, 4-12 WEDGE

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

Left 2x4 SP or SPF No.3 or Stud 3-5-3 SLIDER

REACTIONS.

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

Max Horz 1=-175(LC 15)

Max Uplift 1=-195(LC 10), 8=-218(LC 11) Max Grav 1=1511(LC 1), 8=1577(LC 1)

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

TOP CHORD 1-3=-2761/347, 3-4=-2288/314, 4-5=-1754/293, 5-6=-1752/294, 6-7=-2279/311,

7-8=-2786/344

1-14=386/2373, 13-14=385/2375, 12-13=-231/1974, 11-12=-85/1963, 10-11=-213/2376, BOT CHORD

8-10=214/2374

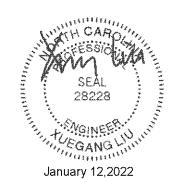
WEBS 5-12-130/1145, 6-12-708/244, 6-11-9/416, 7-11-487/178, 7-10-0/273,

4-12-723/248, 4-13-9/413, 3-13-472/175, 3-14-0/260

#### 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 100 lb uplift at joint(s) except (jt=lb) 1=195, 8=218,
- 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.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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Job Truss Truss Type Qty 10\_Southeast Ply <sub>SE-19093-</sub> Cond2 149194901 COMN ORDERS Job Reference (optional) Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:24 2021 Page 1 M/R ID:mk?hxeLZaKrWFFdGJp3xq8yhica-FzVh2UgYZGMleFZMzL2?8ZXIyGksFUBcQVDu3ZyAZhP 31-6-10 38-0-0 19-0-0 38-11-4 0-11-4 6-3-5 6-5-6 Scale = 1:67.5 5x6 =5 6.00 12 3x4 / 3x4 < 6 5x6 / 5x7 > 3×4 -3x4 🕏 0-6-6 [-9-4x6 = 5x6 = 14 13 15 12 16 11 10 3x4 II 5x6 = 3x8 = 5x6 = 3x4 || 12-8-11 19-0-0 31-6-10 38-0-0 6-5-6 6-3-5 [1:0-1-1,0-2-0], [3:0-3-0,0-3-4], [7:0-3-8,0-3-4], [11:0-3-0,0-3-0], [13:0-3-0,0-3-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. Ľd **PLATES** GRIP in (loc) I/defl TC BC TCLL 20.0 Plate Grip DOL 1.15 0.52 Vert(LL) 0.03 120 197/144 9 n/r MT20 TCDL 10.0 Lumber DOL 1.15 0.35 0.05 9 n/r 120 Vert(CT) WB 0.28 BCLL 0.0 Rep Stress Incr YES Horz(CT) 0.01 8 n/a n/a Code IBC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 216 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 6-0-0 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. 2x4 SP No.3 or 2x4 SPF Stud WEBS **WEBS** 1 Row at midpt 5-12, 6-12, 4-12 WEDGE Right: 2x4 SP or SPF No.3 or Stud Left 2x4 SP or SPF No.3 or Stud 3-5-3 All bearings 38-0-0.

SLIDER

REACTIONS.

(lb) - Max Horz 1=-175(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 11, 10, 14, 8 except

13=-103(LC 10)

Max Grav All reactions 250 lb or less at joint(s) except 1=318(LC 23), 12=617(LC 1), 11=445(LC 26), 10=548(LC 1), 13=466(LC 25), 14=434(LC 23), 8=306(LC 1)

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

TOP CHORD 1-3=-291/157

WEBS 5-12=339/34, 6-11=-308/107, 7-10=-392/151, 4-13=-275/111, 3-14=-288/125

#### 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) 1, 12, 11, 10, 14, 8 except (it=lb) 13=103.
- 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.



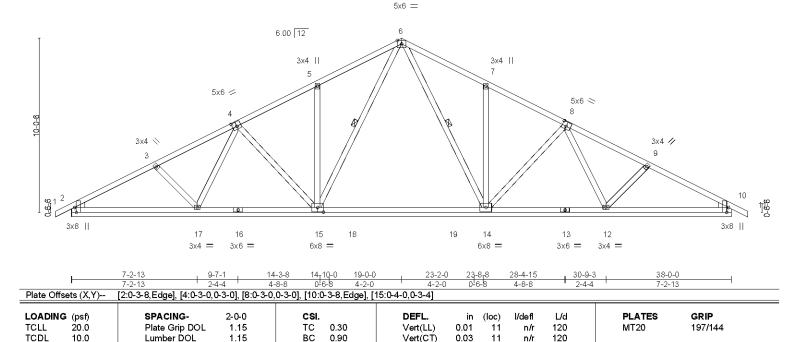
Job Truss Truss Type 10\_Southeast Qty Ply 149194902 ORDERS SE-19094 COMN 1 Job Reference (optional)

M/R Frederick MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:57:25 2021 Page 1 ID:mk?hxeLZaKrMFFdGJp3xq8yhica-k933FqgAKaUcGP8YX3aEgm4X4fxT\_wSif9zRb?yAZhO 23-2-0 23-8<sub>1</sub>8 28-4-15 33-1-7 38-0-0 3\$-11<sub>1</sub>4

4-10-9 19-0-0 4-8-8 4-8-8 4-8-8 4-8-8 4-10-9

Scale = 1:66.3



LUMBER-

BCLL

BCDL

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

Rep Stress Incr

Code IBC2021/TPI2014

**BRACING-**

Horz(CT)

TOP CHORD BOT CHORD

0.01

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

3-2-14 oc bracing: 14-15. **WEBS** 1 Row at midpt

10

n/a

n/a

6-15, 6-14

Weight: 222 lb

FT = 5%

REACTIONS. All bearings 38-0-0.

0.0

10.0

(lb) - Max Horz 2=-171(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 12 except 15=-164(LC 10), 17=-111(LC 10), 14=-143(LC 11) Max Grav All reactions 250 lb or less at joint(s) except 2=305(LC 23), 15=714(LC 17), 10=305(LC 24), 17=586(LC 23), 12=585(LC 24), 14=712(LC 2)

WR.

Matrix-S

0.34

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 5-15=308/191, 7-14=-308/190, 3-17=-297/181, 9-12=-297/178

#### 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.

YES

- \* 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, 10, 12 except (jt=lb) 15=164, 17=111, 14=143.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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NVR, Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 22:05:05 2021 Page 1 ID:mk?hxeLZaKrWFFdGJp3xq8yhica-Gfszo7Fj?wRLS6izTgq6Kn74X53Rm1wTQjOnlLyAZaC



4x6 =

Scale = 1:35.6

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

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

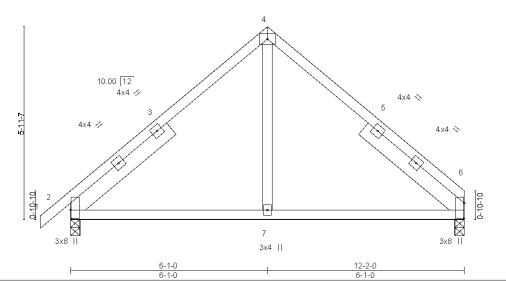


Plate Offsets (X,Y)--[2:0-3-4,0-0-4], [6:0-5-13,0-0-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl Ľd **PLATES** GRIP in (loc) Plate Grip DOL TCLL 20.0 1.15 TC 0.52 Vert(LL) -0.036-7 >999 360 197/144 MT20 ВĊ TCDL 10.0 Lumber DOL 1.15 0.37 -0.06 >999 240 Vert(CT) 6-7 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.01 6 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.02 2-7 >999 240 Weight: 71 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

SLIDER Left 2x6 SP No.2 4-0-0, Right 2x6 SP No.2 4-0-0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=147(LC 7)

Max Uplift 2=-69(LC 10), 6=-47(LC 11) Max Grav 2=545(LC 1), 6=484(LC 1)

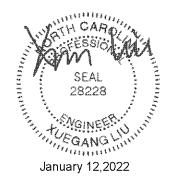
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-527/103, 4-6=-499/102 BOT CHORD 2-7=0/315, 6-7=0/315

WEBS 4-7=0/281

### 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 20.0ps fon 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 69 lb uplift at joint 2 and 47 lb uplift at joint 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.



WARRING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7473 rev. 5/19/20/20 BEFORE USE.

Design valid for use only with MiTTeMD 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



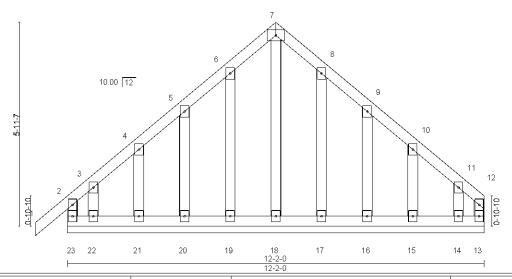
4x6 =

NVR. Frederick, MD - 21703

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 22:05:06 2021 Page 1 ID:mk?hxeLZaKrWFFdGJp3xq8yhica-krQL?TFLmDaC4Ft91NLLs\_gMfVUZVUZcfN8LHnyAZaB

-0-11-4 6-1-0 12-2-0 0-11-4 6-1-0 6-1-0

Scale = 1:33.6



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	0.11	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code IBC2021/TF	PI2014	Matri	x-R						Weight: 85 lb	FT = 5%

LUMBER- BRACING-

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

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

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

except end verticals.

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

REACTIONS. All bearings 12-2-0.

(lb) - Max Horz 23=141(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 19, 20, 21, 17, 16, 15 except 23=-113(LC 6), 13=-107(LC 9),

22=-149(LC 10), 14=-143(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 23, 13, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

### NOTES- (11-13)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 21, 17, 16, 15 except (jt=lb) 23=113, 13=107, 22=149, 14=143.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 12) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 13) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIN-7473 rev. 5/19/20/20 BEFORE USE.

Design valid for use only with MiTteMD 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



Job Truss Truss Type Qty Ply 02\_Valley 162714984 **ORDERS** VT-01061 VCOM 1 | Job Reference (optional) 8.530 s Aug | 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:50 2023 | Page 1 NVR, Frederick, MD - 21703, ID:rGk9TmskjqsaGCQl5m7tqFyUXzi-DAAgn26jc4T0?N0jxX08gA0YWkyR3CZhK0f9Ymy6TYR Scale = 1:7.8 3x4 = 10.00 12 3 3x4 /2 3x4 N 2-4-13 Plate Offsets (X,Y)--[2:0-2-0, Edge] LOADING (psf) SPACING-2-0-0 DEFL I/defl Ľd **PLATES** GRIP CSI. in TCLL 30.0 Plate Grip DOL 1.15 TC 0.06 197/144 Vert(LL) n/a n/a 999 MT20 (Roof Snow=30.0) Lumber DOL 1.15 BC 0.05 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 0.00 3 n/a Horz(CT) n/a **BCLL** 0.0 Code IBC2021/TPI2014 FT = 5% Matrix-P Weight: 7 lb BCDL 10.0 LUMBER-BRACING-

TOP CHORD

BOT CHORD

REACTIONS.

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

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

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

Max Grav 1=85(LC 18), 3=85(LC 19)

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

NOTES-

- 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
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

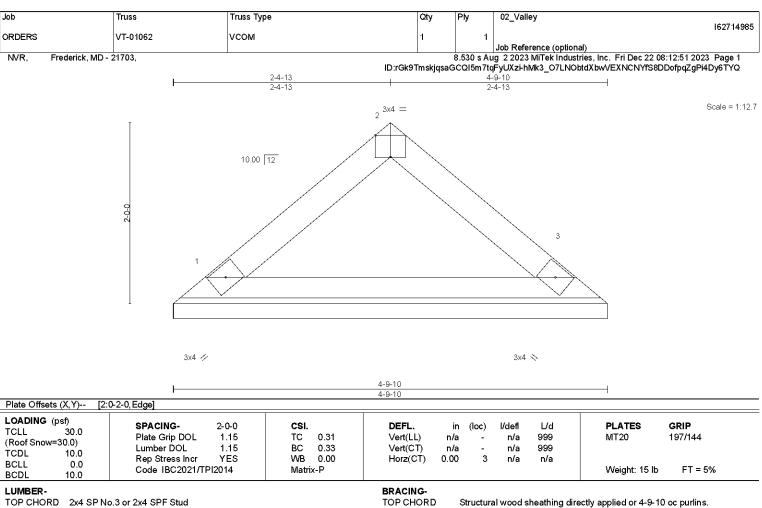
Rigid ceiling directly applied or 10-0-0 oc bracing.

December 27,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

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BOT CHORD

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

REACTIONS.

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

(size) 1=4-9-10, 3=4-9-10

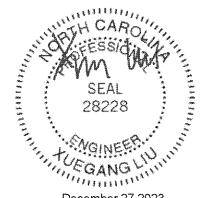
Max Horz 1=57(LC 9) Max Uplift 1=-40(LC 12), 3=-40(LC 13)

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

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

NOTES-

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

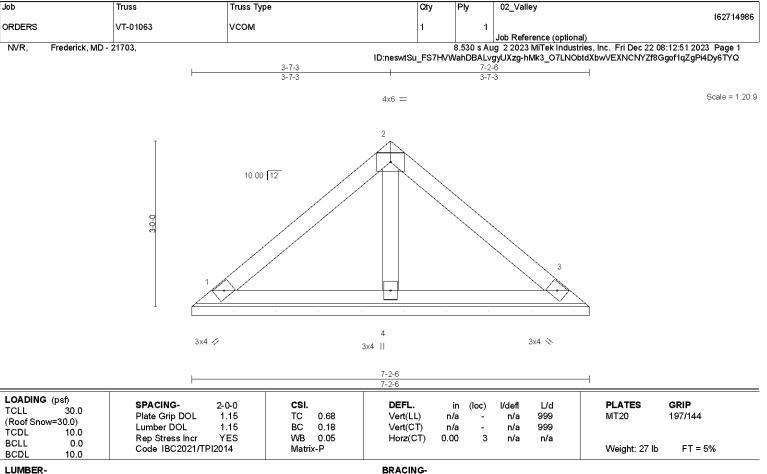


December 27,2023

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TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 1=7-2-6, 3=7-2-6, 4=7-2-6

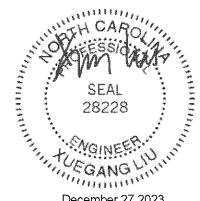
Max Horz 1=-92(LC 8)

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

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

## NOTES-

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



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

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

December 27,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty 02\_Valley 162714987 **ORDERS** VT-01064 VCOM Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:52 2023 Page 1 NVR, Frederick, MD - 21703, ID:GrQI5ouc0IF87g9tnuhaStyUXzf-9YIRCk8z8hjkEhA63x2clb5lUYYcX5bzoK8Gcfy6TYP 4-9-9 4-9-9 4-9-10 Scale = 1:26.8 4x6 = 2 10.00 12 4x4 💸 4x4 4 3x4 II LOADING (psf) SPACING-CSI. DEFL **PLATES** GRIP Ľd (loc) TCLL 30.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) n/a n/a 999 MT20 197/144 (Roof Snow=30.0) ВС Lumber DOL 1.15 0.39 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 36 lb FT = 5% BCDL LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.

(size) 1=9-7-3, 3=9-7-3, 4=9-7-3

Max Horz 1=-126(LC 8)

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

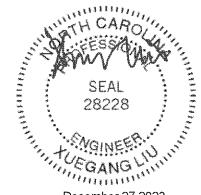
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

WERS 2-4=-282/207

### 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.



December 27,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty 02\_Valley 162714988 **ORDERS** VT-01065 VCOM Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:53 2023 Page 1 NVR, Frederick, MD - 21703, ID:GrQI5ouc0IF87g9tnuhaStyUXzf-dlspP48bv?rbsrllcfarHoev8xwdGXx71zup95y6TYO 6-0-0 Scale = 1:30.5 4x6 = 10 10.00 12 3x4 II 3x4 || 12 3x4 4 8 7 6 3x4 N 3x4 || 3x4 || 3x4 || 12-0-0 LOADING (psf)

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

n/a

n/a

0.00

LUMBER-

(Roof Snow=30.0)

TCLL

TCDL

**BCLL** 

BCDL

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

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

REACTIONS. All bearings 12-0-0. (lb) - Max Horz 1=161(LC 9)

30.0

10.0

0.0

10.0

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

2-0-0

1.15

1.15

YES

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

CSI.

TC

ВС

WB

Matrix-S

0.68

0.21

0.15

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

SPACING-

Plate Grip DOL

Rep Stress Incr

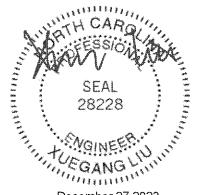
Code IBC2021/TPI2014

Lumber DOL

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

NOTES-

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



PLATES

Weight: 49 lb

MT20

Ľd

999

999

n/a

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

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

n/a

n/a

n/a

5

GRIP

197/144

FT = 5%

December 27,2023

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