

RE: J0721-4254

Cates/Lot 695 Lexington Plantation

Trenco 818 Soundside Rd Edenton, NC 27932

Date

2/18/2021

2/18/2021

2/18/2021

2/18/2021

Site Information:

Customer: Project Name: J0721-4254

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

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.3

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

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Seal# E15424577 E15424578 E15424579 E15424580 E15424581 E15424583 E15424584 E15424585 E15424586 E15424588 E15424589 E15424590 E15424591 E15424593 E15424594 E15424595 E15424596	Truss Name A1GE A2 A3 A4 A5GE B1 B1A B1GE C1GE C2GDR D1 D1GE M1 M1GE M2 M3 P1 P1GE VC1 VC2	Date 2/18/2021	No. 21 22 23 24	Seal# E15424597 E15424598 E15424599 E15424600	Truss Name VC3 VC4 VC5 VC6
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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.



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18-0-0

9-0-0

20-6-0

2-6-0

6-6-0

Fayetteville, NC - 28314, Comtech, Inc.

-0-10_T8

9-0-0

0-10-8

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:56:53 2021 Page 1 ID:sAYSzhikgwTroF9UzGDilayZT5e-gbMneeurhcYpOY?EtWcQcaM1I6GfF4CdcfA4gtzjviO 27-0-0 36-0-0 36-10-8 9-0-0

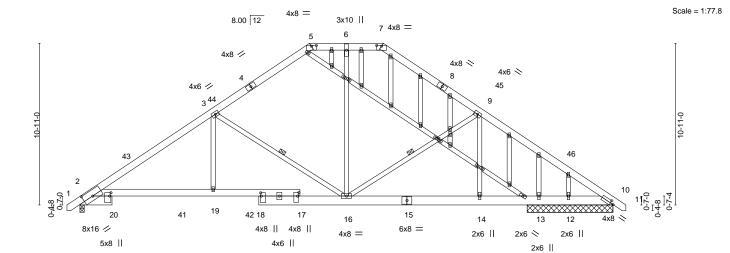
Structural wood sheathing directly applied or 4-6-1 oc purlins.

3-16, 9-16

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

1 Row at midpt

0-10-8



		_ 2-2-0 _	9-0-0	12-1-0	18-0-0	1	27-0-0		1	3	6-0-0	
		2-2-0	5-10-0	3-1-0	5-11-0		9-0-0			(9-0-0	
Plate Offse	ets (X,Y)	[2:0-8-0,0-4-10], [5:0-4	-0,0-0-10], [7:0-4	I-0,0-0-10], [10:0-2-7,0-2-0], [17:0-2-15,0-1-	1], [18:0-	2-10,0	-0-9], [20):0-2-12,0-1-	1], [22:0-1-14,0-1-0]	
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	0.55	Vert(LL)	-0.12	2-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.26	2-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code IRC2015	TPI2014	Matri	ix-S	Wind(LL)	0.14	2-19	>999	240	Weight: 337 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x8 SP No.1 *Except* 2-17: 2x6 SP No.1

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

REACTIONS. All bearings 5-9-8 except (jt=length) 2=0-3-8.

(lb) -Max Horz 2=327(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-311(LC 10), 10=-201(LC 11), 12=-244(LC 17) Max Grav All reactions 250 lb or less at joint(s) 12 except 2=1405(LC 1), 10=1053(LC 1), 13=723(LC 1)

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

TOP CHORD 2-3=-2201/568, 3-5=-1346/502, 7-9=-1342/501, 9-10=-1654/448, 5-6=-1068/484,

6-7=-1069/484

BOT CHORD $2 - 19 = -431/1894, \ 16 - 19 = -424/1894, \ 14 - 16 = -188/1241, \ 13 - 14 = -188/1241, \ 12 - 13 = -188/1241, \ 13 - 14 = -188/1241, \ 14 - 16 = -188/1241,$

10-12=-188/1241

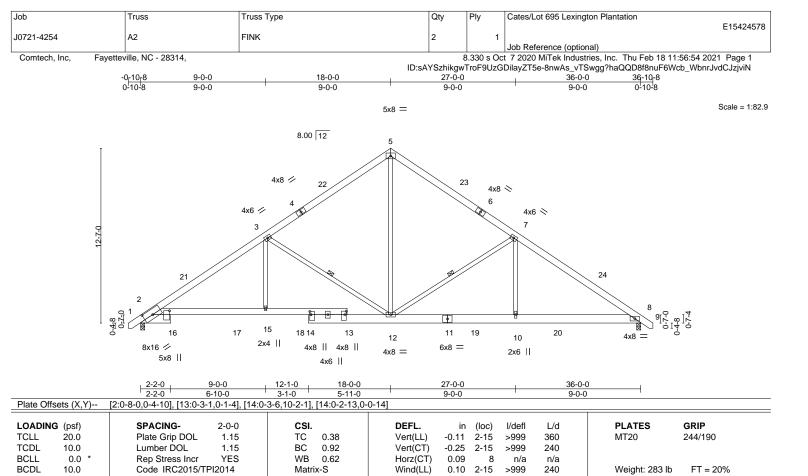
WEBS 3-16=-1091/449, 6-16=-178/817, 3-19=-5/623, 9-16=-377/320

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 9-4-14, Exterior(2) 9-4-14 to 26-7-2, Interior(1) 26-7-2 to 32-4-2, Exterior(2) 32-4-2 to 36-8-15 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 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=311, 10=201, 12=244.



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BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP No.1 *Except*

2-13: 2x6 SP No.1 2x4 SP No.2

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

Max Horz 2=300(LC 9)

Max Uplift 2=-124(LC 10), 8=-124(LC 11) Max Grav 2=1526(LC 17), 8=1547(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2475/532, 3-5=-1484/475, 5-7=-1479/475, 7-8=-2256/494 **BOT CHORD** $2-15=-277/2187,\ 12-15=-268/2187,\ 10-12=-234/1756,\ 8-10=-234/1756$ **WEBS** 3-12=-1197/350, 5-12=-248/1097, 7-10=0/427, 3-15=0/654, 7-12=-933/313

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 13-7-3, Exterior(2) 13-7-3 to 22-4-13, Interior(1) 22-4-13 to 32-4-2, Exterior(2) 32-4-2 to 36-8-15 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 8=124.



Structural wood sheathing directly applied or 4-6-9 oc purlins.

3-12, 7-12

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

2-2-0 oc bracing: 2-15.

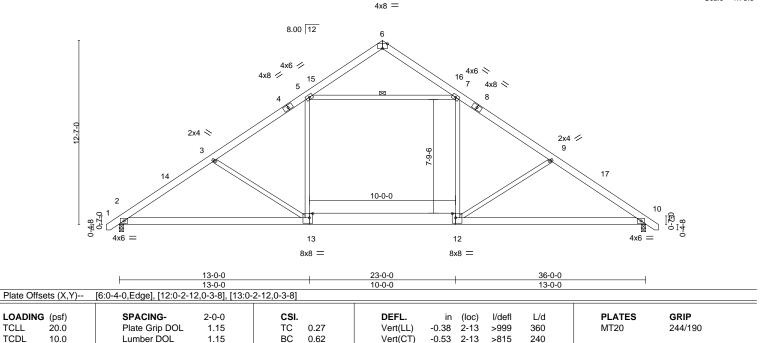
1 Row at midpt

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Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424579 J0721-4254 FINK 2 A3 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:56:56 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-491wGgxj_XwOF?kpYeA7EC_cOJMlSOg4lcOkHCzjviL 18-0-0 36-0-0 13-0-0 23-0-0 29-6-0 6-6-0 6-6-0 5-0-0 5-0-0 6-6-0 6-6-0 0-10-8

Scale = 1:78.8



Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

0.05

0.33

10

2-13

n/a

>999

1 Row at midpt

n/a

240

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

Structural wood sheathing directly applied or 5-0-1 oc purlins.

5-7

Weight: 268 lb

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1

0.0

10.0

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

WEBS 2x4 SP No.2

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

Max Horz 2=300(LC 9)

Max Uplift 2=-124(LC 10), 10=-124(LC 11) Max Grav 2=1603(LC 17), 10=1603(LC 18)

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=-2343/533, 3-5=-2076/478, 5-6=-342/147, 6-7=-342/147, 7-9=-2078/478,

YES

WB

Matrix-S

0.71

9-10=-2341/533

BOT CHORD 2-13=-303/2096, 12-13=-95/1732, 10-12=-303/1870

WEBS $5-13=-13/655,\ 7-12=-13/654,\ 5-7=-1459/430,\ 3-13=-453/248,\ 9-12=-453/248$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 13-7-3, Exterior(2) 13-7-3 to 22-4-13, Interior(1) 22-4-13 to 32-4-2, Exterior(2) 32-4-2 to 36-8-15 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.
- * 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=124, 10=124.



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Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424580 FINK J0721-4254 10 Α4 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:56:57 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-YMbIU0xLlr2Ft9J?6MhMmQWn_jiqBrsDXG8HpezjviK -0<u>-10-8</u> 0-10-8 36-0-0 13-0-0 18-0-0 29-6-0 6-6-0 6-6-0 5-0-0 5-0-0 6-6-0 6-6-0 Scale = 1:77.7 4x8 = 8.00 12 6 4x6 / 4x6 💸 4x8 🖊 15 7 4x8 <> 2x4 < 2x4 🖊 3 9-6-2 10-0-0 10 12 11 4x6 = 8x8 = 8x8 = 13-0-0 23-0-0 36-0-0 Plate Offsets (X,Y)--[6:0-4-0,Edge], [11:0-2-12,0-3-8], [12:0-2-12,0-3-8] LOADING (psf) SPACING-DEFL. **PLATES** GRIP CSI. (loc) I/def L/d Vert(LL) 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.28 -0.40 10-11 >999 360 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.55 10-11

0.34 10-11

10

0.05

>775

>999

1 Row at midpt

n/a

240

n/a

240

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

Weight: 266 lb

Structural wood sheathing directly applied or 4-11-10 oc purlins.

5-7

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1

10.0

10.0

0.0

BOT CHORD 2x6 SP No.1 *Except* 11-12: 2x10 SP No.1

WEBS 2x4 SP No.2

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

Max Horz 2=296(LC 7)

Max Uplift 2=-124(LC 10), 10=-112(LC 11) Max Grav 2=1607(LC 17), 10=1556(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.

 $2\text{-}3\text{--}2350/538,\ 3\text{-}5\text{--}2086/483,\ 5\text{-}6\text{--}343/149,\ 6\text{-}7\text{--}340/148,\ 7\text{-}9\text{--}2089/485,}$ TOP CHORD

1.15

YES

9-10=-2365/550

BOT CHORD 2-12=-331/2097, 11-12=-124/1735, 10-11=-350/1901

WEBS 5-12=-14/656, 7-11=-21/667, 5-7=-1467/434, 3-12=-451/248, 9-11=-468/266

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 13-7-3, Exterior(2) 13-7-3 to 22-4-13, Interior(1) 22-4-13 to 31-6-7, Exterior(2) 31-6-7 to 35-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

вс

WB

Matrix-S

0.63

0.71

- 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=124, 10=112.



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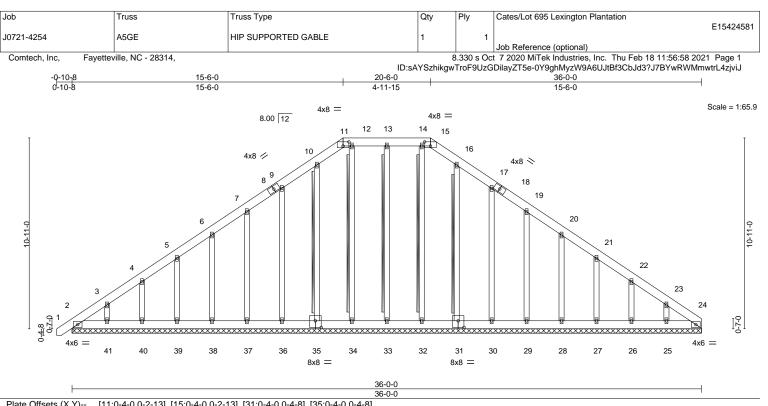


Plate Offsets (X,Y)--[11:0-4-0,0-2-13], [15:0-4-0,0-2-13], [31:0-4-0,0-4-8], [35:0-4-0,0-4-8] SPACING-**PLATES** LOADING (psf) CSI. DEFL. I/def L/d GRIP (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL Lumber DOL вс Vert(CT) 10.0 1.15 0.02 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.17 Horz(CT) 0.01 24 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

Weight: 335 lb

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 14-32, 13-33, 12-34, 10-35

. 16-31

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 36-0-0.

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

Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 33, 34, 35, 37, 38, 39, 40,

31, 29, 28, 27, 26, 24 except 36=-103(LC 10), 41=-106(LC 10), 30=-105(LC 11),

Matrix-S

25=-112(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 36, 37, 38, 39,

40, 41, 31, 30, 29, 28, 27, 26, 25, 24

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-327/259, 9-10=-233/274, 10-11=-261/295, 11-12=-242/281, 12-13=-242/281,

13-14=-242/281, 14-15=-242/281, 15-16=-261/295, 16-17=-233/259

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 11-1-4, Corner(3) 11-1-4 to 24-10-12, Exterior(2) 24-10-12 to 31-7-3, Corner(3) 31-7-3 to 36-0-0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 34, 35, 37, 38, 39, 40, 31, 29, 28, 27, 26, 24 except (jt=lb) 36=103, 41=106, 30=105, 25=112.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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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

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

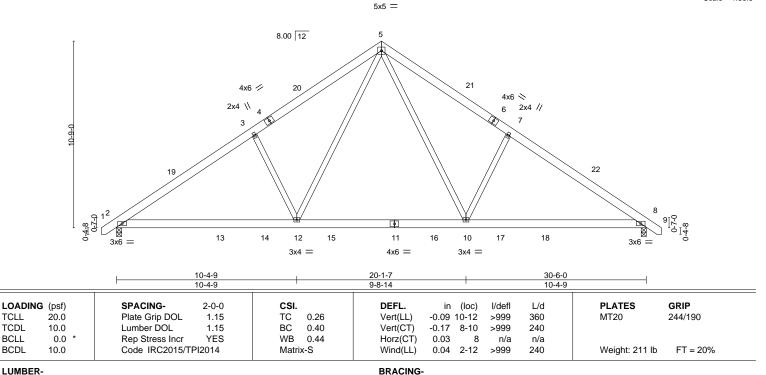
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424582 FINK J0721-4254 B1 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:00 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

ID:sAYSzhikgwTroF9UzGDilayZT5e-zxHR62_E2mQqkc1anUF3O28HYwn2NHsfDEMxQzzjviH 30-6-0 15-3-0 31-4-8 0-10-8 7-11-6 7-3-11 7-11-6

Scale = 1:66.3



TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

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

Max Horz 2=256(LC 9)

Max Uplift 2=-106(LC 10), 8=-106(LC 11) Max Grav 2=1340(LC 17), 8=1340(LC 18)

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

TOP CHORD 2-3=-1842/433, 3-5=-1714/527, 5-7=-1714/527, 7-8=-1842/433

BOT CHORD 2-12=-203/1626, 10-12=0/1052, 8-10=-203/1453

WEBS 3-12=-513/306, 5-12=-197/877, 5-10=-197/877, 7-10=-513/306

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 10-10-3, Exterior(2) 10-10-3 to 19-7-13, Interior(1) 19-7-13 to 26-10-2, Exterior(2) 26-10-2 to 31-2-15 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=106, 8=106.



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

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



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424583 J0721-4254 B₁A FINK 4 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:01 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-R7rpKN_sp4ZhLmcmLCmlxGhRXK206kHpSu6VyPzjviG 30-6-0 -0-10₇8 0-10-8 31-4-8 0-10-8 8-0-11 15-3-0

7-2-6

7-2-6

Scale = 1:72.4 5x5 =

Structural wood sheathing directly applied or 4-11-13 oc purlins.

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

8-0-11

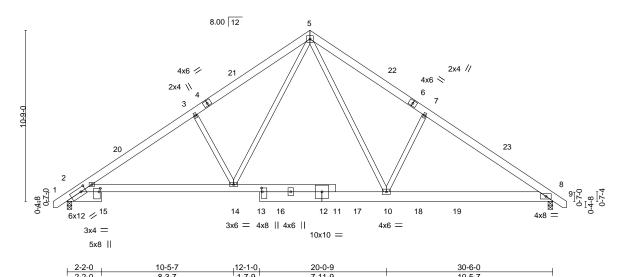


Plate Offsets (X,Y)--[2:0-3-12,0-3-1], [13:0-2-14,0-0-8], [15:0-2-10,0-0-14]

8-0-11

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.11	2-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26	2-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.09	2-14	>999	240	Weight: 239 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP No.1 *Except*

2-11: 2x6 SP No.1 **WEBS** 2x4 SP No.2

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

Max Horz 2=-256(LC 8)

Max Uplift 2=-107(LC 10), 8=-107(LC 11) Max Grav 2=1276(LC 17), 8=1315(LC 18)

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

TOP CHORD 2-3=-1953/462, 3-5=-1809/543, 5-7=-1669/528, 7-8=-1818/433 **BOT CHORD** 2-14=-232/1736, 10-14=0/1068, 8-10=-198/1416

WEBS 3-14=-536/299, 5-14=-213/1015, 5-10=-193/808, 7-10=-510/302

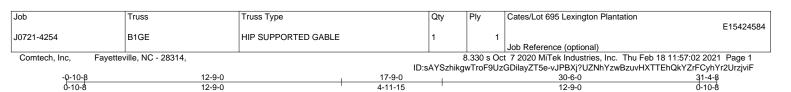
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 10-10-3, Exterior(2) 10-10-3 to 19-7-13, Interior(1) 19-7-13 to 26-10-2, Exterior(2) 26-10-2 to 31-2-15 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 8=107.



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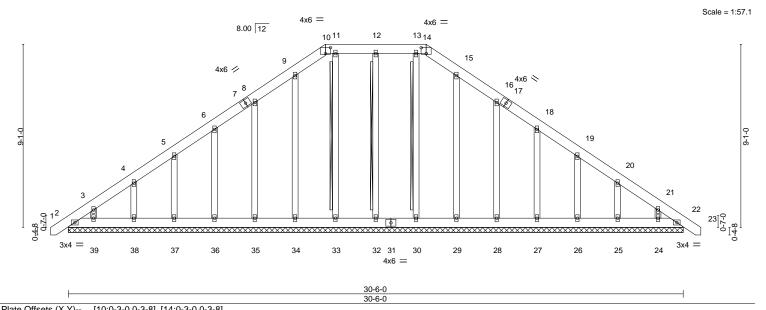


Plate Oil	sets (X,Y)	[10:0-3-0,0-3-8], [14:0-3-	0,0-3-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	22	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	22	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 265 lb	FT = 20%

LUMBER-TOP CHORD

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

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 13-30, 12-32, 11-33

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 30-6-0.

(lb) -Max Horz 2=-271(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 32, 33, 34, 36, 37, 38, 39, 29, 27, 26, 25, 24, 22 except

35=-101(LC 10), 28=-103(LC 11)

All reactions 250 lb or less at joint(s) 2, 30, 32, 33, 34, 35, 36, 37, 38, 39, 29, 28, 27, 26, 25, Max Grav 24 22

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

TOP CHORD 2-3=-275/218, 9-10=-213/251, 14-15=-213/251

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 8-4-4, Corner(3) 8-4-4 to 22-1-12, Exterior(2) 22-1-12 to 26-10-2, Corner(3) 26-10-2 to 31-2-15 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 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) Provide adequate drainage to prevent water ponding. 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 32, 33, 34, 36, 37, 38, 39, 29, 27, 26, 25, 24, 22 except (jt=lb) 35=101, 28=103.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



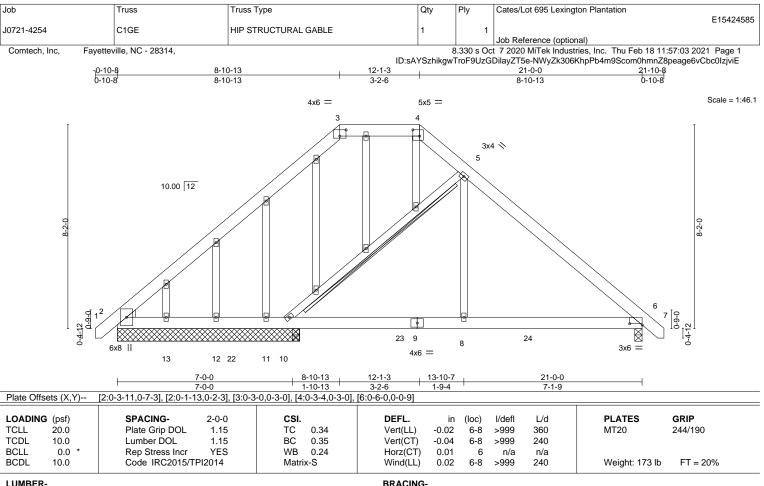
February 18,2021

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

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

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





TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEDGE

Left: 2x4 SP No.2

REACTIONS. All bearings 7-3-8 except (jt=length) 6=0-3-8.

Max Horz 2=-243(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12 except 11=-199(LC 3),

13=-397(LC 10), 6=-156(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 12 except 2=373(LC 21),

13=468(LC 17), 10=587(LC 3), 10=358(LC 1), 6=765(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-637/224, 3-4=-350/292, 4-5=-398/292, 5-6=-837/263

TOP CHORD **BOT CHORD** 2-13=-225/401, 12-13=-225/401, 11-12=-225/401, 10-11=-225/401, 8-10=-47/556,

6-8=-48/553

WEBS 5-10=-506/209, 5-8=0/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 11=199, 13=397, 6=156.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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.

2x4 SPF No.2 - 5-10

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

Brace must cover 90% of web length.

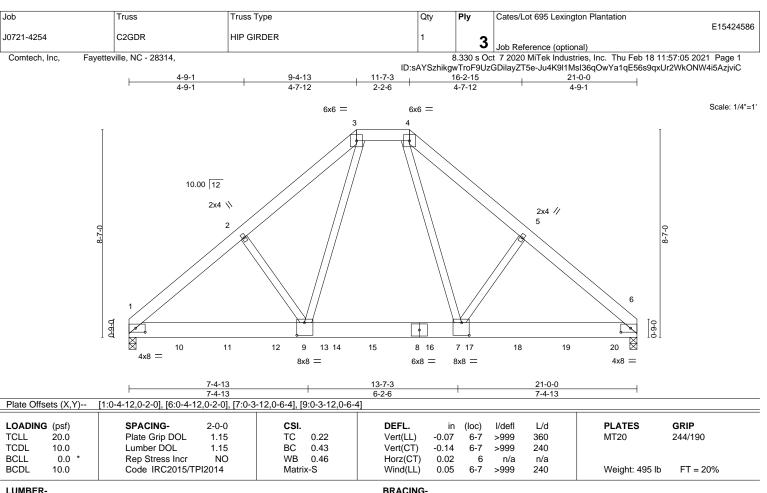
February 18,2021

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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 **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP 2400F 2.0E **WEBS** 2x4 SP No.2

REACTIONS.

(size) 1=0-3-8, 6=0-3-8 Max Horz 1=-192(LC 25)

Max Uplift 1=-629(LC 8), 6=-693(LC 9) Max Grav 1=7646(LC 2), 6=8430(LC 2)

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

TOP CHORD 1-2=-8939/762, 2-3=-8777/807, 3-4=-5275/532, 4-5=-8798/808, 5-6=-8962/763

BOT CHORD 1-9=-589/6665, 7-9=-407/5275, 6-7=-520/6686

WEBS 2-9=-266/304, 3-9=-505/5589, 4-7=-508/5632, 5-7=-266/294

NOTES-

- 1) 3-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 0-4-0 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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 1=629, 6=693,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1457 lb down and 132 lb up at 2-0-12, 1457 lb down and 132 lb up at 4-0-12, 1457 lb down and 132 lb up at 6-0-12, 1449 lb down and 132 lb up at 8-0-12, 1427 lb down and 132 lb up at 10-0-12, 1436 lb down and 132 lb up at 12-0-12, 1457 lb down and 132 lb up at 14-0-12, 1457 lb down and 132 lb up at 16-0-12, and 1457 lb down and 132 lb up at 18-0-12, and 1459 lb down and 130 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

Continued on page 2



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

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

February 18,2021



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424586 J0721-4254 HIP GIRDER 1 Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:05 2021 Page 2
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Fayetteville, NC - 28314, Comtech, Inc,

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 1-6=-20

Concentrated Loads (lb)

Vert: 8=-1411(B) 10=-1411(B) 11=-1411(B) 12=-1411(B) 13=-1411(B) 15=-1411(B) 17=-1411(B) 18=-1411(B) 19=-1411(B) 20=-1413(B)

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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ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424587 J0721-4254 D1 COMMON Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:06 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-n5eiN52_dcBzSXVk7lLTeJOKmLuwn3vYcApGddzjviB 7-0-0 14-10-8 0-10-8 7-0-0 7-0-0 Scale = 1:40.5 5x5 = 3 10.00 12 8 6 3x6 = 3x6 =2x4 || 14-0-0 7-0-0

Plate Offs	sets (X,Y)	[2:0-6-0,0-0-9], [4:0-6-0,0-	-0-9]									
LOADIN	C (nof)	SPACING-	200	CCI		DEEL	:	(100)	1/4-61	1 /-1	DLATEC	CDID
LOADING	(psr)		2-0-0	CSI.		DEFL.	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S	Wind(LL)	0.01	2-6	>999	240	Weight: 90 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=-155(LC 8)

Max Uplift 2=-49(LC 10), 4=-49(LC 11) Max Grav 2=624(LC 17), 4=624(LC 18)

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

TOP CHORD 2-3=-676/185, 3-4=-676/185

BOT CHORD 2-6=0/455, 4-6=0/455

WEBS 3-6=0/354

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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

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

February 18,2021



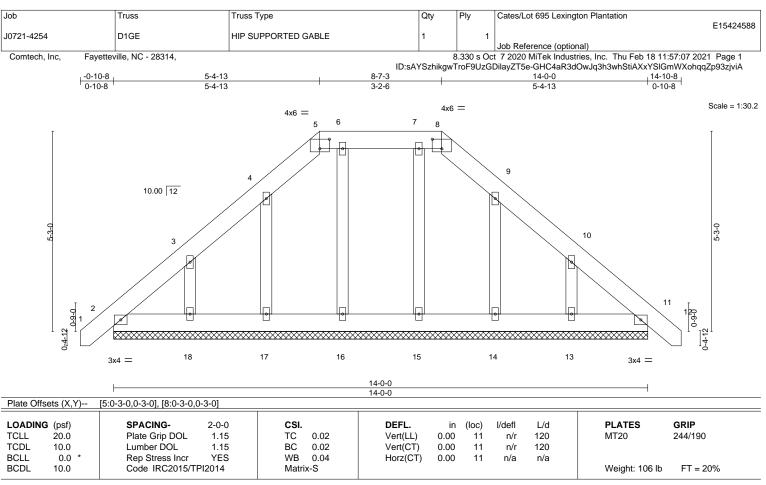
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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932



LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2 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 14-0-0.

(lb) -Max Horz 2=-156(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 15, 16, 17, 14 except 18=-145(LC 10), 13=-144(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 2, 11, 15, 16, 17, 18, 14, 13

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 15, 16, 17, 14 except (jt=lb) 18=145, 13=144.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

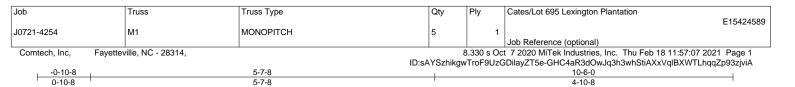


February 18,2021



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 **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





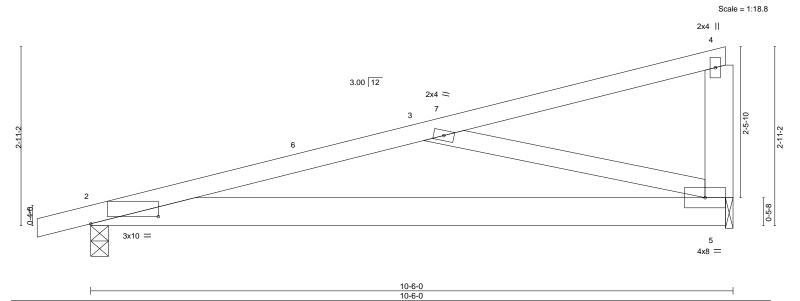


Plate Offsets (X,Y)--[2:1-1-4,0-1-7] SPACING-DEFL. **PLATES** LOADING (psf) CSI. (loc) I/def L/d GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) -0.09 2-5 >999 360 MT20 244/190 TCDL Lumber DOL вс 0.35 Vert(CT) 10.0 1.15 -0.19 2-5 >654 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.26 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 2-5 FT = 20%**BCDL** 10.0 Matrix-S Wind(LL) 0.20 >594 240 Weight: 54 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 *Except* 3-5: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 5=0-1-8

Max Horz 2=95(LC 6)

Max Uplift 2=-195(LC 6), 5=-175(LC 6) Max Grav 2=469(LC 1), 5=402(LC 1)

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

TOP CHORD 2-3=-780/565 **BOT CHORD** 2-5=-650/725 **WEBS** 3-5=-682/541

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-7, Exterior(2) 5-10-7 to 10-3-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=195, 5=175.



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

Rigid ceiling directly applied or 8-1-10 oc bracing.

except end verticals.

February 18,2021

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 **ANSVTP11 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 695 Lexington Plantation
J0721-4254	M1GE	GABLE	1	1	E15424590
00121 1201		0,1522	·		Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

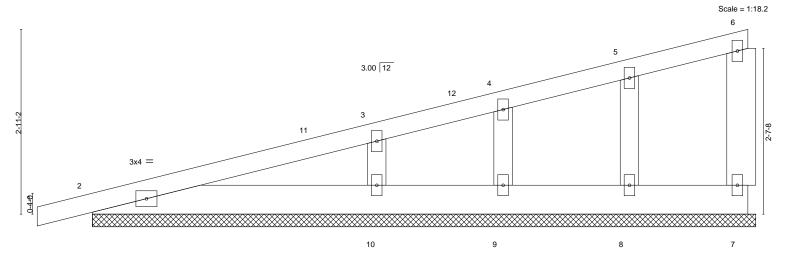
> -0-10-8 0-10-8

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:08 2021 Page 1 $ID:sAYSzhikgwTroF9UzGDilayZT5e-kTmSon4F9DRhhre6FAOxjkThO9bPF_zr3UIMiVzjvi9$ 10-6-0

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

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

except end verticals.



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 0.14	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 52 lb	FT = 20%

TOP CHORD

BOT CHORD

BRACING-LUMBER-

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

OTHERS 2x4 SP No.2

> All bearings 10-6-0. (lb) -Max Horz 2=135(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9 except 10=-121(LC 10) Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=361(LC 1)

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

WEBS 3-10=-238/260

NOTES-

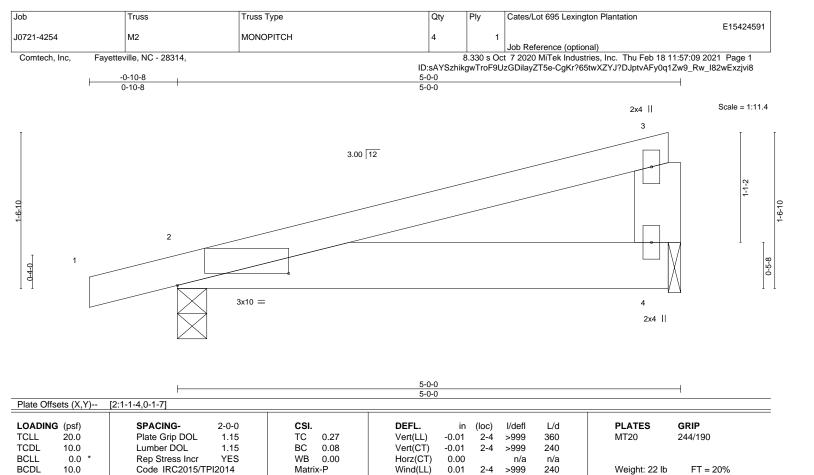
REACTIONS.

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-10-7, Corner(3) 5-10-7 to 10-3-4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9 except (jt=lb) 10=121.



February 18,2021





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 4=0-1-8

Max Horz 2=50(LC 6)

Max Uplift 2=-113(LC 6), 4=-76(LC 6) Max Grav 2=253(LC 1), 4=178(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 (3-second gust) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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 except (jt=lb) 2=113.



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

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

except end verticals.

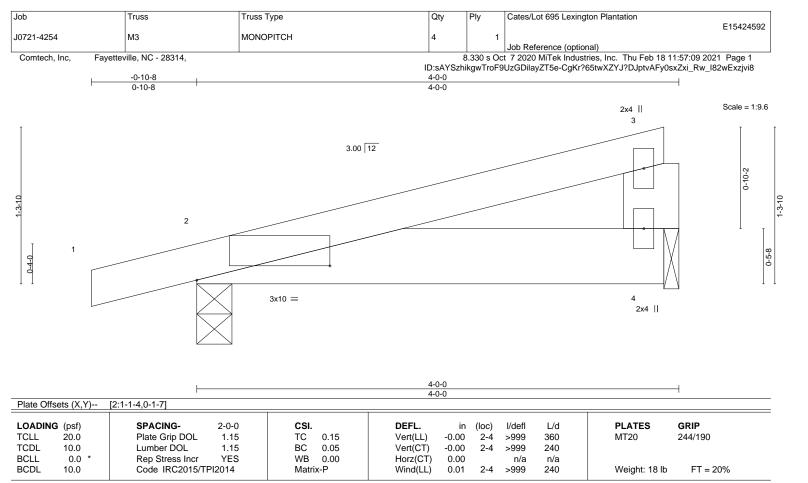


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 4=0-1-8, 2=0-3-8

Max Horz 2=42(LC 6)

Max Uplift 4=-58(LC 6), 2=-99(LC 6) Max Grav 4=136(LC 1), 2=215(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 (3-second gust) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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.



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

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

except end verticals.

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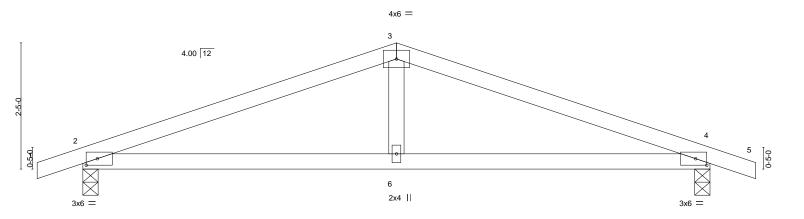
Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424593 J0721-4254 Р1 COMMON 5 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:10 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-gsuDDS5VhrhPw9oVMaQPo9Z_FyD0juB7WonTmOzjvi7 -0-10-8 6-0-0

6-0-0

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

Rigid ceiling directly applied or 6-7-0 oc bracing.

0-10-8 Scale = 1:22.0



⊢	6-0-0		1		12-0-0		
	6-0-0		1		6-0-0		<u> </u>
Plate Offsets (X,Y)	- [2:0-2-9,0-1-8], [4:0-2-9,0-1-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) 0.08	2-6 >999	240	MT20	244/190
TCDL 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/TPI2014	Matrix-S				Weight: 42 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

0-10-8

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

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

Max Horz 2=-27(LC 11)

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=-836/979, 3-4=-836/979 **BOT CHORD** 2-6=-837/732, 4-6=-837/732

WEBS 3-6=-372/281

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=217, 4=217.

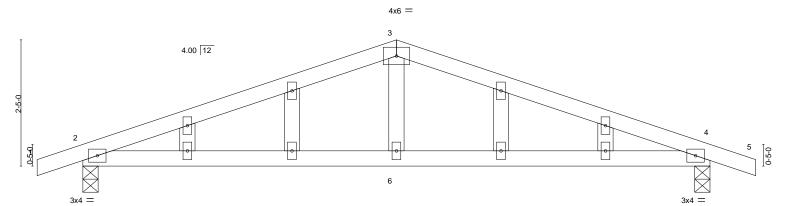


February 18,2021



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424594 J0721-4254 **GABLE** P1GE Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:11 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-82RbQo67S8pGYJNhwIxeKN59?MZESLQHISX1Jqzjvi6

> 0-10-8 Scale = 1:22.0



	6-0-0	+	6-0-0						
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 0.37 BC 0.30 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.03 2-6 -0.07 2-6 0.01 4 0.03 2-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 48 lb	GRIP 244/190 FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

-0-10-8

0-10-8

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

2x4 SP No.2 REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=-46(LC 11)

Max Uplift 2=-174(LC 6), 4=-174(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=-836/341, 3-4=-836/341 **BOT CHORD** 2-6=-234/732, 4-6=-234/732

WEBS 3-6=0/281

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=174, 4=174.



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

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

February 18,2021

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Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424595 J0721-4254 VC1 Valley 1 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:12 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-cE?zd87IDSx7ASyuU?SttaeNEmx0BmOQ_6HarGzjvi5 9-4-3 Scale = 1:49.0 10.00 12 9-0-0 3x4 // 3x4 🔇 13 12 11 10 9 8 3x4 = 18-8-5 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 Vert(LL) MT20 244/190 0.15 n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.14 Vert(CT) n/a n/a 999 **BCLL** WB 0.15 Horz(CT) 0.0 Rep Stress Incr YES 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 86 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 18-7-7.

(lb) -Max Horz 1=-179(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-125(LC 8), 12=-149(LC 10), 13=-111(LC 10), 9=-149(LC

11), 8=-111(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=366(LC 20), 12=444(LC 17), 13=286(LC 17),

9=444(LC 18), 8=286(LC 18)

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

WEBS 3-12=-356/272, 2-13=-288/224, 5-9=-356/272, 6-8=-288/224

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=125, 12=149, 13=111, 9=149, 8=111.



February 18,2021



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424596 J0721-4254 VC2 Valley Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:13 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-4RZLrU8N_m3_ncX42jz6QnBY5AITwENaDm07Njzjvi4 7-9-0 7-9-0 7-9-0 Scale = 1:40.8 4x4 = 10.00 12 2x4 || 2x4 || 3x4 // 3x4 N 8 10 6 2x4 || 2x4 || 2x4 || 15-5-15 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 Vert(LL) MT20 244/190 0.14 n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.12 Vert(CT) n/a n/a 999 **BCLL** WB 0.10 Horz(CT) 0.0 Rep Stress Incr YES 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 68 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 15-5-1.

(lb) -Max Horz 1=-147(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-149(LC 10), 6=-149(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=347(LC 17), 8=407(LC 17), 6=407(LC 18)

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

WEBS 2-8=-351/269, 4-6=-351/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=149, 6=149.





Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424597 J0721-4254 VC3 Valley Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:13 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-4RZLrU8N_m3_ncX42jz6QnBYHAI_wFxaDm07Njzjvi4 6-1-12 Scale = 1:32.5 3 10.00 12 2x4 || 2x4 || 3x4 N 3x4 // 8 6 7 2x4 || 2x4 || 2x4 || 12-3-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) MT20 244/190 n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 **BCLL** WB Horz(CT) 0.0 Rep Stress Incr YES 0.06 0.00 5 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 51 lb

FT = 20%

REACTIONS. All bearings 12-2-10.

(lb) -Max Horz 1=-115(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-130(LC 10), 6=-130(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 17), 6=325(LC 18)

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

Code IRC2015/TPI2014

WEBS 2-8=-312/248, 4-6=-312/248

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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

Matrix-S

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=130, 6=130.



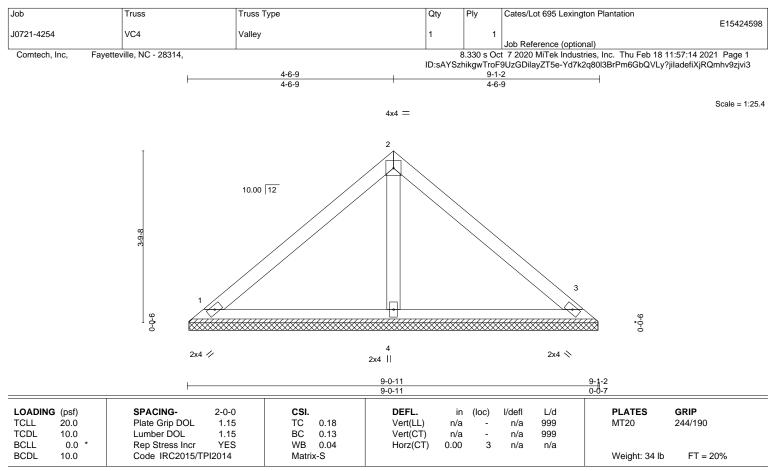


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 1=83(LC 7)

Max Uplift 1=-23(LC 11), 3=-30(LC 11)

Max Grav 1=177(LC 1), 3=177(LC 1), 4=309(LC 1)

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 (3-second gust) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424599 J0721-4254 VC5 Valley Job Reference (optional)

4x4 =

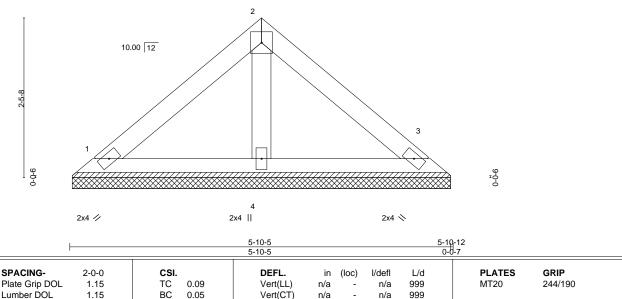
Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:15 2021 Page 1 $ID:s AYSzhikgwTroF9UzGDilayZT5e-1ph6GA9eWNJi1whT980aVCGuNz_6O9Btg4VESbzjvi2\\$

2-11-6 2-11-6

Scale = 1:17.7





3

n/a

n/a

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

Weight: 21 lb

Structural wood sheathing directly applied or 5-10-12 oc purlins.

FT = 20%

0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

0.0

10.0

REACTIONS. (size) 1=5-9-13, 3=5-9-13, 4=5-9-13

Max Horz 1=-51(LC 6)

Max Uplift 1=-20(LC 11), 3=-24(LC 11)

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 1=118(LC 1), 3=118(LC 1), 4=172(LC 1)

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 (3-second gust) 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

0.01

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



February 18,2021



Job Truss Truss Type Qty Ply Cates/Lot 695 Lexington Plantation E15424600 J0721-4254 VC6 Valley Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 11:57:16 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:sAYSzhikgwTroF9UzGDilayZT5e-V0FUTWAGGhRYe4GfjrXp1Qp4LNKe7cf0vkFo_1zjvi1 1-4-3 Scale = 1:8.4 3x4 10.00 12 0-0-6 9-0-0 2x4 // 2x4 🚿 2-8-5 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-DEFL. **PLATES** CSI. I/defI L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.01 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL вс Vert(CT) 10.0 1.15 0.03 n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

REACTIONS. (size) 1=2-7-7, 3=2-7-7 Max Horz 1=19(LC 7)

Max Uplift 1=-5(LC 10), 3=-5(LC 11)

Max Grav 1=76(LC 1), 3=76(LC 1)

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

Code IRC2015/TPI2014

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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

Matrix-P

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



FT = 20%

Weight: 8 lb

Structural wood sheathing directly applied or 2-8-5 oc purlins.

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

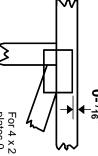


Symbols

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



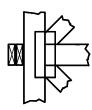
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



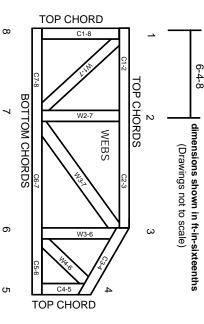
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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

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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
- 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.