

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 22020383-01
Cameron Woods Lot 24-3320 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: T27236000 thru T27236046

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.

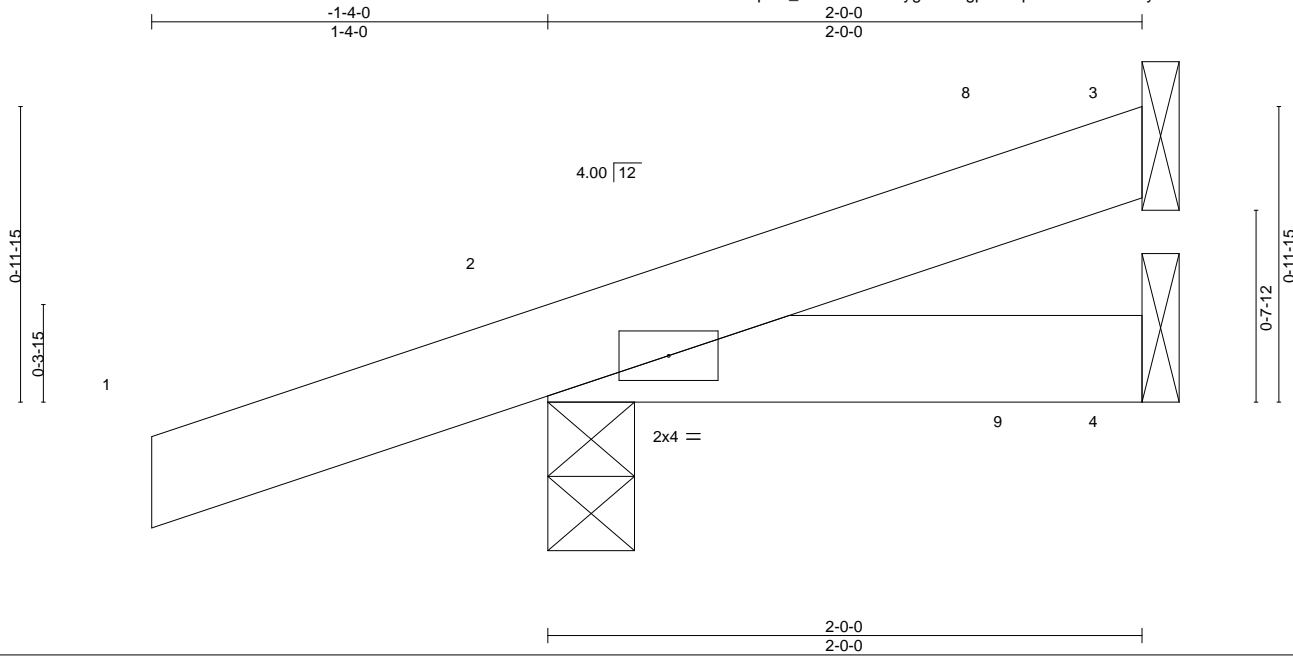
Job 22020383-01	Truss J5S	Truss Type JACK-OPEN	Qty 2	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236000
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:02 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-QgpUBvquhdfuHrme1FadySfXdu?m0MXwLkAtXFzXkMR

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 8 lb	FT = 20%
	Code IRC2018/TPI2014							

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

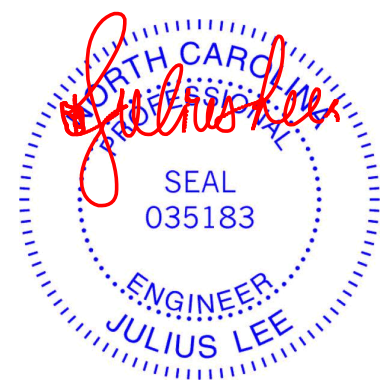
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=33(LC 12)
Max Uplift 3=-6(LC 12), 2=-61(LC 12), 4=-5(LC 9)
Max Grav 3=36(LC 1), 2=186(LC 1), 4=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



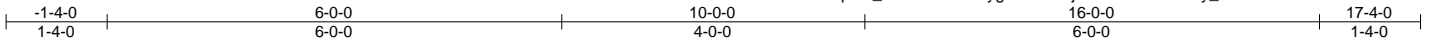
March 25, 2022

Job 22020383-01	Truss H5	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236001
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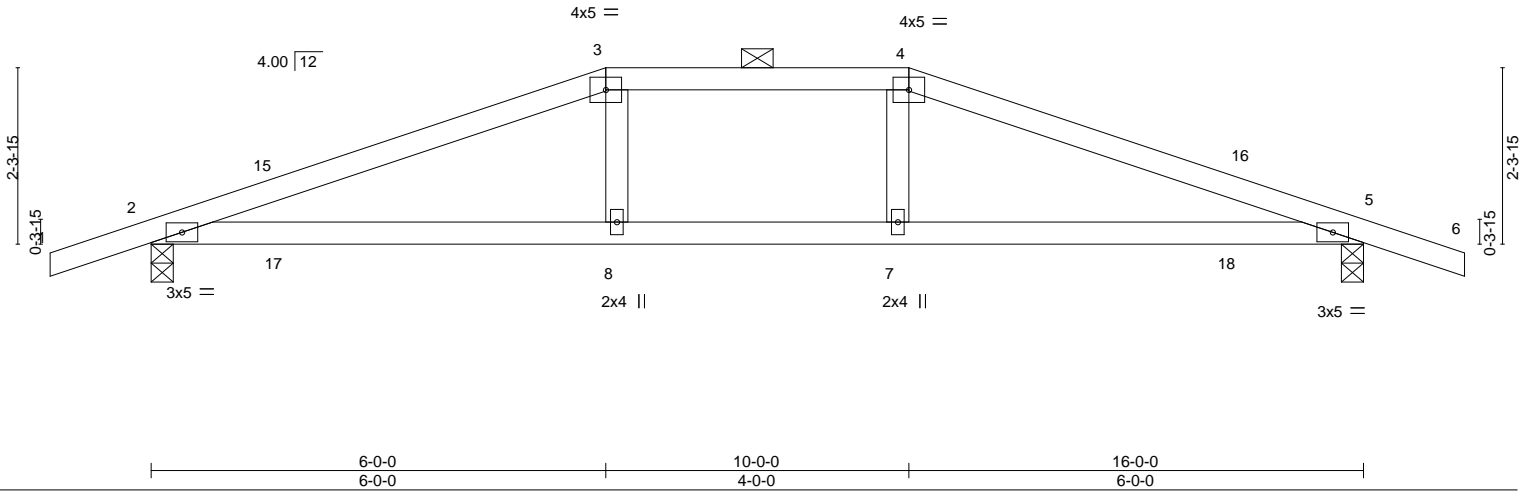
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:55 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-7KurjWkVLtntxmkI7Hy_9ztF73UAiBduk8z0o9zXkMY



Scale = 1:30.4



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 0.46	Vert(LL)	0.17 8-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.19 8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.03 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 58 lb	FT = 20%

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

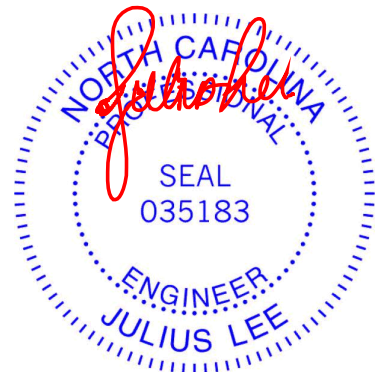
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (5-2-3 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
 Max Horz 2=-22(LC 10)
 Max Uplift 2=-174(LC 12), 5=-174(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=-1322/1213, 3-4=-1230/1203, 4-5=-1322/1224
 BOT CHORD 2-8=-1096/1221, 7-8=-1112/1230, 5-7=-1094/1221

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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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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



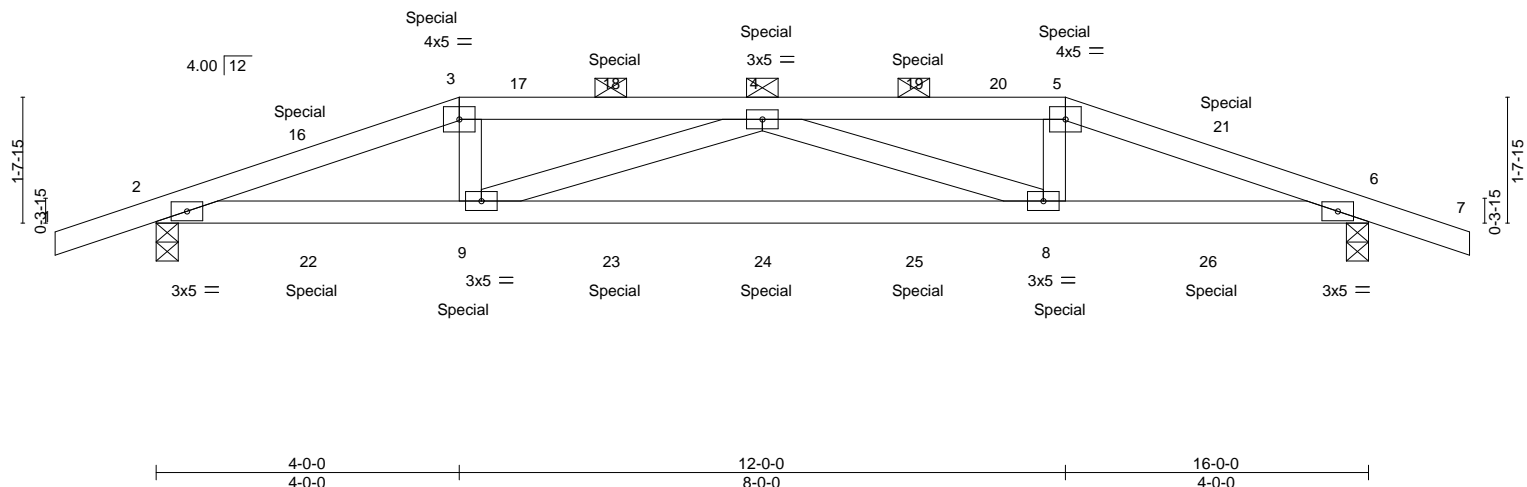
818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss H5GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236002
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:56 2022 Page 1
 ID:F7Th11J3pJM_1WbQYC5iDLygfU6-bWSDxsl76nvkYwJUUh?TDiBPRHTn3ccw1z0jZKczXkMX



Scale = 1:30.4



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 0.43	Vert(LL)	0.18	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.32	8-9	>598		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.05	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 67 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except
 2-0-0 oc purlins (3-8-11 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 7-10-12 oc bracing.

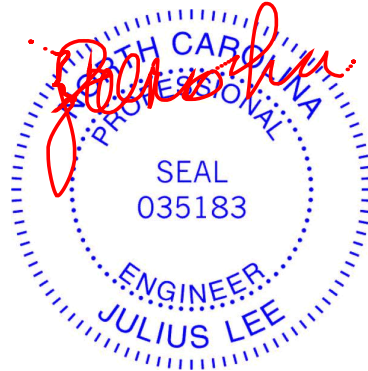
REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=16(LC 7)
 Max Uplift 2=-241(LC 4), 6=-241(LC 5)
 Max Grav 2=946(LC 1), 6=947(LC 1)

"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.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2161/535, 3-4=-2066/525, 4-5=-2069/526, 5-6=-2165/535
 BOT CHORD 2-9=-485/2021, 8-9=-626/2547, 6-8=-480/2025
 WEBS 3-9=-109/454, 4-9=-543/144, 4-8=-539/143, 5-8=-109/455

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 32 lb up at 2-0-12, 55 lb down and 44 lb up at 4-0-0, 38 lb down and 44 lb up at 6-0-12, 38 lb down and 44 lb up at 8-0-12, 38 lb down and 44 lb up at 10-0-12, and 55 lb down and 44 lb up at 12-0-0, and 39 lb down and 32 lb up at 13-11-4 on top chord, and 67 lb down and 30 lb up at 2-0-12, 28 lb down and 21 lb up at 4-0-12, 28 lb down and 21 lb up at 6-0-12, 28 lb down and 21 lb up at 8-0-12, 28 lb down and 21 lb up at 10-0-12, and 28 lb down and 21 lb up at 11-11-4, and 67 lb down and 30 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
 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



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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.
 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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss H5GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236002 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:56 2022 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-36(F) 5=-36(F) 9=-28(F) 4=-36(F) 8=-28(F) 18=-36(F) 19=-36(F) 22=-67(F) 23=-28(F) 24=-28(F) 25=-28(F) 26=-67(F)

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



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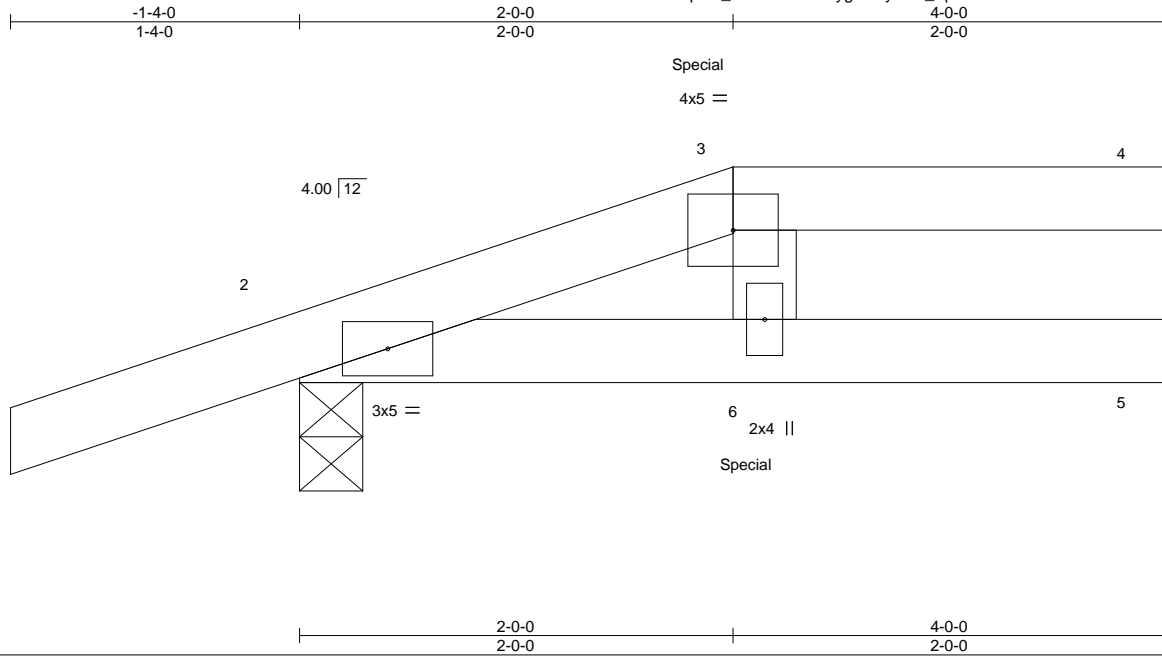
Job 22020383-01	Truss J5A	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236003
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:01 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-yUF6_ZpGwJX1fhBSUY2OPE7LdUcAHvum64QK?pzXkMS

Job Reference (optional)



Scale = 1:10.6

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 0.13	Vert(LL)	0.02	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.03	6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 15 lb	FT = 20%

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

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.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=33(LC 27)
 Max Uplift 4=20(LC 4), 2=74(LC 8), 5=24(LC 5)
 Max Grav 4=58(LC 1), 2=252(LC 1), 5=97(LC 3)

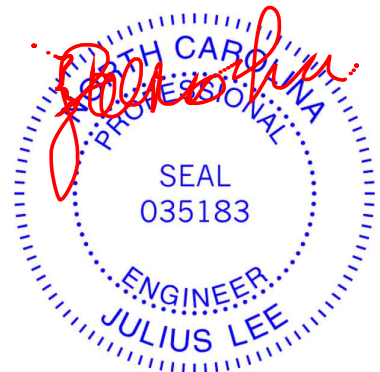
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.
- 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) 12 lb down and 16 lb up at 2-0-0 on top chord, and 5 lb down and 13 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
 Concentrated Loads (lb)
 Vert: 6=-1(B)



March 25, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss J5	Truss Type JACK-OPEN	Qty 5	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236004
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:00 2022 Page 1

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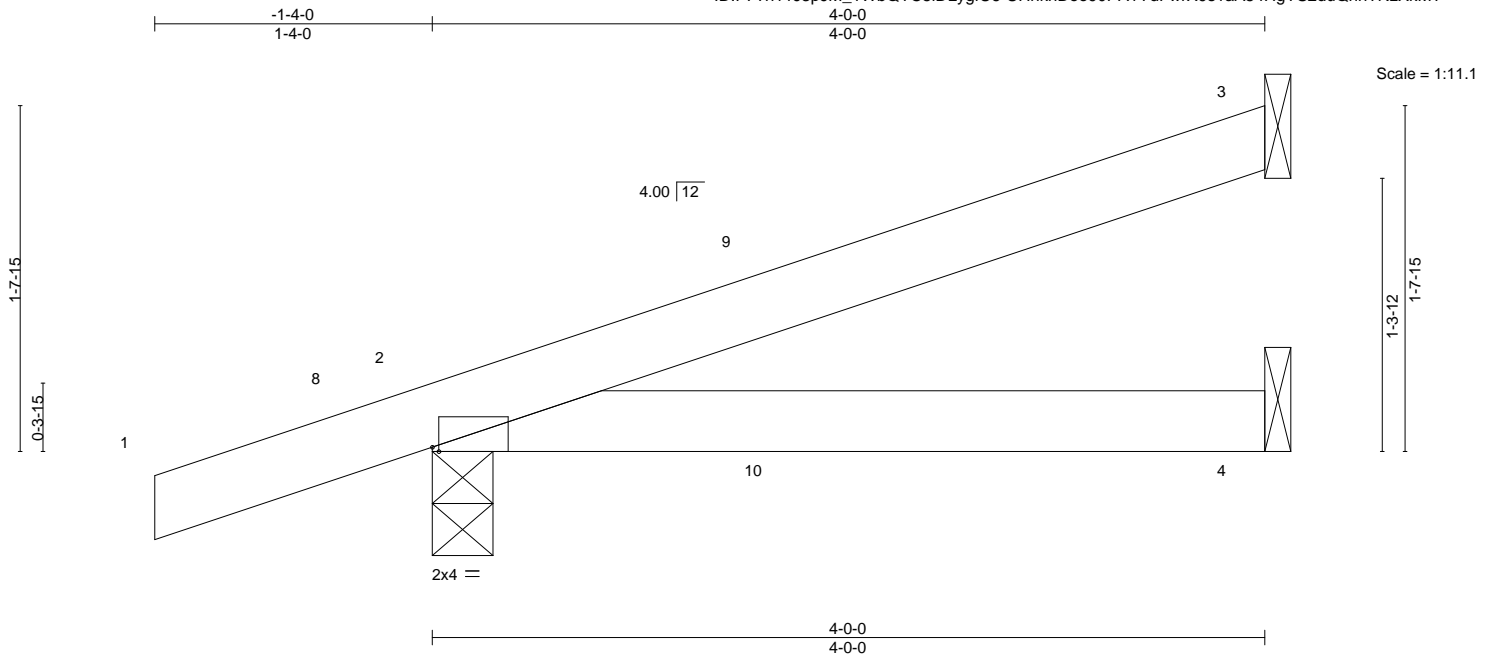


Plate Offsets (X, Y)--	[2:0-0-6, Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.03	4-7	>999	240
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	0.03	4-7	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					
								Weight: 14 lb
								FT = 20%

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

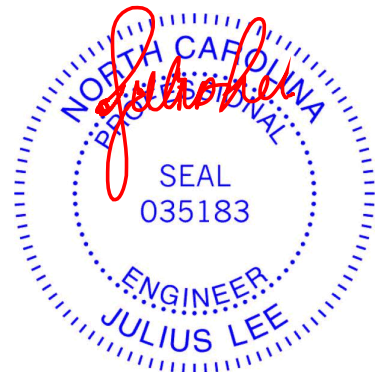
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=49(LC 12)
Max Uplift 3=23(LC 12), 2=69(LC 12), 4=11(LC 12)
Max Grav 3=96(LC 1), 2=251(LC 1), 4=68(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



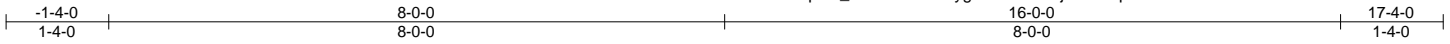
818 Soundside Road
Edenton, NC 27932

Job 22020383-01	Truss T5	Truss Type COMMON	Qty 3	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236005
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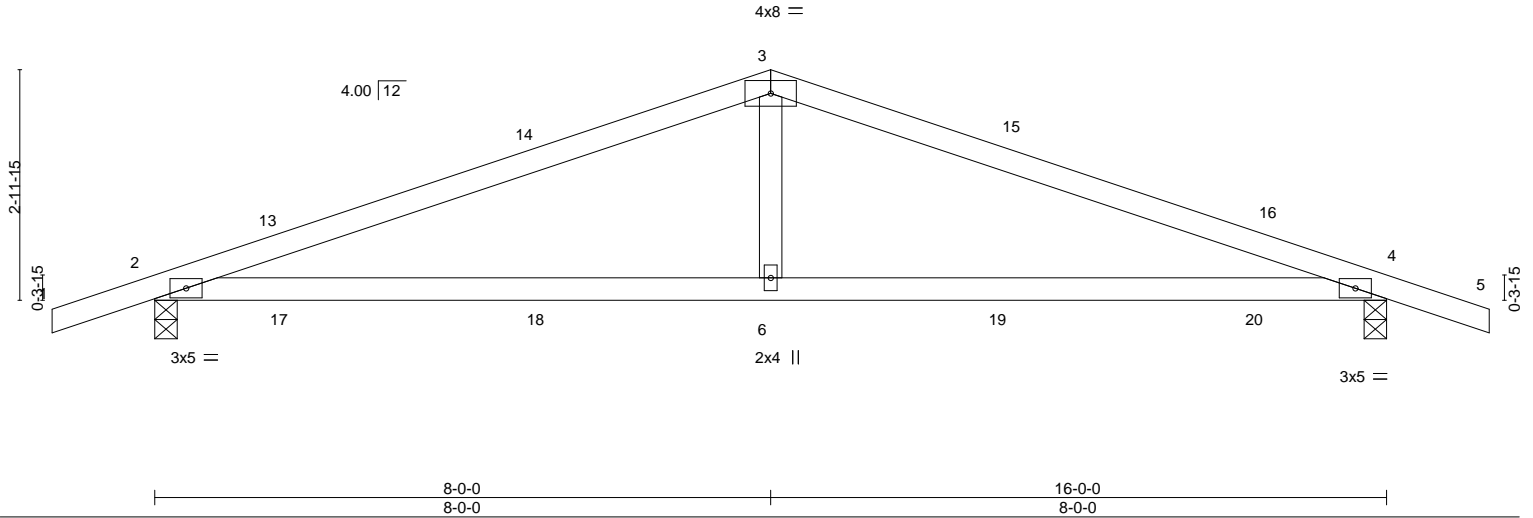
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:19 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-QxLwmj1YhroTpSavXKNc81sHwkmV0dQFtnHemzXkMA



Scale = 1:29.9



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 0.72	Vert(LL)	0.21 6-12	>920	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.24 6-9	>809	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.02 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 57 lb	FT = 20%

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

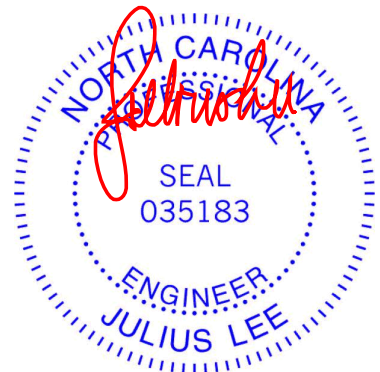
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=28(LC 11)
 Max Uplift 2=-174(LC 12), 4=-174(LC 12)
 Max Grav 2=720(LC 1), 4=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1205/982, 3-4=-1205/982
 BOT CHORD 2-6=-857/1101, 4-6=-857/1101
 WEBS 3-6=-379/359

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.
- 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.
- 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

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



818 Soundside Road
 Edenton, NC 27932

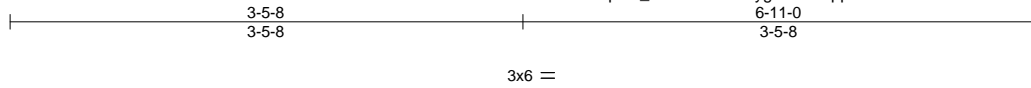
Job 22020383-01	Truss V2	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236006
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:24 2022 Page 1

ID:F7Th11J3pJM_1WbQYc5iDlygfU6-nv8ppQ5hWORmvEstKtznr5aHUIQQ9J_9P9V2J_zXkM5

6-11-0
3-5-8



Scale = 1:15.5

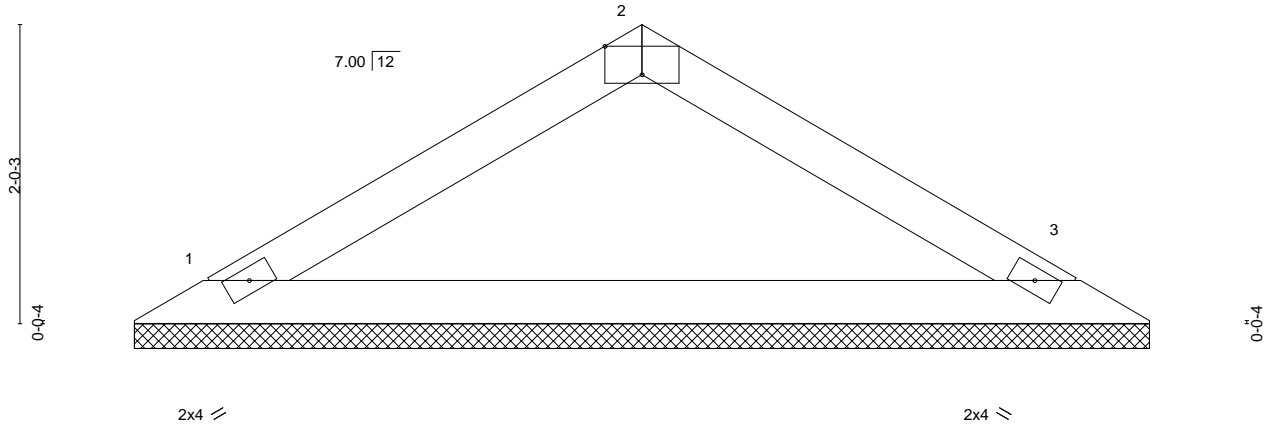


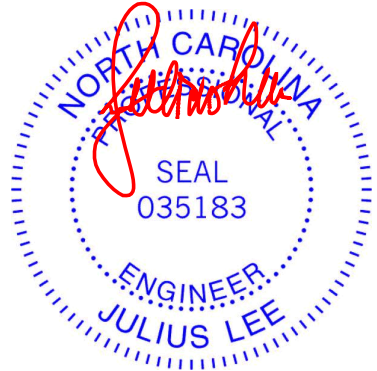
Plate Offsets (X,Y)--	[2:0-3-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 20 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-10-2, 3=6-10-2
 Max Horz 1=29(LC 10)
 Max Uplift 1=2(LC 12), 3=2(LC 12)
 Max Grav 1=233(LC 1), 3=233(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=120mph (3-second gust) Vasd=95mph; 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) 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) 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

Job 22020383-01	Truss T2A	Truss Type COMMON	Qty 3	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236007
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:17 2022 Page 1

ID:F7Th11J3pJM_1WbQYCSiDLygfU6-UZD9L1?I9EYma9QXQvL82cn29xvN1517oZIAZuzXkMC



4x5 =

Scale = 1:41.1

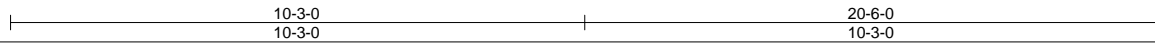
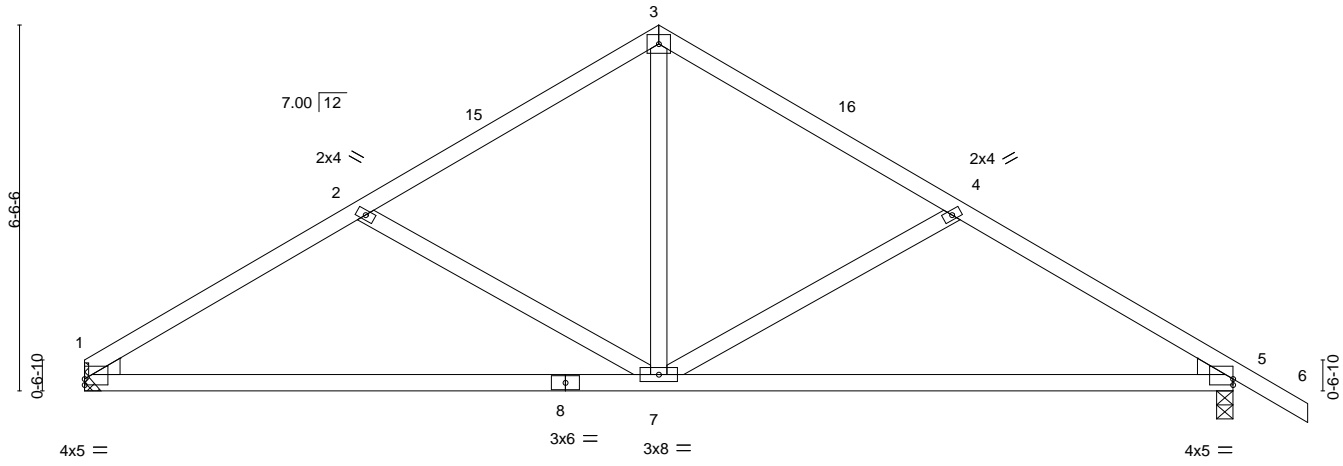


Plate Offsets (X, Y)-- [1:0-0-0,0-1-5], [5:0-0-0,0-1-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.17 7-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.34 7-11 >719 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 96 lb	FT = 20%

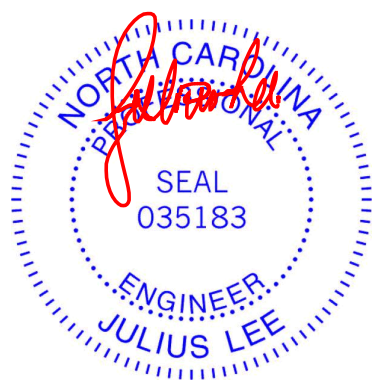
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=Mechanical, 5=0-3-8
Max Horz 1=-112(LC 10)
Max Uplift 1=-5(LC 12), 5=-41(LC 12)
Max Grav 1=817(LC 1), 5=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1219/80, 2-3=-914/66, 3-4=-913/63, 4-5=-1213/76
BOT CHORD 1-7=0/998, 5-7=0/988
WEBS 3-7=0/579, 4-7=-333/99, 2-7=-344/101

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 10-3-0, Exterior(2R) 10-3-0 to 13-3-0, Interior(1) 13-3-0 to 21-10-0 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) 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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.



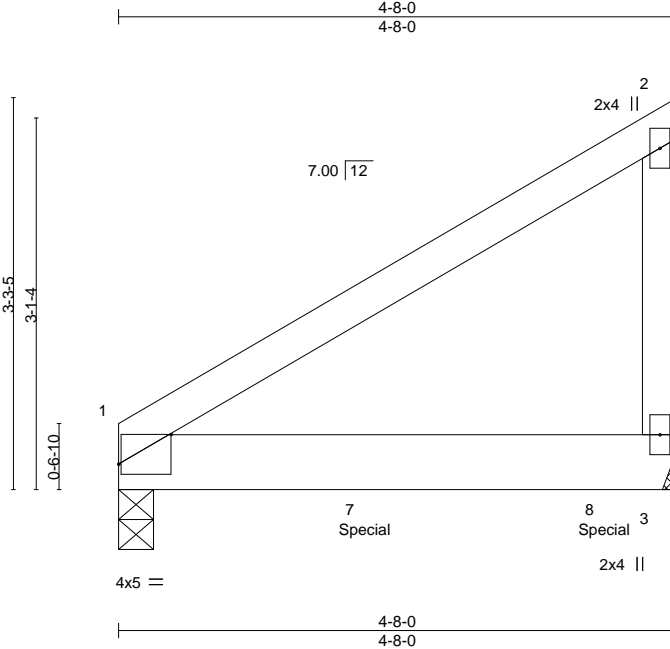
March 25, 2022

Job 22020383-01	Truss J1GR	Truss Type JACK-CLOSED GIRDER	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236008
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:58 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-XvZ_MXnNdO9SoETtoQVhncVnaGWe4YYKQ6CgOUzXkMV



Scale = 1:19.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.04 3-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.09 3-6 >622 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.01 1 n/a n/a		
	Code IRC2018/TPI2014			Weight: 23 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=Mechanical
 Max Horz 1=65(LC 8)
 Max Uplift 3=-42(LC 8)
 Max Grav 1=696(LC 1), 3=1266(LC 1)

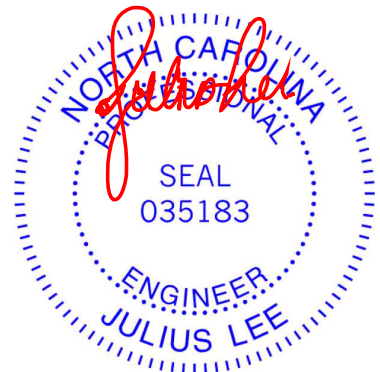
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
- 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) 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 797 lb down and 25 lb up at 2-0-12, and 803 lb down and 19 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-2=-60, 3-4=-20
 Concentrated Loads (lb)
 Vert: 7=-797(F) 8=-803(F)



March 25, 2022

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



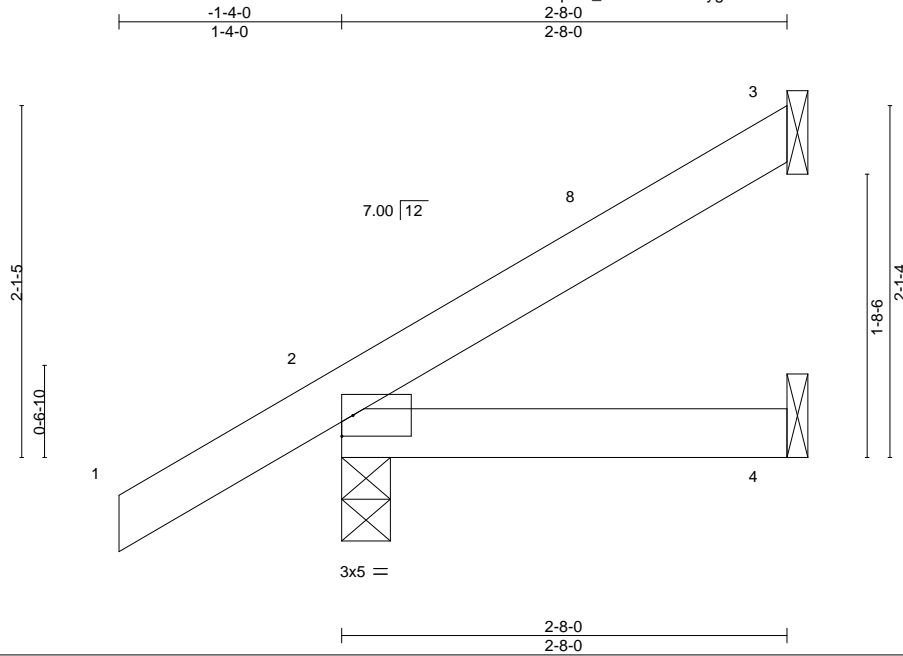
818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss J2	Truss Type Jack-Open	Qty 3	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236009
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:59 2022 Page 1

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Scale = 1:13.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	-0.00 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00 4-7	>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: 11 lb	FT = 20%

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

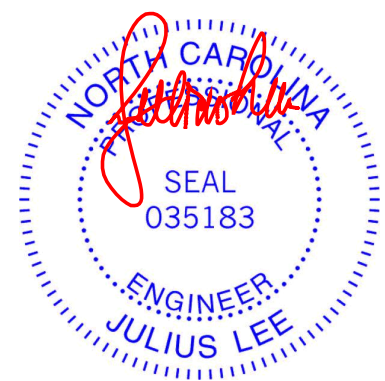
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=66(LC 12)
Max Uplift 3=-18(LC 12), 2=-30(LC 12)
Max Grav 3=60(LC 17), 2=205(LC 1), 4=46(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 2-7-4 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.



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.
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Job 22020383-01	Truss J1A	Truss Type JACK-OPEN GIRDER	Qty 3	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236010
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:58 2022 Page 1

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Job Reference (optional)

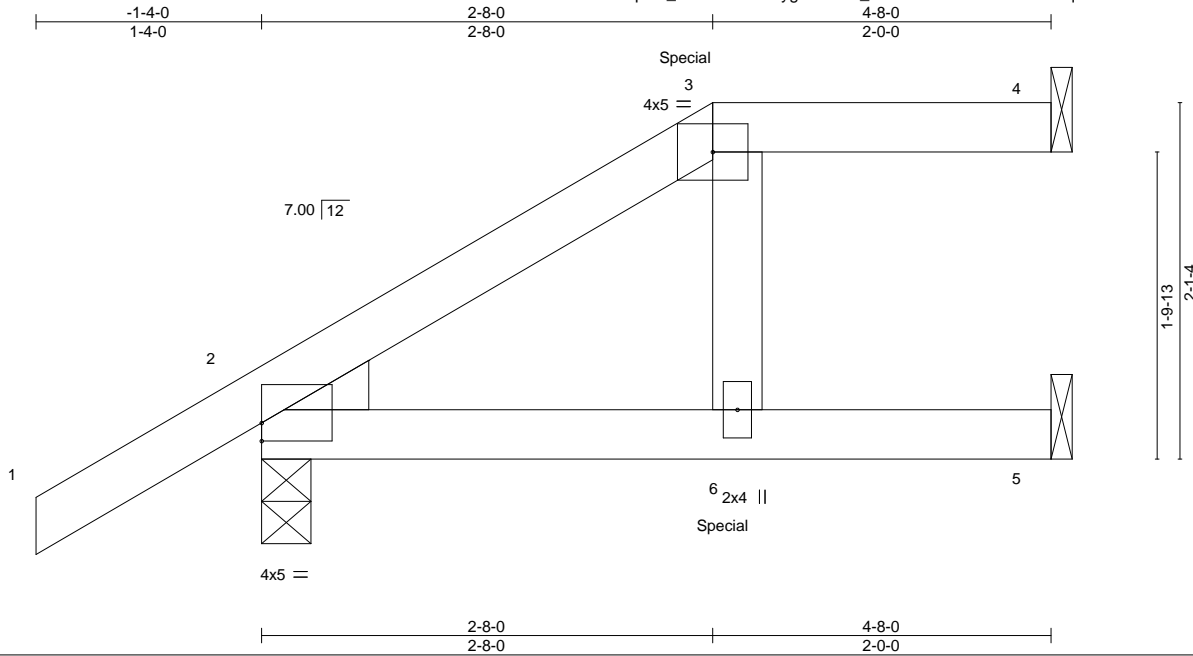


Plate Offsets (X,Y)--	[2:0-0-0,0-1-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.06 6-9 >916 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.13 6-9 >426 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT) 0.09 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 20 lb	FT = 20%

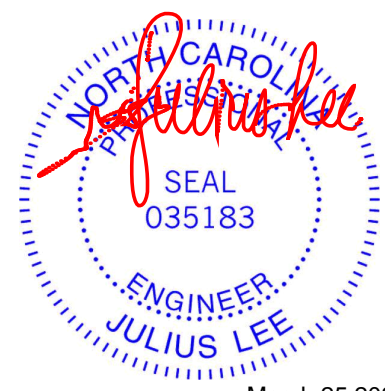
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=68(LC 8)
 Max Uplift 4=-20(LC 4), 2=-34(LC 8), 5=-7(LC 5)
 Max Grav 4=58(LC 1), 2=361(LC 1), 5=235(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-294/51

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
 - 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.
 - 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) 169 lb down and 23 lb up at 2-8-0 on top chord, and 54 lb down and 3 lb up at 2-8-0 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



March 25, 2022

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.
 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

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Job 22020383-01	Truss J1A	Truss Type JACK-OPEN GIRDER	Qty 3	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236010 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:58 2022 Page 2
ID:F7Th11J3pJM_1WbQYC5iDLygfU6-XvZ_MXnNdO9SoETtoQVhncVqAGSG4YcKQ6CgOUzXkMV

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-152(F) 6=-53(F)

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Job 22020383-01	Truss H1S	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236011
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:50 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-mM5ygoHmWx9bq?sKkMpSwANe2kRCph9atGF6yzXkMd

Job Reference (optional)

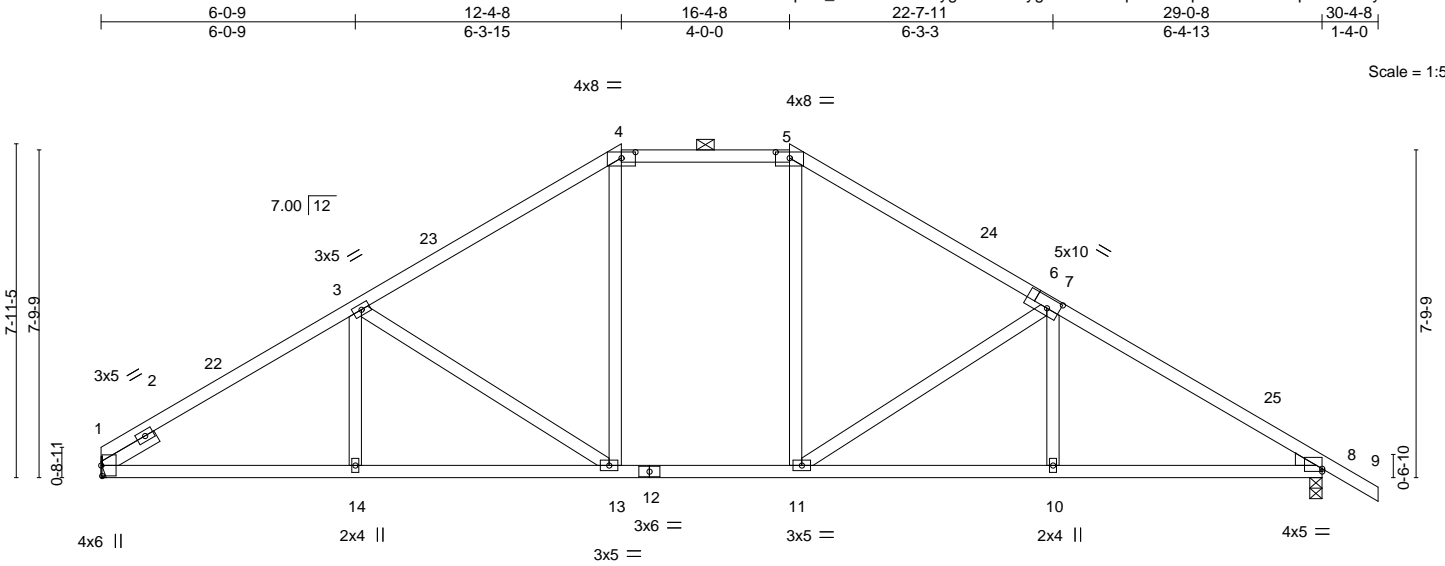


Plate Offsets (X, Y)--	[1:0-3-0,0-0-4], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-3-8,0-3-0], [8:0-0-0,0-0-13]
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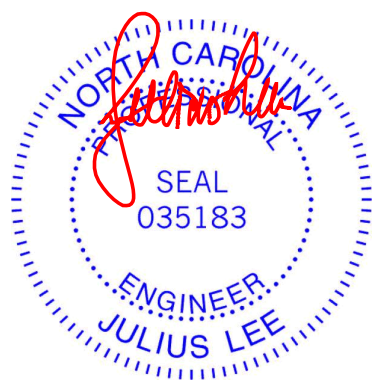
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.24	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.34	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.07	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (5-1-2 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Right: 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-6-0	

REACTIONS. (size) 1=Mechanical, 8=0-3-8
 Max Horz 1=-133(LC 10)
 Max Uplift 1=-7(LC 12), 8=-43(LC 12)
 Max Grav 1=1301(LC 17), 8=1376(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1956/45, 3-4=-1526/86, 4-5=-1247/99, 5-7=-1532/86, 7-8=-2043/39
 BOT CHORD 1-14=0/1716, 13-14=0/1716, 11-13=0/1295, 10-11=0/1678, 8-10=0/1678
 WEBS 3-13=-488/69, 4-13=0/452, 5-11=0/477, 7-11=-568/63

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 12-4-8, Exterior(2E) 12-4-8 to 16-4-8, Exterior(2R) 16-4-8 to 20-7-7, Interior(1) 20-7-7 to 30-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. 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) 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.



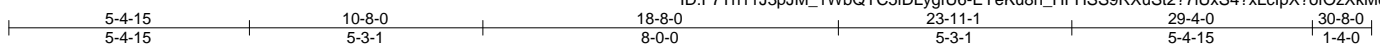
March 25, 2022

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

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Job 22020383-01	Truss H1SA	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236012
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:51 2022 Page 1
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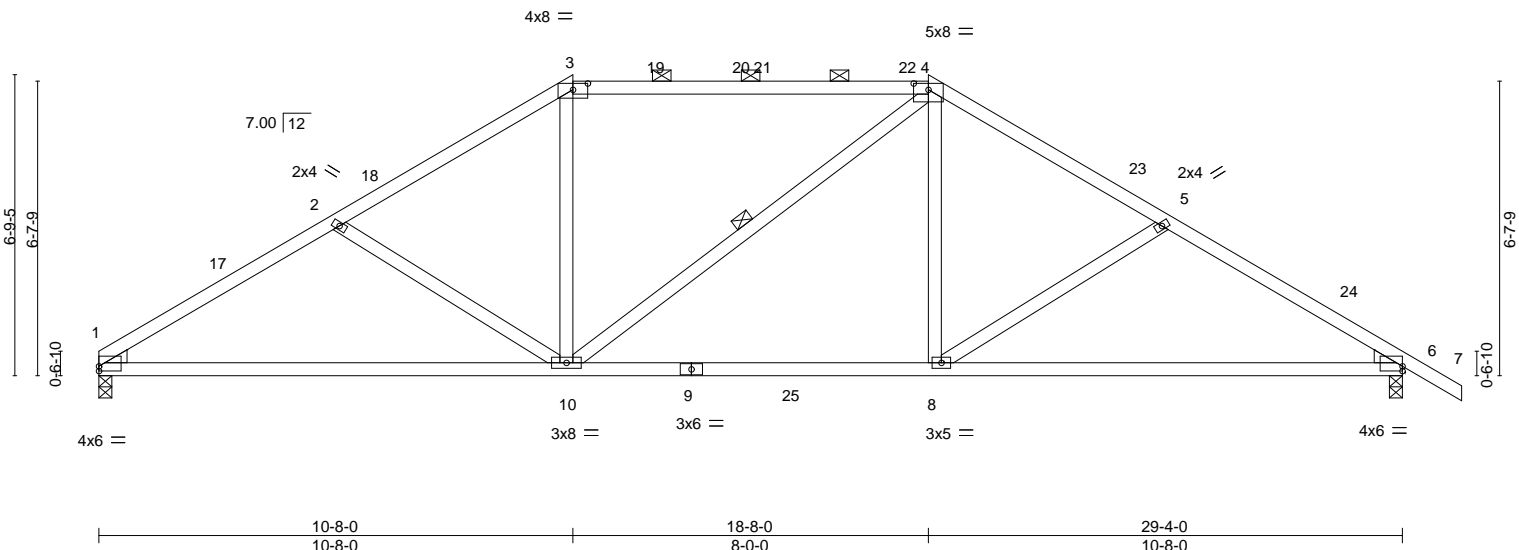


Plate Offsets (X, Y)--	[1:0-0-0,0-1-5], [3:0-4-0,0-1-11], [4:0-4-0,0-1-11], [6:0-0-0,0-1-5]
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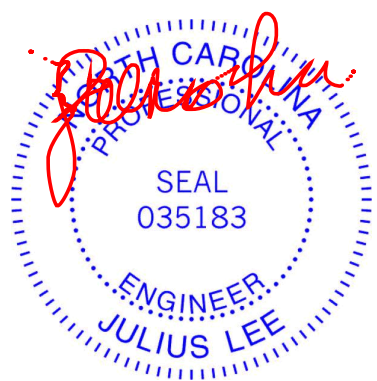
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.21 8-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.43 10-13 >814 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-4-13 max.): 3-4.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 4-10: 2x4 SP No.2	WEBS 1 Row at midpt 4-10
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (size) 1=0-3-8, 6=0-3-8
 Max Horz 1=-114(LC 10)
 Max Uplift 1=-8(LC 12), 6=-43(LC 12)
 Max Grav 1=1304(LC 17), 6=1386(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1994/73, 2-3=-1732/62, 3-4=-1451/81, 4-5=-1744/60, 5-6=-2001/68
 BOT CHORD 1-10=0/1747, 8-10=0/1463, 6-8=0/1662
 WEBS 2-10=-284/92, 3-10=0/476, 4-8=0/509, 5-8=-274/87

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 10-8-0, Exterior(2R) 10-8-0 to 14-10-15, Interior(1) 14-10-15 to 18-8-0, Exterior(2R) 18-8-0 to 22-10-15, Interior(1) 22-10-15 to 30-8-0 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - 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.



March 25, 2022

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Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss
22020383-01	H1SB	Hip	1	1	T27236013

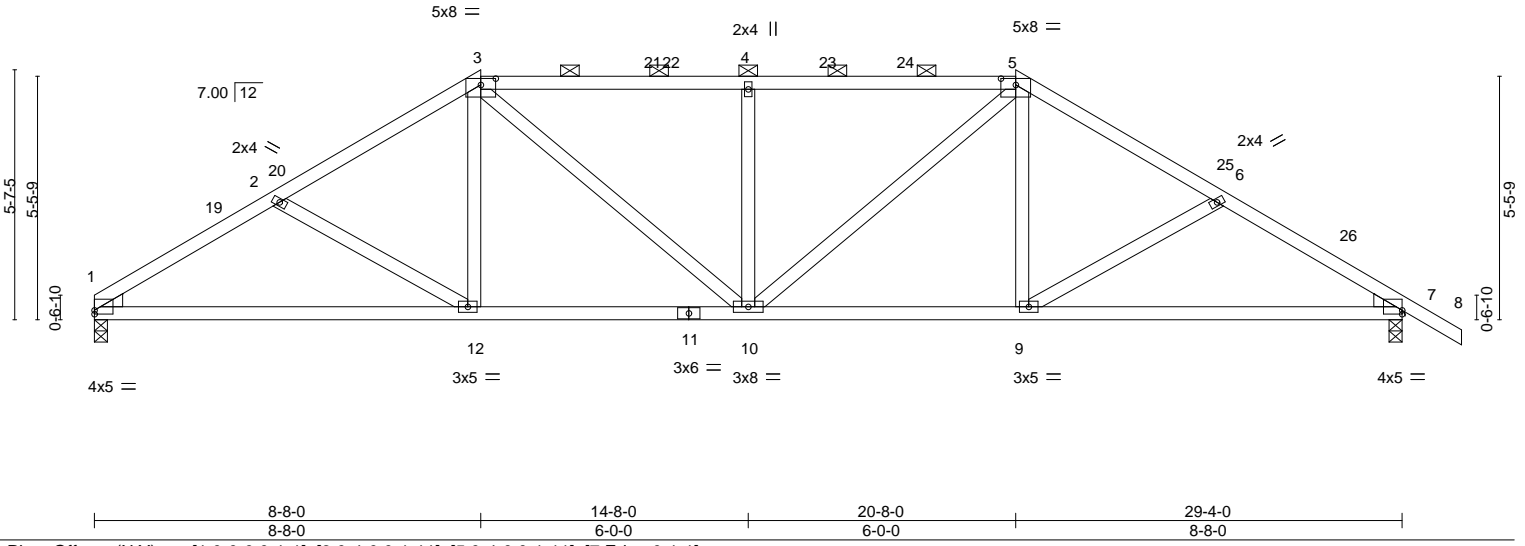
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:53 2022 Page 1

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Scale = 1:51.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(LL) -0.10 12-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.22 12-15 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 155 lb	FT = 20%

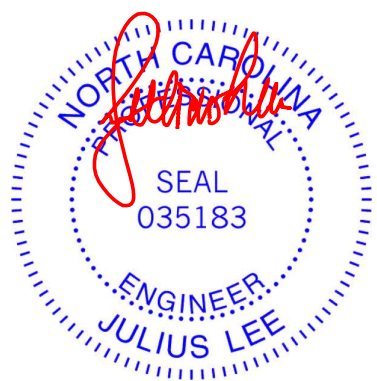
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-15 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 7=0-3-8
 Max Horz 1=-95(LC 10)
 Max Uplift 1=-8(LC 12), 7=-43(LC 12)
 Max Grav 1=1172(LC 1), 7=1255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1892/63, 2-3=-1682/51, 3-4=-1709/77, 4-5=-1709/77, 5-6=-1675/48, 6-7=-1878/56
 BOT CHORD 1-12=0/1569, 10-12=0/1404, 9-10=0/1399, 7-9=0/1552
 WEBS 3-12=0/335, 3-10=-13/485, 4-10=-420/80, 5-10=-16/489, 5-9=0/332

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 8-8-0, Exterior(2R) 8-8-0 to 12-10-15, Interior(1) 12-10-15 to 20-8-0, Exterior(2R) 20-8-0 to 24-10-15, Interior(1) 24-10-15 to 30-8-0 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) 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) 1 and 7. 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.



March 25, 2022

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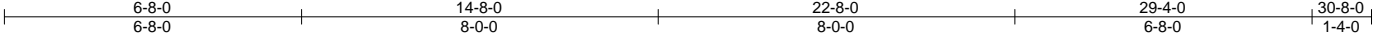
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Job 22020383-01	Truss H1SC	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236014
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:54 2022 Page 1

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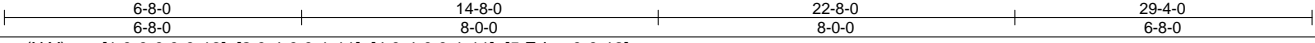
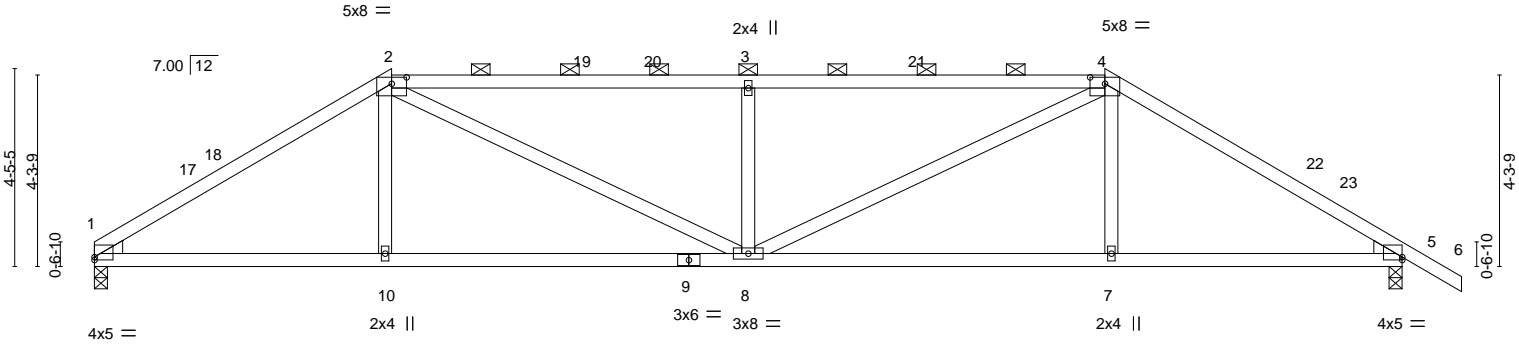


Plate Offsets (X,Y)-- [1:0-0-0,0-0-13], [2:0-4-0,0-1-11], [4:0-4-0,0-1-11], [5:Edge,0-0-13]

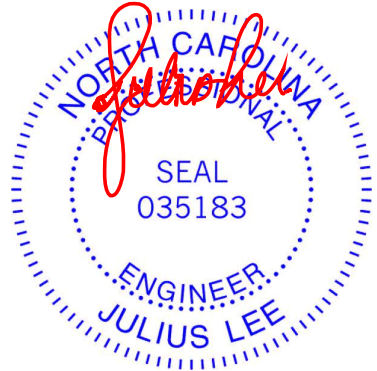
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.12	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.29	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.07	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 137 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-0-3 max.): 2-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-75(LC 10)
 Max Uplift 1=-8(LC 12), 5=-43(LC 12)
 Max Grav 1=1172(LC 1), 5=1255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1891/35, 2-3=-2266/61, 3-4=-2266/61, 4-5=-1882/31
 BOT CHORD 1-10=0/1552, 8-10=0/1547, 7-8=0/1537, 5-7=0/1542
 WEBS 2-10=0/286, 2-8=0/895, 3-8=-568/106, 4-8=-6/901, 4-7=0/284

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 6-8-0, Exterior(2R) 6-8-0 to 10-10-15, Interior(1) 10-10-15 to 22-8-0, Exterior(2R) 22-8-0 to 26-10-15, Interior(1) 26-10-15 to 30-8-0 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) 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) 1 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.



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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss H1GRA	Truss Type Roof Special Girder	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236015
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:49 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-IXaTSgkld0kDrH8n1rawid6ceRNTFF?MDWhaVzXkMe

Job Reference (optional)



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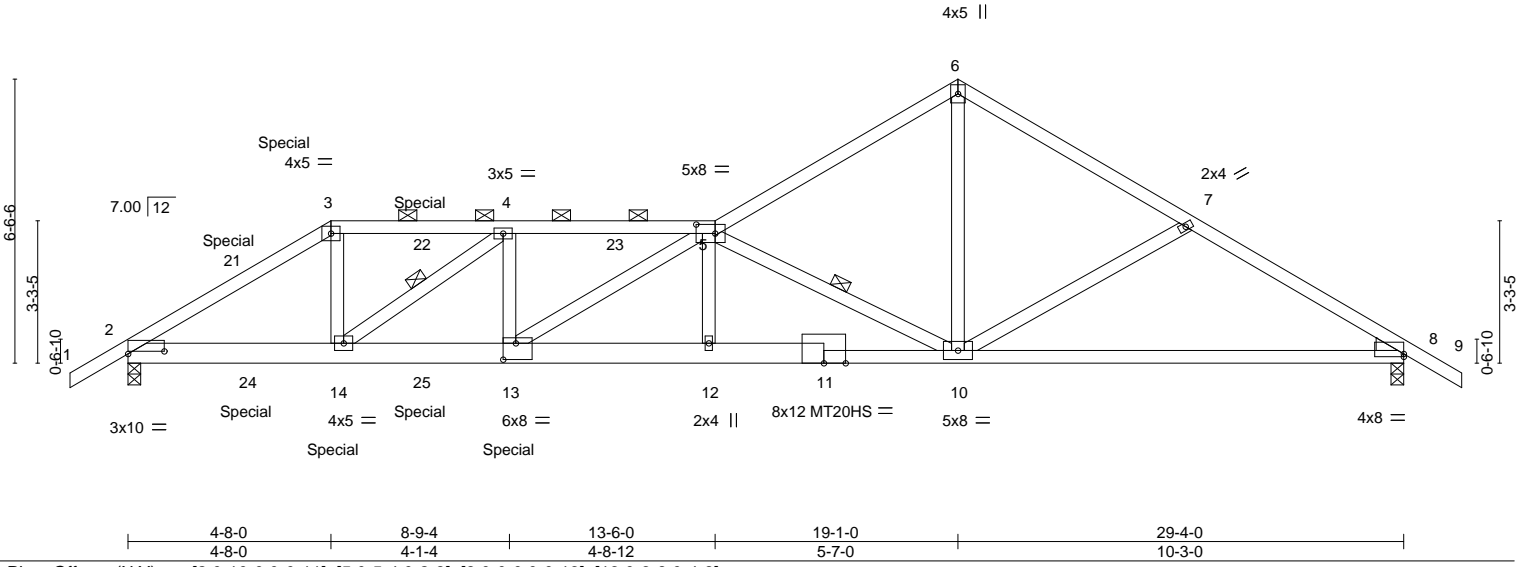


Plate Offsets (X, Y)--	[2:0-10-0,0-0-11], [5:0-5-4,0-2-8], [8:0-0-0,0-0-13], [13:0-3-8,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.25 12-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.48 12-13 >728 180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Horz(CT) 0.10 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			
				Weight: 164 lb	FT = 20%

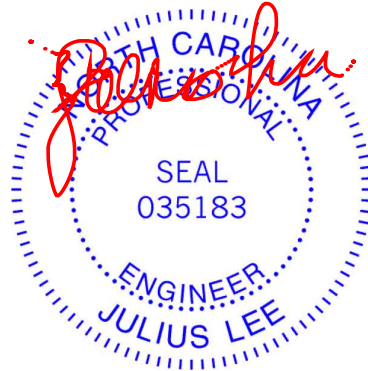
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-1 max.): 3-5.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 8-11: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 5-10
WEDGE Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-115(LC 25)
 Max Uplift 2=-119(LC 8), 8=-64(LC 8)
 Max Grav 2=2471(LC 1), 8=1682(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4006/148, 3-4=-3474/145, 4-5=-5501/198, 5-6=-2373/95, 6-7=-2376/96,
 7-8=-2649/109
 BOT CHORD 2-14=-50/3389, 13-14=-102/5501, 12-13=-80/5208, 10-12=-82/5204, 8-10=-11/2211
 WEBS 3-14=0/1683, 4-14=-2512/66, 4-13=0/1172, 5-13=-421/526, 5-10=-3649/170,
 6-10=-8/1963, 7-10=-303/113

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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; 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 40 lb up at 2-8-12, and 100 lb down and 61 lb up at 4-8-0, and 100 lb down and 58 lb up at 6-8-12 on top chord, and 215 lb down and 27 lb up at 2-8-12, 44 lb down at 4-8-12, and 44 lb down at 6-8-12, and 1246 lb down and 62 lb up at 8-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of the user.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



March 25, 2022

Continued on page 2

LOAD CASE(S) Standard

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

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss H1GRA	Truss Type Roof Special Girder	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236015 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:49 2022 Page 2
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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, 5-6=-60, 6-9=-60, 15-18=-20

Concentrated Loads (lb)

Vert: 3=-60(F) 14=-32(F) 13=-1246(F) 22=-60(F) 24=-215(F) 25=-32(F)

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818 Soundside Road
Edenton, NC 27932

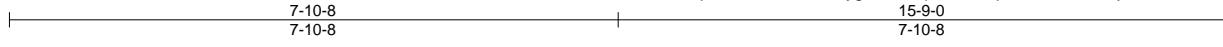
Job 22020383-01	Truss V3A	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236016
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:27 2022 Page 1

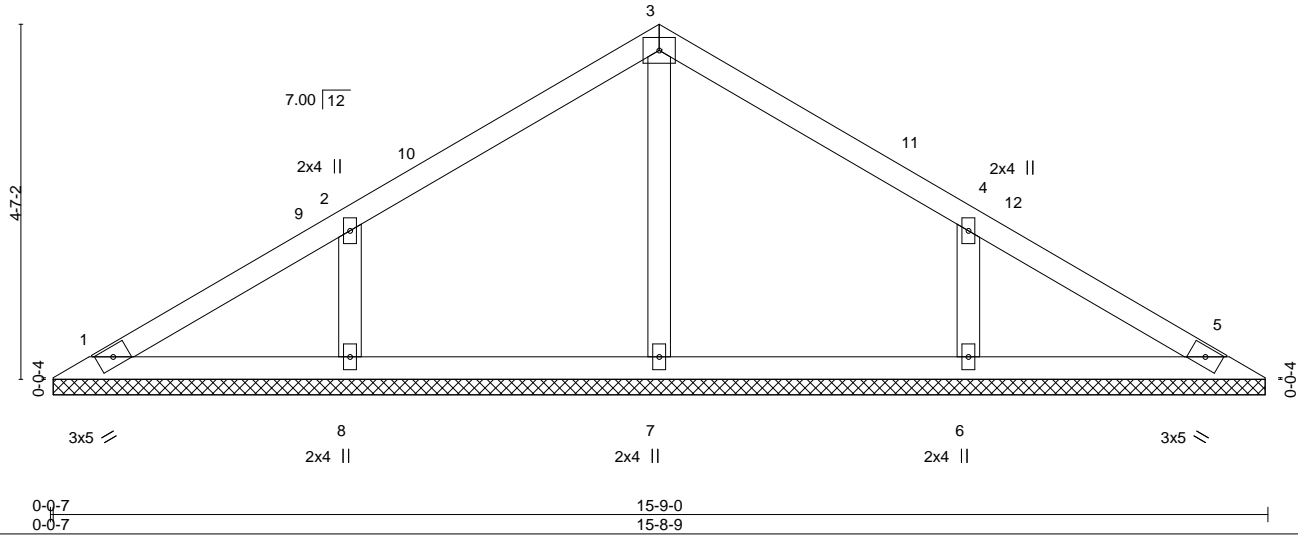
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Job Reference (optional)



4x5 =

Scale = 1:29.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 60 lb	FT = 20%

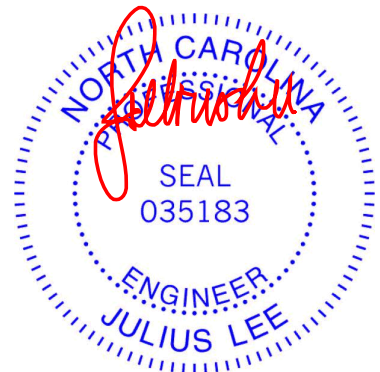
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-8-2.
 (lb) - Max Horz 1=73(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=262(LC 1), 8=347(LC 23), 6=347(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-262/107, 4-6=-262/107

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-10-8, Exterior(2R) 7-10-8 to 10-10-8, Interior(1) 10-10-8 to 15-2-8 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - N/A
 - 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

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



818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss V3	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236017
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:26 2022 Page 1

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Job Reference (optional)

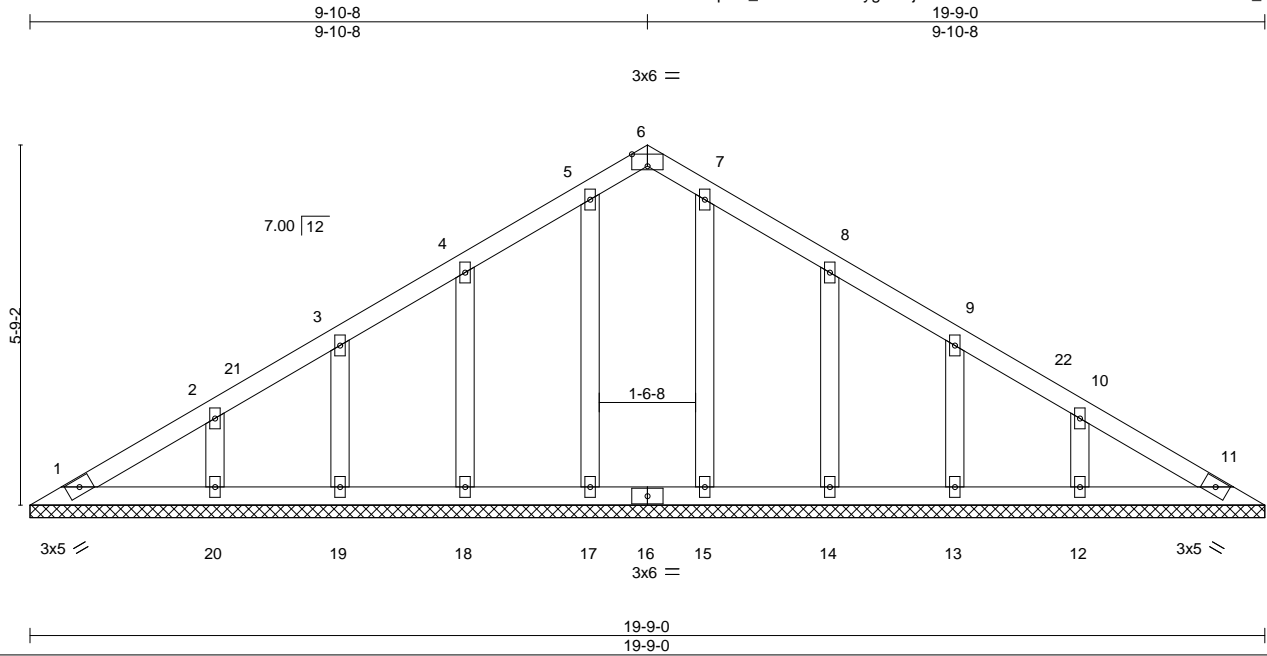


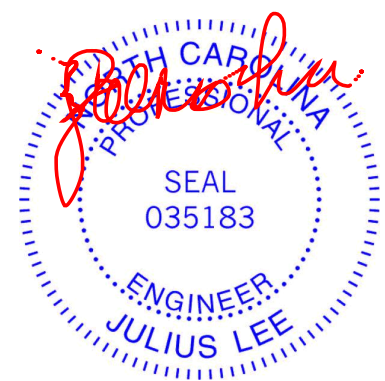
Plate Offsets (X,Y)--	[6:0-3-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.07	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.04	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.05	Horz(CT) 0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 97 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3			

REACTIONS. All bearings 19-9-0.
 (lb) - Max Horz 1=93(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 20, 14, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 17, 18, 19, 20, 15, 14, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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) 0-6-8 to 3-6-8, Exterior(2N) 3-6-8 to 9-10-8, Corner(3R) 9-10-8 to 12-9-8, Exterior(2N) 12-9-8 to 19-2-8 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - N/A
 - 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.



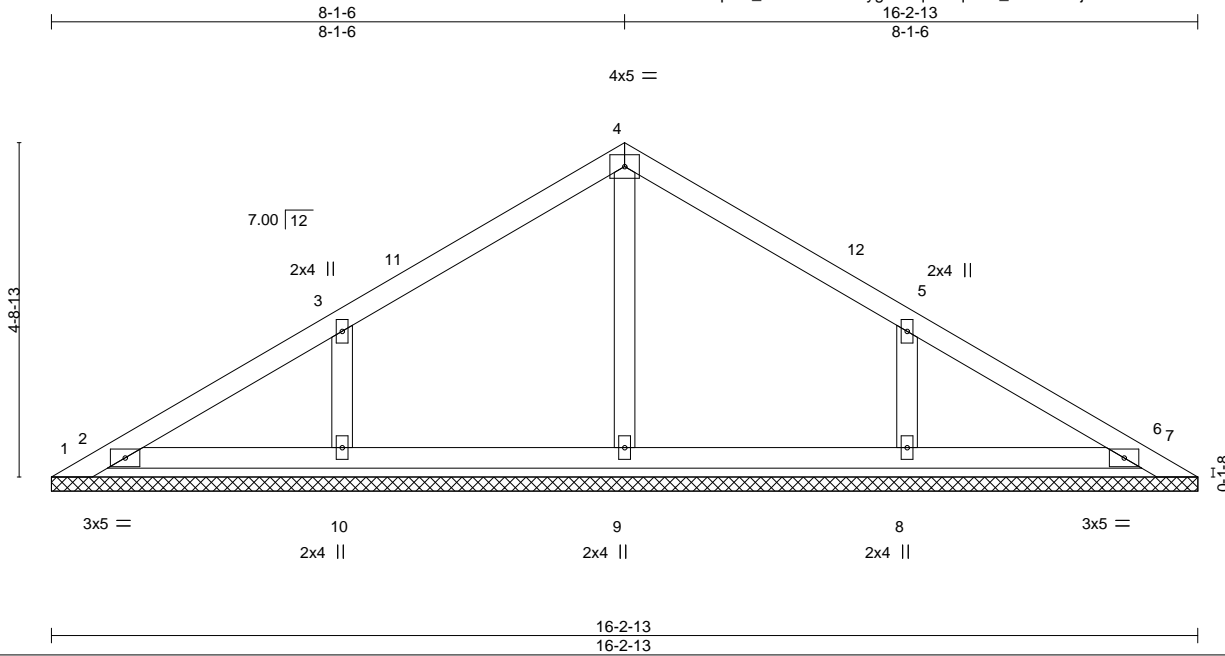
March 25, 2022

Job 22020383-01	Truss PB1	Truss Type GABLE	Qty 4	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236018
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:05 2022 Page 1

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Scale = 1:32.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 61 lb	FT = 20%

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

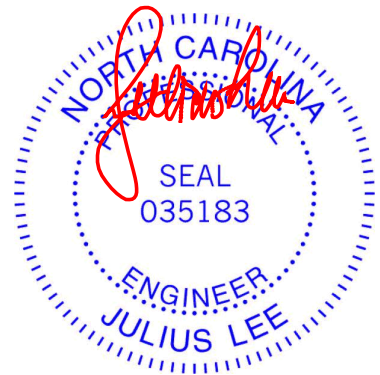
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-2-13.
 (lb) - Max Horz 1=78(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=269(LC 1), 10=329(LC 23), 8=329(LC 24)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=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 8-1-6, Exterior(2R) 8-1-6 to 11-1-6, Interior(1) 11-1-6 to 15-11-5 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
- 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.



March 25, 2022

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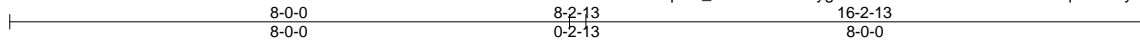
Job 22020383-01	Truss PB1A	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236019
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:06 2022 Page 1

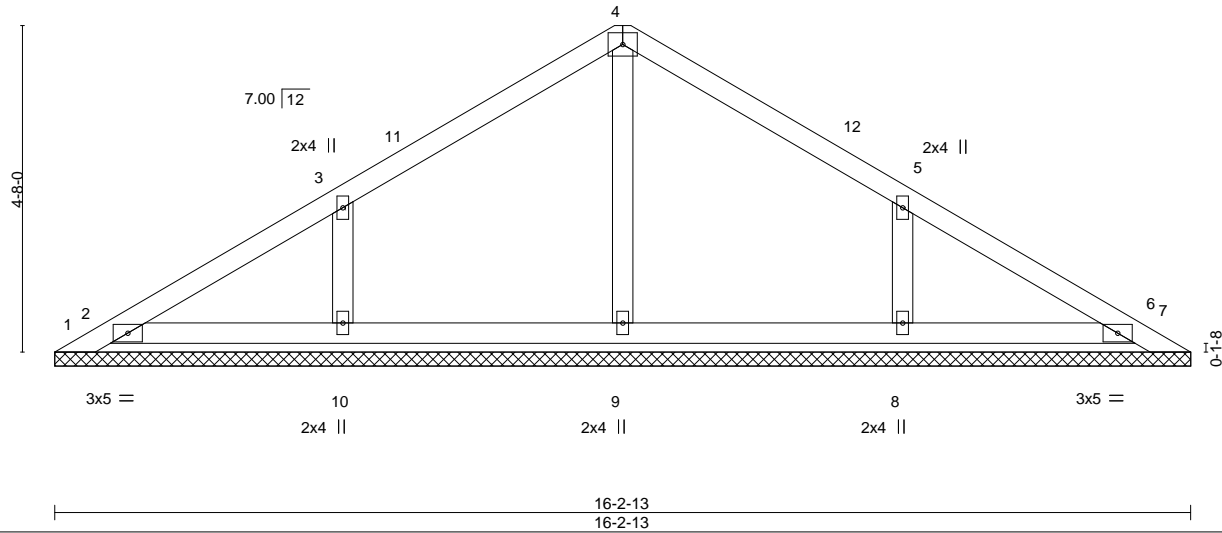
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Job Reference (optional)



4x5 =

Scale = 1:32.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 61 lb	FT = 20%
	Code IRC2018/TPI2014							

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

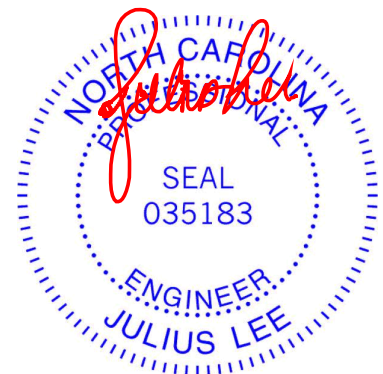
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-2-13.
 (lb) - Max Horz 1=78(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=269(LC 1), 10=329(LC 23), 8=329(LC 24)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 8-1-6, Exterior(2R) 8-1-6 to 11-1-6, Interior(1) 11-1-6 to 15-11-5 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
- 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.



March 25, 2022

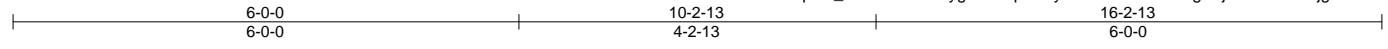
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/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 22020383-01	Truss PB1B	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236020
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:08 2022 Page 1
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Scale = 1:27.3

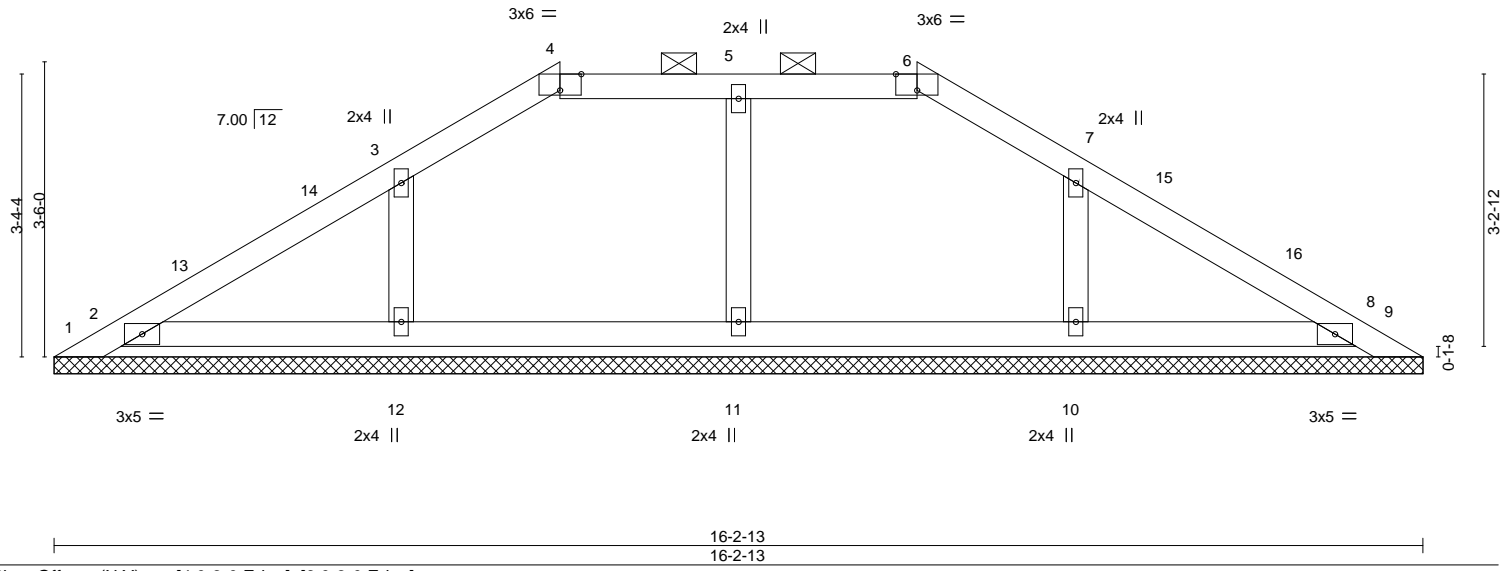


Plate Offsets (X, Y)--	[4:0-3-0,Edge], [6:0-3-0,Edge]
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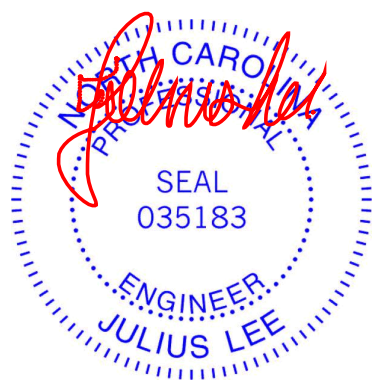
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 58 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing 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 16-2-13.
 (lb) - Max Horz 1=55(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 11, 12, 10 except 1=102(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=314(LC 1), 8=314(LC 1), 11=265(LC 1), 12=273(LC 23), 10=273(LC 24)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 6-0-0, Exterior(2E) 6-0-0 to 10-2-13, Exterior(2R) 10-2-13 to 14-5-11, Interior(1) 14-5-11 to 15-11-5 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.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=102.
 - 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.



March 25, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020383-01	Truss PB1D	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236022
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Carter Components (Lexington), Lexington, NC - 27295,

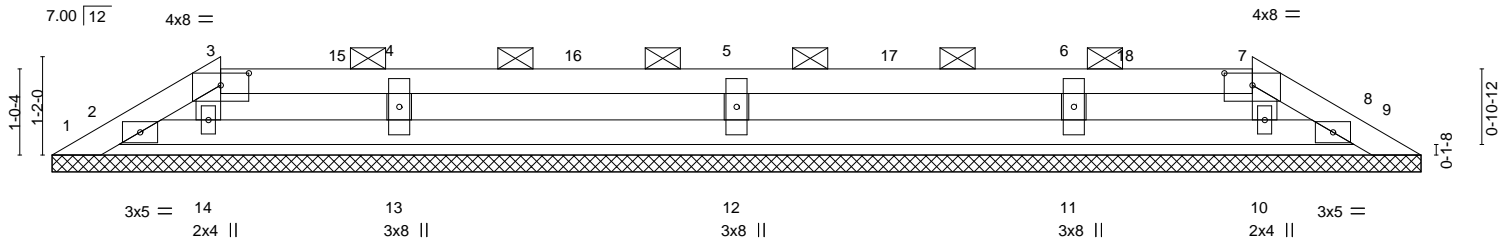
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:11 2022 Page 1

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Job Reference (optional)

16-2-13
16-2-13

Scale = 1:27.3



16-2-13
16-2-13

Plate Offsets (X, Y)-- [3:0-4-0,0-1-11], [7:0-4-0,0-1-11]

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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 49 lb	FT = 20%

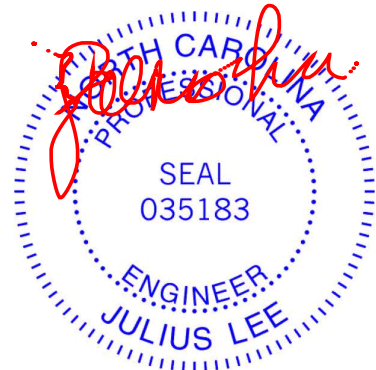
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 16-2-13.
(lb) - Max Horz 1=16(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 12, 11, 13
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 14, 10 except 12=340(LC 1), 11=270(LC 23), 13=271(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-12=-255/86

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 2-0-0, Exterior(2R) 2-0-0 to 6-2-14, Interior(1) 6-2-14 to 14-2-13, Exterior(2E) 14-2-13 to 15-11-5 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.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - 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.



March 25, 2022

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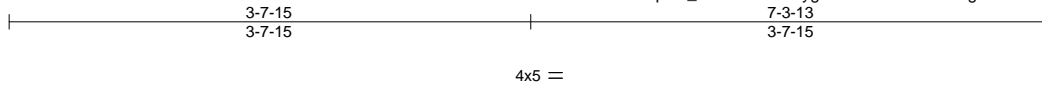
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 22020383-01	Truss V1C	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236023
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:23 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-liaQb443i4JvI4tgmASYIt16NL9cQsE0AVIvNzXxkM6



Scale = 1:16.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 24 lb	FT = 20%
	Code IRC2018/TPI2014							

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

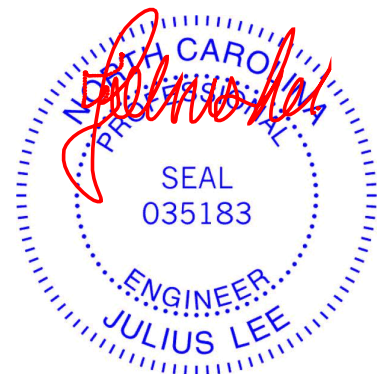
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-2-15, 3=7-2-15, 4=7-2-15
 Max Horz 1=31(LC 10)
 Max Uplift 1=13(LC 12), 3=13(LC 12)
 Max Grav 1=130(LC 1), 3=130(LC 1), 4=238(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=120mph (3-second gust) Vasd=95mph; 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) 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) 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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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

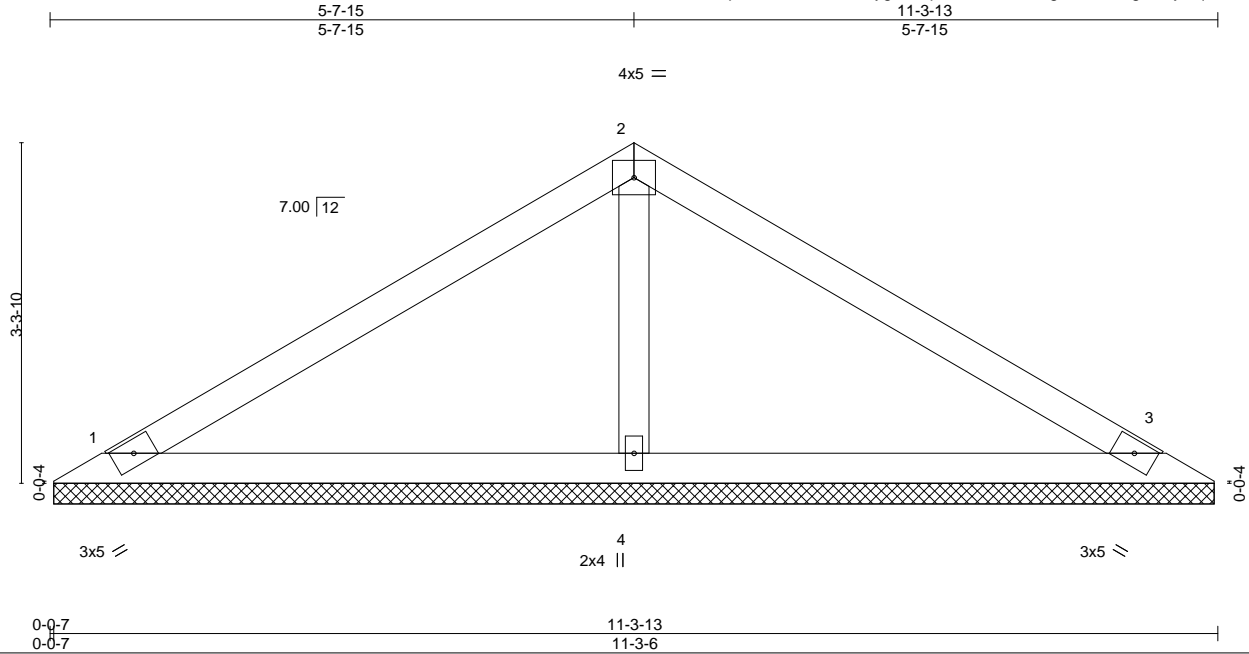
Job 22020383-01	Truss V1B	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236024
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:22 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-qW02OI3R_mB2gwlUCSxJlgUuXymqiOPsxr0xF5zXkM7

Job Reference (optional)



Scale = 1:22.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 38 lb	FT = 20%

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

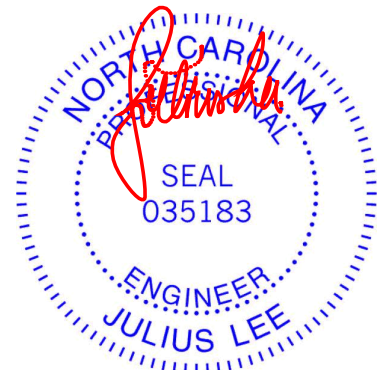
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=11-2-15, 3=11-2-15, 4=11-2-15
 Max Horz 1=51(LC 10)
 Max Uplift 1=13(LC 12), 3=13(LC 12)
 Max Grav 1=194(LC 1), 3=194(LC 1), 4=431(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-281/82

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 5-7-15, Exterior(2R) 5-7-15 to 8-7-15, Interior(1) 8-7-15 to 10-9-5 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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

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

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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

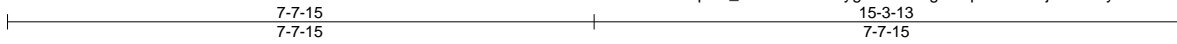
Job 22020383-01	Truss V1A	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236025
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Carter Components (Lexington), Lexington, NC - 27295,

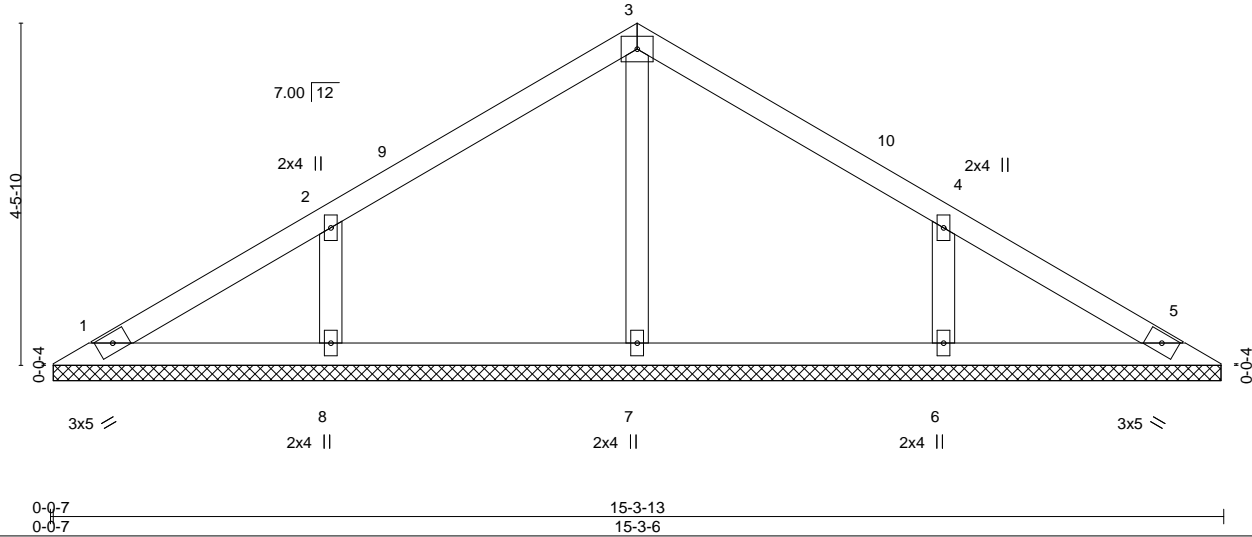
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:21 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-MKSgBP3pDT2B2mjflIP4DSymmYTxzxAjjBGOifzXkM8

Job Reference (optional)



Scale = 1:30.1



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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 58 lb	FT = 20%

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

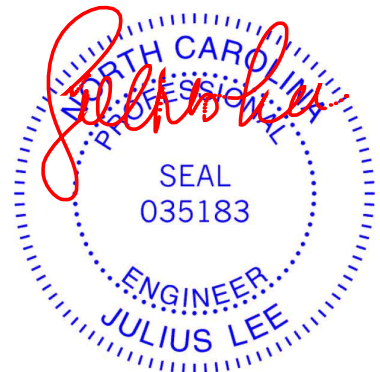
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-2-15.
 (lb) - Max Horz 1=71(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 1), 8=337(LC 23), 6=337(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-255/107, 4-6=-255/107

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=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 3-7-15, Interior(1) 3-7-15 to 7-7-15, Exterior(2R) 7-7-15 to 10-7-15, Interior(1) 10-7-15 to 14-9-5 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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

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



818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss V1	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236026
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:20 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-u7vlz32BS9wKRc8551urgFPYd86uEUIZUXxqACzXkM9

19-3-13
9-7-15



4x5 =

Scale = 1:38.0

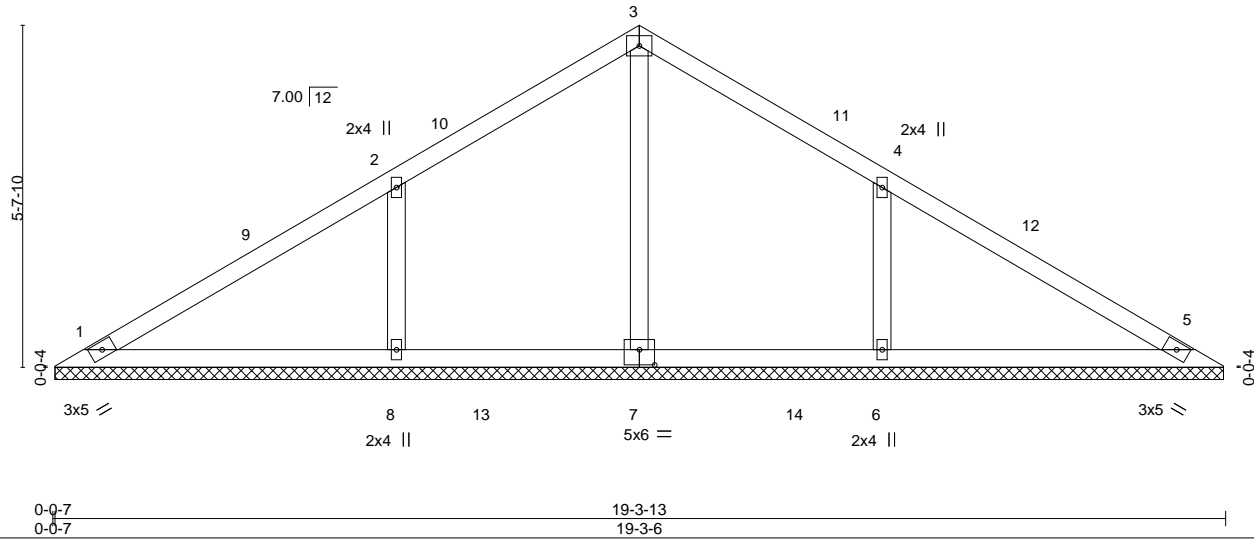


Plate Offsets (X, Y)--	[7:0-3-0,0-3-0]
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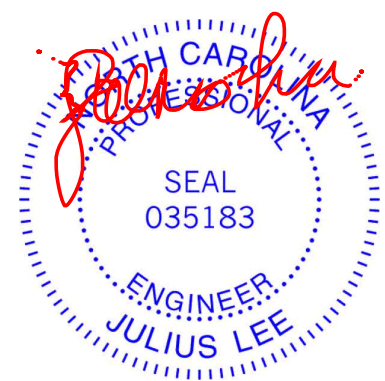
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 76 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-2-15.
 (lb) - Max Horz 1=90(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=304(LC 17), 8=535(LC 17), 6=534(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-331/119, 4-6=-331/119

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 9-7-15, Exterior(2R) 9-7-15 to 12-7-15, Interior(1) 12-7-15 to 18-9-5 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, with BCDL = 10.0psf.
 - 6) N/A
 - 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.



March 25, 2022

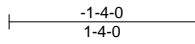
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020383-01	Truss M1	Truss Type MONOPICH	Qty 10	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236027
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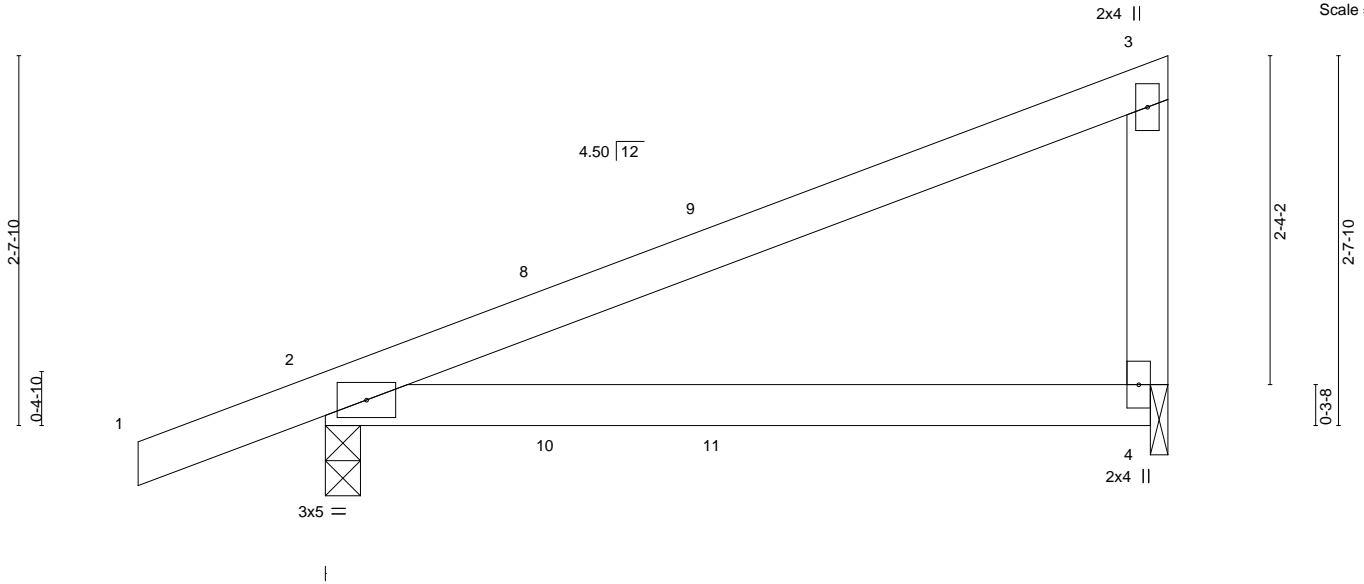
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:02 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-QgpUBvquhdfuHrme1FadySfRKuwp0MXwLkAtXFzXkMR



Scale = 1:16.4



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 0.46	Vert(LL)	0.13 4-7	>559	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.11 4-7	>665	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 24 lb	FT = 20%

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

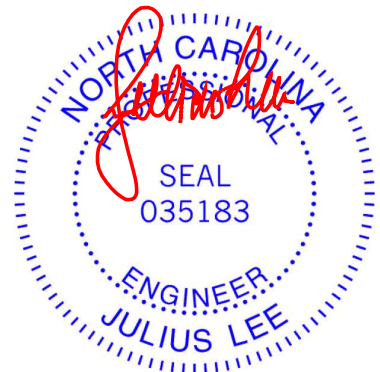
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-1-8
 Max Horz 2=72(LC 12)
 Max Uplift 2=78(LC 12), 4=-58(LC 12)
 Max Grav 2=323(LC 1), 4=225(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 5-10-4 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) 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.
- 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

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



818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss M1G	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236028
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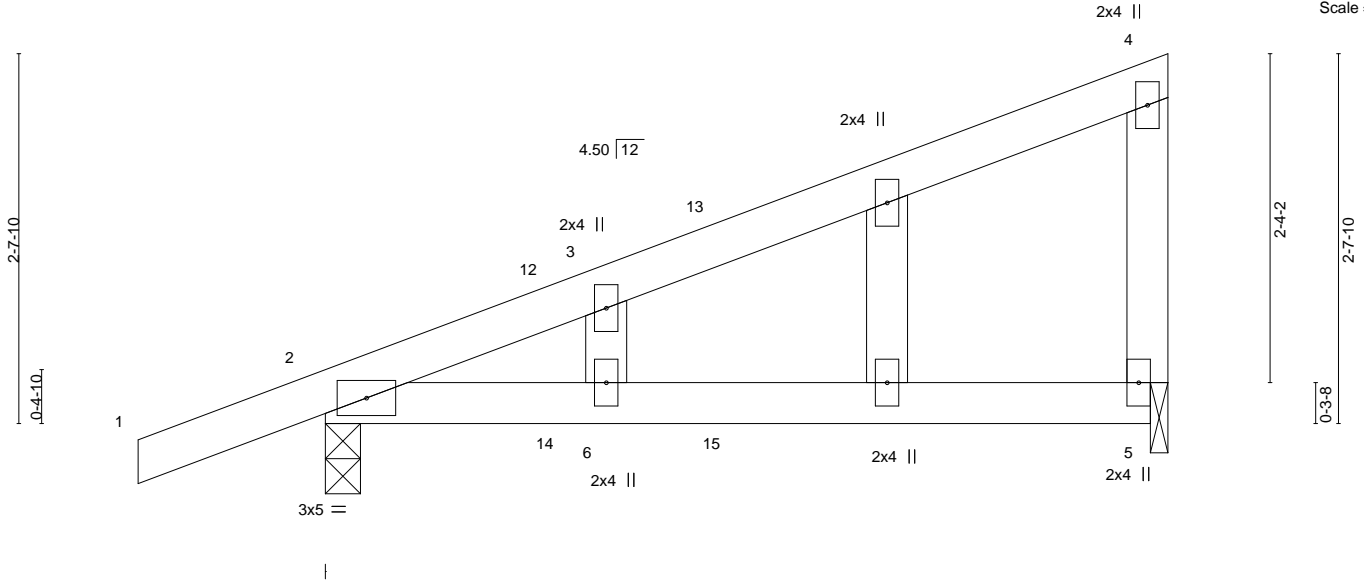
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:03 2022 Page 1

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Scale = 1:16.4



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 0.40	Vert(LL)	0.13 5-6	>543	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.12 5-6	>576	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	-0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 26 lb	FT = 20%

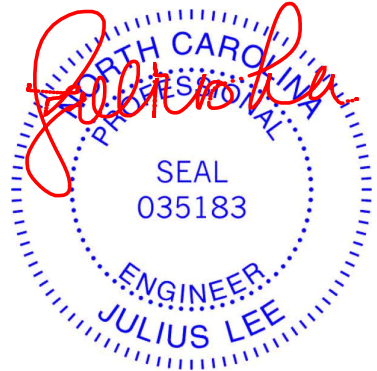
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-0, 5=0-1-8
 Max Horz 2=72(LC 12)
 Max Uplift 2=-78(LC 12), 5=-58(LC 12)
 Max Grav 2=323(LC 1), 5=225(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 5-10-4 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 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) 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

Job 22020383-01	Truss V3C	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236029
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Carter Components (Lexington), Lexington, NC - 27295,

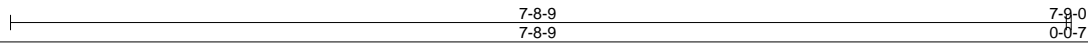
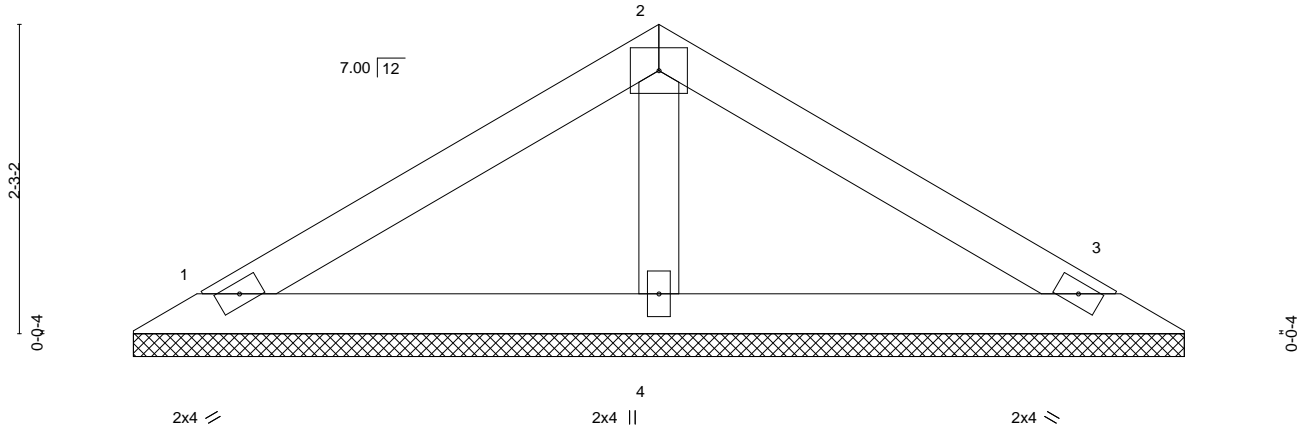
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:28 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-fgNjfo8CZcxCOmeZj1j?xkygMsZ57QIKnTFSizXkM1



4x5 =

Scale = 1:16.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 25 lb	FT = 20%
	Code IRC2018/TPI2014							

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

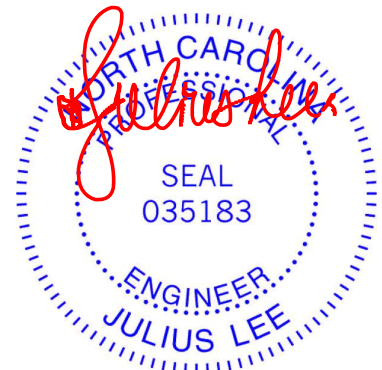
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-8-2, 3=7-8-2, 4=7-8-2
 Max Horz 1=-33(LC 10)
 Max Uplift 1=-14(LC 12), 3=-14(LC 12)
 Max Grav 1=139(LC 1), 3=139(LC 1), 4=255(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=120mph (3-second gust) Vasd=95mph; 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.
- 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.



March 25, 2022

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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

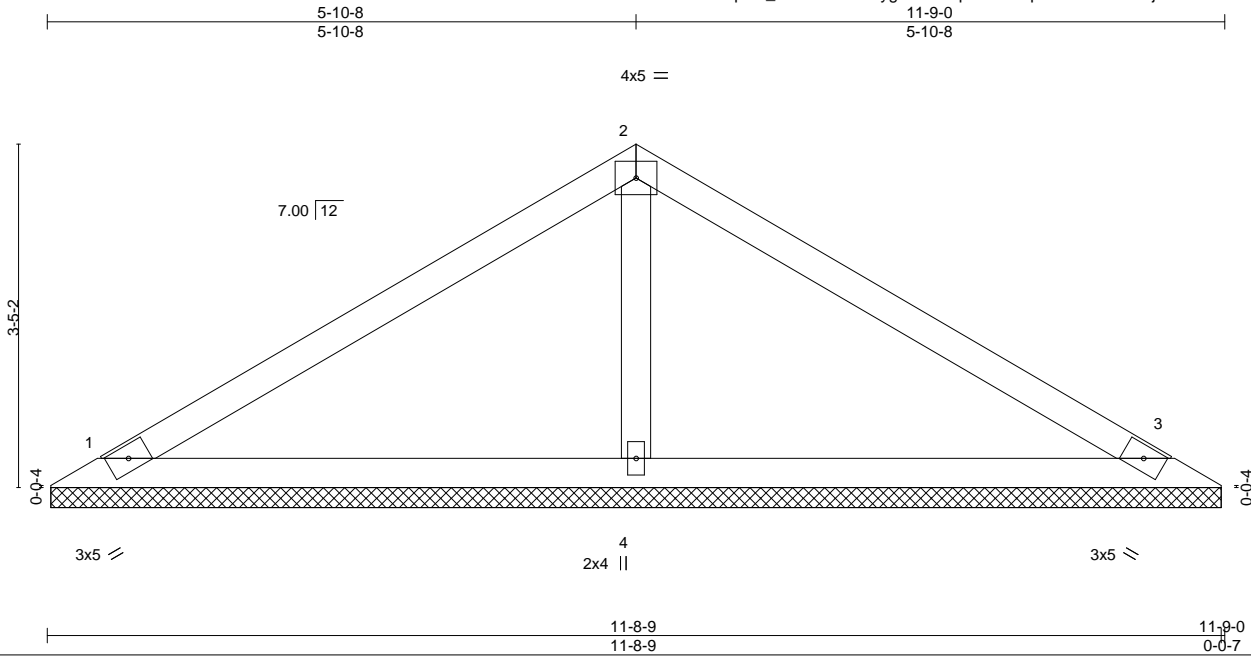
Job 22020383-01	Truss V3B	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236030
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:27 2022 Page 1

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Job Reference (optional)



Scale = 1:23.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 40 lb	FT = 20%
	Code IRC2018/TPI2014							

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

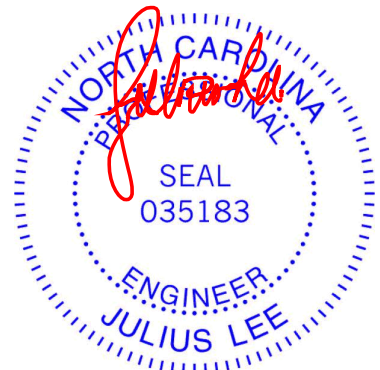
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=11-8-2, 3=11-8-2, 4=11-8-2
 Max Horz 1=53(LC 11)
 Max Uplift 1=13(LC 12), 3=13(LC 12)
 Max Grav 1=202(LC 1), 3=202(LC 1), 4=449(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-292/82

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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

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

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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



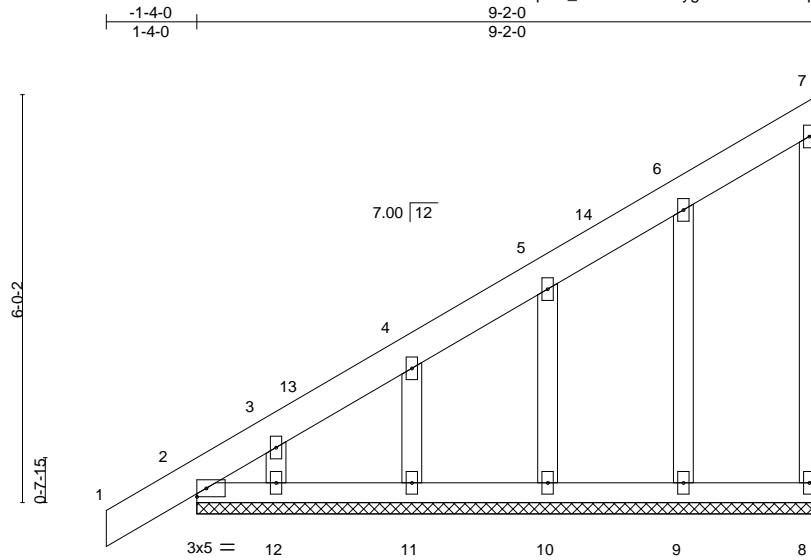
818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss A1GA	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236031
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:38 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-72MQ9iXqLFeIO9x1dD8?zOgOkCoAOWqOq?MchezXkMp



Scale = 1:33.9

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 0.31	Vert(LL)	0.00	1	n/r	MT20	244/190
BCLL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 64 lb	FT = 20%

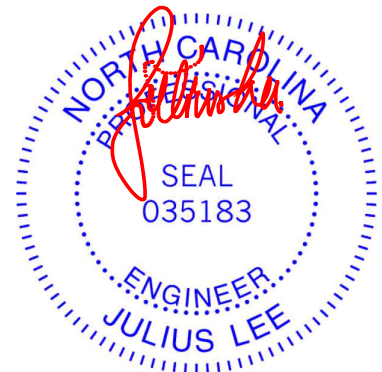
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-2-0.
 (lb) - Max Horz 2=171(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11, 12
 Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-375/233, 3-4=-301/204

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 9-0-4 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) 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.



March 25, 2022

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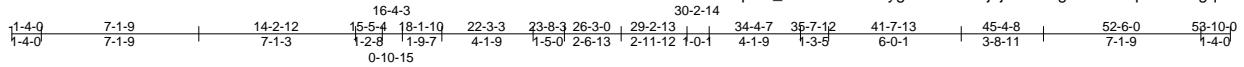
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss
22020383-01	A1S	ATTIC	2	1	T27236302

Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:41 2022 Page 1

ID:F7Th11J3pJM_1WbQYCSiDLygfU6-Xd2YnjajeA0tFdcgJLhib0lq5QdabdqgWzaGizzXkMm
30-2-14



Scale = 1:104.3

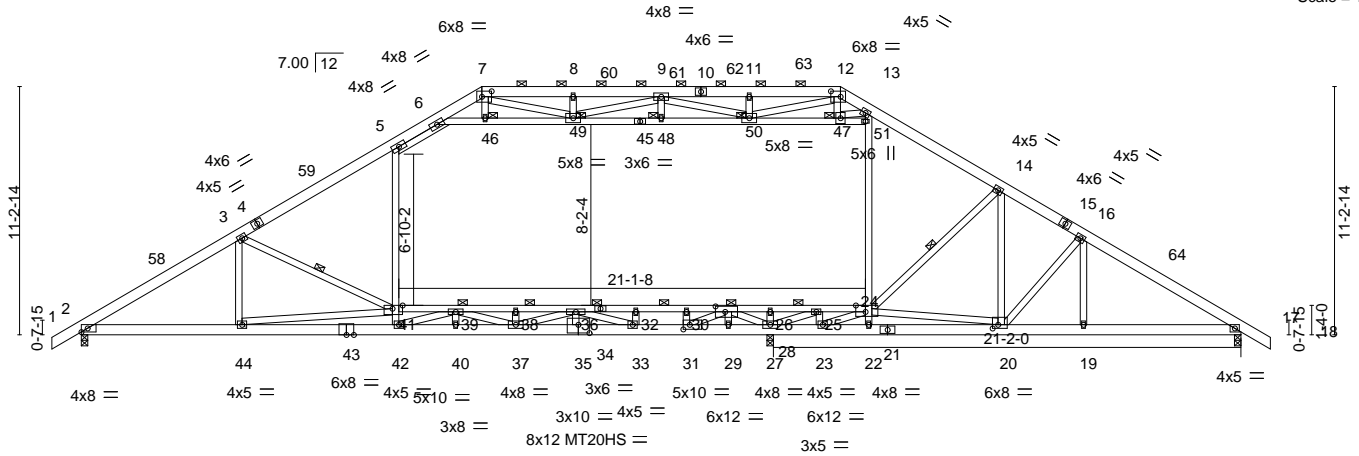


Plate Offsets (X, Y)--	[7:0-5-4,0-3-0], [12:0-5-4,0-3-0], [20:0-3-0,0-2-0], [24:0-5-4,Edge], [28:0-5-4,0-3-0], [31:0-3-8,0-2-8], [35:0-6-0,0-4-8], [41:0-5-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(LL) -0.47 38-39 >791 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Vert(CT) -0.90 39 >415 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.10 17 n/a n/a		
			Attic -0.32 24-41 808 360	Weight: 492 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-7,12-15: 2x6 SP 2400F 2.0E, 5-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-10-14 max.): 7-12.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 24-34,34-41: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied. Except: 3-3-0 oc bracing: 24-41
WEBS 2x4 SP No.3 *Except* 5-42,6-45,13-22,41-44,28-31,27-28,25-27,23-24,45-51: 2x4 SP No.2 20-24: 2x4 SP No.1	WEBS 1 Row at midpt 3-41, 14-24
	JOINTS 1 Brace at Jt(s): 46, 47, 48, 49, 50

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 27=0-3-8
 Max Horz 2=181(LC 11)
 Max Grav 2=2630(LC 18), 17=2124(LC 19), 27=1661(LC 27)

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

TOP CHORD	BOT CHORD	WEBS
2-3=-4534/0, 3-5=-3793/0, 5-6=-3085/0, 6-7=-1156/110, 7-8=-1966/275, 8-9=-1966/275, 9-11=-2102/186, 11-12=-2102/186, 12-13=-1220/55, 13-14=-3569/0, 14-16=-3310/0, 16-17=-3570/0	2-44=0/3978, 42-44=0/4651, 40-42=0/5638, 37-40=0/5638, 35-37=0/5554, 33-35=0/5585, 31-33=0/3602, 29-31=-118/625, 27-29=-118/625, 23-27=-1886/0, 22-23=-2081/779, 20-22=-1871/863, 19-20=0/3022, 17-19=0/3022, 39-41=-1535/0, 38-39=-3202/0, 36-38=-3202/0, 32-36=-1068/589, 30-32=-1068/589, 28-30=-1068/589, 26-28=0/4157, 25-26=0/4157, 24-25=0/4661	3-44=0/323, 41-42=0/666, 5-41=0/1133, 6-46=-2464/0, 46-49=-2438/0, 48-49=-1161/511, 48-50=-1163/511, 47-50=-2341/0, 47-51=-375/0, 22-24=0/462, 24-51=0/1024, 13-51=0/1046, 14-20=-541/144, 16-20=-375/34, 7-46=0/311, 12-47=0/438, 7-49=-164/1159, 9-49=-1028/0, 9-50=-774/0, 12-50=-156/1233, 41-44=-684/0, 3-41=-870/3, 20-24=0/4279, 14-24=-281/588, 30-31=-455/0, 26-27=-324/0, 23-25=-535/204, 28-29=-808/0, 28-31=0/3553, 27-28=-1899/0, 25-27=-628/803, 23-24=-927/394, 37-38=-274/0, 35-36=0/310, 39-42=-1524/0, 37-39=-71/702, 36-37=-30/608, 33-36=-2158/0, 13-47=-2070/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=53ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-11-0, Interior(1) 3-11-0 to 18-1-10, Exterior(2R) 18-1-10 to 25-6-11, Interior(1) 25-6-11 to 34-4-7, Exterior(2R) 34-4-7 to 41-7-13, Interior(1) 41-7-13 to 53-10-0 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
- Continued on page 2
 This design has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



March 25, 2022

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ENGINEERING BY TRESCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss A1S	Truss Type ATTIC	Qty 2	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236032 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:41 2022 Page 2
ID:F7Th11J3pJM_1WbQYC5iDLygfU6-Xd2YnjajeA0tFdgcJLhib0lq5QdabdqgWzaGizzXkMm

NOTES-

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-46, 46-49, 48-49, 48-50, 47-50, 47-51; Wall dead load (7.0psf) on member(s).5-41, 24-51
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 39-41, 38-39, 36-38, 32-36, 30-32, 28-30, 26-28, 25-26, 24-25
- 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) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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

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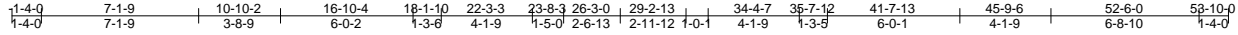


818 Soundside Road
Edenton, NC 27932

Job 22020383-01	Truss A1	Truss Type ATTIC	Qty 6	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236033
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:22 2022 Page 1



Scale = 1:104.5

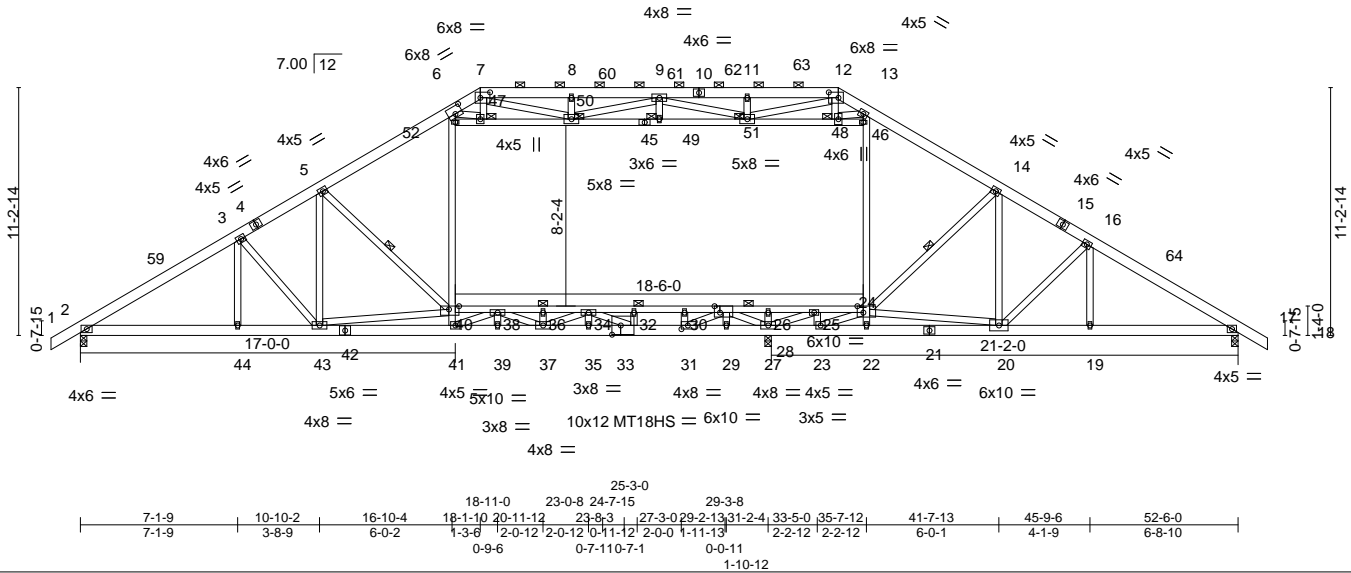


Plate Offsets (X,Y)-- [6:0-4-0,0-4-0], [7:0-5-4,0-3-0], [12:0-5-4,0-3-0], [24:0-3-4,Edge], [28:0-3-0,Edge], [31:0-3-8,0-2-0], [33:0-4-12,0-5-0], [40:0-5-8,Edge]

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 0.30	Vert(LL)	-0.29	38	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.57	38-40	>659	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.09	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Attic	-0.20	24-40	1139		

Weight: 498 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-7,12-15: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-10 max.): 7-12.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 28-40,24-28: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied. Except: 4-4-0 oc bracing: 32-40 5-9-0 oc bracing: 24-32
WEBS 2x4 SP No.3 *Except* 6-41,13-22,40-43,20-24,28-31,27-28: 2x4 SP No.2	WEBS 1 Row at midpt 5-40, 14-24
	JOINTS 1 Brace at Jt(s): 47, 48, 49, 50, 51, 32

REACTIONS. (size) 2=0-3-8, 27=0-3-8, 17=0-3-8
 Max Horz 2=197(LC 11)
 Max Grav 2=2464(LC 18), 27=1626(LC 27), 17=2069(LC 19)

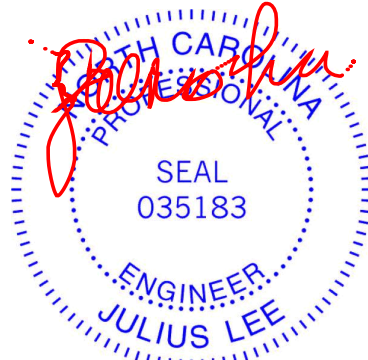
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4115/0, 3-5=-3911/0, 5-6=-3430/0, 6-7=-2037/0, 7-8=-2772/38, 8-9=-2772/38, 9-11=-2399/126, 11-12=-2399/126, 12-13=-1305/22, 13-14=-3279/0, 14-16=-3211/0, 16-17=-3461/0

BOT CHORD 2-44=0/3596, 43-44=0/3596, 41-43=0/3663, 39-41=0/4345, 37-39=0/4345, 35-37=0/4478, 33-35=0/4478, 31-33=0/3312, 29-31=-130/953, 27-29=-130/953, 23-27=-751/225, 22-23=-766/1248, 20-22=-604/1312, 19-20=0/2933, 17-19=0/2933, 38-40=-930/32, 36-38=-1984/0, 34-36=-1984/0, 32-34=-994/554, 30-32=-996/605, 28-30=-996/605, 26-28=0/3299, 25-26=0/3299, 24-25=0/3409

WEBS 5-43=0/410, 40-41=0/594, 40-52=0/1113, 6-52=0/1059, 47-50=-898/0, 49-50=-270/984, 49-51=-273/984, 48-51=-1925/0, 46-48=-325/0, 22-24=0/367, 24-46=0/783, 13-46=0/798, 14-20=-317/223, 16-20=-341/51, 7-47=0/345, 12-48=0/372, 7-50=-210/1175, 9-50=-423/57, 9-51=-936/0, 12-51=-118/1465, 40-43=-325/37, 5-40=-717/46, 20-24=0/2984, 14-24=-383/355, 26-27=-323/0, 30-31=-480/0, 28-29=-628/0, 28-31=0/2765, 27-28=-1529/0, 23-25=-354/308, 25-27=-873/377, 23-24=-1126/112, 34-35=0/394, 38-41=-1073/29, 37-38=-63/654, 34-37=-84/442, 33-34=-1389/0, 13-48=-1687/0, 6-47=-1147/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=53ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-11-0, Interior(1) 3-11-0 to 18-1-10, Exterior(2R) 18-1-10 to 25-6-11, Interior(1) 25-6-11 to 34-4-7, Exterior(2R) 34-4-7 to 41-7-13, Interior(1) 41-7-13 to 53-10-0 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Continued on page 2



March 25, 2022

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ENGINEERING BY TRENGO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss A1	Truss Type ATTIC	Qty 6	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236033 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:22 2022 Page 2
ID:F7Th11J3pJM_1WbQYC5iDLygfU6-bzONoDL06KdZTijhssFK0?fsmA5e2Z18WUm8azXkN3

NOTES-

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 47-52, 47-50, 49-50, 49-51, 48-51, 46-48; Wall dead load (7.0psf) on member(s).40-52, 24-46
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 38-40, 36-38, 34-36, 32-34, 30-32, 28-30, 26-28, 25-26, 24-25
- 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) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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

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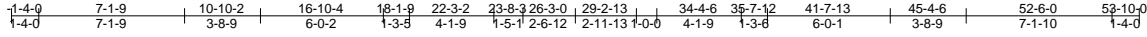
818 Soundside Road
Edenton, NC 27932

Job 22020383-01	Truss A1A	Truss Type ATTIC	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236034
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:25 2022 Page 1

ID:F7Th11J3pJM_1WbQYc5iDLygfU6-?Y4VQFNhPF?8K9RXN_Pyyed9RzB9rQDTrUiQlvzXkN0



Scale = 1:112.7

Plate Offsets (X,Y)--	[6:0-4-0,0-4-0], [7:0-3-0,0-2-5], [12:0-3-0,0-2-5], [24:0-3-4,Edge], [28:0-3-0,Edge], [31:0-3-8,0-2-0], [33:0-4-12,0-5-0], [40:0-5-8,Edge], [48:0-4-0,0-2-4]
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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 0.34	Vert(LL)	-0.29	38	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.56	38	>674	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.09	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Attic	-0.19	24-40	1155	360	Weight: 497 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-7,12-15: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-0 max.): 7-12.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 28-40,24-28: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied. Except: 4-4-0 oc bracing: 32-40 5-9-0 oc bracing: 24-32
WEBS 2x4 SP No.3 *Except* 6-41,13-22,40-43,20-24,28-31,27-28: 2x4 SP No.2	WEBS 1 Row at midpt 5-40, 14-24
	JOINTS 1 Brace at Jt(s): 49, 50, 51, 32

REACTIONS. (size) 2=0-3-8, 27=0-3-8, 17=0-3-8
 Max Horz 2=-195(LC 10)
 Max Grav 2=2475(LC 18), 27=1600(LC 27), 17=2086(LC 19)

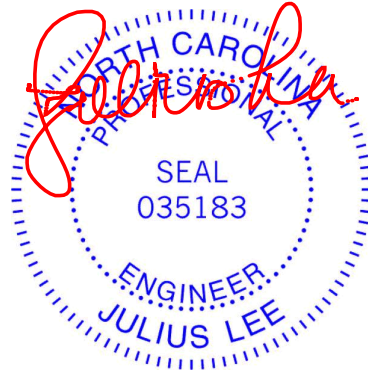
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD
 2-3=-4137/0, 3-5=-3932/0, 5-6=-3462/0, 6-7=-1971/0, 7-8=-1920/0, 8-9=-3389/118,
 9-11=-3389/118, 11-12=-901/32, 12-13=-1132/33, 13-14=-3310/0, 14-16=-3237/0,
 16-17=-3486/0

BOT CHORD
 2-44=0/3614, 43-44=0/3614, 41-43=0/3615, 39-41=0/4304, 37-39=0/4304, 35-37=0/4480,
 33-35=0/4480, 31-33=0/3350, 29-31=53/1024, 27-29=-53/1024, 23-27=-719/279,
 22-23=-752/1262, 20-22=-586/1334, 19-20=0/2951, 17-19=0/2951, 38-40=-825/27,
 36-38=-1952/0, 34-36=-1952/0, 32-34=-989/558, 30-32=-993/605, 28-30=-993/605,
 26-28=0/3257, 25-26=0/3257, 24-25=0/3396

WEBS
 5-43=0/407, 40-41=0/607, 40-52=0/1113, 6-52=0/1084, 47-50=-226/773, 49-50=-224/768,
 49-51=-538/642, 48-51=-537/644, 46-48=-362/0, 22-24=0/371, 24-46=0/784,
 13-46=0/834, 14-20=-300/250, 16-20=-366/52, 7-47=-10/632, 12-48=0/775,
 40-43=-266/37, 5-40=-682/44, 20-24=0/2976, 14-24=-357/382, 26-27=-322/0,
 30-31=-478/0, 11-48=-1973/33, 28-29=-620/0, 28-31=0/2727, 27-28=-1521/0,
 23-25=-368/293, 25-27=-835/410, 23-24=-1082/148, 34-35=0/387, 38-41=-1086/5,
 37-38=-28/674, 34-37=-93/426, 33-34=-1350/0, 8-47=-1452/132, 8-49=-226/480,
 11-49=-98/610, 6-47=-1236/0, 13-48=-1891/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=53ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-11-0, Interior(1) 3-11-0 to 18-1-9, Exterior(2R) 18-1-9 to 25-6-11, Interior(1) 25-6-11 to 34-4-6, Exterior(2R) 34-4-6 to 41-7-13, Interior(1) 41-7-13 to 53-10-0 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



March 25, 2022

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.

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

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 818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss A1A	Truss Type ATTIC	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236034 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:25 2022 Page 2
ID:F7Th1J3pJM_1WbQYC5iDLygfU6-?Y4VQFNhPF?8K9RXN_Pyyed9RzB9rQDTrUiQlvzXkNO

NOTES-

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 47-52, 47-50, 49-50, 49-51, 48-51, 46-48; Wall dead load (7.0psf) on member(s).40-52, 24-46
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 38-40, 36-38, 34-36, 32-34, 30-32, 28-30, 26-28, 25-26, 24-25
- 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) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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

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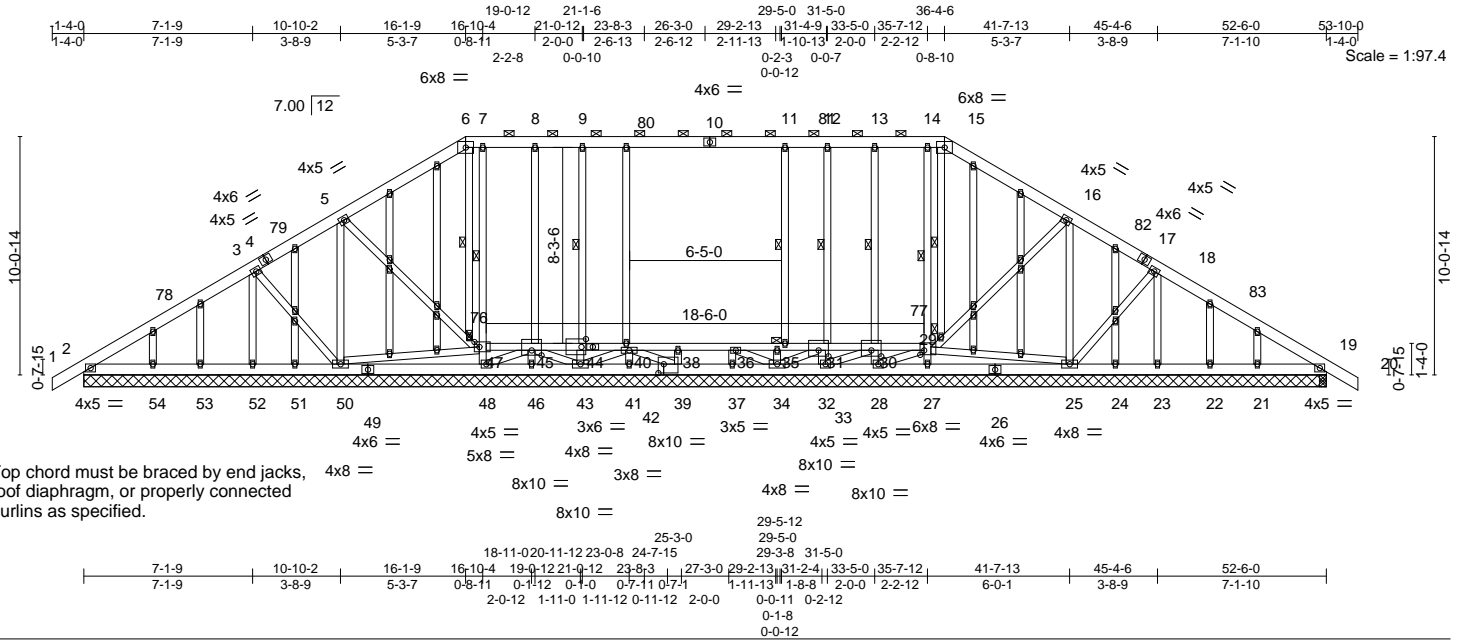
Job 22020383-01	Truss A1G	Truss Type ROOF TRUSS	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236035
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:36 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-BgEfK0WapeOa9rmeWo6Xuzaz21P5GwY15MhtVdmzXkMr

Job Reference (optional)



Top chord must be braced by end jacks, roof diaphragm, or properly connected purlins as specified.

Plate Offsets (X, Y)--	[29:0-2-0,0-2-4], [30:0-5-0,0-3-0], [31:0-5-0,0-3-0], [39:0-2-12,0-4-8], [44:0-2-4,0-4-0], [45:0-5-0,0-2-8], [47:0-2-8,0-2-8]
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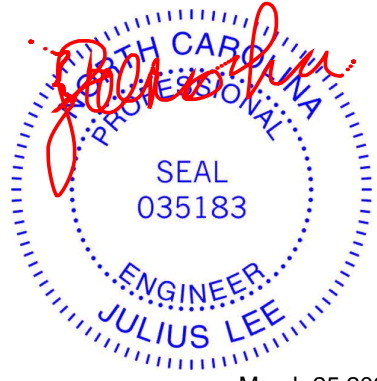
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.01 25-27	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.01 25-27	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.00 19	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 603 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-15.
BOT CHORD 2x6 SP No.2 *Except* 42-47,29-42: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-48, 14-27, 12-31, 13-30, 9-44, 6-76, 15-77, 11-33
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 76, 77, 33

REACTIONS. All bearings 52-6-0.
 (lb) - Max Horz 2=-177(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 52, 50, 25, 23, 19, 51, 53, 24
 Max Grav All reactions 250 lb or less at joint(s) 32, 28, 46, 53, 54, 22, 21 except 2=306(LC 1), 52=312(LC 1), 50=517(LC 24), 48=322(LC 24), 27=339(LC 25), 25=510(LC 25), 23=307(LC 1), 37=258(LC 16), 39=298(LC 16), 19=316(LC 1), 19=316(LC 1), 34=626(LC 19), 43=675(LC 19), 41=255(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-52=-250/41, 5-50=-336/92, 16-25=-333/87, 34-35=-580/2, 43-44=-629/3, 9-44=-573/89, 11-33=-569/33

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=53ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-11-0, Interior(1) 3-11-0 to 16-1-9, Exterior(2R) 16-1-9 to 23-6-11, Interior(1) 23-6-11 to 36-4-6, Exterior(2R) 36-4-6 to 43-9-8, Interior(1) 43-9-8 to 53-10-0 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Wall dead load (7.0psf) on member(s).9-44, 11-33
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 40-44, 38-40, 36-38, 35-36, 33-35
 - N/A
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



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

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 818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss J1	Truss Type Jack-Open	Qty 13	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236036
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Carter Components (Lexington),

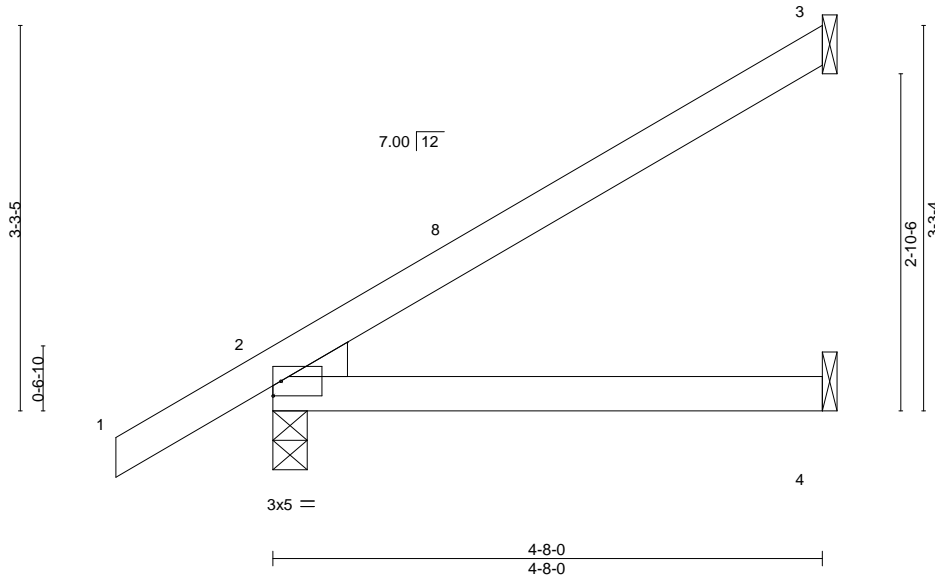
Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:57 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-3i0b8Bmlt51bA4uhFi_SF0yeOfiL6lBCSS6s2zXkMW



Scale = 1:19.6



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 0.28	Vert(LL)	-0.02 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.04 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/TPI2014		Matrix-AS					Weight: 18 lb	FT = 20%

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

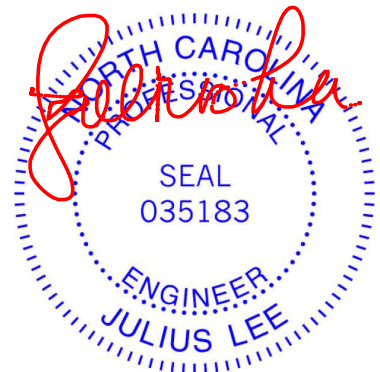
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=95(LC 12)
 Max Uplift 3=-37(LC 12), 2=-18(LC 12)
 Max Grav 3=120(LC 1), 2=276(LC 1), 4=84(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 4-7-4 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

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

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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 22020383-01	Truss T2	Truss Type Common	Qty 2	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236037
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:16 2022 Page 1

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4x5 =

Scale = 1:41.5

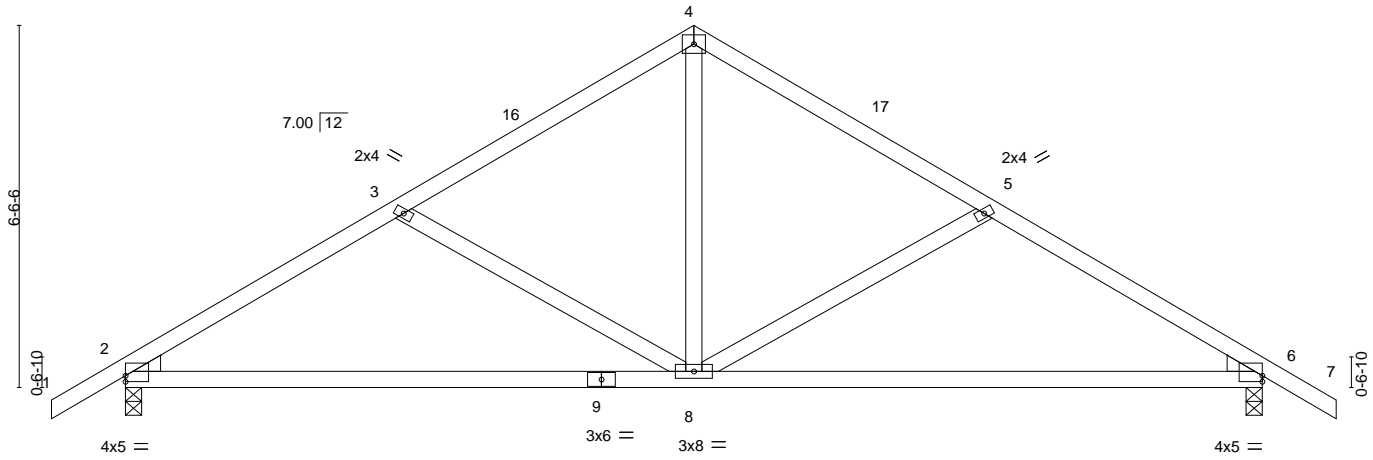


Plate Offsets (X, Y)--	[2:0-0-0,0-1-5], [6:0-0-0,0-1-5]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.17 8-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Vert(CT) -0.34 8-15 >731 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 99 lb	FT = 20%

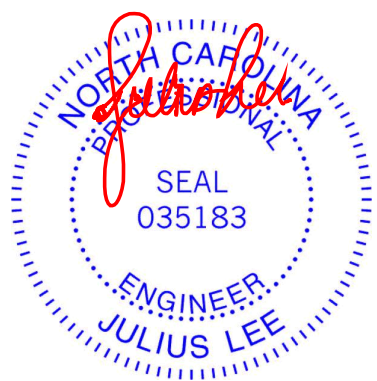
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=115(LC 11)
Max Uplift 2=-39(LC 12), 6=-39(LC 12)
Max Grav 2=900(LC 1), 6=900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1207/73, 3-4=-907/63, 4-5=-907/63, 5-6=-1207/73
BOT CHORD 2-8=0/984, 6-8=0/984
WEBS 4-8=0/576, 5-8=-333/99, 3-8=-333/99

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 10-3-0, Exterior(2R) 10-3-0 to 13-3-0, Interior(1) 13-3-0 to 21-10-0 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.
 - * 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.
 - 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.
 - 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.
 - 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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Edenton, NC 27932

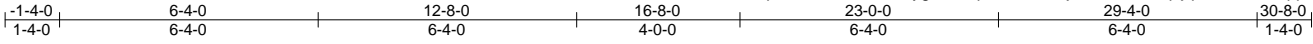
Job 22020383-01	Truss H1	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236038
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:42 2022 Page 1

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Job Reference (optional)



Scale = 1:56.4

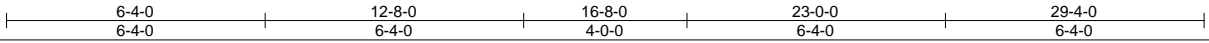
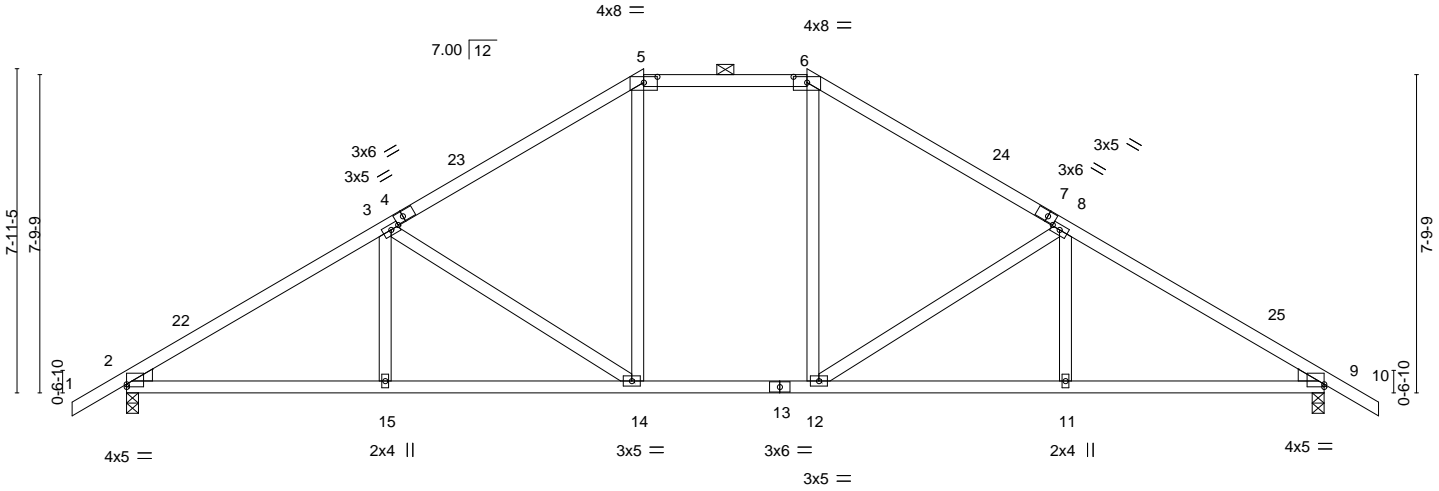


Plate Offsets (X, Y)-- [2:0-0-0,0-0-13], [4:0-2-8,0-1-8], [5:0-4-0,0-1-11], [6:0-4-0,0-1-11], [7:0-2-8,0-1-8], [9:Edge,0-0-13]

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 0.50	Vert(LL)	-0.24	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.34	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.08	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 153 lb	FT = 20%

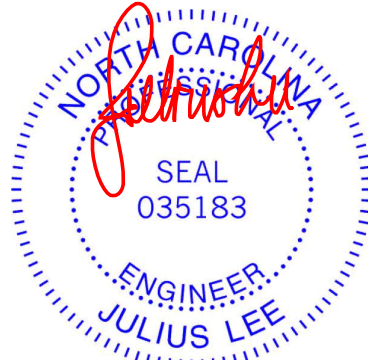
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (5-1-3 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=138(LC 11)
 Max Uplift 2=-42(LC 12), 9=-42(LC 12)
 Max Grav 2=1387(LC 17), 9=1387(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2066/37, 3-5=-1557/84, 5-6=-1269/98, 6-8=-1557/84, 8-9=-2067/37
 BOT CHORD 2-15=0/1802, 14-15=0/1802, 12-14=0/1317, 11-12=0/1699, 9-11=0/1699
 WEBS 3-14=-564/64, 5-14=0/480, 6-12=0/480, 8-12=-564/64

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 12-8-0, Exterior(2E) 12-8-0 to 16-8-0, Exterior(2R) 16-8-0 to 20-10-15, Interior(1) 20-10-15 to 30-8-0 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) 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. 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.



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

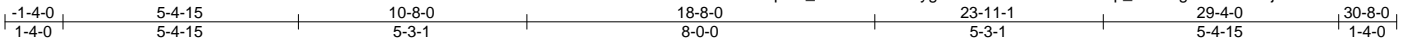


818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss H1A	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236039
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:43 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLyglU6-T09JCPbzAnGaVwp_QmkAgRN7?DL73jh7zH3NMszXkMk



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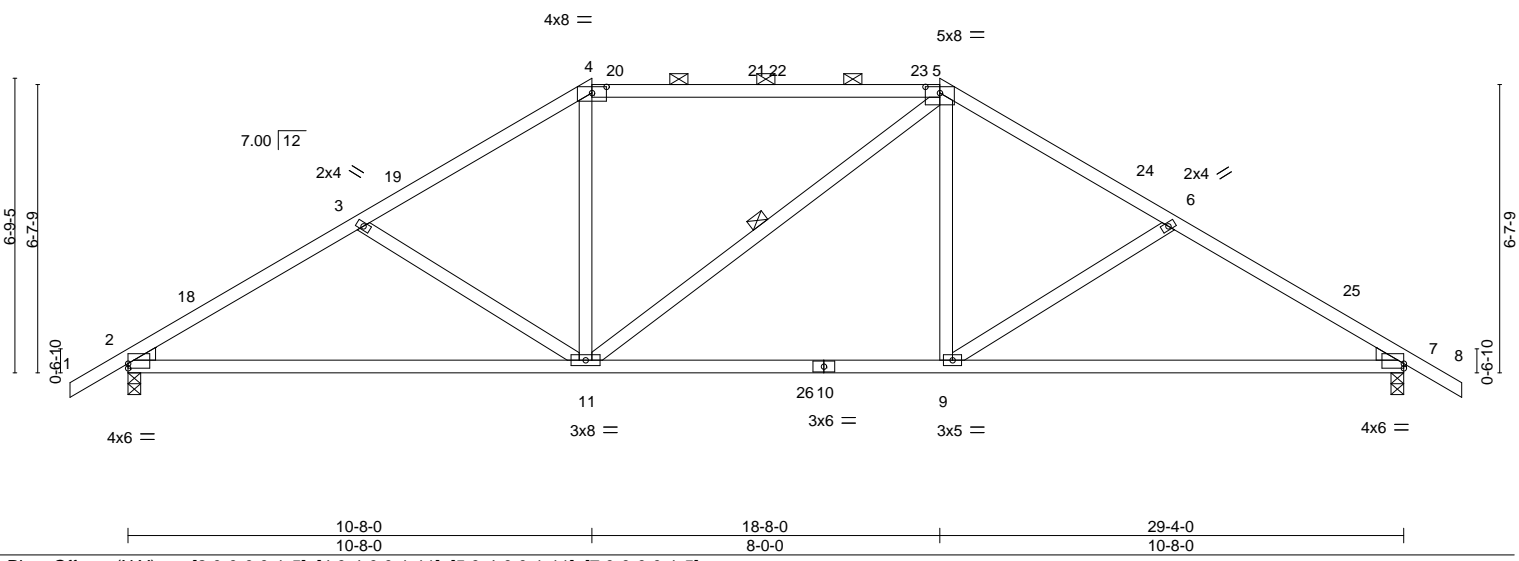


Plate Offsets (X, Y)-- [2:0-0-0,0-1-5], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [7:0-0-0,0-1-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.21 9-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.20	Vert(CT) -0.43 9-17 >818 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 150 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
5-11: 2x4 SP No.2

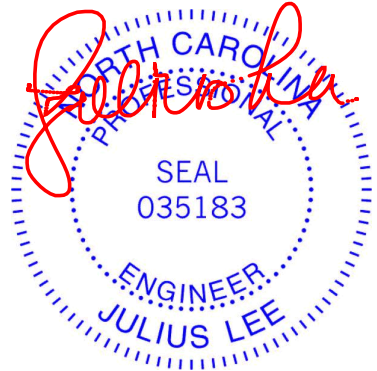
BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-5-2 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=118(LC 11)
Max Uplift 2=42(LC 12), 7=42(LC 12)
Max Grav 2=1377(LC 17), 7=1385(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1982/67, 3-4=-1725/58, 4-5=-1446/78, 5-6=-1742/58, 6-7=-1999/67
BOT CHORD 2-11=0/1734, 9-11=0/1461, 7-9=0/1660
WEBS 3-11=-275/87, 4-11=0/472, 5-9=0/510, 6-9=-274/87

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 10-8-0, Exterior(2R) 10-8-0 to 14-10-15, Interior(1) 14-10-15 to 18-8-0, Exterior(2R) 18-8-0 to 22-10-15, Interior(1) 22-10-15 to 30-8-0 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - 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.



March 25, 2022

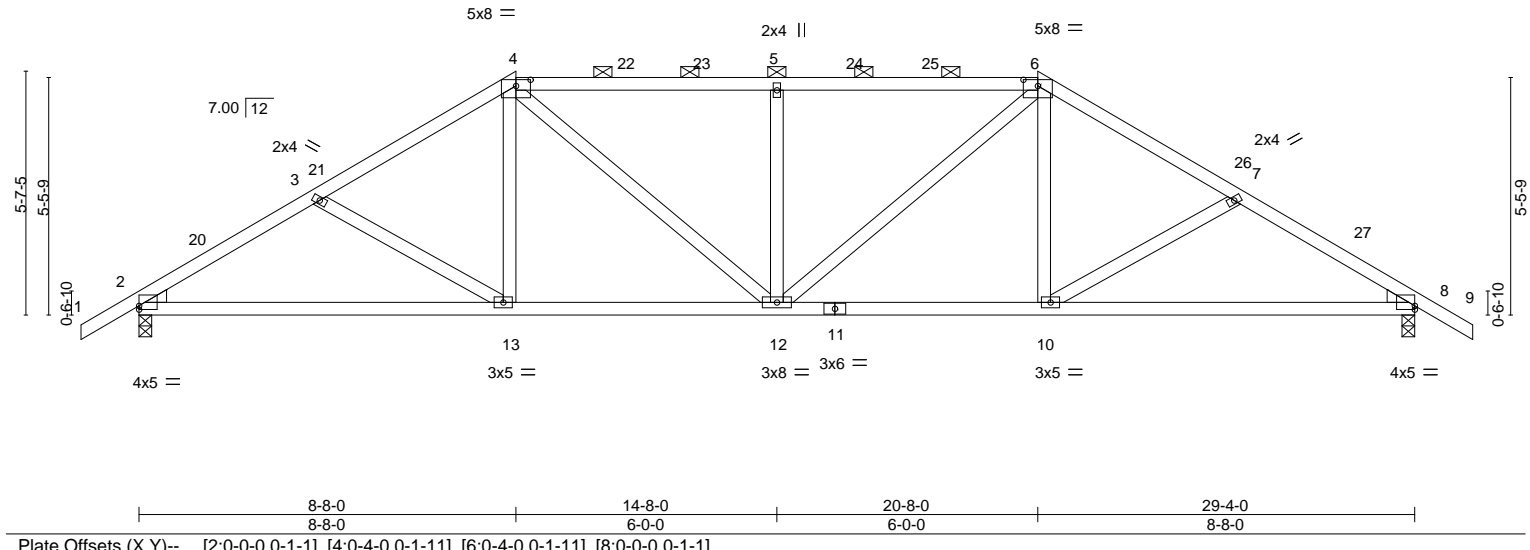
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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</p>	 818 Soundside Road Edenton, NC 27932
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Job 22020383-01	Truss H1B	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236040
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:45 2022 Page 1
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Scale = 1:53.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.10 13-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.22 13-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 157 lb	FT = 20%

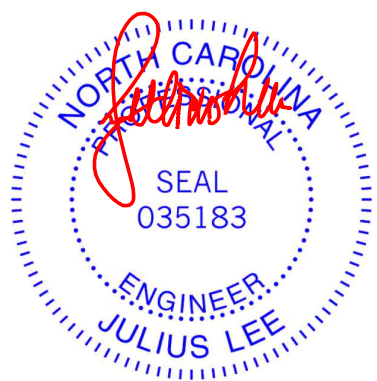
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-2 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=98(LC 11)
 Max Uplift 2=-42(LC 12), 8=-42(LC 12)
 Max Grav 2=1253(LC 1), 8=1253(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1875/54, 3-4=-1672/46, 4-5=-1704/74, 5-6=-1704/74, 6-7=-1672/46, 7-8=-1875/54
 BOT CHORD 2-13=0/1549, 12-13=0/1396, 10-12=0/1396, 8-10=0/1549
 WEBS 4-13=0/332, 4-12=-15/486, 5-12=-420/80, 6-12=-15/486, 6-10=0/332

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 8-8-0, Exterior(2R) 8-8-0 to 12-10-15, Interior(1) 12-10-15 to 20-8-0, Exterior(2R) 20-8-0 to 24-10-15, Interior(1) 24-10-15 to 30-8-0 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) 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 8. 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.



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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

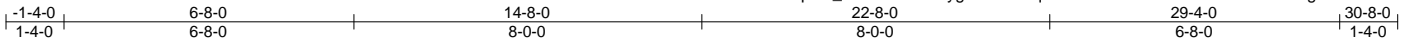
Job 22020383-01	Truss H1C	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236041
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:46 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-ubrRqRdsSie9MOYZ5uHtI4?euROdG2nZgFl1zBzXkMh

Job Reference (optional)



Scale = 1:53.0

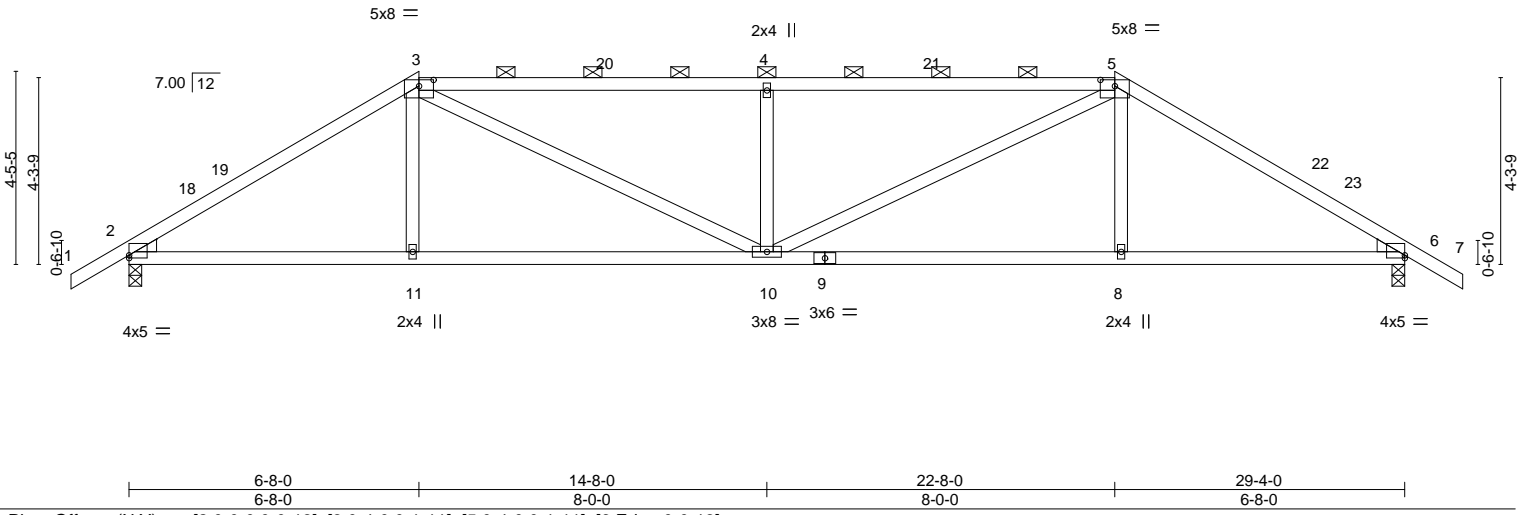


Plate Offsets (X,Y)--	[2:0-0,0-0-13], [3:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:Edge,0-0-13]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.74	Vert(LL) -0.12 10-11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.29 10-11 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.07 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 140 lb	FT = 20%

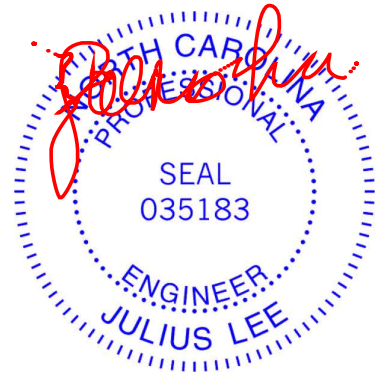
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-0-5 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=78(LC 11)
Max Uplift 2=-42(LC 12), 6=-42(LC 12)
Max Grav 2=1253(LC 1), 6=1253(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1879/29, 3-4=-2260/58, 4-5=-2260/58, 5-6=-1879/29
BOT CHORD 2-11=0/1539, 10-11=0/1534, 8-10=0/1534, 6-8=0/1539
WEBS 3-11=0/284, 3-10=-3/897, 4-10=-568/107, 5-10=-3/897, 5-8=0/284

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 6-8-0, Exterior(2R) 6-8-0 to 10-10-15, Interior(1) 10-10-15 to 22-8-0, Exterior(2R) 22-8-0 to 26-10-15, Interior(1) 26-10-15 to 30-8-0 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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.
 - 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.
 - 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.



March 25, 2022

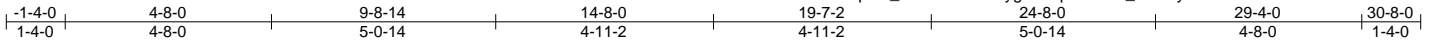
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/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 22020383-01	Truss H1GR	Truss Type Hip Girder	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236042
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:48 2022 Page 1
ID:F7Th11J3pJM_1WbQYC5iDLygfU6-qzzCF6f6_KutbiyDJLNV4xdE5zkrCs7Zn823zXkMf



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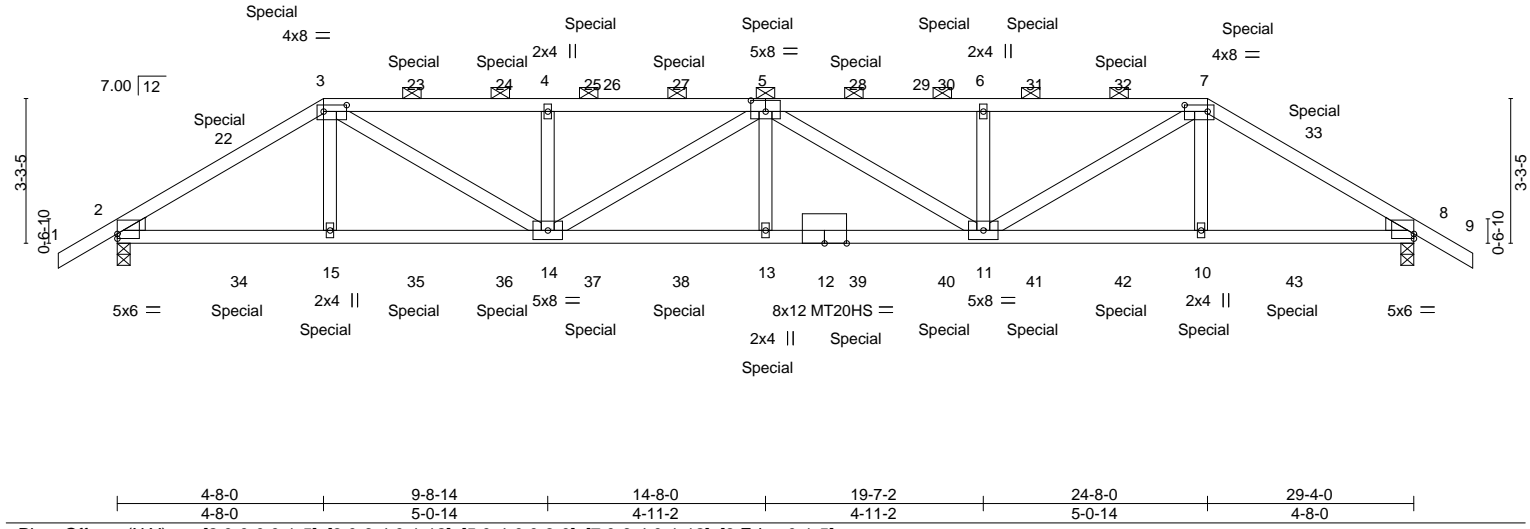


Plate Offsets (X, Y)--	[2:0-0,0-1-5], [3:0-6-4,0-1-12], [5:0-4-0,0-3-0], [7:0-6-4,0-1-12], [8:Edge,0-1-5]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.24	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.49	13-14	>724	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.11	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 148 lb	FT = 20%

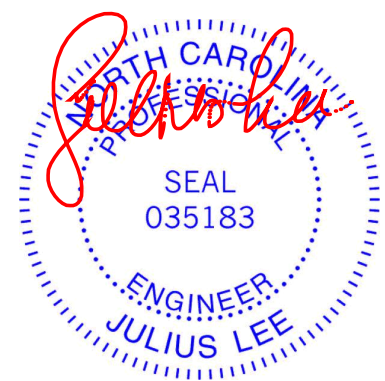
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except 2-0-0 oc purlins (2-3-5 max.): 3-7.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

"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.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=60(LC 7)
Max Uplift 2=-122(LC 8), 8=-123(LC 8)
Max Grav 2=1976(LC 1), 8=1979(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3041/149, 3-4=-4196/221, 4-5=-4196/221, 5-6=-4198/222, 6-7=-4198/222, 7-8=-3047/150
BOT CHORD 2-15=-56/2544, 14-15=-52/2554, 13-14=-148/4699, 11-13=-148/4699, 10-11=-62/2560, 8-10=-65/2550
WEBS 3-15=0/314, 3-14=-91/1927, 4-14=-490/149, 5-14=-599/29, 5-13=0/306, 5-11=-597/29, 6-11=-490/148, 7-11=-91/1923, 7-10=0/317

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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; 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020383-01	Truss H1GR	Truss Type Hip Girder	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236042 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:39:48 2022 Page 2
ID:F7Th11J3pJM_1WbQYC5iDLygfU6-qzzCF6f6_KutbiyDJJLNV4xdE5zkrCs7Zn823zXkMf

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 40 lb up at 2-8-12, 80 lb down and 61 lb up at 4-8-0, 88 lb down and 58 lb up at 6-8-12, 88 lb down and 58 lb up at 8-8-12, 84 lb down and 58 lb up at 10-8-12, 80 lb down and 58 lb up at 12-8-12, 80 lb down and 58 lb up at 14-8-12, 80 lb down and 58 lb up at 16-8-12, 85 lb down and 58 lb up at 18-8-12, 88 lb down and 58 lb up at 20-8-12, 88 lb down and 58 lb up at 22-8-12, and 80 lb down and 61 lb up at 24-8-0, and 39 lb down and 40 lb up at 26-7-4 on top chord, and 215 lb down and 27 lb up at 2-8-12, 44 lb down at 4-8-12, 44 lb down at 6-8-12, 44 lb down at 8-8-12, 44 lb down at 10-8-12, 44 lb down at 12-8-12, 44 lb down at 14-8-12, 44 lb down at 16-8-12, 44 lb down at 18-8-12, 44 lb down at 20-8-12, 44 lb down at 22-8-12, and 44 lb down at 24-7-4, and 215 lb down and 27 lb up at 26-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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, 3-7=-60, 7-9=-60, 16-19=-20

Concentrated Loads (lb)

Vert: 3=-60(F) 7=-60(F) 15=-32(F) 5=-60(F) 13=-32(F) 10=-32(F) 23=-60(F) 24=-60(F) 25=-60(F) 27=-60(F) 28=-60(F) 30=-60(F) 31=-60(F) 32=-60(F) 34=-215(F) 35=-32(F) 36=-32(F) 37=-32(F) 38=-32(F) 39=-32(F) 40=-32(F) 41=-32(F) 42=-32(F) 43=-215(F)

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

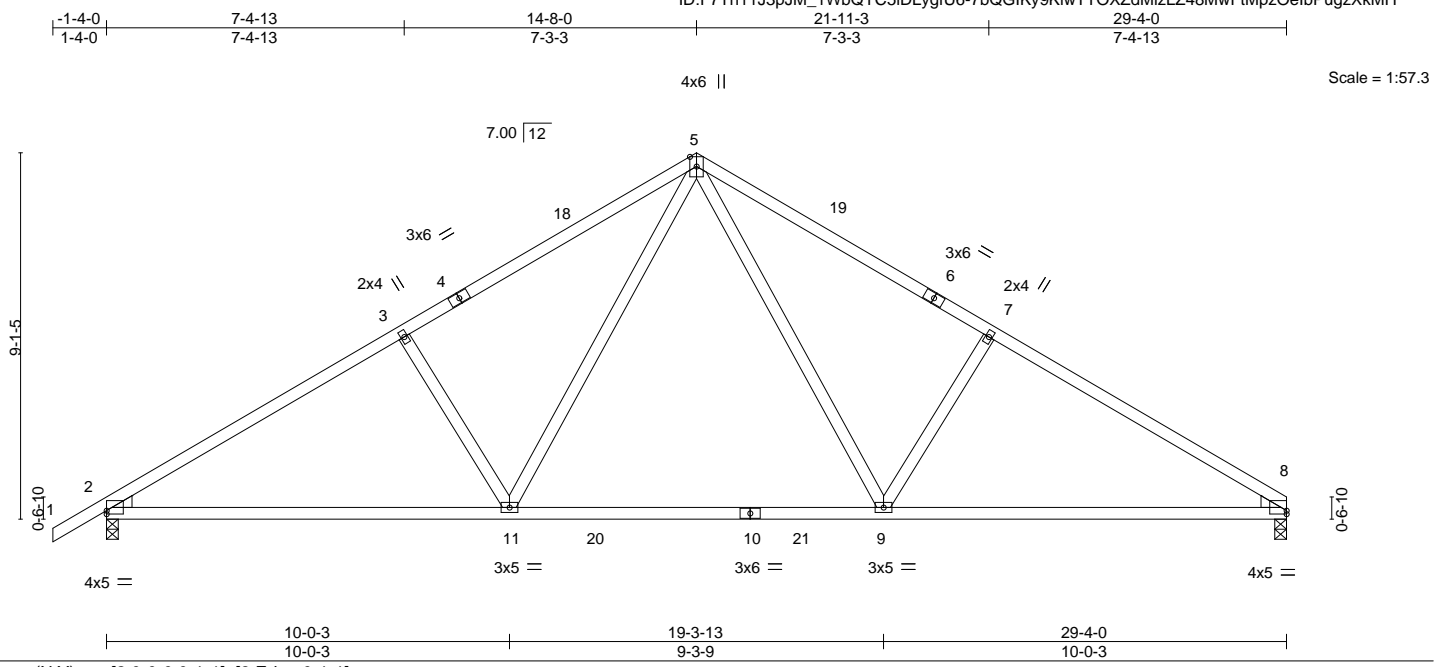
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
Edenton, NC 27932

Job 22020383-01	Truss T1	Truss Type Common	Qty 2	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236043
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:12 2022 Page 1
 ID:F7Th11J3pJM_1WbQYc5iDLygfU6-7bQGikY9KiWtTOXZdMizLZ48MwFtMpzOelbPugzXkMH



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.25 9-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.37 9-11 >963 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.05 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 142 lb	FT = 20%

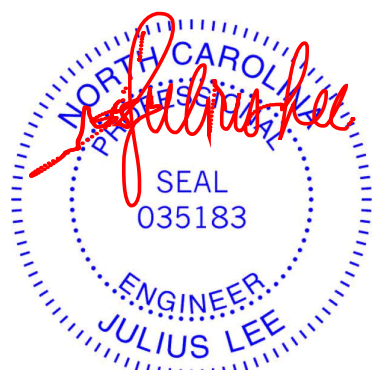
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=155(LC 11)
 Max Uplift 2=-43(LC 12), 8=-8(LC 12)
 Max Grav 2=1390(LC 17), 8=1317(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1984/79, 3-5=-1798/122, 5-7=-1805/126, 7-8=-1990/83
 BOT CHORD 2-11=-4/1737, 9-11=0/1147, 8-9=-0/1636
 WEBS 5-9=-6/832, 7-9=-420/140, 5-11=-4/823, 3-11=-414/139

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 29-4-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. 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.



March 25, 2022

Job 22020383-01	Truss T1S	Truss Type COMMON	Qty 5	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236044
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:14 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-3_X1j?zQsJABjhhyknnRR_9TDjs0qebh6c4WzZzXkMF

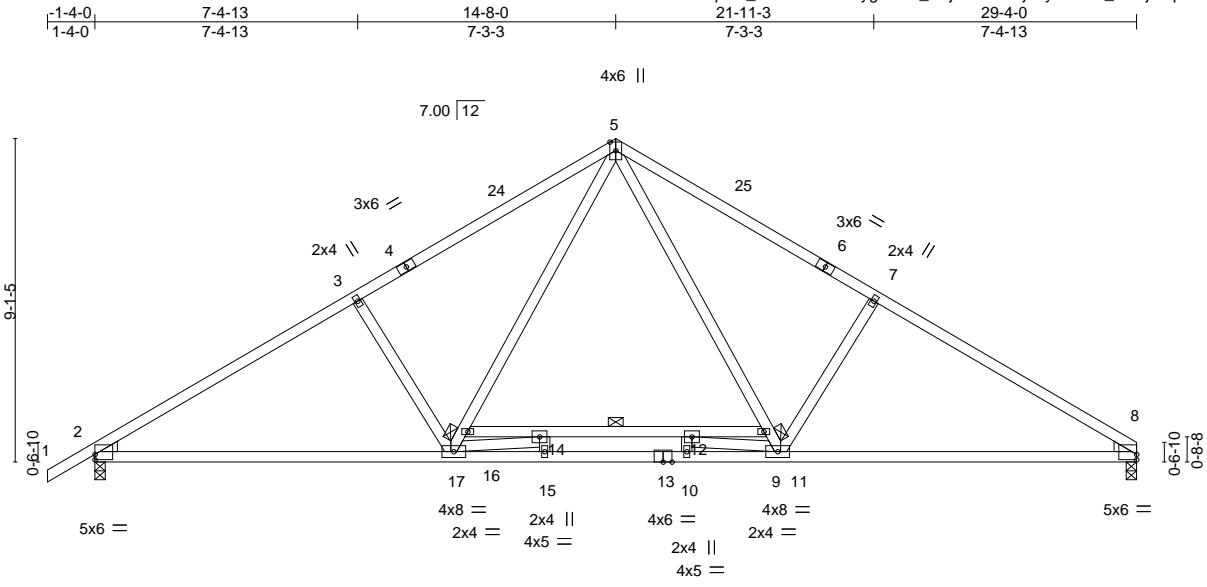


Plate Offsets (X,Y)--	[2:0-0-0,0-1-13], [8:Edge,0-1-13]
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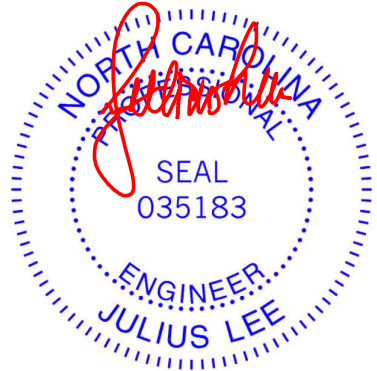
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.18 9-23 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.70	Vert(CT) -0.38 10-15 >919 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.09 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 163 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 11-16: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 4-4-0 oc bracing: 11-16
WEBS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=155(LC 11)
 Max Grav 2=1739(LC 17), 8=1665(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2630/0, 3-5=-2439/0, 5-7=-2446/0, 7-8=-2637/0
 BOT CHORD 2-17=0/2290, 15-17=0/2887, 10-15=0/2887, 9-10=0/2887, 8-9=0/2189, 12-14=-1494/0
 WEBS 5-11=0/1193, 9-11=0/1077, 7-9=-405/152, 16-17=0/1068, 5-16=0/1184, 3-17=-400/151,
 14-17=-1397/0, 9-12=-1396/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 29-4-0 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
 - 350.0lb AC unit load placed on the bottom chord, 14-8-0 from left end, supported at two points, 4-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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.
 - 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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 22020383-01	Truss T1SA	Truss Type COMMON	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236045
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:15 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-XA5PwL_2ddI2KrG8iUlgzBicN7ChZ5zqKFp3V?zXkME



Scale: 3/16"=1'

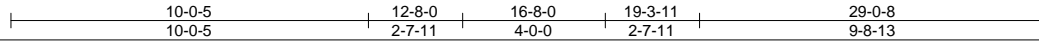
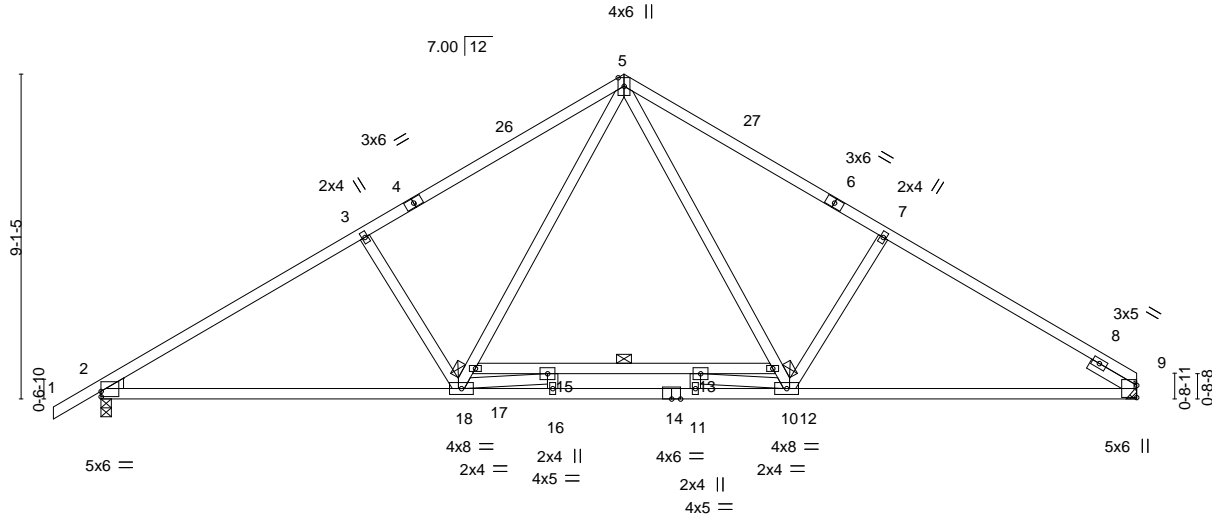


Plate Offsets (X,Y)--	[2:0-0-0,0-1-13], [9:Edge,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.18 18-21 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(CT) -0.38 11-16 >906 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.10 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				Weight: 163 lb	FT = 20%

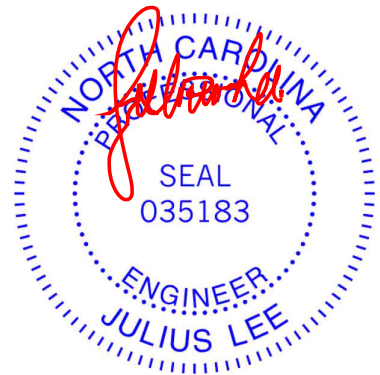
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
12-17: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
4-3-0 oc bracing: 12-17

REACTIONS. (size) 2=0-3-8, 9=Mechanical
Max Horz 2=154(LC 11)
Max Grav 2=1723(LC 17), 9=1655(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2599/0, 3-5=-2409/0, 5-7=-2360/0, 7-9=-2519/0
BOT CHORD 2-18=0/2263, 16-18=0/2899, 11-16=0/2899, 10-11=0/2899, 9-10=0/2093, 13-15=-1534/0
WEBS 5-12=0/1109, 10-12=0/996, 7-10=-361/156, 17-18=0/1076, 5-17=0/1189, 3-18=-399/151,
15-18=-1435/0, 10-13=-1452/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 29-0-8 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
 - 350.0lb AC unit load placed on the bottom chord, 14-8-0 from left end, supported at two points, 4-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - 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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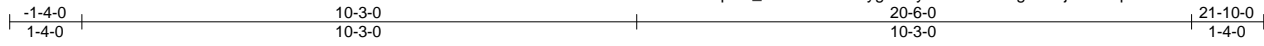
Job 22020383-01	Truss T2G	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 24-3320 Elev 'A' Permit-Roof Truss T27236046
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 11:40:18 2022 Page 1

ID:F7Th11J3pJM_1WbQYC5iDLygfU6-ylnYYN0wwYgdBJ?jzcsNbqKGaKTFmaTH1D2k6KzXkMB

Job Reference (optional)



3x6 =

Scale = 1:42.6

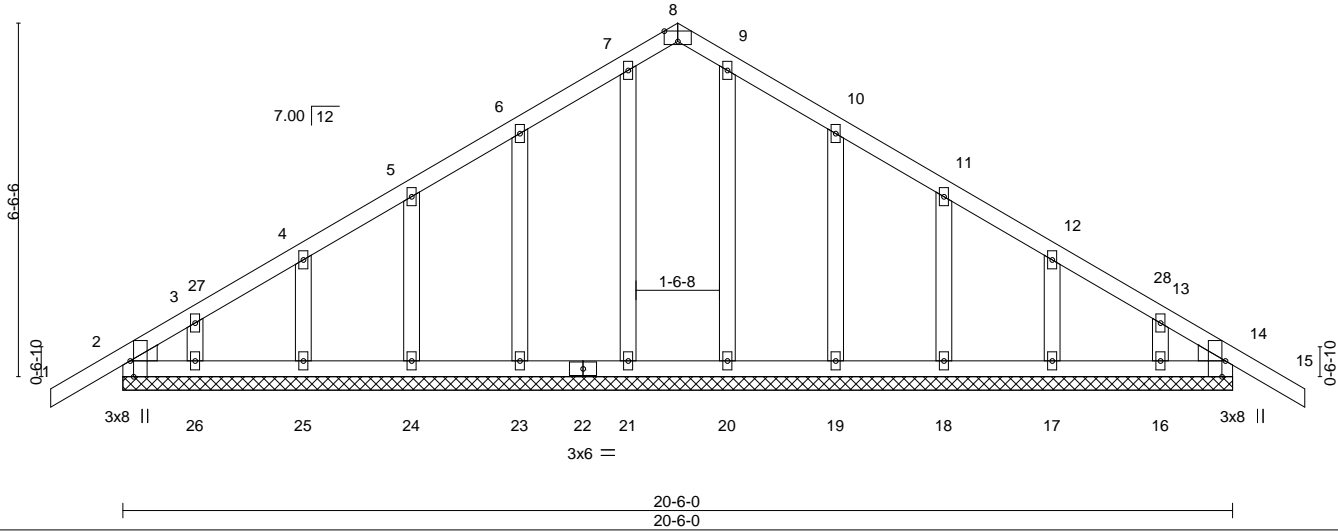


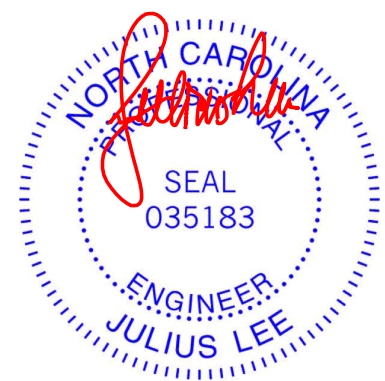
Plate Offsets (X,Y)--	[2:0-3-8,Edge], [8:0-3-0,Edge], [14:0-3-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.01 15 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.01 15 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			
				Weight: 119 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. All bearings 20-6-0.
 (lb) - Max Horz 2=115(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 19, 18, 17, 16, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 23, 24, 25, 26, 20, 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=120mph (3-second gust) Vasd=95mph; 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 10-3-0, Corner(3R) 10-3-0 to 13-2-0, Exterior(2N) 13-2-0 to 21-10-0 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.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) 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.



March 25, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

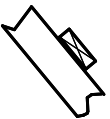
* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.