

RE: J0721-4252

Cates\Lot 693 Lexington Plantation

Trenco 818 Soundside Rd Edenton, NC 27932

Truss Name

VC02

VC03

VC04

Date

8/12/2021

8/12/2021

8/12/2021

**Site Information:** 

Customer: Project Name: J0721-4252

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 8.4

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

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#
1	E15843080	A1	8/12/2021	21	E15843100
2	E15843081	A1-GE	8/12/2021	22	E15843101
3	E15843082	A2	8/12/2021	23	E15843102
4	E15843083	A3	8/12/2021		
5	E15843084	A4	8/12/2021		
6	E15843085	B1	8/12/2021		
7	E15843086	B1-GE	8/12/2021		
8	E15843087	C1	8/12/2021		
9	E15843088	D1-GE	8/12/2021		
10	E15843089	E1	8/12/2021		
11	E15843090	E1-GE	8/12/2021		
12	E15843091	H01	8/12/2021		
13	E15843092	J01	8/12/2021		
14	E15843093	J02	8/12/2021		
15	E15843094	M1	8/12/2021		
16	E15843095	M2	8/12/2021		
17	E15843096	M3	8/12/2021		
18	E15843097	M4	8/12/2021		
19	E15843098	M5	8/12/2021		
20	E15843099	VC01	8/12/2021		

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

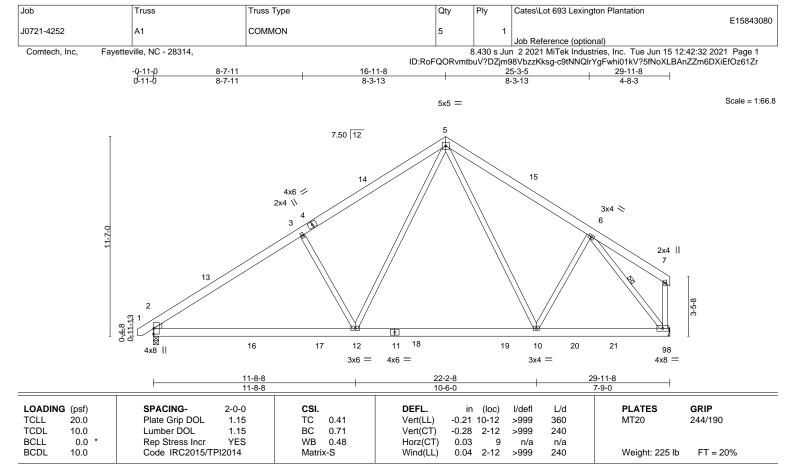
My license renewal date for the state of North Carolina is December 31, 2021

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.



August 12, 2021



LUMBER-

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

WEDGE

Left: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-6 oc purlins,

except end verticals.

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

WFBS 1 Row at midpt 6-9

REACTIONS.

(size) 2=0-3-8, 9=Mechanical Max Horz 2=262(LC 7)

Max Uplift 2=-108(LC 10), 9=-77(LC 11) Max Grav 2=1532(LC 17), 9=1483(LC 18)

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

TOP CHORD 2-3=-2072/411. 3-5=-1895/491. 5-6=-1462/424 BOT CHORD 2-12=-315/1798, 10-12=-86/1077, 9-10=-195/995

**WEBS** 3-12=-521/315, 5-12=-183/1174, 5-10=-94/370, 6-10=-37/353, 6-9=-1640/330

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 25-3-15, Exterior(2) 25-3-15 to 29-8-12 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 40.0psf 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) 9 except (jt=lb) 2=108.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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



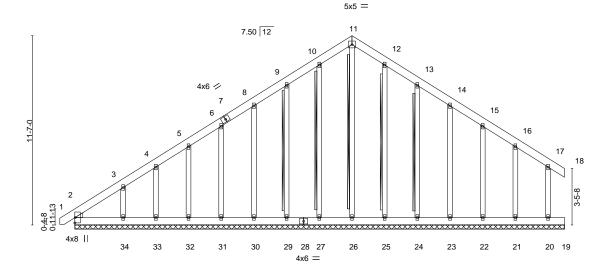
Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843081 J0721-4252 A1-GE **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:33 2021 Page 1 ID:RoFQORvmtbuV?DZjm98VbzzKksg-4LRlammTJzNnJrbDICWKCaLoUbhmI4HFRBSoBqz61Zq 19-1-4 29-11-8

4-3-8 10-10-4

Scale = 1:70.5



29-11-8

14-9-12

14-9-12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 288 lb	FT = 20%

LUMBER-

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

Left: 2x4 SP No.2

**BRACING-**

TOP CHORD **BOT CHORD** WFBS

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

2x4 SPF No.2 - 10-27, 9-29, 11-26, 12-25, T-Brace:

13-24

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 29-11-8.

Max Horz 2=322(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 18, 27, 29, 30, 31, 32, 33, 26, 25, 23, 22, 21, 20 except

2=-166(LC 6), 34=-176(LC 10), 24=-107(LC 11)

All reactions 250 lb or less at joint(s) 18, 27, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 19 except Max Grav

2=264(LC 18), 34=289(LC 17), 26=327(LC 11)

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

TOP CHORD 2-3=-381/368, 3-4=-299/294, 4-5=-276/288, 5-6=-259/284, 6-8=-240/317, 8-9=-227/357,

9-10=-290/405, 10-11=-316/411, 11-12=-316/397, 12-13=-290/362, 13-14=-227/283

**WEBS** 

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-15 to 3-7-14, Exterior(2) 3-7-14 to 12-7-3, Corner(3) 12-7-3 to 21-4-13, Exterior(2) 21-4-13 to 25-7-3, Corner(3) 25-7-3 to 30-0-0 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 40.0psf 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) 18, 27, 29, 30, 31, 32, 33, 26, 25, 23, 22, 21, 20 except (jt=lb) 2=166, 34=176, 24=107.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 15,2021



Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843082 J0721-4252 A2 COMMON 5 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:35 2021 Page 1 ID:RoFQORvmtbuV?DZjm98VbzzKksg-0kZV?RnjrbdVY9lbQdZoH?Q2jOBRmwYYvVxuGjz61Zo

29-11-8

Structural wood sheathing directly applied or 5-0-13 oc purlins,

6-9

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

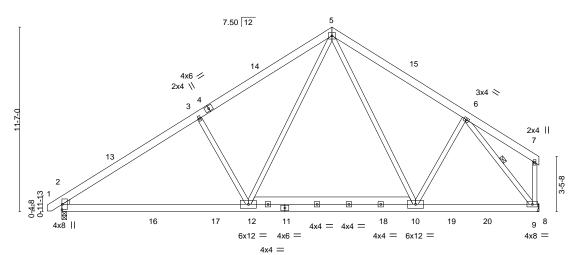
except end verticals.

1 Row at midpt

8-7-11 8-7-11 16-11-8 25-3-5 29-11-8 8-3-13 8-3-13 4-8-3

5x5 =

Scale = 1:72.3



11-8-8 10-6-0 7-9-0 DEFL. GRIP LOADING (psf) SPACING-2-0-0 CSI. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.17 2-12 >999 360 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.71 Vert(CT) -0.30 2-12 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.48 Horz(CT) 0.03 9 n/a n/a Code IRC2015/TPI2014 2-12 BCDL 10.0 Matrix-S Wind(LL) 0.04 >999 240 Weight: 248 lb FT = 20%

22-2-8

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.2 \*Except\* **WEBS** 10-12: 2x6 SP No.1

WEDGE

Left: 2x4 SP No.2

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

Max Horz 2=262(LC 7)

Max Uplift 2=-108(LC 10), 9=-77(LC 11) Max Grav 2=1515(LC 17), 9=1463(LC 18)

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

TOP CHORD 2-3=-2101/422, 3-5=-1909/491, 5-6=-1454/427 **BOT CHORD** 2-12=-325/1829, 10-12=-87/1081, 9-10=-201/994

**WEBS** 3-12=-517/315, 5-12=-182/1193, 5-10=-92/354, 6-10=-37/345, 6-9=-1616/339

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 25-3-15, Exterior(2) 25-3-15 to 29-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

11-8-8

- 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 40.0psf 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) 9 except (jt=lb)
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2021

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



Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843083 J0721-4252 COMMON 4 A3 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:36 2021 Page 1 Comtech, Inc. ID:RoFQORvmtbuV?DZjm98VbzzKksg-Uw7tCnoLculLAJKozL41pDzCvoXTVMxh79gSo9z61Zn 16-11-8 33-10-0 8-6-2 8-5-6 8-7-0 Scale = 1:69.7 5x5 = 5 7.50 12 16 2x4 // 4x6 / 4x6 <> 2x4 \\ 6 3 8<sup>4x4</sup> > 4x4 > 17 18 13 19 12 20 1110 22 3x6 =4x6 = 3x6 =6x8 = 11-2-10 22-4-9 33-10-0 11-2-10 11-1-15 11-5-7 Plate Offsets (X,Y)--[9:0-3-11,0-0-4], [11:0-3-9,0-0-0] 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 0.50 Vert(LL) -0.26 10-13 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.72 Vert(CT) -0.33 10-13 >999 240 WB 0.53 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.05 n/a n/a

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.05 2-13 >999

240

Structural wood sheathing directly applied or 4-8-8 oc purlins.

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

Weight: 238 lb

FT = 20%

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SP No.2

**SLIDER** Right 2x4 SP No.2 5-0-1

REACTIONS.

(size) 2=0-3-8, 9=0-2-0 Max Horz 2=266(LC 7)

Max Uplift 2=-119(LC 10), 9=-106(LC 11) Max Grav 2=1746(LC 17), 9=1696(LC 18)

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

Code IRC2015/TPI2014

 $2\text{-}3\text{--}2475/478,\ 3\text{-}5\text{--}2317/573,\ 5\text{-}7\text{--}2270/563,\ 7\text{-}9\text{--}2444/482}$ BOT CHORD 2-13=-255/2150, 10-13=-27/1430, 9-10=-253/1927

**WEBS** 3-13=-506/314, 5-13=-195/1155, 5-10=-186/1139, 7-10=-499/319

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 29-5-11, Exterior(2) 29-5-11 to 33-10-8 zone; 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 40.0psf 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)
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843084 J0721-4252 **GABLE** A4 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:38 2021 Page 1 Comtech, Inc. ID:RoFQORvmtbuV?DZjm98VbzzKksg-RJFedTqb8W?3PdUA5l6Vve2Y3cFGzEV\_bT9Zs2z61Zl 19-1-3 8-0-2 15-11-8 16-11<sub>7</sub>8 23-10-14 26-3-14 33-10-0 -0-11-0 0-11-0 4-9-11 7-11-6 1-0-0 2-1-11 Scale = 1:77.7 5x8 = 5x5 = 7.50 12 5 6 32 31 488-1/11 8x8 > 4x6 < 12 10-2-30 9 34 35 18 36 17 37 16 15 38 39 3x10 || 4x8 II 5x12 = 3x6 = 4x6 = 3x6 = 6x6 = 8-0-2 10-7-15 17-1-3 19-1-3 21-3-1 2-0-0 2-1-14 26-3-14 31-11-8 33-10-0 8-0-2 2-7-13 5-0-13 5-7-10 1-10-8 Plate Offsets (X,Y)--[8:0-4-0,0-4-8], [14:0-2-4,0-3-0] 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 0.46 Vert(LL) -0.23 16-18 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.64 Vert(CT) -0.30 16-18 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.65 Horz(CT) 0.05 14 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.06 2-18 >999 240 Weight: 285 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

**BOT CHORD** 

JOINTS

Except:

1 Row at midpt

1 Brace at Jt(s): 10

TOP CHORD

2x6 SP No 1 2x6 SP No.1

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

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.2 1-6-8

REACTIONS. (size) 2=0-3-8, 14=0-3-8

Max Horz 2=332(LC 7)

Max Unlift 2=-312(LC 10) 14=-311(LC 11) Max Grav 2=1637(LC 17), 14=1689(LC 18)

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

2-3=-2303/453, 3-5=-2149/538, 5-6=-473/273, 5-7=-1631/371, 7-10=-1552/345, 10-11=-1538/331, 11-14=-1690/513, 6-9=-659/299, 9-13=-595/0

**BOT CHORD** 2-18=-433/2053, 16-18=-131/1379, 14-16=-236/1783, 13-14=0/420

**WEBS** 

5-18=-274/1076, 3-18=-478/389, 5-16=-270/1004, 10-16=-450/390, 9-11=-627/497

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 29-5-11, Exterior(2) 29-5-11 to 33-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 40.0psf 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) except (jt=lb) 2=312, 14=311, 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 15,2021



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

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

5-10. 10-14

						ciciciice (optional)	
Comtech, Inc,	Fayetteville	, NC - 28314,				21 MiTek Industries, Inc. Tue	Jun 15 12:42:39 2021 Page 1
, ,	•			ID:Ro		zzKksg-vVp0rpqEvp7w1n3NfT	
	-0-11-0	8-0-2	15-11-8		23-10-14	31-11-0	32-10-0
	-0-11-0 0-11-0	8-0-2	7-11-6		7-11-6	8-0-2	32-10 <sub>-</sub> 0 0-11-0
				5x5 =			Scale = 1:64.8
			7.50 12	5			
				////			
			//	/ // \\ `	15		
			4x6 / 14	// \\		x6 ≪	
		2	2x4 \\ 4	// \\	6		
			3 1	// \		7	
10-11-8			3/4/ /	'/	//	<b>,</b>	
,-		/		,			
					\\ //		
		13	\\		\\	16	
					\\ //		
	2 /	//	\\ //		\\ //		
	m 1 /		\\ //		\\ //		8 -8
α	0-1-13			[ <b>6</b> ]			9 1-1 14-0
1 3	유유 💆	17	18 12 19	11	20 10 2	1 22	4x8
	4x8	17	3x6 =	5x8 =	3x6 =	1 22	4x8
			340 —	3x0 —	3,0 —		
		10-7-15		21-3-1	-	31-11-0	
		10-7-15	<u>'</u>	10-7-3	· · · · · · · · · · · · · · · · · · ·	10-7-15	'
LOADING (psf)		SPACING- 2-0	-0 <b>CSI.</b>	DEFL.	in (loc) I/defl	L/d <b>PLATE</b>	S GRIP
TCLL 20.0		Plate Grip DOL 1.1	15 TC 0.45	Vert(LL)	-0.23 10-12 >999	360 MT20	244/190
TOD! 40.0				\\\(\(\frac{1}{2}\)	0.00 40 40 000	0.40	

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

-0.29 10-12

8

2-12

0.04

0.04

>999

>999

n/a

240

n/a

240

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

Structural wood sheathing directly applied or 4-11-15 oc purlins.

Weight: 220 lb

FT = 20%

Qty

5

Ply

Cates\Lot 693 Lexington Plantation

Job Reference (optional)

E15843085

LUMBER-

TCDL

**BCLL** 

**BCDL** 

Job

J0721-4252

Truss

B1

Truss Type

COMMON

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

10.0

10.0

0.0

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-251(LC 8)

Max Uplift 2=-112(LC 10), 8=-112(LC 11) Max Grav 2=1607(LC 17), 8=1607(LC 18)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

2-3=-2262/449, 3-5=-2108/534, 5-7=-2108/534, 7-8=-2263/449

**BOT CHORD** 2-12=-242/1964, 10-12=-27/1306, 8-10=-242/1778

WEBS  $5-10=-179/1056,\ 7-10=-473/296,\ 5-12=-179/1056,\ 3-12=-473/296$ 

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-7-3, Exterior(2) 11-7-3 to 20-4-13, Interior(1) 20-4-13 to 28-4-2, Exterior(2) 28-4-2 to 32-8-15 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.

1.15

YES

ВС

WB

Matrix-S

0.62

0.43

- 4) \* This truss has been designed for a live load of 40.0psf 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=112. 8=112.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843086 J0721-4252 **GABLE** B1-GE Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:40 2021 Page 1 Comtech, Inc.

ID:RoFQORvmtbuV?DZjm98VbzzKksg-NiMO29rsg7FnfweZCA8z\_38?0P4JRFgH2nefxwz61Zj 31-11-0 32-10<sub>-</sub>0 0-11-0 13-9-14 13-9-14 13-9-14

Scale = 1:70.0

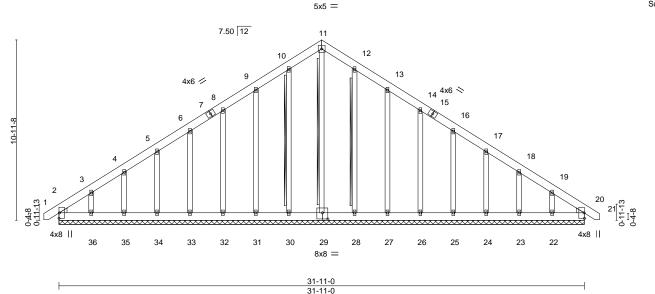


Plate Offsets (X,Y)--[29:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) -0.00 20 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 20 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.16 Horz(CT) 0.01 20 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 290 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

**BRACING-**

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 11-29, 10-30, 12-28

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 31-11-0. (lb) -

Max Horz 2=314(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 30, 31, 32, 33, 34, 35, 28, 26, 25, 24, 23, 20 except

2=-106(LC 6), 36=-160(LC 10), 27=-100(LC 11), 22=-145(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 20 22

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

TOP CHORD 2-3=-346/260, 9-10=-216/252, 10-11=-249/277, 11-12=-249/278, 19-20=-265/170

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-15 to 3-7-14, Exterior(2) 3-7-14 to 11-7-3, Corner(3) 11-7-3 to 20-4-13, Exterior(2) 20-4-13 to 28-4-2, Corner(3) 28-4-2 to 32-8-15 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 study 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 40.0psf 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) 30, 31, 32, 33, 34, 35, 28, 26, 25, 24, 23, 20 except (jt=lb) 2=106, 36=160, 27=100, 22=145.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 15,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843087 J0721-4252 C1 **GABLE** Job Reference (optional)

7-8-15 3-8-15

Fayetteville, NC - 28314, Comtech, Inc.

4-0-0 4-0-0

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:42 2021 Page 1 ID:RoFQORvmtbuV?DZjm98VbzzKksg-J4U8Trt6CkVVuEnyKbBR3UDFODeVvA\_aW57m0pz61Zh 9-9-8 2-0-9 11-10-1 15-7-0 19-7-0 2-0-9 3-8-15 4-0-0

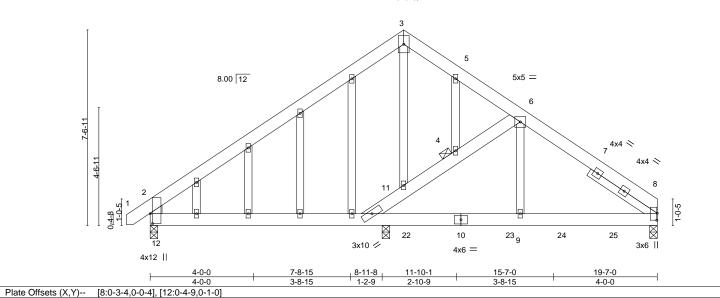
> Scale = 1:44.5 5x8 ||

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

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

except end verticals.

1 Brace at Jt(s): 4



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 0.44	Vert(LL) -0.04 11-12 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.08 11-12 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.01 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 11-12 >999 240	Weight: 164 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**JOINTS** 

LUMBER-

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

**WEBS** 2x4 SP No.2 \*Except\* 2-12: 2x6 SP No.1

**OTHERS** 2x4 SP No.2 **SLIDER** Right 2x4 SP No.2 3-1-0

REACTIONS.

(size) 8=0-3-8, 12=0-3-8, 11=0-3-8 Max Horz 12=216(LC 7)

Max Uplift 8=-97(LC 8), 12=-252(LC 27)

Max Grav 8=883(LC 1), 12=637(LC 15), 11=757(LC 20)

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

TOP CHORD 2-3=-567/251, 3-5=-401/304, 5-6=-496/354, 6-8=-1036/187, 4-11=-645/128,

4-6=-587/131, 2-12=-584/314 **BOT CHORD** 11-12=-164/442, 9-11=-76/764, 8-9=-76/764

**WEBS** 6-9=0/451

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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 40.0psf 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) Solid blocking is required on both sides of the truss at joint(s), 11.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 12=252.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down at 9-11-4, 123 lb down at 11-11-4, 123 lb down at 13-11-4, and 123 lb down at 15-11-4, and 123 lb down at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

June 15,2021



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Job	Truss	Truss Type	Qty	Ply	Cates\Lot 693 Lexington Plantation
					E15843087
J0721-4252	C1	GABLE	1	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:42 2021 Page 2 ID:RoFQORvmtbuV?DZjm98VbzzKksg-J4U8Trt6CkVVuEnyKbBR3UDFODeVvA\_aW57m0pz61Zh

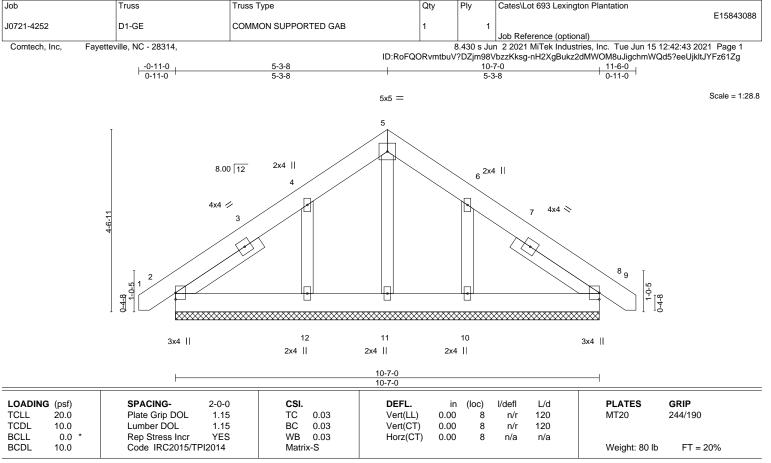
### LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 3-6=-60, 6-8=-60, 8-12=-20

Concentrated Loads (lb)

Vert: 10=-123(F) 22=-123(F) 23=-123(F) 24=-123(F) 25=-123(F)



LUMBER-

BRACING-

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

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.

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. All bearings 10-7-0.

(lb) -Max Horz 2=121(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 12=-156(LC 10), 10=-150(LC 11) Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11 except 12=284(LC 17), 10=277(LC 18)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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) 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.
- 7) \* This truss has been designed for a live load of 40.0psf 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) 2, 8 except (jt=lb) 12=156, 10=150.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2021



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

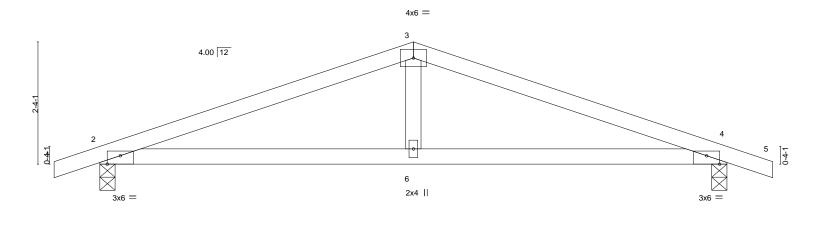
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Job	Truss	Truss Type	Qty	Ply	Cates\Lot 693 Lexington Plantation	
						E15843089
J0721-4252	E1	Common	4	1		
					Job Reference (optional)	
Comtech, Inc, Faye	tteville, NC - 28314,			3.430 s Jur	2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:44 20	021 Page 1
		I	ID:RoFQORvmtbu	/?DZjm98	VbzzKksg-GTcvuWuMkMlD7YxKR0Dv8vlcw1NxN5Dtzl	Pct4hz61Zf
, -0-10-8 <sub>1</sub>	6	-0-0	ı	-	12-0-0	12-10-8
0-10-8	6	-0-0			6-0-0	0-10-8

Scale = 1:22.0



			6-0-0							6-0-0		1
Plate Offse	ets (X,Y)	[2:0-3-0,Edge], [4:0-3-0,E	dge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.08	2-6	>999	240	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	12014	Matrix	-S						Weight: 42 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 **WEBS** 

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-27(LC 15)

Max Uplift 2=-217(LC 6), 4=-217(LC 7) Max Grav 2=530(LC 1), 4=530(LC 1)

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

TOP CHORD 2-3=-859/1008 3-4=-859/1008 **BOT CHORD** 2-6=-865/759, 4-6=-865/759

WFBS 3-6=-371/281

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6-0-0

- 4) \* This truss has been designed for a live load of 40.0psf 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) except (jt=lb) 2=217, 4=217.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-11-14 oc purlins.

Rigid ceiling directly applied or 6-5-11 oc bracing.



JOD	I russ	Iruss Type	Qty	Ply	Cates\Lot 693 Lexington Plantation		
				1		E15843090	
J0721-4252	E1-GE	GABLE	1	1			
					Job Reference (optional)		
Comtech, Inc, Fa	ayetteville, NC - 28314,			8.430 s Ju	n 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:45 2	021 Page 1	
			ID:RoFQORvmt	ouV?DZjm9	8VbzzKksg-kfAH5sv_Uft4liWW?kk8h6rngQjA6YS0C3N	/IQc8z61Ze	
, -0-10-8 <sub>1</sub>		6-0-0	1	-	12-0-0	12-10-8	
0-10-8		6-0-0			6-0-0	0-10-8	

Scale = 1:22.0

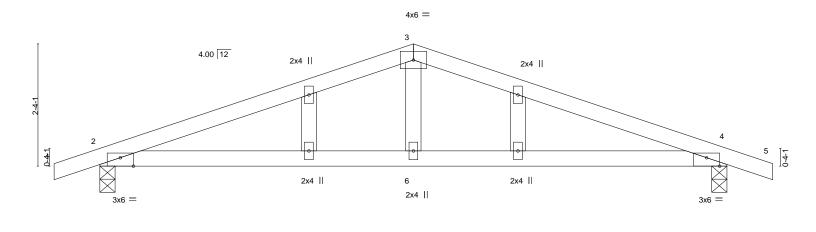


Plate Offsets (X,Y)	[2:0-3-0,Edge], [4:0-3-0,Edge]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.37 BC 0.30 WB 0.06	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         0.08         4-6         >999         240           Vert(CT)         -0.07         4-6         >999         240           Horz(CT)         0.01         4         n/a         n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	11012(01) 0.01 1 1/4	Weight: 46 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

12-0-0

6-0-0

Structural wood sheathing directly applied or 5-11-14 oc purlins.

Rigid ceiling directly applied or 6-5-11 oc bracing.

LUMBER-

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=46(LC 10)

Max Uplift 2=-305(LC 6), 4=-305(LC 7) Max Grav 2=530(LC 1), 4=530(LC 1)

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

TOP CHORD 2-3=-859/1008, 3-4=-859/1008

**BOT CHORD** 2-6=-865/759, 4-6=-865/759

WEBS 3-6=-371/281

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 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.

6-0-0

6-0-0

- 6) \* This truss has been designed for a live load of 40.0psf 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



E15843091 J0721-4252 H01 FLAT GIRDER 2 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:48 2021 Page 1 Comtech, Inc. ID:RoFQORvmtbuV?DZjm98VbzzKksg-8ErQjuxtnaGec9F5gsHrJITDgegaJjxSu1a4DTz61Zb 13-10-13 21-0-0

6-9-11

Qty

Ply

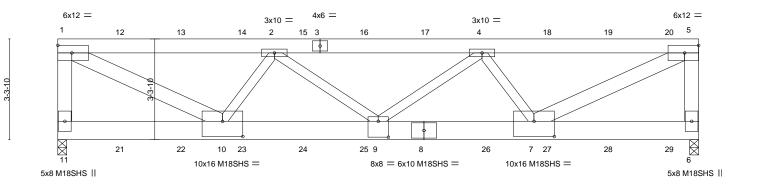
Cates\Lot 693 Lexington Plantation

Structural wood sheathing directly applied or 3-9-1 oc purlins,

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

except end verticals.

Scale = 1:37.8



	<u> </u>	5-4-12 5-4-12	+	10-6-0 5-1-4	+	15-7-4 5-1-4		+	21-0-0 5-4-12	——
Plate Offse	ets (X,Y)	[7:0-8-0,0-6-0], [9:0-4-0,0	-6-4], [10:0-8-	0,0-6-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.18	9 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.31 9-	10 >793	240	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.78	Horz(CT)	0.04	6 n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matrix-S	Wind(LL)	0.10	9 >999	240	Weight: 340 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x8 SP 2400F 2.0E

2x6 SP No.1 \*Except\* **WEBS** 2-10,2-9,4-9,4-7: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 6=0-3-8

Max Uplift 11=-777(LC 4), 6=-792(LC 4) Max Grav 11=7715(LC 2), 6=8431(LC 2)

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

TOP CHORD 1-11=-6465/721, 1-2=-11811/1056, 2-4=-15434/1402, 4-5=-11806/1061, 5-6=-6426/696

**BOT CHORD** 10-11=-50/339, 9-10=-1303/13187, 7-9=-1309/13194, 6-7=-53/362

WFBS 1-10=-1143/13018, 2-10=-2629/472, 2-9=-127/2898, 4-9=-119/2890, 4-7=-2652/474,

5-7=-1145/12985

### NOTES-

Job

Truss

Truss Type

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: 2x8 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 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) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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 40.0psf 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) except (jt=lb) 11=777, 6=792.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2021

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Job	Truss	Truss Type	Qty	Ply	Cates\Lot 693 Lexington Plantation	
J0721-4252	H01	  FLAT GIRDER	1	_		E15843091
30721-4232		I LAT GINDLIN	'	2	Job Reference (optional)	

Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:48 2021 Page 2

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### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 67 lb up at 0-2-12, 96 lb down and 70 lb up at 2-0-12, 96 lb down and 70 lb up at 4-0-12, 96 lb down and 70 lb up at 6-0-12, 96 lb down and 70 lb up at 10-0-12, 98 lb down and 73 lb up at 12-0-12, 98 lb down and 73 lb up at 14-0-12, 98 lb down and 73 lb up at 14-0-12, and 95 lb down and 72 lb up at 20-0-12 on top chord, and 30 lb down at 2-0-12, 1423 lb down and 97 lb up at 2-0-12, 30 lb down at 4-0-12, 1423 lb down and 97 lb up at 4-0-12, 30 lb down at 6-0-12, 1423 lb down and 97 lb up at 6-0-12, 30 lb down at 8-0-12, 1423 lb down and 97 lb up at 8-0-12, 30 lb down at 10-0-12, 1423 lb down and 97 lb up at 10-0-12, 31 lb down at 12-0-12, 1403 lb down and 97 lb up at 12-0-12, 31 lb down at 14-0-12, 1403 lb down and 97 lb up at 14-0-12, 31 lb down and 97 lb up at 16-0-12, 31 lb down at 18-0-12, 1403 lb down and 97 lb up at 18-0-12, and 37 lb down at 20-0-12, and 1406 lb down and 94 lb up at 20-0-12 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: 1-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 1=-73(F) 8=-1182(F=-16, B=-1166) 4=-47(F) 12=-38(F) 13=-38(F) 14=-38(F) 15=-38(F) 16=-38(F) 17=-47(F) 18=-47(F) 19=-47(F) 20=-56(F) 21=-1181(F=-15, B=-1166) 22=-1181(F=-15, B=-1166) 23=-1181(F=-15, B=-1166) 24=-1181(F=-15, B=-1166) 25=-1181(F=-15, B=-1166) 26=-1182(F=-16, B=-1166) 27=-1182(F=-16, B=-1166) 28=-1182(F=-16, B=-1166) 29=-1188(F=-19, B=-1169)



Job	Truss	Truss Type	Qty	Ply	Cates\Lot 693 Lexington Plantation
J0721-4252	J01	JACK-OPEN	6	1	E15843092
					Joh Reference (ontional)

Comtech, Inc,

Fayetteville, NC - 28314,

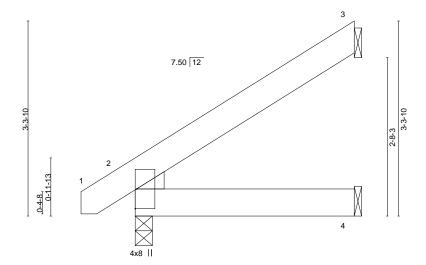
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:49 2021 Page 1 ID:RoFQORvmtbuV?DZjm98VbzzKksg-cQPoxEyVYuOVEJqIEZp4ry?WB1882MRc7hKelvz61Za

Structural wood sheathing directly applied or 3-9-0 oc purlins.

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

-0-11-0 0-11-0 3-8-8

Scale = 1:19.5



3-9-0

**BRACING-**

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.08	DEFL. ir Vert(LL) -0.00		l/defl >999	L/d 360	PLATES         GRIP           MT20         244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.04 WB 0.00 Matrix-P	Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	3	>999 n/a ****	240 n/a 240	Weight: 23 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=90(LC 10)

Max Uplift 3=-70(LC 10)

Max Grav 3=112(LC 17), 2=203(LC 1), 4=70(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



Job	Truss	Truss Type	Qty	Ply	Cates\Lot 693 Lexington Plantation
					E15843093
J0721-4252	J02	JACK-OPEN	5	1	Joh Deference (entional)

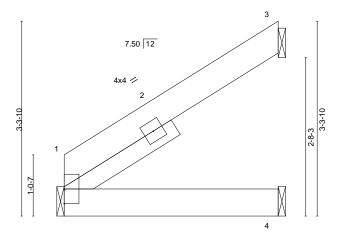
Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:50 2021 Page 1 ID:RoFQORvmtbuV?DZjm98VbzzKksg-4dzA8az7JCWMrTOUoHKJOAYhpRULnphlLL3BILz61ZZ

Structural wood sheathing directly applied or 3-7-8 oc purlins.

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

Scale = 1:19.5



3x6 ||

	3-7-8
	3-7-8

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL)	-0.00	1-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	-0.00	1-4	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	1	****	240	Weight: 22 lb	FT = 20%

**BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

Left 2x4 SP No.2 2-1-14 SLIDER

REACTIONS. (size) 1=Mechanical, 3=Mechanical, 4=Mechanical

Max Horz 1=90(LC 10) Max Uplift 3=-72(LC 10)

Max Grav 1=143(LC 1), 3=120(LC 17), 4=71(LC 3)

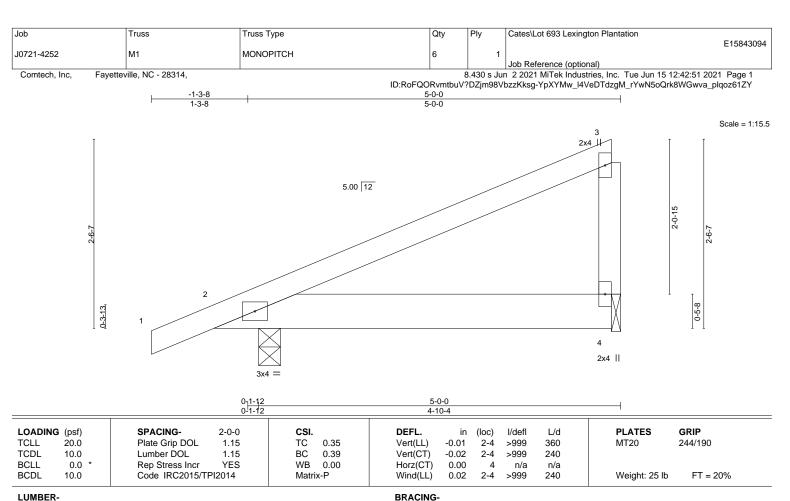
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

2x4 SP No.2 WFBS

> (size) 4=0-1-8, 2=0-3-8 Max Horz 2=80(LC 10)

Max Uplift 4=-69(LC 6), 2=-82(LC 6)

Max Grav 4=199(LC 1), 2=271(LC 1)

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

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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 40.0psf 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals

June 15,2021

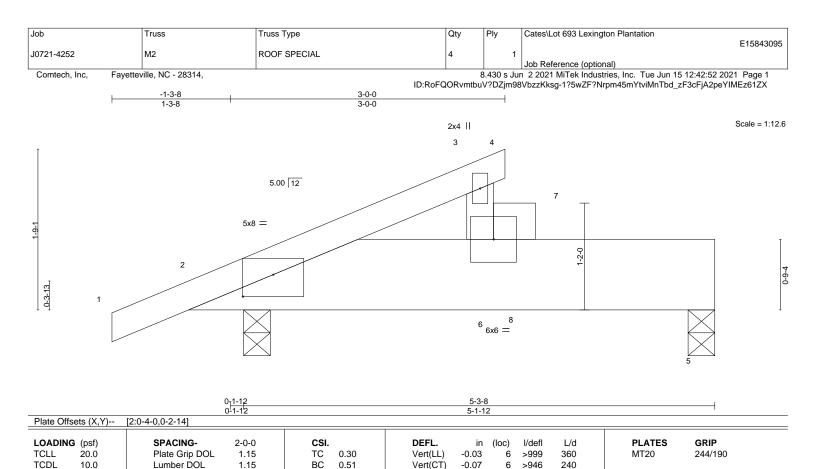


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Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

BOT CHORD

0.00

0.06

5

6 >999

n/a

except end verticals.

n/a

240

Rigid ceiling directly applied or 9-0-12 oc bracing.

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

Weight: 32 lb

FT = 20%

LUMBER-

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E

0.0

10.0

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

6-7: 2x6 SP No.1

REACTIONS. (size) 5=0-3-8, 2=0-3-8 Max Horz 2=54(LC 10)

Max Uplift 5=-217(LC 10), 2=-146(LC 10) Max Grav 5=1784(LC 1), 2=1122(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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=5.0psf; 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

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

NO

- 3) \* This truss has been designed for a live load of 40.0psf 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) except (jt=lb) 5=217. 2=146.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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, 2-6=-20, 5-6=-130

Concentrated Loads (lb)

Vert: 8=-2300



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Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843096 J0721-4252 МЗ MONOPITCH TRUSS 6 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:52 2021 Page 1 Comtech, Inc. ID:RoFQORvmtbuV?DZjm98VbzzKksg-1?5wZF?Nrpm45mYtviMnTbd18F9KFjA2peYIMEz61ZX -1-3-8 1-3-8 Scale = 1:11.4 5.00 12 1-4-15 2 0-6-1 0-3-8 2x4 || 3-0-0 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 0.10 Vert(LL) -0.00 2-4 >999 360 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.08 Vert(CT) -0.01 2-4 >999 240

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

**BOT CHORD** 

-0.00

0.01

2

2-4

n/a

>999

except end verticals

n/a

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

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

Weight: 13 lb

FT = 20%

240

LUMBER-

REACTIONS.

**BCLL** 

BCDL

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

0.0

10.0

2x4 SP No.2 WFBS

> (size) 2=0-3-8, 4=0-1-8 Max Horz 4=54(LC 10)

Max Uplift 2=-75(LC 6), 4=-29(LC 6) Max Grav 2=217(LC 1), 4=83(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.00

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

YES

- 3) \* This truss has been designed for a live load of 40.0psf 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





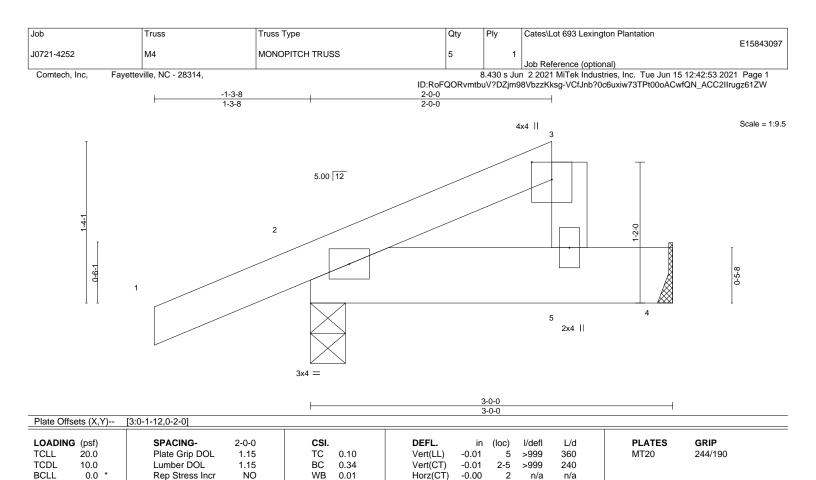


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Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.02

2-5

>999

240

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

Structural wood sheathing directly applied or 2-0-0 oc purlins.

Weight: 14 lb

FT = 20%

LUMBER-

BCDL

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

10.0

WFBS 2x4 SP No 2

REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 4=44(LC 10)

Max Uplift 4=-176(LC 6), 2=-128(LC 6) Max Grav 4=569(LC 1), 2=382(LC 1)

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

Code IRC2015/TPI2014

### NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

Matrix-S

- 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 40.0psf 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) except (jt=lb) 4=176, 2=128,
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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, 2-5=-20, 4-5=-130 Concentrated Loads (lb)

Vert: 5=-600



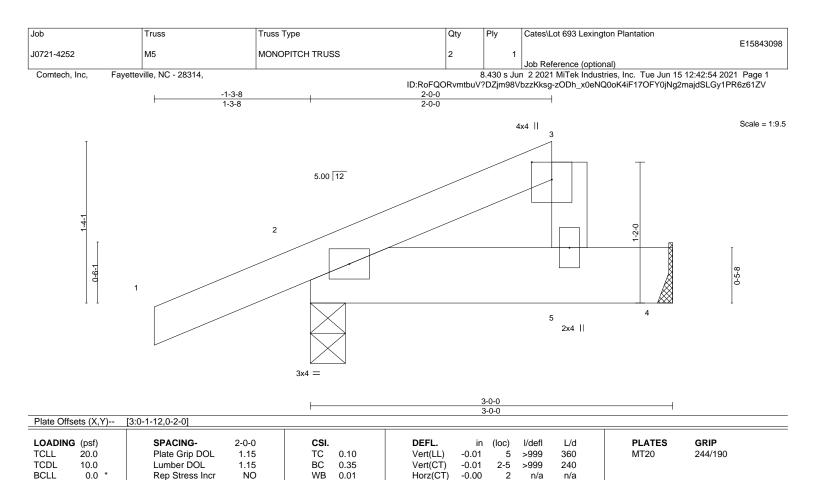
June 15,2021

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Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.02

2-5

>999

240

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

Structural wood sheathing directly applied or 2-0-0 oc purlins.

Weight: 14 lb

FT = 20%

LUMBER-

BCDL

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

10.0

WFBS 2x4 SP No 2

REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 4=44(LC 10)

Max Uplift 4=-178(LC 6), 2=-128(LC 6) Max Grav 4=576(LC 1), 2=383(LC 1)

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

Code IRC2015/TPI2014

### NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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 40.0psf 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) except (jt=lb) 4=178, 2=128,
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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, 2-5=-20, 4-5=-140

Concentrated Loads (lb) Vert: 5=-600



June 15,2021



Job Truss Truss Type Qty Ply Cates\Lot 693 Lexington Plantation E15843099 J0721-4252 VC01 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 15 12:42:55 2021 Page 1 Comtech, Inc. ID:RoFQORvmtbuV?DZjm98VbzzKksg-Ram3BH1G8k8fyEHRbqwU5DFXfSAwS3mUVcnyzZz61ZU 7-11-8 15-10-1<u>5</u> 7-11-8 Scale = 1:33.7 4x4 = 3 8.00 12 2x4 || 2x4 || 5-3-10 2 3x4 // 3x4 N 8 6 2x4 || 2x4 || 2x4 || 15-10-15 15-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.07 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 64 lb FT = 20%

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 6-0-0 oc purlins.

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

REACTIONS. All bearings 15-10-15.

Max Horz 1=119(LC 9) (lb) -

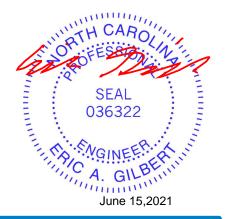
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-115(LC 10), 6=-115(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=378(LC 17), 6=378(LC 18)

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

**WEBS** 2-8=-317/225, 4-6=-317/225

### 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=5.0psf; 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 40.0psf 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 except (jt=lb) 8=115, 6=115,
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





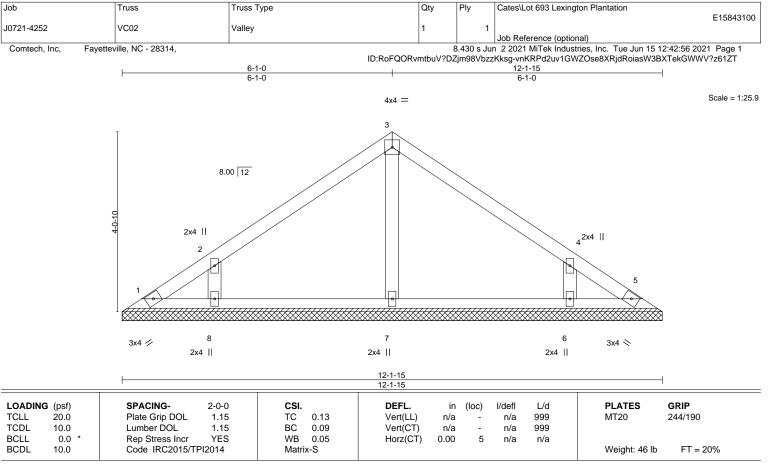


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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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 6-0-0 oc purlins.

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

REACTIONS. All bearings 12-1-15.

Max Horz 1=90(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=314(LC 17), 6=314(LC 18)

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

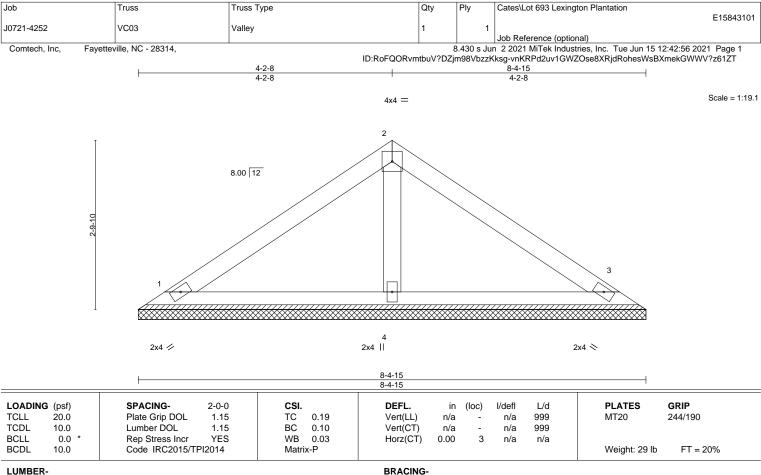
**WEBS** 2-8=-279/206, 4-6=-279/206

### 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=5.0psf; 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 40.0psf 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, 5, 8, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







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=8-4-15, 3=8-4-15, 4=8-4-15

Max Horz 1=-60(LC 6)

Max Uplift 1=-28(LC 10), 3=-34(LC 11)

Max Grav 1=162(LC 1), 3=162(LC 1), 4=272(LC 1)

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

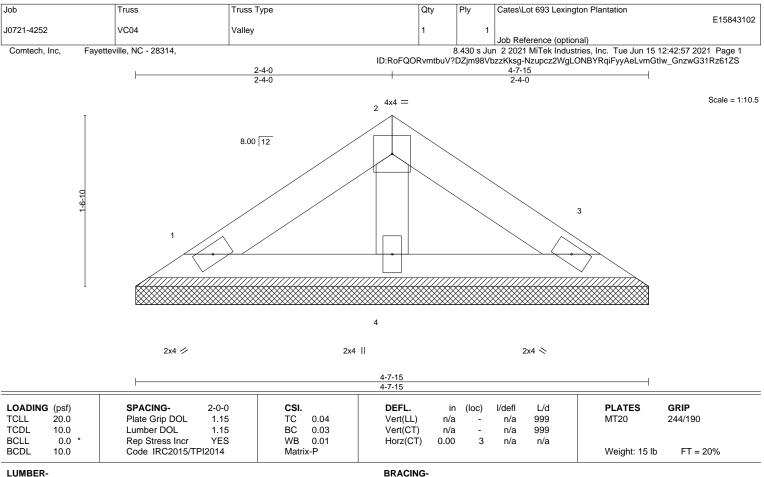
### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 40.0psf 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

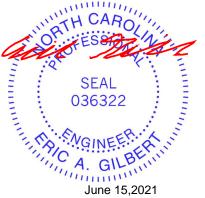
(size) 1=4-7-15, 3=4-7-15, 4=4-7-15 Max Horz 1=30(LC 7) Max Uplift 1=-14(LC 10), 3=-17(LC 11)

Max Grav 1=80(LC 1), 3=80(LC 1), 4=135(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=5.0psf; 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 40.0psf 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-7-15 oc purlins.

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

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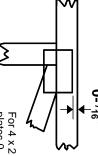


## Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



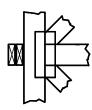
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



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

### **BEARING**



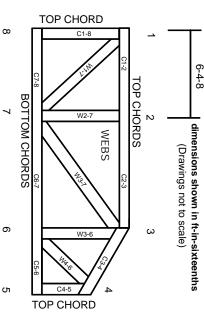
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

## Industry Standards:

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

DSB-89: ANSI/TPI1:

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

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

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

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

4.

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

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

φ.

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