

RE: J1120-5310

Watermark/Lot 65 South Creek/Harnett

Trenco

818 Soundside Rd Edenton, NC 27932

> Date 11/12/2020 11/12/2020 11/12/2020 11/12/2020 11/12/2020

Site Information:

Customer: Project Name: J1120-5310

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name
1	E15007716	A1	11/12/2020	21	E15007736	VB3
2	E15007717	A2	11/12/2020	22	E15007737	VB4
3	E15007718	A3	11/12/2020	23	E15007738	VB5
4	E15007719	A3GE	11/12/2020	24	E15007739	VC1
5	E15007720	A4	11/12/2020	25	E15007740	VC2
6	E15007721	A5	11/12/2020			
7	E15007722	A5A	11/12/2020			
8	E15007723	A5GE	11/12/2020			
9	E15007724	B1	11/12/2020			
10	E15007725	B1GE	11/12/2020			
11	E15007726	B2	11/12/2020			
12	E15007727	B3	11/12/2020			
13	E15007728	C1GE	11/12/2020			
14	E15007729	C2	11/12/2020			
15	E15007730	C3GDR	11/12/2020			
16	E15007731	D1	11/12/2020			
17	E15007732	D1GE	11/12/2020			
18	E15007733	M1GE	11/12/2020			
19	E15007734	VB1	11/12/2020			
20	E15007735	VB2	11/12/2020			

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2020.

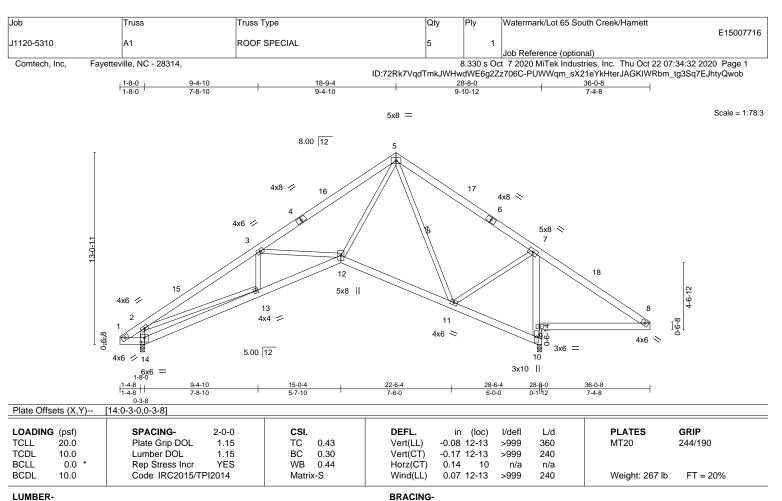
North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



November 12, 2020

1 of 1



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) 14=0-3-8, 10=0-3-8 Max Horz 14=300(LC 9)

Max Uplift 14=-77(LC 12), 10=-90(LC 13)

Max Grav 14=1114(LC 1), 10=1770(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-329/49, 2-3=-2337/285, 3-5=-1700/179, 5-7=-636/159, 7-8=-350/573

BOT CHORD 1-14=-58/355, 13-14=-328/497, 12-13=-315/2227, 11-12=-28/775, 10-11=-350/382,

9-10=-1613/618, 7-9=-1511/474, 8-9=-362/365

WEBS 2-14=-1056/312, 2-13=-83/1672, 3-12=-755/393, 5-12=-72/1513, 5-11=-717/129,

7-11=-21/818

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 36-0-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10.



Structural wood sheathing directly applied or 5-0-15 oc purlins.

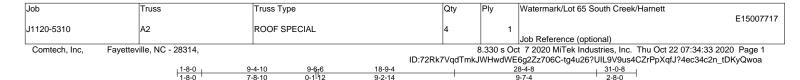
Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

5-11

5-11-0 oc bracing: 9-10

1 Row at midpt





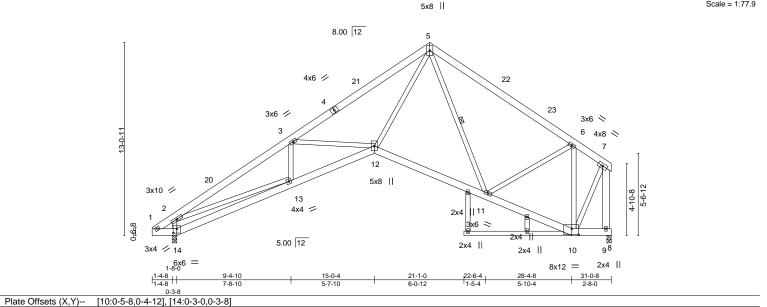
Scale = 1:77.9

Structural wood sheathing directly applied or 4-6-1 oc purlins,

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

except end verticals.

1 Row at midpt



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) -0.11 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.22 12-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.19 9 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 12-13 >999 240	Weight: 270 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* **WEBS**

7-9: 2x6 SP No.1

REACTIONS. (size) 14=0-3-8, 9=0-3-8 Max Horz 14=296(LC 9)

Max Uplift 14=-70(LC 12), 9=-46(LC 12) Max Grav 14=1298(LC 1), 9=1164(LC 1)

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

TOP CHORD 1-2=-374/53, 2-3=-2805/585, 3-5=-2297/488, 5-6=-1204/347, 6-7=-494/117,

7-9=-1117/252

BOT CHORD $1 - 14 = -66/402,\ 13 - 14 = -320/478,\ 12 - 13 = -567/2588,\ 11 - 12 = -102/1084,\ 10 - 11 = -144/521$ WEBS 2-13=-356/2070, 2-14=-1213/431, 6-10=-1081/366, 7-10=-298/1049, 5-12=-248/1798,

5-11=-385/123, 6-11=-4/533, 3-12=-639/318

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 30-8-4 zone; cantilever 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9.



October 22,2020



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007718 АЗ COMMON 11 J1120-5310 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:33 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-tg4u26?UIL9V9us4CZrPpXqeK?0Wc5lc2n_tDKyQwoa 9-8-13 28-8-0 9-8-13 9-0-7 9-10-12 Scale = 1:79.1

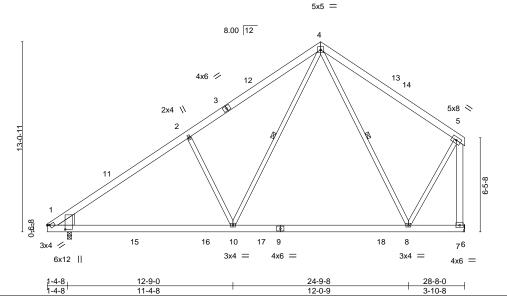


Plate Offsets (X,Y)--[1:0-1-8,0-0-13], [1:0-3-8,1-2-11] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.55 Vert(LL) -0.16 8-10 >999 360 MT20 244/190 TCDL вс 0.60 10.0 Lumber DOL 1.15 Vert(CT) -0.31 1-10 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.54 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) >999 240 Weight: 227 lb FT = 20% 0.05 1-10

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

5-7: 2x6 SP No.1

WEDGE

Left: 2x10 SP No.1

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

Max Horz 1=294(LC 9)

Max Uplift 7=-69(LC 12), 1=-53(LC 12) Max Grav 7=1247(LC 19), 1=1245(LC 19)

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

1-2=-1652/292, 2-4=-1497/406, 4-5=-682/221, 5-7=-1314/232 TOP CHORD

BOT CHORD 1-10=-323/1445, 8-10=-84/696

WEBS 2-10=-624/363, 4-10=-191/1162, 4-8=-491/132, 5-8=0/932

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-5 to 4-9-1, Interior(1) 4-9-1 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 28-3-12 zone; cantilever 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Refer to girder(s) for truss to truss connections. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1.



Structural wood sheathing directly applied or 5-7-0 oc purlins,

4-10, 4-8

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

except end verticals.

1 Row at midpt



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007719 J1120-5310 A3GE GABLE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:35 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-p3CeSo1lqyPCPC?SJzttuyw6dor744YvW4TzlCyQwoY 18-9-4 28-8-0 18-9-4 9-10-12 Scale = 1:78.0 5x5 = 8.00 12 11 12 10 13 4x6 🖊 15 8-9-0 3x4 30 29 28 26 25 20

LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d **PLATES** GRIP in (loc) TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.02 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.20 Horz(CT) 0.00 17 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 305 lb FT = 20%

28-8-0

LUMBER-

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

BRACING-

TOP CHORD

4x6 =

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. WFBS

T-Brace: 2x4 SPF No.2 - 11-22, 10-23, 9-25, 8-26,

12-21, 13-20, 14-19

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. All bearings 28-8-0.

(lb) -Max Horz 1=419(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 30, 21, 19, 18 except 1=-139(LC 10), 31=-140(LC 12), 20=-105(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 17, 23, 25, 26, 27, 28, 29, 30,

21, 20, 19, 18 except 22=257(LC 13), 31=252(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD $1-2=-473/359,\ 2-3=-362/307,\ 3-4=-308/284,\ 4-5=-265/257,\ 8-9=-191/256,$ 9-10=-211/305, 10-11=-244/318, 11-12=-244/303, 12-13=-211/258

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-9-4, Exterior(2) 4-9-4 to 18-9-4, Corner(3) 18-9-4 to 23-2-1, Exterior(2) 23-2-1 to 28-3-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 30, 21, 19, 18 except (jt=lb) 1=139, 31=140, 20=105.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF AN INDIVIDUAL SECTION OF THIS AND INCLUDED WILLIAM SECTION OF THE SECTION OF THI fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007720 J1120-5310 A4 COMMON 5 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:36 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-HFl0g81NbGX31MaethO6Q9SAnC_DpNL2lkCXqfyQwoX 7-6-14 13-9-4 18-9-4 23-9-4 27-8-0 7-6-14 6-2-6 5-0-0 5-0-0 3-10-12

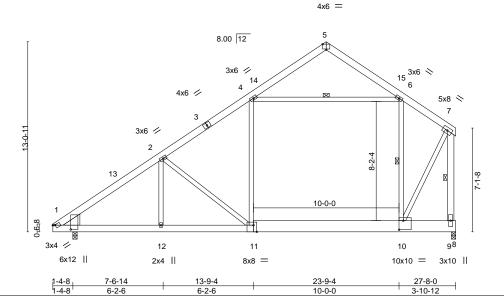


Plate Offsets (X,Y)--[1:0-3-8,1-2-11], [1:0-1-8,0-0-13], [5:0-3-0,Edge], [10:0-3-8,0-7-8], [11:0-2-12,Edge] LOADING (psf) SPACING-2-0-0 DEFL in (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.48 Vert(LL) -0.27 11-12 >999 360 MT20 244/190 TCDL вс 10.0 Lumber DOL 1.15 0.86 Vert(CT) -0.51 11-12 >632 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.87 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.27 11-12 >999 240 Weight: 253 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

8-11: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

7-9: 2x6 SP No.1

WEDGE

Left: 2x10 SP No.1

REACTIONS. (size) 9=0-3-8, 1=0-3-8

Max Horz 1=293(LC 9)

Max Uplift 9=-78(LC 12), 1=-47(LC 12) Max Grav 9=1329(LC 19), 1=1164(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-2=-1770/275, 2-4=-1125/243, 4-5=-279/133, 5-6=-378/153, 6-7=-1020/220,

7-9=-2288/429

BOT CHORD 1-12=-360/1534, 11-12=-359/1532, 10-11=-153/914

WEBS 4-11=0/347, 7-10=-339/2030, 4-6=-697/220, 2-11=-822/274, 2-12=0/425

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-5 to 4-9-1, Interior(1) 4-9-1 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 27-3-12 zone; cantilever 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.
- * 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) 9, 1.



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

7-9, 6-10, 4-6

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

except end verticals.

1 Row at midpt

Scale = 1:79.1

October 22,2020



818 Soundside Road

Edenton, NC 27932

Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007721 J1120-5310 A5 COMMON Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:36 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-HFl0g81NbGX31MaethO6Q9SD1C3ppSp2lkCXqfyQwoX 7-6-14 13-9-4 18-9-4 23-9-4 27-8-0

5-0-0

5-0-0

4x6 =

9-4-12

except end verticals.

1 Row at midpt

3-10-12

3-10-12

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

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

4-12, 6-10, 4-6

Scale = 1:79.1

6-2-6

7-6-14

5 8.00 12 16 ^{3x6} ≈ 3x6 // 15 6 4 4x6 / 4x8 ≫ 2x4 💸 8-2-4 10-0-0 17 18 11 / 3x6 / 98 12 10 6x12 || 8x8 8x8 3x10 || 1-4-8 1-4-8 13-9-4 14-4₋8 0-7-4 23-9-4

[1:0-6-8,0-0-13], [5:0-3	3-0,Edge], [10:0-3-8,0-4-12	2], [12:0-2-12,0-3-8	3]				
3- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
DOL 1.15	TC 0.27	Vert(LL)	-0.17 1-12	>957	360	MT20	244/190
OOL 1.15	BC 0.56	Vert(CT)	-0.36 1-12	>463	240		
ss Incr YES	WB 0.52	Horz(CT)	0.01	n/a	n/a		
C2015/TPI2014	Matrix-S	Wind(LL)	0.15 1-12	>999	240	Weight: 246 lb	FT = 20%
(G- 2-0-0 p DOL 1.15 DOL 1.15	G- 2-0-0 CSI. p DOL 1.15 TC 0.27 DOL 1.15 BC 0.56 ss Incr YES WB 0.52	G- 2-0-0 CSI. DEFL. p DOL 1.15 TC 0.27 Vert(LL) DOL 1.15 BC 0.56 Vert(CT) ss Incr YES WB 0.52 Horz(CT)	p DOL 1.15 TC 0.27 Vert(LL) -0.17 1.12 DOL 1.15 BC 0.56 Vert(CT) -0.36 1-12 ss Incr YES WB 0.52 Horz(CT) 0.01 9	G- 2-0-0 CSI. DEFL. in (loc) l/defl p DOL 1.15 TC 0.27 Vert(LL) -0.17 1-12 >957 DOL 1.15 BC 0.56 Vert(CT) -0.36 1-12 >463 ss Incr YES WB 0.52 Horz(CT) 0.01 9 n/a	G- 2-0-0 CSI. DEFL. in (loc) l/defl L/d p DOL 1.15 TC 0.27 Vert(LL) -0.17 1-12 >957 360 DOL 1.15 BC 0.56 Vert(CT) -0.36 1-12 >463 240 ss Incr YES WB 0.52 Horz(CT) 0.01 9 n/a n/a	G- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES p DOL 1.15 TC 0.27 Vert(LL) -0.17 1-12 >957 360 MT20 DOL 1.15 BC 0.56 Vert(CT) -0.36 1-12 >463 240 ss Incr YES WB 0.52 Horz(CT) 0.01 9 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x6 SP No.1 *Except*

8-12: 2x10 SP No.1

WEBS 2x4 SP No.2 *Except*

7-9: 2x6 SP No.1

WEDGE

Left: 2x10 SP No.1

REACTIONS. (size) 9=0-3-8, 1=0-3-8, 11=0-3-8

Max Horz 1=293(LC 9)

Max Uplift 9=-78(LC 12), 1=-47(LC 12), 11=REL

Max Grav 9=796(LC 20), 1=688(LC 20), 11=1320(LC 19)

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

TOP CHORD 1-2=-807/291, 2-4=-542/236, 4-5=-350/132, 5-6=-346/152, 6-7=-368/212, 7-9=-778/414 **BOT CHORD** 1-12=-373/597, 11-12=-169/383, 10-11=-147/267

WEBS 4-12=-377/118, 6-10=-324/156, 7-10=-328/577, 2-12=-491/297

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-5 to 4-9-1, Interior(1) 4-9-1 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 27-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

12-4-12

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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) 9, 1.
- 6) "\" indicates Released bearing: allow for upward movement at joint(s) 11.





Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007722 J1120-5310 A5A COMMON Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:37 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-ISJPtU2?MafweV9rROvLzN?OicPJYwHBzOy4N5yQwoW 7-6-14 13-9-4 18-9-4 <u>23-9</u>-4 27-8-0 7-6-14 6-2-6 5-0-0 5-0-0 3-10-12

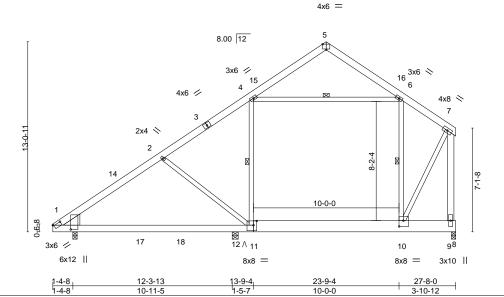


Plate Offsets (X,Y)--[1:0-3-8,1-2-11], [1:0-6-8,0-0-13], [5:0-3-0,Edge], [10:0-3-8,0-4-12], [11:0-2-12,0-3-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.13 1-12 >999 360 MT20 244/190 TCDL вс 10.0 Lumber DOL 1.15 0.55 Vert(CT) -0.24 1-12 >602 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.50 Horz(CT) 0.01 9 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.11 12 >999 240 Weight: 246 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

8-11: 2x10 SP No.1 **WEBS**

2x4 SP No.2 *Except*

7-9: 2x6 SP No.1

WEDGE

Left: 2x10 SP No.1

REACTIONS. (size) 9=0-3-8, 1=0-3-8, 12=0-4-15

Max Horz 1=293(LC 9)

Max Uplift 9=-78(LC 12), 1=-47(LC 12), 12=REL

Max Grav 9=951(LC 20), 1=743(LC 20), 12=1027(LC 19)

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

TOP CHORD 1-2=-929/288, 2-4=-667/233, 4-5=-350/132, 5-6=-347/152, 6-7=-496/211,

7-9=-1059/410

BOT CHORD 1-12=-371/731, 11-12=-365/683, 10-11=-147/387

WEBS 4-11=-308/118, 6-10=-255/155, 7-10=-324/840, 2-11=-477/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-5 to 4-9-1, Interior(1) 4-9-1 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 27-3-12 zone; cantilever 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.
- * 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) 9, 1.
- 6) "/\" indicates Released bearing: allow for upward movement at joint(s) 12.



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

4-11, 6-10, 4-6

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

except end verticals.

1 Row at midpt

Scale = 1:79.1

MARNING - 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

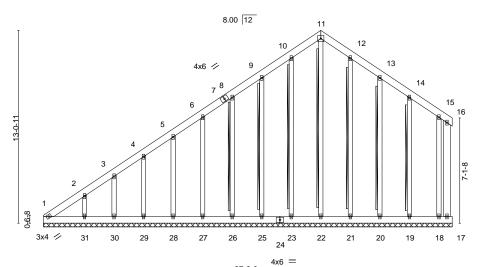
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal in-juny and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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 Watermark/Lot 65 South Creek/Harnett E15007723 J1120-5310 A5GE GABLE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:38 2020 Page 1 Comtech, Inc.

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-Detn5q3d7tnnGfk1_6QaWaYdx0tqHSiLC2hevXyQwoV 18-9-4 27-8-0 18-9-4 8-10-12

> Scale = 1:78.0 5x5 =



27-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defI L/d **PLATES** GRIP in (loc) TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.02 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.17 Horz(CT) 0.00 17 n/a n/a

Matrix-S

27-8-0

LUMBER-

Code IRC2015/TPI2014

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

10.0

OTHERS 2x4 SP No.2 BRACING-

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. WFBS

T-Brace: 2x4 SPF No.2 - 11-22, 10-23, 9-25, 8-26,

12-21, 13-20, 14-19

Weight: 302 lb

FT = 20%

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. All bearings 27-8-0.

(lb) -Max Horz 1=436(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 30, 21, 19, 18 except 1=-133(LC 10), 31=-141(LC 12), 20=-104(LC 13) Max Grav All reactions 250 lb or less at joint(s) 17, 22, 23, 25, 26, 27, 28, 29,

30, 21, 20, 19, 18 except 1=261(LC 12), 31=252(LC 19)

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

TOP CHORD $1\hbox{-}2\hbox{--}494/349, 2\hbox{-}3\hbox{--}383/298, 3\hbox{-}4\hbox{--}312/274, 4\hbox{-}5\hbox{--}263/247, 9\hbox{-}10\hbox{--}182/268,}$ 10-11=-218/284, 11-12=-218/269

NOTES-

FORCES.

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-9-4, Exterior(2) 4-9-4 to 18-9-4, Corner(3) 18-9-4 to 23-2-1, Exterior(2) 23-2-1 to 27-3-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 30, 21, 19, 18 except (jt=lb) 1=133, 31=141, 20=104.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 22,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with will leave connectors. This based only upon parameters shown, and is not an individual component, now 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/TP/1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Edenton, NC 27932

Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007724 ATTIC J1120-5310 B1 Job Reference (optional)

4-10-4

17-4-8

4-10-4

Fayetteville, NC - 28314, Comtech, Inc.

5-11-15 5-11-15

11-1-12

5-1-13

12-6-4 1-4-8

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:40 2020 Page 1 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-A1?XWV4tfV1VVzuQ6XT2b?dp0pM1IA2egMAkzQyQwoT 22-2-12 28-9-1 34-9-0

6x8 =

5-11-15 Scale = 1:82.2

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

5-7

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

1 Row at midpt

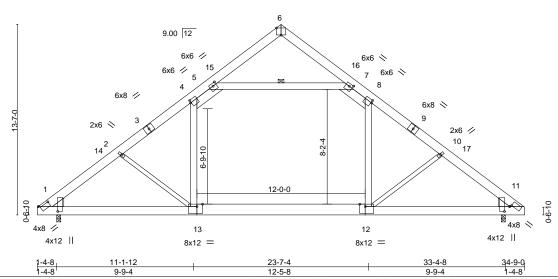


Plate Offsets (X,Y)--[1:0-4-4,1-4-8], [1:0-8-13,0-1-10], [4:0-0-11,0-2-4], [5:0-3-0,0-2-4], [6:0-4-0,Edge], [7:0-3-0,0-2-4], [8:0-0-11,0-2-4], [11:0-4-4,0-4-7], [11:0-0-13,0-1-10], [12:0-4-12,Edge], [13:0-4-12,Edge]

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 0.65	Vert(LL) -0.19 12-13 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.30 12-13 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.04 11 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 1-13 >999 240	Weight: 348 lb FT = 20%

BRACING-

WEBS

TOP CHORD BOT CHORD

LUMBER-

TOP CHORD 2x8 SP No.1 BOT CHORD 2x8 SP No.1 *Except*

12-13: 2x10 SP No.1 **WEBS** 2x6 SP No.1 *Except*

2-13,10-12: 2x4 SP No.2, 4-5,7-8: 2x8 SP No.1

WEDGE

Left: 2x8 SP No.1, Right: 2x8 SP No.1

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

Max Horz 1=-309(LC 8)

Max Grav 1=1919(LC 20), 11=1919(LC 21)

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

TOP CHORD 1-2=-2815/41, 2-4=-2633/19, 4-5=-1908/126, 5-6=-275/148, 6-7=-275/148,

7-8=-1908/126, 8-10=-2634/19, 10-11=-2815/41 **BOT CHORD** 1-13=0/2342, 12-13=0/2091, 11-12=0/2123

WEBS 5-7=-1963/70, 4-13=0/1025, 8-12=0/1025, 2-13=-348/230, 10-12=-348/230

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-1 to 5-0-14, Interior(1) 5-0-14 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 34-0-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-13, 8-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- 7) Attic room checked for L/360 deflection.



MARNING - 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 MTI-sky 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from Trus Plate persons. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007725 J1120-5310 B1GE **GABLE** Job Reference (optional)

6x8 =

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:41 2020 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-eDZvjr5WPo9M77TcgE_H7DA5SDryUkWnu0wlWsyQwoS 5-11-15 5-11-15 11-1-12 17-4-8 22-2-12 23-7-4 1-4-8 34-9-0 5-1-13 4-10-4 4-10-4 5-1-13 5-11-15

Scale = 1:81.6

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

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

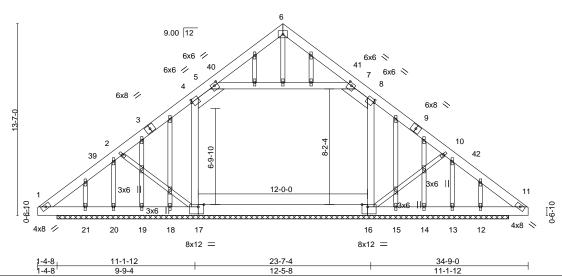


Plate Offsets (X,Y)--[4:0-0-11,0-2-4], [5:0-3-0,0-2-4], [7:0-3-0,0-2-4], [8:0-0-11,0-2-4], [16:0-4-12,Edge], [17:0-4-12,Edge]

LOADING	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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1	.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.49	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	14	Matri	x-S						Weight: 402 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x8 SP No 1

BOT CHORD 2x8 SP No.1 *Except*

16-17: 2x10 SP No.1 **WEBS** 2x6 SP No.1 *Except*

2-17,10-16: 2x4 SP No.2, 4-5,7-8: 2x8 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 32-0-0.

Max Horz 21=-387(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 21, 12 except 17=-362(LC 12),

16=-349(LC 13), 18=-443(LC 18), 20=-341(LC 24), 15=-443(LC 18), 13=-341(LC

Max Grav All reactions 250 lb or less at joint(s) 19, 20, 14, 13 except 17=1605(LC

20), 16=1590(LC 21), 21=552(LC 24), 12=552(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-96/263, 2-4=-138/504, 5-6=-387/157, 6-7=-387/157, 8-10=-125/490

BOT CHORD 20-21=-338/285, 19-20=-338/285, 18-19=-338/285, 17-18=-336/287, 16-17=-440/379

WEBS 5-7=0/562, 4-17=-805/350, 8-16=-802/341, 2-17=-321/284, 10-16=-321/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-2-1 to 4-6-13, Interior(1) 4-6-13 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 34-6-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 12 except (jt=lb) 17=362, 16=349, 18=443, 20=341, 15=443, 13=341.
- 9) Non Standard bearing condition. Review required.
- 10) Attic room checked for L/360 deflection.



October 22,2020

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF AN INDIVIDUAL SECTION OF THIS AND INCLUDED WILLIAM SECTION OF THE SECTION OF THI Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007726 B2 ATTIC J1120-5310 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:42 2020 Page 1 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-6P7IwB68A6HDIH2oDyVWgQiAnd2ZD4Gx7gfr2IyQwoR

11-1-12 12-6-4 1-4-8 17-4-8 22-2-12 28-9-1 33-4-8 4-10-4 5-1-13 4-10-4 5-1-13

> Scale = 1:82.2 6x8 =

> > Structural wood sheathing directly applied or 5-0-15 oc purlins.

5-7

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

1 Row at midpt

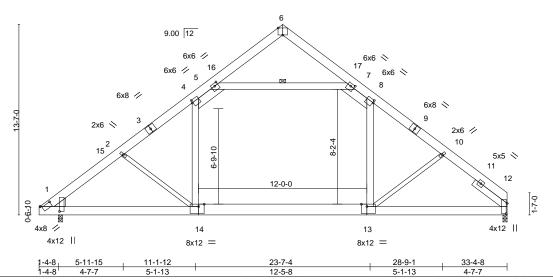


Plate Offsets (X,Y)--[1:0-4-4,1-4-8], [1:0-8-13,0-1-10], [4:0-0-11,0-2-4], [5:0-3-0,0-2-4], [6:0-4-0,Edge], [7:0-3-0,0-2-4], [8:0-0-11,0-2-4], [12:0-8-11,0-0-13], [13:0-4-12,Edge],

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/e	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.19 13-14 >999 366	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.29 13-14 >999 24)
BCLL	0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.04 12 n/a n/a	a l
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 1-14 >999 24	Weight: 345 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x8 SP No.1 BOT CHORD 2x8 SP No.1 *Except*

13-14: 2x10 SP No.1 **WEBS** 2x6 SP No.1 *Except*

2-14,10-13: 2x4 SP No.2, 4-5,7-8: 2x8 SP No.1

WEDGE Left: 2x8 SP No.1

Right 2x6 SP No.1 -x 2-11-6 SLIDER

REACTIONS. (size) 1=0-3-8, 12=0-3-8

Max Horz 1=-309(LC 8) Max Grav 1=1879(LC 20), 12=1902(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $1\hbox{-}2\hbox{--}2742/41, 2\hbox{-}4\hbox{--}2551/20, 4\hbox{-}5\hbox{--}1831/127, 5\hbox{-}6\hbox{--}260/148, 6\hbox{-}7\hbox{--}286/147,}$

7-8=-1859/127, 8-10=-2477/19, 10-12=-2570/45 **BOT CHORD** 1-14=0/2292, 13-14=0/2017, 12-13=0/1799

WEBS 5-7=-1891/73, 4-14=0/1017, 8-13=0/895, 2-14=-375/229, 10-13=-122/280

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-1 to 5-0-14, Interior(1) 5-0-14 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 33-4-8 zone; cantilever 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-14
- 7) Attic room checked for L/360 deflection.



MARNING - 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 MTReks connectors. This design is based only upon parameters shown, and is for an individual building ocomponent, 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/THI Quality Criteria, DSB-89 and BCSI Building Component Sector Members and Possible Sector Truss Plate betties 2570 Crisis Historyca. Suits 232 Wolderf, MD 200610. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Watermark/Lot 65 South Creek/Harnett E15007727 ВЗ ATTIC J1120-5310 2 Job Reference (optional)

6x8 =

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:43 2020 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-achg8X7mxQP4MQc?nf0lDeFMx1QzycN4MKPPalyQwoQ 17-4-8 . 22-2-12 28-9-1 33-4-8 11-1-12 5-1-13 4-10-4 4-10-4 5-1-13

Scale = 1:82.2

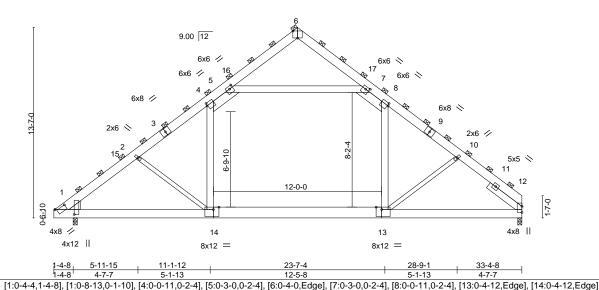


Plate Offsets (X,Y)--LOADING (psf) SPACING-3-0-0 CSI. DEFL. (loc) I/defl **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.14 13-14 >999 360 MT20 244/190 вс **TCDL** 10.0 Lumber DOL 1.15 0.66 Vert(CT) -0.22 13-14 >999 240 **BCLL** 0.0 Rep Stress Incr WB 0.59 Horz(CT) 0.03 12 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) >999 240 Weight: 690 lb FT = 20% 0.11 1-14

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.)

(Switched from sheeted: Spacing > 2-8-0).

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

LUMBER-

TOP CHORD 2x8 SP No 1

BOT CHORD 2x8 SP No.1 *Except* 13-14: 2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

2-14,10-13: 2x4 SP No.2, 4-5,7-8: 2x8 SP No.1

WEDGE

Left: 2x8 SP No.1

SLIDER Right 2x6 SP No.1 -x 2-11-6

REACTIONS. (size) 1=0-3-8, 12=0-3-8

Max Horz 1=-464(I C 10)

Max Grav 1=2819(LC 20), 12=2854(LC 21)

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

TOP CHORD 1-2=-4113/62, 2-4=-3826/29, 4-5=-2746/191, 5-6=-390/222, 6-7=-430/221, 7-8=-2789/191, 8-10=-3716/28, 10-12=-3856/67

BOT CHORD 1-14=0/3438, 13-14=0/3026, 12-13=0/2699

WEBS 5-7=-2837/109, 4-14=0/1525, 8-13=0/1342, 2-14=-563/344, 10-13=-183/419

NOTES-

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

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-1 to 5-0-14, Interior(1) 5-0-14 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 33-4-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-13
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-14
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



October 22,2020

MARNING - 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Settle Management and Component Settle Management fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007728 J1120-5310 C1GE GABLE Job Reference (optional)

5x5 =

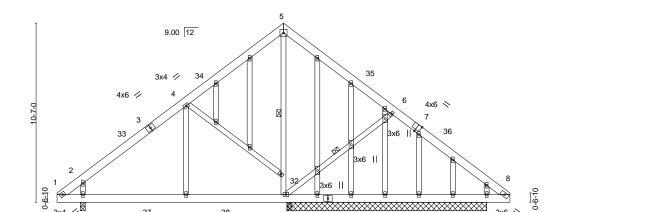
Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:44 2020 Page 1 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-2oE2Lt7OijXx_aBBLMX_IrndQQrAh1_Da_8y6ByQwoP

3x6

10

Scale = 1:68.0



15 14

13 39 12

4x6 = 13-8-12 1-8-0 1-4-8 13₇7₇0 0-2-8 26-9-0 7-7-8 5-11-8 13-4-8 5-9-0 25-4-8 11-7-12 0-3-8

3x4 =16

38

Plate Offsets	(X,Y)	[7:0-2-13,Edge]

LOADING	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 0.18	Vert(LL) -0.07 17 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.13 17-18 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.01 9 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12 17-18 >999 240	Weight: 237 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 **BRACING-**

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

WFBS 1 Row at midpt 6-16. 5-16

REACTIONS. All bearings 11-9-8 except (jt=length) 18=0-3-8.

(lb) -Max Horz 18=302(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 13, 12, 11 except 18=-234(LC 12), 16=-220(LC 13), 15=-296(LC

19), 10=-316(LC 19), 9=-365(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 15, 13, 12, 11, 10 except 18=693(LC 19), 16=1059(LC 20),

16=1041(LC 1), 9=753(LC 1)

//18

3x4

37

17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $1\hbox{-}2\hbox{--}294/0,\ 2\hbox{-}4\hbox{--}480/203,\ 4\hbox{-}5\hbox{--}287/288,\ 5\hbox{-}6\hbox{--}351/359,\ 6\hbox{-}8\hbox{--}568/353}$

BOT CHORD 1-18=0/284, 17-18=-248/477, 16-17=-246/478, 15-16=-193/393, 13-15=-193/393, 12-13=-193/393, 11-12=-193/393, 10-11=-193/393, 9-10=-193/393, 8-9=-193/393 **WEBS** 2-18=-450/309, 6-16=-447/379, 16-32=-470/0, 5-32=-347/54, 4-32=-318/170

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-4-8, Exterior(2) 13-4-8 to 17-9-5, Interior(1) 17-9-5 to 26-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 12, 11 except (jt=lb) 18=234, 16=220, 15=296, 10=316, 9=365.



October 22,2020





Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007729 C2 QUEENPOST J1120-5310 3 Job Reference (optional)

12-0-0 6-4-7

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:45 2020 Page 1 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-W_oQZD80T1fockmNv42DI3Kn9qAyQW8NpeuVfdyQwoO 18-4-7 24-0-0

Scale: 3/16"=1" 5x5 =

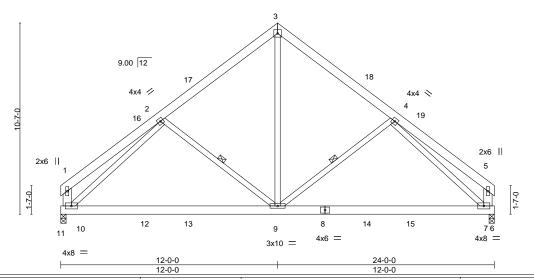
Structural wood sheathing directly applied or 6-0-0 oc purlins,

2-9, 4-9

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

except end verticals.

1 Row at midpt



LOADING	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.15	TC	0.24	Vert(LL)	-0.07	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15	BC	0.37	Vert(CT)	-0.13	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	/ES	WB	0.64	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	14	Matri	x-S	Wind(LL)	0.01	9	>999	240	Weight: 190 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

WEBS 2x4 SP No.2 *Except*

1-10,5-7: 2x6 SP No.1

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-209(LC 10)

Max Uplift 10=-35(LC 12), 7=-35(LC 13)

Max Grav 10=939(LC 1), 7=939(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-439/72, 2-3=-855/285, 3-4=-855/285, 4-5=-439/72, 1-10=-356/100, 5-7=-355/100 TOP CHORD

BOT CHORD 9-10=-129/852. 7-9=-129/732

WFBS $2-9=-314/229,\ 3-9=-131/623,\ 4-9=-314/229,\ 2-10=-717/245,\ 4-7=-717/245$

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 23-7-12 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.





Job Truss Truss Type Qty Watermark/Lot 65 South Creek/Harnett E15007730 C3GDR J1120-5310 Common Girder 2 Job Reference (optional)

12-0-0

6-4-7

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:46 2020 Page 1 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-_BMomZ9eELnfDuLZSnZSqGts4EXJ9vBW2ld3B4yQwoN 18-4-7 24-0-0

Scale: 3/16"=1' 5x8 ||

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

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

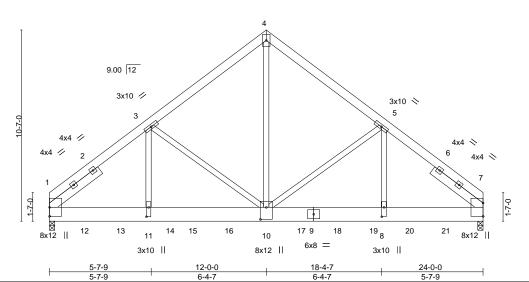


Plate Offsets (X,Y)-- [8:0-6-4,0-1-8], [10:0-8-0,0-4-0], [11:0-6-4,0-1-8]

LOADING	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 0.61	Vert(LL) -0.08 8-10	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.16 8-10) >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.84	Horz(CT) 0.03	7 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 10-11	l >999 240	Weight: 464 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x10 SP 2400F 2.0E

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.1 -x 3-5-12, Right 2x6 SP No.1 -x 3-5-12

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

Max Horz 1=-238(LC 4)

Max Uplift 1=-489(LC 8), 7=-485(LC 9) Max Grav 1=7306(LC 2), 7=7245(LC 2)

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

TOP CHORD 1-3=-8809/616, 3-4=-6299/533, 4-5=-6298/534, 5-7=-8810/617 BOT CHORD 1-11=-482/6536, 10-11=-482/6536, 8-10=-389/6535, 7-8=-389/6535

WEBS 4-10=-494/6886, 5-10=-1907/282, 5-8=-152/3093, 3-10=-1908/281, 3-11=-149/3091

NOTES-

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

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

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1170 lb down and 89 lb up at 1-11-4, 1170 lb down and 89 lb up at 3-11-4, 1170 lb down and 89 lb up at 5-11-4, 1170 lb down and 89 lb up at 7-11-4, 1170 lb down and 89 lb up at 9-11-4, 1170 lb down and 89 lb up at 11-11-4, 1170 lb down and 89 lb up at 13-11-4, 1170 lb down and 89 lb up at 15-11-4, 1170 lb down and 89 lb up at 17-11-4, and 1170 lb down and 89 lb up at 19-11-4, and 1170 lb down and 89 lb up at 21-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

SEAL

October 22,2020

MARNING - 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 MTI-sky 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from Trus Plate persons. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007730 J1120-5310 C3GDR Common Girder 2 Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:46 2020 Page 2 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-_BMomZ9eELnfDuLZSnZSqGts4EXJ9vBW2ld3B4yQwoN

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 10=-1105(F) 12=-1105(F) 13=-1105(F) 14=-1105(F) 15=-1105(F) 16=-1105(F) 17=-1105(F) 18=-1105(F) 19=-1105(F) 20=-1105(F) 21=-1105(F)



E15007731 D1 ROOF SPECIAL J1120-5310 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:47 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-TNwB_uAG?ewVr2wm0V5hNUP8nevfuZmgHyNcjWyQwoM Scale = 1:38.4 5x5 = 3 9.00 12 11 10 12 2x4 || 2x4 || 0-9-0 0-6-10 \bigotimes 13 14 3x4 💉 3x4 / 7 8 6 2x4 || 2x4 || 2x4 || 13₁10₇8 15-3-0 0-3-8 1-4-8 1-4-8 1₇8-0 0-3-8 7-7-8 13-7-0 5-11-8 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 0.17 Vert(LL) -0.01 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.16 Vert(CT) -0.02 7 >999 240 **BCLL** WB 0.06 0.0 Rep Stress Incr Horz(CT) 0.00 6 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

7-8

>999

240

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

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

Weight: 91 lb

FT = 20%

Qty

Ply

Watermark/Lot 65 South Creek/Harnett

LUMBER-

BCDL

Job

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

10.0

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

Max Horz 8=138(LC 9)

Truss

Truss Type

Max Uplift 6=-32(LC 13), 8=-32(LC 12) Max Grav 6=610(LC 1), 8=610(LC 1)

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

Code IRC2015/TPI2014

1-2=-350/9, 2-3=-504/138, 3-4=-504/138, 4-5=-350/9 TOP CHORD 1-8=0/341, 7-8=0/341, 6-7=0/341, 5-6=0/341 **BOT CHORD**

WEBS 4-6=-481/316, 2-8=-481/316

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 7-7-8, Exterior(2) 7-7-8 to 12-0-5, Interior(1) 12-0-5 to 15-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.



MARNING - 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 MTReks connectors. This design is based only upon parameters shown, and is for an individual building ocomponent, 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/THI Quality Criteria, DSB-89 and BCSI Building Component Sector Members and Possible Sector Truss Plate betties 2570 Crisis Historyca. Suits 232 Wolderf, MD 200610. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



D1GE J1120-5310 GABLE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:48 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-xZUZBEBvmy2MTCVyaCcwwhyLe2Hkd_SpVc6AFyyQwoL 7-7-8 Scale = 1:35.3 5x5 = 5 6 9.00 12 19 18 3 20 8 0 - 6 - 100-6-10 3x4 / 3x4 N 15 14 13 12 11 10 1-4-8 15-3-0 1-4-8 0-3-8 5-11-8 5-11-8 1-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defI L/d **PLATES** GRIP in (loc) **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 вс 0.04 Vert(CT) n/a n/a 999 **BCLL** WB 0.0 Rep Stress Incr YES 0.09 Horz(CT) 0.00 10 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 109 lb FT = 20%

Qty

Ply

Watermark/Lot 65 South Creek/Harnett

E15007732

LUMBER-

Job

Truss

Truss Type

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.

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

REACTIONS. All bearings 12-6-0

Max Horz 16=-172(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 14, 16, 12, 10 except 15=-177(LC 12), 11=-170(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 7-7-8, Exterior(2) 7-7-8 to 12-0-5, Interior(1) 12-0-5 to 15-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 16, 12, 10 except (jt=lb) 15=177, 11=170.
- 9) Non Standard bearing condition. Review required.



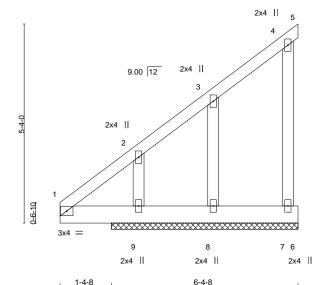


Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007733 MONOPITCH SUPPORTED J1120-5310 M1GE Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:48 2020 Page 1 ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-xZUZBEBvmy2MTCVyaCcwwhyKy2FCd?NpVc6AFyyQwoL

Scale = 1:30.9



LOADING	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 0.08	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 40 lb	FT = 20%

LUMBER-

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

5-0-0

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 6-7.

REACTIONS. (size) 7=5-0-0, 8=5-0-0, 9=5-0-0

Max Horz 9=229(LC 12)

Max Uplift 7=-28(LC 12), 8=-300(LC 12)

Max Grav 7=93(LC 19), 8=184(LC 10), 9=343(LC 21)

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

TOP CHORD 1-2=-262/210

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-1-4, Exterior(2) 4-1-4 to 6-4-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

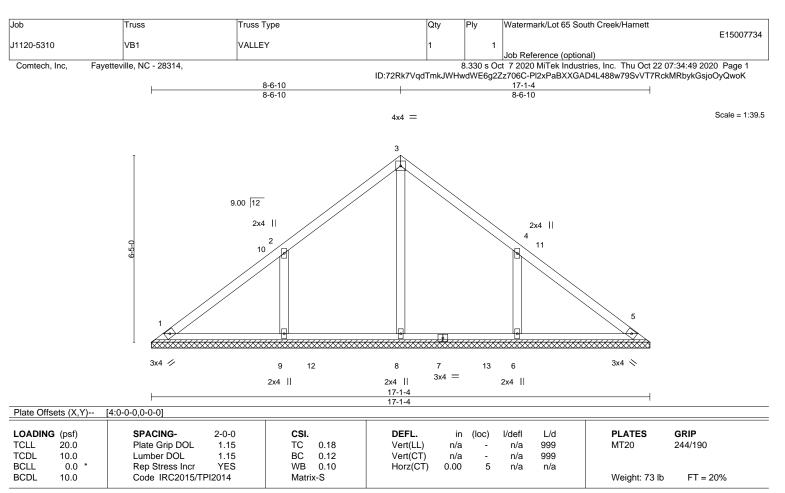
1-4-8

- 2) 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.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 8=300
- 7) Non Standard bearing condition. Review required.





Edenton, NC 27932



LUMBER-

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

BRACING-

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

REACTIONS. All bearings 17-1-4

(lb) - Max Horz 1=146(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-135(LC 12), 6=-134(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=347(LC 19), 9=450(LC 19), 6=450(LC 20)

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

WEBS 2-9=-364/243, 4-6=-364/243

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-6-10, Interior(1) 4-6-10 to 8-6-10, Exterior(2) 8-6-10 to 12-11-7, Interior(1) 12-11-7 to 16-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=135, 6=134.





Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007735 J1120-5310 VB2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:50 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-tycJcwC9lZl4iVfLhdeO?61efryW5uM6zwbGKryQwoJ 6-9-5 6-9-5 , 13-6-10 Scale = 1:30.7 4x4 = 3 9.00 12 10 2x4 || 3x4 × 3x4 / 8 6 2x4 || 2x4 || 13-6-10 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP 1.15 TCLL 20.0 Plate Grip DOL TC 0.13 Vert(LL) n/a n/a 999 MT20 244/190 TCDL вс 10.0 Lumber DOL 1.15 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 0.00 Horz(CT) n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 55 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 OTHERS

REACTIONS. All bearings 13-6-10.

(lb) - Max Horz 1=-114(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-110(LC 12), 6=-110(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=332(LC 19), 6=332(LC 20)

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

WEBS 2-8=-300/217, 4-6=-300/217

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 6-9-5, Exterior(2) 6-9-5 to 11-2-2, Interior(1) 11-2-2 to 13-1-6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=110, 6=110,
- 6) Non Standard bearing condition. Review required.



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

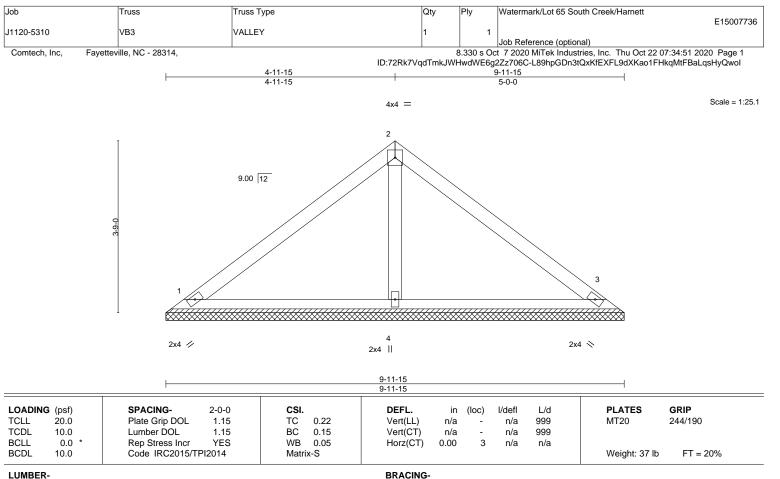
Rigid ceiling directly applied or 10-0-0 oc bracing.



Design valid for use only with MTReks connectors. This design is based only upon parameters shown, and is for an individual building ocomponent, 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/THI Quality Criteria, DSB-89 and BCSI Building Component Sector Members and Possible Sector Truss Plate betties 2570 Crisis Historyca. Suits 232 Wolderf, MD 200610. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=9-11-15, 3=9-11-15, 4=9-11-15 Max Horz 1=-82(LC 10)

Max Uplift 1=-22(LC 12), 3=-30(LC 13)

Max Grav 1=188(LC 1), 3=188(LC 1), 4=353(LC 1)

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

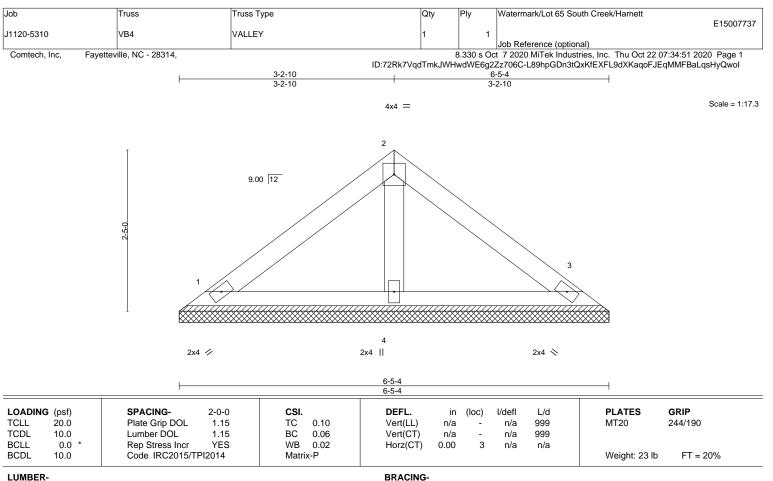
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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



TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-5-4, 3=6-5-4, 4=6-5-4

Max Horz 1=50(LC 9)

Max Uplift 1=-19(LC 12), 3=-24(LC 13)

Max Grav 1=125(LC 1), 3=125(LC 1), 4=195(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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



Design valid for use only with MTI-sky 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from Trus Plate persons. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Watermark/Lot 65 South Creek/Harnett E15007738 VB5 VALLEY J1120-5310 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Oct 22 07:34:52 2020 Page 1 Comtech, Inc. ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-pKj31cEPqBYoxpojp2gs4X70yferZpsPQE4NOjyQwoH 1-5-5 1-5-5 2-10-10 1-5-5 Scale = 1:8.2 9.00 12 3 2x4 🚿 2x4 / 2-10-10 2-10-10 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL 1.15 TC 0.01 Vert(LL) n/a n/a 999 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

n/a

0.00

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-10-10 oc purlins.

Weight: 8 lb

FT = 20%

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

999

n/a

n/a

n/a

3

REACTIONS. (size) 1=2-10-10, 3=2-10-10

Max Horz 1=18(LC 11)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=80(LC 1), 3=80(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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

вс

WB

Matrix-P

0.03

0.00

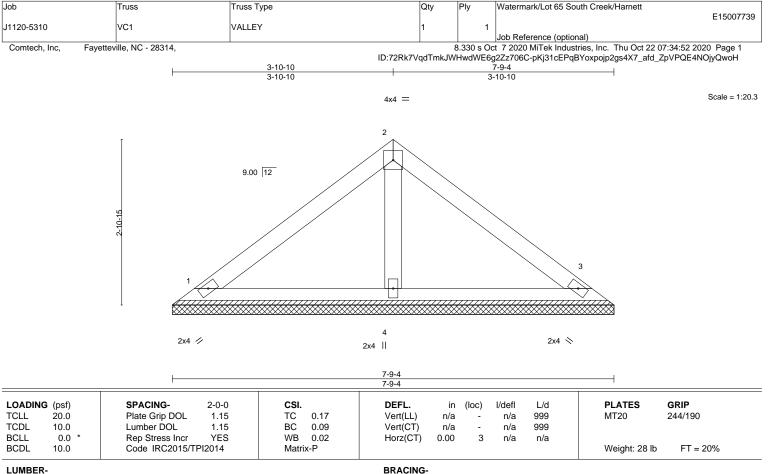
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.





TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 1=62(LC 11)

Max Uplift 1=-24(LC 12), 3=-30(LC 13)

Max Grav 1=155(LC 1), 3=155(LC 1), 4=242(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

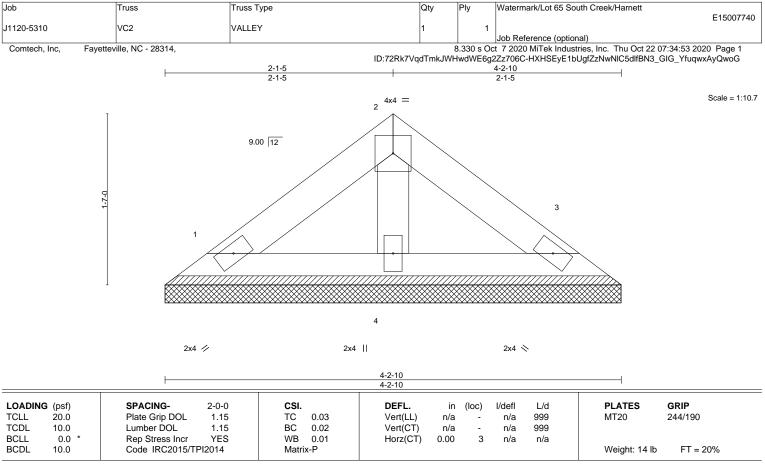
Rigid ceiling directly applied or 10-0-0 oc bracing.



Design valid for use only with MTReks connectors. This design is based only upon parameters shown, and is for an individual building ocomponent, 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/THI Quality Criteria, DSB-89 and BCSI Building Component Sector Members and Possible Sector Truss Plate betties 2570 Crisis Historyca. Suits 232 Wolderf, MD 200610. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-2-10 oc purlins.

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

REACTIONS. (size) 1=4-2-10, 3=4-2-10, 4=4-2-10

Max Horz 1=-30(LC 8)

Max Uplift 1=-12(LC 12), 3=-15(LC 13)

Max Grav 1=75(LC 1), 3=75(LC 1), 4=117(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



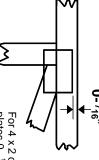


Symbols

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



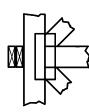
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated 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

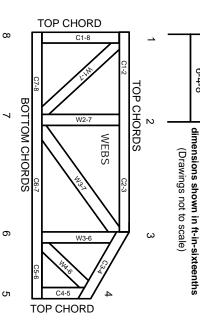
Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System

6-4-8



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

Failure to Follow Could Cause Property

- Damage or Personal Injury

 1. 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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and

4

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

6 5

- 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

œ

7.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. 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 specified.
- 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.