

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1123-6661

Lot 17 Heritage @ NC

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: I62214179 thru I62214205

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

North Carolina COA: C-0844



November 28,2023

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.

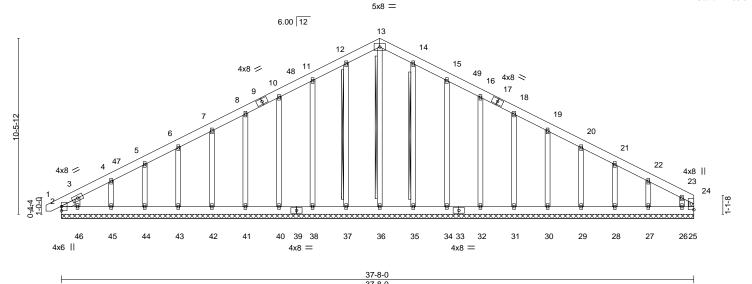
Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214179 J1123-6661 A01GE **GABLE** 2 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:05 2023 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0 0-11-0 18-11-8 18-8-8

Scale = 1:68.6



			37-8-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00 1 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.00 25 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 328 lb FT = 20%

WEBS

LUMBER-BRACING-

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

2x4 SP No.2 Left 2x4 SP No.2 0-11-1 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. 2x4 SPF No.2 - 13-36, 12-37, 14-35 T-Brace:

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 37-8-0.

Max Horz 2=135(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29,

28, 27 except 46=-106(LC 12), 26=-149(LC 13)

All reactions 250 lb or less at joint(s) 25, 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, Max Grav 31, 30, 29, 28, 27, 26

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

TOP CHORD 10-11=-101/306, 11-12=-124/370, 12-13=-137/406, 13-14=-137/408, 14-15=-124/372,

15-16=-101/309, 16-18=-81/250

NOTES-

SLIDER

- 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 Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 18-11-8, Corner(3) 18-11-8 to 23-4-5, Exterior(2) 23-4-5 to 37-6-4 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) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 46=106, 26=149.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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9-4-0

28-2-0

9-2-8

Scale = 1:68.6

37-8-0

9-6-0

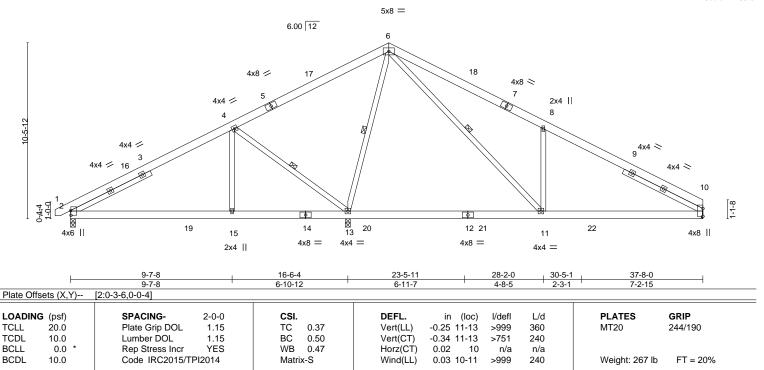
Structural wood sheathing directly applied or 6-0-0 oc purlins.

4-13, 6-13, 6-11

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

6-0-0 oc bracing: 11-13.

1 Row at midpt



BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

-0-11-0 0-11-0

SLIDER Left 2x4 SP No.2 5-3-12, Right 2x4 SP No.2 5-3-9

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 10=Mechanical

Max Horz 2=-134(LC 8)

Max Uplift 2=-101(LC 12), 10=-119(LC 13)

Max Grav 2=662(LC 23), 13=1854(LC 2), 10=820(LC 20)

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

TOP CHORD 2-4=-712/311, 4-6=-45/341, 6-8=-1199/572, 8-10=-1188/360

BOT CHORD 2-15=-158/543, 13-15=-158/543, 10-11=-157/955

WEBS 4-15=0/328, 4-13=-803/282, 6-13=-997/146, 6-11=-315/1324, 8-11=-582/369

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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 37-8-0 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.
- * 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 10=119.



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Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214181 J1123-6661 COMMON A03 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:08 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

9-0-10

28-3-8

9-4-0

Scale = 1:75.5

38-10-0 0-11-0

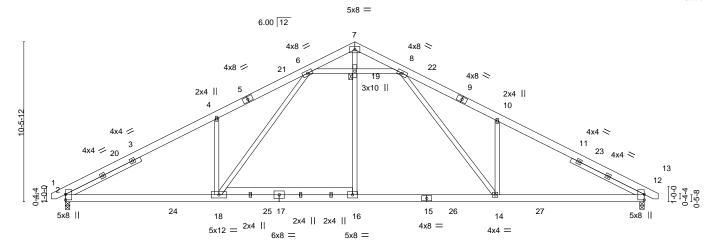
37-11-0

9-7-8

Structural wood sheathing directly applied or 4-5-11 oc purlins.

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

1 Brace at Jt(s): 19



	9-10-14 9-10-14	18-11-8 9-0-10	28-3-8 9-4-0	9-7-8	
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 0.42 BC 0.55 WB 0.42 Matrix-S	DEFL. in (loc) l/defl Vert(LL) -0.22 14-16 >999 Vert(CT) -0.30 14-16 >999 Horz(CT) 0.08 12 n/a Wind(LL) 0.10 18 >999	L/d PLATES 360 MT20 240 n/a 240 Weight: 297 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

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

SLIDER Left 2x4 SP No.2 5-5-10, Right 2x4 SP No.2 5-3-12

REACTIONS.

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

Max Horz 2=131(LC 9)

Max Uplift 2=-101(LC 12), 12=-101(LC 13) Max Grav 2=1765(LC 2), 12=1766(LC 2)

9-10-14

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

2-4=-2980/517, 4-6=-2887/677, 6-7=-882/41, 7-8=-889/42, 8-10=-2909/678, TOP CHORD

10-12=-3000/517

BOT CHORD 2-18=-311/2573, 16-18=-181/2072, 14-16=-181/2072, 12-14=-311/2545 WEBS

16-19=0/719, 10-14=-532/304, 4-18=-549/308, 6-19=-1336/521, 8-19=-1336/521,

7-19=0/752, 6-18=-226/915, 8-14=-224/917

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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-8-2 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 100 lb uplift at joint(s) except (jt=lb) 2=101, 12=101.



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Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214182 J1123-6661 A03A COMMON 2 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:09 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

9-0-10

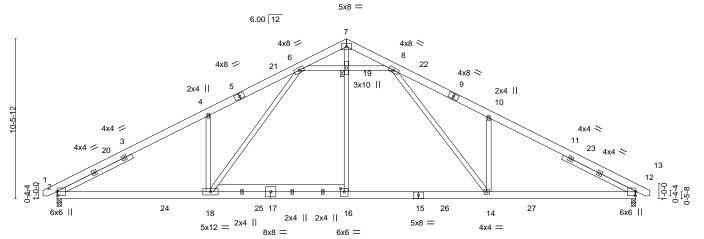
ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 37-11-0 38-10-0 0-11-0 28-3-8 9-4-0 9-7-8

Structural wood sheathing directly applied or 4-1-10 oc purlins.

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

1 Brace at Jt(s): 19

Scale = 1:75.5



L	9-10-14	18-11-8	28-3-8	37-11-0	
	9-10-14	9-0-10	9-4-0	9-7-8	1
Plate Offsets (X,Y)	[2:0-3-6,0-0-9], [12:0-3-6,0-0-9], [16:0-	3-0,0-2-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-3-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.55 BC 0.68 WB 0.48 Matrix-S	DEFL. in (loc) l/defl Vert(LL) -0.24 14-16 >999 Vert(CT) -0.34 14-16 >999 Horz(CT) 0.09 12 n/a Wind(LL) 0.11 18 >999	L/d PLATES 360 MT20 240 n/a 240 Weight: 297 lb	GRIP 244/190 FT = 20%

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

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

-0-11-0 0-11-0

9-10-14

SLIDER Left 2x4 SP No.2 5-5-10, Right 2x4 SP No.2 5-3-12

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

Max Horz 2=148(LC 9)

Max Uplift 2=-113(LC 12), 12=-113(LC 13) Max Grav 2=1986(LC 2), 12=1987(LC 2)

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

TOP CHORD 2-4=-3352/581, 4-6=-3248/762, 6-7=-992/46, 7-8=-1000/47, 8-10=-3272/763, 10-12=-3375/581

BOT CHORD 2-18=-349/2894, 16-18=-204/2331, 14-16=-204/2331, 12-14=-350/2863

WEBS 16-19=0/809, 10-14=-598/342, 4-18=-618/346, 6-19=-1503/586, 8-19=-1503/586,

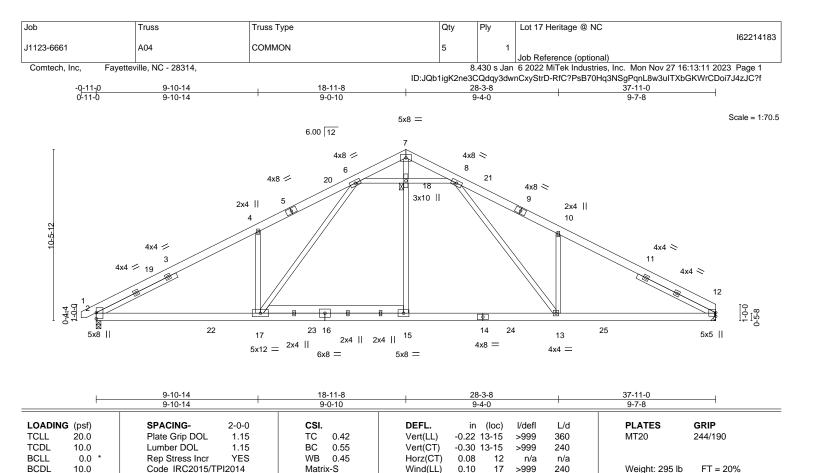
7-19=0/846, 6-18=-254/1029, 8-14=-252/1032

- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-8-2 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 100 lb uplift at joint(s) except (jt=lb) 2=113, 12=113.



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BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.2 5-5-10, Right 2x4 SP No.2 5-3-12

REACTIONS.

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

Max Horz 2=-134(LC 8)

Max Uplift 2=-101(LC 12), 12=-90(LC 13) Max Grav 2=1766(LC 2), 12=1728(LC 2)

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

TOP CHORD 2-4=-2981/517, 4-6=-2888/678, 6-7=-881/42, 7-8=-888/44, 8-10=-2912/702,

10-12=-3003/532

BOT CHORD 2-17=-297/2575, 15-17=-171/2074, 13-15=-171/2074, 12-13=-309/2548 WEBS

15-18=0/718, 10-13=-533/307, 4-17=-549/308, 6-18=-1337/522, 8-18=-1337/522,

7-18=0/751, 6-17=-226/915, 8-13=-241/920

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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 37-11-0 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.
- * 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) 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) 12 except (jt=lb) 2=101.



Structural wood sheathing directly applied or 4-5-10 oc purlins.

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

1 Brace at Jt(s): 18

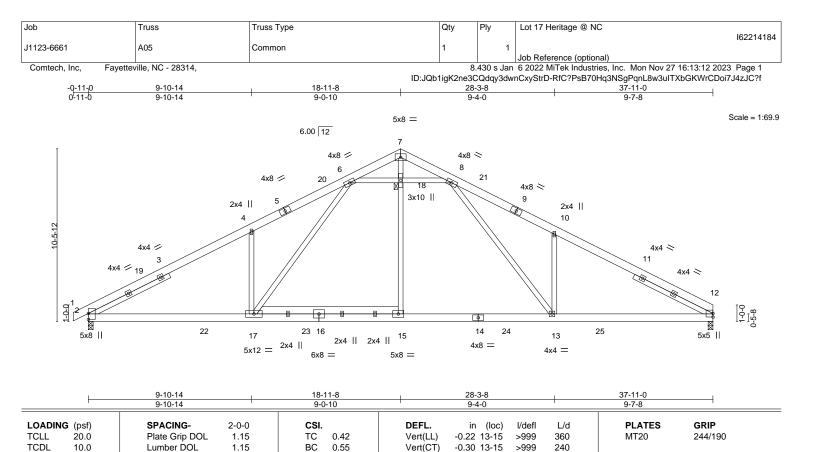


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





Horz(CT)

Wind(LL)

BRACING-TOP CHORD

JOINTS

BOT CHORD

0.08

0.10

12

17

n/a

>999

1 Brace at Jt(s): 18

n/a

240

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

Structural wood sheathing directly applied or 4-5-10 oc purlins.

Weight: 295 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

SLIDER Left 2x4 SP No.2 5-5-10, Right 2x4 SP No.2 5-3-12

REACTIONS.

(size) 2=0-3-8, 12=0-3-8 Max Horz 2=-132(LC 8)

Max Uplift 2=-103(LC 12), 12=-90(LC 13) Max Grav 2=1774(LC 2), 12=1728(LC 2)

Rep Stress Incr

Code IRC2015/TPI2014

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

2-4=-2980/514, 4-6=-2886/673, 6-7=-881/42, 7-8=-888/44, 8-10=-2911/702, TOP CHORD

10-12=-3003/532

BOT CHORD 2-17=-295/2574, 15-17=-170/2074, 13-15=-170/2074, 12-13=-309/2547

WEBS 15-18=0/718, 10-13=-533/307, 4-17=-548/308, 6-18=-1337/522, 8-18=-1337/522,

YES

WB

Matrix-S

0.45

7-18=0/752, 6-17=-225/913, 8-13=-241/920

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 37-11-0 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.
- * 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) 12 except (jt=lb) 2=103.



November 28,2023



Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214185 J1123-6661 B01GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:14 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-0-0 0-11-0 6-6-8 6-6-8 0-11-0 Scale = 1:33.5 5x5 = 6 8.00 12 4x4 / 4x4 💸 11 10

			13-1-0	
LOADING (psf	SPACING- 2-0	-0 CSI .	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.	15 TC 0.02	Vert(LL) 0.00 10 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.	15 BC 0.02	Vert(CT) 0.00 10 n/r 120	
BCLL 0.0	* Rep Stress Incr YE	S WB 0.04	Horz(CT) 0.00 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI201	4 Matrix-S		Weight: 108 lb FT = 20%

14

BOT CHORD

13

12

15

LUMBER-BRACING-TOP CHORD

16

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

SLIDER Left 2x6 SP No.1 2-6-0, Right 2x6 SP No.1 2-6-0

3x6 ||

REACTIONS. All bearings 13-1-0.

(lb) -Max Horz 2=150(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-143(LC 12), 12=-136(LC 13)

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

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 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) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 6-6-8, Corner(3) 6-6-8 to 10-11-5, Exterior(2) 10-11-5 to 14-0-0 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, 10, 15, 13 except (jt=lb) 16=143, 12=136.



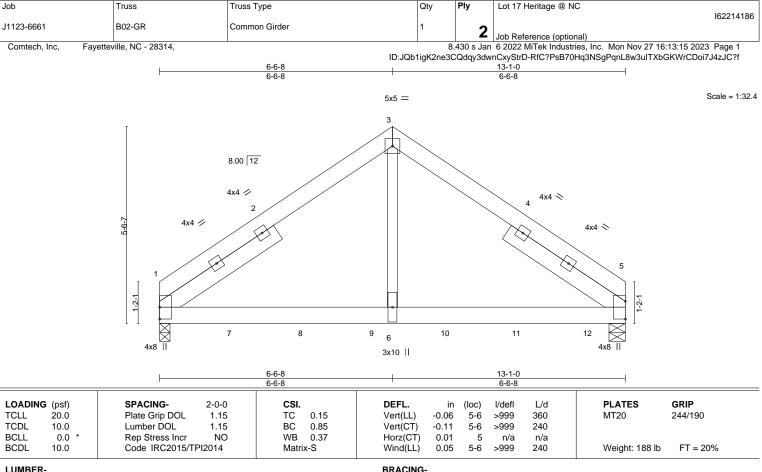
3x6 II

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

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

November 28,2023





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2 **SLIDER** Left 2x6 SP No.1 3-11-3, Right 2x6 SP No.1 3-11-3

REACTIONS.

(size) 1=0-3-8, 5=0-5-8 Max Horz 1=121(LC 24)

Max Uplift 1=-386(LC 8), 5=-448(LC 9) Max Grav 1=2703(LC 1), 5=3080(LC 1)

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

1-3=-3040/471, 3-5=-3030/469 TOP CHORD **BOT CHORD** 1-6=-307/2358, 5-6=-307/2358

WFBS 3-6=-403/3046

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: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=386, 5=448.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 789 lb down and 139 lb up at 2-0-12, 789 lb down and 139 lb up at 4-0-12, 789 lb down and 139 lb up at 6-0-12, 789 lb down and 139 lb up at 8-0-12, and 789 lb down and 139 lb up at 10-0-12, and 789 lb down and 139 lb up at 12-0-12 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 Uniform Loads (plf)

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



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

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

November 28,2023



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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214186 J1123-6661 B02-GR Common Girder

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:15 2023 Page 2
ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 7=-789(B) 8=-789(B) 9=-789(B) 10=-789(B) 11=-789(B) 12=-789(B)



Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214187 J1123-6661 C01GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:16 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 7-6-8 7-6-8 16-0-0

7-6-8

15-1-0 7-6-8

except end verticals.

Structural wood sheathing directly applied or 3-0-7 oc purlins,

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

Scale = 1:26.6

0-11-0

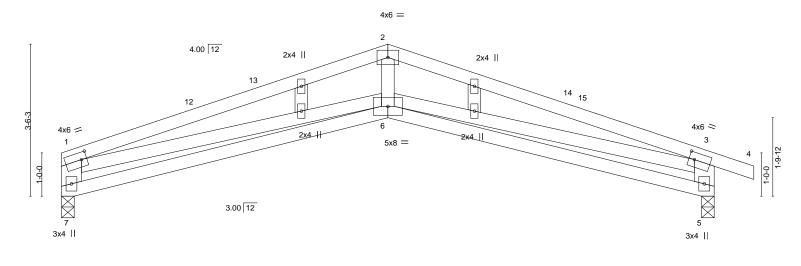


Plate Oil	sels (X,Y)	[1:0-1-8,0-2-0], [3:0-1-8,0-2-0]						
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I	/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.10	5-6 >	999 360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.23	5-6 >	761 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.10	5	n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	6 >	999 240	Weight: 76 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-7,3-5: 2x6 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 5=0-3-8

Max Horz 7=-34(LC 17)

Max Uplift 7=-136(LC 8), 5=-195(LC 9) Max Grav 7=582(LC 1), 5=656(LC 1)

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

TOP CHORD 1-2=-1783/429, 2-3=-1787/444, 1-7=-592/248, 3-5=-698/339

BOT CHORD 6-7=-149/393, 5-6=-221/526

WEBS 2-6=-34/694, 1-6=-214/1269, 3-6=-177/1141

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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-6-8, Exterior(2) 7-6-8 to 11-11-5, Interior(1) 11-11-5 to 16-0-0 zone; end vertical 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) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=136, 5=195,



November 28,2023



Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214188 J1123-6661 C02 **SCISSORS** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:17 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 7-6-8 7-6-8 16-0-0

7-6-8

7-6-8

except end verticals.

Structural wood sheathing directly applied or 3-0-7 oc purlins,

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

Scale = 1:26.6

0-11-0

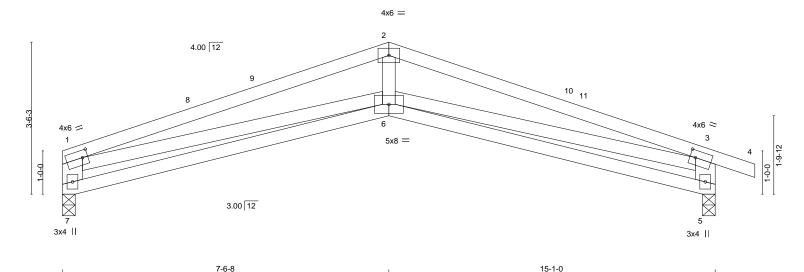


Plate Offsets (X,Y)--[1:0-1-8,0-2-0], [3:0-1-8,0-2-0] LOADING (psf) SPACING-CSI. (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.73 Vert(LL) -0.10 5-6 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.23 5-6 >761 240 BCLL 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.10 5 n/a n/a BCDL Code IRC2015/TPI2014 FT = 20% 10.0 Wind(LL) 0.07 6 >999 240 Matrix-S Weight: 75 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-7,3-5: 2x6 SP No.1

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-19(LC 17)

Max Uplift 7=-46(LC 8), 5=-88(LC 9) Max Grav 7=582(LC 1), 5=656(LC 1)

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

1-2=-1783/429, 2-3=-1787/444, 1-7=-592/248, 3-5=-698/339 TOP CHORD

BOT CHORD 6-7=-144/393. 5-6=-200/526

WEBS 2-6=-34/694, 1-6=-214/1269, 3-6=-177/1141

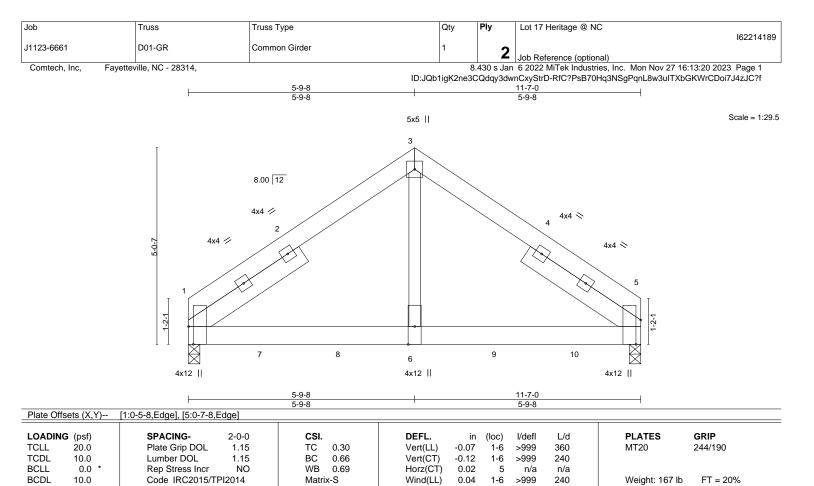
NOTES-

- 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 7-6-8, Exterior(2) 7-6-8 to 11-11-5, Interior(1) 11-11-5 to 16-0-0 zone; end vertical 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 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) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



November 28,2023





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.1 3-5-13, Right 2x6 SP No.1 3-5-13

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=109(LC 24)

Max Uplift 1=-272(LC 8), 5=-283(LC 9) Max Grav 1=4589(LC 2), 5=4762(LC 2)

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

TOP CHORD 1-3=-5011/334, 3-5=-5008/334 BOT CHORD 1-6=-203/3964, 5-6=-203/3964

WEBS 3-6=-265/5598

NOTES-

- 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: 2x6 - 2 rows staggered at 0-6-0 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 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.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=272.5=283.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1708 lb down and 110 lb up at 1-11-4, 1708 lb down and 110 lb up at 3-11-4, 1708 lb down and 110 lb up at 5-11-4, and 1708 lb down and 110 lb up at 7-11-4, and 1708 lb down and 110 lb up at 9-11-4 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 Uniform Loads (plf)

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

SEAL 036322

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

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

November 28,2023



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818 Soundside Roa Edenton, NC 27932 Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214189 J1123-6661 D01-GR Common Girder

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:20 2023 Page 2
ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6=-1496(B) 7=-1496(B) 8=-1496(B) 9=-1496(B) 10=-1496(B)



Truss Type Qty Lot 17 Heritage @ NC 162214190 J1123-6661 D01GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:19 2023 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 12-6-0 -0-11-0 0-11-0 5-9-8 5-9-8 0-11-0 Scale = 1:29.4 5x5 = 8.00 12 4x4 💸 11 10 14 13 12 16 15 3x6 || 3x6 II 11-7-0 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/def 20.0 Plate Grip DOL Vert(LL) -0.00 120 244/190 **TCLL** 1.15 TC 0.02 10 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.01 Vert(CT) -0.00 10 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 10 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 93 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

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

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

SLIDER Left 2x6 SP No.1 1-7-15, Right 2x6 SP No.1 1-7-15

Truss

REACTIONS. All bearings 11-7-0.

(lb) -Max Horz 2=135(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-131(LC 12), 12=-122(LC 13)

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

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 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) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 5-9-8, Corner(3) 5-9-8 to 10-2-5, Exterior(2) 10-2-5 to 12-6-0 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.
- * 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, 10, 15, 13 except (jt=lb) 16=131, 12=122.



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

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

November 28,2023



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Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214191 J1123-6661 M01GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

0-11-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:21 2023 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

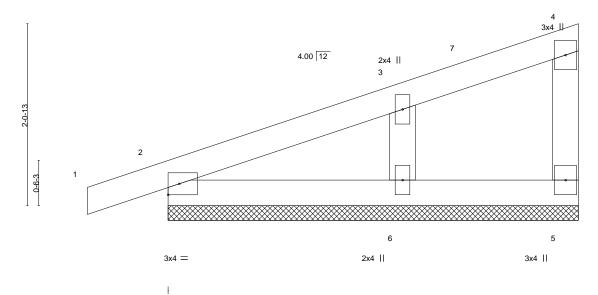
Structural wood sheathing directly applied or 4-8-0 oc purlins,

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

except end verticals.

4-8-0

Scale = 1:13.1



LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-P						Weight: 19 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2

(size) 5=4-8-0, 2=4-8-0, 6=4-8-0 Max Horz 2=86(LC 8)

Max Uplift 5=-18(LC 8), 2=-57(LC 8), 6=-81(LC 12) Max Grav 5=48(LC 1), 2=153(LC 1), 6=215(LC 1)

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

WEBS 3-6=-157/302

NOTES-

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) gable end zone and C-C Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 4-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



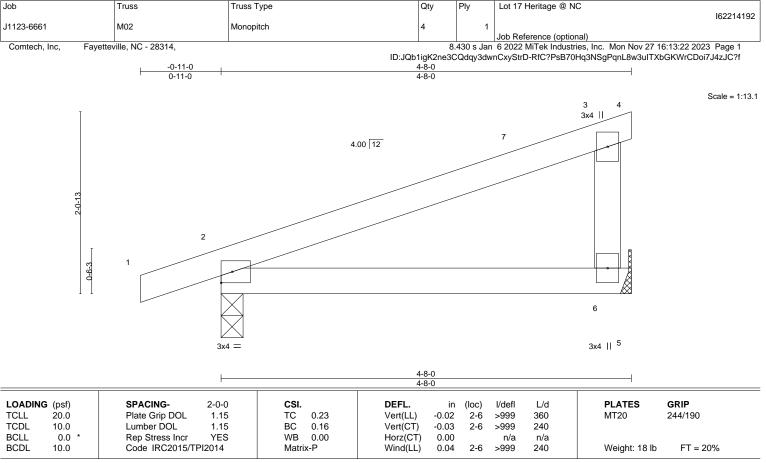
November 28,2023

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-BOT CHORD

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

WEBS 2x4 SP No.2

REACTIONS.

6=Mechanical, 2=0-3-0 (size) Max Horz 2=61(LC 8) Max Uplift 6=-74(LC 8), 2=-96(LC 8) Max Grav 6=174(LC 1), 2=241(LC 1)

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 Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-8-0 zone; porch left 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) 6, 2.



Structural wood sheathing directly applied or 4-8-0 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. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214193 J1123-6661 M02A Roof Special 2 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:23 2023 Page 1 Comtech, Inc. ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f . 5-8-0 0-11-0 4-8-0 1-0-0 Scale = 1:13.1 4x4 | 11 4.00 12 0-3-8 6 5x8 2x4 0-6-3 12 10 8 3x6 || 6x6 = 4x4 = 4-8-0 1-0-0 LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP 2-0-0 CSI (loc) I/def 20.0 Vert(LL) -0.02 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.82 2-10 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.04 2-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.28 Horz(CT) -0.01 8 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.05 2-10 >999 240 Weight: 23 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No 1 TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals. Except:

BOT CHORD

9-11-0 oc bracing: 3-9

Rigid ceiling directly applied or 5-5-14 oc bracing.

2x4 SP No.1

BOT CHORD WEBS 2x4 SP No.2

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

Max Horz 2=61(LC 8)

Max Uplift 2=-175(LC 8), 8=-440(LC 8) Max Grav 2=427(LC 1), 8=1064(LC 3)

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

TOP CHORD 2-3=-622/809, 9-10=-627/432

BOT CHORD 2-10=-824/543, 8-10=-1213/798

WEBS 8-9=-1060/1612

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-8-0 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.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=175, 8=440.
- 7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 688 lb up at 4-9-12 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 Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 2-7=-20, 6-9=-25, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-500 12=-500



November 28,2023



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

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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214194 J1123-6661 M03 Roof Special | **4** | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:24 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f . 5-8-0 0-11-0 4-8-0 1-0-0 Scale = 1:13.1 3x4 || 4.00 12 0-6-3 10 8 3x4 II 2x4 || 7 3x4 = 4-8-0 1-0-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI (loc) I/def L/d 20.0 Vert(LL) -0.01 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.13 2-10 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 2-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.01 Horz(CT) 0.00 8 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.01 2-10 >999 240 Weight: 44 lb FT = 20% LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 SP No 1 Structural wood sheathing directly applied or 4-8-0 oc purlins, 2x4 SP No.1 BOT CHORD except end verticals. Except: 6-0-0 oc bracing: 3-9

BOT CHORD

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 8=Mechanical Max Horz 2=61(LC 8)

Max Uplift 2=-55(LC 8), 8=-16(LC 12)

Max Grav 2=298(LC 1), 8=369(LC 3)

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

TOP CHORD 2-3=-259/76

NOTES-

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

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

Bottom chords connected as follows: 2x4 - 1 row 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.
- Unbalanced roof live loads have been considered for this design.
- 4) 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-8-0 zone; 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 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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 Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 2-7=-20, 6-9=-170, 5-6=-20

Concentrated Loads (lb) Vert: 9=-40



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

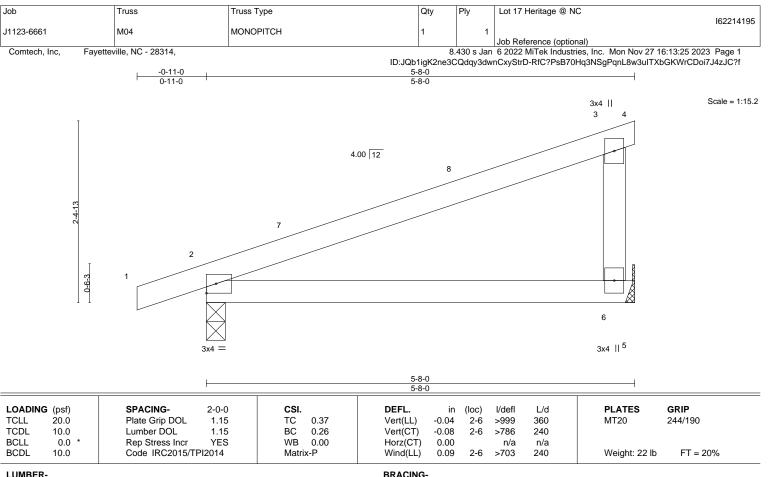


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

2x4 SP No.1 2x4 SP No.1

WEBS 2x4 SP No.2

> 6=Mechanical, 2=0-3-0 (size) Max Horz 2=72(LC 8)

Max Uplift 6=-92(LC 8), 2=-109(LC 8) Max Grav 6=216(LC 1), 2=279(LC 1)

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 Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-8-0 zone; porch left 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) 6 except (jt=lb) 2=109



Structural wood sheathing directly applied or 5-8-0 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. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 17 Heritage @ NC 162214196 J1123-6661 M05GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

0-11-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:26 2023 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

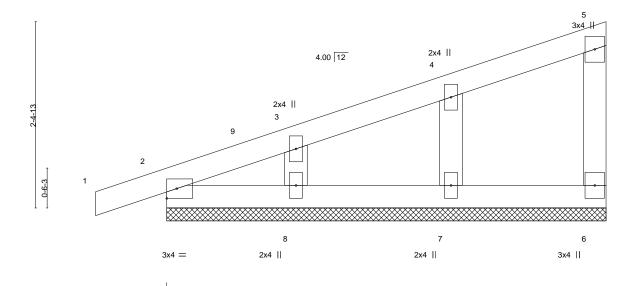
Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.

5-8-0 5-8-0

Scale = 1:14.9



LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.06 BC 0.02	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 1 n/r 120 Vert(CT) -0.00 1 n/r 120	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.04 Matrix-P	Horz(CT) 0.00 n/a n/a	Weight: 24 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.2 All bearings 5-8-0. (lb) -Max Horz 2=102(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

NOTES-

OTHERS

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) gable end zone and C-C Corner(3) -0-11-0 to 3-8-0, Exterior(2) 3-8-0 to 5-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.





Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214197 J1123-6661 M06GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:27 2023 Page 1

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

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

except end verticals.

10-0-0 10-0-0

Scale = 1:19.9

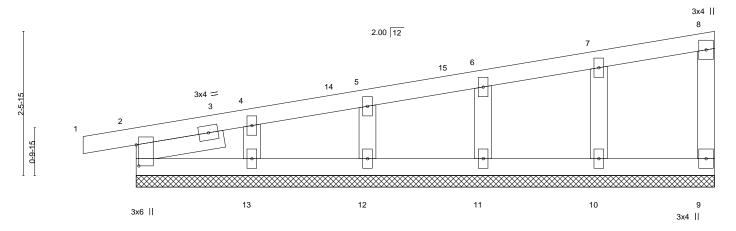


Plate Offsets (X,Y)--[2:0-4-6,0-0-9] **PLATES** LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) -0.00 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 43 lb Matrix-S

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x4 SP No.2 **OTHERS** SLIDER Left 2x4 SP No.2 1-6-11

0-11-0

REACTIONS. All bearings 10-0-0.

Max Horz 2=87(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 10, 11, 12, 13 Max Grav All reactions 250 lb or less at joint(s) 9, 2, 10, 11, 12, 13

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) gable end zone and C-C Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 9-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 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) 9, 2, 10, 11, 12, 13.

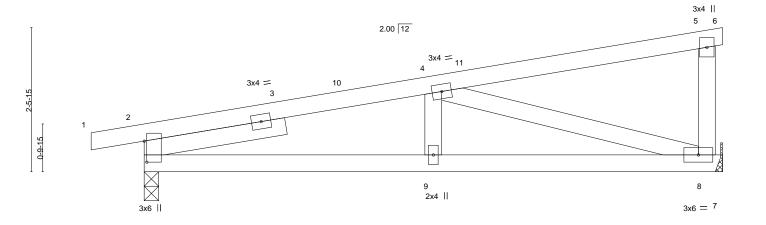


November 28,2023



Job	Truss	Truss Type	Qty	Ply	Lot 17 Heritage @ NC
					I62214198
J1123-6661	M07	Monopitch	7	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:28 2023 Page 1
		ID:JQb	1igK2ne3C	Qdqy3dw	nCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
0-11-0	İ	5-0-0			10-0-0
0-11-0		5-0-0			5-0-0

Scale = 1:19.9



		I		5-0-0		I				5-0-0		ı
Plate Offsets	s (X,Y)	[2:0-4-6,0-0-9]										
LOADING (. ,	SPACING-	2-0-0	CSI.	0.04	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCDL 1	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.21	Vert(LL) Vert(CT)	0.05	2-9 2-9	>999 >999	240 240	MT20	244/190
BCLL BCDL 1	0.0 * 10.0	Rep Stress Incr Code IRC2015/TF	YES PI2014	WB Matrix	0.30 k-S	Horz(CT)	0.01	8	n/a	n/a	Weight: 46 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

10-0-0

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

except end verticals.

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

LUMBER-

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

WEBS 2x4 SP No.2 **SLIDER** Left 2x4 SP No.2 2-6-0

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

Max Horz 2=62(LC 12) Max Uplift 8=-157(LC 8), 2=-177(LC 8) Max Grav 8=398(LC 1), 2=447(LC 1)

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

TOP CHORD 2-4=-800/779

BOT CHORD 2-9=-819/738, 8-9=-819/738 WEBS 4-8=-709/778, 4-9=-255/203

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-0-0 zone; porch left 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.

5-0-0

- 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.
- 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) except (jt=lb) 8=157, 2=177.



November 28,2023



818 Soundside Road Edenton, NC 27932

162214199 J1123-6661 Valley VB1 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:29 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-2-8 5-2-8 5-2-8 Scale = 1:22.6 4x4 = 8 8.00 12 3x4 / 3x4 × 2x4 || 0-0-9 0-0-9 10-5-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.23 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 36 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

Qty

Lot 17 Heritage @ NC

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

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

LUMBER-

Job

Truss

Truss Type

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

OTHERS 2x4 SP No.2

REACTIONS.

1=10-3-15, 3=10-3-15, 4=10-3-15 (size) Max Horz 1=-76(LC 8) Max Uplift 1=-23(LC 12), 3=-31(LC 13)

Max Grav 1=187(LC 1), 3=187(LC 1), 4=380(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-2-8, Exterior(2) 5-2-8 to 9-7-5, Interior(1) 9-7-5 to 9-11-2 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.
- * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



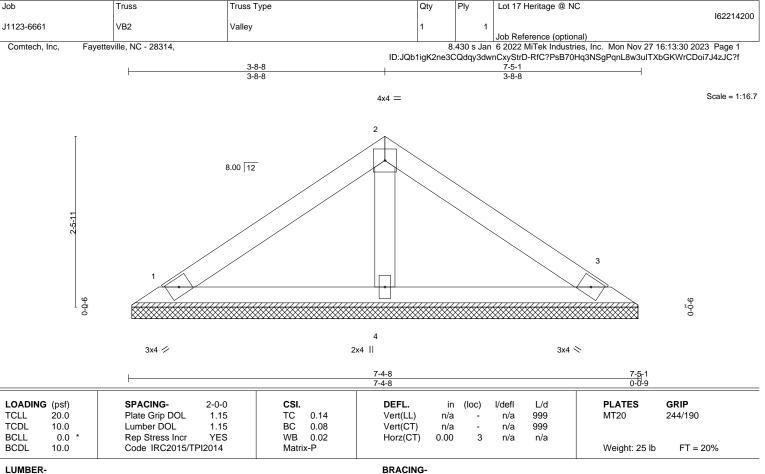


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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=7-3-15, 3=7-3-15, 4=7-3-15 (size) Max Horz 1=-52(LC 8) Max Uplift 1=-22(LC 12), 3=-27(LC 13)

Max Grav 1=140(LC 1), 3=140(LC 1), 4=235(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 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 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.
- 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.

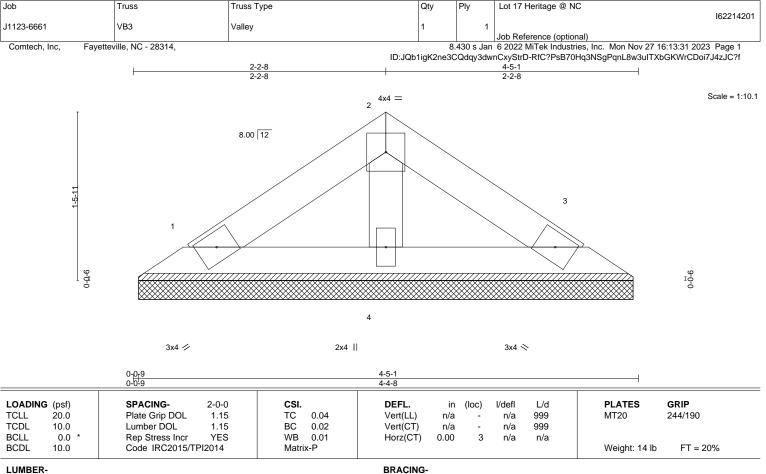


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TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

1=4-3-15, 3=4-3-15, 4=4-3-15 (size) Max Horz 1=28(LC 11) Max Uplift 1=-12(LC 12), 3=-14(LC 13) Max Grav 1=75(LC 1), 3=75(LC 1), 4=125(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 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 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.
- 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 4-5-1 oc purlins.

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



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Job Truss Truss Type Qty Lot 17 Heritage @ NC 162214202 J1123-6661 VC1 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:32 2023 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

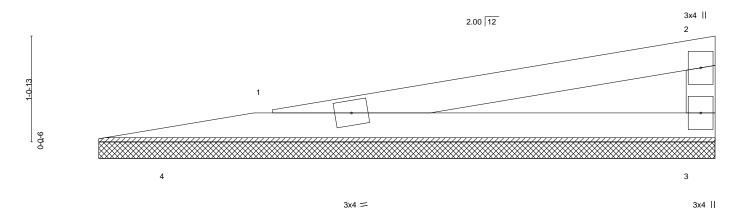
Structural wood sheathing directly applied or 6-4-12 oc purlins,

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

except end verticals.

6-4-12

Scale = 1:11.6



0-2-4 0-2-4			6-4-12 6-2-8			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	()	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) n/a	- n/a	999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) n/a	- n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	1 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P				Weight: 17 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 1=6-2-8, 3=6-2-8, 4=6-2-8 (size) Max Horz 4=24(LC 8) Max Uplift 3=-26(LC 8), 4=-59(LC 3)

Max Grav 1=245(LC 3), 3=164(LC 1)

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 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) 3, 4.
- 5) Non Standard bearing condition. Review required.





Truss Type Qty Lot 17 Heritage @ NC 162214203 J1123-6661 VD1 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Nov 27 16:13:33 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4-5-14 4-5-14 Scale = 1:20.5 4x4 = 2 8.00 12 3 9-0-0 9-0-0 3x4 / 3x4 × 2x4 || 8-11-13 0-0-9 8-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.23 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 31 lb FT = 20% **BRACING-**LUMBER-

TOP CHORD

BOT CHORD

Job

Truss

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

REACTIONS.

1=8-10-11, 3=8-10-11, 4=8-10-11 (size) Max Horz 1=-64(LC 8) Max Uplift 1=-27(LC 12), 3=-34(LC 13)

Max Grav 1=174(LC 1), 3=174(LC 1), 4=292(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 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 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.
- 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.

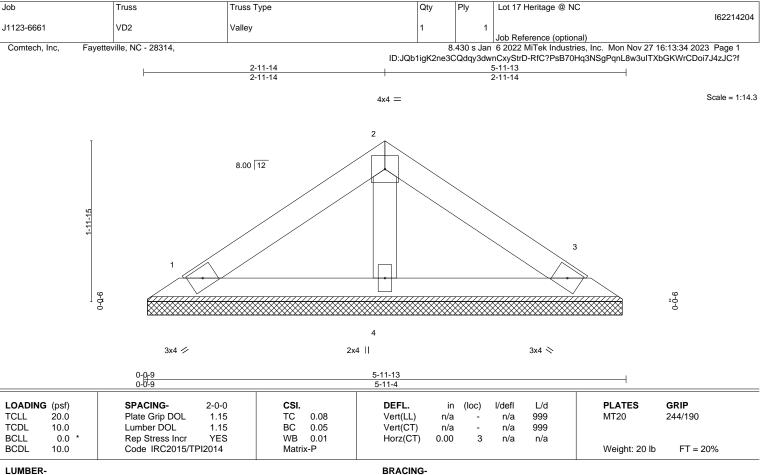


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TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=5-10-11, 3=5-10-11, 4=5-10-11 (size) Max Horz 1=40(LC 9) Max Uplift 1=-17(LC 12), 3=-21(LC 13)

Max Grav 1=109(LC 1), 3=109(LC 1), 4=182(LC 1)

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

NOTES-

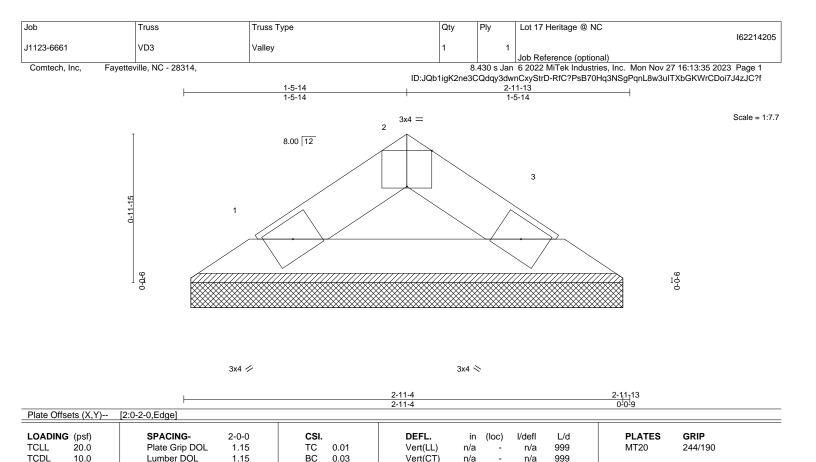
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip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

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





Horz(CT)

BRACING-

TOP CHORD **BOT CHORD**

0.00

3

n/a

n/a

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

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

1=2-10-11, 3=2-10-11 (size)

Rep Stress Incr

Code IRC2015/TPI2014

Max Horz 1=-16(LC 10) Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=80(LC 1), 3=80(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 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

WB

Matrix-P

0.00

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

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



FT = 20%

Weight: 8 lb

Structural wood sheathing directly applied or 2-11-13 oc purlins.



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Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y 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 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/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

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

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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.

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- 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
- 11. 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
- 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.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. 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.