

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0323-1467 Lot 93 South Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I57502170 thru I57502199

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



March 31,2023

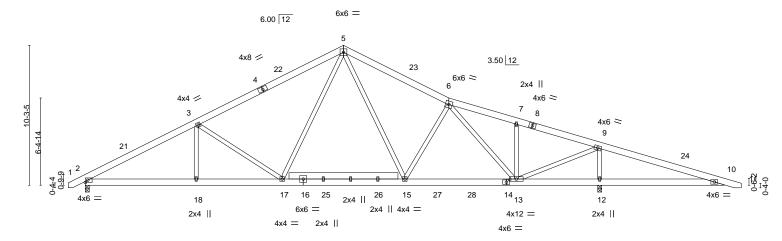
Gilbert, Eric

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

Job Truss Truss Type Qty Ply Lot 93 South Creek 157502170 J0323-1467 **ROOF SPECIAL** 3 A1 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:18:59 2023 Page 1 Comtech, Inc.

ID:L1J54eQhkyo6whVlnXZxPFzEJO5-xNf\_b2hYN8v86vIS2OF4AR0m324oV2JIk2LgYkzVgqg 18-11-8 26-8-5 31-6-1 46-11-0 8-1-12 10-9-12 7-8-13 4-9-12 5-5-10 7-8-10

Scale = 1:84.6



1	8-1-12	14-5-8	14 <sub>1</sub> 11-8 18-11-8	22-11-8 23-5-8 26-8-5	31-6-1 32 <sub>-</sub> 3-10	37-9-4	, 46-11-0 <sub>i</sub>	
	8-1-12	6-3-12	0-6-0 4-0-0	4-0-0 0-6-0 3-2-13	4-9-12 0-9-9	5-5-10	9-1-12	
Offsets (X,Y)	[14:0-2-13,0-2-0]							

BRACING-

TOP CHORD

**BOT CHORD** 

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.14 15-17 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.23 15-17 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.05 12 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 17 >999 240	Weight: 341 lb FT = 20%

LUMBER-

Plate O

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

2x4 SP No.2 \*Except\* WFBS 19-20: 2x6 SP No.1

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

Max Horz 2=-132(LC 10)

Max Uplift 2=-111(LC 12), 12=-384(LC 9) Max Grav 2=1476(LC 1), 12=2400(LC 1)

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

TOP CHORD 2-3=-2464/421, 3-5=-1946/386, 5-6=-1859/311, 6-7=-1281/115, 7-9=-1340/85,

9-10=-1099/1300

**BOT CHORD** 2-18=-244/2170, 17-18=-244/2170, 15-17=0/1384, 13-15=-7/1737, 12-13=-1160/1117,

10-12=-1160/1117

 $3-18=0/294,\ 9-13=-746/2349,\ 9-12=-2159/799,\ 3-17=-736/300,\ 5-17=-86/691,$ 

5-15=-36/633, 6-13=-832/456

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 47-11-1 zone; cantilever 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 30.0psf 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 111 lb uplift at joint 2 and 384 lb uplift at joint 12.



Structural wood sheathing directly applied or 4-9-4 oc purlins.

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

March 31.2023



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502171 J0323-1467 A1GE **ROOF SPECIAL** Job Reference (optional)

18-11-8

10-9-12

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0 1-3-0

8-1-12

8-1-12

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:03 2023 Page 1 ID:L1J54eQhkyo6whVlnXZxPFzEJO5-p8uVRPk2QMPZaXcEHEJ0LHBSCfRgRsUtegJuhWzVgqc

Scale = 1:84.6

33-9-4 39-9-4 39-9-4 46-11-0 48-2-0 1-9-9 1-2-0-0 1-5-2 1-2-0-0 2-0-0 3-1-12 1-3-0 31-6-1 7-8-13 4-9-12 0-6-14 1-5-10

4x12 =

1 Brace at Jt(s): 29, 30

6x6 =6.00 12 5 4x8 / 3.50 12 6x6 = 4x4 / 4x6 = 10-3-5 3 8 9 4x6 = 10 11 6-4-14 12 30 13 29 <sup>22</sup>21 25 24 31 32 23 34 26 18 17 20 19 6x6 4x4 4x6 = 3x10 II 4x4

1	8-1-12	14-5-8	14 <sub>1</sub> 11-8 18-11-8	1 2	2-11-8 23-5-8 26-8-5	1	31-6-1	32-3-10	37-9-4	<sub>1</sub> 39-9-4	41-9-4	43-9-4	46-11-0	1
	8-1-12	6-3-12	0-6-0 4-0-0	١.	4-0-0 0 <sup>-</sup> 6 <sup>-</sup> 0 3-2-13	1	4-9-12	0-9-9	5-5-10	2-0-0	2-0-0	2-0-0	3-1-12	7
Offsets (X,Y)	[2:0-0-0,0-1-11], [22:0-	-2-13,0-2-0]												

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	fl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.14 23-25 >999	360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.23 23-25 >999	9 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.05 20 n/s	a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 25 >999	9 240	Weight: 352 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

JOINTS

LUMBER-

Plate

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

2x4 SP No.2 \*Except\* WFBS 27-28: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 20=0-3-8

Max Horz 2=-203(LC 13)

Max Uplift 2=-339(LC 12), 20=-720(LC 9) Max Grav 2=1476(LC 1), 20=2400(LC 1)

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

2-3=-2465/782, 3-5=-1946/664, 5-6=-1859/595, 6-7=-1230/278, 7-9=-1224/235, TOP CHORD

9-10=-1279/230, 10-11=-1285/221, 11-12=-1118/1271, 12-13=-1123/1252,

13-14=-1133/1221, 14-15=-1152/1206

BOT CHORD 2-26=-567/2118, 25-26=-567/2118, 23-25=-157/1369, 21-23=-192/1704,

20-21=-1154/1165, 19-20=-1154/1165, 18-19=-1154/1165, 17-18=-1154/1165,

15-17=-1154/1165

**WEBS** 3-26=0/294, 11-20=-2060/1114, 3-25=-736/470, 5-25=-193/678, 5-23=-123/616,

7-21=-313/202, 6-21=-821/519, 21-29=-1034/2367, 29-30=-1019/2323, 11-30=-1026/2356

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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 30.0psf 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 339 lb uplift at joint 2 and 720 lb uplift at joint 20.



Structural wood sheathing directly applied or 4-7-0 oc purlins.

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

March 31.2023





Job Truss Truss Type Qty Ply Lot 93 South Creek 157502172 J0323-1467 A2 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:05 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVlnXZxPFzEJO5-mW0Gr5mly\_fHqqlcOeMVQiGn8T7Yvn?A6\_o\_mOzVgqa

26-8-5

7-8-13

32-11-5

6-3-1

37-9-4

4-9-15

5-11-11

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

5-12, 4-14

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

1 Row at midpt

18-11-8

8-10-1

19-10-12

11-10-12

10-1-7 0-5-9

Scale = 1:82.1

46-11-0

7-8-10

46-11-0

9-1-12

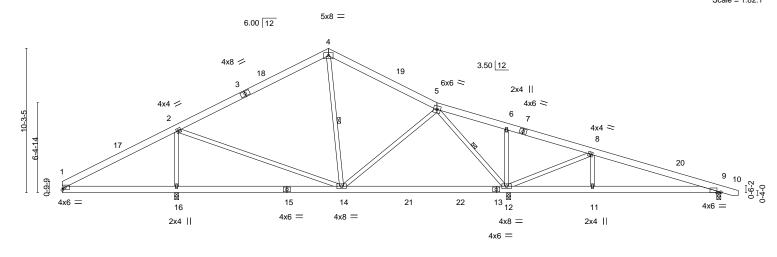


Plate Off	Plate Offsets (X,Y) [9:0-3-5,Edge]								
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. ii	n (loc) I/defl	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.17	7 12-14 >999	360	MT20	244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.25	5 12-14 >999	240			
BCLL	0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.0	l 12 n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	9 9-11 >999	240	Weight: 313 lb	FT = 20%	

31-9-9

11-10-12

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x6 SP No.1 WFBS

(size)

2x4 SP No.2

8-0-0

16=0-3-8, 12=0-3-8, 9=0-3-8 Max Horz 16=-133(LC 8)

Max Uplift 16=-122(LC 12), 12=-298(LC 9), 9=-225(LC 9) Max Grav 16=1587(LC 1), 12=1730(LC 1), 9=504(LC 24)

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

TOP CHORD 1-2=-488/609, 2-4=-558/124, 4-5=-519/115, 5-6=-297/606, 6-8=-352/606, 8-9=-509/373 **BOT CHORD**  $1 - 16 = -404/499, \ 14 - 16 = -404/504, \ 12 - 14 = 0/311, \ 11 - 12 = -265/420, \ 9 - 11 = -265/420$  $2\text{-}16\text{=-}1352/636, 2\text{-}14\text{=-}247/807, 5\text{-}14\text{=-}4/277, 8\text{-}12\text{=-}1015/810, 8\text{-}11\text{=-}289/297, }$ WFBS

6-12=-297/130, 5-12=-1091/323

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 47-11-1 zone; cantilever left exposed; porch 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 30.0psf 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 122 lb uplift at joint 16, 298 lb uplift at joint 12 and 225 lb uplift at joint 9.



March 31,2023

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

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

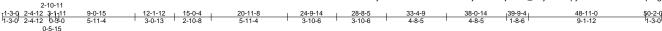
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



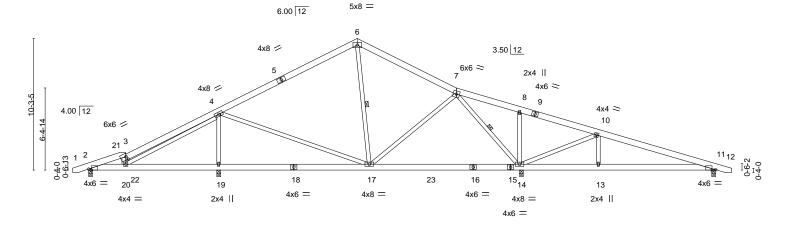
Job Truss Truss Type Qty Ply Lot 93 South Creek 157502173 J0323-1467 ROOF SPECIAL GIRDER A3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:06 2023 Page 1 ID:L1J54eQhkyo6whVlnXZxPFzEJO5-Ejae3RmxjHo8S\_KoyMtkzwpyasTKeD7KLeYYlqzVgqZ



Scale = 1:89.9



2-10	0-11							
2-4-12 3	-1 <sub>7</sub> 11 7-7-	1 10-0-0	21-10-12	33-9-4	38-0-14	39-9-4	48-11-0	ı
2-4-12	)-3 <sup>l</sup> -0 4-6-	1 2-4-5	11-10-12	11-10-8	4-3-10	1-8-6	9-1-12	i
0-5	-15							
V) [2·0-2	-8 Edgel	3.0-1-0 0-3-0	] [11:0-3-5 Edge]					

Plate Offsets (A, f)	Plate Offsets (A, f) [2.0-2-6,Edge], [3.0-1-0,0-3-0], [11.0-3-5,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP				
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.16 14-17 >999 360	MT20 244/190				
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.24 14-17 >999 240					
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Horz(CT) 0.01 11 n/a n/a					
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 11-13 >999 240	Weight: 339 lb FT = 20%				

LUMBER-

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS 1 Row at midpt 7-14, 6-17

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=-120(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-125(LC 4), 14=-280(LC 24), 19=-163(LC 8), 11=-222(LC

24)

All reactions 250 lb or less at joint(s) except 2=349(LC 1), 14=1777(LC 1), 19=1403(LC 1), 11=508(LC Max Grav

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

TOP CHORD 2-3=-402/131, 3-4=-477/188, 4-6=-647/134, 6-7=-583/111, 7-8=-101/577,

8-10=-157/578, 10-11=-522/239

BOT CHORD 2-20=-54/353, 14-17=0/383, 13-14=-161/433, 11-13=-161/433

**WEBS**  $4\text{-}17\text{=}0/554, \, 7\text{-}17\text{=}0/293, \, 7\text{-}14\text{=}\text{-}1148/111, \, 10\text{-}14\text{=}\text{-}1018/473, \, 10\text{-}13\text{=}\text{-}118/299, \, 10\text{-}12$ 

3-20=-276/103, 4-19=-1167/281, 8-14=-299/126, 4-20=-279/570

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; 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 30.0psf 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 125 lb uplift at joint 2, 280 lb uplift at joint 14, 163 lb uplift at joint 19 and 222 lb uplift at joint 11.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 35 lb down and 27 lb up at 2-4-12 on top chord, and 13 lb down and 34 lb up at 2-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-6=-60, 6-7=-60, 7-12=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 22=-2(F)



March 31,2023

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



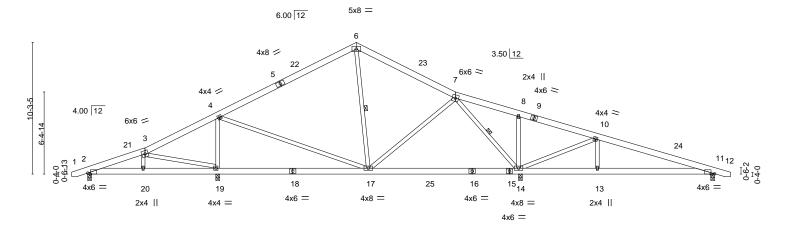
Job Truss Truss Type Qty Ply Lot 93 South Creek 157502174 J0323-1467 **ROOF SPECIAL** A4 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:08 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

4-4-12 4-5-11 4-4-12 0-0-15

ID:L1J54eQhkyo6whVlnXZxPFzEJO5-A5hOU7oBFv2shlUB4nvC2LuIMg9R67cdoy1eNjzVgqX 12-1-12 20-11-8 28-8-5 34-11-5 39-9-4 48-11-0 7-8-1 8-2-15 7-8-13 6-3-1 4-9-15 7-8-10

Scale = 1:89.9



H	4-4-12 4-5 <sub>1</sub> 11 10-0-0 4-4-12 0-0-15 5-6-5	21-10-12 11-10-12	33-9-4 11-10-8	39-9-4 6-0-0	48-11-0 9-1-12
Plate Offsets (X,Y)	[2:0-2-8,Edge], [11:0-3-5,Edge]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.46 BC 0.40 WB 0.77 Matrix-S	DEFL.         in (loc)         l/defl           Vert(LL)         -0.16 14-17 >999           Vert(CT)         -0.23 14-17 >999           Horz(CT)         0.01 11 n/a           Wind(LL)         0.09 11-13 >999	L/d 360 240 n/a 240	PLATES         GRIP           MT20         244/190           Weight: 336 lb         FT = 20%

LUMBER-

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

2x4 SP No.2 WFBS

**BRACING-**

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

6-0-0 oc bracing: 17-19.

WEBS 1 Row at midpt 7-14, 6-17

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=-120(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-157(LC 8), 19=-136(LC 12), 14=-284(LC 9), 11=-223(LC

All reactions 250 lb or less at joint(s) except 2=396(LC 1), 19=1335(LC 1), 14=1792(LC 1), 11=511(LC Max Grav

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

TOP CHORD 2-3=-459/314, 4-6=-664/154, 6-7=-600/143, 7-8=-270/566, 8-10=-326/567,

10-11=-530/394

BOT CHORD 2-20=-221/386, 19-20=-203/380, 14-17=0/393, 13-14=-285/441, 11-13=-285/441 **WEBS**  $3-19=-396/447,\ 4-17=-36/485,\ 7-17=-24/300,\ 10-14=-1018/813,\ 10-13=-290/299,$ 

4-19=-1020/389, 8-14=-299/132, 7-14=-1169/375

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch 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 30.0psf 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 157 lb uplift at joint 2, 136 lb uplift at joint 19, 284 lb uplift at joint 14 and 223 lb uplift at joint 11.





Job Truss Truss Type Qty Ply Lot 93 South Creek 157502175 J0323-1467 **ROOF SPECIAL** A5 Job Reference (optional)

20-11-8

8-2-0

Fayetteville, NC - 28314, Comtech, Inc.

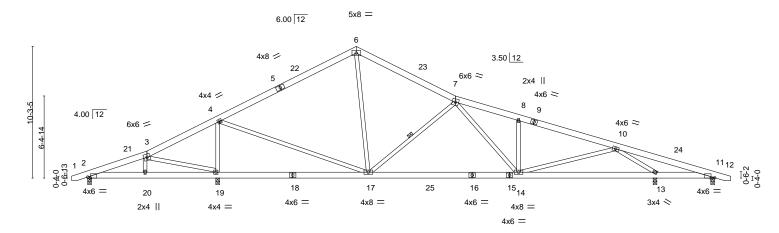
12-1-12 7-6-4

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:09 2023 Page 1 ID:L1J54eQhkyo6whVlnXZxPFzEJO5-elFmhTpp0CAjJS3NdUQRaYRT44SHrc\_m1cmCv9zVgqW 28-8-5 33-7-8 41-2-6 44-3-4 48-11-0 7-8-13 7-6-14 3-0-14 4-7-12

11-3-1

48-11-0

Scale = 1:89.9



L	4-7-0 10-0-0	21-10-12	33-1-0	1 44-3-4 1	40-11-0
	4-7-8 5-4-8	11-10-12	11-8-12	10-7-12	4-7-12
Plate Offsets (X,Y)	[2:0-2-8,Edge], [11:0-3-5,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d <b>PLATES</b>	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.21 14-17 >999	360 MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.34 14-17 >999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.03 13 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 14-17 >999	240 Weight: 340 I	b FT = 20%

LUMBER-

WFBS

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

2x4 SP No.2

**BRACING-**

33-7-8

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS 1 Row at midpt

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=-120(LC 17)

1-7-8

Max Uplift All uplift 100 lb or less at joint(s) except 2=-168(LC 8), 19=-127(LC 12), 11=-129(LC 9), 13=-126(LC

21-10-12

Max Grav All reactions 250 lb or less at joint(s) 11 except 2=328(LC 23), 19=1998(LC 1), 13=1716(LC 1)

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

10-0-0

TOP CHORD 2-3=-254/268, 3-4=-171/414, 4-6=-1235/320, 6-7=-1219/327, 7-8=-2208/471,

8-10=-2236/409. 10-11=-159/715

**BOT CHORD**  $17\text{-}19\text{=-}263/256,\ 14\text{-}17\text{=-}194/1748,\ 13\text{-}14\text{=-}305/1517,\ 11\text{-}13\text{=-}617/198}$ 

**WEBS** 3-19=-349/432, 4-17=-225/1309, 7-17=-992/320, 4-19=-1692/543, 8-14=-356/165,

7-14=-96/566, 10-14=0/662, 10-13=-2584/605, 6-17=-10/560

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch 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 30.0psf 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 168 lb uplift at joint 2, 127 lb uplift at joint 19, 129 lb uplift at joint 11 and 126 lb uplift at joint 13.





Job Truss Truss Type Qty Ply Lot 93 South Creek 157502176 J0323-1467 **ROOF SPECIAL** A5A Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:11 2023 Page 1

20-11-8

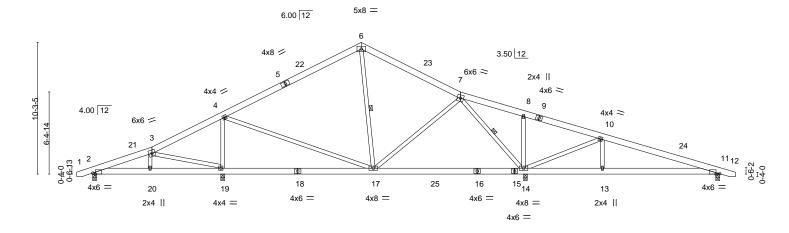
8-2-0

Fayetteville, NC - 28314, Comtech, Inc.

12-1-12 7-6-4

ID:L1J54eQhkyo6whVlnXZxPFzEJO5-agNX68q3YqQRYIDmlvSvgzWpbtA8JUM3UwFJz2zVgqU 28-8-5 33-7-8 39-9-4 44-3-4 48-11-0 7-8-13 6-1-12 4-6-0 4-7-12

Scale = 1:89.9



•	4-7-8 5-4-8	11-10-12	11-8-12	6-1-12	4-6-0 4-7-12	
Plate Offsets (X,Y)	[2:0-2-8,Edge], [11:0-3-5,Edge]					_
						_
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.16 14-17	>999 360	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.23 14-17	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.01 11	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 11-13	>999 240	Weight: 336 lb FT = 20%	

LUMBER-

WFBS

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

2x4 SP No.2

**BRACING-**

33-7-8

TOP CHORD **BOT CHORD** 

WEBS

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

39-9-4

44-3-4

48-11-0

6-0-0 oc bracing: 17-19.

1 Row at midpt 7-14, 6-17

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=-120(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-159(LC 8), 19=-136(LC 12), 14=-284(LC 9), 11=-223(LC

21-10-12

4-7-8

All reactions 250 lb or less at joint(s) except 2=399(LC 1), 19=1332(LC 1), 14=1793(LC 1), 11=511(LC Max Grav

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

10-0-0

TOP CHORD 2-3=-452/306, 4-6=-665/155, 6-7=-602/145, 7-8=-269/566, 8-10=-325/567,

10-11=-530/394

BOT CHORD 2-20=-212/377, 19-20=-195/371, 14-17=0/393, 13-14=-286/441, 11-13=-286/441 **WEBS**  $3-19=-384/436,\ 4-17=-33/482,\ 7-17=-24/300,\ 4-19=-1014/386,\ 8-14=-299/132,$ 

7-14=-1170/376, 10-14=-1018/814, 10-13=-290/299

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch 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 30.0psf 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 159 lb uplift at joint 2, 136 lb uplift at joint 19, 284 lb uplift at joint 14 and 223 lb uplift at joint 11.





Job Truss Truss Type Qty Ply Lot 93 South Creek 157502177 J0323-1467 **ROOF SPECIAL** A6 Job Reference (optional)

20-11-8

8-2-15

Fayetteville, NC - 28314, Comtech, Inc.

4-4-12

4-4-12

4-5<sub>1</sub>11 0-0-15

12-1-12

7-8-1

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:13 2023 Page 1 ID:L1J54eQhkyo6whVlnXZxPFzEJO5-X3VHXqsK4Rg8n3M9sKVNlOb92hqHnQhMyEkP2wzVgqS 28-8-5 33-7-8 36-4-14 41-2-6 44-5-0 7-8-13 4-11-3 2-9-6 4-9-8 3-2-10

Structural wood sheathing directly applied or 4-10-15 oc purlins,

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

except end verticals.

1 Row at midpt

Scale = 1:80.9

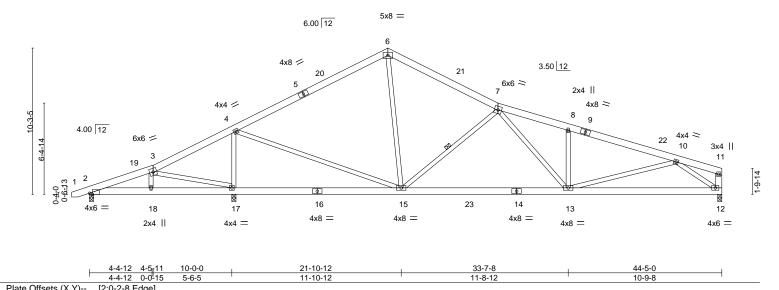


Plate Offsets (X,Y)	[2:0-2-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/de	fl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.20 13-15 >999	9 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.32 13-15 >99	9 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.03 12 n/	'a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 13-15 >99	9 240	Weight: 317 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

2x4 SP No.2 \*Except\* WFBS

11-12: 2x6 SP No.1

REACTIONS.

(size) 2=0-3-8, 17=0-3-8, 12=0-3-8

Max Horz 2=153(LC 12)

Max Uplift 2=-159(LC 8), 17=-132(LC 9), 12=-112(LC 13) Max Grav 2=332(LC 23), 17=1996(LC 1), 12=1308(LC 1)

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

TOP CHORD 2-3=-278/252, 3-4=-204/384, 4-6=-1258/311, 6-7=-1243/321, 7-8=-2298/488,

8-10=-2317/420

BOT CHORD 13-15=-246/1794, 12-13=-365/1592

**WEBS** 3-17=-362/438, 4-15=-239/1302, 7-15=-1022/317, 4-17=-1687/564, 8-13=-389/184,

7-13=-92/615, 6-15=-1/580, 10-13=0/649, 10-12=-1853/491

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 44-2-4 zone; porch left 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 30.0psf 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 159 lb uplift at joint 2, 132 lb uplift at joint 17 and 112 lb uplift at joint 12.



March 31,2023

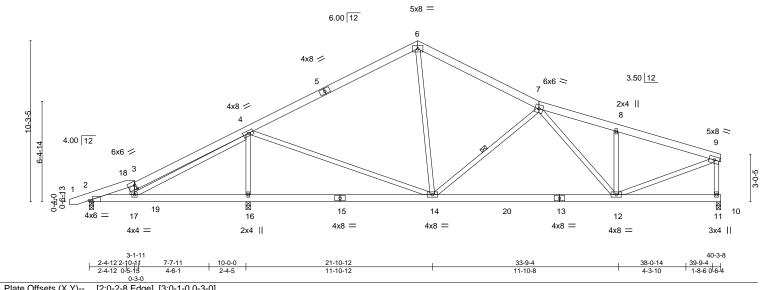
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502178 J0323-1467 ROOF SPECIAL GIRDER A7 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:15 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVlnXZxPFzEJO5-TSd2yWtab2ws1NWX\_IXrqphUGVVcFNkePXDW6pzVgqQ 3-1-11 1-3-0 2-4-12 2-10-11 1-3-0 2-4-12 0-5-15 39-9-4 1-8-6 0-6-4 0-3-0 Scale = 1:73.5



T late Office	010 (71, 17	[2:0 2 0;2ag0]; [0:0 1 0;0 0 0]			
LOADING	i (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.17 12-14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.28 12-14 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.49	Horz(CT) 0.01 11 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 16-17 >999 240	Weight: 295 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

WFBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 11=0-3-8

Max Horz 2=178(LC 8)

Max Uplift 2=-120(LC 4), 16=-166(LC 8), 11=-90(LC 28) Max Grav 2=327(LC 19), 16=1803(LC 1), 11=1147(LC 1)

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

TOP CHORD 2-3=-341/118, 3-4=-409/174, 4-6=-1072/158, 6-7=-1038/137, 7-8=-1426/172, 8-9=-1432/116. 9-11=-1094/114

BOT CHORD 2-17=-115/294, 12-14=-79/1310

4-14=-5/1046, 7-14=-642/192, 9-12=-70/1415, 3-17=-263/100, 4-16=-1567/285, **WEBS** 

8-12=-363/162, 4-17=-275/553, 6-14=0/450

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; 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 30.0psf 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 120 lb uplift at joint 2, 166 lb uplift at joint 16 and 90 lb uplift at joint 11.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 35 lb down and 27 lb up at 2-4-12 on top chord, and 13 lb down and 34 lb up at 2-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-6=-60, 6-7=-60, 7-9=-60, 2-10=-20

Concentrated Loads (lb) Vert: 19=-2(B)



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

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

except end verticals.

1 Row at midpt

March 31,2023

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



J0323-1467 **ROOF SPECIAL A8** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:17 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVInXZxPFzEJO5-PqkoNCvq7gAaGggw5AZJvEmq6IDRjBVxsridBizVgqO 9-7-14 18-11-8 32-11-5 37-9-4 9-7-14 4-9-15 8-10-1 7-8-13 6-3-1 Scale = 1:66.9 5x8 =6.00 12 4x8 / 3.50 12 6x6 = 5 2x4 || 4x4 / 10-3-5 6 2 5x8 = 7 6-6-0 **⊗** 14 × × 13 12 19 11 4x6 =10 98 2x4 || 4x8 = 4x8 = 4x8 = 4x8 = 3x4 || 8-0-0 19-10-12 31-9-9 37-9-4 38-3<sub>-</sub>8 0-6-4 8-0-0 11-10-12 11-10-13 5-11-11 CSI. DEFL. LOADING (psf) SPACING-2-0-0 in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.52 Vert(LL) -0.16 10-12 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.41 Vert(CT) -0.24 10-12 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.86 Horz(CT) 0.00 10 n/a n/a

Qty

Ply

-0.04 12-14

>999

except end verticals.

1 Row at midpt

240

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

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

5-12, 4-12

Weight: 269 lb

FT = 20%

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WFBS

Lot 93 South Creek

157502179

LUMBER-

BCDL

Job

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

10.0

REACTIONS. (size) 14=0-3-8, 10=0-3-8, 9=0-3-8

Truss

Truss Type

Max Horz 14=172(LC 12)

Max Uplift 14=-116(LC 12), 10=-109(LC 13), 9=-23(LC 9) Max Grav 14=1659(LC 1), 10=1305(LC 2), 9=124(LC 24)

Code IRC2015/TPI2014

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

TOP CHORD 1-2=-491/608, 2-4=-647/136, 4-5=-568/151 **BOT CHORD** 1-14=-403/501, 12-14=-403/402, 10-12=-13/381

**WEBS** 2-14=-1423/689, 2-12=-312/894, 6-10=-393/212, 5-10=-820/142

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-0-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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 30.0psf 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 116 lb uplift at joint 14, 109 lb uplift at joint 10 and 23 lb uplift at joint 9.



March 31,2023

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

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

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



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502180 J0323-1467 **ROOF SPECIAL** A9 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:18 2023 Page 1 Comtech, Inc.

10-9-12

19-10-12

ID:L1J54eQhkyo6whVInXZxPFzEJO5-t0IAaXwSuzIRuqF6ft5YSSJxUiYgSfV55VSAj8zVgqN 18-11-8 26-8-5 29-7-2 38-3-8 8-1-12 2-10-13

Scale = 1:74.5

8-8-6

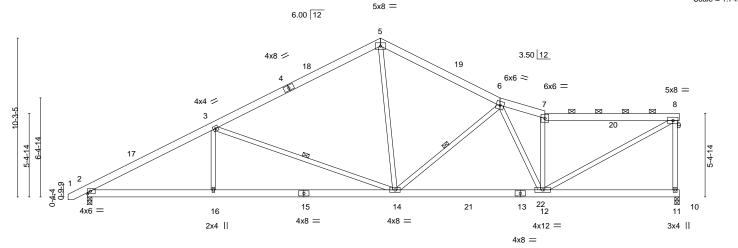
38-3-8

Structural wood sheathing directly applied or 4-6-7 oc purlins,

3-14, 6-14

except end verticals, and 2-0-0 oc purlins (4-8-4 max.): 7-9.

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



		8-1-12			11-9-0	'	9-8-	6	'	8-8-6	<u>'</u>
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.14 12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.30 14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.06 11	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	12014	Matrix	k-S	Wind(LL)	0.07 14-16	>999	240	Weight: 278 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

29-7-2

1 Row at midpt

LUMBER-

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

2x4 SP No.2 WFBS

REACTIONS. (size) 11=0-3-8, 2=0-3-8 Max Horz 2=225(LC 12)

Max Uplift 11=-103(LC 13), 2=-101(LC 12)

Max Grav 11=1525(LC 1), 2=1590(LC 1)

8-1-12

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

2-3=-2747/521, 3-5=-1803/453, 5-6=-1845/475, 6-7=-2149/473, 7-8=-2053/434, TOP CHORD

8-11=-1434/381

BOT CHORD 2-16=-574/2333, 14-16=-574/2333, 12-14=-445/2033

 $3\text{-}16\text{=}0/433,\ 3\text{-}14\text{=}-952/296,\ 6\text{-}14\text{=}-651/212,\ 7\text{-}12\text{=}-975/317,\ 8\text{-}12\text{=}-487/2327,\ 8\text{-$ WFBS

5-14=-108/968

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 30.0psf 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 103 lb uplift at joint 11 and 101 lb uplift at joint 2.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

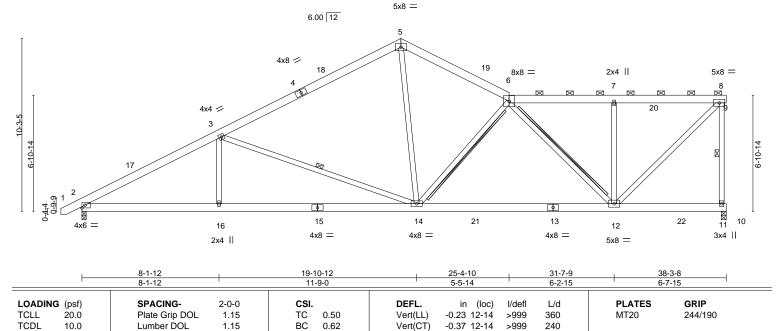
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502181 J0323-1467 **ROOF SPECIAL** A10 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:00 2023 Page 1 Comtech, Inc.

ID:L1J54eQhkyo6whVInXZxPFzEJO5-PZDNoOiA8R1\_j3tfc5mJjfZxjSNAEYCRyi5D5BzVgqf 18-11-8 <u>25-4-1</u>0 31-7-9 8-1-12 8-1-12 10-9-12 6-5-2 6-2-15

Scale = 1:68.5



LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

Wind(LL) BRACING-

Horz(CT)

TOP CHORD

0.06

0.07 14-16

11

n/a

>999

BOT CHORD WFBS

Structural wood sheathing directly applied or 4-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.

Weight: 283 lb

FT = 20%

Rigid ceiling directly applied or 9-10-2 oc bracing.

1 Row at midpt 8-11. 3-14

n/a

240

T-Brace: 2x4 SPF No.2 - 6-14, 6-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 11=0-3-8, 2=0-3-0

Max Horz 2=256(LC 12)

Max Uplift 11=-110(LC 13), 2=-96(LC 12) Max Grav 11=1586(LC 2), 2=1590(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD  $2-3=-2750/518,\ 3-5=-1808/441,\ 5-6=-1843/471,\ 6-7=-1342/294,\ 7-8=-1340/293,$ 

YES

8-11=-1484/382

**BOT CHORD** 2-16=-625/2338, 14-16=-625/2338, 12-14=-475/1948

**WEBS** 3-16=0/419, 3-14=-949/305, 6-14=-606/223, 6-12=-927/267, 7-12=-453/226,

8-12=-411/1894, 5-14=-125/1085

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

0.67

- 3) Provide adequate drainage to prevent water ponding.
- 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 30.0psf 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 110 lb uplift at joint 11 and 96 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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

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



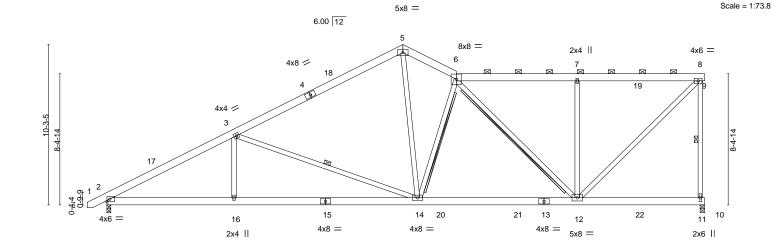
Job Truss Truss Type Qty Ply Lot 93 South Creek 157502182 J0323-1467 **ROOF SPECIAL** 2 A11 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:01 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVlnXZxPFzEJO5-tlml0jjoul9rLDSr9pHYGs56crlCzxObBMqnddzVgqe 18-11-8 22-4-10 30-1-9 . 38-3-8

3-5-2

7-8-15

8-1-15

10-9-12



F	7-8-6 8-1-12	19-10-12	22-4-10   30-1-9	38-3-8
	7-8-6 0-5-6	11-9-0	2-5-14   7-8-15	8-1-15
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.49 BC 0.50 WB 0.93 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.17 12-14         >999         360           Vert(CT)         -0.29 14-16         >999         240           Horz(CT)         0.06         11         n/a         n/a           Wind(LL)         0.07 14-16         >999         240	PLATES GRIP MT20 244/190  Weight: 293 lb FT = 20%

LUMBER-

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

**BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.

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

WFBS 1 Row at midpt 8-11. 3-14

T-Brace: 2x4 SPF No.2 - 6-12, 6-14

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. (size) 11=0-3-8, 2=0-3-0

Max Horz 2=287(LC 12)

Max Uplift 11=-119(LC 13), 2=-90(LC 12) Max Grav 11=1645(LC 2), 2=1590(LC 1)

8-1-12

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

TOP CHORD  $2\text{-}3\text{--}2753/489,\ 3\text{-}5\text{--}1804/413,\ 5\text{-}6\text{--}1813/475,\ 6\text{-}7\text{--}1303/310,\ 7\text{-}8\text{--}1301/308}$ 

BOT CHORD 2-16=-667/2340, 14-16=-667/2340, 12-14=-447/1760

**WEBS**  $8-11=-1470/415,\ 3-14=-949/300,\ 6-12=-697/199,\ 7-12=-580/286,\ 8-12=-437/1847,$ 

3-16=0/431, 5-14=-161/1180, 6-14=-602/205

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 22-4-10, Interior(1) 22-4-10 to 38-3-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 30.0psf 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 119 lb uplift at joint 11 and 90 lb uplift at joint 2.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 31,2023

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

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

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



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502183 J0323-1467 В1 COMMON 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc. 18-11-8

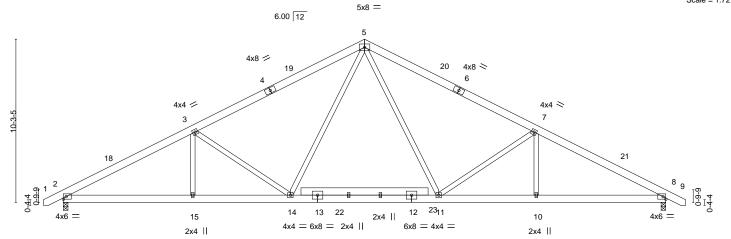
10-9-12

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:19 2023 Page 1 ID:L1J54eQhkyo6whVlnXZxPFzEJO5-LDsYotx5fHQIV\_qIDbcn\_frBy6uAB7KEK9BkFazVgqM 29-9-4 37-11-0 10-9-12 8-1-12

Structural wood sheathing directly applied or 4-6-15 oc purlins.

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

Scale = 1:72.5



		4-3-8 14-11-8 18-11- -1-12 0-8-0 4-0-0		37-11-0 8-1-12
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.50 BC 0.45 WB 0.71 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.16 11-14 >999         360           Vert(CT)         -0.28 11-14 >999         240           Horz(CT)         0.07 8 n/a n/a           Wind(LL)         0.06 14 >999         240	PLATES         GRIP           MT20         244/190           Weight: 278 lb         FT = 20%

**BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 \*Except\* WFBS 16-17: 2x6 SP No.1

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-131(LC 10)

Max Uplift 2=-107(LC 12), 8=-107(LC 13) Max Grav 2=1579(LC 1), 8=1579(LC 1)

8-1-12

8-1-12

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

2-3=-2673/552, 3-5=-2095/525, 5-7=-2095/525, 7-8=-2673/552 TOP CHORD

**BOT CHORD** 2-15=-373/2290, 14-15=-373/2290, 11-14=-110/1476, 10-11=-379/2290, 8-10=-379/2290 WFBS 7-10=0/280, 3-15=0/280, 3-14=-720/287, 5-14=-80/717, 5-11=-80/718, 7-11=-720/287

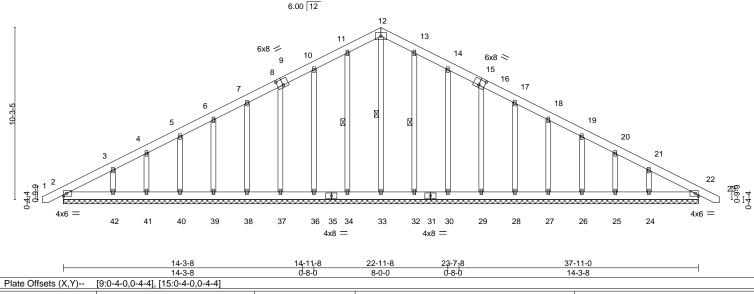
### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 39-0-2 zone; 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 30.0psf 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 107 lb uplift at joint 2 and 107 lb uplift at joint 8.



March 31.2023

Job Truss Truss Type Qty Ply Lot 93 South Creek 157502184 J0323-1467 B1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:21 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVInXZxPFzEJO5-lb\_JCZyLBuh0ll\_hK?eF34weRvgNfA\_XnTgqKTzVgqK 18-11-8 37-11-0 18-11-8 18-11-8 Scale = 1:68.8 5x8 =



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.02 WB 0.12	Vert(CT) 0.00 2	c) I/defl L/d 22 n/r 120 22 n/r 120 22 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 325 lb FT = 20%

LUMBER-

OTHERS

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 **BRACING-**

TOP CHORD **BOT CHORD** WFBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 12-33, 11-34, 13-32

REACTIONS. All bearings 37-11-0.

(lb) -Max Horz 2=203(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except 42=-121(LC 12), 24=-114(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 33, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24

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

TOP CHORD 2-3=-265/95, 10-11=-118/295, 11-12=-132/336, 12-13=-132/336, 13-14=-118/295

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 42=121, 24=114.



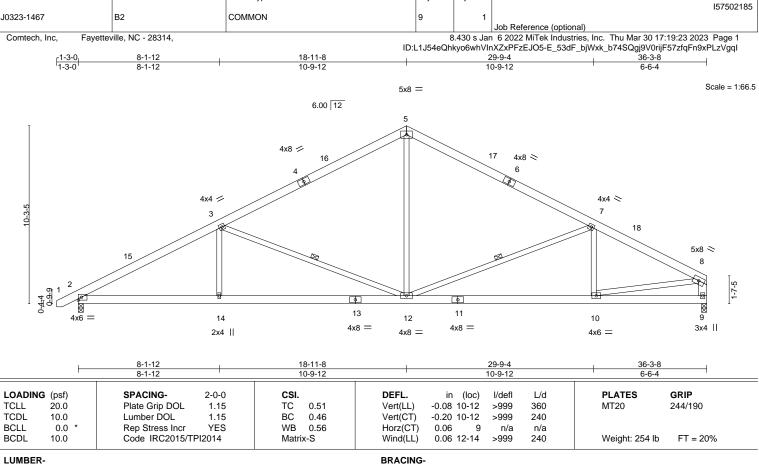
March 31,2023

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

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

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





TOP CHORD

BOT CHORD

WFBS

Qty

Ply

Lot 93 South Creek

LUMBER-

Job

Truss

Truss Type

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

2x4 SP No.2 \*Except\* WFBS 8-9: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=149(LC 12) Max Uplift 2=-106(LC 12), 9=-80(LC 13) Max Grav 2=1512(LC 1), 9=1435(LC 1)

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

2-3=-2573/512, 3-5=-1688/444, 5-7=-1686/453, 7-8=-2102/467, 8-9=-1370/346 TOP CHORD

**BOT CHORD** 2-14=-405/2180, 12-14=-405/2180, 10-12=-340/1830

 $3\text{-}14\text{=}0/394,\ 3\text{-}12\text{=}-913/298,\ 5\text{-}12\text{=}-65/832,\ 7\text{-}12\text{=}-586/228,\ 8\text{-}10\text{=}-322/1719}$ WFBS

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 36-0-12 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=106.



Structural wood sheathing directly applied or 4-8-6 oc purlins,

3-12, 7-12

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

except end verticals.

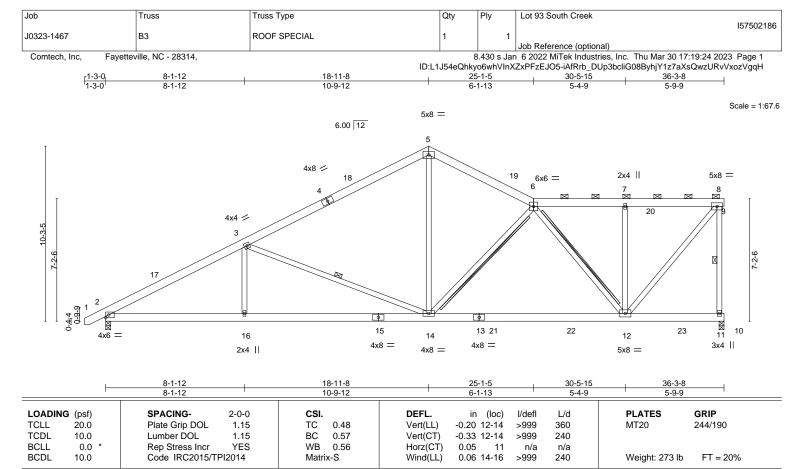
1 Row at midpt

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

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

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





LUMBER-

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

BRACING-

TOP CHORD

BOT CHORD WFBS

Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.

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

1 Row at midpt 8-11. 3-14

T-Brace: 2x4 SPF No.2 - 6-14, 6-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.

(size) 11=0-3-8, 2=0-3-8 Max Horz 2=262(LC 12)

Max Uplift 11=-100(LC 13), 2=-94(LC 12) Max Grav 11=1506(LC 2), 2=1510(LC 1)

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

TOP CHORD  $2\text{-}3\text{--}2573/481,\ 3\text{-}5\text{--}1680/404,\ 5\text{-}6\text{--}1588/423,\ 6\text{-}7\text{--}1079/234,\ 7\text{-}8\text{--}1078/235,\ 6\text{--}1078/235,\ 6\text{--}10$ 

8-11=-1431/362

**BOT CHORD** 2-16=-604/2182, 14-16=-604/2182, 12-14=-402/1604

**WEBS** 3-16=0/390, 3-14=-911/308, 5-14=-86/902, 6-14=-422/157, 6-12=-902/273,

7-12=-374/195, 8-12=-366/1693

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 36-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 30.0psf 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 except (jt=lb)
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 31,2023

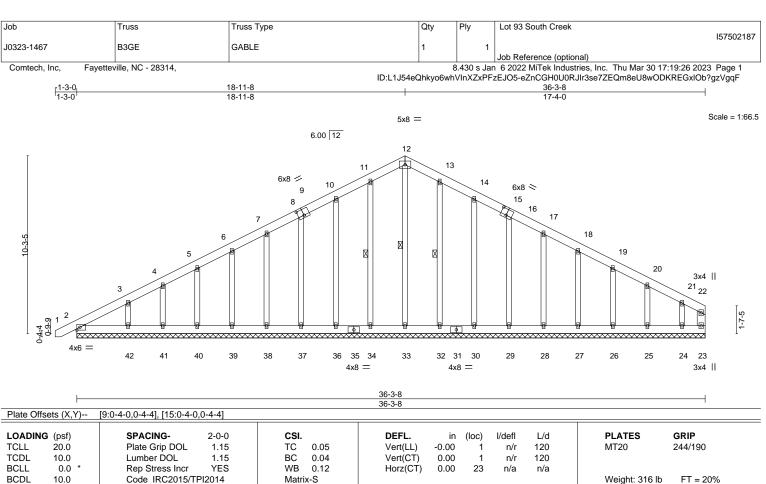


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

BCDL 10.0

LUMBER-TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x6 SP No.1

2x6 SP No.1 WERS **OTHERS** 2x4 SP No.2

All bearings 36-3-8. REACTIONS.

(lb) -Max Horz 2=240(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25

except 42=-121(LC 12), 24=-204(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 23, 33, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28,

27, 26, 25, 24

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

TOP CHORD  $2\text{-}3\text{=-}265/115,\,8\text{-}10\text{=-}100/260,\,10\text{-}11\text{=-}123/312,\,11\text{-}12\text{=-}136/351,\,12\text{-}13\text{=-}136/351,}$ 

13-14=-123/312

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 42=121, 24=204.



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

12-33, 11-34, 13-32

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

except end verticals.

1 Row at midpt

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

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

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



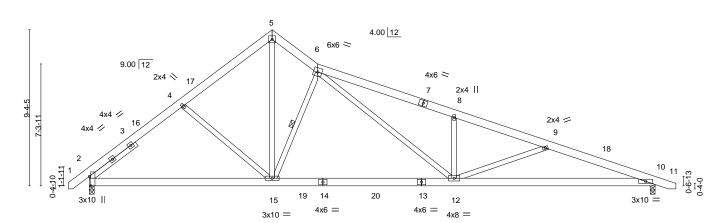
Job Truss Truss Type Qty Ply Lot 93 South Creek 157502188 J0323-1467 C1 **ROOF SPECIAL** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:28 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

5x5 =

ID:L1J54eQhkyo6whVlnXZxPFzEJO5-ayvygy2kY2Z04N01F\_GusZjlhkxUoF8ZO3ti4ZzVgqD 10-11-8 13-8-5 21-10-8 27-4-0 33-11-0 5-4-0 2-8-13 8-2-3 5-5-8 6-7-0

Scale = 1:69.1



10-11-8 21-10-8 33-11-0 10-11-8 10-11-0 12-0-8 Plate Offsets (X Y)-- [2:0-6-13 Edge]

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

Tiato Ollooto (7t, 1)	[E.O O TO, Eugo]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.23 12-15 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.37 12-15 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.06 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 12 >999 240	Weight: 245 lb FT = 20%

LUMBER-

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

SLIDER Left 2x4 SP No.2 3-6-1

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-228(LC 10)

Max Uplift 2=-55(LC 12), 10=-142(LC 9) Max Grav 2=1418(LC 1), 10=1421(LC 1)

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

TOP CHORD 2-4=-1787/384, 4-5=-1524/377, 5-6=-1501/424, 6-8=-2861/619, 8-9=-2823/517,

9-10=-3241/658

**BOT CHORD** 2-15=-173/1390, 12-15=-148/1641, 10-12=-530/3011

**WEBS** 4-15=-281/215, 5-15=-341/1516, 6-15=-1230/368, 6-12=-244/1325, 8-12=-464/228,

9-12=-411/212

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 10-11-8, Exterior(2) 10-11-8 to 13-8-5, Interior(1) 13-8-5 to 34-11-5 zone; 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 30.0psf 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) 2 except (jt=lb) 10=142.



Structural wood sheathing directly applied or 4-0-15 oc purlins.

6-15

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

1 Row at midpt



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502189 J0323-1467 C1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:29 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVlnXZxPFzEJO5-38TKul2MlMhtiWbDohn7OmGz48KqXlJidjcGc?zVgqC

21-10-8

5-7-0

27-4-0

5-5-8

16-3-8

5-4-0

Scale: 3/16"=1

35-2-0 1-3-0

33-11-0

6-7-0



10-11-8

5-4-0

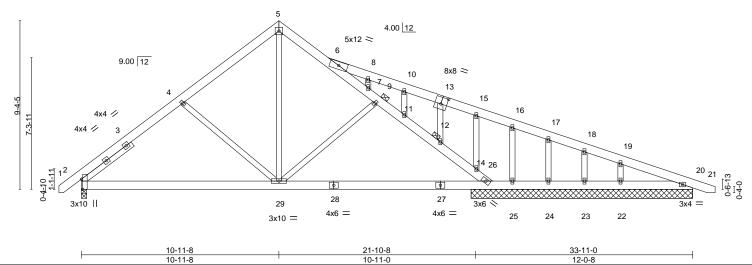


Plate Off	fsets (X,Y)	[2:0-6-13,Edge], [13:0-4-0,0-4-8]			
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.07 2-29 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.14 2-29 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.02 26 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 2-29 >999 240 Weight: 264 lb FT = 20%	

LUMBER-

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

2x4 SP No.2 WFBS **OTHERS** 2x4 SP No.2

SLIDER Left 2x4 SP No.2 3-6-1 **BRACING-**

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

10-0-0 oc bracing: 2-29,26-29.

**JOINTS** 1 Brace at Jt(s): 9, 12

REACTIONS. All bearings 12-3-8 except (jt=length) 2=0-3-8.

Max Horz 2=-310(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 20, 23, 24 except 26=-200(LC 13), 2=-187(LC 12), 22=-110(LC 13),

25=-369(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 20, 23, 24 except 26=1365(LC 1), 2=947(LC 1), 22=311(LC 24)

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

TOP CHORD 2-4=-1061/339, 4-5=-824/322, 5-6=-736/318, 6-7=-838/203, 7-9=-959/307,

9-11=-1019/363, 11-12=-1093/422, 12-14=-1092/431, 14-26=-1220/516

**BOT CHORD**  $2-29 = -218/866, \ 26-29 = -68/786, \ 25-26 = -158/277, \ 24-25 = -158/277, \ 23-24 = -158/277, \ 24-25$ 

22-23=-158/277, 20-22=-158/277

**WEBS** 4-29=-339/294, 5-29=-187/595, 9-29=-285/256

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 23, 24 except (jt=lb) 26=200, 2=187, 22=110, 25=369.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 31,2023

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

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

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



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502190 J0323-1467 C2 **ROOF SPECIAL** 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:31 2023 Page 1 ID:L1J54eQhkyo6whVInXZxPFzEJO5-?Xa5J\_4cqzxbxqlcw6pbTBLGxxzB?cx?515MhuzVgqA 27-4-14 33-11-0

Structural wood sheathing directly applied or 4-1-2 oc purlins.

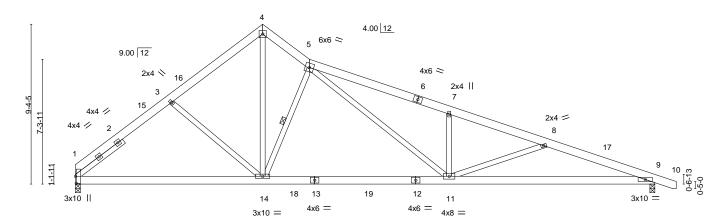
5-14

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

1 Row at midpt

13-8-5 20-0-11 2-8-13 6-6-2

Scale = 1:67.4



	10-11-8	21-10-8	33-11-0
	10-11-8	10-11-0	12-0-8
Plate Offsets (X,Y)	[1:0-5-0,0-0-9]		

. 1010 011	Trace emocratify [The explore]									
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 0.37	Vert(LL) -0.23 11-14 >999 360	MT20 244/190					
TCDL	10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.37 11-14 >999 240						
BCLL	0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.06 9 n/a n/a						
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 11 >999 240	Weight: 241 lb FT = 20%					

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

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

SLIDER Left 2x4 SP No.2 3-6-1

REACTIONS. (size) 1=0-3-8, 9=0-3-8 Max Horz 1=-227(LC 8)

Max Uplift 1=-49(LC 13), 9=-146(LC 9)

Max Grav 1=1349(LC 1), 9=1430(LC 1)

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

TOP CHORD  $1-3=-1791/396,\ 3-4=-1527/387,\ 4-5=-1504/424,\ 5-7=-2863/618,\ 7-8=-2826/515,$ 

10-11-8

5-4-0

5x5 =

8-9=-3244/654

**BOT CHORD** 1-14=-183/1396, 11-14=-154/1645, 9-11=-523/3013

**WEBS** 3-14=-278/220, 4-14=-354/1521, 5-14=-1230/371, 5-11=-242/1324, 7-11=-467/229,

8-11=-410/208

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2) 10-11-8 to 13-8-5, Interior(1) 13-8-5 to 35-0-13 zone; 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 30.0psf 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) 1 except (jt=lb) 9=146.



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

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

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



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502191 J0323-1467 СЗ **ROOF SPECIAL** 2 Job Reference (optional)

5x5 =

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:32 2023 Page 1

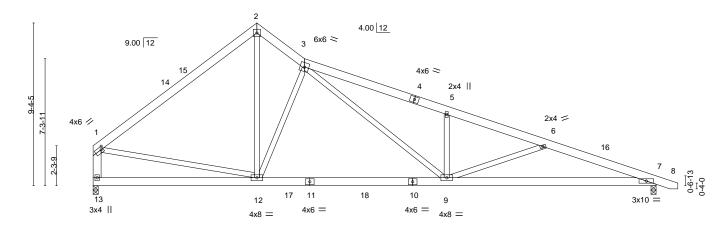
Structural wood sheathing directly applied or 4-2-12 oc purlins,

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

except end verticals.



Scale = 1:66.2



	9-5-0	20-4-0	32-4-8
	9-5-0	10-11-0	12-0-8
Plate Offsets (X,Y) [1:	:0-1-8,0-2-0]		

	, ,	,,			$\overline{}$
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 0.42	Vert(LL) -0.21 9-12 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.34 9-12 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.05 7 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 9 >999 240 Weight: 235 lb FT = 20%	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SP No.2 \*Except\* **WEBS** 

1-13: 2x6 SP No.1 REACTIONS.

(size) 13=0-3-8, 7=0-3-8 Max Horz 13=-224(LC 8)

Max Uplift 13=-59(LC 13), 7=-141(LC 9) Max Grav 13=1279(LC 1), 7=1352(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $1-2 = -1408/304, \ 2-3 = -1276/370, \ 3-5 = -2653/576, \ 5-6 = -2616/473, \ 6-7 = -3043/617, \ 3-7 = -304/$ 

1-13=-1195/297

**BOT CHORD** 12-13=-104/327, 9-12=-117/1438, 7-9=-493/2825

**WEBS** 2-12=-173/1182, 3-12=-1128/314, 3-9=-244/1337, 5-9=-467/231, 6-9=-420/215,

1-12=0/893

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-5-0, Exterior(2) 9-5-0 to 12-1-13, Interior(1) 12-1-13 to 33-4-13 zone; 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 30.0psf 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) 13 except (jt=lb) 7=141.





Job Truss Truss Type Qty Ply Lot 93 South Creek 157502192 J0323-1467 C4 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:33 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVlnXZxPFzEJO5-xvirkg5tMaBJB8u?1Xs3ZcQdvlgHTT9IYLaTlmzVgq8 7-8-11 15-0-14 21-7-0 22-10-0 1-3-0 6-4-6 6-6-2 3x4 || 9.00 12 Scale = 1:49.2 4.00 12 6x6 > 2 4x6 < 3 2x4 || 2x4 = 10 12 13 9 8 3x6 = 4x6 =4x6 = 4x8 = 3x4 = 9-6-8 21-7-0 9-6-8 12-0-8 Plate Offsets (X,Y)--[6:Edge,0-0-12] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP >999 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.12 6-8 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.47 -0.27 6-8 >931 240 WB 0.69 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.02 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.04 6-8 >999 240 Weight: 165 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 \*Except\* **WEBS** 1-10: 2x6 SP No.1

REACTIONS.

(size) 10=0-3-8, 6=0-3-8 Max Horz 10=-255(LC 13) Max Uplift 10=-135(LC 13), 6=-98(LC 9) Max Grav 10=884(LC 2), 6=921(LC 1)

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

TOP CHORD 2-4=-1341/179, 4-5=-1307/77, 5-6=-1786/238

**BOT CHORD** 8-10=-41/275, 6-8=-141/1644

**WEBS** 4-8=-459/226, 5-8=-479/237, 2-10=-869/271, 2-8=-246/1357

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 1-4-7, Interior(1) 1-4-7 to 22-7-5 zone; 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 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 10=135.



Structural wood sheathing directly applied or 5-6-14 oc purlins,

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

except end verticals.

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

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

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

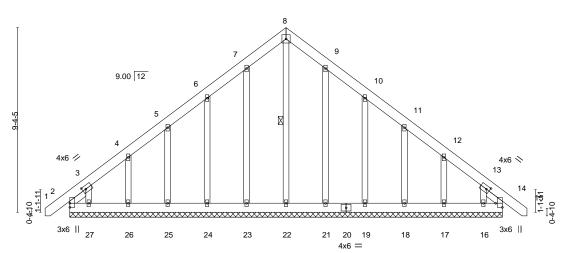


Job Truss Truss Type Qty Ply Lot 93 South Creek 157502193 J0323-1467 D1GE COMMON SUPPORTED GAB Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:35 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:L1J54eQhkyo6whVInXZxPFzEJO5-tlqb8M77uCR1QR2N9yuXe1W15ZSdxWPb?f4aqfzVgq6 10-11-8 21-11-0 10-11-8 10-11-8

> Scale = 1:58.4 5x5 =



21-11-0 21-11-0

Plate Offsets (X,Y)--[3:0-2-1,0-2-0], [13:0-2-1,0-2-0], [14:Edge,0-4-2] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) -0.00 14 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 14 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.13 Horz(CT) 0.00 14 n/a n/a

LUMBER-BRACING-

TOP CHORD 2x6 SP No 1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No 2 OTHERS WFBS 1 Row at midpt

SLIDER Left 2x4 SP No.2 1-0-15, Right 2x4 SP No.2 1-0-15

Code IRC2015/TPI2014

REACTIONS. All bearings 21-11-0.

10.0

(lb) -Max Horz 2=-272(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 23, 25, 21, 18, 14 except 2=-144(LC 8), 24=-109(LC 12), 26=-107(LC 12), 27=-209(LC 12), 19=-111(LC 13), 17=-106(LC 13), 16=-185(LC 13)

Matrix-S

Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 14 except 2=264(LC 21)

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

TOP CHORD 2-3=-370/245, 13-14=-304/202

### NOTES-

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 25, 21, 18, 14 except (jt=lb) 2=144, 24=109, 26=107, 27=209, 19=111, 17=106, 16=185.



Weight: 198 lb

FT = 20%

March 31,2023

Job Truss Truss Type Qty Lot 93 South Creek 157502194 GABLE VC1 J0323-1467 Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 17:27:13 2023 Page 1
ID:L1J54eQhkyo6whVInXZxPFzEJO5-Tef4a49XPd4WEflpw3aHe7hpSMr34gbg8zim7AzVW9y Comtech, Inc., Fayetteville, NC 28309 14-7-1 4-7-1 10-0-0 Scale = 1:28.0 3x4 || 4.00 12 2x4 || 2x4 || 5 3x4 = 2x4 || 2x4 || 3x4 II

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/d **PLATES** GRIP in (loc) I/defI Plate Grip DOL Vert(LL) TCLL TC 0.29 244/190 20.0 1.15 n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.19 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 54 lb FT = 20%

**BOT CHORD** 

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.1 \*Except\* **WEBS** 2-7: 2x4 SP No.3

2x4 SP No.2 **OTHERS** 

REACTIONS. All bearings 14-7-1.

(lb) - Max Horz 1=147(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=451(LC 1), 7=298(LC 1)

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

**WEBS** 3-6=-341/215

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 14-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.



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

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

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



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502195 J0323-1467 VC2 **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:37 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVInXZxPFzEJO5-qgyMZ19NQpikglCmGNw?jSbLlM7zPRGuTzZhuXzVgq4 Scale = 1:23.2 3x4 || 4.00 12 2x4 || 2x4 || 2 <sup>5</sup> 3x4 || 3x4 = 2x4 || 2x4 ||

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	I/defI	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a	-	n/a	999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 43 lb FT = 20%

LUMBER-**BRACING-**

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

2x4 SP No.2 WFBS 2x4 SP No.2 **OTHERS** 

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

except end verticals.

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

REACTIONS. All bearings 11-7-1.

(lb) -Max Horz 1=115(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=283(LC 1), 6=357(LC 1)

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

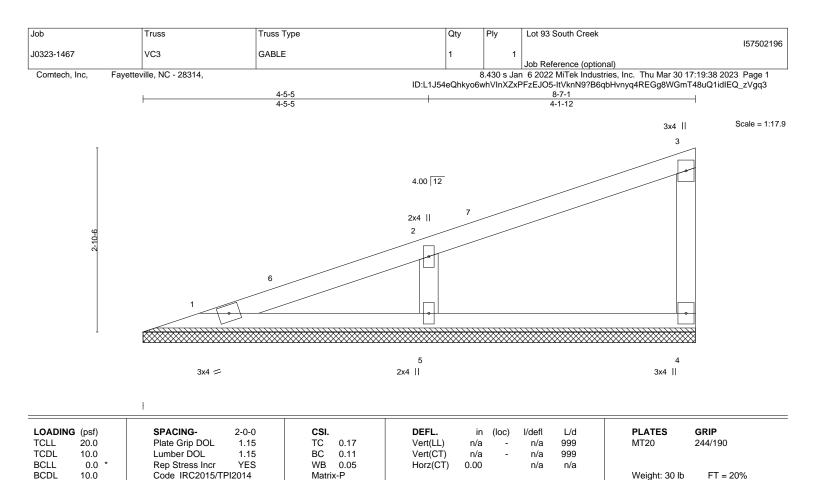
**WEBS** 3-6=-268/229

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 11-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.







**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.1 \*Except\* **WEBS** 2-5: 2x4 SP No.2

REACTIONS.

(size) 1=8-7-1, 4=8-7-1, 5=8-7-1 Max Horz 1=82(LC 8)

Max Uplift 4=-19(LC 8), 5=-58(LC 8)

Max Grav 1=101(LC 1), 4=124(LC 1), 5=378(LC 1)

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

**WEBS** 2-5=-284/265

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 8-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.



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

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

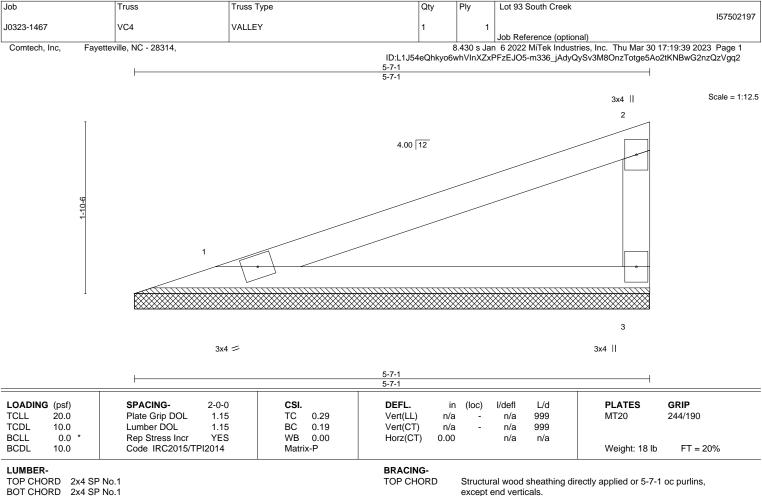
except end verticals.

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

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

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





**BOT CHORD** 

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

**BOT CHORD** 2x4 SP No.1 2x4 SP No.1

(size) 1=5-7-1, 3=5-7-1

Max Horz 1=49(LC 8) Max Uplift 1=-11(LC 8), 3=-28(LC 8)

Max Grav 1=182(LC 1), 3=182(LC 1)

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

### NOTES-

WFBS REACTIONS.

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Job Truss Truss Type Qty Ply Lot 93 South Creek 157502198 J0323-1467 VC5 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:40 2023 Page 1 Comtech, Inc. ID:L1J54eQhkyo6whVlnXZxPFzEJO5-EFdUC3BGjk4JXDxLyVUiL5Dtza9vcndK9wnLVszVgq1 Scale = 1:7.0 4x8 = 2 4.00 12 3

3x4 =

2-7-1

Plate Off	sets (X,Y)	[2:0-11-7,0-1-12]			_
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 0.03	Vert(LL) n/a - n/a 999   MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Weight: 7 lb FT = 20%	

**BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.1 WFBS

REACTIONS. (size) 1=2-7-1, 3=2-7-1

Max Horz 1=17(LC 8)

Max Uplift 1=-4(LC 8), 3=-9(LC 8)

Max Grav 1=62(LC 1), 3=62(LC 1)

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

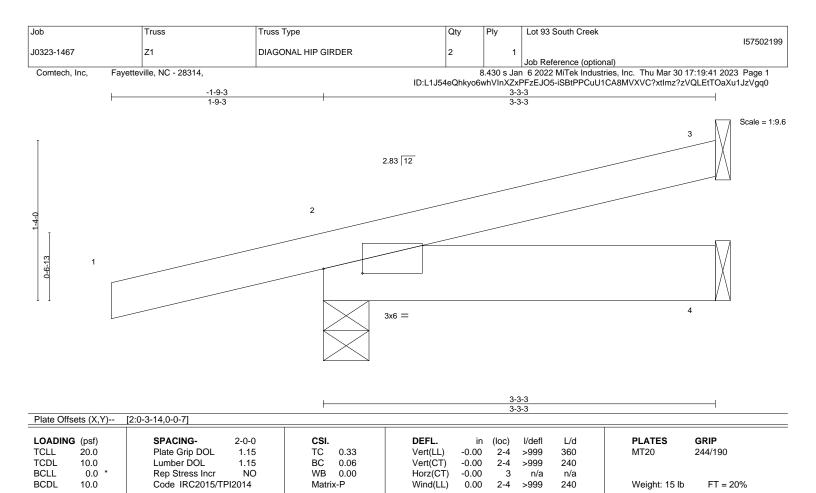
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf 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) 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 2-7-1 oc purlins,

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

except end verticals.



LUMBER-

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

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=42(LC 8)

Max Uplift 3=-27(LC 12), 2=-136(LC 8), 4=-16(LC 8) Max Grav 3=52(LC 1), 2=276(LC 1), 4=60(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; porch 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 30.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=136.

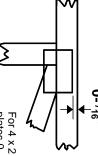


## Symbols

# PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

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

### PLATE SIZE



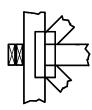
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



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

### **BEARING**



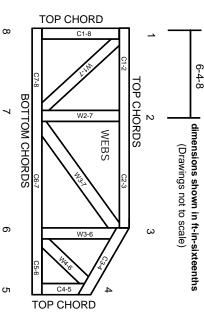
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

## Industry Standards:

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

DSB-89: ANSI/TPI1:

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



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

# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

φ.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.