

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22020382-01 Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Lexington, NC).

Pages or sheets covered by this seal: T27235540 thru T27235586

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



March 25,2022

Lee, Julius

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.



2-0-0	
2-0-0	

Plate Off	sets (X,Y)	[2:0-3-8,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.12	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	ĸ-MP						Weight: 10 lb	FT = 20%
											_	

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=67(LC 12) Max Uplift 3=-16(LC 12), 2=-70(LC 12), 4=-10(LC 9) Max Grav 3=37(LC 1), 2=186(LC 1), 4=31(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 1-11-14 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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, 4.
- 6) One RT7A MiTek 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.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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 **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MiTek Affilia 818 Soundside Road Edenton, NC 27932



		\vdash		2-0-0		-			2.0.0		
Plate Offsets (X,Y)	[2:Edge,0-0-13]			2-0-0					2-0-0		
LOADING (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1	1.15	TC	0.14	Vert(LL)	0.03	6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1	1.15	BC	0.31	Vert(CT)	-0.03	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI20	14	Matrix	k-MP						Weight: 17 lb	FT = 20%
LUMBER-					BRACING-						

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 3-4.

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=68(LC 8) Max Uplift 4=-25(LC 4), 2=-93(LC 8), 5=-38(LC 5) Max Grav 4=58(LC 1), 2=251(LC 1), 5=96(LC 3)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) 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) 4, 5.
- One RT7A MiTek 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.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 14 lb down and 30 lb up at 2-0-0 on top chord, and 6 lb down and 18 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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, 3-4=-60, 5-7=-20

Continued on page 2

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

"Special" indicates special hanger(s) or other connection device(s) required at location(s)shown. The design/selection of such special

connection device(s) is the responsibility of others. This applies

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

to all applicable truss designs in this job.

March 25,2022



Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
						T27235541
22020382-01	J5A	JACK-OPEN GIRDER	2	1		
					Job Reference (optional)	
Carter Components (Lexing	ton), Lexington, NC - 272	95,	8	3.530 s Dec	c 6 2021 MiTek Industries, Inc. Thu Mar 24 11:13:10 2022	Page 2

ID:R2Eywbwb09xDUuNDwBLKtWzWU3y-SCfnpoMcLG7vMLkOPRtjXmu244mBJJ8egxhayhzXkld

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 6=-0(B)

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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	0.19	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	12014	Matri	x-AS						Weight: 16 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

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

Max Horz 2=100(LC 12) Max Uplift 3=-45(LC 12), 2=-76(LC 12), 4=-18(LC 9) Max Grav 3=101(LC 1), 2=251(LC 1), 4=71(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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, 4.
- 6) One RT7A MiTek 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.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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1	6-0-0	1	10-0-0	16-0	-0
F	6-0-0	I	4-0-0	6-0-	0
Plate Offsets (X,Y)	[2:0-0-0,0-1-5], [3:0-4-0,0-1-11], [4:0-4-0),0-1-11], [5:Edge,0-1-5]			
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 IRC2018/TPI2014	CSI. TC 0.40 BC 0.36 WB 0.08 Matrix-AS	DEFL. in Vert(LL) -0.10 Vert(CT) -0.13 Horz(CT) 0.02	(loc) l/defl L/d 8-11 >999 240 8-11 >999 180 5 n/a n/a	PLATES GRIP MT20 244/190 Weight: 67 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S WEDGE Left: 2x4 SP No 3 Ri	P No.2 P No.2 P No.3 abt: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir 2-0-0 oc purlins (6-0-0 max.): Rigid ceiling directly applied.	rectly applied, except 3-4.

REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=-84(LC 10)

Max Uplift 2=-240(LC 12), 5=-240(LC 12) Max Grav 2=720(LC 1), 5=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-877/615, 3-4=-676/569, 4-5=-877/630

 TOP CHORD
 2-3=-877/615, 3-4=-676/569, 4-5=-877/630

 BOT CHORD
 2-8=-443/681, 7-8=-435/676, 5-7=-443/681

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-0-0, Exterior(2E) 6-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 17-4-0 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) Provide adequate drainage to prevent water ponding.
- 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) 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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REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-63(LC 6) Max Uplift 2=-375(LC 8), 6=-37(

Max Uplift 2=-375(LC 8), 6=-376(LC 8) Max Grav 2=945(LC 1), 6=946(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1314/514, 3-4=-1088/464, 4-5=-1090/465, 5-6=-1317/515

BOT CHORD 2-9=-404/1066, 8-9=-529/1364, 6-8=-396/1068

WEBS 3-9=-171/443, 4-9=-352/154, 4-8=-349/153, 5-8=-171/444

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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) One RT7A MiTek 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.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 47 lb up at 2-0-12, 72 lb down and 70 lb up at 4-0-0, 81 lb down and 66 lb up at 6-0-12, 81 lb down and 66 lb up at 8-0-12, 81 lb down and 66 lb up at 10-0-12, and 72 lb down and 70 lb up at 12-0-0, and 39 lb down and 47 lb up at 13-11-4 on top chord, and 66 lb down and 42 lb up at 2-0-12, 31 lb down and 28 lb up at 4-0-12, 31 lb down and 28 lb up at 6-0-12, 31 lb down and 28 lb up at 10-0-12, and 31 lb down and 28 lb up at 11-11-4, and 66 lb down and 42 lb up at 13-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) 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

Continued on page 2

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March 25,2022



Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
					T272355	;44
22020382-01	H5GR	HIP GIRDER	1	1		
					Job Reference (optional)	
Carter Components (Lexingt	on), Lexington, NC - 272	95,	. 8	.530 s Dec	6 2021 MiTek Industries, Inc. Thu Mar 24 11:13:05 2022 Page 2	

ID:R2Eywbwb09xDUuNDwBLKtWzWU3y-5Esum5IUXjVdGZsRcuHYqiB773x_e0bvWfzpHUzXkli

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 5-7=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 3=-41(B) 5=-41(B) 9=-23(B) 4=-41(B) 8=-23(B) 18=-41(B) 19=-41(B) 22=-66(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-66(B) 25=-23(B) 26=-23(B) 26=-66(B) 25=-23(B) 26=-23(B) 26=-2

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

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. (size) 1=7-8-2, 3=7-8-2, 4=7-8-2 Max Horz 1=39(LC 11) Max Uplift 1=-23(LC 12), 3=-23(LC 12)

Max Grav 1=139(LC 1), 3=139(LC 1), 4=255(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 3-10-8, Exterior(2R) 3-10-8 to 6-10-8, Interior(1) 6-10-8 to 7-2-8 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) 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.

 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25,2022

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		<u>11-8-5</u> 11-8-5) 	<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 IncrYESCode IRC2018/TPI2014	CSI. DE TC 0.41 Ve BC 0.28 Ve WB 0.08 Ho Matrix-S Ho Ho	FL. in (loc) l/defl rt(LL) n/a - n/a rt(CT) n/a - n/a rz(CT) 0.00 3 n/a	L/d PLATES GRIP 999 MT20 244/190 999 n/a Weight: 40 lb FT = 20%
LUMBER-		BR	ACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. 1=11-8-2, 3=11-8-2, 4=11-8-2 (size) Max Horz 1=-62(LC 10) Max Uplift 1=-26(LC 12), 3=-26(LC 12) Max Grav 1=202(LC 1), 3=202(LC 1), 4=449(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-292/106WEBS

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-10-8, Exterior(2R) 5-10-8 to 8-10-8, Interior(1) 8-10-8 to 11-2-8 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) 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. 7) N/A

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

March 25,2022

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818 Soundside Road Edenton, NC 27932



	8-	0-0		16-0-0		
Plate Offsets (X,Y	Be-00 16-0-0 te Offsets (X,Y) [2:0-0-0,0-1-1], [4:0-0-0,0-1-1] ADING (psf) SPACING- 2:0-0 2:0-0 CSI. DEFL. in (loc) V/deft L/d PLATES GRIP L 20:0 Plate Grip DOL 1.15 BC 0.60 Vert(L1) 0.15 6-7.9 >999 240 MT20 244/190 DL 0.0 Lumber DOL 1.15 BC 0.60 Vert(L1) 0.15 6-12 >999 240 MT20 244/190 DL 0.0 Lumber DOL 1.15 BC 0.60 Vert(L1) 0.17 6-9 >999 180 DL 0.0 Code IRC2018/TPI2014 Matrix-AS DEFL. in (loc) Viet(L1) 0.16 Horz(CT) 0.02 2 n/a n/a VBER. PCHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied. BOT CHORD BOT CHORD Rigid ceiling directly applied. BOT CHORD Mat Araz 2=-104(L10) Mat Araz 2=-10					
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 IRC2018/TPI2014	CSI. TC 0.68 BC 0.60 WB 0.16 Matrix-AS	DEFL. ir Vert(LL) 0.15 Vert(CT) -0.17 Horz(CT) 0.02	n (loc) l/defl L/d 6-12 >999 240 6-9 >999 180 2 n/a n/a	PLATES GR MT20 244 Weight: 65 lb	kl P 4/190 FT = 20%
LUMBER- TOP CHORD 25 BOT CHORD 25 WEBS 25 WEDGE Left: 2x4 SP No.3	k4 SP No.2 k4 SP No.2 k4 SP No.3 , Right: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di Rigid ceiling directly applied.	rectly applied.	
REACTIONS. M M M	(size) 2=0-3-8, 4=0-3-8 lax Horz 2=-109(LC 10) lax Uplift 2=-240(LC 12), 4=-240(LC 12) lax Grav 2=720(LC 1), 4=720(LC 1)					
FORCES. (Ib) - TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All forces 250 (lb) o 2-3=-808/561, 3-4=-808/561 2-6=-369/598, 4-6=-369/598 3-6=-354/355	r less except when shown.				
NOTES- 1) Unbalanced roo 2) Wind: ASCE 7-	of live loads have been considered for this de 16: Vult=130mph (3-second oust) Vasd=103	esign. Imph: TCDL=6.0psf: BCDL=€	5.0psf: h=25ft: B=45ft:	L=24ft: eave=4ft: Cat.		

2) Wind: ASCE /-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 17-4-0 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) 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 MiTek 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.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

SEAL 035183

March 25,2022



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Plate Off	sets (X,Y)	[2:0-3-8,Edge]				1					1	
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	0.12	Vert(LL)	-0.01	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.02	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	k-AS						Weight: 18 lb	FT = 20%
	2-					BRACING-						

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* 3-7: 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=100(LC 12) Max Uplift 4=-25(LC 12), 2=-37(LC 12)

Max Grav 4=82(LC 17), 2=251(LC 1), 5=69(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-11-4 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.

- * 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 3) will fit between the bottom chord and any other members.
- 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) 4.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 25,2022



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2-3-8	6-0-0 12-8)	19-3-15	26-1-9		33-1-0	
Plate Offsets (X,Y)	[2:0-0-0,0-0-13], [4:0-4-0,Edge], [5:0-1	-3,Edge], [7:0-5-0,0-4-8], [15:0-3-8,0-2-12]	0-9-11		0-11-7	
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 IRC2018/TPI2014	CSI. TC 0.84 BC 0.91 WB 0.78 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.30 6 >999 -0.60 15-16 >661 0.28 10 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 210 lb	GRIP 244/190 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF 1-5: 2x BOT CHORD 2x4 SF 4-18: 2 WEBS 2x4 SF 13-15; WEDGE Left: 2x4 SP No.3	 No.2 *Except* 4 SP No.1 No.2 *Except* x4 SP No.1, 15-17: 2x4 SP SS, 6-14: No.3 *Except* 3-17: 2x4 SP No.2 	2x4 SP No.3	BRACING- TOP CHOR BOT CHOR WEBS	D Structural wood 2-0-0 oc purlins D Rigid ceiling dir 1 Row at midpt	I sheathing direct : (3-4-9 max.): 5-4 ectly applied. 8-10	ly applied, except c 3.	end verticals, and
REACTIONS. (siz Max H Max U Max G	e) 10=0-3-8, 2=0-3-8 lorz 2=129(LC 12) plift 10=-133(LC 9), 2=-117(LC 12) rav 10=1316(LC 1), 2=1399(LC 1)						
FORCES. (lb) - Max. TOP CHORD 2-3=- 768=- 2-18- BOT CHORD 6-15- WEBS 3-18- 7-13- 5-17-	Comp./Max. Ten All forces 250 (lb) 1894/87, 3-4=-4300/334, 4-5=-4372/4 3030/197 =-136/1443, 17-18=-68/841, 4-17=0/26 =-452/121, 13-14=-16/331, 11-13=-18 =-1222/119, 5-16=0/381, 5-15=-96/17 =-784/143, 8-13=-68/1067, 8-11=0/281 =-216/1516	r less except when showr 00, 5-6=-4084/291, 6-7=-3 4, 16-17=-195/2572, 15-16 /2088, 10-11=-185/2088 6, 13-15=-187/2751, 7-15= .8-10=-2303/209, 3-17=-3	n. 996/289, 6=-199/2556, =-94/1012, 807/3093,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V II; Exp B; Enclosed; 10-2-15, Interior(1) ' & MWFRS for reacti 3) Provide adequate di 4) All plates are MT20 5) This truss has been will fit between the b 7) One RT7A MiTek cc uplift only and does 8) This truss is designer referenced standard 9) This truss design re- sheetrock be applied 10) Graphical purlin re-	a loads have been considered for this (/ult=130mph (3-second gust) Vasd=10 MWFRS (directional) and C-C Exterio 10-2-15 to 32-11-4 zone; cantilever left ons shown; Lumber DOL=1.60 plateg rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord n designed for a live load of 20.0psf or oottom chord and any other members. onnectors recommended to connect tru not consider lateral forces. ed in accordance with the 2018 Interna I ANSI/TPI 1. quires that a minimum of 7/16" structu d directly to the bottom chord. presentation does not depict the size of	esign. 3mph; TCDL=6.0psf; BCD (2E) -1-4-0 to 1-8-0, Interia and right exposed; end vol- ip DOL=1.60 ve load nonconcurrent with the bottom chord in all and ss to bearing walls due to ional Residential Code se al wood sheathing be applar the orientation of the pur	L=6.0psf; h=25ft; B or(1) 1-8-0 to 6-0-0 ertical left exposed; h any other live loa eas where a rectan UPLIFT at jt(s) 10 a ctions R502.11.1 a lied directly to the to lin along the top an	=45ft; L=24ft; eave=4ft Exterior(2R) 6-0-0 to C-C for members and ds. gle 3-6-0 tall by 2-0-0 v and 2. This connection nd R802.10.2 and op chord and 1/2" gyps d/or bottom chord.	; Cat. forces vide is for um	SE 035	AL SLEE March 25,2022
WARNING - Verify Design valid for use o a truss system. Beforn building design. Brac is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES ON THIS A nly with MiTek® connectors. This design is base e use, the building designer must verify the appli- ing indicated is to prevent buckling of individual I stability and to prevent collapse with possible pe elivery, erection and bracing of trusses and truss available from Truss Plate Institute, 2670 Crain H	ID INCLUDED MITEK REFERENC only upon parameters shown, ar ability of design parameters and p uss web and/or chord members o sonal injury and property damage systems, see ANS/TP ghway, Suite 203 Waldorf, MD 21	CE PAGE MII-7473 rev. 5 nd is for an individual bui properly incorporate this only. Additional temporar before general guidance 1 Quality Criteria, DSB- 0601	19/2020 BEFORE USE. Iding component, not design into the overall y and permanent bracing regarding the 89 and BCSI Building Com	ponent	818 Soundside	A MITEK Affiliate



15

5x10 =

Special

45 14 46

Special

3x5

Special

44

Special

13

2x4 ||

Specia

47

Special

48

Special

49

Special

4x5 =

2-3-8	4-0-0	12-8-0		19-6-4			26-2-12		33-1-0	
2-3-8 Plate Offsets (X,Y)-	- [2:0-3-8.Edge], [3:0-2	-0.0-1-8]. [4:0-4-8.	Edge], [5:0-3-0.0-1	6-10-4 1-12]. [17:0-2-8.Edae	1		6-8-8		6-10-4	
Plate Offsets (X,Y)- LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	- 12:0-3-8,Edge], [3:0-2 SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	-0,0-1-8], [4:0-4-8, 2-0-0 - 1.15 1.15 r NO 3/TPI2014	Edgej, [5:0-3-0,0-7 CSI. TC 0.81 BC 0.92 WB 0.94 Matrix-MS	1-12], [17:0-2-8,Edge DEFL. Vert(L) Vert(C) Horz(C)	ir -) -0.45 T) -0.93 T) 0.29	n (loc) 5 17 5 17-18 9 12	l/defl >881 >424 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 358 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 5-8: BOT CHORD 2x4 4-2i WEBS 2x4 15-' WEDGE Left: 2x4 SP No.3	SP No.2 *Except* 2x4 SP No.1 SP No.2 *Except* 0,17-19: 2x4 SP No.1 SP No.3 *Except* 17: 2x4 SP No.2			BRAC TOP C BOT C	NG- Hord	Structu except Rigid c	ural wood end verti ceiling dire	sheathing o cals, and 2- actly applied	directly applied or 3-5-6 d -0-0 oc purlins (3-7-14 m d or 10-0-0 oc bracing.	oc purlins, lax.): 5-11.
REACTIONS. (Ma Ma Ma	size) 12=0-3-8, 2=0-3-4 x Horz 2=102(LC 8) x Uplift 12=-195(LC 5), 2 x Grav 12=1851(LC 1), 2	8 =-180(LC 8) 2=2006(LC 1)								
FORCES. (Ib) - M TOP CHORD 2- 7- BOT CHORD 2- 7- 7-	ax. Comp./Max. Ten Al 3=-2875/190, 3-4=-6391/ 9=-8739/701, 9-10=-578/ 20=-186/2187, 19-20=-11 21=-409/145, 15-16=-60/	l forces 250 (lb) or 512, 4-5=-6859/59 4/486 39/1494, 4-19=-8/3 846, 13-15=-394/3	less except when 96, 5-6=-4575/267, 300, 18-19=-269/44 3963, 12-13=-394/3	shown. , 6-7=-9195/690, 424, 17-18=-588/716 3963	7,					

WEBS 3-20=-1779/166. 5-18=0/1656. 6-18=-2789/343. 6-17=-108/2163. 15-17=-450/5095. 9-17=-201/2930, 9-15=-1259/238, 10-15=-137/1961, 10-13=0/381, 10-12=-4152/411, 3-19=-403/4485, 5-19=-356/2090

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: 2x4 - 1 row 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.

3x5

Special

Special

Special

Special

6x8 = 16

Special

42

Special

3x5 ||

43

Special

20

3x6 =

Special

3x8 |

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 7) will fit between the bottom chord and any other members.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

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March 25,2022



Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
00000000 04	LHODD					T27235551
22020362-01	IIGKK		1	2	Job Reference (optional)	
Carter Components (Lexing	on). Lexington. NC - 2729	95.	. 8	.530 s Deo	6 2021 MiTek Industries. Inc. Thu Mar 24 11:12:52 2022	Page 2

ID:R2Eywbwb09xDUuNDwBLKtWzWU3y-zkaz1e8KbksTCZMxLfYUpz9pBqTZ5yP?X8KdJkzXklv

NOTES-

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 47 lb up at 2-0-12, 68 lb down and 51 lb up at 4-0-0, 77 lb down and 46 lb up at 5-11-4, 77 lb down and 46 lb up at 7-11-4, 77 lb down and 46 lb up at 9-11-4, 68 lb down and 46 lb up at 11-11-4, 77 lb down and 61 lb up at 13-11-4, 77 lb down and 61 lb up at 15-11-4, 77 lb down and 61 lb up at 17-11-4, 77 lb down and 61 lb up at 19-11-4, 86 lb down and 61 lb up at 21-11-4, 86 lb down and 61 lb up at 23-11-4, 86 lb down and 61 lb up at 25-11-4, 80 lb down and 61 lb up at 27-11-4, and 86 lb down and 61 lb up at 29-11-4, and 86 lb down and 61 lb up at 31-11-4 on top chord, and 183 lb down and 37 lb up at 2-1-12, 43 lb down at 4-0-12, 43 lb down at 5-11-4, 43 lb down at 9-11-4, 43 lb down at 9-11-4, 31 lb down at 13-11-4, 31 lb down at 15-11-4, 31 lb down at 29-11-4, and 81 lb down at 23-11-4, 31 lb down at 23-11-4, 31 lb down at 29-11-4, and 31 lb down at 31-11-4, 31 lb down at 27-11-4, 31 lb down at 29-11-4, and 31 lb down at 29-11-4, and 31 lb down at 31-11-4, 31 lb down at 27-11-4, 31 lb down at 29-11-4, and 31 lb down at 29-11-4, and 31 lb down at 31-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-11=-60, 20-21=-20, 17-19=-20, 12-16=-20

Concentrated Loads (lb)

Vert: 5=-21(B) 8=-41(B) 20=-183(B) 18=-43(B) 15=-23(B) 13=-23(B) 10=-41(B) 24=-21(B) 25=-21(B) 26=-21(B) 28=-21(B) 29=-41(B) 30=-41(B) 31=-41(B) 33=-41(B) 33=-41(B) 35=-41(B) 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LDADING (ps): TCL 1, 20.0 DCL 1, 15 BCD 1, 00.0 SPACING- 2,0-0 Rep Spread (pr) DCL 1, 15 BCD 1, 00.0 CSL 15 BCD 1, 10.0 DEFL 16 Code in (nor) Vietal Verticity 1, 16 List SPACING- 2, 44/190 LUMBER- DCD 1, 00.0 Code RC2018/TP1/2014 With 15 BCD 1, 00.0 Structural wood sheathing directly applied, 24.00 Weight: 272 b FT = 20% LUMBER- DCD CHORD 2, 24.5 P No.2 BCD CHORD 2, 24.5 P No.3 Structural wood sheathing directly applied, 1.3: 24.4 SP No.3 Structural wood sheathing directly applied, 1.6: 24.0 weight: 272 b FT = 20% WEBS 24.4 SP No.3 BOT CHORD 2, 24.5 P No.2 Structural wood sheathing directly applied, 1.6: 24.0 weight: 272 b FT = 20% WEBS 24.4 SP No.3 BOT CHORD 2, 24.5 P No.2 Structural wood sheathing directly applied, 1.6: 24.6 P No.3 Structural wood sheathing bit 24.0 P No.3 Structural						
LUMBER- TOP CHORD 2:42 SP No.2 Except 2:43 SP No.1 Exce	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 IRC2018/TPI2014	CSI. TC 0.74 BC 0.96 WB 0.83 Matrix-AS	DEFL. in Vert(LL) -0.56 Vert(CT) -1.14 Horz(CT) 0.25	(loc) l/defl L/d 16-17 >982 240 16-17 >482 180 12 n/a n/a	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 272 lb FT = 20%
 REACTIONS. (size) 12=Mechanical, 2=0-3-8 Max Horz 2=134(LC 11) Max Ograv 12=183(LC 9), 2=-153(LC 12) Max Grav 12=1833(LC 1), 2=1915(LC 1) FORCESS. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-33-3123(19), 8, 3-4=-3796/333, 4-5=-4791/330, 5-7=-5914/398, 7-9=-5914/398, 9-10=-3035/224, 10-11=-3035/224, 11-12=-1766/169 BOT CHORD 2-20=-119/298, 3-4=-3796/333, 4-5=-4791/330, 5-7=-5914/398, 7-9=-5914/398, 9-10=-3035/224, 10-11=-3035/224, 11-12=-1766/169 BOT CHORD 2-20=-119/2658, 4-118=-381/1974, 5-17=0/258, 7-16=-415/112, 9-16=-64/1085, 9-14=-0/259, 9-13=-2173/133, 10-13=-431/197, 11-13=-214/3383 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; b=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-4-0 to 1-8-0, Interior(11) 1-8-0 to 6-0.0; Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 45-10-4 zone; cantilever lett and right pxposed ; 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) Provide andequated drainage to prevent water ponding. 4) All plates are MT20 plates unless otherwise indicated. 5) This truss has been designed for a live load of 20.0ps 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) Refer to girtler(s) for truss to truss connections. 8) Provide mechanical connection. 9) One RT7A MITek connectors recommended to connect truss to bearing valis due to UPLIFT at j(s) 2. This connection is for uplift only and does not consider lateral forces. 9) One RT7A MITek connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 2. This connection is for uplift only and does not consider lateral forces. 9) On	LUMBER- TOP CHORD 2x6 SP 1-3: 2x BOT CHORD 2x4 SP WEBS 2x4 SP 3-19,5- WEDGE Left: 2x4 SP No.3	[•] No.2 *Except* 4 SP No.2 [•] No.1 • No.3 *Except* 19,5-16,9-16,9-13,11-13: 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir 2-0-0 oc purlins (2-7-14 max. Rigid ceiling directly applied. 1 Row at midpt 5	ectly applied, except end verticals, and): 3-11. -19, 9-13
 FORCES. ((b) - Max. Comp./Max. Ten All forces 250 ((b) or less except when shown. TOP CHORD 2-3-3123/198, 3-4-479/330, 4-5-4791/330, 5-7=5914/398, 9-10-305224, 10-11-2-305224, 10-11-2-30524, 11-12-306, 12-215, 11-12-30524, 11-12-306, 12-215, 11-12-306, 12-216, 12-215, 11-12-306, 12-215, 11-12-	REACTIONS. (size Max H Max U Max G) 12=Mechanical, 2=0-3-8 orz 2=134(LC 11) plift 12=-136(LC 9), 2=-153(LC 12) rav 12=1833(LC 1), 2=1915(LC 1) 				
 NoTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0. Interior(1) 1-8-0 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 45-10-4 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) Provide adequate drainage to prevent water ponding. 4) All plates are MT20 plates unless otherwise indicated. 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 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. 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) except (jt=lb) 12=136. 9) One RT7A MiTek 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. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. 11) This truss is design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Contextingerbabeneapolied directly to the bottom chord. 	FORCES. (lb) - Max. TOP CHORD 2-3=- 9-10= BOT CHORD 2-20= 13-1. WEBS 3-19= 9-16=	Comp./Max. 1en All forces 250 (lb) or 3123/198, 3-4=-4796/333, 4-5=-4791/33 3035/224, 10-11=-3035/224, 11-12=-1 -119/2613, 19-20=-122/2610, 17-19=-3 4=-261/4955 146/2558, 4-19=-538/119, 5-19=-1199 64/1085, 9-14=0/259, 9-13=-2173/133	ress except when shown. i0, 5-7=-5914/398, 7-9=-5914/3 766/169 15/5829, 16-17=-315/5829, 14- /74, 5-17=0/258, 7-16=-415/11: , 10-13=-431/197, 11-13=-214/	398, -16=-261/4955, 2, ′3383		
	NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V II; Exp B; Enclosed; 10-2-15, Interior(1) 1 and forces & MWFR 3) Provide adequate dr 4) All plates are MT20 5) This truss has been 6) * This truss has been will fit between the b 7) Refer to girder(s) for 8) Provide mechanical 12=136. 9) One RT7A MiTek co only and does not cc 10) This truss is design referenced standar 11) This truss design ri Contisiueetosylaberapolic	loads have been considered for this de ult=130mph (3-second gust) Vasd=103i MWFRS (directional) and C-C Exterior(0-2-15 to 45-10-4 zone; cantilever left a S for reactions shown; Lumber DOL=1.6 ainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. 'truss to truss connections. connection (by others) of truss to bearir ponnectors recommended to connect trus posider lateral forces. red in accordance with the 2018 Interna d ANSI/TPI 1. equires that a minimum of 7/16" structur ed directly to the bottom chord.	sign. nph; TCDL=6.0psf; BCDL=6.0p 2E) -1-4-0 to 1-8-0, Interior(1) 1 nd right exposed ; end vertical 30 plate grip DOL=1.60 e load nonconcurrent with any he bottom chord in all areas wh g plate capable of withstanding s to bearing walls due to UPLIF tional Residential Code section al wood sheathing be applied c	psf; h=25ft; B=45ft; I-8-0 to 6-0-0, Exter left and right expos other live loads. here a rectangle 3-6 g 100 lb uplift at join FT at jt(s) 2. This con as R502.11.1 and R8 directly to the top cho	L=24ft; eave=6ft; Cat. ior(2R) 6-0-0 to ed;C-C for members 6-0 tall by 2-0-0 wide t(s) except (jt=lb) nnection is for uplift 302.10.2 and ord and 1/2" gypsum	SEAL 035183 MGINEEP

A MiTek Affiliate 818 Soundside Road Edenton, NC 27932

Design valid for use only with MiTek® concectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
						T27235552
22020382-01	H1F	HALF HIP	1	1		
					Job Reference (optional)	
Carter Components (Lexington), Lexington, NC - 27295,		95,	8	.530 s Dec	6 2021 MiTek Industries, Inc. Thu Mar 24 11:12:40 2022	Page 2
		ID:R2Eywbwb)9xDUuND	wBLKtWz\	WU3y-KRrRWY?oQ2LAmjSde8KgJRfnI_M0HY4EmGP_vQ	zXkm5

NOTES-

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

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 **ANS/ITPII 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 C	ameron Woods Lot	23-2100 Elev 'A' Permit-Roof Tru	ISS
22020382-01	H1GR	HALF HIP GIRDER	1	2		D.	T27235553
Carter Components (Le	exington), Lexington, NC - 272	95,		8.530 s Dec 6	2021 MiTek Indust	nal) ries, Inc. Thu Mar 24 11:12:48 20	022 Page 1
1-4-0 4-0-0	9-4-5 14-6-1	4 19-9-7	ID:R2Eywbwb09xD	0-2-9	03y-5zKSBH5pXV	M1jy396qTYe7_FRC7O9CkPcW	MPAzzXkiz
'1-4-0' 4-0-0	5-4-5 5-2-8	5-2-9	5-2-9 5	5-2-9	5-2-9	5-2-9 5-4-5	0 4 4 70 0
							Scale = 1:79.8
Special		Special Special Special	Special Special	Sp	pecial Special Specia	al	
6x8 7.00 12 Spe	= ecial Special Special ^{Special} Spec	4x8 = 4x6 = Special	Special 4x8 =	Special Special 4	x6 = 4x8 =	Special Special Special Special	5x6 =
Special	³ 29 30 31 ⁴ 32 33 34	⁵ 35 36 6 ⁷ 37 ⊠ Φ β	38 39 ⁸ 40	41 9 × ×		45 12 46 47 48	13
28							
49	²⁴ 50 51 ²³ 52 53	3 22 24 55 ²⁰ 56	6 57 58 ¹⁹ 59	60 ¹⁸	17 61 ¹⁶ 62	63 ¹⁵ 64 65 66	14
4x5 =	Special Special 5x10 = Spec	ial Special $8x10 = 4x8 = 3$	Special Special Special	Special 4x8 = 6 Special 6	x8 = Special Specia	al Special 6x12	3x5
Special	Special Special	Special Special Special			Decial		
4-0-0	9-4-5 14-6-1	/ 10-0-7	25-0-0 30	0-2-0	35-5-2	40-7-11 46-0-0	
4-0-0	5-4-5 5-2-9 [3:0-2-12:0-3-0] [15:0-3-0 0-4-4	5-2-9	5-2-9 5	j-2-9	5-2-9	5-2-9 5-4-5	—
	[3.0-2-12,0-3-0], [13.0-3-0,0-4-4		DEEL	in (loc) /d			
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0	0.48 19-20 >9	199 240	MT20 244/19	90
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr NC	5 BC 0.87 WB 0.66	Vert(CT) -0 Horz(CT) 0	5< 0.98 19-20 0.14 14 ا	63 180 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 609 lb FT =	: 20%
LUMBER- TOP CHORD 2x6 SE	2400F 2 0F *Except*		BRACING-	Structural	vood sheathing dir	rectly applied or 5-9-3 oc purlin	s
1-3: 2x	4 SP No.2			except end	verticals, and 2-0	-0 oc purlins (6-0-0 max.): 3-13	l.
14-17:	2x6 SP No.2		BOTCHORD	Rigia cellin	g directly applied t	or 10-0-0 oc bracing.	
WEBS 2x4 SF 3-23,5	-23,5-20,8-20,8-18,11-18,11-15,	13-15: 2x4 SP No.2					
REACTIONS. (siz	e) 14=Mechanical, 2=0-3-8						
Max H Max U	lorz 2=99(LC 27) Jplift 14=-272(LC 5), 2=-328(LC 8	3)					
Max G	Grav 14=2555(LC 1), 2=2783(LC	1)					
FORCES. (lb) - Max.	. Comp./Max. Ten All forces 25	0 (lb) or less except when shown	1.				
10P CHORD 2-3= 8-9=	-4630/480, 3-4=-8002/843, 4-5=- -10926/1115, 9-11=-10926/1115,	11-12=-4945/506, 12-13=-4945	5/506,				
13-14 BOT CHORD 2-24	4=-2462/301 =-433/3943, 23-24=-429/3952, 2	2-23=-1100/10597, 20-22=-1100)/10597,				
19-20 WEBS 3-24:	0=-1236/12042, 18-19=-1236/12 =0/271, 3-23=-455/4475, 4-23=-5	042, 16-18=-870/8513, 15-16=-8 526/189, 5-23=-2866/285, 5-22=	370/8513 0/288,				
5-20 11-1	=-140/1480, 7-20=-410/146, 8-19	=0/278, 8-18=-1231/134, 9-18= 53936/405, 12-15446/189, 1	-432/150,				
NOTES	0=210/2001, 11 10=0/210, 11 1	5= 0000/400, 12 10= 440/100, 1	0 10 - 000/0000				
1) 2-ply truss to be cor	nnected together with 10d (0.131	"x3") nails as follows:				NA CAR	"Au
I op chords connect Bottom chords conn	ted as follows: 2x4 - 1 row at 0-9- nected as follows: 2x6 - 2 rows st	0 oc, 2x6 - 2 rows staggered at aggered at aggered at 0-9-0 oc.	0-9-0 oc.			ARAL	Hale
Webs connected as 2) All loads are conside	s follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, e	except if noted as front (F) or bac	ck (B) face in the LOA	D CASE(S) sect	tion. Ply to	- Thomas	1.4
ply connections hav 3) Unbalanced roof live	e been provided to distribute only	y loads noted as (F) or (B), unles	ss otherwise indicated	d.			
4) Wind: ASCE 7-16; \	/ult=130mph (3-second gust) Va	sd=103mph; TCDL=6.0psf; BCD	L=6.0psf; h=25ft; B=4	45ft; L=24ft; eave	e=6ft; Cat.	035183	
DOL=1.60		ion and ngin exposed , end ven	LUII	υυμ	naro grip	1	
 6) All plates are 2x4 M 	IT20 unless otherwise indicated.					II NOWEE	2.1 3
7) This truss has been8) * This truss has bee	designed for a 10.0 psf bottom of designed for a live load of 20.0	hord live load nonconcurrent wit psf on the bottom chord in all ar	th any other live loads eas where a rectangle	s. e 3-6-0 tall by 2-(0-0 wide	The ULLING	ELIN
will fit between the b 9) Refer to girder(s) for	bottom chord and any other mem r truss to truss connections.	bers.		-		Million V	
10) Provide mechanica	al connection (by others) of truss	to bearing plate capable of with	standing 100 lb uplift a	at joint(s) except	(jt=lb)	Ν	/larch 25,2022
Design valid for use o a truss system Reform	oresign parameters and READ NOTES ON only with MiTek® connectors. This design to use, the building designer must verify the	is based only upon parameters shown, and e applicability of design parameters and up	nd is for an individual buildir	ng component, not sign into the overall			
building design. Brac	cing indicated is to prevent buckling of indi	vidual truss web and/or chord members of	only. Additional temporary a	and permanent bracir	ng	A MiTel	Affiliate

billioning design. Bildoning individual to be prevent outbaining of individual to be version and the prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
					T2	27235553
22020382-01	H1GR	HALF HIP GIRDER	1	2		
				2	Job Reference (optional)	
Carter Components (Lexingto	on), Lexington, NC - 2729	95,	8	.530 s Dec	6 2021 MiTek Industries, Inc. Thu Mar 24 11:12:48 2022 P	age 2
		ID:R2Eywbwb	09xDUuN	DwBLKtW	zWU3y-5zKSBH5pXVM1jy396qTYe7 FRC7O9CkPcWMPAz	zXklz

NOTES-

11) One RT7A MiTek 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.

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 47 lb up at 2-0-12, 77 lb down and 65 lb up at 4-0-0, 78 lb down and 64 lb up at 4-3-12, 86 lb down and 61 lb up at 6-2-4, 86 lb down and 61 lb up at 8-2-4, 86 lb down and 61 lb up at 10-2-4, 77 lb down and 61 lb up at 12-2-4, 77 lb down and 61 lb up at 14-2-4, 77 lb down and 61 lb up at 12-2-4, 77 lb down and 61 lb up at 14-2-4, 77 lb down and 61 lb up at 12-2-4, 77 lb down and 61 lb up at 12-2-4, 77 lb down and 61 lb up at 12-2-4, 77 lb down and 61 lb up at 20-2-4, 77 lb down and 61 lb up at 20-2-4, 77 lb down and 61 lb up at 20-2-4, 77 lb down and 61 lb up at 20-2-4, 77 lb down and 61 lb up at 20-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 77 lb down and 61 lb up at 30-2-4, 71 lb down and 61 lb up at 30-2-4, 81 lb down and 61 lb up at 30-2-4, 81 lb down and 61 lb up at 30-2-4, 81 lb down and 61 lb up at 40-2-4, and 86 lb down and 61 lb up at 40-2-4, and 183 lb down at 13-2-4, 31 lb down at 40-2-4, 31 lb down at 10-2-4, 31 lb down at 20-2-4, 31 lb down at 30-2-4, 31 lb down at 3

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-13=-60, 14-25=-20

Concentrated Loads (lb)

 $\begin{array}{l} \mathsf{Vert: } 3=-41(F) \ 6=-41(F) \ 21=-23(F) \ 24=-47(F) \ 9=-41(F) \ 18=-23(F) \ 10=-41(F) \ 17=-23(F) \ 29=-41(F) \ 30=-41(F) \ 31=-41(F) \ 32=-41(F) \ 34=-41(F) \ 35=-41(F) \ 36=-41(F) \ 37=-41(F) \ 38=-41(F) \ 39=-41(F) \ 39=-41(F) \ 49=-183(F) \ 50=-23(F) \ 51=-23(F) \ 52=-23(F) \ 52$

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			16-2-11	
			16-2-11	
Plate Offsets (X,Y)	[3:0-2-8,Edge]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.25 BC 0.15 WB 0.05 Matrix S	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 8 n/a n/a	PLATES GRIP MT20 244/190
3CDL 10.0	Code IRC2018/1P12014	Matrix-S		Weight: 53 lb $FT = 20\%$
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	P No.2 P No.2		BRACING- TOP CHORD Structural wood sheathing dir except end verticals, and 2-0-	ectly applied or 6-0-0 oc purlins, 0 oc purlins (6-0-0 max.): 3-7.

BOT CHORD

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

BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. All bearings 16-2-4.

(lb) - Max Horz 1=46(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 10, 9, 11 except 1=-203(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 2=434(LC 1), 10=323(LC 24), 9=274(LC 24), 11=347(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-11=-252/101

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-11 to 3-0-3, Exterior(2R) 3-0-3 to 7-3-2, Interior(1) 7-3-2 to 16-0-15 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=203.
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) 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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l			20-0-0		
Plate Offsets (X,Y)	[4:0-2-8,Edge], [6:0-2-8,Edge]		2000		
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 IRC2018/TPI2014	CSI. TC 0.35 BC 0.21 WB 0.07 Matrix-S	DEFL. ii Vert(LL) n/: Vert(CT) n/: Horz(CT) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999) 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 74 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	P No.2		BRACING- TOP CHORD	Structural wood sheath	ng directly applied or 6-0-0 oc purlins, except

 BOT CHORD
 2x4 SP No.2
 2-0-0 oc purlins (6-0-0 max.): 4-6.

 OTHERS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 REACTIONS.
 All bearings 20-0-0.
 All bearings 20-0-0.
 All bearings 20-0-0.

(lb) - Max Horz 1=-78(LC 10)

Max Uplif All uplift 100 lb or less at joint(s) 2, 12, 13, 10, 8 except 1=-312(LC 17), 9=-282(LC 18) Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=554(LC 23), 12=279(LC 24), 13=385(LC 1),

10=385(LC 1), 8=554(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-13=-279/125, 7-10=-279/124

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 7-1-11, Exterior(2R) 7-1-11 to 11-4-10, Interior(1) 11-4-10 to 12-10-4, Exterior(2R) 12-10-4 to 17-1-3, Interior(1) 17-1-3 to 19-8-8 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.

Provide adequate drainage to prevent water ponding.

5) Gable requires continuous bottom chord bearing.

- 6) Gable studs spaced at 4-0-0 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=312, 9=282.

10) N/A

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

13) 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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			20-0-0		
I			20-0-0		
Plate Offsets (X,Y)	[3:0-2-8,Edge], [7:0-2-8,Edge]				
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 IRC2018/TPI2014	CSI. TC 0.32 BC 0.21 WB 0.05 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 9 n/a n/a	PLATES GRIP MT20 244/190 Weight: 69 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF OTHERS 2x4 SF	> No.2 > No.2 > No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire 2-0-0 oc purlins (6-0-0 max.): : Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, except 3-7. r 10-0-0 oc bracing.

OTHERS 2x4 SP No.3

REACTIONS. All bearings 20-0-0. Max Horz 1=-55(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 10 except 1=-275(LC 17), 9=-258(LC 24), 2=-104(LC 12), 8=-104(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=558(LC 17), 12=311(LC 23), 13=350(LC 23), 10=350(LC 24), 8=548(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-1-11, Exterior(2R) 5-1-11 to 9-4-10, Interior(1) 9-4-10 to 14-10-4, Exterior(2R) 14-10-4 to 19-2-7, Interior(1) 19-2-7 to 19-8-8 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.

Provide adequate drainage to prevent water ponding.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 4-0-0 oc.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 8) 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) except (jt=lb) 1=275. 9=258.

10) N/A

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

13) 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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						20-0-0						
1						20-0-0						
Plate Of	fsets (X,Y)	[3:0-2-8,Edge], [7:0-2-8,	Edge]									
LOADIN TCLL TCDL BCLL	IG (psf) 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.19 0.20 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a	(loc) - - 9	l/defl n/a n/a	L/d 999 999 p/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S		0.01	0	n/a	n/a	Weight: 63 lb	FT = 20%
LUMBE TOP CH BOT CH	R- IORD 2x4 S IORD 2x4 S	P No.2 P No.2				BRACING- TOP CHOR	D	Structu 2-0-0 o	ral wood c purlins	sheathing dir (6-0-0 max.):	ectly applied or 6-0-0 3-7.	oc purlins, except

20.0.0

OTHERS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. All bearings 20-0-0.

Max Horz 1=-32(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 13, 10, 8 except 1=-145(LC 23), 9=-145(LC 24) Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=425(LC 23), 11=308(LC 23), 13=347(LC 23), 10=347(LC 24), 8=425(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-261/73, 7-8=-261/77

TOP CHORD

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-1-11, Exterior(2R) 3-1-11 to 7-4-10, Interior(1) 7-4-10 to 16-10-4, Exterior(2E) 16-10-4 to 19-8-8 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) Provide adequate drainage to prevent water ponding.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 4-0-0 oc.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 8) 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) except (jt=lb) 1=145, 9=145.

10) N/A

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

13) 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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			11-11-9				
Plate Offsets (X,Y)	[2:0-4-0,0-1-11]		11-11-9				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr VES	CSI. TC 0.26 BC 0.15 WB 0.06	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	n (loc) l/defl a - n/a a - n/a 0 5 n/a	L/d 999 999 p/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		0 0 1/4	n/a	Weight: 41 lb	FT = 20%
LUMBER- TOP CHORD 2x4 S	P No.2		BRACING- TOP CHORD	Structural woo	d sheathing di	rectly applied or 6-0-0	oc purlins,

VEBS DTHERS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-2.

(lb) - Max Horz 1=53(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=271(LC 1), 6=392(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-297/128

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-4-0, Exterior(2R) 3-4-0 to 7-6-1, Interior(1) 7-6-1 to 11-9-13 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) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

6) * 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.

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

 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



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⁸⁾ N/A



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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 13-11-2.

Max Horz 1=135(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 8, 9, 7

All reactions 250 lb or less at joint(s) 1, 6 except 8=395(LC 17), 9=371(LC 17), 7=380(LC 26) Max Grav

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-4-0, Exterior(2R) 7-4-0 to 11-6-15, Interior(1) 11-6-15 to 13-9-13 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) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6)

will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) N/A

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

TOP CHORD 1-2=-354/258, 2-3=-299/226

WEBS 5-10=-264/124

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 15-4-0, Exterior(2E) 15-4-0 to 17-9-13 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) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 8) N/A

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



March 25,2022

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3) Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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, with BCDL = 10.0psf.

8) N/A

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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March 25,2022



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1	2-0-0	1
Г	2-0-0	1

1 1010 01	0010 (71,17)	[2.0 0 0,2090]		
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 0.12	Vert(LL) -0.00 7 >999 240 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 7 >999 180
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 10 lb FT = 20%
LUMBE	२-			BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

Plate Offsets (X Y)-- [2:0-3-8 Edge]

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

Max Horz 2=67(LC 12) Max Uplift 3=-12(LC 12), 2=-50(LC 12) Max Grav 3=39(LC 17), 2=186(LC 1), 4=31(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 1-11-14 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

March 25,2022

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			1		2-0-0		1			4-0-0	1			
			Г		2-0-0		1			2-0-0	1			
Plate Offse	ets (X,Y)	[2:0-0-0,0-1-5]												
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATE	s	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.04	6	>999	240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.09	6	>512	180				

Horz(CT)

0.06

L	u	м	R	F	R	-	

Р

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

0.0

10.0

BRACING-TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-4. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

n/a

n/a

"Special" indicates special hanger(s) or other connection device(s) required at location(s)shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

Weight: 17 lb

FT = 20%

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=68(LC 8) Max Uplift 4=-25(LC 4), 2=-59(LC 8), 5=-17(LC 5) Max Grav 4=58(LC 1), 2=359(LC 1), 5=203(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WFBS 3-6=-277/65

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.06

Matrix-MP

- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- * 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 5) 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) 4, 5.
- 8) One RT7A MiTek 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
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 26 lb up at 2-0-0 on top chord, and 78 lb down and 13 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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, 3-4=-60, 5-7=-20

Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® 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 <u>ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component</u> Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
						T27235564
22020382-01	J1A	JACK-OPEN GIRDER	2	1		
					Job Reference (optional)	
Carter Components (Lexingt	on), Lexington, NC - 272	95,	8	.530 s Dec	c 6 2021 MiTek Industries, Inc. Thu Mar 24 11:13:07 2022	Page 2

ID:R2Eywbwb09xDUuNDwBLKtWzWU3y-1d_eAmKk3LlKVt0pjJJ0v7HXCtc16ysCzzSwLMzXklg

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 3=-150(F) 6=-75(F)

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		1	4-0-0	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 4-7 >999 240	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-AS	Vert(CT) -0.02 4-7 >999 180 Horz(CT) 0.00 3 n/a n/a	Weight: 16 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

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

Max Horz 2=100(LC 12) Max Uplift 3=-40(LC 12), 2=-37(LC 12) Max Grav 3=102(LC 17), 2=251(LC 1), 4=71(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-11-4 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 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 25,2022



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REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=-132(LC 10) Max Grav 1=1103(LC 17), 5=1179(LC 18)

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

TOP CHORD 1-2=-1920/0, 2-3=-1768/0, 3-4=-1756/0, 4-5=-1906/0

BOT CHORD 1-9=0/1720, 7-9=0/1010, 5-7=0/1605

WEBS 3-7=0/856, 4-7=-289/174, 3-9=0/871, 2-9=-294/175

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 22-0-0 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) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.

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, with BCDL = 10.0psf.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Provide adequate drainage to prevent water ponding.

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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



March 25,2022

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	L			20-8-0					
				20-8-0					1
Plate Offsets ()	X,Y)	[2:0-3-8,Edge], [6:0-2-8,0-2-1], [10:0-	2-8,0-2-1], [14:0-3-8,Edge]						
LOADING (psi TCLL 20.1 TCDL 10.1 BCLL 0. BCDL 10.1	f) 0 0 0 * 0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.12 BC 0.04 WB 0.05 Matrix-S	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.01 Horz(CT) 0.00	n (loc) 15 15 15 14	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 113 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD OTHERS	2x4 SF 2x4 SF 2x4 SF	P No.2 P No.2 P No.3		BRACING- TOP CHORD BOT CHORD	Structur 2-0-0 oc Rigid ce	al wood sh purlins (6 iling direct	eathing direc -0-0 max.): 6- ly applied or 1	tly applied or 6-0-0 o 10. 10-0-0 oc bracing.	oc purlins, except

2x4 SP No.3 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. All bearings 20-8-0.

Max Horz 2=101(LC 11) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 22, 24, 25, 19, 17, 16, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 22, 23, 24, 25, 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 7-4-1, Corner(3R) 7-4-1 to 10-4-0, Exterior(2N) 10-4-0 to 13-3-15, Corner(3R) 13-3-15 to 16-4-0, Exterior(2N) 16-4-0 to 22-0-0 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.

Provide adequate drainage to prevent water ponding.

5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable requires continuous bottom chord bearing.

7) Gable studs spaced at 2-0-0 oc.

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

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

10) N/A

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



March 25,2022



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Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
						T27235569
22020382-01	T3GR	Common Girder	1	2		
				_	Job Reference (optional)	
Carter Components (Lexingt	on), Lexington, NC - 272	95,	6	8.530 s Deo	6 2021 MiTek Industries, Inc. Thu Mar 24 11:13:30 2022	Page 2

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LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-60, 3-4=-60, 6-9=-20

Concentrated Loads (lb) Vert: 5=-1813(B) 12=-2535(B) 13=-1813(B) 14=-1813(B)

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6-1-0 12-2-0 6-1-0 6-1-0 LOADING (psf) SPACING-CSI. DEFL. L/d PLATES GRIP 2-0-0 in (loc) l/defl 20.0 Vert(LL) -0.03 240 244/190 TCLL Plate Grip DOL 1.15 TC 0.39 5-8 >999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.06 5-8 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) 0.01 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 48 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 4=0-3-8, 2=0-3-8 Max Horz 2=82(LC 11) Max Uplift 4=-27(LC 12), 2=-74(LC 12) Max Grav 4=482(LC 1), 2=571(LC 1)

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

2-3=-607/124, 3-4=-605/123 TOP CHORD

BOT CHORD 2-5=-24/447. 4-5=-24/447

WEBS 3-5=0/267

NOTES

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0. Interior(1) 1-8-0 to 6-1-0, Exterior(2R) 6-1-0 to 9-1-0, Interior(1) 9-1-0 to 12-2-0 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

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 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Plate Offsets (X	,Y)	[2:0-3-8,Edge], [8:0-3-8,E	dge]										
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0)	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrix	0.12 0.04 0.03 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 9 9 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 62 lb	GRIP 244/190 FT = 20%	
LUMBER- TOP CHORD	2x4 SP	No.2				BRACING- TOP CHOF	D	Structu	ral wood	sheathing d	irectly applied or 6-0-0	oc purlins.	

BOT CHORD

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

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

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

Max Horz 2=-86(LC 10) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 6-1-0, Corner(3R) 6-1-0 to 9-1-0, Exterior(2N) 9-1-0 to 13-6-0 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 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.

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) N/A

- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1



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REACTIONS. All bearings 12-2-0.



8-	4-3 16-6-8 4-3 8-2-5	6-6-13	29-4-6 32-9-8 33	1-0 36-10-4	46-10-4	52-0-0	<u>}</u>
Plate Offsets (X,Y)	[1:0-5-0,Edge], [4:0-6-0,0-4-0], [8:0-5-4,	0-3-0], [9:0-5-0,0-4-8], [1:	3:0-5-8,0-3-8], [14:0-5-0	,0-4-8], [15:0-2-7,0	0-5-6], [15:0-5-4	,0-3-8], [17:0-5-4,0-2	2-8]
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 IRC2018/TPI2014	CSI. TC 0.59 BC 0.99 WB 0.92 Matrix-AS	DEFL. i Vert(LL) -0.38 Vert(CT) -0.72 Horz(CT) 0.40	n (loc) l/defl 3 17-19 >999 2 17-19 >783 0 13 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 396 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF 17-18: WEBS 2x4 SF 4-17,8 OTHERS 2x4 SF REACTIONS. (siz	 No.2 No.2 *Except* 2x6 SP 2400F 2.0E, 20-21,15-21: 2x4 S No.3 *Except* 15: 2x4 SP No.2 No.3 e) 11=0-3-0, 1=0-3-8, 13=0-3-8 	P No.3	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	sheathing direc (4-2-4 max.): 4- ectly applied. 2-1	xtly applied, except -8. 7, 4-16, 8-14, 9-13, 7	7-15
Max L Max U Max G	lorz 1=-199(LC 10) Jplift 11=-1017(LC 17), 1=-110(LC 12), 1 Grav 1=1962(LC 17), 13=3577(LC 2)	3=-208(LC 12)					
FORCES. (ib) - Max. TOP CHORD 1-2=: 8-9=: 8-9: BOT CHORD 1-19: 14-1! WEBS 2-19: 8-15: 7-15: 7-15:	Comp./Max. 1en All forces 250 (lb) or -6233/329, 2-4=-4892/230, 4-5=-3039/26 -1687/197, 9-10=0/2214, 10-11=-74/229 =-208/5690, 17-19=-210/5709, 16-17=0/ 5=0/1371, 13-14=-52/260 =0/298, 2-17=-1221/234, 4-17=0/3055, 4 =-81/1287, 8-14=-620/91, 9-14=0/1617, =-1402/121	less except when shown 50, 5-7=-3039/260, 7-8=-2 1 4231, 15-16=0/2300, 11- -16=-1391/0, 5-16=-382/ 9-13=-3546/170, 10-13=-	n. 2134/261, 13=-1881/132, /95, 7-16=-1/1398, -359/109,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ II; Exp B; Enclosed; 21-1-3, Interior(1) 2 exposed ; end vertio Lumber DOL=1.60 g 3) Provide adequate d 4) This truss has been will fit between the t 6) Bearing at joint(s) 1 capacity of bearing 1 7) Provide mechanical 11=1017. 8) One RT7A MiTek cc uplift only and does 9) This truss is designer referenced standard	e loads have been considered for this de /ult=130mph (3-second gust) Vasd=103/ MWFRS (directional) and C-C Exterior(1-1-3 to 36-10-4, Exterior(2R) 36-10-4 to cal left and right exposed; porch right exp olate grip DOL=1.60 rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv in designed for a live load of 20.0psf on 1 bottom chord and any other members, w , 13 considers parallel to grain value usin surface. connection (by others) of truss to bearin ponnectors recommended to connect trus not consider lateral forces. ed in accordance with the 2018 Internation ANSI/TPI 1.	sign. mph; TCDL=6.0psf; BCDJ 2E) 0-0-0 to 3-0-0, Interio 41-1-3, Interior(1) 41-1-5 bosed;C-C for members a e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. ng ANSI/TPI 1 angle to gr g plate capable of withsta s to bearing walls due to bonal Residential Code sec	L=6.0psf; h=25ft; B=45ft r(1) 3-0-0 to 16-10-5, Ex 3 to 53-4-0 zone; cantiler and forces & MWFRS for h any other live loads. eas where a rectangle 3- rain formula. Building de anding 100 lb uplift at joi UPLIFT at jt(s) 1 and 13 ctions R502.11.1 and R8	; L=24ft; eave=6ft; terior(2R) 16-10-5 ver left and right reactions shown; -6-0 tall by 2-0-0 w esigner should veri int(s) except (jt=lb) . This connection i 802.10.2 and	r Cat. 5 to ride ify	SE 035 SE 035	EAL 5183 NEER. NEER. March 25,2022
WARNING - Verify Design valid for use o a truss system. Befor building design. Brac is always required for	design parameters and READ NOTES ON THIS AND nly with MITek® connectors. This design is based use, the building designer must verify the application ing indicated is to prevent buckling of individual true stability and to prevent ouldnase with prescribe parse	D INCLUDED MITEK REFERENCE only upon parameters shown, ar illity of design parameters and p ss web and/or chord members o paal injury and property demace	CE PAGE MII-7473 rev. 5/19/20: nd is for an individual building o properly incorporate this design nily. Additional temporary and Eor general guidance record	20 BEFORE USE. component, not into the overall permanent bracing time the			ERING BY

818 Soundside Road Edenton, NC 27932

a duss system. Beione use, the bounding designer must verify the applicationity of design parameters and property incorporate runs design into intervent bracing 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	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss
					T27235572
22020382-01	T1	PIGGYBACK BASE	1	1	
					Job Reference (optional)
Carter Components (Lexingt	on), Lexington, NC - 2729	95,	8	.530 s Dec	6 2021 MiTek Industries, Inc. Thu Mar 24 11:13:20 2022 Page 2
		ID:R2Ey	wbwb09xD	UuNDwBL	KtWzWU3y-97GZvDUu?KOUZtVJ_Y23xtJec60xfcc7zV66J6zXkIT

NOTES-

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) 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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BOT CHORD

WEBS

2-0-0 oc purlins (4-8-2 max.): 4-8.

8-9, 2-12, 5-12, 5-10, 7-9

Rigid ceiling directly applied.

1 Row at midpt

 LUMBER

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3 *Except*

WEBS 2x4 SP No.3 *Except* 5-12,7-9: 2x4 SP No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS.	(size)	1=0-3-8, 9=0-3-8
	Max Horz	1=266(LC 12)
	Max Uplift	1=-41(LC 12), 9=-147(LC 9)
	Max Grav	1=1523(LC 17), 9=1556(LC 17

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

TOP CHORD 1-2=-2393/91, 2-4=-1707/115, 4-5=-1393/140, 5-7=-1063/74

BOT CHORD 1-14=-261/2040, 12-14=-261/2040, 10-12=-126/1282, 9-10=-75/675

WEBS 2-14=0/312, 2-12=-753/144, 4-12=0/494, 5-10=-588/139, 7-10=-18/1038, 7-9=-1474/173

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 32-11-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) 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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	2-3-8 7-5-3	12-8-0 14-0-0	23-4-12	33-1-0	
	2-3-8 5-1-11	5-2-13 '1-4-0'	9-4-12	9-8-4	1
Plate Offsets (X,Y)	[2:0-0-15,0-1-8], [3:0-2-8,0-2-0], [4:0-3	12,Edge], [5:0-4-12,0-1-8]	, [7:0-4-0,0-1-11], [11:Edge,0-1-8],	[14:0-3-13,0-0-0], [17:0-2-8,	0-2-12]
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 IRC2018/TPI2014	CSI. TC 0.79 BC 0.98 WB 0.90 Matrix-AS	DEFL. in (loc) Vert(LL) -0.36 12-13 Vert(CT) -0.61 13-15 Horz(CT) 0.29 12	l/defi L/d F >999 240 N >652 180 n/a n/a	PLATES GRIP /IT20 244/190 Veight: 228 lb ET = 20%
DODE 10.0		Matrix / to			
LUMBER- TOP CHORD 2x4 SI 1-6: 2: BOT CHORD 2x4 SI 2-20,1 WEBS 2x4 SI 3-19: 2 WEDGE Left: 2x4 SP No.3	P No.2 *Except* 4 SP SS P No.1 *Except* 4-16: 2x4 SP No.2, 16-21: 2x4 SP No.3 P No.3 *Except* x4 SP No.2		BRACING- TOP CHORD Structura 2-0-0 oc BOT CHORD Rigid cei WEBS 1 Row at	al wood sheathing directly ap purlins (4-3-11 max.): 7-11. ling directly applied. r midpt 11-12, 8-	plied, except end verticals, and 13, 10-12, 5-17
REACTIONS. (siz Max H Max L Max C	e) 12=0-3-8, 2=0-3-8 lorz 2=299(LC 11) lplift 12=-155(LC 9), 2=-109(LC 12) irav 12=1520(LC 17), 2=1581(LC 17)				
FORCES. (lb) - Max TOP CHORD 2-3= 8-10 BOT CHORD 2-20 WEBS 3-20 3-19 5-19	Comp./Max. Ten All forces 250 (lb) c -2131/68, 3-4=-4987/228, 4-5=-5327/30 =-1265/141 =-229/1706, 19-20=-116/792, 18-19=-2 =-1271/200, 7-17=0/702, 8-13=-622/12 =-400/3656, 13-17=-188/1485, 8-17=-9 =-278/2432	r less except when shown 7, 5-7=-2063/165, 7-8=-16 55/2683, 17-18=-255/2683 I, 10-13=0/937, 10-12=-15 3/286, 5-18=0/347, 5-17=-	85/177, , 12-13=-165/933 09/181, 1060/120,		
 NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; II; Exp B; Enclosed 18-2-15, Interior(1) and forces & MWFF 3) Provide adequate of 4) This truss has beer 5) * This truss has beer will fit between the I 6) One RT7A MiTek c uplift only and does 7) This truss is design referenced standard 8) This truss design re sheetrock be applie 9) Graphical purlin rep 	e loads have been considered for this d /ult=130mph (3-second gust) Vasd=103 MWFRS (directional) and C-C Exterior 18-2-15 to 32-11-4 zone; cantilever left 2S for reactions shown; Lumber DOL=1 rainage to prevent water ponding. designed for a 10.0 psf bottom chord li n designed for a live load of 20.0psf on bottom chord and any other members, v onnectors recommended to connect true not consider lateral forces. ed in accordance with the 2018 Internat I ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or the	esign. Proph; TCDL=6.0psf; BCDI (2E) -1-4-0 to 1-8-0, Interic and right exposed ; end ve 60 plate grip DOL=1.60 ve load nonconcurrent with the bottom chord in all are vith BCDL = 10.0psf. is to bearing walls due to to ional Residential Code sec al wood sheathing be appli he orientation of the purlin	L=6.0psf; h=25ft; B=45ft; L=24ft; ea r(1) 1-8-0 to 14-0-0, Exterior(2R) 1 rtical left and right exposed;C-C fo any other live loads. as where a rectangle 3-6-0 tall by JPLIFT at jt(s) 12 and 2. This conn ations R502.11.1 and R802.10.2 ar ed directly to the top chord and 1/2 along the top and/or bottom chord	ave=4ft; Cat. 4-0-0 to r members 2-0-0 wide ection is for ad " gypsum	SEAL 035183 WGINEER. March 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPT (Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



2-3-8	3-0-11 4-7-13	2-8-0	6-7-15	6-9-11		6-11-7	
Plate Offsets (X,Y)	[2:0-0-15,0-1-8], [4:0-4-0,Edge], [5:0-2-	12,0-1-12], [17:0-9-4,Edge]				
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 IRC2018/TPI2014	CSI. TC 0.87 BC 0.99 WB 0.80 Matrix-AS	DEFL. in Vert(LL) -0.32 Vert(CT) -0.58 Horz(CT) 0.25	(loc) l/defl 16 >999 16 >682 12 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 211 lb	GRIP 244/190 187/143 FT = 20%
LUMBER- TOP CHORD 2x4 SF 1-6: 2x BOT CHORD 2x4 SF 4-21,1' WEBS 2x4 SF 3-20: 2 WEDGE Left: 2x4 SP No.3	P No.2 *Except* 4 SP No.1 P No.2 *Except* 7-20,12-14: 2x4 SP SS P No.3 *Except* 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	sheathing directl (3-0-5 max.): 6-1 actly applied. 10-12	y applied, except e 1. 2	end verticals, and
REACTIONS. (size Max H Max U Max G	e) 12=0-3-8, 2=0-3-8 lorz 2=218(LC 11) lplift 12=-146(LC 9), 2=-120(LC 12) irav 12=1499(LC 17), 2=1580(LC 17)						
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- BOT CHORD 2-21: 15-11 WEBS 3-21: 10-13 5-20:	Comp./Max. Ten All forces 250 (lb) or -2133/86, 3-4=-4844/236, 4-5=-5255/28 -2304/192, 8-10=-2047/182 =-189/1682, 20-21=-90/719, 19-20=-263 6=0/557, 13-15=-168/1454, 12-13=-168/ =-1157/160, 15-17=-175/1578, 8-17=-10 3=0/379, 10-12=-1872/158, 3-20=-326/3 =-193/2037	less except when shown. 5, 5-6=-2633/184, 6-7=-22 /2994, 18-19=-263/2994, 1 1454 1/309, 8-15=-579/123, 10- 448, 6-18=-16/911, 5-18=-	34/184, 17-18=-167/2266, -15=-47/837, -790/142,				
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; Vil; Exp B; Enclosed; 14-2-15, Interior(1) and forces & MWFR 3) Provide adequate di 4) All plates are MT20 5) This truss has been 6) * This truss has been will fit between the b 7) One RT7A MiTek couplift only and does 8) This truss is designer referenced standard 9) This truss design resheetrock be applied 10) Graphical purlin restance 	e loads have been considered for this de /ult=130mph (3-second gust) Vasd=103 MWFRS (directional) and C-C Exterior(14-2-15 to 32-11-4 zone; cantilever left a S for reactions shown; Lumber DOL=1. rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on bottom chord and any other members, w onnectors recommended to connect trus not consider lateral forces. ed in accordance with the 2018 Internati I ANSI/TPI 1. quires that a minimum of 7/16" structural d directly to the bottom chord. presentation does not depict the size or	asign. mph; TCDL=6.0psf; BCDL 2E) -1-4-0 to 1-8-0, Interior and right exposed ; end ver 60 plate grip DOL=1.60 re load nonconcurrent with the bottom chord in all area ith BCDL = 10.0psf. s to bearing walls due to U onal Residential Code sect I wood sheathing be applie the orientation of the purlin	=6.0psf; h=25ft; B=45ft; r(1) 1-8-0 to 10-0-0, Externical left and right expose any other live loads. as where a rectangle 3-6 JPLIFT at jt(s) 12 and 2. tions R502.11.1 and R80 ad directly to the top cho n along the top and/or bo	L=24ft; eave=4ft; erior(2R) 10-0-0 t ed;C-C for memb 6-0 tall by 2-0-0 w This connection i 02.10.2 and rd and 1/2" gypsu pttom chord.	Cat. pers ide s for	SE O35	AL 5183 NEER. March 25,202
WARNING - Verify Design valid for use o a truss system. Befor building design. Brac is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES ON THIS AN nly with MiTek® connectors. This design is based to use, the building designer must verify the applica ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers elivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENCE only upon parameters shown, and bility of design parameters and pro ss web and/or chord members on onal injury and property damage ystems, see ANS/TP11 hway, Suite 203 Waldorf, MD 206	E PAGE MII-7473 rev. 5/19/2020 I is for an individual building cor operly incorporate this design in Iy. Additional temporary and pr For general guidance regardin Quality Criteria, DSB-89 and 501	BEFORE USE. mponent, not nto the overall ermanent bracing ig the BCSI Building Comp	ponent	818 Soundside Edenton, NC 2	A Mi Tek Affiliate



12

3x5 =

11

2x4 ||

3x5 =

13

5x8 =

2x4 ||

14

3x5 ||

18

3x6 =

4x5 =

_ 2-3-8	8-0-0	12-8-0	19-3-15	26-1-9	33-1-0
2-3-8	5-8-8	4-8-0	6-7-15	6-9-11	6-11-7
Plate Offsets (X,Y)	[2:0-0-0,0-0-13], [4:0-4-0,Edg	e], [5:0-1-3,Edge], [7:0	-5-0,0-4-8], [13:0-2-12,0-1-12]	[15:0-2-12,0-3-4]	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2- Plate Grip DOL 1 Lumber DOL 1 Rep Stress Incr Y Code IRC2018/TPI207	0-0 CSI. .15 TC .15 BC ES WB 14 Matrix	DEFL. 0.81 Vert(LL) 0.95 Vert(CT) 0.87 Horz(CT) x-AS Horz(CT)	in (loc) I/defl L/d -0.26 16-17 >999 240 -0.53 16-17 >739 180 0.30 10 n/a n/a	PLATES GRIP MT20 244/190 MT18HS 244/190 Weight: 222 lb FT = 20%
LUMBER- TOP CHORD 2x6 SF 1-5: 2x BOT CHORD 2x4 SF 2-18,12 WEBS 2x4 SF 3-17: 2 WEDGE Left: 2x4 SP No.3	P No.2 *Except* 44 SP SS P No.1 *Except* 2-14: 2x4 SP No.2, 6-14: 2x4 \$ No.3 *Except* 2x4 SP No.2	SP No.3	BRACING TOP CHO BOT CHO WEBS	RD Structural wood sheathing 2-0-0 oc purlins (4-2-4 ma: RD Rigid ceiling directly applie 1 Row at midpt	directly applied, except end verticals, and x.): 5-9. d. 8-10
REACTIONS. (siz Max H Max U Max G	e) 10=0-3-8, 2=0-3-8 lorz 2=175(LC 11) lplift 10=-140(LC 9), 2=-121(L brav 10=1316(LC 1), 2=1399(I	C 12) _C 1)			
FORCES. (lb) - Max. TOP CHORD 2-3= 7-8= 7-8= BOT CHORD 2-18 11-12 11-12 WEBS 3-18 8-11 5-15	Comp./Max. Ten All forces -1887/89, 3-4=-4332/254, 4-5= -2271/190 =-152/1433, 17-18=-81/861, 11 3=-185/1581, 10-11=-185/158 =-1245/124, 13-15=-186/2104 =0/286, 8-10=-1891/186, 3-17= =-44/857	250 (lb) or less except 4567/363, 5-6=-2777, 6-17=-148/2197, 15-16 1 , 7-15=-59/496, 7-13=- =-302/3143, 5-16=0/33	when shown. /218, 6-7=-2753/218, 3=-150/2188, 6-15=-364/88, 674/126, 8-13=-47/844, 82, 5-17=-327/2094,		A
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V II; Exp B; Enclosed; 12-2-15, Interior(1) ' and forces & MWFR 3) Provide adequate di 4) All plates are MT20 5) This truss has been (4) All plates are MT20 5) This truss has been (5) * This truss has been (6) * This truss has been (7) One RT7A MiTek co uplift only and does 8) This truss is designer referenced standard 9) This truss design re- sheetrock be applien 10) Graphical purlin re	e loads have been considered /ult=130mph (3-second gust) \ MWFRS (directional) and C-O 12-2-15 to 32-11-4 zone; canti RS for reactions shown; Lumbe rainage to prevent water pond plates unless otherwise indica designed for a 10.0 psf bottor in designed for a live load of 20 bottom chord and any other me bonnectors recommended to co not consider lateral forces. ed in accordance with the 2018 d ANSI/TPI 1. quires that a minimum of 7/16 d directly to the bottom chord. presentation does not depict to	for this design. Vasd=103mph; TCDL= Exterior(2E) -1-4-0 to lever left and right exp or DOL=1.60 plate grip ing. tted. n chord live load nonco 0.0psf on the bottom cl embers. nnect truss to bearing 3 International Resider ' structural wood sheat the size or the orientation	6.0psf; BCDL=6.0psf; h=25ft; 1-8-0, Interior(1) 1-8-0 to 8-0- osed ; end vertical left and righ DOL=1.60 borcurrent with any other live lo hord in all areas where a recta walls due to UPLIFT at jt(s) 10 thial Code sections R502.11.1 thing be applied directly to the pon of the purlin along the top a	B=45ft; L=24ft; eave=4ft; Cat. 0, Exterior(2R) 8-0-0 to t exposed;C-C for members ads. ngle 3-6-0 tall by 2-0-0 wide and 2. This connection is for and R802.10.2 and top chord and 1/2" gypsum nd/or bottom chord.	SEAL 035183 MGINEER. March 25,2022
WARNING - Verify Design valid for use o a truss system. Beforr building design. Brac is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES (nly with MITek® connectors. This desi e use, the building designer must verif ing indicated is to prevent buckling of stability and to prevent collapse with p lelivery, erection and bracing of trusses available from Truss Plate Institute. 26	ON THIS AND INCLUDED MI gn is based only upon param y the applicability of design p ndividual truss web and/or cl oossible personal injury and p s and truss systems, see 70 Crain Highway. Suite 203	TEK REFERENCE PAGE MII-7473 rev. teters shown, and is for an individual b arameters and properly incorporate th hord members only. Additional tempol oroperty damage. For general guidanc ANSI/TPI1 Quality Criteria, DS Waldorf. MD 20601	5/19/2020 BEFORE USE. uilding component, not s design into the overall any and permanent bracing a regarding the 3-89 and BCSI Building Component	ENGINEERING BY TRENCO A MITEK Affiliate 818 Soundside Road Edertrop, NC 27920

Edenton, NC 27932



Plate Offsets (X,Y) [1:0-5-0,Edge], [4:0-6-0,0-4-0], [14:0-2-4,0-3-8], [16:0-5-8,0-3-0], [17:0-2-0,0-2-8], [19:0-2-7,0-5-6], [19:0-5-4,0-3-8], [20:0-5-4,0-2-8]

Plate Offsets (X,Y)	[1:0-5-0,Edge], [4:0-6-0,0-4-0], [14:0-2-4	1,0-3-8], [16:0-5-8,0-3-0 <u>]</u> ,	[17:0-2-0,0-2-8], [19:0-2-	7,0-5-6], [19:0-5-4,	0-3-8], [20:0-	5-4,0-2-8]	
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 IRC2018/TPI2014	CSI. TC 0.56 BC 1.00 WB 0.92 Matrix-AS	DEFL. in Vert(LL) -0.38 Vert(CT) -0.72 Horz(CT) 0.40	(loc) l/defl 20-22 >999 20-22 >786 14 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 399 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF 20-21: WEBS 2x4 SF 4-20,4 OTHERS 2x4 SF	P No.2 P No.2 *Except* 2x6 SP 2400F 2.0E, 23-24,19-24,25-26 P No.3 *Except* 19: 2x4 SP No.2 P No.3	,10-15: 2x4 SP No.3	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s 2-0-0 oc purlins (Rigid ceiling direc 10-0-0 oc bracing 1 Row at midpt 2 Rows at 1/3 pts	heathing dired I-0-10 max.): tly applied. E : 17-19 2-2 4-1	ctly applied, except 4-8. Except: 20, 7-17 19	
REACTIONS. (siz Max H Max U Max G	e) 12=0-3-0, 1=0-3-8, 14=0-3-8 lorz 1=-199(LC 10) plift 12=-1085(LC 17), 1=-109(LC 12), 1 rav 1=1961(LC 17), 14=3642(LC 2)	4=-213(LC 12)					
FORCES. (lb) - Max. TOP CHORD 1-2= 8-10 BOT CHORD 1-22: 17-11 WEBS 2-22: 14-1 7-19:	Comp./Max. Ten All forces 250 (lb) or 6222/328, 2-4=-4911/226, 4-5=-2659/29 =-1865/178, 10-11=0/856, 11-12=-59/24 =-206/5679, 20-22=-207/5700, 19-20=0/ =0/2198, 16-17=-684/81 =0/287, 2-20=-1190/234, 4-20=0/3105, 4 6=-2113/157, 11-16=-51/1922, 10-17=0 =-18/955	less except when shown 59, 5-7=-2667/261, 7-8=-1 71 4260, 12-14=-2045/123, 1 -19=-1749/0, 8-17=0/578 /2338, 5-19=-515/134, 7-7	1541/196, 10-16=-2345/174, 8, 11-14=-2377/108, 17=-1203/98,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V II; Exp B; Enclosed; 21-1-3, Interior(1) 2: exposed ; end vertion Lumber DOL=1.60; p; 3) Provide adequate d 4) All plates are 2x4 M 5) This truss has been will fit between the b 7) Bearing at joint(s) 1 capacity of bearing : 8) Provide mechanical 12=1085. 9) One RT7A MiTek co uplift only and does 10) This truss is design	a loads have been considered for this de /ult=130mph (3-second gust) Vasd=103 MWFRS (directional) and C-C Exterior(1-1.3 to 36-10-4, Exterior(2R) 36-10-4 to al left and right exposed; porch right exp blate grip DOL=1.60 rainage to prevent water ponding. T20 unless otherwise indicated. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on 1 bottom chord and any other members, w 14 considers parallel to grain value usin surface. connection (by others) of truss to bearing pontometors recommended to connect trus not consider lateral forces. red in accordance with the 2018 Interna	sign. mph; TCDL=6.0psf; BCDI 2E) 0-0-0 to 3-0-0, Interior 41-1-3, Interior(1) 41-1-3 bosed;C-C for members a e load nonconcurrent with he bottom chord in all are ith BCDL = 10.0psf. ng ANSI/TPI 1 angle to gr. ig plate capable of withsta s to bearing walls due to l tional Residential Code se	L=6.0psf; h=25ft; B=45ft; r(1) 3-0-0 to 16-10-5, Ext 3 to 53-4-0 zone; cantileve and forces & MWFRS for h any other live loads. eas where a rectangle 3-6 ain formula. Building des anding 100 lb uplift at join UPLIFT at jt(s) 1 and 14. ections R502.11.1 and R	L=24ft; eave=6ft; C erior(2R) 16-10-5 te er left and right reactions shown; 6-0 tall by 2-0-0 wid signer should verify t(s) except (jt=lb) This connection is 302.10.2 and	Cat. o le	SE 035	AR AL 5183 NEER. S LEE. March 25,2022

Continuere onesage radard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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	Otv	Plv	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss			
000	11400	11466 1)po	~.,	,	T27235580			
					127233300			
22020382-01	T1R	PIGGYBACK BASE	4	1				
					Job Reference (optional)			
Carter Components (Lexingt	on), Lexington, NC - 2729	95,	8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:13:23 2022 Page 2					
		ID:R2E	ID:R2Eywbwb09xDUuNDwBLKtWzWU3y-ZixhXFWmHFm3QKEufgcmZVxAIJ1ZszL2					

NOTES-

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Craphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss
					T27235581
22020382-01	H1	HIP	1	1	
					Job Reference (optional)
Carter Components (Lexingt	on), Lexington, NC - 272	95,	. 8	.530 s Dec	6 2021 MiTek Industries, Inc. Thu Mar 24 11:12:31 2022 Page 2
		ID:R2Eywbv	vb09xDUu	NDwBLKt\	NzWU3y-5io1dTu9XHDRBLGuclgZSXnH4MHNgSiviNk05SzXkmE
					· · ·

NOTES-

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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





	8-4-1 16-0-0 1	6-6-8 22-8-3	29-4-6 32-9-8	33-1-0 37-8-9	45-10-4	52-0-0	
Plate Offsets (X,Y)	8-4-1 7-7-15 [1:0-3-13.Edge]. [4:0-2-0.0-3-4]. [14:0-3	<u>-6-8 6-1-11</u> -8.0-2-0]. [16:0-5-12.0-4-0	<u>6-8-3</u> <u>3-5-2</u> 0]. [16:0-2-5.0-5-12]	0-3-8 4-7-9	8-1-11	6-1-12	
		<u>,, [10.0 0 12,0 + </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 IncrYESCodeIRC2018/TPI2014	CSI. TC 0.58 BC 0.76 WB 0.97 Matrix-AS	DEFL. in Vert(LL) -0.37 Vert(CT) -0.7(Horz(CT) 0.37	n (loc) l/defl 7 18-20 >999 0 18-20 >785 7 13 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 384 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S 18-19 WEBS 2x4 S 8-16,1 OTHERS 2x4 S	P No.2 P No.2 *Except* 1-19: 2x6 SP 2400F 2.0E, 21-22,16-22: P No.3 *Except* 0-14,4-18: 2x4 SP No.2 P No.3	2x4 SP No.3	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	sheathing dir (3-11-15 max ctly applied. 2 [.]	ectly applied, except .): 4-8. -18, 4-17, 8-14, 6-16	
REACTIONS. (siz Max Max Max (te) 1=0-3-8, 11=0-3-0, 13=0-3-8 Horz 1=-187(LC 10) Jplift 1=-108(LC 12), 11=-829(LC 17), 13 Grav 1=1906(LC 17), 13=3412(LC 2)	=-212(LC 12)					
FORCES. (ib) - Max TOP CHORD 1-2= 8-10 1-2 BOT CHORD 1-2 WEBS 2-20 8-16 6-16	. comp./wax. ren All forces 250 (b) of -6001/311, 2-4=-4763/230, 4-5=-3223/2(=-1357/171, 10-11=-30/2053 =-189/5468, 18-20=-192/5474, 14-16=0/ 8=0/4717, 16-17=0/2277 =0/311, 2-18=-1088/203, 4-17=-1673/0, =-86/1571, 8-14=-916/120, 10-14=-14/29 =-1466/140	1055 except when shown 51, 5-6=-3222/260, 6-8=-2 1067, 13-14=-1666/94, 1 5-17=-424/108, 6-17=-13 986, 10-13=-3161/229, 4-	, 2122/254, 1-13=-1666/94, /1548, .18=0/3123,				
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; II; Exp B; Enclosed 20-2-15, Interior(1) exposed; end verti Lumber DOL=1.60 3) Provide adequate of 4) This truss has beer will fit between the will fit between the will fit between the (6) Bearing at joint(s) 1 capacity of bearing 7) Provide mechanica 11=829. 8) One RT7A MiTek of uplift only and does 9) This truss is design referenced standar Continued on page 2 WARNING - Verify Design valid for use	e loads have been considered for this de Vult=130mph (3-second gust) Vasd=103 ; MWFRS (directional) and C-C Exterior(20-2-15 to 37-8-9, Exterior(2R) 37-8-9 to cal left and right exposed; porch right exp plate grip DOL=1.60 Irainage to prevent water ponding. In designed for a 10.0 psf bottom chord live an designed for a live load of 20.0psf on the bottom chord and any other members, w , 13 considers parallel to grain value usin surface. I connection (by others) of truss to bearin onnectors recommended to connect trus not consider lateral forces. ed in accordance with the 2018 Internation d ANSI/TPI 1.	sign. mph; TCDL=6.0psf; BCDJ 2E) 0-0-0 to 3-0-0, Interio 41-11-8, Interior(1) 41-1 bosed;C-C for members a e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. ng ANSI/TPI 1 angle to gr ig plate capable of withsta s to bearing walls due to b onal Residential Code ser	L=6.0psf; h=25ft; B=45ft r(1) 3-0-0 to 16-0-0, Ext 1-8 to 53-4-0 zone; cant and forces & MWFRS for h any other live loads. eas where a rectangle 3- rain formula. Building de anding 100 lb uplift at joi UPLIFT at jt(s) 1 and 13 ctions R502.11.1 and R8	; L=24ft; eave=6ft; erior(2R) 16-0-0 to ilever left and right reactions shown; 6-0 tall by 2-0-0 w esigner should veri nt(s) except (jt=lb) . This connection i 302.10.2 and	Cat. ide fy s for		AR AL 183 NEER SLEER March 25,2022

billing design. Dialong indicates to prevent blocking of individual individual individual emposition. For general guidance regarding the is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 23-2100 Elev 'A' Permit-Roof Truss	
					T2723558	32
22020382-01	H1A	HIP	1	1		
					Job Reference (optional)	
Carter Components (Lexingt	on), Lexington, NC - 272	95,	8	.530 s Dec	c 6 2021 MiTek Industries, Inc. Thu Mar 24 11:12:33 2022 Page 2	
		ID:R2Evwbwl		DwBI KtW	7WII3v-14wp28wP3uT9OfPHkAi1XvscW91a8IDC9bD69KzXkmC	

NOTES-

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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





Scale = 1:97.9



H	7-7-10 14-0 7-7-10 6-4	0-0 16-6-8 -6 2-6-8	23-0-5 6-5-13	29-4-6 6-4-1	33-1-0 3-8-10	<u>39-8-9</u> 6-7-9	45-10-4 6-1-11	<u>52-0-0</u> 6-1-12	———————————————————————————————————————
Plate Offsets (X,Y)	[5:0-5-0,0-3-7], [12:0-4-8,0-	-4-8], [19:0-5-4,0-3-8]	, [19:0-2-7,0-5-6]						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 C 1.15 T 1.15 B YES W 2014 M	SI. C 0.56 C 0.88 /B 0.97 atrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.45 20-21 -0.84 20-21 0.45 16	l/defl L/d >999 240 >658 180 n/a n/a		PLATES MT20 MT20HS Weight: 387 lb	GRIP 244/190 187/143 FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S 21-23 WEBS 2x4 S REACTIONS. (si Max	P No.2 P No.2 *Except* ,2-23: 2x6 SP 2400F 2.0E, 2 P No.3 ze) 2=0-3-8, 16=0-3-8 Horz 2=-167(I C 10)	25-26,19-26: 2x4 SP f	lo.3	BRACING- TOP CHOR BOT CHOR WEBS	2-0-0 c 2-0-0 c D Rigid c 1 Row	rral wood sheath oc purlins (2-7-3 eiling directly ap at midpt	ing directly a max.): 5-11. plied. 9-19, 1	applied, except 0-17	
Max (Max (Uplift 2=-140(LC 12), 16=-19 Grav 2=2072(LC 17), 16=26	90(LC 12) 644(LC 19)							
FORCES. (lb) - Max TOP CHORD 2-3= 9-10 9-10 BOT CHORD 2-24 17-1 17-1	Comp./Max. Ten All forca =-6322/287, 3-5=-5559/234,)=-2887/229, 10-11=-1322/1 4=-173/5728, 22-24=-173/57 19=0/2236, 16-17=-468/353,	es 250 (lb) or less exc 5-6=-6213/252, 6-7=- 28, 11-13=-1621/111 56, 21-22=0/5027, 20 14-16=-468/353	ept when shown 6213/252, 7-9=-/ 13-14=-336/643 -21=-35/4575, 19	4315/260, 5 9-20=0/3065,					
WEBS 3-22 7-20 9-19	2=-632/159, 5-22=-13/531, 5)=-1372/113, 9-20=-44/1877)=-1465/126, 10-19=-35/118	-21=-31/2400, 6-21=- , 11-17=0/592, 13-17 7, 10-17=-1511/136	269/80, 7-21=0/2 =-94/2052, 13-16	2138, 5=-2461/236,					
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; II; Exp B; Enclosed 18-2-15, Interior(1) exposed ; end verti grip DOL=1.60 3) Provide adequate of 4) All plates are MT20 5) This truss has beer will fit between the 7) Bearing at joint(s) 2 capacity of bearing 8) One RT7A MiTek of uplift only and does 9) This truss is design sheetrock be appi 11) Graphical purlin ro	ve loads have been consider Vult=130mph (3-second gus); MVFRS (directional) and (18-2-15 to 39-8-9, Exterior(3 ical left and right exposed;C- drainage to prevent water po) plates unless otherwise ind n designed for a 10.0 ps foot en designed for a live load o bottom chord and any other 2, 16 considers parallel to gra surface. connectors recommended to a not consider lateral forces. ed in accordance with the 2 d ANSI/TPI 1. requires that a minimum of 7 lied directly to the bottom cho- epresentation does not depice	ed for this design. t) Vasd=103mph; TC C-C Exterior(2E) -1-2- 2R) 39-8-9 to 43-11-8 C for members and for nding. licated. tom chord live load no f 20.0psf on the botto members, with BCDL ain value using ANSI/ connect truss to bear 018 International Res 7/16" structural wood ord. ct the size or the orier	DL=6.0psf; BCDI 0 to 1-10-0, Inter , Interior(1) 43-1 rrces & MWFRS onconcurrent with m chord in all are = 10.0psf. TPI 1 angle to gr ing walls due to l dential Code sec sheathing be app tation of the purl	L=6.0psf; h=25ft; E ior(1) 1-10-0 to 14 1-8 to 53-4-0 zone for reactions show n any other live loa eas where a rectar ain formula. Build UPLIFT at jt(s) 2 a ctions R502.11.1 a blied directly to the in along the top ar	3=45ft; L=24ft; -0-0, Exterior(2 ; cantilever left rn; Lumber DO ads. ing designer sh ing designer sh ind 16. This cor and R802.10.2 a top chord and	eave=6ft; Cat. R) 14-0-0 to and right L=1.60 plate y 2-0-0 wide hould verify nnection is for and 1/2" gypsum ord.	Contraction of the second	SE 035	AL AL NEFR. March 25,2022
WARNING - Verify Design valid for use a truss system. Befo building design. Bra is always required fo fabrication, storage, Safety Information	y design parameters and READ NOTI only with MiTek® connectors. This or re use, the building designer must v cing indicated is to prevent buckling r stability and to prevent collapse wi delivery, erection and bracing of trus available from Truss Plate Institute.	ES ON THIS AND INCLUDE design is based only upon p erify the applicability of des of individual truss web and th possible personal injury sees and truss systems, see , 2670 Crain Highway, Suit	D MITEK REFERENCE arameters shown, an gn parameters and p for chord members o and property damage ANSI/TPI 203 Waldorf, MD 200	E PAGE MII-7473 rev. (d is for an individual bu roperly incorporate this nly. Additional tempora . For general guidance (<i>Quality Criteria, DSE</i> 601	5/19/2020 BEFORE iilding component, design into the ovury and permanent regarding the 8-89 and BCSI Bui	USE. not erall bracing Iding Component		818 Soundside Edenton, NC 2	RING BY AMITEK Affiliate Road 7932



L	5-5-0 I	12-0-0	19-4-4	26-10-5	34-4-5	1	41-8-9	46-0-0
1	5-5-0	6-7-0	7-4-4	7-6-0	7-6-0	1	7-4-4	4-3-7
Plate Offsets (X,Y)	[2:0-0-0,0-1-5], [4	:0-4-0,0-1-11], [9:0-4-0	0,0-1-11]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip Lumber DC Rep Stress Code IRC2	2-0-0 DOL 1.15 DL 1.15 Incr YES 2018/TPI2014	CSI. TC 0.76 BC 0.93 WB 0.84 Matrix-AS	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0	in (loc) l/defl 30 15-16 >999 54 15-16 >999 16 11 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 286 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF 4-7,7-5 BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x4 SF WEDGE Left: 2x4 SP No.3	P No.2 *Except* 9: 2x4 SP No.1 P No.1 P No.3 P No.3			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s 2-0-0 oc purlins (Rigid ceiling direr 1 Row at midpt	sheathing dired (2-9-5 max.): 4 ctly applied. 6-1	ctly applied, except -9. 16, 6-13, 9-12, 10-11	end verticals, and
REACTIONS. (siz Max H Max U Max G	e) 2=0-3-8, 11=0 lorz 2=224(LC 11) Jplift 2=-152(LC 12 Grav 2=2186(LC 12	0-3-8 2), 11=-112(LC 12) 7), 11=2087(LC 18)						
FORCES. (lb) - Max. TOP CHORD 2-3=: 8-9=: 8-9=: BOT CHORD 2-19: 12-11 WEBS 8-13:	Comp./Max. Ten. -3540/202, 3-4=-3 -2605/232, 9-10=- =-138/3063, 18-19 3=-82/1167 =-374/89, 4-18=0/4 =-490/163, 9-13=-	- All forces 250 (lb) or 157/231, 4-5=-3375/2 1360/147, 10-11=-205 =-138/3063, 16-18=-7 195, 4-16=-51/1071, 5 110/2058, 9-12=-1078	less except when show 74, 5-6=-3374/273, 6-8= 8/132 5/2722, 15-16=-96/3404 -16=-490/129, 6-15=0/40 /137, 10-12=-71/1749	n. -2604/231, 4, 13-15=-96/3404, 09, 6-13=-1063/55,				
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ II; Exp B; Enclosed; 16-2-15, Interior(1) right exposed;C-C fn 3) Provide adequate d 4) This truss has been 5) * This truss has been will fit between the b 6) One RT7A MiTek co uplift only and does 7) This truss is designer referenced standard 8) This truss design re sheetrock be applie 9) Graphical purlin rep 	e loads have been /ult=130mph (3-se MWFRS (directior 16-2-15 to 41-8-9, or members and for rainage to prevent designed for a 10. en designed for a lin pottom chord and a ponnectors recomm- not consider lattera ed in accordance v d ANSI/TPI 1. quires that a minin d directly to the bo resentation does n	considered for this de cond gust) Vasd=103 hal) and C-C Exterior(Exterior(2E) 41-8-9 to prces & MWFRS for re water ponding. 0 psf bottom chord liv ve load of 20.0psf on 1 nny other members, w ended to connect trus al forces. with the 2018 Internation hum of 7/16" structura ttom chord. ot depict the size or the	esign. mph; TCDL=6.0psf; BCE 2E) -1-4-0 to 1-8-0, Inter 45-10-4 zone; cantileve vactions shown; Lumber re load nonconcurrent wi the bottom chord in all an ith BCDL = 10.0psf. s to bearing walls due to conal Residential Code se I wood sheathing be app ne orientation of the purli	DL=6.0psf; h=25ft; B=4 ior(1) 1-8-0 to 12-0-0, f r left and right exposed DOL=1.60 plate grip D th any other live loads. reas where a rectangle 0 UPLIFT at jt(s) 2 and ections R502.11.1 and blied directly to the top of in along the top and/or	5ft; L=24ft; eave=6ft; Exterior(2R) 12-0-0 to ; end vertical left and DL=1.60 3-6-0 tall by 2-0-0 wi I1. This connection is R802.10.2 and shord and 1/2" gypsur bottom chord.	Cat. de s for	SI OS SI OS SI OS SI OS	EAL 5183

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 25,2022

818 Soundside Road Edenton, NC 27932



 	<u>10-0-0</u> 10-0-0	<u>16-7-14</u> 6-7-14	23-5-8 6-9-10		30-3-1 6-9-10	37-0-11 6-9-10	43-8-9 6-7-14	46-0-0
Plate Offsets (X,Y)	[2:0-0-0,0-1-5], [4:0-4-0,0-	1-11], [13:Edge,0-1-8], [6:0-3-4,Edge]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 CSI 1.15 TC 1.15 BC YES WB 2014 Mat	0.81 0.80 0.85 rix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.36 17-18 -0.65 17-18 0.18 13	l/defl L/d >999 240 >845 180 n/a n/a	PLATES MT20 Weight: 281 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 16-19: WEBS 2x4 SF WEDGE Left: 2x4 SP No.3	P No.2 P SS *Except* 2x4 SP No.1 P No.3			BRACING TOP CHO BOT CHO WEBS	- RD Structu 2-0-0 (RD Rigid (1 Row 2 Row	ural wood sheathing c oc purlins (2-2-0 max. ceiling directly applied at midpt s at 1/3 pts	directly applied, except o .): 4-11. d. 7-18, 7-16, 12-13 10-14	end verticals, and
REACTIONS. (siz Max H Max U Max G	e) 2=0-3-8, 13=Mechanid lorz 2=201(LC 11) Jplift 2=-152(LC 12), 13=-1 Grav 2=2169(LC 17), 13=20	cal 12(LC 12) 068(LC 19)						
FORCES. (lb) - Max. TOP CHORD 2-3= 8-10: 8-10: BOT CHORD 2-20: 14-1: WEBS 4-20: 8-16:	Comp./Max. Ten All forc -3479/239, 3-4=-3270/212, =-3648/271, 10-11=-739/11 =-172/3002, 18-20=-79/282 5=-160/2585 =0/389, 4-18=-84/1385, 5-1 =-403/112, 10-16=-79/1458	es 250 (lb) or less excep 4-5=-3772/281, 5-7=-37 1, 11-12=-850/112, 12 25, 17-18=-151/4116, 16 8=-446/116, 7-18=-477/ 3, 10-15=0/368, 10-14=-2	ot when shown. 70/280, 7-8=-36 3=-2078/120 17=-151/4116, 18, 7-17=0/362, 2487/135, 12-14	648/271, 15-16=-160/258 7-16=-576/30, =-103/1822	35,			
 NOTES- Unbalanced roof live Wind: ASCE 7-16; \ II; Exp B; Enclosed; 14-2-15, Interior(1) right exposed;C-Cf Provide adequate d This truss has been will fit between the b Refer to girder(s) fo Provide mechanical 13=112. One RT7A MiTek cc only and does not cc Only and does not cc This truss is design referenced standard This truss design r sheetrock be appli 11) Graphical purlin re 	e loads have been consider /ult=130mph (3-second gus MWFRS (directional) and 14-2-15 to 43-8-9, Exterior() or members and forces & rainage to prevent water por designed for a 10.0 psf bo on designed for a live load of pottom chord and any other r truss to truss connections connection (by others) of t ponnectors recommended to onsider lateral forces. ed in accordance with the 2 d ANSI/TPI 1. equires that a minimum of ed directly to the bottom ch presentation does not depi	red for this design. st) Vasd=103mph; TCDI C-C Exterior(2E) -1-4-0 2E) 43-8-9 to 45-10-4 zr /WFRS for reactions sho onding. ttom chord live load non of 20.0psf on the bottom members, with BCDL = russ to bearing plate cap connect truss to bearing 2018 International Reside 7/16" structural wood sh lord. ct the size or the orienta	=6.0psf; BCDL= o 1-8-0, Interior one; cantilever le own; Lumber DC concurrent with chord in all area 10.0psf. vable of withstar g walls due to U ential Code sect eathing be appli	=6.0psf; h=25ft; (1) 1-8-0 to 10-6 ft and right exp DL=1.60 plate g any other live lo is where a rectand nding 100 lb upl PLIFT at jt(s) 2. ions R502.11.1 ed directly to th along the top a	B=45ft; L=24ft;)-0, Exterior(2R osed ; end verti ip DOL=1.60 ads. ngle 3-6-0 tall b ft at joint(s) exc This connection and R802.10.2 e top chord and nd/or bottom ch	eave=6ft; Cat.) 10-0-0 to cal left and by 2-0-0 wide ept (jt=lb) n is for uplift and 1/2" gypsum hord.	SE OSE	AROLAR EAL 5183 NEER S LEELUUM March 25,2022
WARNING - Verify Design valid for use o a truss system. Befor building design. Brac is always required for fabrication, storage, d Safety Information	design parameters and READ NOT nly with MITek® connectors. This e use, the building designer must v ing indicated is to prevent buckling stability and to prevent collapse w lelivery, erection and bracing of tru available from Truss Plate Institute	ES ON THIS AND INCLUDED design is based only upon para verify the applicability of design of individual truss web and/or ith possible personal injury am sese and truss systems, see a, 2670 Crain Highway, Suite 2	AITEK REFERENCE meters shown, and parameters and pro- chord members only property damage. ANS//TPI1 0 03 Waldorf, MD 2000	PAGE MII-7473 rev is for an individual t perly incorporate th y. Additional tempo For general guidanc Quality Criteria, DS 01	5/19/2020 BEFORE building component, is design into the ov rary and permanent be regarding the B-89 and BCSI Building	USE. not erall bracing <i>ilding Component</i>	818 Soundside	ERING BY ENCO A MITEK Affiliate Road 7932



	8-0-0	15-6-8	23-1-0		30-7-9	38-2-1	46-0-	0
Plate Offsets (X,Y)	[3:0-4-0,0-1-11], [10:0-4-	8,0-2-0], [11:Edg	e,0-1-8], [16:0-3-12,0-1	-8], [17:0-3-8,0-1	-8]	7-0-0	7-0-1	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.80 BC 0.70 WB 0.73 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.34 15 -0.71 14-15 0.18 11	l/defl L/d >999 240 >773 180 n/a n/a	PLATES MT20 MT20HS MT18HS Weight: 246 lb	GRIP 244/190 187/143 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 S 1-3: 2 BOT CHORD 2x4 S WEBS 2x4 S 3-17,1 WEDGE Left: 2x4 SP No.3	P 2400F 2.0E *Except* x4 SP No.2 P No.1 P No.3 *Except* I0-12: 2x4 SP No.2			BRACING TOP CHC BOT CHC WEBS	5- RD Struc: 2-0-0 RD Rigid 1 Rov	tural wood sheathin oc purlins (3-6-5 m ceiling directly appl v at midpt	ng directly applied, except ax.): 3-10. lied. 7-12, 10-11	end verticals, and
REACTIONS. (siz Max Max Max (ze) 2=0-3-8, 11=Mechar Horz 2=177(LC 11) Uplift 2=-152(LC 12), 11=- Grav 2=1915(LC 1), 11=1	ical 140(LC 9) 333(LC 1)						
FORCES. (lb) - Max TOP CHORD 2-3= 9-10 BOT CHORD 2-18 WEBS 3-18 7-15	Comp./Max. Ten All for 3062/205, 3-4=-4015/302)=-2538/209, 10-11=-1758, 3=-108/2552, 17-18=-111/2)=0/292, 3-17=-97/1827, 4- j=-37/588, 7-14=0/295, 7-1	rces 250 (lb) or le 2, 4-6=-4463/329 /176 2547, 15-17=-193 -17=-822/146, 4- 1/2=-1692/105, 9-	ess except when shown , 6-7=-4463/329, 7-9=-2 8/4013, 14-15=-189/396 15=-32/574, 6-15=-450, 12=-490/216, 10-12=-1	2538/209, 7, 12-14=-189/3 /127, 79/2937	967			
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; II; Exp B; Enclosed 12-2-15, Interior(1) and forces & MWFI 3) Provide adequate of 4) All plates are MT2C 5) This truss has beer 6) * This truss has beer 7) Refer to girder(s) fc 8) Provide mechanica 11=140. 9) One RT7A MiTke of only and does not of 10) This truss is design referenced standa 11) This truss design sheetrock be application of the standard of the standard 12) Graphical purlin referenced standard 13) Craphical purlin referenced standard 14) Craphical purlin referenced standard 14) Craphical purlin referenced standard 15) Craphical purlin referenced standard 16) Craphical purlin referenced standard 17) Craphical purlin referenced standard 18) Craphical purlin referenced standard 19) Craphical purlin referenced standard 10) Craphical purlin referenced standard 10) Craphical purlin referenced standard 11) Craphical purlin referenced standard 12) Craphical purlin referenced standard 13) Craphical purlin referenced standard 14) Craphical purlin referenced standard 15) Craphical purlin referenced standard 16) Craphical purlin referenced standard 17) Craphical purlin referenced standard 18) Craphical purlin referenced standard 19) Craphical purlin referenced standard 10) Craphical purlin referenced standard 10) Craphical purlin referenced standard 10) Craphical purlin referenced standard 11) Craphical purlin referenced standard 11) Craphical purlin referenced standard 11) Craphical purlin referenced standard 12) Craphical purlin referenced standard 13) Craphical purlin referenced standard 14) Craphical purlin referenced standard 15) Craphical purlin referenced standard 16) Craphical purlin referenced standard 17) Craphical purlin referenced standard 18) Craphical purlin referenced standard 19) Craphical purlin referenced standard 19) Craphical purlin referenced standard 10) Craphical purlin referenced standard 10) Craphical purlin referenced standard 10) Craphical purlin referenced standard 10) Craphi	ve loads have been consid- Vult=130mph (3-second gr ; MWFRS (directional) and 12-2-15 to 45-10-4 zone; r RS for reactions shown; Lu frainage to prevent water p) plates unless otherwise in n designed for a 10.0 psf b en designed for a live load bottom chord and any other or truss to truss connection il connectors recommended f consider lateral forces. gned in accordance with the ard ANSI/TPI 1. requires that a minimum o lied directly to the bottom co	ered for this desi ust) Vasd=103m I C-C Exterior(2E cantilever left an imber DOL=1.60 onoding. ndicated. ottom chord live of 20.0psf on the r members. s. truss to bearing truss	gn. ph; TCDL=6.0psf; BCDI c) -1-4-0 to 1-8-0, Interio d right exposed ; end ve plate grip DOL=1.60 load nonconcurrent with e bottom chord in all are plate capable of withsta to bearing walls due to l onal Residential Code so wood sheathing be app e orientation of the purl	L=6.0psf; h=25ft; r(1) 1-8-0 to 8-0 ritical left and rig the any other live le bas where a rectan anding 100 lb upl JPLIFT at jt(s) 2 ections R502.11. blied directly to the in along the top a	B=45ft; L=24ft -0, Exterior(2R) ht exposed;C-C pads. angle 3-6-0 tall ift at joint(s) exu. . This connection 1 and R802.10 he top chord and and/or bottom c	e eave=6ft; Cat. 8-0-0 to 5 for members by 2-0-0 wide cept (jt=lb) on is for uplift .2 and d 1/2" gypsum hord.	SI S	EAL 5183 INEER JS LEER March 25,2022
WARNING - Verify Design valid for use a truss system. Befo building design. Bra is always required fo fabrication, storage, Safety Information	y design parameters and READ NC only with MiTek® connectors. Thi re use, the building designer mus cing indicated is to prevent bucklit r stability and to prevent collapse delivery, erection and bracing of f available from Truss Plate Institu	DTES ON THIS AND I s design is based onl t verify the applicabili ng of individual truss with possible person russes and truss syst te, 2670 Crain Highw	NCLUDED MITEK REFERENC y upon parameters shown, an ty of design parameters and p web and/or chord members o al injury and property damage erms, see <u>ANS/JTPI</u> vay, Suite 203 Waldorf, MD 20	E PAGE MII-7473 rev d is for an individual roperly incorporate th nly. Additional tempo. For general guidan Quality Criteria, DS 601	the state of the s	E USE. , not verall t bracing uilding Component	818 Soundsid	ERING BY ERICO A Mitek Atfiliate ie Road 27932

