

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 23574A 240.2596.B.12x12

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I41752138 thru I41752158

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



June 23,2020

# Sevier, Scott

**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.



	19-6-0 19-6-0											
LOADING TCLL TCDL	(psf) 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.15 0.10	DEFL. Vert(LL) Vert(TL)	in 0.00 0.01	(loc) 11 11	l/defl n/r n/r	L/d 120 120	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2012/TF	YES PI2007	WB Matri	0.04 x-S	Horz(TL)	0.00	10	n/a	n/a	Weight: 89 lb	FT = 20%
LUMBER-						BRACING-						

BOT CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 19-6-0.

(lb) - Max Horz 2=74(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 18, 14, 13, 12, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=293(LC 23), 12=293(LC 24)

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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 9-9-0, Corner(3) 9-9-0 to 12-9-0, Exterior(2) 12-9-0 to 20-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 16, 17, 18, 14, 13, 12, and 10. This connection is for uplift only and does not consider lateral forces.



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

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







	7-11-14	-9-0 15-4-0	<u>19-6-0</u> 4-2-0		3-2-2	<u>30-8-0</u> 7-11-14	
Plate Offsets (X,Y)	[7:0-4-8,0-3-0]						
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 NO Code IRC2012/TPI2007	CSI. TC 0.93 BC 0.77 WB 0.66 Matrix-S	DEFL.     in       Vert(LL)     -0.18       Vert(TL)     -0.47       Horz(TL)     0.05	(loc) 2-17 2-17 8	l/defl L/d >999 240 >484 180 n/a n/a	PLATES MT20 Weight: 179 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 2-16: 2 WEBS 2x4 SP OTHERS 2x4 SP	No.2 No.2 *Except* x4 SP No.1 No.3 No.3		BRACING- TOP CHORD BOT CHORD JOINTS	Structura Rigid cei 1 Brace	al wood sheathing di iling directly applied at Jt(s): 18	rectly applied or 4-2-13 or 10-0-0 oc bracing.	oc purlins.
REACTIONS. All be (lb) - Max H Max U Max G	arings 11-5-8 except (jt=length) 2 orz 2=-113(LC 13) olift All uplift 100 lb or less at joir 3) rav All reactions 250 lb or less a 13=777(LC 1), 8=330(LC 1)	=0-3-8. t(s) 12, 11, 10, 8 except 2=-15 t joint(s) 12, 11, 10 except 2=93	7(LC 12), 13=-152(LC 13) 30(LC 1), 15=641(LC 3), 1	, 14=-136 5=439(L	6(LC C 1),		
FORCES.     (lb) - Max.       TOP CHORD     2-3=-       BOT CHORD     2-17=       WEBS     7-13=	Comp./Max. Ten All forces 250 1771/345, 3-5=-1380/207, 5-6=-4ł -377/1599, 15-17=-173/1217 -718/195, 5-18=-926/192, 15-18=	(lb) or less except when shown 11/195, 6-7=-509/183, 7-8=-34 936/194, 5-17=0/466, 3-17=-4	1/96 01/212				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V Enclosed; MWFRS ( 18-4-0, Interior(1) 18 forces & MWFRS for 3) Truss designed for w Gable End Details at 4) All plates are 1.5x4 fl 5) Gable studs spaced 6) This truss has been will fit between the b 8) One RT7A USP com connection is for upil 9) In the LOAD CASE(S) Stand 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-6=-6	loads have been considered for t ult=130mph (3-second gust) V(IR envelope) gable end zone and C- -4-0 to 31-6-8 zone; cantilever lef reactions shown; Lumber DOL=1 vind loads in the plane of the truss s applicable, or consult qualified b MT20 unless otherwise indicated. at 2-0-0 oc. designed for a 10.0 psf bottom ch n designed for a 10.0 psf bottom ch no designed for a 10.0 psf bottom ch no designed for a 10.0 psf bottom ch notcors recommended to connect ft only and does not consider later S) section, loads applied to the fact lanced): Lumber Increase=1.15, 0, 6-9=-60, 2-8=-20, 5-15=-3(F)	his design. C2012)=103mph; TCDL=6.0psi C Exterior(2) -0-10-8 to 2-1-8, I and right exposed ; end vertic .60 plate grip DOL=1.60 only. For studs exposed to win uilding designer as per ANSI/Ti brd live load nonconcurrent with sf on the bottom chord in all are ers. truss to bearing walls due to U al forces. e of the truss are noted as from Plate Increase=1.15	f; BCDL=6.0psf; h=30ft; C nterior(1) 2-1-8 to 15-4-0, al left and right exposed;C nd (normal to the face), se PI 1. h any other live loads. eas where a rectangle 3-6 PLIFT at jt(s) 2, 13, 14, 12 at (F) or back (B).	at. II; Exp Exterior( C for m -e Standa -0 tall by 2, 11, 10,	9 B; 2) 15-4-0 to embers and ard Industry 2-0-0 wide and 8. This	SE 044	AROL SIGN N AL 925 NEER. HANNING





fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	240.2596.B.12x12
					141752140
23574A	BG	COMMON GIRDER	1	2	
				5	Job Reference (optional)
84 Components, Dunn, NC 28334					8.330 s Apr 21 2020 MiTek Industries, Inc. Mon Jun 22 15:57:41 2020 Page 2

8.330 s Apr 21 2020 MiTek Industries, Inc. Mon Jun 22 15:57:41 2020 Page 2 ID:IRUvu6CsEmxbTOSip7BE4uyZSNq-ESvKQvjEok7W4?\_rP2jmh9ESXipZ99\_rEiz\_m5z3h2u

## 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, 1-7=-20

Concentrated Loads (lb)

Vert: 9=-1414(F) 17=-1456(F) 18=-1456(F) 19=-1456(F) 20=-1456(F) 21=-1456(F) 22=-1456(F) 23=-1414(F) 24=-1414(F) 25=-1414(F) 26=-1414(F) 27=-1414(F) 28=-1414(F) 29=-1414(F) 30=-1419(F) 26=-1414(F) 26=-1404(F) 2





	6-0-0 6-0-0		<u> </u>						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.44 BC 0.51 WB 0.11 Matrix-MS	DEFL. i Vert(LL) 0.00 Vert(CT) -0.10 Horz(CT) 0.0	n (loc) 9 6-12 0 6-12 1 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 42 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER-		· ·	BRACING-				·		

BOT CHORD

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=38(LC 12) Max Uplift 2=-213(LC 8), 4=-213(LC 9) Max Grav 2=533(LC 1), 4=533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-893/826, 3-4=-893/826

BOT CHORD 2-3=-893/826, 3-4=-893/826 BOT CHORD 2-6=-714/815, 4-6=-714/815

WEBS 3-6=-293/277

## NOTES-

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

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 5-4-8 oc purlins.

Rigid ceiling directly applied or 6-7-13 oc bracing.





12-0-0 12-0-0												
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	0.18	Vert(LL)	0.00	` Ź	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.01	7	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 46 lb	FT = 20%
LUMBER.						BRACING-						

BOT CHORD

#### LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

**REACTIONS.** All bearings 12-0-0.

(lb) - Max Horz 2=38(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=327(LC 1), 8=324(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.

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry

- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.

9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 8. This connection is for uplift only and does not consider lateral forces.



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

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





# June 23,2020

TREERING BY A MiTek Affiliate 818 Soundside Road

Edenton, NC 27932



	1		4-5-2					
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.32	DEFL. Vert(LL) -0.0	in (loc) 2 1-3	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 244/190
TCDL     10.0       BCLL     0.0 *       BCDL     10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2012/TPI2007	BC 0.21 WB 0.00 Matrix-P	Vert(TL) -0.0 Horz(TL) 0.0	1-3 0 3	>999 n/a	180 n/a	Weight: 15 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SI	2 No.2		BRACING- TOP CHORD	Struct	ural wood	sheathing di	rectly applied or 4-5-2	oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

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

Max Horz 1=61(LC 9) Max Uplift 1=-26(LC 8), 3=-35(LC 12)

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

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

### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-3-6 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 designe. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932



	I		3-6-0			0-11-2	I
Plate Offsets (X,Y)	[3:0-1-12,0-0-9], [4:0-0-0,0-1-12]						
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.14 BC 0.10	<b>DEFL.</b> in Vert(LL) -0.00 Vert(CT) 0.00	(loc) l/def 1 n/ 1 n/	l L/d r 120 r 90	PLATES MT20	<b>GRIP</b> 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2015/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00	6 n/a	a n/a	Weight: 17 lb	FT = 20%
LUMBER-			BRACING-				

BOT CHORD

LUMBER-	
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 7=4-5-2, 6=4-5-2, 2=4-5-2

Max Horz 2=57(LC 9) Max Uplift 7=-36(LC 12), 6=-37(LC 13), 2=-63(LC 8)

Max Grav 7=340(LC 1), 6=165(LC 19), 2=185(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 4-7=-264/167

### 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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-3-6 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 6. This connection is for uplift only and does not consider lateral forces.
- 10) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

Vert: 1-3=-60, 4-5=-355(F=-295), 2-6=-20



Structural wood sheathing directly applied or 4-5-2 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.

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





L	4-7-8	1	9-9-0
I	4-7-8	I	5-1-8
Plate Offsets (X,Y)	[1:0-3-0,0-0-6]		
LOADING     (psf)       TCLL     20.0       TCDL     10.0       BCLL     0.0     *       BCDL     10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2012/TPI2007	<b>CSI.</b> TC 0.41 BC 0.62 WB 0.09 Matrix-S	DEFL.     in     (loc)     l/defl     L/d       Vert(LL)     0.05     4-6     >999     240     MT20     244/190       Vert(TL)     -0.07     4-6     >999     180     MT20     244/190       Horz(TL)     0.01     4     n/a     n/a     MZ     Weight: 39 lb     FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.2 P No.2 P No.3		BRACING-TOP CHORDStructural wood sheathing directly applied or 6-0-0 oc purlins.BOT CHORDRigid ceiling directly applied or 9-2-5 oc bracing.

SLIDER Left 2x4 SP No.3 - x 2-5-9 **REACTIONS.** (size) 1=0-3-8, 4=0-3-0 Max Horz 1=-47(LC 13) Max Uplift 1=-105(LC 8), 4=-137(LC 9)

Max Grav 1=390(LC 1), 4=456(LC 1)

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

TOP CHORD 1-3=-568/499, 3-4=-572/479

BOT CHORD 1-6=-376/464, 4-6=-376/464

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-7-8, Exterior(2) 4-7-8 to 7-7-8, Interior(1) 7-7-8 to 10-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 4. This connection is for uplift only and does not consider lateral forces.







	1			10-3-0					1	
	Г			10-3-0						
LOADING	(psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (lo	oc) l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL)	0.00	7 n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(TL)	0.01	7 n/r	120			
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(TL)	0.00	6 n/a	n/a			
BCDL	10.0	Code IRC2012/TPI2007	Matrix-S					Weight: 43 lb	FT = 20%	
LUMBER-				BRACING-						

BOT CHORD

#### LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 10-3-0.

(lb) - Max Horz 2=43(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=267(LC 23), 8=267(LC 24)

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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-1-0 to 1-11-0, Exterior(2) 1-11-0 to 5-1-8, Corner(3) 5-1-8 to 8-1-8, Exterior(2) 8-1-8 to 11-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 7) will fit between the bottom chord and any other members.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.



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

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





late Offsets (X,Y) [2	8:0-1-12,0-0-0], [29:0-0-0,0-1-12], [36	6:0-2-4,0-1-8]						
ADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	l/defl	L/d	PLATES	GRIP
LL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	) 1	n/r	120	MT20	244/190
DL 10.0	Lumber DOL 1.15	BC 0.04	Vert(TL) 0.00	) 1	n/r	120		
L 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(TL) 0.01	1 22	n/a	n/a		
DL 10.0	Code IRC2012/TPI2007	Matrix-S					Weight: 211 lb	FT = 20%

BOT CHORD

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

#### BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

## **REACTIONS.** All bearings 36-1-0.

(lb) - Max Horz 2=138(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23

Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

TOP CHORD 11-12=-90/252, 12-13=-90/255

## NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-3-0, Exterior(2) 2-3-0 to 18-3-0, Corner(3) 18-3-0 to 21-3-0, Exterior(2) 21-3-0 to 36-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, and 23. This connection is for uplift only and does not consider lateral forces.



818 Soundside Road Edenton, NC 27932



		9-5-6	14-3-0	18-3-0	22-3-0		27-0-10		36-1-0	1
	1	9-5-6	4-9-10	4-0-0	4-0-0		4-9-10	1	9-0-6	1
Plate Offs	sets (X,Y)	[4:0-4-0,Edge], [10:0-4-0,Edge],	[12:0-0-0,0-0-7]							
LOADING	(nsf)	SPACING- 2-0-0	CSL		DEFL.	in	(loc) l/defl	l /d	PLATES	GRIP
TCU	20.0	Plate Grip DOI 115	TC	0.61	Vert(LL)	0.30	16-18 \999	240	MT20	244/190
TCDI	10.0	Lumber DOL 115	BC	0.80	Vort(TL)	0.00	16-18 \614	180	11120	210,100
RCU	0.0 *	Bon Stross Incr. VES		0.00	Horz(TL)	0.10	12 n/a	n/o		
DOLL	10.0		VVD Motrix	0.54		0.15	1Z 11/a	11/a	Waisht 011 lb	FT 200/
BCDL	10.0	Code IRC2012/1P12007	Matri	x-5	Allic -	0.25	15-16 392	360	weight: 211 lb	F1 = 20%
LUMBER	-				BRACING-		<b>.</b>			
TOP CHO	DRD 2x6 SP	DSS *Except*			TOP CHORD	)	Structural woo	d sheathing di	rectly applied or 3-1-2	oc purlins.
	1-4,10-	12: 2x4 SP DSS			BOT CHORD	)	Rigid ceiling d	irectly applied	or 9-7-6 oc bracing.	
BOT CHO	DRD 2x4 SP	No.1 *Except*			WEBS		1 Row at midp	t (	6-8	
	15-16: 2	2x8 SP No.2								
WEBS	2x4 SP	No.3 *Except*								
	6-8: 2x4	4 SP No.2								
REACTIC	NS (size	a) 2-0-3-8 12-Mechanical								
112/10/110	Max H	2 = 0.00, 12 = 0.001  metallical								
	Max H	$\frac{112}{2} = 137(10, 10)$	12)							
	IVIAX U	51112 = 173(LC 12), 12 = 148(LC 12)	13)							
	Max G	rav 2=1595(LC 2), 12=1548(LC	2)							
		• •• <del>•</del> •••								
FORCES	. (lb) - Max.	Comp./Max. Ten All forces 250	(lb) or less except	when shown.						
TOP CHO	DRD 2-3=-	3436/360, 3-5=-3136/266, 5-6=-2	2334/281, 6-7=-103	/774, 7-8=-102/76	67,					
	8-9=-2	2340/286, 9-11=-3067/277, 11-1	2=-3325/349							
BOT CHO	)RD 2-18=	-396/3126, 16-18=-85/2428, 15-	16=-85/2428, 13-15	5=-85/2428, 12-13	3=-260/2999					
WEBS	7-19=	-16/312, 9-13=-151/720, 11-13=	-483/279, 5-18=-15	5/796, 3-18=-556	/286,					
	5-16=	-33/441. 9-15=-17/460. 6-19=-33	331/376. 8-19=-333	1/376						
		,,	,							
NOTES-										
1) Unbals	anced roof live	loads have been considered for	this design							
2) Winds		ult_120mph (2 accord quat) \//I	(1115 UESIGI).			04. 0	ot II: Evp B:			
2) Willu.			(02012) = 10311p11		DL=0.0pSi, n=3		at. II, Exp B,			
Enclos	ea; IVIVERS (	envelope) gable end zone and C	-C Exterior(2) -0-10	)-8 to 2-8-13, Inte	rior(1) 2-8-13 to	18-3-	0, Exterior(2)	18-3-0		11111
to 21-1	0-5, Interior(1	) 21-10-5 to 36-0-4 zone; cantile	ver left and right ex	posed ; end vertic	cal left and right	expos	sed;C-C for me	mbers	11111	AD
and for	rces & MWFR	S for reactions shown; Lumber D	OL=1.60 plate grip	DOL=1.60					TH	
<ol><li>This true</li></ol>	uss has been	designed for a 10.0 psf bottom c	nord live load nonce	oncurrent with any	other live loads	s.				Citing In In
4) * This 1	truss has beer	n designed for a live load of 20.0	osf on the bottom cl	hord in all areas v	vhere a rectangl	le 3-6-	-0 tall by 2-0-0	wide	A STATE	55100,10
will fit b	between the b	ottom chord and any other mem	pers.						AND ADDY	2 MART
5) Ceilina	dead load (5.	0 psf) on member(s). 5-6. 8-9. 6	-19, 8-19							
6) Bottom	chord live loa	ad (40.0 psf) and additional botto	m chord dead load	(0.0 psf) applied	only to room. 15	5-16			5 1	
7) Refer t	o girder(s) for	truss to truss connections		(	,				= : SI	
8) Provid	e mechanical	connection (by others) of truce to	bearing plate capa	ble of withstandir	a 100 lb uplift a	t inint	(s) excent (it_l	b)	= : 04	1025 : =
3) FIUVIO			bearing plate capa		ig too in uplift a	ii joniti	(s) except (jt=i	0)	= : 044	+929 : :
12=14				alla dua ta LIDU.	T at it/a) 0 This		antion in for-	lift and	5 1	1 5
9) One R	ITA USP coni	nectors recommended to connect	t truss to bearing w	ails due to UPLIF	i at jt(s) 2. This	conn	ection is for up	nint only	10 Mar 10	
and do	oc not concide	or latoral forces								

and does not consider lateral forces.
ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.







						36-6-0						1
1						36-6-0						1
Plate Offset	ts (X,Y)	[29:0-2-4,0-1-8], [37:0-2-4	1,0-1-8]									
	. ,											
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	0.07	Vert(LL)	-0.00	22	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	0.00	22	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.01	22	n/a	n/a		
BCDL	10.0	Code IRC2012/TP	12007	Matri	x-S						Weight: 214 lb	FT = 20%
LUMBER-						BRACING-					_	

BOT CHORD

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

OTHERS 2x4 SP No.3

#### REACTIONS. All bearings 36-6-0.

Max Horz 2=133(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 36, 38, 39, 40, 41, 42, 32, 31, 30, 28, 27, 26, 25, 24. 22

Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 36, 38, 39, 40, 41, 42, 32, 31, 30, 28, 27, 26, 25, 24, 22

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

TOP CHORD 11-12=-92/258, 12-13=-92/261

#### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-3-0, Exterior(2) 2-3-0 to 18-3-0, Corner(3) 18-3-0 to 21-3-0, Exterior(2) 21-3-0 to 37-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 34, 35, 36, 38, 39, 40, 41, 42, 32, 31, 30, 28, 27, 26, 25, 24, and 22. This connection is for uplift only and does not consider lateral forces.



818 Soundside Road Edenton, NC 27932

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

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



	9-5-6	18-3-0		27-0-10	36-1-0					
	9-5-6     18-3-0     27.0-10     36-1-0       9-5-6     8-9-10     9-0-6       9-5.6     8-9-10     9-0-6       9-5.6     9-0.6     9-0.6       9-5.6     9-0.0     9-0.6       9-5.6     9-0.6     9-0.6       9-5.6     9-0.6     9-0.6       9-5.6     9-0.6     9-0.6       9-5.6     10:0-0-0.0-0.7     9-0.6       0.0     Plate Grip DOL 1.15     TC 0.88     Vert(LL) -0.22 11-13 >999 240     MT20 244/190       0.0     Lumber DOL 1.15     BC 0.87     Vert(TL) -0.61 2-15 >706 180     Mt20 244/190       0.0     Code IRC2012/TPI2007     Matrix-S     BRACING-     Weight: 175 lb     FT = 20%       0     2x4 SP No.2     TOP CHORD     Structural wood sheathing directly applied.     BOT CHORD     Rigid ceiling directly applied or 9-6-4 oc bracing.       12-14: 2x4 SP No.3     .     (size) 2=0-3-8, 10=Mechanical     Max Horz 2=138(LC 12)     Max Horz 2=138(LC 12)     Max Horz 2=138(LC 12), 10-173(LC 13)       Max Horz 2=1498(LC 12), 10-173(LC 13)     .     2-3-8-3073/332, 3-5-8-728/23/29, 5-6-1926/298, 7-9=-2719/23/1, 9-10-2975/3									
Plate Offsets (X,Y)	[10:0-0-0,0-0-7]									
LOADING     (psf)       TCLL     20.0       TCDL     10.0       BCLL     0.0     *       BCDL     10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2012/TPI2007	<b>CSI.</b> TC 0.88 BC 0.87 WB 0.87 Matrix-S	DEFL.     in       Vert(LL)     -0.22       Vert(TL)     -0.61       Horz(TL)     0.17	(loc) l/defl L/d 11-13 >999 240 2-15 >706 180 10 n/a n/a	PLATES MT20 Weight: 175 lb	<b>GRIP</b> 244/190 FT = 20%				
LUMBER- TOP CHORD 2x4 SP No.2 BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied.   BOT CHORD 2x4 SP No.1 *Except* 12-14: 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 9-6-4 oc bracing.   WEBS 2x4 SP No.3 Exact Ions. (size) 2=0-3-8, 10=Mechanical Maximum 2										
FORCES. (lb) - Max. TOP CHORD 2-3=-	plift 2=-198(LC 12), 10=-173(LC 13) rav 2=1497(LC 1), 10=1434(LC 1) Comp./Max. Ten All forces 250 (lb) or 3073/392, 3-5=-2782/329, 5-6=-1926/29	less except when shown. 91, 6-7=-1926/296, 7-9=-2	719/321,							
9-10=-2975/379 BOT CHORD 2-15=-423/2776, 13-15=-253/2252, 11-13=-154/2223, 10-11=-283/2664 WEBS 6-13=-87/1100, 7-13=-702/231, 7-11=-22/502, 9-11=-308/202, 5-13=-735/235, 5-15=-27/550, 3-15=-370/209										
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V Enclosed; MWFRS ( 21-3-0, Interior(1) 21 forces & MWFRS for	e loads have been considered for this de ult=130mph (3-second gust) V(IRC2012 envelope) gable end zone and C-C Ext -3-0 to 36-0-4 zone; cantilever left and r reactions shown; Lumber DOL=1.60 p	sign. 2)=103mph; TCDL=6.0psf; erior(2) -0-10-8 to 2-1-8, In right exposed ; end vertica ate grip DOL=1.60	BCDL=6.0psf; h=30ft; C terior(1) 2-1-8 to 18-3-0 I left and right exposed;	Cat. II; Exp B; , Exterior(2) 18-3-0 to C-C for members and						

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

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=173.

 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSIVTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932



<b>—</b>		9-5-6		18-3	-0		2	27-0-10			36-6-0	
		9-3-0		0-9-1	10			0-9-10			9-3-6	
LOADING (particular descent) TCLL 20 TCDL 10	sf) ).0 ).0	<b>SPACING-</b> Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	<b>CSI.</b> TC BC	0.81 0.86	<b>DEFL.</b> Vert(LL) Vert(TL)	in -0.22 -0.61	(loc) 14-16 2-16	l/defl >999 >706	L/d 240 180	PLATES MT20	<b>GRIP</b> 244/190
BCLL 0 BCDL 10	).0 * ).0	Rep Stress Incr Code IRC2012/1	YES TPI2007	WB Matrix	0.87 :-S	Horz(TĹ)	0.17	10	n/a	n/a	Weight: 178 lb	FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS.	2x4 SP 2x4 SP 13-15: 2 2x4 SP . (size Max Ho Max U Max U	No.2 No.1 *Except* 2x4 SP No.2 No.3 2) 2=0-3-8, 10=0-5-8 orz 2=133(LC 16) plift 2=-198(LC 12), 10= ray 2=1506(LC 1), 10=	199(LC 13) 1511(LC 1)			BRACING- TOP CHOR BOT CHOR	D D	Structu Rigid c	iral wood eiling dire	sheathing dire	ectly applied or 2-2-0 o	c purlins.
FORCES. (I TOP CHORD BOT CHORD WEBS	b) - Max. ( 2-3=-3 9-10= 2-16= 6-14= 5-16=	Comp./Max. Ten All fc 3095/392, 3-5=-2804/32 -3067/388 -418/2797, 14-16=-248 -86/1118, 7-14=-725/23 -27/550, 3-16=-370/209	orces 250 (lb) or 29, 5-6=-1949/29 /2273, 12-14=-1- 34, 7-12=-25/537	less except ( 3, 6-7=-1949 49/2265, 10- 7, 9-12=-352/	when shown. 9/293, 7-9=-2 12=-280/276 206, 5-14=-7	786/327, 5 35/234,						
NOTES-	d roof live	landa haya haan aanai	dorod for this do	aian								

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-3-0, Exterior(2) 18-3-0 to 21-3-0, Interior(1) 21-3-0 to 37-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and

forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.













818 Soundside Road Edenton, NC 27932





June 23,2020

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932



			14-4-0			· · ·
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 IRC2012/TPI2007	CSI. TC 0.17 BC 0.12 WB 0.05 Matrix-S	DEFL. in Vert(LL) n/a Vert(TL) n/a Horz(TL) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999 0 5 n/a n/a	PLATES     GRIP       MT20     244/190       Weight: 48 lb     FT = 20%	
L <b>UMBER-</b> TOP CHORD 2x4 SP BOT CHORD 2x4 SP	No.2 No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing Rigid ceiling directly applie	directly applied or 6-0-0 oc purlins. ed or 10-0-0 oc bracing.	

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS. All bearings 14-4-0.

Max Horz 1=45(LC 12) (lb) -

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=293(LC 1), 8=310(LC 23), 6=310(LC 24)

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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 7-2-0, Exterior(2) 7-2-0 to 10-2-0, Interior(1) 10-2-0 to 13-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.







#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-2-0, Exterior(2) 5-2-0 to 8-2-0, Interior(1) 8-2-0 to 9-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.



818 Soundside Road Edenton, NC 27932



2x4 ⋍

2x4 🗢

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

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

	$\vdash$		6-4-0       6-4-0       6-4-0       6-4-0       6-4-0       2-0-0     CSI.       1.15     TC     0.10       VES     WB     0.00       Matrix-P     DEFL.     in     (loc)     l/defl     L/d       Weight: 17 lb     FT = 20%									
Plate Offs	sets (X,Y)	[2:0-2-0,Edge]									-	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2012/TI	PI2007	Matri	x-P						Weight: 17 lb	FT = 20%
	-					BRACING						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-4-0, 3=6-4-0 Max Horz 1=-17(LC 13) Max Uplift 1=-23(LC 12), 3=-23(LC 13) Max Grav 1=193(LC 1), 3=193(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
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- 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.





