

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0123-0346

Weaver/Lot 1R West Preserve/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I56272870 thru I56272898

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

North Carolina COA: C-0844



January 23,2023

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty Ply Weaver/Lot 1R West Preserve/Harnett 156272870 J0123-0346 Α1 **ROOF SPECIAL** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:17 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:nGEYJn1QAngpJfECepmG8Mz?may-sfSgwUhpTQDp5ydj1o6F8XhBl53u8V018aJn9dzsWVu

41-0-4

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

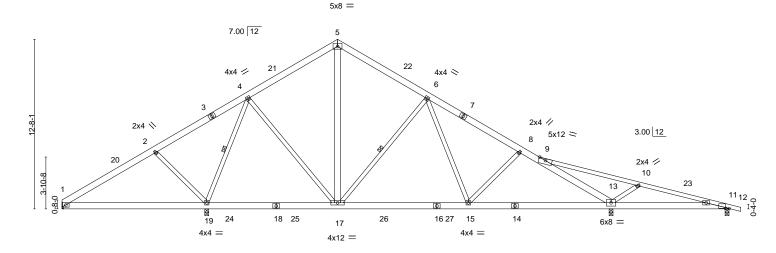
4-19, 6-17

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

1 Row at midpt

34-2-0 43-0-4 7-0-0 7-0-0 20-7-0 27-3-2 49-10-0 50-8₇8 0-10-8 6-10-14 6-8-2 6-8-2 6-10-14 8-10-4 6-9-12

Scale = 1:86.1



	1	10-9-12	1	9-9-4	'	9-9-4	ı		10-8-0	8-9	9-12
Plate Offsets	s (X,Y)	[11:0-3-4,0-0-3]									
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.11 15-17	>999	360	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.17 15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02 13	n/a	n/a		
BCDL 1	10.0	Code IRC2015/TI	PI2014	Matri	x-S	Wind(LL)	0.03 15-17	>999	240	Weight: 354 lb	FT = 20%
		1		1		1 '				1	

30-4-4

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 *Except* TOP CHORD

9-12: 2x4 SP No.1 2x6 SP No.1

10-9-12

BOT CHORD WEBS 2x4 SP No.2 *Except* 5-17: 2x6 SP No.1

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.

Max Horz 1=-297(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 13=-189(LC 11), 19=-186(LC 10)

All reactions 250 lb or less at joint(s) except 13=1672(LC 1), 1=329(LC 21), 19=2060(LC 17), 11=279(LC Max Grav 22)

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

TOP CHORD 2-4=-53/432, 4-5=-879/341, 5-6=-851/342, 6-8=-1514/361, 8-9=-1585/359,

9-13=-2019/488, 9-10=-136/537

BOT CHORD 17-19=0/367, 15-17=-27/1101, 13-15=-157/1388

WEBS 2-19=-484/260, 4-19=-1463/351, 4-17=0/659, 5-17=-133/470, 6-17=-753/272,

10-13=-608/280, 6-15=-23/481

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 46-3-11, Exterior(2) 46-3-11 to 50-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 MT20 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (it=lb) 13=189, 19=186,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



49-10-0

January 23,2023

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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



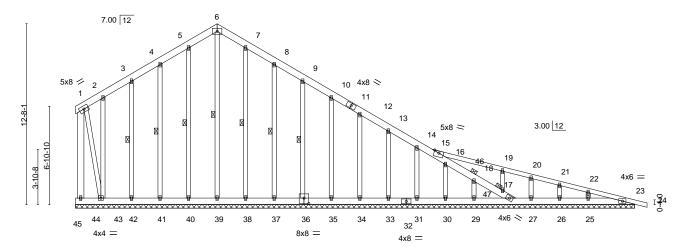
Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272871 J0123-0346 A1GE ROOF SPECIAL SUPPORT Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:20 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:nGEYJn1QAngpJfECepmG8Mz?may-HE7pZWkhmLcNyQLliwfymAJsLJ8ULwQUqYXRmyzsWVr

40-0-8 0-10-8 39-2-0 9-11-0 15-1-0 14-2-0

Scale = 1:80.7



39-2-0

Plate Off	sets (X,Y)	[36:0-4-0,0-4-8]											
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	0.20	Vert(LL)	0.00	23	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	0.00	24	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	23	n/a	n/a			
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 379 lb	FT = 20%	

LUMBER-BRACING-

5x8 =

2x6 SP No.1 *Except* TOP CHORD 15-24: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1

2x6 SP No.1 *Except* **WEBS** 1-43: 2x4 SP No.2

2x4 SP No.2

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 44-45,28-29,27-28,26-27,25-26,23-25. 6-39, 5-40, 4-41, 3-42, 7-38, 8-37, 9-36

WEBS JOINTS 1 Brace at Jt(s): 18, 17

REACTIONS. All bearings 39-2-0.

(lb) -Max Horz 44=-433(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 40, 41, 42, 38, 37, 36, 35, 34, 33, 30, 29, 26, 25 except 44=-184(LC 6), 43=-162(LC 7), 31=-109(LC 11),

23=-117(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 44, 39, 40, 41, 42, 38, 37, 36 35, 34, 33, 31, 30, 29, 26, 28, 23 except 43=337(LC 17), 27=405(LC 3), 25=277(LC 1)

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

TOP CHORD 5-6=-206/258, 6-7=-206/258, 14-15=-275/199, 15-16=-258/189, 16-18=-304/242, 17-18=-301/313, 17-28=-230/260, 15-19=-253/262, 21-22=-253/173, 22-23=-264/141

BOT CHORD 43-44=-174/430, 42-43=-179/400, 41-42=-179/400, 40-41=-179/400, 39-40=-179/400, 38-39=-179/400, 37-38=-179/400, 36-37=-179/400, 35-36=-180/401, 34-35=-180/401,

33-34=-180/401, 31-33=-180/401, 30-31=-180/401, 29-30=-180/401, 28-29=-401/180

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-4-4 to 4-9-1, Exterior(2) 4-9-1 to 5-6-3, Corner(3) 5-6-3 to 14-3-13, Exterior(2) 14-3-13 to 35-7-11, Corner(3) 35-7-11 to 40-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 41, 42, 38, 37, 36, 35, 34, 33, 30, 29, 26, 25 except (jt=lb) 44=184, 43=162, 31=109, 23=117.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 23,2023

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 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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 Weaver/Lot 1R West Preserve/Harnett 156272872 J0123-0346 A2 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:22 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-DdFZ_Clylys5BkVhpLhQrbO7C6onphpnHs0YrqzsWVp

6-8-2

34-2-0

6-10-14

0-10-8 Scale = 1:86.0

50-8₁8

49-10-0

6-9-12

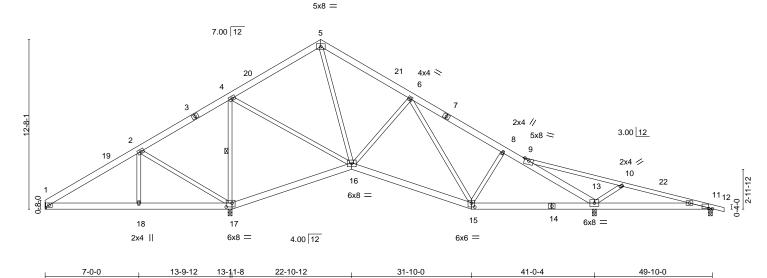


Plate Off	sets (X,Y)	[11:0-3-4,0-0-3], [15:0-3-0	0,0-3-8], [17:0-	-5-4,0-3-8]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.06 15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.13 15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03 11	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S	Wind(LL)	0.07 11-13	>999	240	Weight: 345 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*

7-0-0 7-0-0

6-11-8

6-7-8

9-12: 2x4 SP No.1

BOT CHORD 2x6 SP No.1 WEBS 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 6-0-0 oc bracing.

8-10-4

WEBS 4-17 1 Row at midpt

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.

Max Horz 1=-297(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 17=-170(LC 10), 13=-187(LC 11), 11=-150(LC 7) Max Grav All reactions 250 lb or less at joint(s) except 1=384(LC 21), 17=1990(LC 1), 13=1457(LC 1), 11=289(LC 22)

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

TOP CHORD 1-2=-376/150, 2-4=-27/568, 4-5=-607/240, 5-6=-662/253, 6-8=-1036/309,

8-9=-1075/267, 9-13=-1609/356, 9-10=-106/496

BOT CHORD 1-18=-120/281, 17-18=-120/281, 16-17=-581/279, 15-16=0/828, 13-15=-74/924 WEBS 2-18=0/308, 2-17=-671/225, 4-17=-1385/294, 4-16=-19/969, 5-16=-43/264,

6-16=-575/295, 8-15=-253/166, 10-13=-608/304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 5-0-9, Interior(1) 5-0-9 to 15-7-3, Exterior(2) 15-7-3 to 25-6-13, Interior(1) 25-6-13 to 45-8-11, Exterior(2) 45-8-11 to 50-8-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 MT20 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 17=170, 13=187, 11=150,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272873 J0123-0346 **A3 ROOF SPECIAL** 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:23 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-hppxBXma3G_ypt4tN3DfNoxNbW8tYDnwWWm5NGzsWVo 20-7-0 27-3-2 7-0-0 6-11-8 6-7-8 6-8-2 6-6-14 Scale = 1:72.5 5x5 = 5 7.00 12 16 3x10 / 3x4 <> 6 4x6 / 4x6 > 2x4 📏 2 4-11-5 6x8 = 0-8-0 Ø 13 10 8 3x6 = $\frac{1}{126x6} =$ ā 3x4 = 4.00 12 2x4 || 6x6 =10-9-12 13-11-8 22-10-12 31-10-0 33-10-0 Plate Offsets (X,Y)--[10:0-3-0,0-3-8], [12:0-3-0,0-3-8] DEFL. **PLATES GRIP** LOADING (psf) SPACING-CSI. in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.09 1-13 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.19 1-13 >874 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.02 9 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.02 >999 240 Weight: 271 lb Matrix-S 1-13 **BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.2

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

Max Horz 1=287(LC 7)

Max Uplift 1=-1(LC 10), 12=-194(LC 10), 9=-56(LC 11) Max Grav 1=486(LC 21), 12=1510(LC 1), 9=719(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-508/64, 4-5=-535/235, 5-6=-577/248, 6-7=-272/114, 7-9=-724/147

BOT CHORD 1-13=-169/434, 10-11=-104/505

WFBS 4-12=-1369/397, 4-11=-49/580, 6-10=-551/147, 7-10=-23/496, 4-13=-95/551,

2-13=-464/255

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 29-1-15, Exterior(2) 29-1-15 to 33-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 12=194.



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

4-12, 6-10

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

except end verticals.

1 Row at midpt



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Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272874 J0123-0346 A4 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:25 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-dCwicDoqbtEg2BEGVTF7TD0iiKqM08NDzqFCR9zsWVm 20-7-0 27-3-2 33-10-0 7-0-0 6-11-8 6-7-8 6-8-2 6-6-14 Scale = 1:72.5 5x5 = 7.00 12 16 3x10 / 3x4 <> 6 4x6 / 4x6 > 2x4 📏 2 4-11-5 6x8 = 0-8-0 Ø × 10 8 3x4 = 13 ā 12 3x4 = 4.00 12 2x4 || 6x6 =6x6 =10-9-12 13-11-8 22-10-12 31-10-0 33-10-0 10-9-12 3-1-12 Plate Offsets (X,Y)--[1:0-1-4,0-0-3], [10:0-3-0,0-3-8], [12:0-3-0,0-3-8] DEFL. **PLATES GRIP** LOADING (psf) SPACING-CSI. in (loc) I/def L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.08 1-13 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.16 1-13 >791 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.36 Horz(CT) 0.02 9 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) >999 240 Weight: 271 lb Matrix-S 0.01 11 **BRACING-**

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

6-10, 4-13

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

6-0-0 oc bracing: 1-13. **WEBS** 1 Row at midpt

REACTIONS. (size) 1=Mechanical, 9=0-3-8, 13=0-3-8

Max Horz 1=287(LC 7)

Max Uplift 9=-65(LC 11), 13=-200(LC 10)

Max Grav 1=350(LC 21), 9=863(LC 1), 13=1503(LC 1)

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

 $1\hbox{-}2\hbox{--}264/89,\ 2\hbox{-}4\hbox{--}98/322,\ 4\hbox{-}5\hbox{--}705/280,\ 5\hbox{-}6\hbox{--}803/308,\ 6\hbox{-}7\hbox{--}323/128,\ 7\hbox{-}9\hbox{--}865/185$ TOP CHORD

BOT CHORD 11-12=-81/292 10-11=-141/646

WEBS 4-11=0/363, 5-11=-88/383, 6-10=-737/196, 7-10=-55/617, 4-13=-1043/305,

2-13=-477/258

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 29-1-15, Exterior(2) 29-1-15 to 33-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 13=200.



January 23,2023



Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272875 J0123-0346 **A5 ROOF SPECIAL** 3 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:26 2023 Page 1 Comtech, Inc.

ID:nGEYJn1QAngpJfECepmG8Mz?may-5OU4pZoSLBMXgLpS2BmM?RZrHkAilS2MCU_I_bzsWVI

28-10-12

0.07 16-18

37-10-0 -0₋10₋8 0-10-8 26-7-0 39-10-0 6-1-12 4-7-12 5-9-12 6-7-8 6-8-2 4-6-14 2-0-0

> 5x8 = Scale = 1:80.3

> > 37-10-0

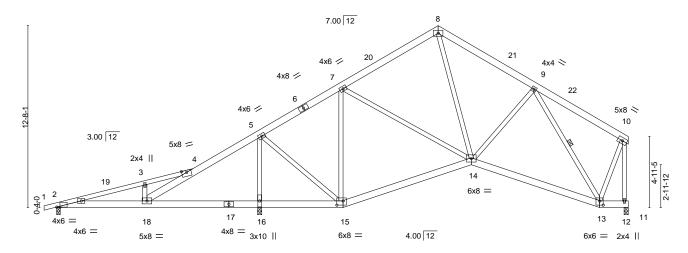
240

>999

39-10-0

Weight: 299 lb

FT = 20%



6-1-12 3-4-4 4-7-12 Plate Offsets (X,Y)--[2:0-2-12,0-0-1], [13:0-3-0,0-3-8], [15:0-5-4,0-3-8] **GRIP** LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.37 Vert(LL) -0.06 14-15 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.24 Vert(CT) -0.13 14-15 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.90 Horz(CT) 0.02 12 n/a n/a

Wind(LL)

19-11-8

LUMBER-BRACING-

9-6-0

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, 1-4: 2x4 SP No.1 except end verticals. **BOT CHORD** 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

14-1-12

WEBS 2x4 SP No.2 **WEBS** 1 Row at midpt 9-13

Matrix-S

REACTIONS. 12=0-3-8, 16=0-3-8, 2=0-3-0 (size)

6-1-12

Max Horz 2=292(LC 7)

Max Uplift 12=-67(LC 11), 16=-265(LC 10), 2=-143(LC 6) Max Grav 12=817(LC 18), 16=2153(LC 1), 2=255(LC 21)

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 4-18=-836/1008, 4-5=-860/1235, 5-7=-361/98, 7-8=-712/162, 8-9=-831/152,

9-10=-330/92. 10-12=-836/86

BOT CHORD 16-18=-951/676, 15-16=-952/676, 14-15=-33/454, 13-14=-48/609

WEBS 5-15=-567/1368, 7-15=-794/393, 7-14=-162/450, 8-14=-48/397, 9-13=-690/75,

10-13=0/590, 3-18=-345/177, 5-16=-1958/909

NOTES-

BCDL

10.0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 35-1-15, Exterior(2) 35-1-15 to 39-6-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 12 except (jt=lb) 16=265, 2=143.

6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 23,2023



Job Truss Truss Type Qty Ply Weaver/Lot 1R West Preserve/Harnett 156272876 SPECIAL TRUSS J0123-0346 A6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:28 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

Structural wood sheathing directly applied or 5-3-4 oc purlins,

7-14, 9-14, 9-13

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

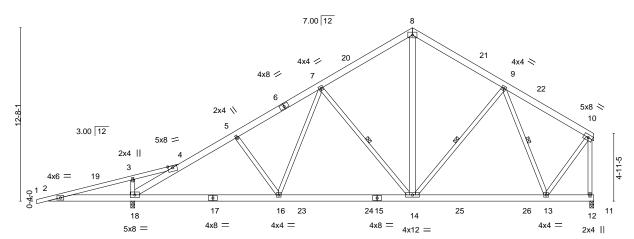
except end verticals.

6-0-0 oc bracing: 2-18.

1 Row at midpt

ID:nGEYJn1QAngpJfECepmG8Mz?may-2ncqEFqjtocFvfzrAcoq4se7oXocDVqffoTs2UzsWVj 33-3-2 39-10-0 -0₋10₋8 0-10-8 19-10-14 26-7-0 6-1-12 4-3-0 6-1-14 6-8-2 6-8-2 6-6-14

> 5x8 = Scale = 1:84.2



	6-1-12	10-8-0	3-1-2 6-8-2	6-8-2	3-1-2 3-5-12
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 0.62 BC 0.47 WB 0.37 Matrix-S	DEFL. in (loc) Vert(LL) -0.13 14-16 Vert(CT) -0.20 14-16 Horz(CT) 0.03 12 Wind(LL) -0.05 16-18	l/defl L/d >999 360 >999 240 2 n/a n/a	PLATES GRIP MT20 244/190 Weight: 307 lb FT = 20%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x6 SP No.1 *Except* TOP CHORD 1-4: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1

WEBS 2x4 SP No.2 *Except*

8-14: 2x6 SP No.1

REACTIONS. (size) 12=0-3-8, 18=0-3-8 Max Horz 18=292(LC 7)

Max Uplift 12=-84(LC 11), 18=-199(LC 10) Max Grav 12=1444(LC 17), 18=1936(LC 1)

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

 $2\hbox{-}3\hbox{-}-982/991,\ 3\hbox{-}4\hbox{-}-924/958,\ 4\hbox{-}18\hbox{-}-2613/1034,\ 4\hbox{-}5\hbox{-}-2011/179,\ 5\hbox{-}7\hbox{-}-1879/219,$ TOP CHORD

7-8=-1233/368, 8-9=-1263/366, 9-10=-837/187, 10-12=-1490/264 2-18=-920/1004, 16-18=-261/1814, 14-16=-174/1529, 13-14=-150/935

BOT CHORD WEBS 7-14=-755/209, 8-14=-169/852, 10-13=-124/1195, 7-16=-16/504, 9-13=-698/207,

3-18=-344/175

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 35-1-15, Exterior(2) 35-1-15 to 39-6-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb)
- 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272877 SPECIAL TRUSS J0123-0346 A7 5 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:30 2023 Page 1

ID:nGEYJn1QAngpJfECepmG8Mz?may-_9kbfxrzPPsz9y6DH1rl9HjStLSvhMAy76yz7MzsWVh 38-1-8 -0₋10₋8 0-10-8 19-10-14 26-7-0 33-3-2 6-1-12 4-3-0 6-1-14 6-8-2 6-8-2 4-10-6

> Scale = 1:86.5 5x8 =

Structural wood sheathing directly applied or 5-0-4 oc purlins,

7-15, 9-12

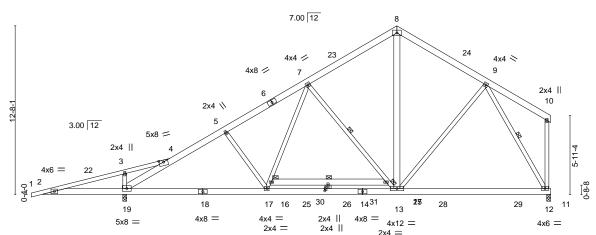
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-0-0 oc bracing: 2-19.

6-0-0 oc bracing: 15-16

1 Row at midpt



0440 044 7040 040 400 500	1 0-1-14	1-12 ₁ 9-6-0 ₁	16-9-12	₁ 19-10-14 21-5-0	26-7-0	33-3-2	36-4-4	38-1-8 ₁
6-1-12 3-4-4 7-3-12 3-1-2 1-6-2 5-2-0 b		1-12 3-4-4			5-2-0	6-8-2	3-1-2	1-9-4

Plate Offsets (X,Y)	[20:0-2-0,0-0-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.25 12-13	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.37 12-13	>999 240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.04 12	n/a n/a		
BCDL 10.0	Code IRC2015/T	PI2014	Matrix-S	Wind(LL)	-0.05 17-19	>999 240	Weight: 314 lb	FT = 20%
				1 ' '			_	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

2x6 SP No.1 *Except* TOP CHORD

1-4: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 *Except* **WEBS** 8-13,20-21: 2x6 SP No.1

(size) 12=0-3-8, 19=0-3-8

Max Horz 19=291(LC 7)

Max Uplift 12=-40(LC 10), 19=-145(LC 10) Max Grav 12=1591(LC 17), 19=1965(LC 2)

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

TOP CHORD 2-3=-989/988, 3-4=-931/955, 4-19=-2783/922, 4-5=-2188/61, 5-7=-2056/100,

7-8=-1270/284, 8-9=-1297/280

2-19=-916/1010, 17-19=-196/1959, 13-17=-97/1754, 12-13=-109/739 **BOT CHORD**

WEBS 7-15=-848/184, 13-15=-1063/135, 8-13=-78/880, 9-13=-9/545, 16-17=-26/430,

7-16=0/661, 9-12=-1462/232, 3-19=-343/175

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 33-3-2, Exterior(2) 33-3-2 to 37-10-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 12 except (jt=lb) 19=145.
- 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Ply Weaver/Lot 1R West Preserve/Harnett 156272878 J0123-0346 A7GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:32 2023 Page 1

ID:nGEYJn1QAngpJfECepmG8Mz?may-wYsL4ctDx16gOGGcPStmFipwG8F79MUFaQR4BFzsWVf 26-7-0 38-1-8 -0-10₋8 0-10-8 19-10-14 33-3-2 6-1-12 4-3-0 6-1-14 6-8-2 6-8-2 4-10-6

> Scale = 1:80.0 5x8 =

17-30, 16-31, 15-33, 14-34, 18-29, 19-28,

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

20-27

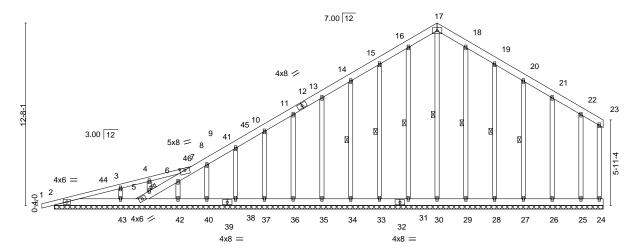
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

except end verticals.

1 Row at midpt

1 Brace at Jt(s): 5

10-0-0 oc bracing: 2-43,41-43.



	6-1-12	16-9-12	19-10-14	33-3-2	36-4-4 38-1-8
	6-1-12	10-8-0	3-1-2	13-4-4	3-1-2 1-9-4
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 0.14 BC 0.11 WB 0.14 Matrix-S	DEFL. in Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) -0.00	1 n/r 120 1 n/r 120	PLATES GRIP MT20 244/190 Weight: 362 lb FT = 20%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x6 SP No.1 *Except* TOP CHORD 1-7: 2x4 SP No.1

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

OTHERS 2x4 SP No.2

(lb) -

JOINTS All bearings 38-1-8. Max Horz 2=406(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 24, 30, 31, 33, 34, 35, 36, 37, 38, 40, 43, 29, 28, 27, 26, 25 except 2=-137(LC 6), 42=-113(LC 6) All reactions 250 lb or less at joint(s) 2, 24, 41, 30, 31, 33, 34, 35, 36, 37, 38, 40, 42, 29, 28, Max Grav

27, 26, 25 except 43=398(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-257/190, 7-8=-327/280, 8-9=-301/283, 9-10=-264/256, 14-15=-182/272, 15-16=-221/313, 16-17=-250/325, 17-18=-250/312, 18-19=-221/274

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 22-2-3, Corner(3) 22-2-3 to 30-11-13, Exterior(2) 30-11-13 to 33-5-7, Corner(3) 33-5-7 to 37-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 30, 31, 33, 34, 35, 36, 37, 38, 40, 43, 29, 28, 27, 26, 25 except (jt=lb) 2=137, 42=113.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



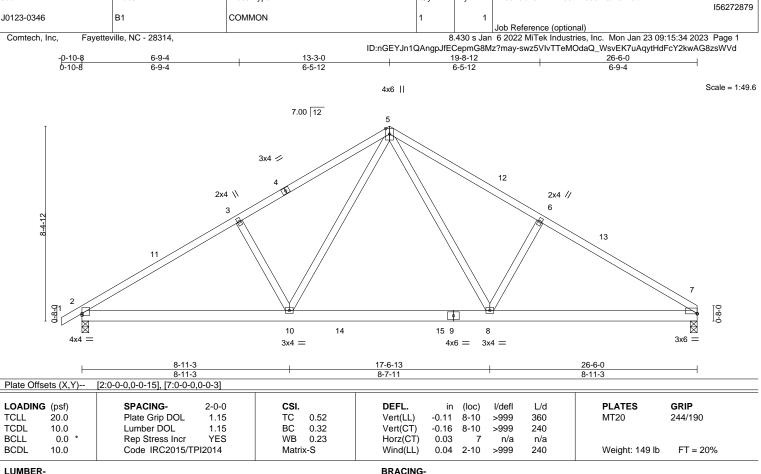
January 23,2023

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

AMSI/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

Qty

Ply

Weaver/Lot 1R West Preserve/Harnett

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

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

LUMBER-

Job

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

REACTIONS.

(size) 7=0-3-8, 2=0-3-8 Max Horz 2=196(LC 7)

Truss

Truss Type

Max Uplift 7=-85(LC 11), 2=-99(LC 10) Max Grav 7=1077(LC 18), 2=1136(LC 17)

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

2-3=-1667/409, 3-5=-1510/462, 5-6=-1514/469, 6-7=-1670/415 TOP CHORD

BOT CHORD 2-10=-238/1462, 8-10=-55/963, 7-8=-250/1326

WFBS 5-8=-158/711, 6-8=-392/256, 5-10=-147/706, 3-10=-383/240

NOTES-

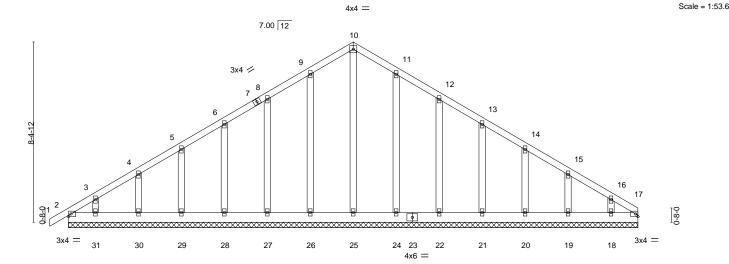
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 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) 7, 2.







ID:nGEYJn1QAngpJfECepmG8Mz?may-pJ5sw_wk?Fd6ttaNeHxiPYzeqmeY5AlqV2PHK0zsWVb 26-6-0 13-3-0 13-3-0



	26-6-0									
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 0.04 BC 0.02 WB 0.15 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 1 n/r 120 Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 17 n/a n/a	PLATES GRIP MT20 244/190 Weight: 185 lb FT = 20%						

BOT CHORD

26.6.0

LUMBER-BRACING-TOP CHORD

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

(lb) -

All bearings 26-6-0. Max Horz 2=244(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 17, 2, 26, 27, 28, 29, 30, 24, 22, 21, 20, 19 except

31=-108(LC 10), 18=-113(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 17, 2, 25, 26, 27, 28, 29, 30, 31, 24, 22, 21, 20, 19, 18

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

TOP CHORD 2-3=-263/188

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-3-0, Exterior(2) 3-3-0 to 8-10-3, Corner(3) 8-10-3 to 17-7-13, Exterior(2) 17-7-13 to 22-1-3, Corner(3) 22-1-3 to 26-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 2, 26, 27, 28, 29, 30, 24, 22, 21, 20, 19 except (jt=lb) 31=108, 18=113.

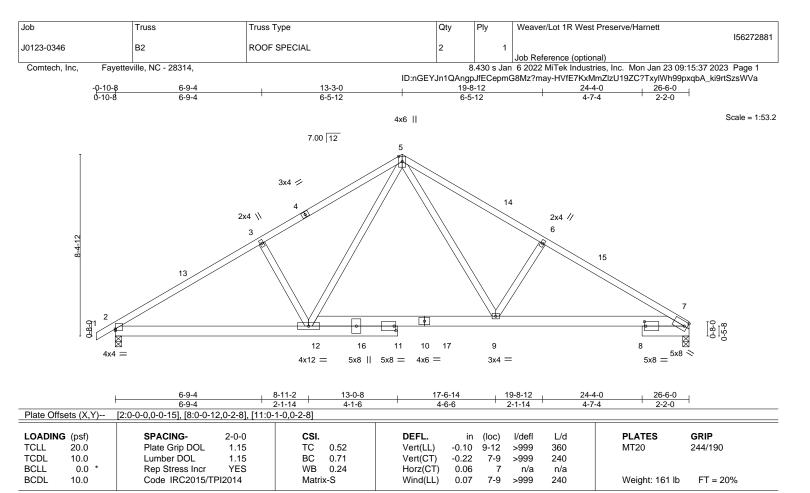


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

January 23,2023





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=196(LC 7)

Max Uplift 7=-85(LC 11), 2=-99(LC 10) Max Grav 7=1068(LC 18), 2=1126(LC 17)

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

2-3=-1709/420, 3-5=-1526/454, 5-6=-1647/490, 6-7=-1821/449 TOP CHORD

BOT CHORD 2-12=-248/1502, 9-12=-60/1006, 7-9=-284/1455

WFBS 5-12=-131/665, 3-12=-381/240, 5-9=-182/838, 6-9=-387/253

NOTES-

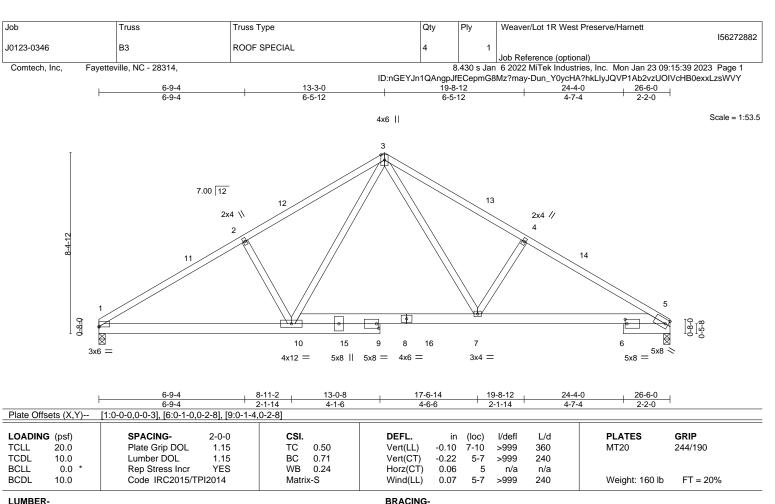
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.



Structural wood sheathing directly applied or 4-1-9 oc purlins.

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





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=192(LC 7)

Max Uplift 1=-85(LC 10), 5=-85(LC 11) Max Grav 1=1068(LC 17), 5=1069(LC 18)

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

TOP CHORD 1-2=-1714/432, 2-3=-1531/466, 3-4=-1649/496, 4-5=-1823/455

BOT CHORD 1-10=-266/1511, 7-10=-64/1007, 5-7=-289/1456 WFBS

3-10=-142/670, 2-10=-390/256, 3-7=-184/839, 4-7=-387/254

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



Structural wood sheathing directly applied or 4-1-8 oc purlins.

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

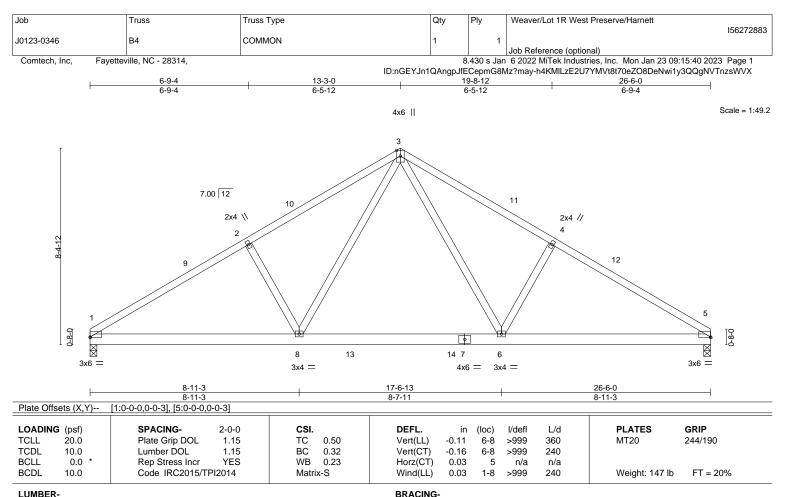


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 danage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 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 2x4 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=192(LC 7)

Max Uplift 1=-85(LC 10), 5=-85(LC 11) Max Grav 1=1077(LC 17), 5=1077(LC 18)

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

1-2=-1672/420, 2-3=-1516/474, 3-4=-1516/474, 4-5=-1672/420 TOP CHORD

BOT CHORD 1-8=-254/1471, 6-8=-58/964, 5-6=-254/1327

WFBS 3-6=-159/712, 4-6=-393/256, 3-8=-159/712, 2-8=-393/256

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 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) 1, 5.



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

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



Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272884 J0123-0346 C₁ COMMON Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:42 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-dTS7A1?Va5NGbo1X_Y26fpDdxAb6VryjtzscYgzsWVV 16-1-4 22-6-8 0-10-8 10-10-0 21-8-0 5-6-12 5-3-4 5-3-4 5-6-12 Scale = 1:46.7 5x5 = 3 8.00 12 10 2x4 💸 2x4 // 11 0-6-0 7 3x6 = 3x6 = 8x8 10-10-0 21-8-0 10-10-0 Plate Offsets (X,Y)--[1:0-3-10,0-1-8], [5:0-6-0,0-0-5], [7:0-4-0,0-4-8] **GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) -0.07 1-7 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.39 Vert(CT) -0.15 1-7 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.27 Horz(CT) 0.02 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 240 Weight: 144 lb FT = 20%Matrix-S 0.02 1-7 >999 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 1=Mechanical, 5=0-3-8

Max Horz 1=-183(LC 8)

Max Uplift 1=-66(LC 10), 5=-78(LC 11) Max Grav 1=856(LC 1), 5=910(LC 1)

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

1-2=-1157/351, 2-3=-892/301, 3-4=-892/300, 4-5=-1153/344 TOP CHORD

BOT CHORD 1-7=-182/930, 5-7=-169/888

WFBS 3-7=-156/676, 4-7=-363/232, 2-7=-367/248

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 6-5-3, Exterior(2) 6-5-3 to 15-2-13, Interior(1) 15-2-13 to 17-11-15, Exterior(2) 17-11-15 to 22-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



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.

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AMSI/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 Weaver/Lot 1R West Preserve/Harnett 156272885 J0123-0346 C1GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:44 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

5x5 =

ID:nGEYJn1QAngpJfECepmG8Mz?may-asatbj0l6jdzq6Bv6z5akDI?x_NIzoo0LHLicYzsWVT 10-10-0 10-10-0

Scale = 1:50.7

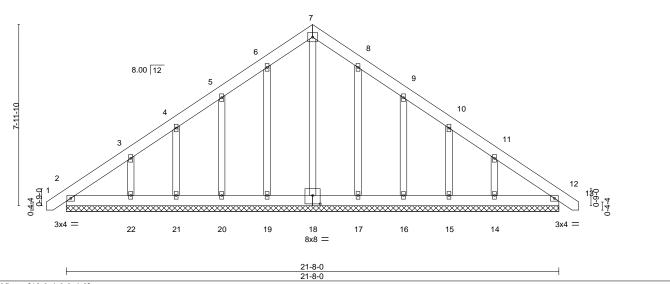


Plate Offsets (X,Y)--[18:0-4-0,0-4-8] SPACING-**PLATES GRIP** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) 0.00 12 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) 0.00 12 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 12 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 172 lb Matrix-S

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x6 SP No.1 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 21-8-0.

(lb) -Max Horz 2=231(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 21, 17, 15 except 20=-101(LC 10), 22=-146(LC 10),

16=-103(LC 11), 14=-143(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 17, 16, 15 except 22=255(LC 17),

14=251(LC 18)

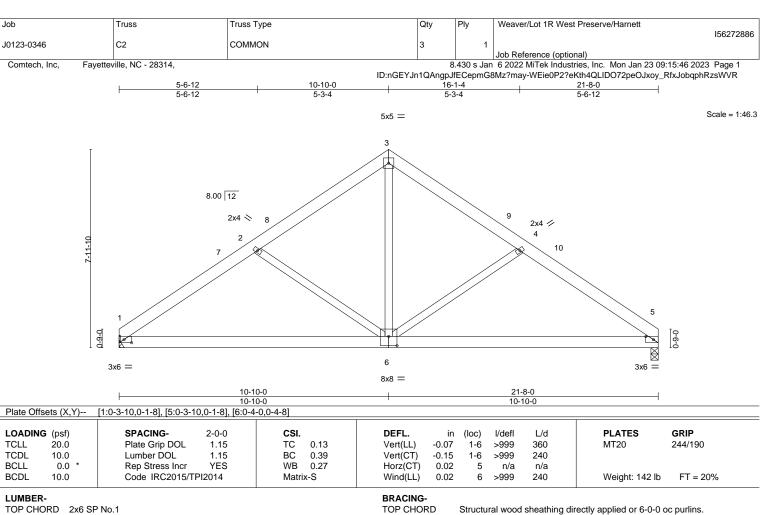
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-12 to 3-8-1, Exterior(2) 3-8-1 to 6-5-3, Corner(3) 6-5-3 to 15-2-13, Exterior(2) 15-2-13 to 17-11-15, Corner(3) 17-11-15 to 22-4-12 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.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 21, 17, 15 except (it=lb) 20=101, 22=146, 16=103, 14=143.







BOT CHORD

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

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

REACTIONS.

(size) 1=Mechanical, 5=0-3-8

Max Horz 1=-179(LC 8)

Max Uplift 1=-66(LC 10), 5=-66(LC 11) Max Grav 1=857(LC 1), 5=857(LC 1)

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

TOP CHORD 1-2=-1160/356, 2-3=-893/306, 3-4=-893/306, 4-5=-1156/355

BOT CHORD 1-6=-197/928, 5-6=-196/892

WFBS 3-6=-164/675, 4-6=-362/247, 2-6=-367/249

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 6-5-3, Exterior(2) 6-5-3 to 15-2-13, Interior(1) 15-2-13 to 17-1-7, Exterior(2) 17-1-7 to 21-6-4 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.
- 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, 5.



January 23,2023



Job Truss Truss Type Qty Ply Weaver/Lot 1R West Preserve/Harnett 156272887 J0123-0346 C3 COMMON
 ▲
 Job Reference (optional)

 8.430 s Jan
 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:48 2023
 Page 1
 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-SdpOR53GAx7PJjUhLp9Wu3Tf4bd7vZXcGvJwlKzsWVP 5-8-11 5-1-5 5-1-5 5-8-11 5x5 = Scale = 1:45.6 3 8.00 12 2x4 \\ 2x4 // 2 5 0-6-0 10 11 12 8 13 14 7 16 17 6 18 19 20 21 94x8 =15 8x8 = 6x8 = 8x8 = 4x8 = 21-8-0 7-5-2 Plate Offsets (X,Y)--[1:0-4-5,0-2-0], [5:0-4-5,0-2-0], [6:0-4-0,0-5-8], [8:0-4-0,0-5-8] LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) -0.05 1-8 >999 360 244/190 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.09

0.02

0.03

1-8

1-8

5

>999

>999

n/a

240

n/a

240

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

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

Weight: 326 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP No.1 WEBS 2x4 SP No.2

10.0

10.0

0.0

REACTIONS. (

(size) 1=Mechanical, 5=0-3-8 Max Horz 1=-177(LC 23) Max Uplift 1=-57(LC 8), 5=-142(LC 9) Max Grav 1=2996(LC 1), 5=2671(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

1.15

NO

TOP CHORD 1-2=-3685/200, 2-3=-3548/265, 3-4=-3291/270, 4-5=-3429/205

BOT CHORD 1-8=-177/2965, 6-8=-41/1989, 5-6=-103/2745

WEBS 2-8=-302/204, 3-8=-151/2133, 3-6=-161/1623, 4-6=-295/209

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

ВС

WB

Matrix-S

0.48

0.26

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=142.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 334 lb down at 0-8-12, 466 lb down and 21 lb up at 2-8-12, 466 lb down and 21 lb up at 4-8-12, 364 lb down and 41 lb up at 8-8-12, 309 lb down and 24 lb up at 10-8-12, 309 lb down and 24 lb up at 10-8-12, 309 lb down and 24 lb up at 10-8-12, 309 lb down and 24 lb up at 16-8-12, and 309 lb down and 24 lb up at 16-8-12, and 309 lb down and 24 lb up at 18-8-12, and 311 lb down and 22 lb up at 20-8-12 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

SEAL 036322

January 23,2023

Continued on page 2

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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

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



Job Truss Truss Type Qty Ply Weaver/Lot 1R West Preserve/Harnett 156272887 C3 J0123-0346 COMMON

Comtech, Inc, Fayetteville, NC - 28314,

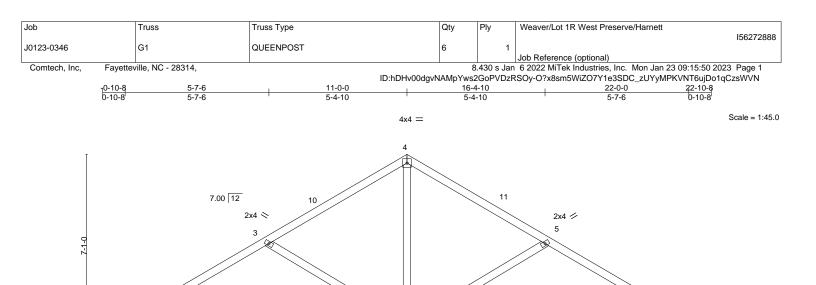
| **Z** | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:48 2023 Page 2 ID:nGEYJn1QAngpJfECepmG8Mz?may-SdpOR53GAx7PJjUhLp9Wu3Tf4bd7vZXcGvJwlKzsWVP

LOAD CASE(S) Standard

Vert: 9=-334(F) 10=-466(F) 11=-466(F) 12=-466(F) 13=-364(F) 15=-309(F) 17=-309(F) 18=-309(F) 19=-309(F) 20=-309(F) 21=-311(F)



818 Soundside Road Edenton, NC 27932



11-0-0 22-0-0 11-0-0

9

3x10 =

BRACING-

TOP CHORD

BOT CHORD

٠

4x6 =

8

Plate Offsets (X,Y) [2:0-0-4,	0-0-3], [6:0-0-4,0-0-3]						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.8/30.0 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 0.36 BC 0.42 WB 0.26 Matrix-S	- ' '	in (loc) -0.08 6-9 -0.17 6-9 0.02 6 0.02 2-9	>999 >999 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 121 lb

LUMBER-

REACTIONS.

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

> (size) 6=0-3-8, 2=0-3-8 Max Horz 2=-166(LC 12)

 \mathbb{X}

Max Uplift 6=-85(LC 15), 2=-85(LC 14) Max Grav 6=948(LC 1), 2=948(LC 1)

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

TOP CHORD 2-3=-1297/402, 3-4=-984/323, 4-5=-984/323, 5-6=-1297/402

BOT CHORD 2-9=-233/1038, 6-9=-233/1024

WFBS 3-9=-360/253, 4-9=-150/663, 5-9=-360/253

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=13ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-10-8 to 4-2-11, Exterior(2) 4-2-11 to 5-10-13, Corner(3) 5-10-13 to 16-1-3, Exterior(2) 16-1-3 to 17-9-5, Corner(3) 17-9-5 to 22-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



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

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

GRIP 244/190

FT = 20%

January 23,2023



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

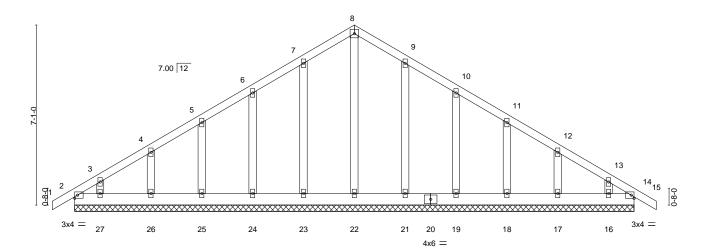
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

AMSI/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 Weaver/Lot 1R West Preserve/Harnett 156272889 J0123-0346 G1GE COMMON SUPPORTED GAB | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:52 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-LO3vHS6mEAeroLoSaeES3veNrC5HrQ8BBXH7u5zsWVL 22-10-8 0-10-8 -0-10-8 0-10-8 11-0-0 11-0-0

4x4 =



22-0-0 22-0-0									
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 0.04 BC 0.02 WB 0.09 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 14 n/r 120 Vert(CT) -0.00 15 n/r 120 Horz(CT) 0.00 14 n/a n/a	PLATES GRIP MT20 244/190 Weight: 145 lb FT = 20%					

LUMBER-BRACING-

TOP CHORD TOP CHORD 2x4 SP No.1 Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x6 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 22-0-0.

Max Horz 2=-208(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 21, 19, 18, 17, 16, 14 except 27=-101(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 14

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-7-3, Corner(3) 6-7-3 to 15-4-13, Exterior(2) 15-4-13 to 18-5-11, Corner(3) 18-5-11 to 22-10-8 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, 23, 24, 25, 26, 21, 19, 18, 17, 16, 14 except (jt=lb) 27=101.



Scale = 1:45.3

January 23,2023



Job Truss Truss Type Qty Ply Weaver/Lot 1R West Preserve/Harnett 156272890 J0123-0346 G2 COMMON GIRDER
 ▲
 Job Reference (optional)

 8.430 s Jan
 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:54 2023
 Page 1
 Comtech, Inc, Fayetteville, NC - 28314, ID:nGEYJn1QAngpJfECepmG8Mz?may-HnBfh880lnuZ1eyqh3Gw8Kjdl0aNJEAUermEzzzsWVJ 22-10-8 0-10-8 -0-10-8 0-10-8 22-0-0

5-4-10

5-4-10

Scale = 1:45.0

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

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

5-7-6

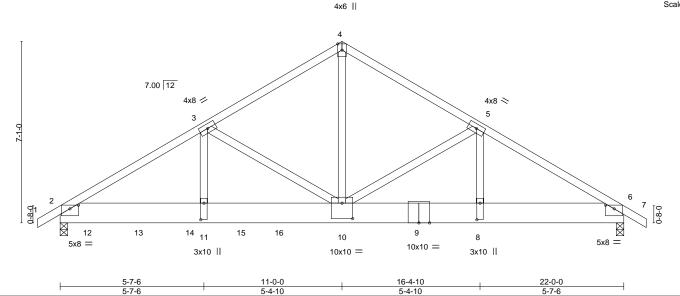


Plate Offsets (X,Y)--[2:0-4-0,0-1-11], [6:0-4-0,0-1-11], [8:0-7-12,0-1-8], [10:0-5-0,0-7-4], [11:0-7-12,0-1-8] **PLATES** LOADING (psf) SPACINGin (loc) I/defl L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.09 10-11 >999 360 MT20 244/190 -0.17 10-11 TCDL 10.0 Lumber DOL 1.15 ВС 0.87 Vert(CT) >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.51 Horz(CT) 0.03 6 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 0.06 10-11 >999 240 Weight: 326 lb FT = 20%Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x10 SP No.1

WEBS 2x4 SP No.2 REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-166(LC 25) Max Uplift 2=-437(LC 8), 6=-199(LC 9) Max Grav 2=5350(LC 1), 6=2561(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-7731/585, 3-4=-4315/361, 4-5=-4317/361, 5-6=-4212/315 TOP CHORD **BOT CHORD** 2-11=-502/6503, 10-11=-502/6503, 8-10=-189/3509, 6-8=-189/3509

WFBS 4-10=-270/3953, 5-10=-414/399, 5-8=-388/131, 3-10=-3385/369, 3-11=-211/3355

NOTES-

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=437, 6=199.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 891 lb down and 97 lb up at 1-0-12, 837 lb down and 86 lb up at 3-0-12, 837 lb down and 86 lb up at 3-0-12, and 837 lb down and 86 lb up at 7-0-12, and 2651 lb down and 162 lb up at 8-6-8 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: 1-4=-60, 4-7=-60, 2-6=-20

Concentrated Loads (lb)

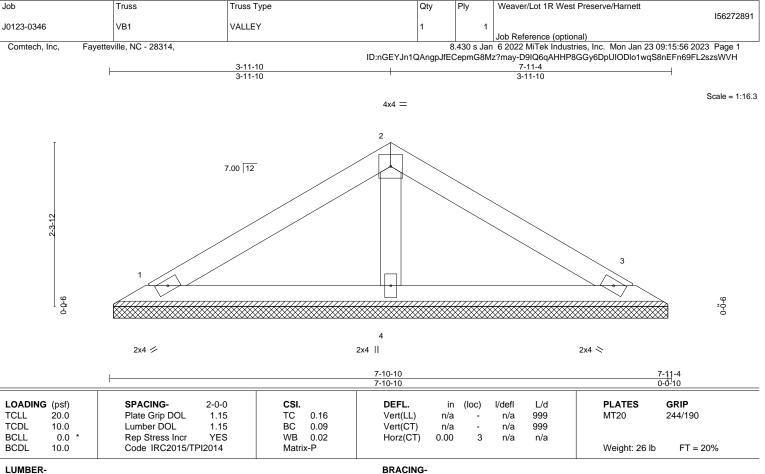
Vert: 12=-891 13=-837(F) 14=-837(F) 15=-837(F) 16=-2651



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 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

> 1=7-10-0, 3=7-10-0, 4=7-10-0 (size)

Max Horz 1=-48(LC 6)

Max Uplift 1=-25(LC 10), 3=-30(LC 11)

Max Grav 1=143(LC 1), 3=143(LC 1), 4=258(LC 1)

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

NOTES-

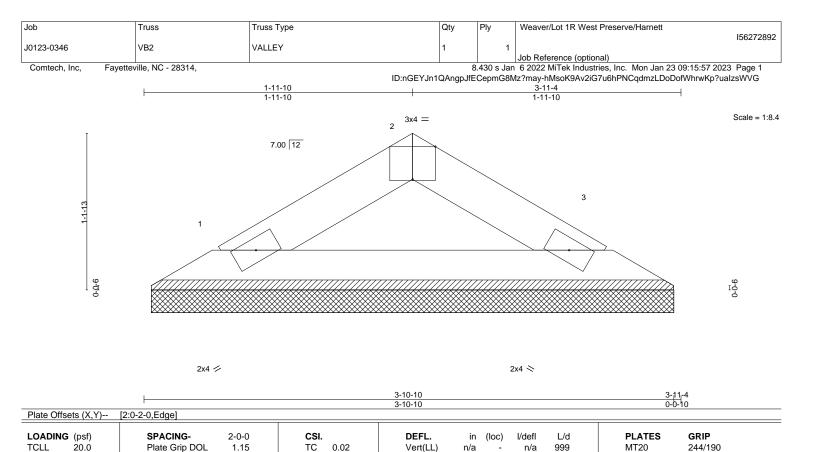
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.





LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

n/a

0.00

n/a

n/a

3

999

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-11-4 oc purlins.

Weight: 11 lb

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

REACTIONS. 1=3-10-0, 3=3-10-0 (size)

Max Horz 1=-20(LC 8)

Max Uplift 1=-9(LC 10), 3=-9(LC 11) Max Grav 1=113(LC 1), 3=113(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

NOTES-

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

ВС

WB

Matrix-P

0.07

0.00

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

1.15

YES

- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



FT = 20%



Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272893 J0123-0346 VC1 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:15:58 2023 Page 1 ID:nGEYJn1QAngpJfECepmG8Mz?may-9YQAXVBXp0O_WGFcwvLsIAuMUd62F6z4ZTkS6IzsWVF 10-7-4 10-7-4 4x4 = Scale = 1:44.8 8.00 12 15 16 9-0-0 3x4 / 3x4 × 13 12 11 10 9 8 3x4 = 21-2-8 0-0-9 0-0-9 Plate Offsets (X,Y)--[5:0-0-0,0-0-0], [6:0-0-0,0-0-0] **PLATES** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.14 0.00 Horz(CT) n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 92 lb

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

REACTIONS. All bearings 21-1-6.

Max Horz 1=162(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-113(LC 10), 9=-113(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=446(LC 17), 12=461(LC 17), 13=277(LC 17),

Matrix-S

9=461(LC 18), 8=277(LC 18)

Code IRC2015/TPI2014

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

WEBS 3-12=-318/213, 5-9=-318/213

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 6-2-7, Exterior(2) 6-2-7 to 15-0-1, Interior(1) 15-0-1 to 16-3-12, Exterior(2) 16-3-12 to 20-8-9 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=113, 9=113.
- 7) N/A



FT = 20%

Job Truss Truss Type Qty Weaver/Lot 1R West Preserve/Harnett 156272894 J0123-0346 VC2 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jan 23 09:16:00 2023 Page 1 ID:nGEYJn1QAngpJfECepmG8Mz?may-6xYwyBDnLdeilZP_2KNKNbziYRo1j1FN0nDZBdzsWVD 8-10-4 8-10-4 Scale = 1:39.6 4x4 = 3 8.00 12 2x4 || 2x4 || 5-10-13 3x4 > 3x4 / 11 7 9 8 6 3x4 =2x4 || 2x4 II 2x4 || Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.09 0.00 5 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 72 lb Matrix-S LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 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 17-7-6.

(lb) -Max Horz 1=-134(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-130(LC 10), 6=-129(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=402(LC 17), 9=461(LC 17), 6=461(LC 18)

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

2-9=-356/249, 4-6=-357/249 WEBS

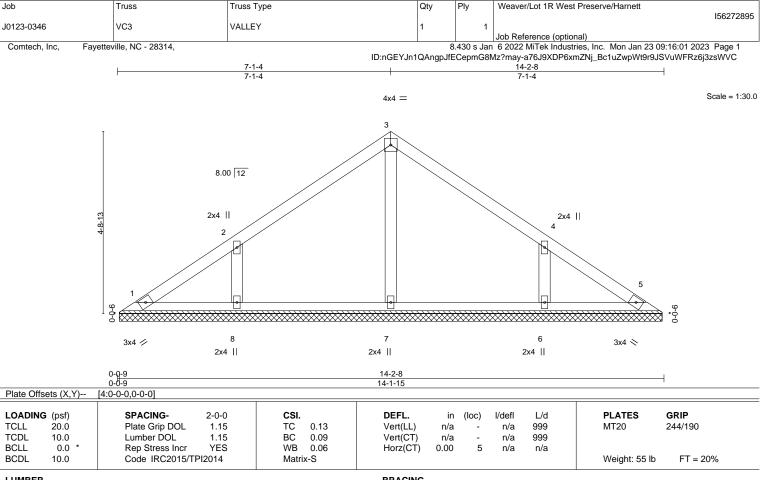
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 1 except (jt=lb) 9=130, 6=129.
- 6) N/A









LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **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 14-1-6.

(lb) -Max Horz 1=-106(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-105(LC 10), 6=-104(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=260(LC 1), 8=337(LC 17), 6=337(LC 18)

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

WEBS 2-8=-289/209, 4-6=-289/209

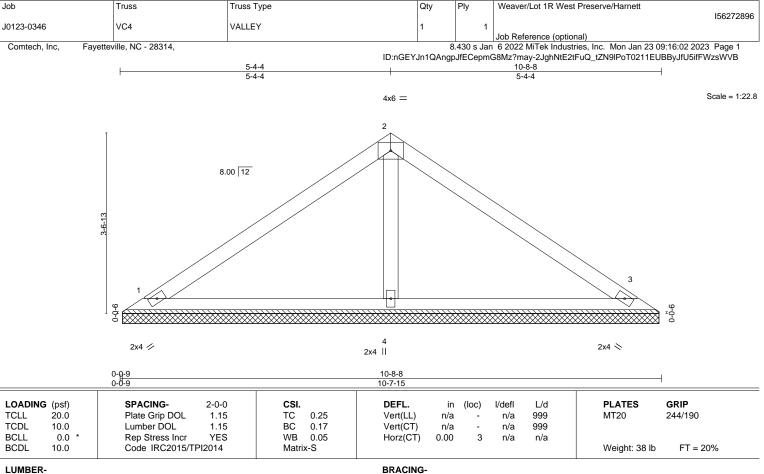
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 1 except (jt=lb) 8=105, 6=104.
- 6) N/A









TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. 1=10-7-6, 3=10-7-6, 4=10-7-6 (size)

Max Horz 1=-78(LC 6)

Max Uplift 1=-28(LC 10), 3=-35(LC 11), 4=-5(LC 10) Max Grav 1=193(LC 1), 3=193(LC 1), 4=392(LC 1)

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

NOTES-

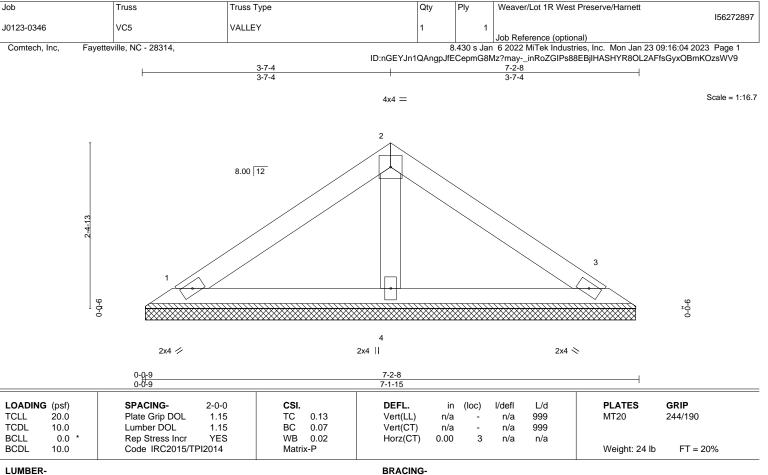
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 1, 3, 4.
- 6) N/A



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

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





TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. 1=7-1-6, 3=7-1-6, 4=7-1-6 (size) Max Horz 1=-50(LC 8)

Max Uplift 1=-24(LC 10), 3=-29(LC 11) Max Grav 1=135(LC 1), 3=135(LC 1), 4=227(LC 1)

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

NOTES-

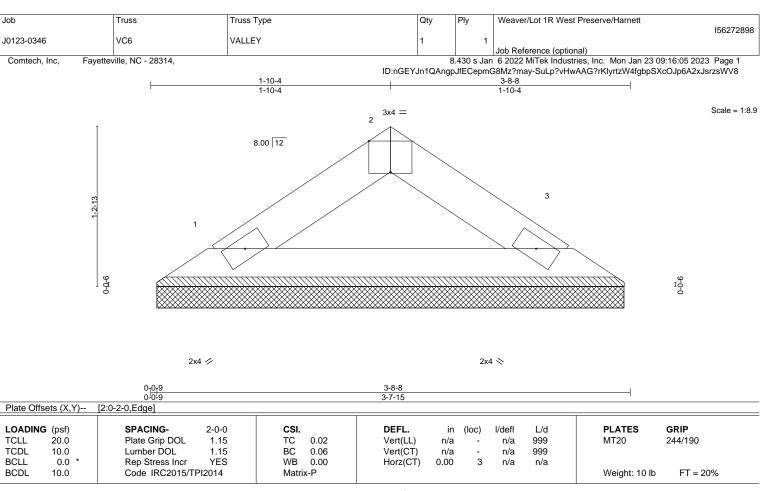
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 1, 3.
- 6) N/A



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

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





LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-8-8 oc purlins.

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

REACTIONS. (size) 1=3-7-6, 3=3-7-6

Max Horz 1=-22(LC 6)

Max Uplift 1=-8(LC 10), 3=-8(LC 11) Max Grav 1=109(LC 1), 3=109(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 1, 3.
- 6) N/A





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



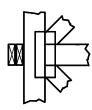
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



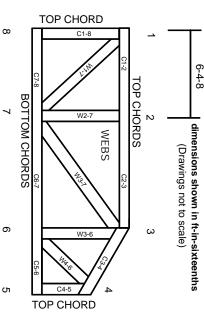
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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.