

RE: J1220-5685

Weaver / Lot 67 Thomas Farm / Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J1220-5685

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 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15350533	A1	1/29/2021
2	E15350534	A1GE	1/29/2021
3	E15350535	A2	1/29/2021
4	E15350536	A3	1/29/2021
5	E15350537	A4	1/29/2021
6	E15350538	A4GE	1/29/2021
7	E15350539	B1	1/29/2021
8	E15350540	B2	1/29/2021
9	E15350541	B2GR	1/29/2021
10	E15350542	VB1	1/29/2021
11	E15350543	VB2	1/29/2021
12	E15350544	VB3	1/29/2021
13	E15350545	VB4	1/29/2021
14	E15350546	VB5	1/29/2021
15	E15350547	VB6	1/29/2021
16	E15350548	VB7	1/29/2021

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.



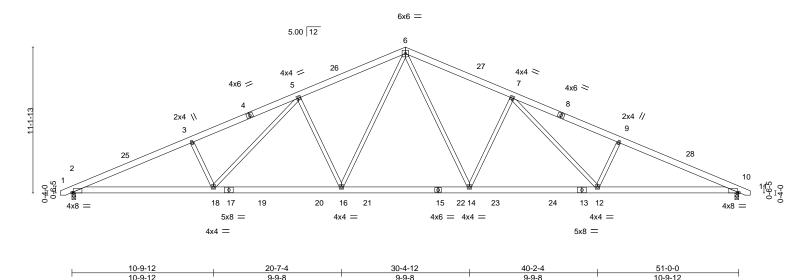
January 29, 2021

JOD	Truss	Truss Type		Qty	Ply	weaver/Loco/ momas ra	ami / nameu	
								E15350533
J1220-5685	A1	COMMON		1	1			
						Job Reference (optional)		
Comtech, Inc, Fayet	eville, NC - 28314,			8.	.330 s Oc	t 7 2020 MiTek Industries, I	nc. Tue Jan 26 16:04:39 202	1 Page 1
			ID:OVkgz	zkCZiFyccL	xPk0HiY	pztgE1-uZ7w0wDo9J7Fxv20	GMvNq4CFAZHYR32gK6P_p	ALzrRE6
-0 _r 10 _r 8 9-	2-3	-2 1 25	5-6-0	33-7-14	1	41-9-13	51-0-0	51 ₋ 10-8
0-10-8 9-	2-3 8-1-	14 8-	-1-14	8-1-14		8-1-14	9-2-3	0-10-8

Structural wood sheathing directly applied or 3-0-14 oc purlins.

Rigid ceiling directly applied or 9-5-5 oc bracing.

Scale = 1:88.1



		10 0 12		, ,		000		10 0 12	
Plate Offs	sets (X,Y)	[2:0-1-2,Edge], [10:0-1-2,E	Edge]						
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.32 14-16 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.57 14-16 >999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.17 10 n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	12014	Matrix-S	Wind(LL)	0.16 16 >999	240	Weight: 349 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=131(LC 16)

Max Uplift 2=-140(LC 12), 10=-140(LC 13)

Max Grav 2=2151(LC 2), 10=2151(LC 2)

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

TOP CHORD 2-3=-4699/875, 3-5=-4532/906, 5-6=-3592/789, 6-7=-3592/789, 7-9=-4532/906,

9-10=-4699/875 BOT CHORD

2-18=-684/4262, 16-18=-480/3547, 14-16=-266/2708, 12-14=-488/3547, 10-12=-677/4262 3-18=-468/269, 5-18=-163/881, 5-16=-857/331, 6-16=-206/1284, 6-14=-206/1284,**WEBS**

7-14=-857/331, 7-12=-163/881, 9-12=-468/269

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 4-5-1, Interior(1) 4-5-1 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 2 and 140 lb uplift at joint 10.





Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350534 J1220-5685 **GABLE** A1GE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:42 2021 Page 1 Comtech, Inc.

ID:OVkgzkCZiFyccLxPk0HiYpztgE1-J8p2fxFhREVqoNmr21wYhqtpIVkdGbomoMDTmgzrRE3 51-0-0

Scale = 1:88.8

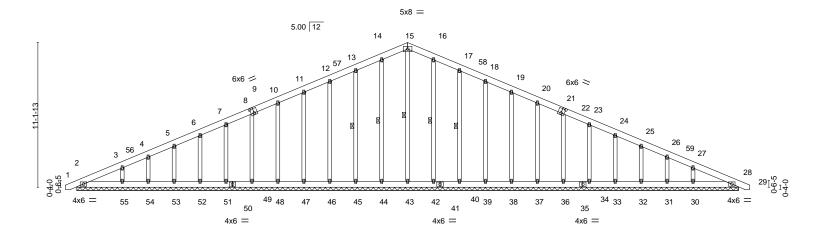


Plate Off	Plate Offsets (X,Y) [8:0-1-14,0-0-0], [9:0-3-0,0-4-4], [9:0-0-0,0-2-12], [21:0-3-0,0-4-4], [21:0-0-0,0-2-12], [22:0-1-14,0-0-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	28	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	29	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	28	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	, ,					Weight: 440 lb	FT = 20%	

51-0-0 51-0-0

LUMBER-

-0₋10₋8

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

BOT CHORD

OTHERS 2x4 SP No.2 **BRACING-**TOP CHORD

BOT CHORD WFBS

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

1 Row at midpt 15-43, 14-44, 13-45, 16-42, 17-40

REACTIONS. All bearings 51-0-0.

(lb) -Max Horz 2=221(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 42, 40, 39, 38, 37, 36, 34, 33, 32, 31 except 55=-108(LC 12), 30=-107(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 28, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 42, 40,

39, 38, 37, 36, 34, 33, 32, 31 except 55=274(LC 23), 30=274(LC 24)

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

TOP CHORD 2-3=-271/105, 10-11=-83/255, 11-12=-100/302, 12-13=-116/349, 13-14=-134/400,

25-6-0

25-6-0

14-15=-145/429, 15-16=-145/431, 16-17=-134/402, 17-18=-116/351, 18-19=-100/304,

19-20=-83/257

WEBS 3-55=-194/258, 27-30=-194/258

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-2 to 4-5-1, Exterior(2) 4-5-1 to 25-6-0, Corner(3) 25-6-0 to 30-7-3, Exterior(2) 30-7-3 to 51-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 42, 40, 39, 38, 37, 36, 34, 33, 32, 31 except (jt=lb) 55=108, 30=107.



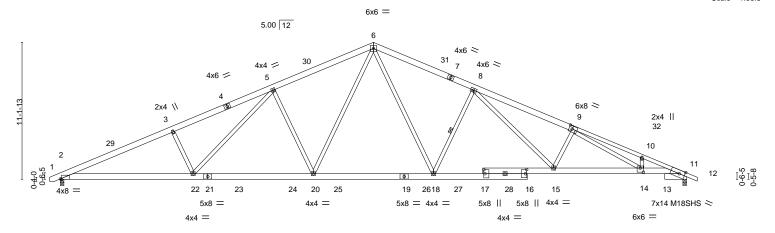
January 27,2021



Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350535 J1220-5685 COMMON 4 A2 Job Reference (optional)

Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:43 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-nKMQsHGJCYdhQWL1bkRnE2Qp1vsu?siv10y1J6zrRE2 -0₋10₋8 0-10-8

Scale = 1:93.8



	10-9-12 10-9-12	20-7-4 9-9-8)-4-12)-9-8	38-0-8 7-7-12		2-1-12	47-2-12 7-0-8	49-2-12 ₅ 2-0-0 1	
Plate Offsets (X,Y) [2:0-1-2,Edge], [9:0-3-0),0-3-0], [11:0-5-6	6,Edge], [14:0)-3-0,0-4-0], [1	6:0-4-0,0-1-4], [17:0-3-14,0-1-1]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/	2-0-0 1.15 1.15 YES TPI2014	CSI. TC BC WB Matrix	0.77 0.93 0.93 -S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.40 18-20 -0.73 18-20 0.23 11 0.21 18-20	I/defI >999 >831 n/a >999	L/d 360 240 n/a 240	PLA MT2 M18	0	GRIP 244/190 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x6 SP No.1 *Except* 9-12: 2x4 SP No.1

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

11-17: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=131(LC 16)

Max Uplift 2=-140(LC 12), 11=-143(LC 13)

Max Grav 2=2147(LC 2), 11=2153(LC 2)

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

TOP CHORD 2-3=-4687/874, 3-5=-4520/906, 5-6=-3591/790, 6-8=-3553/787, 8-9=-4983/963,

9-10=-5767/1124, 10-11=-5932/1059

BOT CHORD 2-22=-684/4251, 20-22=-479/3544, 18-20=-265/2692, 15-18=-501/3597, 14-15=-733/4746,

11-14=-888/5330

WEBS 3-22=-469/269, 5-22=-161/875, 5-20=-854/330, 6-20=-211/1311, 6-18=-203/1239,

8-18=-1019/367, 8-15=-224/1364, 9-15=-608/246, 9-14=-194/790

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 4-5-1, Interior(1) 4-5-1 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=140, 11=143.



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

8-18

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

January 27,2021



Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350536 J1220-5685 COMMON 4 A3 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:44 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-FWwp4dHxzslY2gwD9Sz0nFy1ZlGwkJt3FgiarYzrRE1 17-4-2 25-6-0 33-7-14 41-9-13 51-0-0

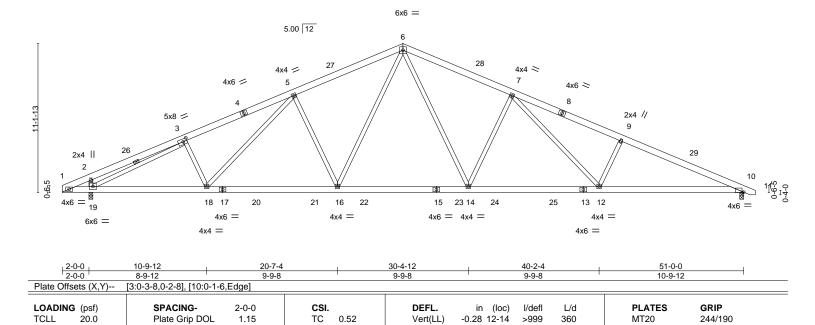
8-1-14

8-1-14

8-1-14

Scale = 1:86.2

9-2-3



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WFBS

-0.49 12-14

0.13 12-14

10

0.15

>999

>999

1 Row at midpt

n/a

240

n/a

240

Rigid ceiling directly applied or 9-9-4 oc bracing.

Structural wood sheathing directly applied or 3-2-0 oc purlins.

3-19

Weight: 359 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

WFBS 2x4 SP No.2

REACTIONS. 10=0-3-8, 19=0-3-8 (size) Max Horz 19=-134(LC 17)

Max Uplift 10=-140(LC 13), 19=-135(LC 12) Max Grav 10=2064(LC 2), 19=2206(LC 2)

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 1-2=-595/7, 2-3=-742/136, 3-5=-3635/712, 5-6=-3273/723, 6-7=-3369/746,

7-9=-4314/864. 9-10=-4481/833

BOT CHORD 1-19=-4/606, 18-19=-464/3269, 16-18=-406/3152, 14-16=-223/2502, 12-14=-445/3342,

1.15

YES

BC

WB

Matrix-S

0.69

0.93

8-1-14

10-12=-638/4062

WEBS 5-18=-50/329, 5-16=-654/290, 6-16=-164/1085, 6-14=-207/1282, 7-14=-859/332,

7-12=-164/885, 9-12=-470/269, 2-19=-505/301, 3-19=-3043/546

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 5-1-3, Interior(1) 5-1-3 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-8-2 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 10=140, 19=135.





Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350537 J1220-5685 COMMON 5 A4 Job Reference (optional)

25-6-0

2-8-12

Fayetteville, NC - 28314, Comtech, Inc.

22-9-4

8-3-8

6-11-10

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:45 2021 Page 1 ID:OVkgzkCZiFyccLxPk0HiYpztgE1-jjUBHzlZk9tPfqVPj9UFJTVD_icZTmACUKR8N?zrRE0 33-7-14 41-9-13 51-0-0 8-1-14

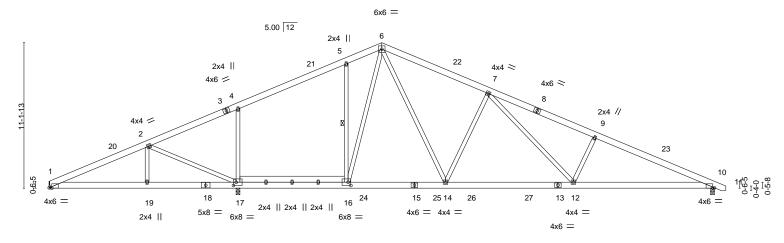
Structural wood sheathing directly applied or 3-5-1 oc purlins.

5-16

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

1 Row at midpt

Scale = 1:88.3



7-6-2	14-4-0	1	22-9-4	30-4-12	40-2-4	1	51-0-0	
7-6-2	6-9-14		8-5-4	7-7-8	9-9-8		10-9-12	1
Plate Offsets (X,Y)	[1:0-2-6,Edge], [10:0-1-	10,Edge], [16:0	-2-8,0-3-0], [17:0-	2-8,0-3-0]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.4	8 Vert(LL)	-0.27 12-14 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.6	6 Vert(CT)	-0.46 12-14 >958	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.9	3 Horz(CT)	0.12 10 n/a	n/a		
BCDL 10.0	Code IRC2015/	ΓPI2014	Matrix-S	Wind(LL)	0.11 14-16 >999	240	Weight: 370 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

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

2x4 SP No.2

10=0-3-8, 1=Mechanical, 17=0-3-8 (size)

Max Horz 1=-134(LC 13)

Max Uplift 10=-138(LC 13), 1=-6(LC 12), 17=-171(LC 12) Max Grav 10=1863(LC 2), 1=1340(LC 2), 17=1167(LC 2)

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

TOP CHORD 1-2=-2811/425, 2-4=-2378/348, 4-5=-2444/484, 5-6=-2327/575, 6-7=-2848/610,

7-9=-3812/724, 9-10=-3980/692

BOT CHORD 1-19=-293/2533, 17-19=-293/2533, 16-17=-111/2155, 14-16=-88/2032, 12-14=-319/2865,

10-12=-509/3601

WEBS 2-19=0/258, 6-16=-128/582, 6-14=-228/1245, 7-14=-856/332, 7-12=-159/892,

 $9\hbox{-}12\hbox{-}-475/270,\ 4\hbox{-}17\hbox{-}-581/266,\ 2\hbox{-}17\hbox{-}-637/213,\ 5\hbox{-}16\hbox{-}-286/232$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 5-2-7, Interior(1) 5-2-7 to 25-6-0, Exterior(2) 25-6-0 to 30-7-3, Interior(1) 30-7-3 to 51-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) 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) 1 except (jt=lb) 10=138, 17=171.



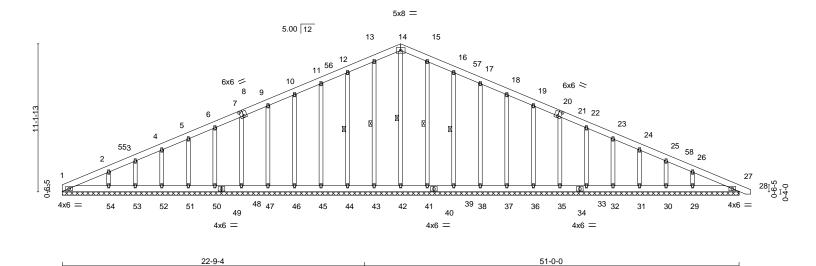


Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350538 J1220-5685 A4GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:47 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-f5cxifJpGn77v8foqaWjOuag1WSoxs2VyewEStzrRE_

25-6-0

2-8-12

Scale = 1:86.8



		22-9-4			ı					28-2	2-12		
Plate Offse	ets (X,Y)	[7:0-1-14,0-0-0], [8:0-3-0	,0-4-4], [8:0-0	-0,0-2-12], [20	:0-3-0,0-	4-4], [20:0	0-0-0,0-2-12], [21:0-1	1-14,0-0)-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	0.06		Vert(LL)	0.00	27	n/r	120	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.03		Vert(CT)	0.00	28	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14		Horz(CT)	0.01	27	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	-S							Weight: 438 lb	FT = 20%

LUMBER-

OTHERS

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

TOP CHORD **BOT CHORD** WFBS

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

1 Row at midpt 14-42, 13-43, 12-44, 15-41, 16-39

51-0-0

25-6-0

REACTIONS. All bearings 51-0-0.

Max Horz 1=-225(LC 13)

14-5-12

Max Uplift All uplift 100 lb or less at joint(s) 27, 1, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 41, 39, 38, 37, 36, 35, 33, 32, 31, 30 except 54=-112(LC 12), 29=-107(LC 13)

22-9-4

8-3-8

Max Grav All reactions 250 lb or less at joint(s) 27, 1, 42, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 41, 39, 38, 37, 36, 35, 33, 32, 31, 30 except 54=282(LC 23), 29=274(LC 24)

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

1-2=-273/105, 9-10=-83/256, 10-11=-100/302, 11-12=-116/350, 12-13=-134/400, TOP CHORD

13-14=-145/430, 14-15=-145/431, 15-16=-134/402, 16-17=-116/351, 17-18=-100/304,

18-19=-83/257

WEBS 2-54=-202/281, 26-29=-194/258

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 5-1-3. Exterior(2) 5-1-3 to 25-6-0. Corner(3) 25-6-0 to 30-7-3. Exterior(2) 30-7-3 to 51-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 1, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 41, 39, 38, 37, 36, 35, 33, 32, 31, 30 except (jt=lb) 54=112, 29=107.



January 27,2021

M 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 and roperly incorporate this design in the overall 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 Weaver / Lot 67 Thomas Farm / Harnett E15350539 J1220-5685 COMMON SUPPORTED GAB В1 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:48 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-7HAJv?KS14FzXIE_OI1yx57qAwnJgK0eAlgozKzrRDz 19-6-0 0-10-8 9-3-12 9-3-12 Scale = 1:44.0 4x4 = 8.00 12 11 0-9-5 3x10 || 3x10 || 23 22 21 20 19 18 16 15 14 17 4x6 = 18-7-8 18-7-8 Plate Offsets (X V)--[2·0-0-3 0-0-4] [2·0-0-6 0-4-1] [2·0-5-8 Edge] [12·0-0-3 0-0-4] [12·0-0-6 0-4-1] [12·0-5-8 Edge]

Flate Oil	15615 (7, 1)	[2.0-0-3,0-0-4], [2.0-0-0,0	-4- 1], [2.0-5-6,	Lugej, [12.0	-0-3,0-0-4], [12.0-0-0,0-4-1], [1	2.0-5-6,	Lugej				
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	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 126 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

WEDGE

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

REACTIONS. All bearings 18-7-8.

Max Horz 2=-204(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 17, 16, 15, 12 except 23=-120(LC 12),

14=-112(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 17, 16, 15, 14, 12

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-3-12, Exterior(2) 3-3-12 to 9-3-12, Corner(3) 9-3-12 to 13-8-9, Exterior(2) 13-8-9 to 19-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 17, 16, 15, 12 except (jt=lb) 23=120, 14=112.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.



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 Weaver / Lot 67 Thomas Farm / Harnett E15350540 J1220-5685 B2 COMMON 2 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:49 2021 Page 1 Comtech, Inc.

4x6 ||

Fayetteville, NC - 28314,

ID:OVkgzkCZiFyccLxPk0HiYpztgE1-bUkh7LL4oONq8SpBy?YBUJfyCJ4XPiXoPyPLVmzrRDy -0-10-8 0-10-8 4-9-10 9-3-12 13-9-14 18-7-8 19-6-0 0-10-8 4-9-10 4-6-2 4-6-2 4-9-10

Scale = 1:43.3

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

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

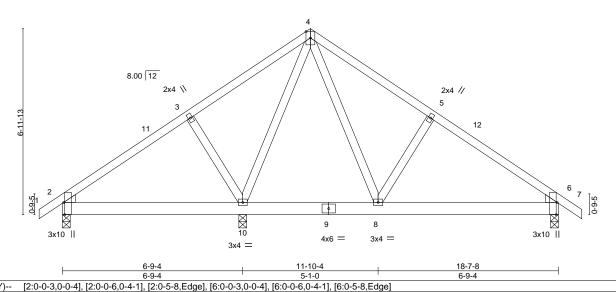


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.02 6-8 >999 360 MT20 244/190 TCDL вс 10.0 Lumber DOL 1.15 0.21 Vert(CT) -0.04 6-8 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.39 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.03 2-10 >999 240 Weight: 113 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 6=0-3-8

Max Horz 2=-163(LC 10)

Max Uplift 2=-29(LC 8), 10=-71(LC 12), 6=-43(LC 13) Max Grav 2=301(LC 23), 10=787(LC 1), 6=510(LC 1)

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

TOP CHORD 4-5=-413/133, 5-6=-521/84

BOT CHORD 6-8=0/354

WEBS 3-10=-314/214, 4-10=-458/65, 4-8=-65/415, 5-8=-290/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 9-3-12, Exterior(2) 9-3-12 to 13-10-13, Interior(1) 13-10-13 to 19-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 6.





Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350541 J1220-5685 B2GR Common Girder 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:51 2021 Page 1 ID:OVkgzkCZiFyccLxPk0HiYpztgE1-YsrSY0MKK?eYOlyZ3QbfZklEX7aFtU95sGuSaezrRDw

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

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

except end verticals.

2-8-4 2-8-4 7-2-9 12-0-0 4-6-5

> Scale = 1:42.4 3x4 =

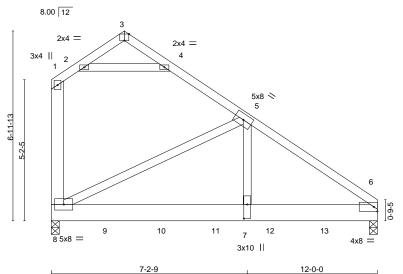


Plate Offsets (X,Y)-- [3:0-2-0,Edge], [7:0-6-4,0-1-8]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.96	Vert(CT)	-0.16	7-8	>846	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05	7-8	>999	240	Weight: 180 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 1 BOT CHORD 2x8 SP No.1

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

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

Max Horz 8=-178(LC 9) Max Uplift 6=-49(LC 9), 8=-111(LC 9) Max Grav 6=3720(LC 2), 8=3696(LC 2)

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

TOP CHORD 4-5=-269/38, 5-6=-5119/58 BOT CHORD 7-8=0/4048, 6-7=0/4048 **WEBS** 5-7=0/4674, 5-8=-4339/166

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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: 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. Plv to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1320 lb down and 26 lb up at 2-0-12, 1320 lb down and 26 lb up at 4-0-12, 1320 lb down and 26 lb up at 6-0-12, and 1320 lb down and 26 lb up at 8-0-12, and 1320 lb down and 26 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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

January 27,2021

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



Job	Truss	Truss Type	Qty	Ply	Weaver / Lot 67 Thomas Farm / Harnett	
J1220-5685	B2GR	Common Girder	1	_	E15350)541
31220-3063	DZGK	Common Girder		2	Job Reference (optional)	

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:51 2021 Page 2 ID:OVkgzkCZiFyccLxPk0HiYpztgE1-YsrSY0MKK?eYOlyZ3QbfZklEX7aFtU95sGuSaezrRDw

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=-1238(B) 10=-1238(B) 11=-1238(B) 12=-1238(B) 13=-1238(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350542 VB1 VALLEY J1220-5685 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:52 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-03PqlMNy5JmP?vXmd76u5xHTbX70c81E5we?65zrRDv 9-0-1 9-0-1 . 18-0-1 9-0-0 Scale = 1:38.3 4x4 = 3 8.00 12 2x4 || 2x4 || 2 11 10 3x4 / 3x4 <> 9 12 8 13 6 3x4 =2x4 || 2x4 || 2x4 || 17-11-8 17-11-8 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) n/a n/a 999 WB 0.09 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 73 lb FT = 20%

LUMBER-

OTHERS

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

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 17-10-15.

(lb) -Max Horz 1=-136(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-122(LC 12), 6=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=403(LC 19), 9=475(LC 19), 6=475(LC 20)

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

WEBS 2-9=-364/231, 4-6=-364/231

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 5-0-1, Interior(1) 5-0-1 to 9-0-1, Exterior(2) 9-0-1 to 13-4-13, Interior(1) 13-4-13 to 17-6-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=122, 6=122.





Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350543 J1220-5685 VB2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:52 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-03PqIMNy5JmP?vXmd76u5xHUSX8Ec8HE5we?65zrRDv 7-9-1 15-6-1 Scale = 1:33.2 4x4 = 3 8.00 12 11 10 2x4 || 2x4 12 9 3x4 / 8 7 6 2x4 || 2x4 || 2x4 || 15-5-8 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 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: 61 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 15-4-15.

(lb) -Max Horz 1=-116(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-104(LC 12), 6=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 1), 8=367(LC 19), 6=366(LC 20)

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

WEBS 2-8=-310/206, 4-6=-310/206

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-9-1, Exterior(2) 7-9-1 to 12-1-13, Interior(1) 12-1-13 to 15-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=104, 6=104.





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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 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



OD	Truss	Truss Type		Qty	Piy	weaver/Lot 6/ Thorr	ias raim / nameii	E45050544
1220-5685	VB3	VALLEY		1	1			E15350544
						Job Reference (option		
Comtech, Inc, Fayette	ville, NC - 28314,		ID:OV				ries, Inc. Tue Jan 26 16 duGd36yBrd7e9qgUxUh	
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	2,44					2,4		
			12-11-8				13-0- 0-0-	-1
Plate Offsets (X,Y) [4:	0-0-0,0-0-0]		12-11-8				0-0-	9
LOADING (psf)	SPACING- 2-0-0		DEFL.	in		I/defl L/d		GRIP
TCLL 20.0	Plate Grip DOL 1.15		Vert(LL)	n/a		n/a 999	MT20	244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES		Vert(CT) Horz(CT	n/a 0.00		n/a 999 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	11012(01)	0.00	5	ııa ııa	Weight: 50 lb	FT = 20%
10.0	5530 1102010/11 12014	I I I I I I I I I I I I I I I I I I I					Worgin. 00 lb	. 1 - 20/0

LUMBER-

OTHERS

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

2x4 SP No.2 REACTIONS. All bearings 12-10-15.

(lb) - Max Horz 1=-96(LC 10)

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=318(LC 19), 6=318(LC 20)

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

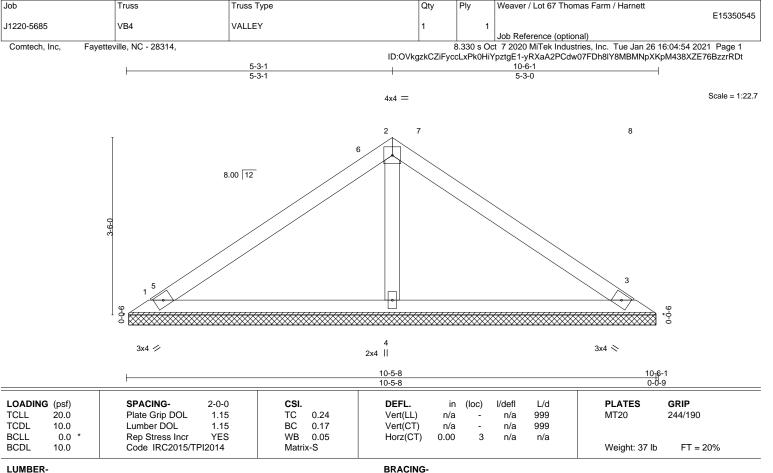
WEBS 2-8=-278/198, 4-6=-278/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 6-6-1, Exterior(2) 6-6-1 to 10-10-13, Interior(1) 10-10-13 to 12-6-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.







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=10-4-15, 3=10-4-15, 4=10-4-15

Max Horz 1=-76(LC 8)

Max Uplift 1=-24(LC 12), 3=-31(LC 13)

Max Grav 1=189(LC 1), 3=189(LC 1), 4=383(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-3-1, Exterior(2) 5-3-1 to 9-7-13, Interior(1) 9-7-13 to 10-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

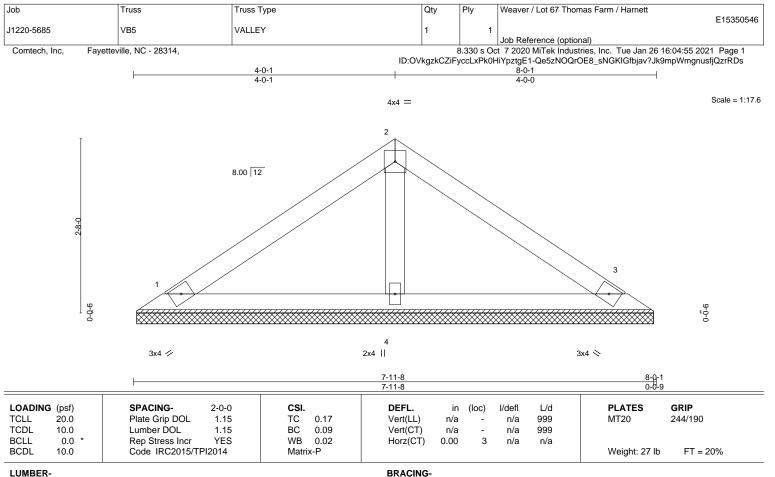
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

LUMBER-

REACTIONS.

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

(size) 1=7-10-15, 3=7-10-15, 4=7-10-15

Max Horz 1=56(LC 9)

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

Max Grav 1=153(LC 1), 3=153(LC 1), 4=256(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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

Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350547 J1220-5685 VB6 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:56 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-uqfLbkQT8YGrUWrXszAqGnSBi8WqYzAq0YcDFszrRDr 2-9-1 2-9-1 Scale = 1:14.1 4x4 = 2 8.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 <> 5-5-8 5-6-1 0-0-9 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 WB 0.01 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 18 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins. BOT CHORD 2x4 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.2 **OTHERS**

> (size) 1=5-4-15, 3=5-4-15, 4=5-4-15 Max Horz 1=-36(LC 10)

Max Uplift 1=-16(LC 12), 3=-19(LC 13)

Max Grav 1=98(LC 1), 3=98(LC 1), 4=165(LC 1)

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

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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



Job Truss Truss Type Qty Ply Weaver / Lot 67 Thomas Farm / Harnett E15350548 J1220-5685 VB7 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Jan 26 16:04:57 2021 Page 1 Comtech, Inc. ID:OVkgzkCZiFyccLxPk0HiYpztgE1-M0Djo4R5vrOi6gQjQhi3o??NGYs7HPdzFCLmnlzrRDq Scale = 1:7.7 3x4 8.00 12 3 0-0-6 9-0-c 3x4 > 3x4 // 3₇0₇1 0-0-9 2-11-8

Plate Off	sets (X,Y)	[2:0-2-0,Edge]										
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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P						Weight: 8 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-1 oc purlins.

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

REACTIONS. (size) 1=2-10-15, 3=2-10-15

Max Horz 1=-16(LC 8)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=81(LC 1), 3=81(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



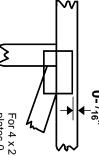


Symbols

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

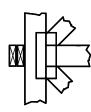
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



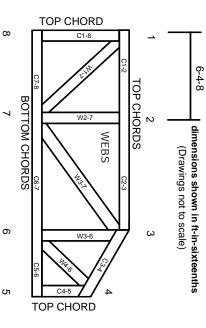
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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.