

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 22020381-01
Cameron Woods Lot 17-2316 Elev 'B' 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: T27232832 thru T27232865

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

North Carolina COA: C-0844



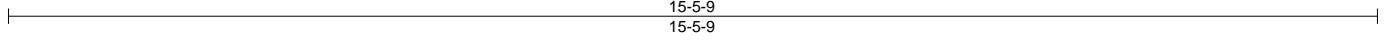
March 25, 2022

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 22020381-01	Truss PB1C	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232832
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:59 2022. Page 1
ID:t:Qlj0K5bXobraOovdZu2Jzzt7J5-Gp4sjd7NbfSX8FH6vhLf_6?iy0WnDDkgZD4JrzXmNs



Scale = 1:26.0

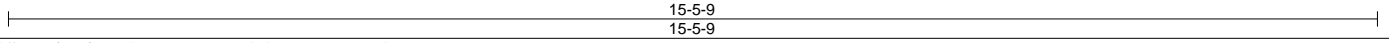
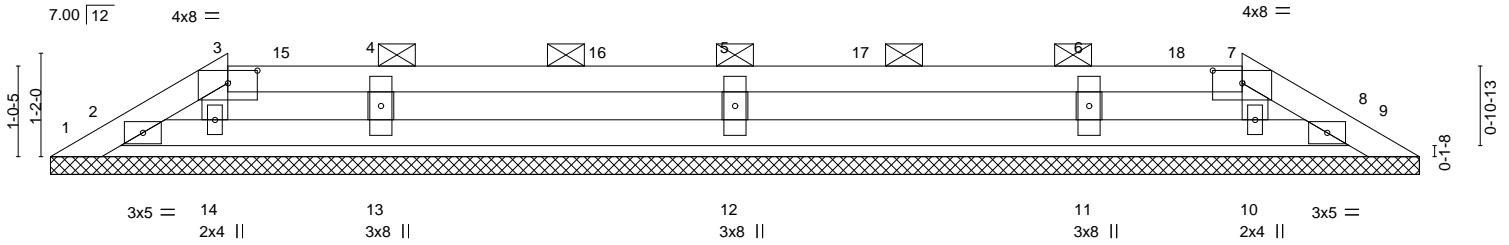


Plate Offsets (X,Y)-- [3:0-4-0,0-1-11], [7:0-4-0,0-1-11]

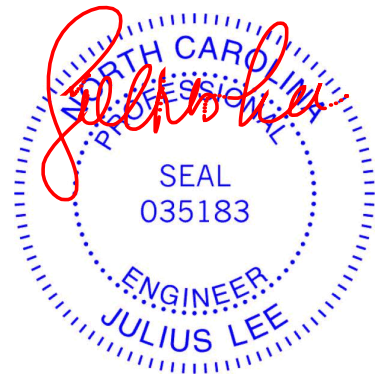
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 47 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 (10-0-0 max.): 3-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-5-9.
 (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=342(LC 1), 11=262(LC 23), 13=265(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 5-12=256/86

- 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) 0-3-8 to 2-0-1, Exterior(2R) 2-0-1 to 6-2-15, Interior(1) 6-2-15 to 13-5-9, Exterior(2E) 13-5-9 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, 11, and 13. 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

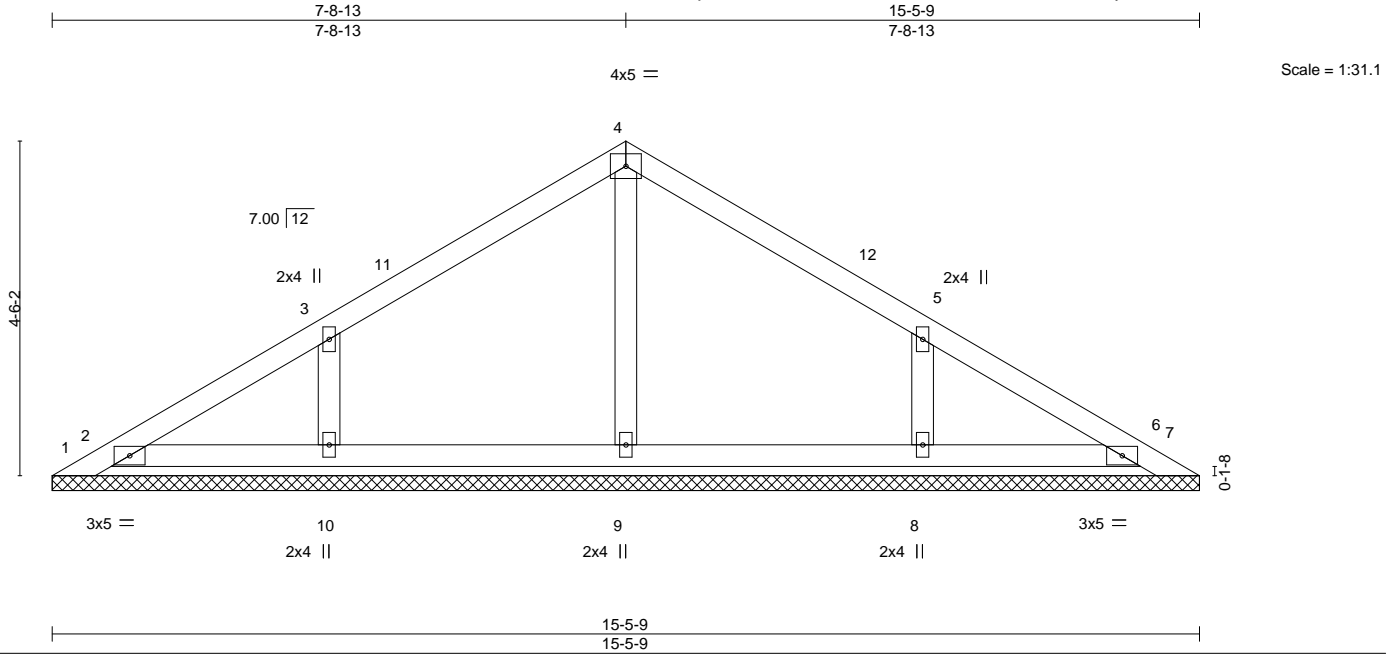
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 22020381-01	Truss PB1	Truss Type GABLE	Qty 5	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232833
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:54 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 57 lb	FT = 20%

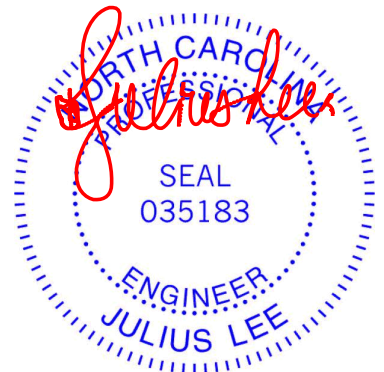
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 15-5-9.
(lb) - Max Horz 1=74(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=273(LC 1), 10=317(LC 23), 8=317(LC 24)

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 7-8-13, Exterior(2R) 7-8-13 to 10-8-13, Interior(1) 10-8-13 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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.
 - 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) 2, 6, 10, and 8. 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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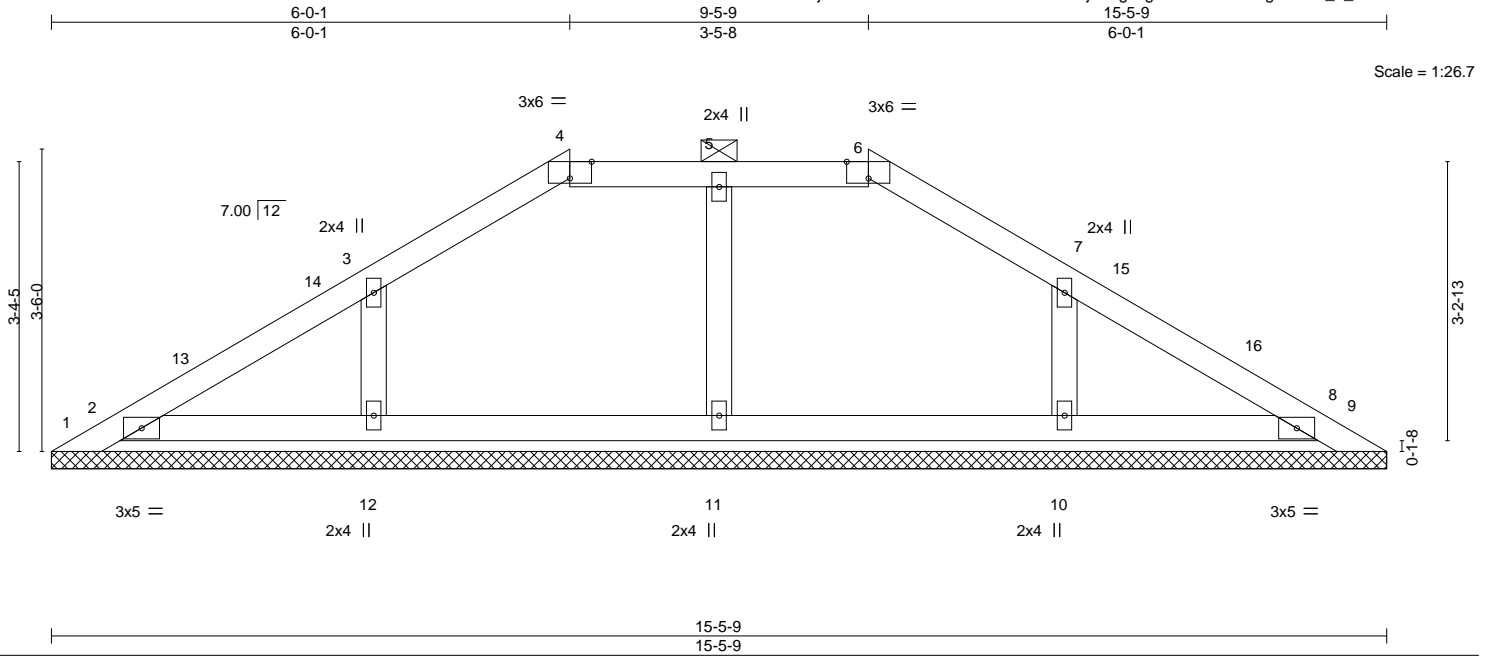


818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss PB1A	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232834
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:56 2022 Page 1
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Scale = 1:26.7

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [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 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 55 lb	FT = 20%

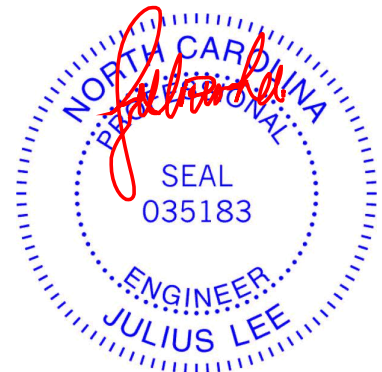
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-5-9.
(lb) - Max Horz 1=55(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 8, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 11 except 2=269(LC 1), 8=269(LC 1), 12=269(LC 23), 10=269(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 6-0-1, Exterior(2E) 6-0-1 to 9-5-9, Exterior(2R) 9-5-9 to 13-8-7, Interior(1) 13-8-7 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 12, and 10. This connection is for uplift only and does not consider lateral forces.
 - 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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

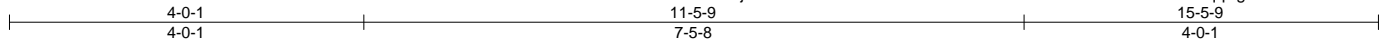
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss PB1B	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232835
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:58 2022 Page 1
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Scale = 1:26.0

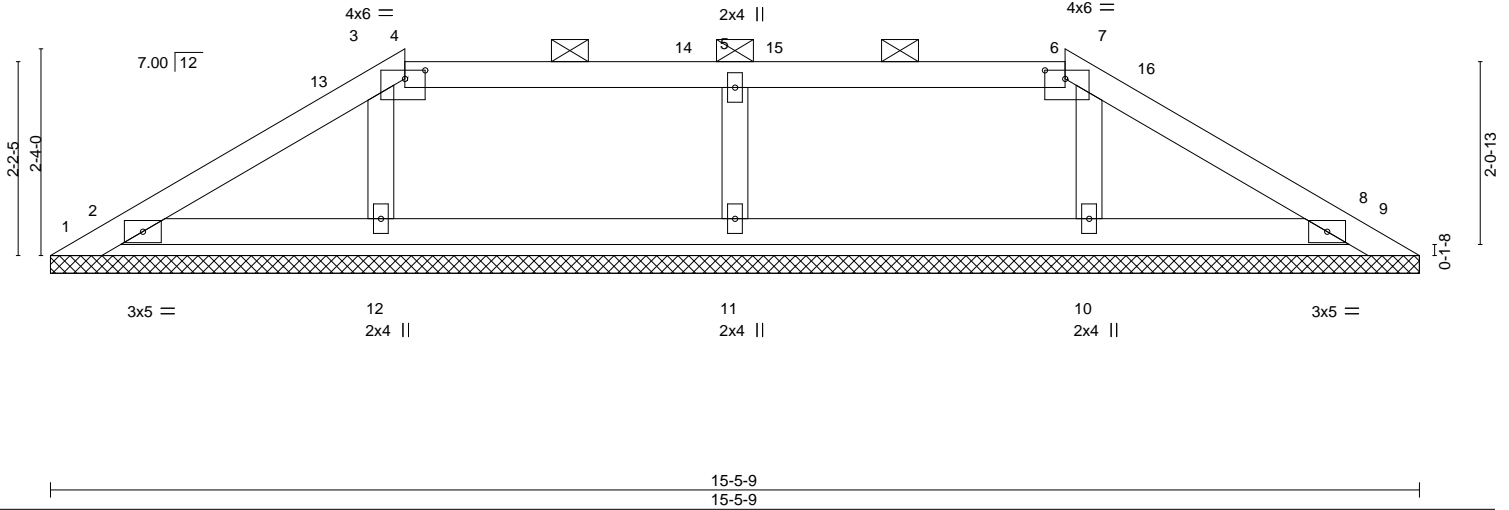


Plate Offsets (X,Y)-- [4:0-2-12,0-1-3], [6:0-2-12,0-1-3]

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)	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: 52 lb	FT = 20%

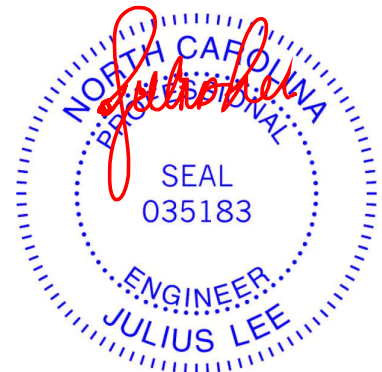
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-5-9.
(lb) - Max Horz 1=36(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 8, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8 except 11=346(LC 23), 12=266(LC 1), 10=266(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-11--264/90

- 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) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 4-0-1, Exterior(2R) 4-0-1 to 8-2-15, Interior(1) 8-2-15 to 11-5-9, Exterior(2E) 11-5-9 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, and 11. 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

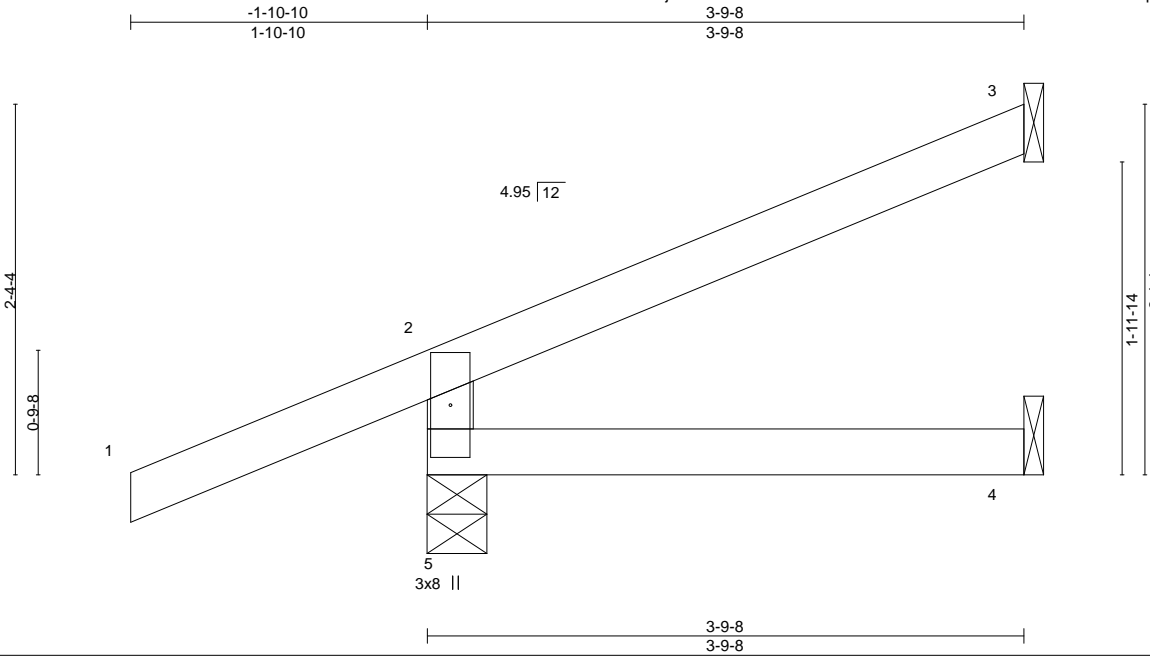
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss CJ1	Truss Type DIAGONAL HIP GIRDER	Qty 3	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232836
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:24 2022 Page 1
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Scale = 1:14.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.02 4-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 4-5 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.02 3 n/a n/a		
	Code IRC2018/TPI2014			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 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

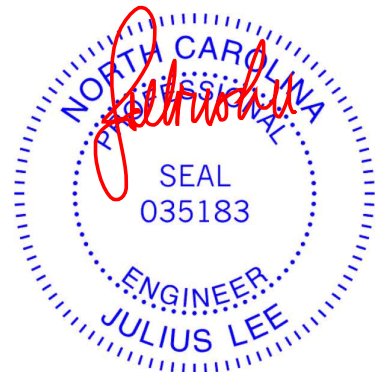
REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical
 Max Horz 5=79(LC 7)
 Max Uplift 5=-43(LC 17), 4=-30(LC 5)
 Max Grav 5=134(LC 3), 3=56(LC 1), 4=164(LC 13)

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; TCCL=6.0psf; BCCL=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
 - 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 30 lb uplift at joint 4.
 - 6) 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.
 - 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1 lb down and 4 lb up at -1-10-10, and 1 lb down and 4 lb up at -1-10-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) 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: 2-3=-20(F=40)
 Concentrated Loads (lb)
 Vert: 1=6(F=3, B=3)
 Trapezoidal Loads (plf)
 Vert: 1=40(F=70, B=30)-to-2=0(F=50, B=10), 5=-47(F=-13, B=-13)-to-4=-108(F=-44, B=-44)



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

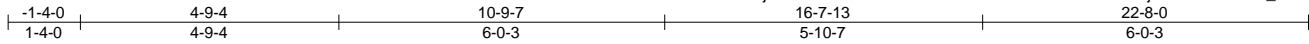


818 Soundside Road
 Edenton, NC 27932

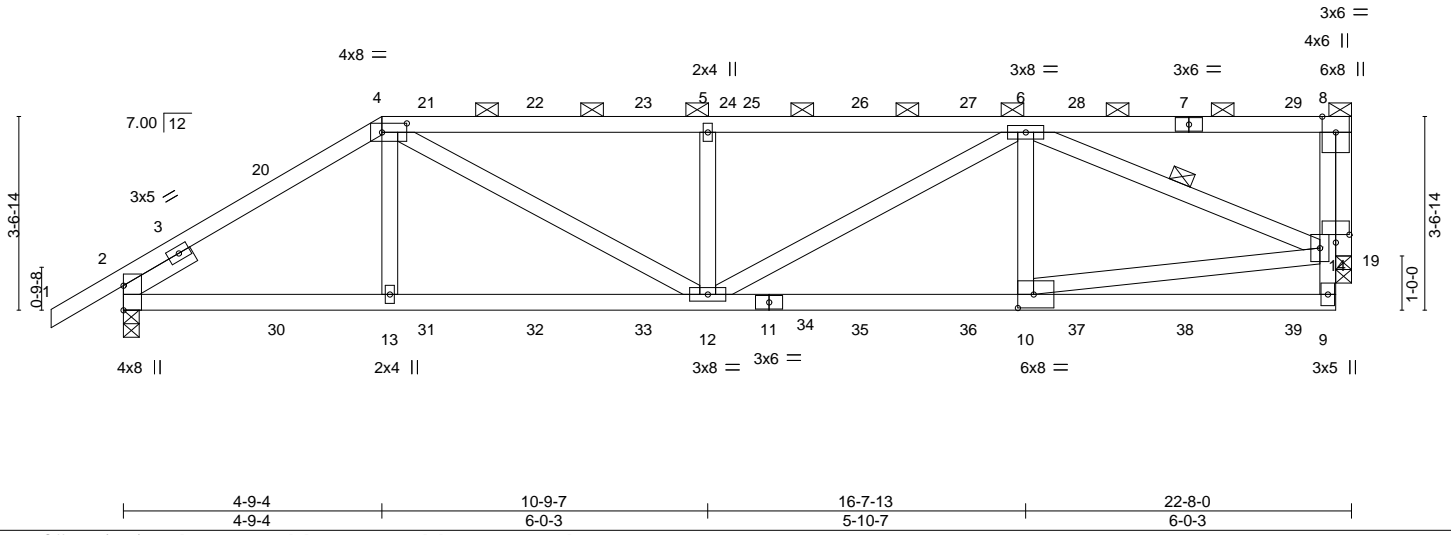
Job 22020381-01	Truss H1GRB	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232837
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:39 2022 Page 1
ID:1Qij0K5bXobraOovdZu2Jzzt7J5-szslWvOa5S7H84kRxiKesmHQBu0s6_wo4SM0d0zXmOA



Scale = 1:42.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.87	Vert(LL)	-0.10 12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT)	-0.23 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.78	Horz(CT)	0.04 19	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 129 lb	FT = 20%

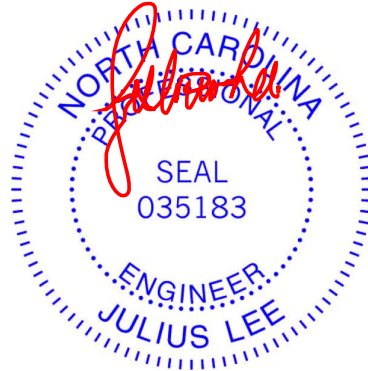
LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
7-8: 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
9-11: 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-2 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS. (size) 2=0-3-8, 19=0-3-8
Max Horz 2=81(LC 8)
Max Uplift 2=-137(LC 8), 19=-128(LC 5)
Max Grav 2=1516(LC 1), 19=1406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2096/157, 4-5=-2575/218, 5-6=-2575/218, 8-14=-44/1162
BOT CHORD 2-13=-162/1718, 12-13=-158/1725, 10-12=-186/1981
WEBS 4-13=0/302, 4-12=-81/968, 5-12=-578/181, 6-12=-72/681, 6-14=-1942/158,
10-14=-208/1876, 8-19=-1419/130

- 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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 19. 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) 93 lb down and 60 lb up at 2-10-0, 81 lb down and 66 lb up at 4-9-4, 87 lb down and 62 lb up at 5-7-4, 88 lb down and 62 lb up at 7-7-4, 88 lb down and 62 lb up at 9-7-4, 88 lb down and 62 lb up at 11-7-4, 88 lb down and 62 lb up at 13-7-4, 88 lb down and 62 lb up at 15-7-4, 88 lb down and 62 lb up at 17-7-4, and 88 lb down and 62 lb up at 19-7-4, and 82 lb down and 62 lb up at 21-7-4 on top chord, and 103 lb down and 34 lb up at 2-10-0, 44 lb down at 4-10-0, 44 lb down at 5-7-4, 44 lb down at 7-7-4, 44 lb down at 9-7-4, 44 lb down at 11-7-4, 44 lb down at 13-7-4, 44 lb down at 15-7-4, 44 lb down at 17-7-4, and 44 lb down at 19-7-4, and 52 lb down at 21-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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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 22020381-01	Truss H1GRB	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232837
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:39 2022 Page 2
ID:tQij0K5bXobraOovdZu2Jzzt7J5-szslWvOa5S7H84kRxjKesmHQBbu0s6_wo4SM0d0zXmOA

NOTES-

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: 1-4=-60, 4-8=-60, 9-15=-20

Concentrated Loads (lb)

Vert: 4=-59(F) 7=-59(F) 13=-29(F) 20=-68(F) 21=-59(F) 22=-59(F) 23=-59(F) 25=-59(F) 26=-59(F) 27=-59(F) 28=-59(F) 29=-67(F) 30=-103(F) 31=-29(F) 32=-29(F) 33=-29(F) 34=-29(F) 35=-29(F) 36=-29(F) 37=-29(F) 38=-29(F) 39=-33(F)

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

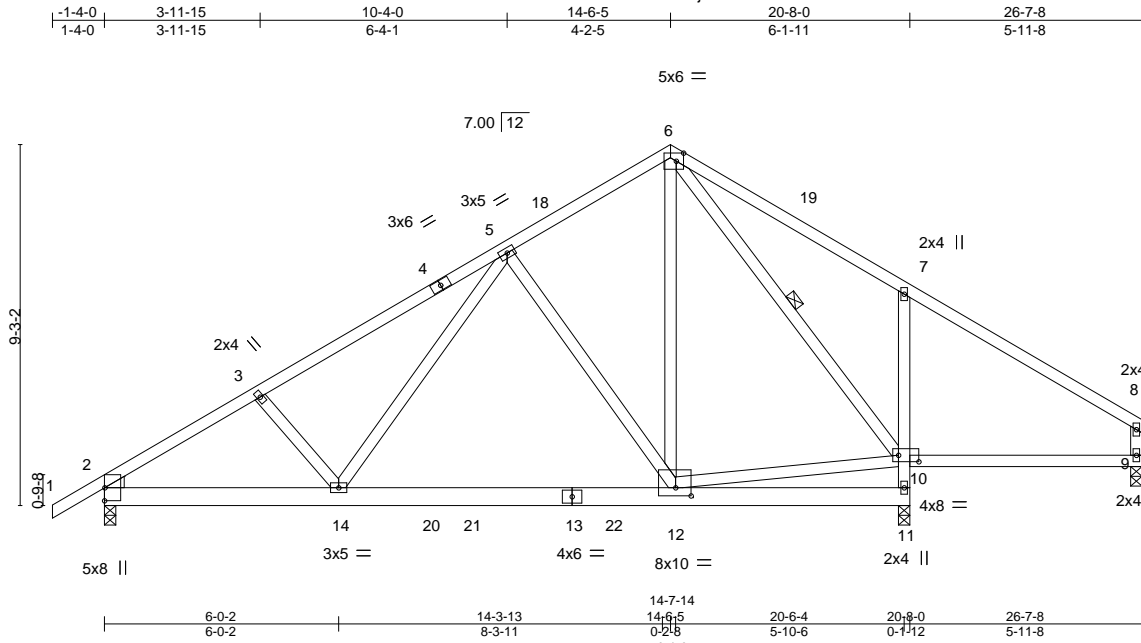
Job 22020381-01	Truss T3A	Truss Type ROOF SPECIAL	Qty 3	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232838
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:13 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-sVw9Yov4uQSDIKzwsxdExhLSbfB3NPoukcqp1zXmNe

Job Reference (optional)



Scale = 1:59.1

Plate Offsets (X,Y)-- [6:0-2-4,0-2-8], [10:0-6-4,0-2-0], [12:0-4-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.44	Vert(LL) -0.08	12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.26	12-14	>956	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.02	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 177 lb	FT = 20%

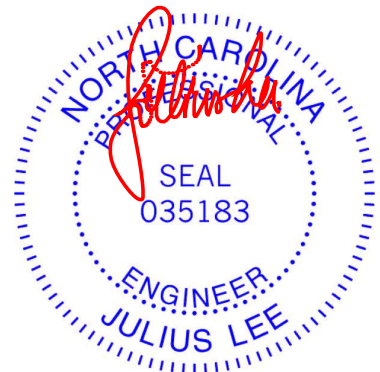
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 7-11: 2x4 SP No.3, 9-10: 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-10

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 9=0-3-8
 Max Horz 2=162(LC 11)
 Max Uplift 9=88(LC 12)
 Max Grav 2=1181(LC 17), 11=1274(LC 2), 9=298(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1726/0, 3-5=-1611/0, 5-6=-790/0, 6-7=-250/256
 BOT CHORD 2-14=0/1536, 12-14=0/1005, 10-11=-1248/0, 7-10=-407/142
 WEBS 5-14=0/714, 5-12=-620/3, 10-12=0/737, 6-12=0/953, 6-10=-970/0

- 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 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 26-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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, 10-4-0 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.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. 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.

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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 22020381-01	Truss T3	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232839
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:12 2022 Page 1
ID: tQIj0K5bXobraOovdZu2Jzzt7J5-OJMnRCoHJbIbb8InN8QOhj89gCJ5Kw6ff5sGGbzXmNf

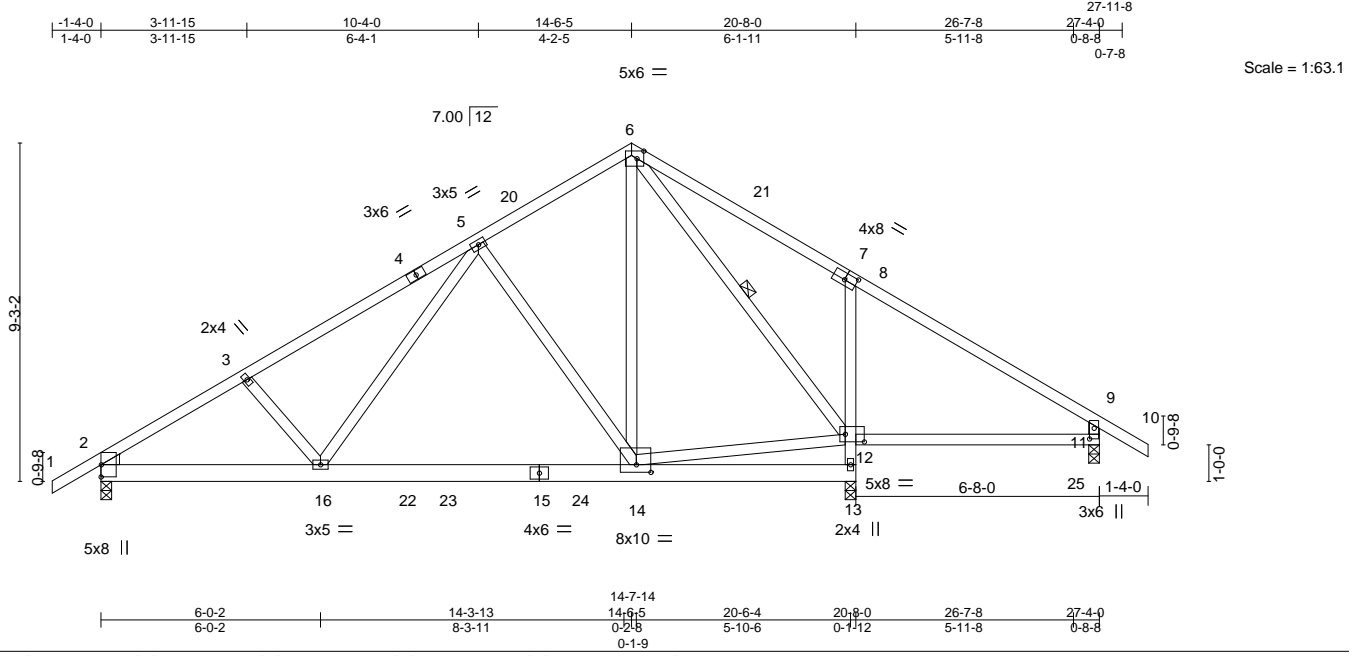


Plate Offsets (X,Y)-- [6:0-2-4,0-2-8], [7:0-4-0,0-2-4], [11:0-3-8,0-1-8], [12:0-6-4,0-2-8], [14:0-4-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) 0.10	11-12	>815	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.26	14-16	>960	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.02	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
8-13: 2x4 SP No.3, 11-12: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

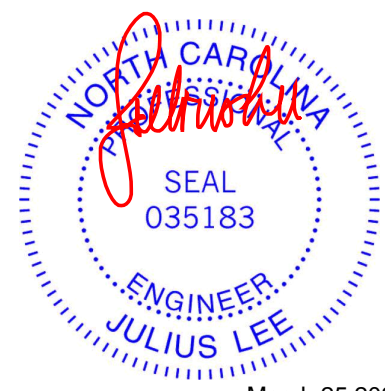
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 11=0-3-8
Max Horz 2=-150(LC 10)
Max Uplift 11=-131(LC 12)
Max Grav 2=1157(LC 17), 13=1423(LC 2), 11=309(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1684/0, 3-5=-1568/0, 5-6=-738/0
BOT CHORD 2-16=0/1507, 14-16=0/972, 12-13=-1398/0, 8-12=-436/151
WEBS 5-16=0/719, 5-14=-623/3, 12-14=0/726, 6-14=0/956, 6-12=-1075/0, 9-11=-254/124

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 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 28-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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, 10-4-0 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. 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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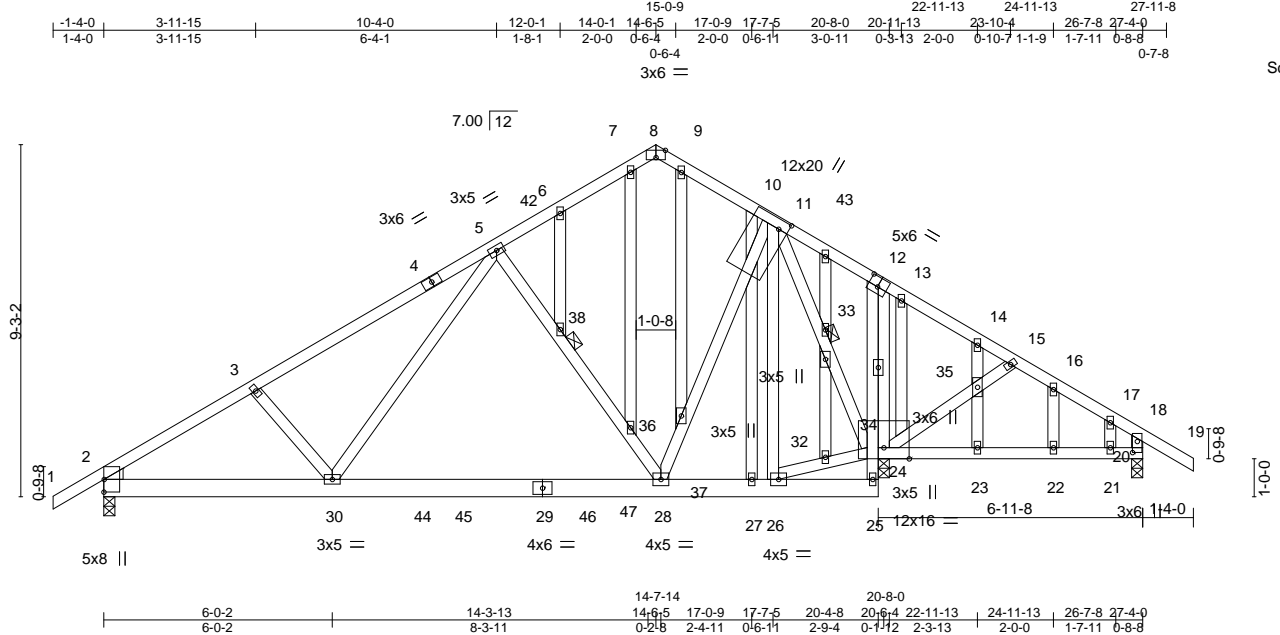
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss T3G	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232840
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:15 2022 Page 1

ID: tQlj0K5bXobraOovdZu2Jzzt7J5-ou1v3DqAcWgAScUM2Hz5JMmg2PKIXIV5L25wtwzXmNc



Scale = 1:60.6

Plate Offsets (X,Y)-- [8:0-2-15,Edge], [11:0-3-0,0-3-0], [12:0-3-0,0-3-0], [20:0-3-8,0-1-8]

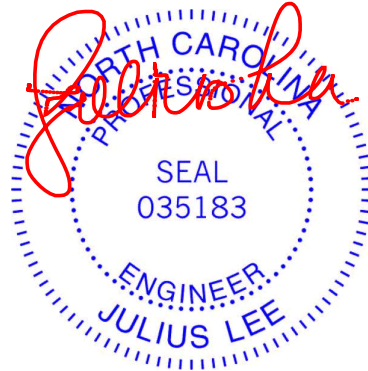
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.08 28-30	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.25 28-30	>983	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.01 24	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 248 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-29,25-29: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,22-23,21-22.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 33, 38
OTHERS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 24=0-3-8
 Max Horz 2=-149(LC 10)
 Max Uplift 20=-113(LC 12)
 Max Grav 2=1096(LC 17), 20=214(LC 24), 24=1644(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1581/0, 3-5=-1462/0, 5-6=-619/0, 6-7=-593/0, 7-8=-484/0, 8-9=-393/0,
 9-10=-606/0, 10-11=-631/0, 11-12=0/390, 12-13=0/428, 13-14=0/404, 14-15=0/324
 BOT CHORD 2-30=0/1425, 28-30=0/875
 WEBS 5-30=0/722, 5-38=-599/19, 36-38=-617/12, 28-36=-529/46, 24-34=-296/153,
 34-35=-305/155, 15-35=-292/145, 11-33=-1300/0, 24-33=-1106/0, 28-37=0/1160,
 11-37=0/849, 9-37=0/338

- 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; 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 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 28-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

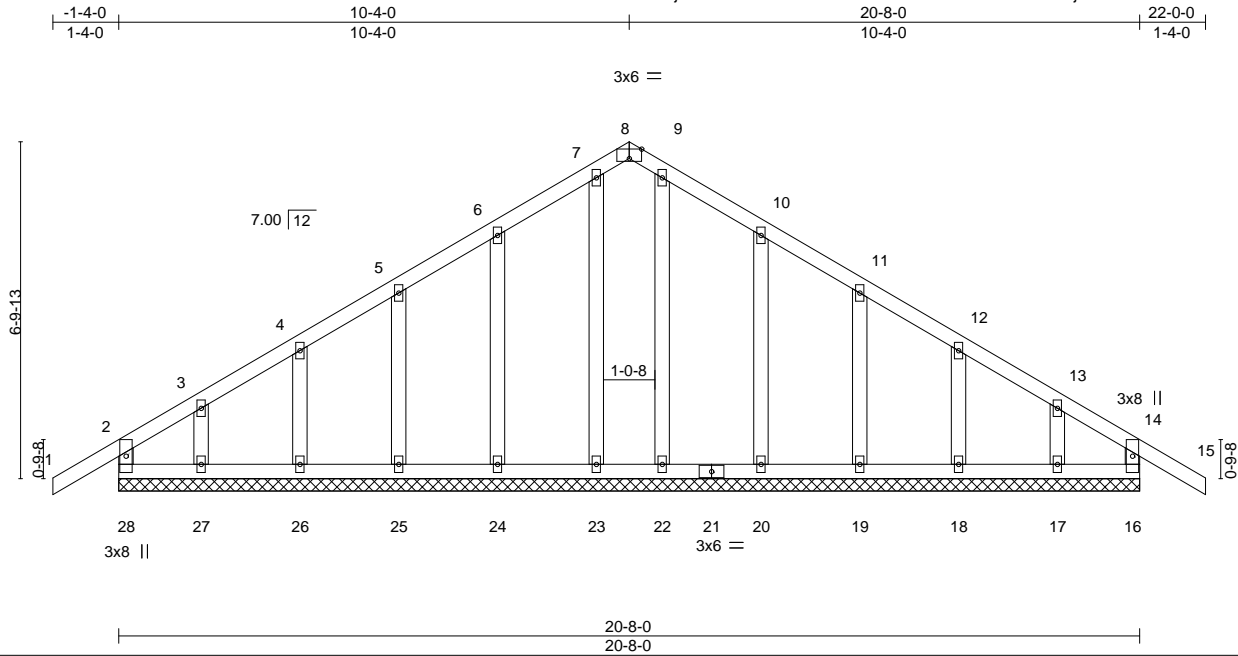


March 25, 2022

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

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

Job 22020381-01	Truss T2G	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232841
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:10 2022 Page 1
-1-4-0 10-4-0 20-8-0 22-0-0					Job Reference (optional)
1-4-0 10-4-0 10-4-0 1-4-0					ID:Qlj0K5bXobraOovdZu2Jzzt7J5-SwE00Wm1oz1uMrbOFjOwcl3ueOnNsBUMCnN9CjzXmNh



Scale = 1:46.6

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01 15 n/r 120	MT20	244/190		
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.01 15 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00 16 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 125 lb	FT = 20%

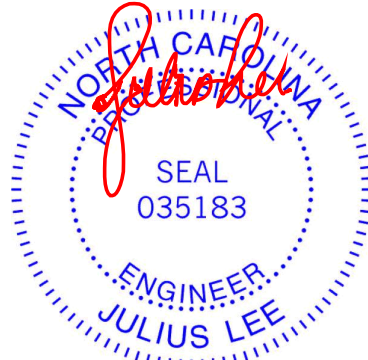
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 20-8-0.
(lb) - Max Horz 28=131 (LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 24, 25, 26, 27, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 28, 16, 23, 24, 25, 26, 27, 22, 20, 19, 18, 17

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; TCCL=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 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28, 16, 24, 25, 26, 27, 20, 19, 18, and 17. 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.



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.

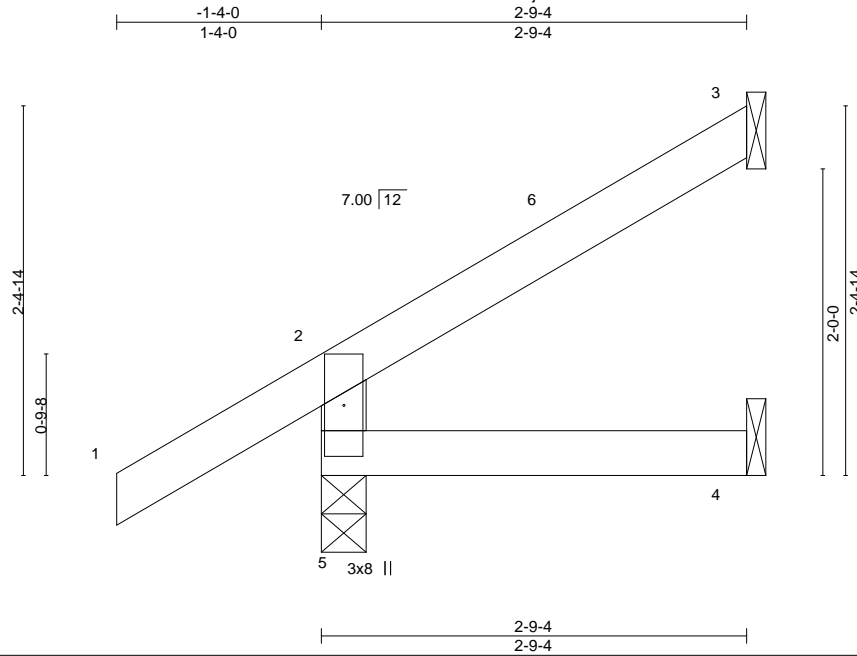
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 22020381-01	Truss J1	Truss Type JACK-OPEN	Qty 3	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232842
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:51 2022 Page 1
 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-VHbr10X6G8eaawekeEYTLneRkicw0ZqJGf2JzXmO_



Scale = 1:15.0

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 0.15	Vert(LL)	-0.00 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00 4-5	>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-MR					Weight: 12 lb	FT = 20%

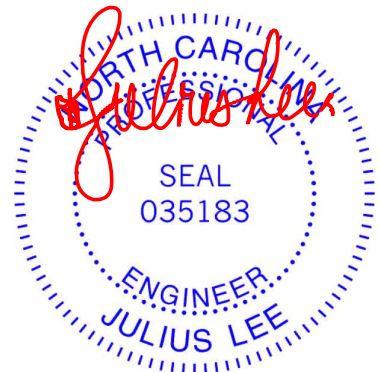
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=80(LC 12)
 Max Uplift 5=-27(LC 12), 3=-21(LC 12)
 Max Grav 5=217(LC 1), 3=58(LC 17), 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; 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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 5 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.



March 25, 2022

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818 Soundside Road
 Edenton, NC 27932

Job 22020381-01	Truss M1GR	Truss Type JACK-OPEN GIRDER	Qty 3	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232843
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8,530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:53 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jztt7J5-SfibSiZMolulpDo7IfaxQjsxSYt4NWKsidmm5CzXmNy

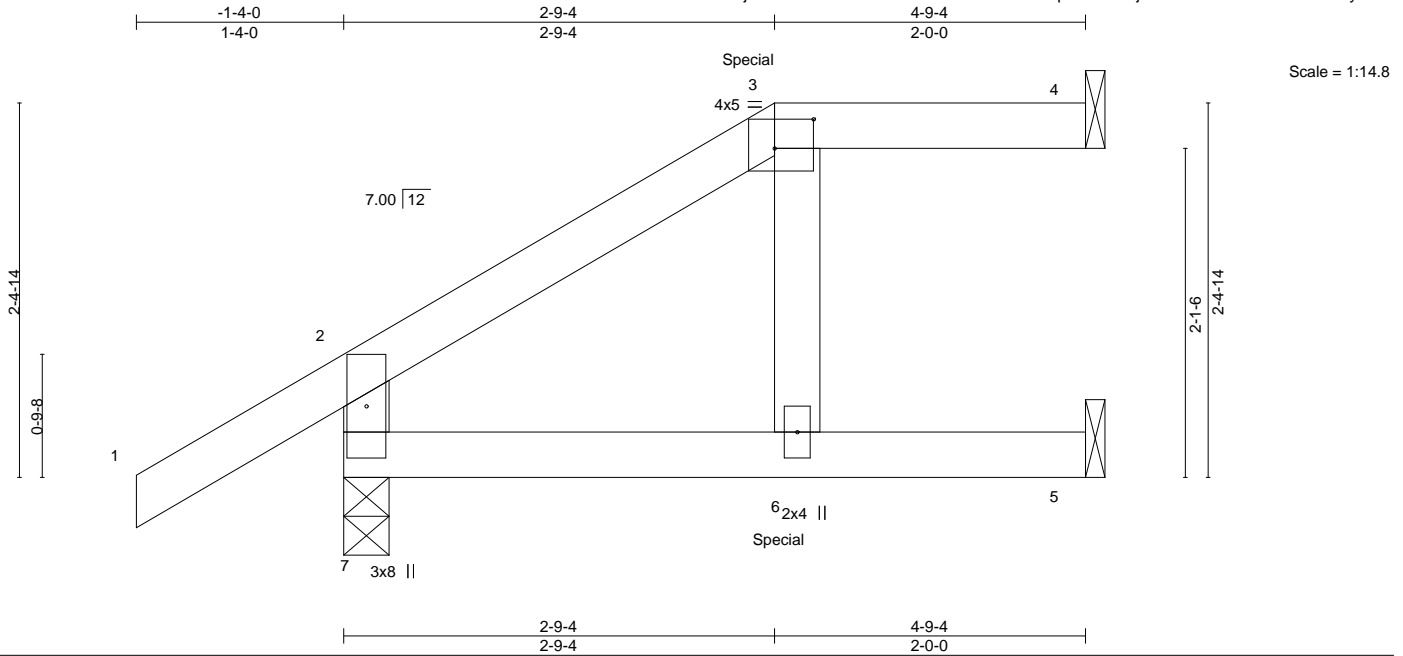


Plate Offsets (X,Y)-- [3:0-3-0,0-2-4]

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 0.37	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.08	6-7	>707	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.07	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 21 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 4-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=81(LC 8)
Max Uplift 7=-51(LC 8), 4=-31(LC 5), 5=-14(LC 5)
Max Grav 7=340(LC 1), 4=128(LC 1), 5=128(LC 31)

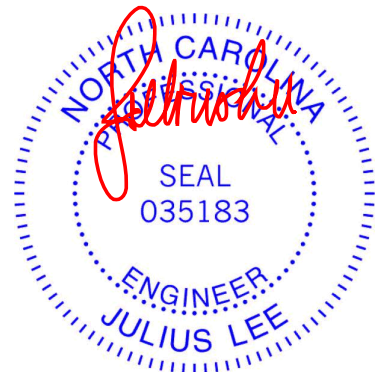
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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=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
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 37 lb up at 2-9-4 on top chord, and 128 lb down and 58 lb up at 2-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-9(F) 6=-128(F)



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



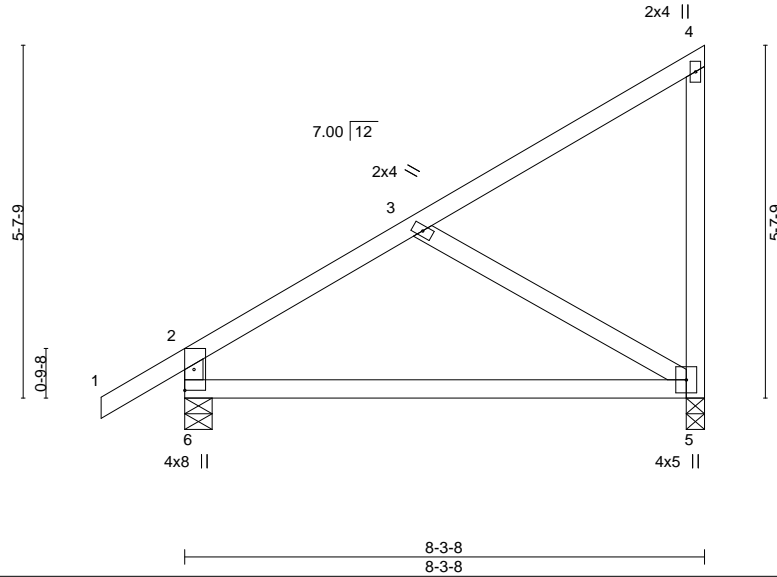
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss M1A	Truss Type MONOPITCH	Qty 9	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232844
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:52 2022 Page 1
ID: tQij0K5bXobraOovdZu2Jzzt7J5-zT8DFMYk1RmRC4DxCx3itVJj68WZe1Gi3z0CzIzXmNz



Scale = 1:36.8



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 0.54	Vert(LL)	0.24 5-6	>393	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.24 5-6	>395	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 44 lb	FT = 20%

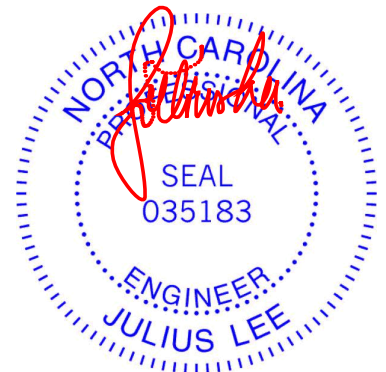
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 6=0-5-4, 5=0-3-8
Max Horz 6=158(LC 12)
Max Uplift 6=-68(LC 12), 5=-109(LC 12)
Max Grav 6=417(LC 1), 5=312(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-321/92, 2-6=-331/113

- NOTES-**
- 1) 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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-1-12 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) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 5. 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

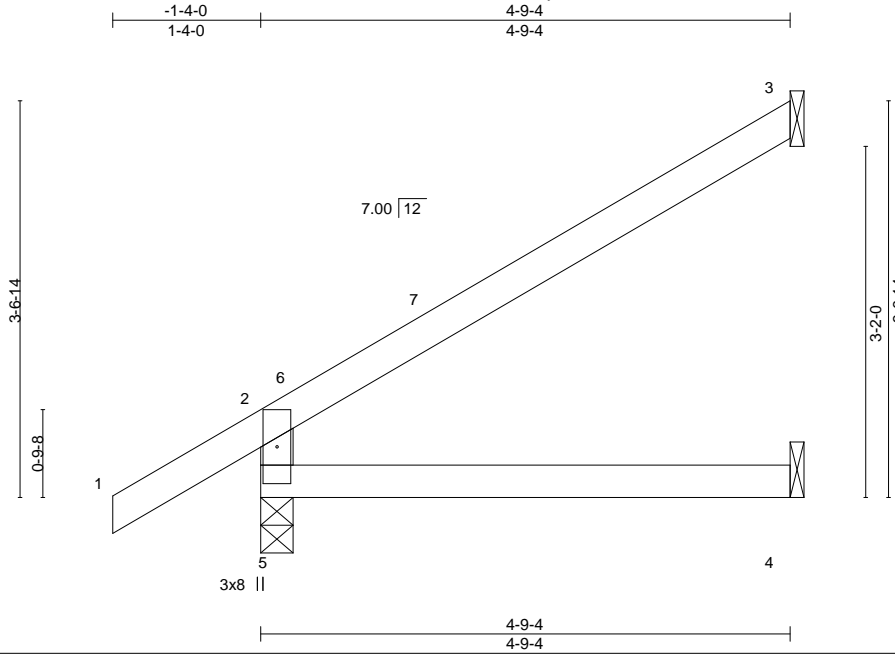
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 22020381-01	Truss M1	Truss Type JACK-OPEN	Qty 22	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232845
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:51 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-VHbr10X6G8eaawekeEYTLIncZkF6wc0ZqJGf2JzXmO_



Scale = 1:20.8

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 0.27	Vert(LL)	-0.02	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.04	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 18 lb	FT = 20%

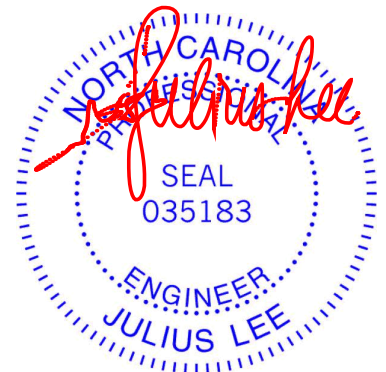
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=108(LC 12)
Max Uplift 5=-16(LC 12), 3=-41(LC 12)
Max Grav 5=286(LC 1), 3=119(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; 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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 5 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

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

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

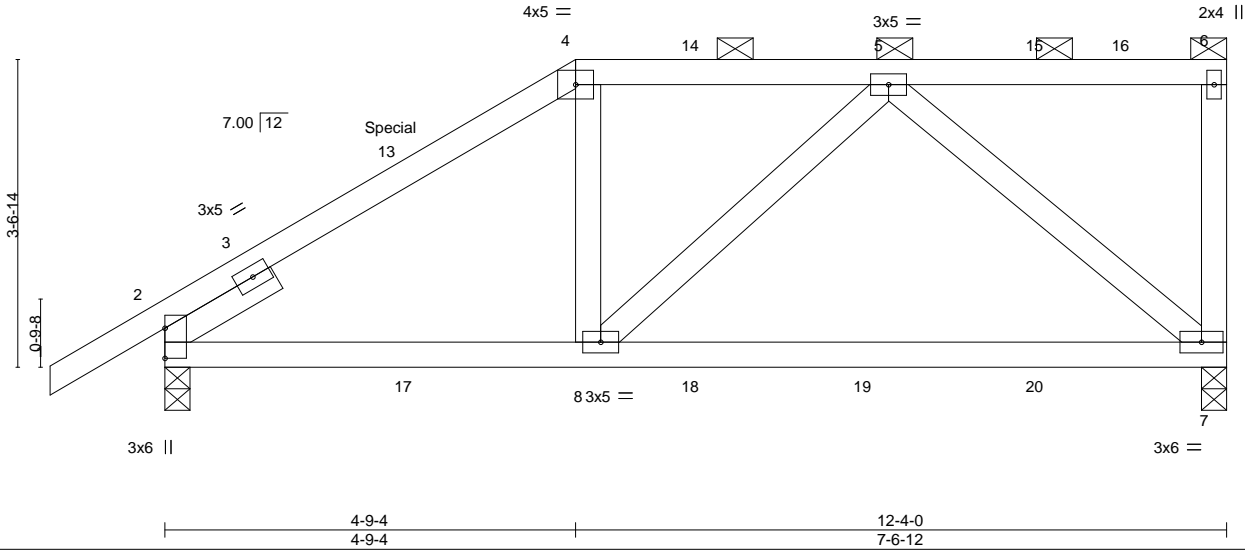
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1GRA	Truss Type Half Hip Girder	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232846
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:37 2022 Page 1
ID:1Qij0K5bXobraOovdZu2Jzzt7J5-wakY5EMKZqZvma2pIIAmLBAr5LPeAMVc8twY7zXmOC



Scale = 1:26.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) -0.13 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.26 7-8 >570 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0

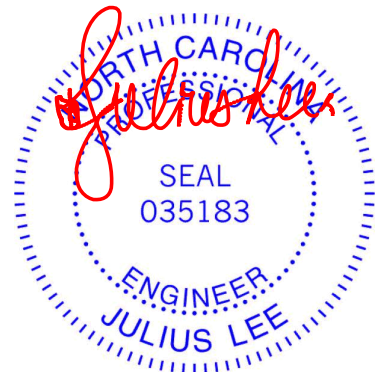
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=104(LC 7)
Max Uplift 2=-93(LC 8), 7=-111(LC 5)
Max Grav 2=842(LC 1), 7=825(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-974/66, 4-5=-773/78
BOT CHORD 2-8=-99/767, 7-8=-127/624
WEBS 4-8=0/253, 5-8=0/277, 5-7=-787/153

- 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); 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) 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 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) 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) 108 lb down and 60 lb up at 2-10-0, 81 lb down and 66 lb up at 4-9-4, 88 lb down and 62 lb up at 6-2-0, and 88 lb down and 62 lb up at 8-2-0, and 88 lb down and 62 lb up at 10-2-0 on top chord, and 103 lb down and 34 lb up at 2-10-0, 44 lb down at 4-10-0, 44 lb down at 6-2-0, and 44 lb down at 8-2-0, and 44 lb down at 10-2-0 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: 1-4=-60, 4-6=-60, 7-9=-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

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

Job 22020381-01	Truss H1GRA	Truss Type Half Hip Girder	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232846
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:37 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-wakY5EMKZqZvma2pIIAmLBAr5LPeAMVc8twY7zXmOC

LOAD CASE(S) Standard
Concentrated Loads (lb)

Vert: 4=-59(B) 6=-89(B) 8=-29(B) 5=-59(B) 13=-68(B) 14=-59(B) 15=-59(B) 17=-103(B) 18=-29(B) 19=-29(B) 20=-29(B)

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

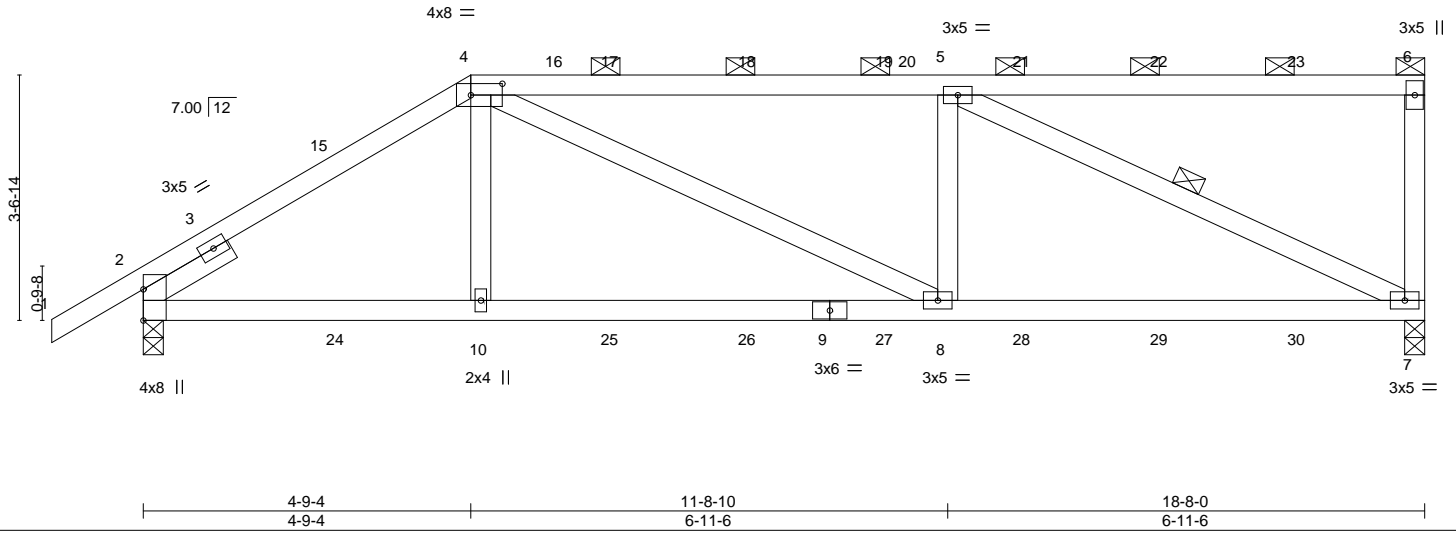


818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1GR	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232847
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:36 2022 Page 1
-1-4-0 1-4-0					11-8-10 6-11-6
4-9-4 4-9-4					18-8-0 6-11-6

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:36 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-ROBAuuMioXiiHc?sGanxE7fvYhzUvvgpLOU8M0hzXmOD

Scale = 1:33.6



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.84	Vert(LL)	in	(loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	WB	0.93	Vert(CT)	-0.09	7-8	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	BC	0.61	Horz(CT)	-0.20	8-10	>999	180			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS			0.04	7	n/a	n/a	Weight: 96 lb FT = 20%		

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0

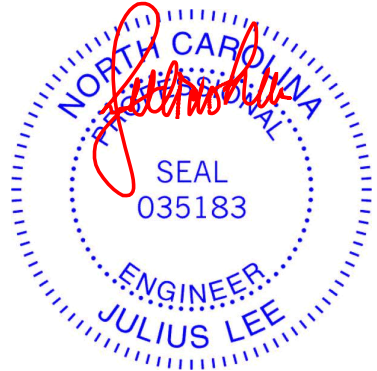
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=104(LC 7)
Max Uplift 7=-110(LC 5), 2=-118(LC 8)
Max Grav 7=1125(LC 1), 2=1225(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1614/121, 4-5=-1700/149
BOT CHORD 2-10=-162/1314, 8-10=-158/1322, 7-8=-190/1700
WEBS 4-10=0/324, 4-8=-38/418, 5-8=0/341, 5-7=-1826/183

- 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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 60 lb up at 2-10-0, 81 lb down and 66 lb up at 4-9-4, 88 lb down and 62 lb up at 6-10-0, 88 lb down and 62 lb up at 8-10-0, 88 lb down and 62 lb up at 10-10-0, 88 lb down and 62 lb up at 12-10-0, and 88 lb down and 62 lb up at 14-10-0, and 88 lb down and 62 lb up at 16-10-0 on top chord, and 103 lb down and 34 lb up at 2-10-0, 44 lb down at 4-10-0, 44 lb down at 6-10-0, 44 lb down at 8-10-0, 44 lb down at 10-10-0, 44 lb down at 12-10-0, and 44 lb down at 14-10-0, and 44 lb down at 16-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) 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



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 22020381-01	Truss H1GR	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232847
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:36 2022. Page 2
ID:tQlj0K5bXobraOovdZu2Jz7J5-ROBAuuMioXiiHc?sGanxE7fvYhzUvgpLOU8M0hzXmOD

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 4=-59(F) 10=-29(F) 15=-68(F) 17=-59(F) 18=-59(F) 19=-59(F) 21=-59(F) 22=-59(F) 23=-59(F) 24=-103(F) 25=-29(F) 26=-29(F) 27=-29(F) 28=-29(F) 29=-29(F) 30=-29(F)

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 22020381-01	Truss H1E	Truss Type HALF HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232848
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:34 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-V?3PTCKSGwV?2lRT89kT9jZe6tOCRjp3wAfFoxzXmOF

Job Reference (optional)



Scale = 1:34.0

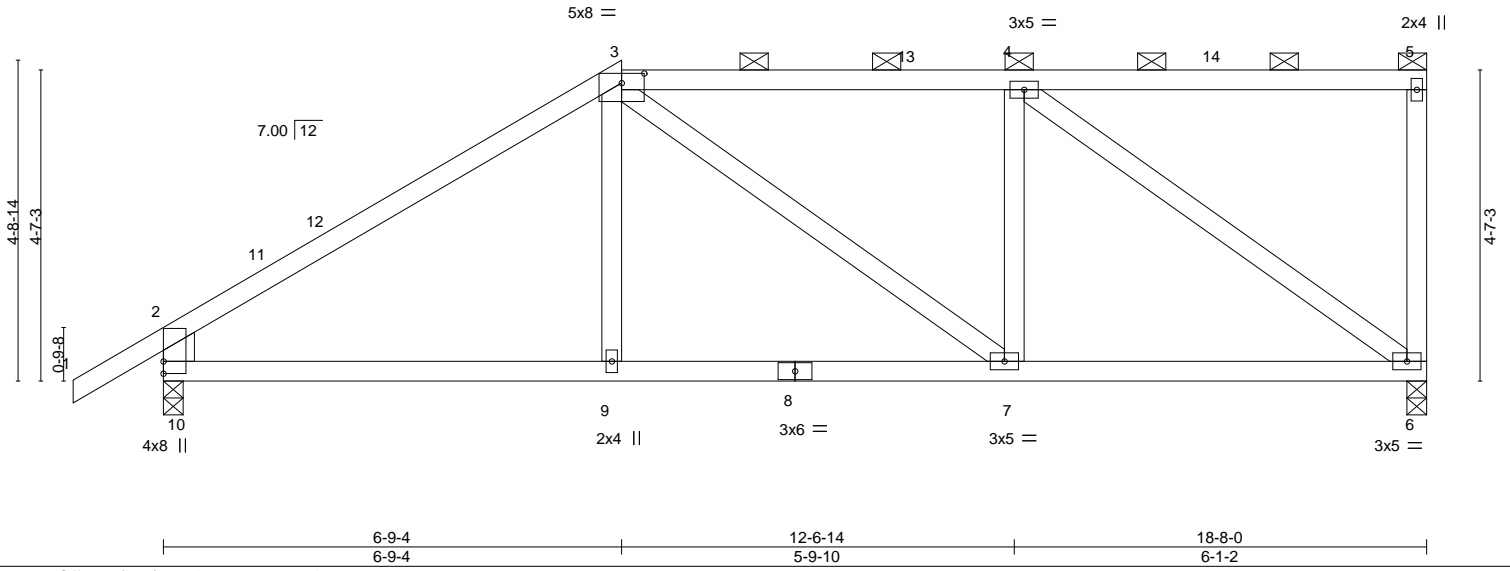


Plate Offsets (X,Y)-- [3:0-4-0,0-1-11]

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 0.64	Vert(LL)	-0.04	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.09	7-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 99 lb	FT = 20%

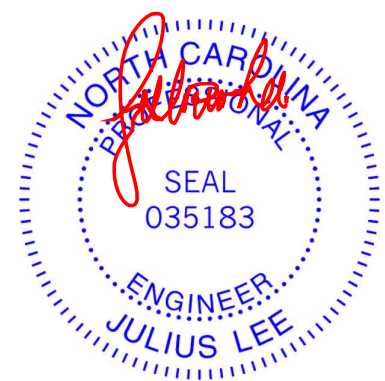
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-10: 2x6 SP No.2

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

REACTIONS. (size) 6=0-3-8, 10=0-3-8
Max Horz 10=139(LC 11)
Max Uplift 6=-72(LC 9), 10=-43(LC 12)
Max Grav 6=728(LC 1), 10=829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-955/28, 3-4=-742/49, 2-10=-748/85
BOT CHORD 9-10=-95/725, 7-9=-97/722, 6-7=-100/740
WEBS 4-7=0/250, 4-6=-880/87

- 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 6-9-4, Exterior(2R) 6-9-4 to 11-0-3, Interior(1) 11-0-3 to 18-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) 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) 6 and 10. 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.

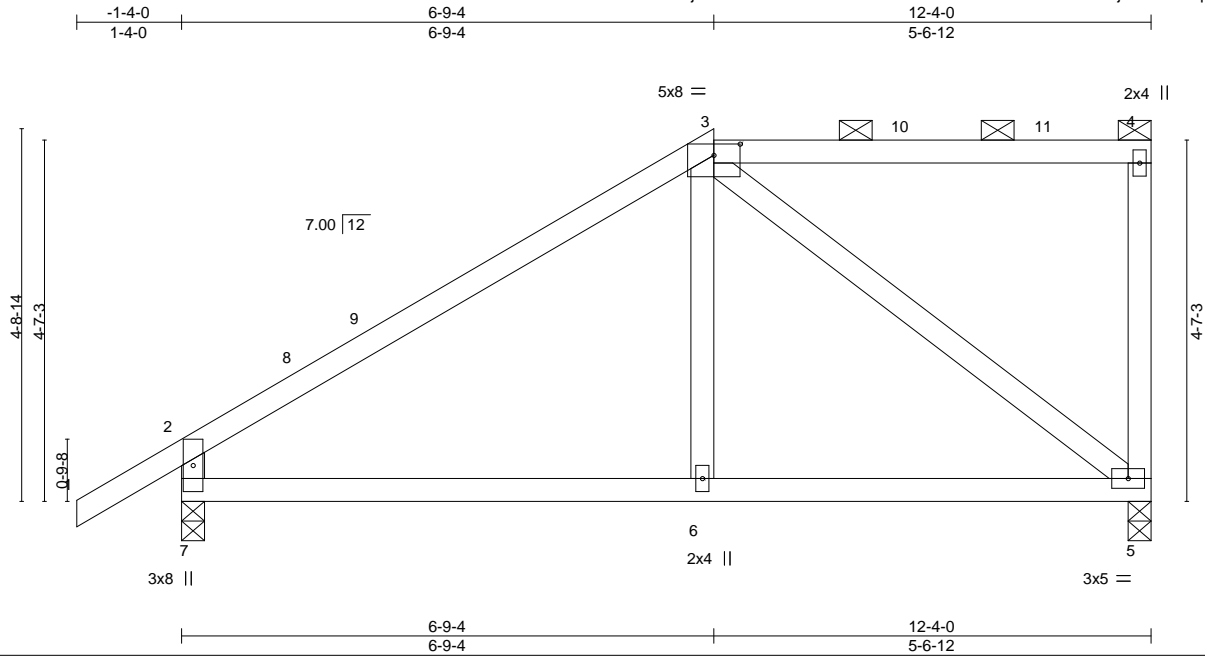


March 25, 2022

Job 22020381-01	Truss H1EA	Truss Type HALF HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232849
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:34 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-V?3PTCKSGwV?2lrT89kT9jZemtQFRqJ3wAfFxoZxMOf



Scale = 1:29.3

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

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 0.60	Vert(LL)	-0.03	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.07	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 63 lb	FT = 20%

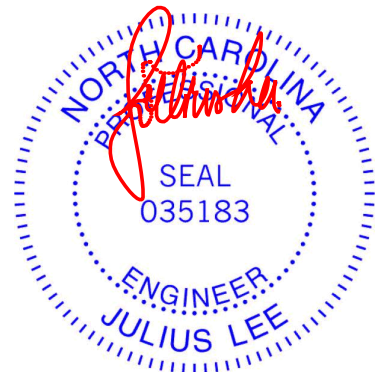
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 5=0-3-8
Max Horz 7=138(LC 11)
Max Uplift 7=-39(LC 12), 5=-45(LC 9)
Max Grav 7=576(LC 1), 5=476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-536/54, 2-7=-514/119
BOT CHORD 6-7=-115/374, 5-6=-117/370
WEBS 3-6=0/266, 3-5=-445/103

- 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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-9-4, Exterior(2R) 6-9-4 to 11-0-3, Interior(1) 11-0-3 to 12-2-4 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
 - 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) 7 and 5. 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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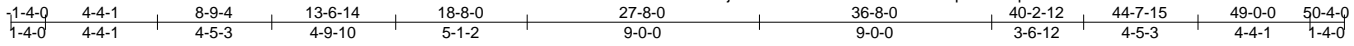
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1D	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232850
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:33 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-1pV1FsJqVcN8Q9GHaSDecV1TGUxPIE1vhWvIPMzXmOG



Scale = 1:89.3

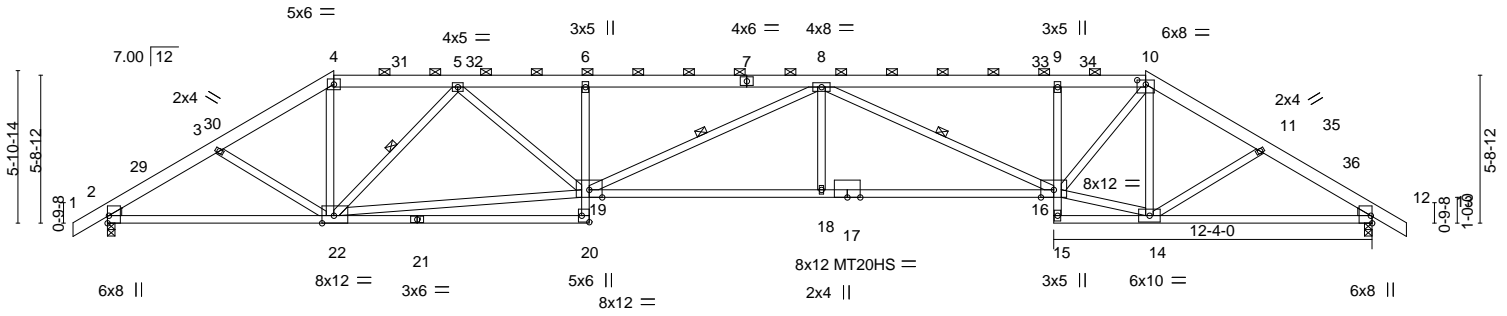


Plate Offsets (X,Y)--	[2:Edge,0-0-10], [10:0-4-0,0-2-0], [12:Edge,0-0-10], [20:Edge,0-3-8], [22:0-5-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.48 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-1.04 18-19	>568	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.34 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 329 lb	FT = 20%

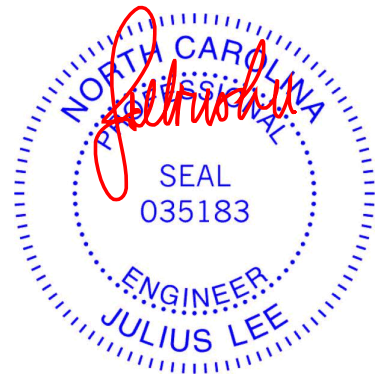
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
17-19: 2x4 SP 2400F 2.0E, 16-17: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
14-16,19-22: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (2-8-5 max.): 4-10.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-19, 8-16, 5-22

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-99(LC 10)
Max Uplift 2=-48(LC 12), 12=-48(LC 12)
Max Grav 2=2040(LC 1), 12=2040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3118/59, 3-4=-3061/54, 4-5=-2649/68, 5-6=-5160/84, 6-8=-5240/81, 8-9=-4188/72,
9-10=-4137/75, 10-11=-3044/61, 11-12=-3124/63
BOT CHORD 2-22=0/2542, 20-22=0/417, 6-19=-452/93, 18-19=0/5531, 16-18=0/5531, 9-16=-464/86,
12-14=0/2555
WEBS 3-22=0/267, 4-22=0/1115, 8-19=-392/0, 8-18=0/411, 8-16=-1555/8, 14-16=0/2637,
10-16=0/2401, 10-14=-645/17, 5-22=-1868/49, 19-22=0/3486, 5-19=0/1711

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-9-4, Exterior(2R) 8-9-4 to 13-0-3, Interior(1) 13-0-3 to 40-2-12, Exterior(2R) 40-2-12 to 44-5-11, Interior(1) 44-5-11 to 50-4-0 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates 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.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. 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

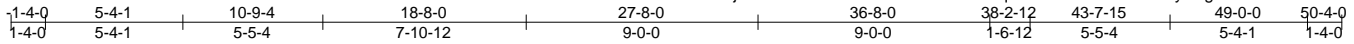


Job 22020381-01	Truss H1C	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232851
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:31 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-5QNhQAIzZ77QAr6uT1BmX4y8wgFxEEMrECQbLTzXmOI



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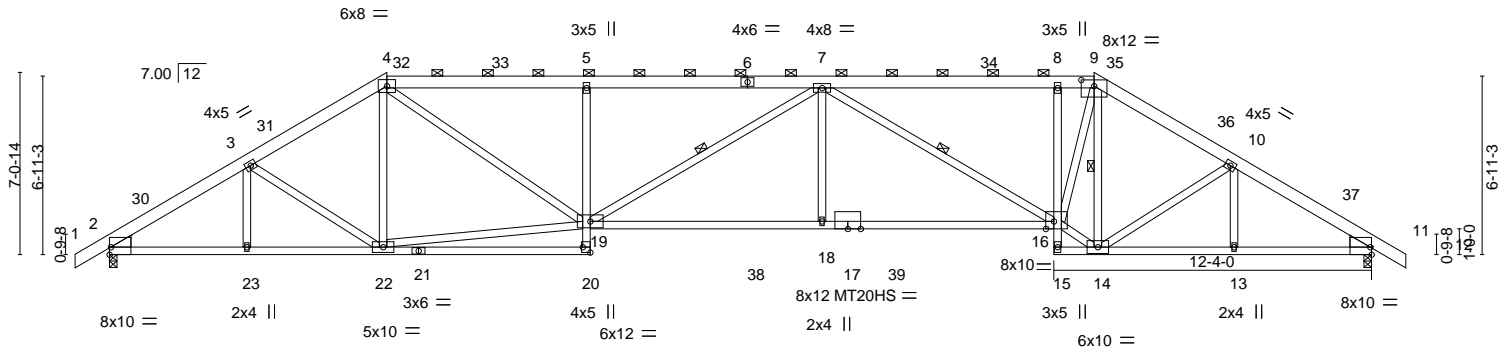


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [9:0-6-0,0-2-14], [11:Edge,0-3-8], [16:0-3-12,Edge], [20:Edge,0-3-8]

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 0.57	Vert(LL)	-0.47 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.89 18-19	>664	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.32 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 345 lb	FT = 20%

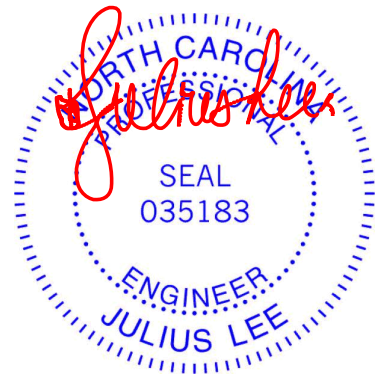
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
5-20,8-15: 2x4 SP No.3, 17-19: 2x4 SP 2400F 2.0E
20-21: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
19-22,7-19,7-16,14-16,9-16: 2x4 SP No.2

WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-119(LC 10)
Max Uplift 2=-48(LC 12), 11=-48(LC 12)
Max Grav 2=2246(LC 17), 11=2257(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3480/48, 3-4=-3267/79, 4-5=-4514/96, 5-7=-4550/92, 7-8=-3638/84, 8-9=-3594/87,
9-10=-3281/85, 10-11=-3505/45
BOT CHORD 2-23=0/2959, 22-23=0/2959, 5-19=-534/109, 18-19=0/4864, 16-18=0/4864, 8-16=-389/99,
13-14=0/2891, 11-13=0/2891
WEBS 19-22=0/2674, 4-19=-3/2113, 7-19=-415/0, 7-18=0/514, 7-16=-1486/4, 14-16=0/3308,
9-16=0/2983, 9-14=-1533/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-9-4, Exterior(2R) 10-9-4 to 15-0-3, Interior(1) 15-0-3 to 38-2-12, Exterior(2R) 38-2-12 to 42-5-11, Interior(1) 42-5-11 to 50-4-0 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) 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, with BCDL = 10.0psf.
 - 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 22020381-01	Truss H1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232852
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:29 2022 Page 1
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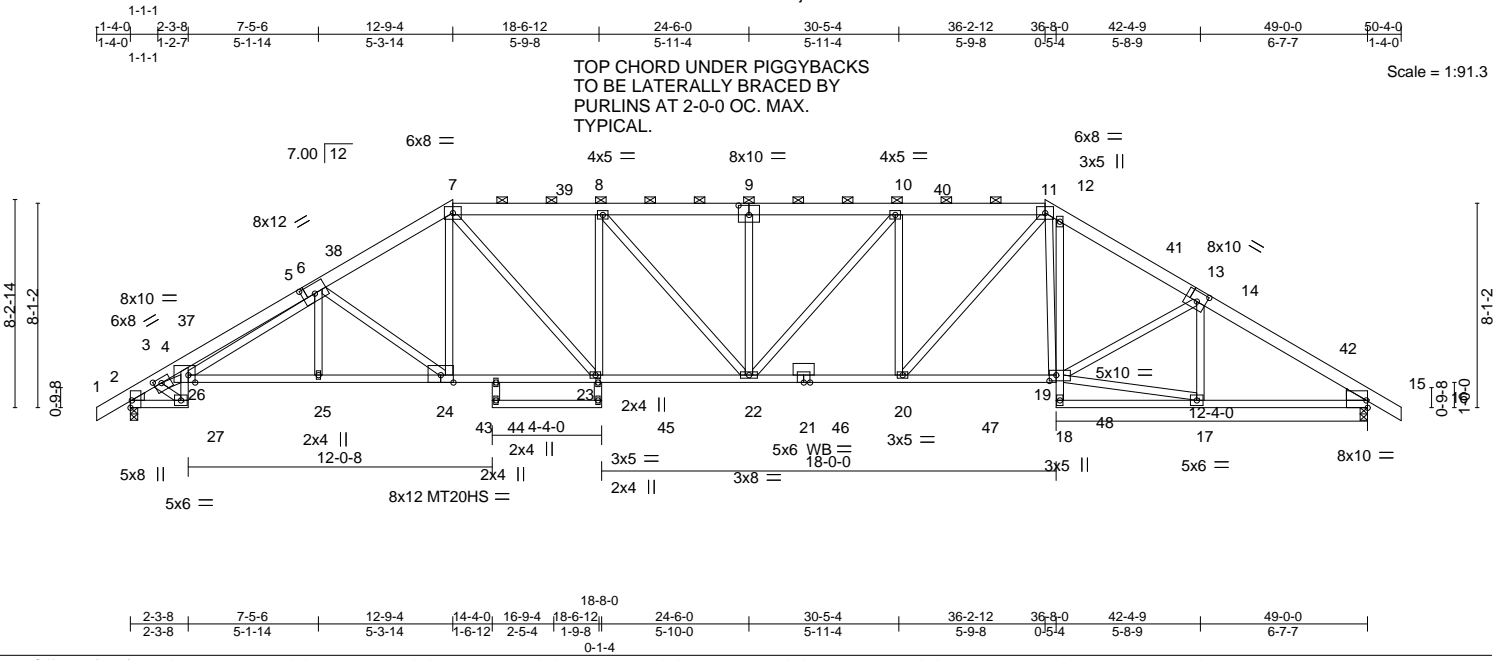


Plate Offsets (X,Y)-- [2:Edge,0-0-10], [3:0-3-8,0-2-4], [4:0-3-4,Edge], [5:0-6-0,0-4-8], [9:0-5-0,0-4-8], [13:0-4-4,0-4-8], [15:Edge,0-3-8], [19:0-3-4,0-2-12]

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 0.51	Vert(LL)	-0.35 22-23	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.63 22-23	>930	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.40 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 377 lb	FT = 20%

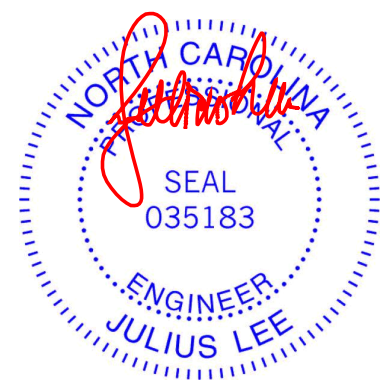
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
13-16,1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1 *Except*
2-27: 2x4 SP No.2, 28-29,29-30,23-30,12-18: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
17-19,3-26: 2x4 SP No.2
OTHERS 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-6-8 max.): 7-11.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 15=0-3-8
Max Horz 2=-139(LC 10)
Max Uplift 2=-48(LC 12), 15=-48(LC 12)
Max Grav 2=2287(LC 17), 15=2287(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2718/13, 3-4=-5702/5, 4-6=-6095/39, 6-7=-3743/84, 7-8=-3833/99, 8-9=-4032/100,
9-10=-4032/100, 10-11=-3818/99, 11-12=-3496/104, 12-14=-3673/82, 14-15=-3574/51
BOT CHORD 2-27=0/1925, 26-27=0/1435, 4-26=0/577, 15-17=0/2951, 25-26=0/3973, 24-25=0/3976,
23-24=0/3184, 22-23=0/3885, 20-22=0/3835, 19-20=0/3085
WEBS 3-27=-1869/0, 6-24=-925/54, 17-19=0/2851, 14-19=0/326, 14-17=-378/64, 3-26=0/4105,
6-26=0/1750, 7-24=0/769, 9-22=-358/73, 8-23=-686/78, 10-20=-671/80, 7-23=-4/1178,
8-22=-3/403, 10-22=-3/402, 11-20=-2/1174, 11-19=-22/513

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-9-4, Exterior(2R) 12-9-4 to 17-0-3, Interior(1) 17-0-3 to 36-2-12, Exterior(2R) 36-2-12 to 40-5-11, Interior(1) 40-5-11 to 50-4-0 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates 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, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. 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.



March 25, 2022

Continued on page 2

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

Job 22020381-01	Truss H1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232852
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:30 2022 Page 2
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NOTES-

- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

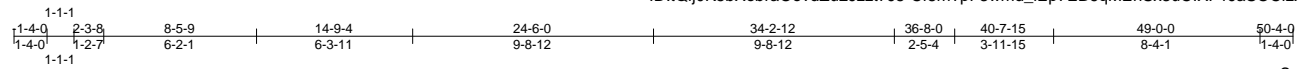


818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232853
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:27 2022 Page 1
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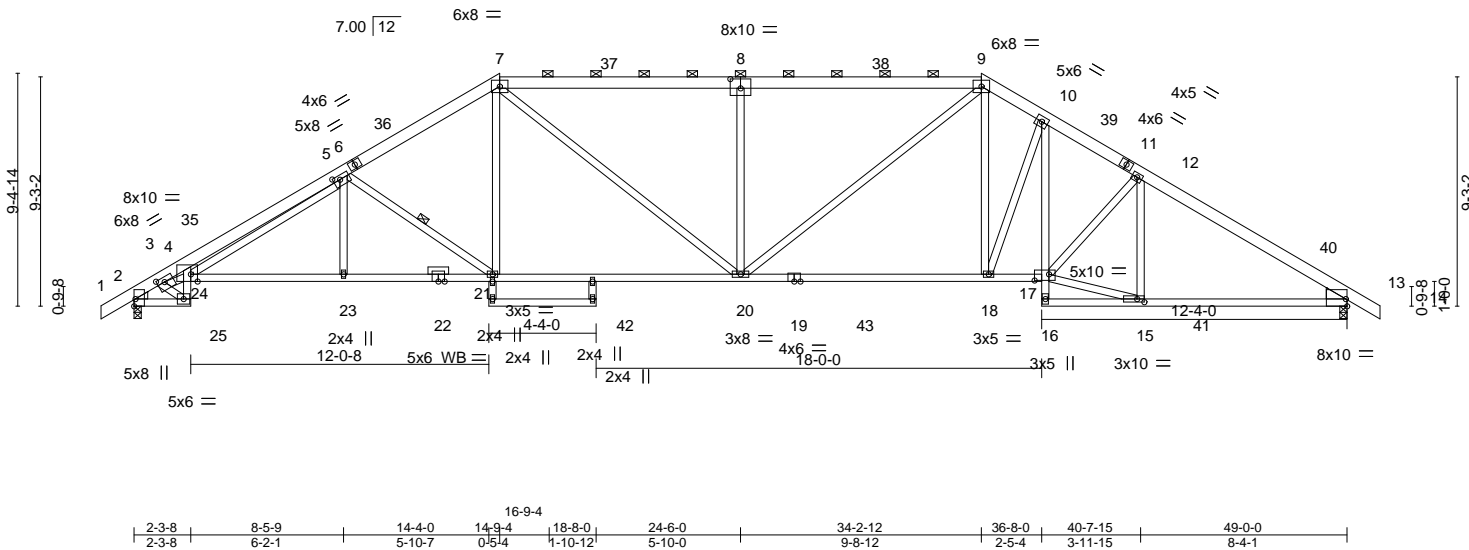


Plate Offsets (X,Y)--	[2:Edge,0-0-10], [3:0-3-8,0-2-4], [4:0-3-4,Edge], [5:0-3-4,0-2-0], [8:0-5-0,0-4-8], [13:Edge,0-3-8], [15:0-3-8,0-1-8], [17:0-7-0,0-3-0]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.42 20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.75 20-21	>784	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.38 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 362 lb	FT = 20%

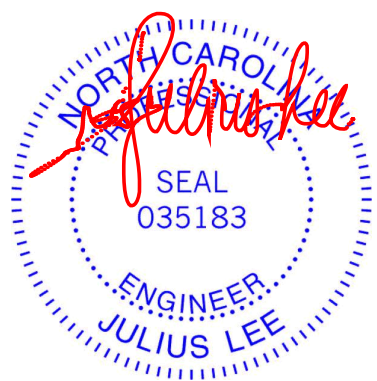
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
 1-6,11-14: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1 *Except*
 2-25: 2x4 SP No.2, 21-26,26-27,27-28,10-16: 2x4 SP No.3
 19-22: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
 7-20,9-20,15-17,3-24: 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
 Left: 2x4 SP No.3, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-4-15 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-21

REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=-158(LC 10)
 Max Uplift 2=-48(LC 12), 13=-48(LC 12)
 Max Grav 2=2297(LC 17), 13=2321(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2731/12, 3-4=-5736/15, 4-5=-6181/54, 5-7=-3530/93, 7-8=-3538/113,
 8-9=-3538/113, 9-10=-3402/97, 10-12=-3681/96, 12-13=-3585/59
BOT CHORD 2-25=0/1950, 24-25=0/1464, 4-24=0/541, 10-17=-53/530, 13-15=0/2959, 23-24=0/3850,
 21-23=0/3853, 20-21=0/3036, 18-20=0/2966, 17-18=0/3099
WEBS 3-25=-1912/0, 5-23=0/264, 5-21=-973/67, 8-20=-670/135, 7-20=-6/888, 9-20=-7/854,
 9-18=0/826, 10-18=-438/58, 15-17=0/2817, 12-17=0/343, 12-15=-556/64, 3-24=0/4142,
 5-24=-5/1962, 7-21=0/895

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-9-4, Exterior(2R) 14-9-4 to 19-0-3, Interior(1) 19-0-3 to 34-2-12, Exterior(2R) 34-2-12 to 38-5-11, Interior(1) 38-5-11 to 50-4-0 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) 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 13. 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

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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 Edenton, NC 27932

Job 22020381-01	Truss H1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232853
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:28 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-gri8C9Fhh4lrJNOJovd3vSKdhTER1_VAYECxk8zXmOL

NOTES-

- 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.

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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Edenton, NC 27932

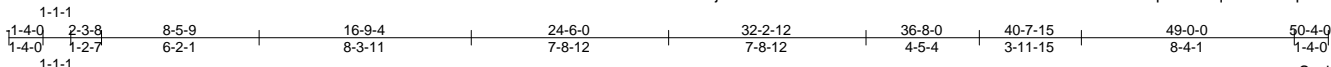
Job 22020381-01	Truss H1	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232854
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Carter Components (Lexington), Lexington, NC - 27295,

8,530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:25 2022 Page 1

ID:1QIj0K5bXobraOovdZu2Jzz7J5-GG00a7DoO9NGSvfi6m4MHpi6vFDtqtkshzH7pzXmOO

Job Reference (optional)



Scale = 1:90.2

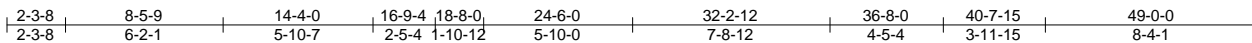
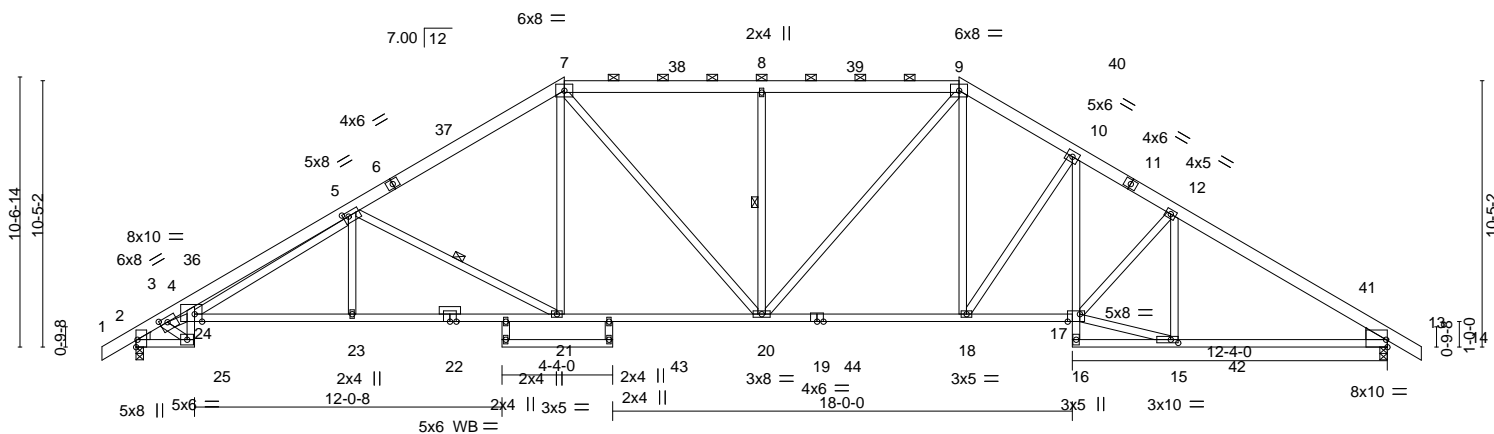


Plate Offsets (X,Y)-- [2:Edge,0-0-10], [3:0-3-8,0-2-4], [4:0-3-8,Edge], [5:0-2-8,0-2-0], [13:Edge,0-3-8], [15:0-3-8,0-1-8], [17:0-5-12,Edge]

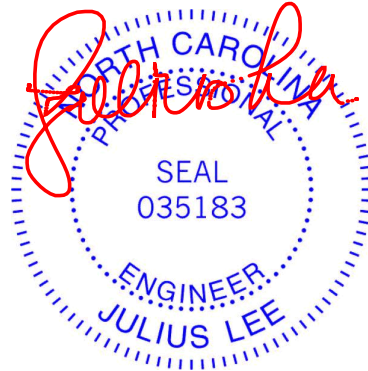
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.33 20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.59 20-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.39 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 371 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-6,11-14: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-3 max.): 7-9.
BOT CHORD 2x4 SP No.1 *Except* 2-25: 2x4 SP No.2, 26-27,27-28,28-29,10-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 7-20,9-20,15-17,3-24: 2x4 SP No.2	WEBS 1 Row at midpt 5-21, 8-20
OTHERS WEDGE Left: 2x4 SP No.3 , Right: 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=178(LC 11)
 Max Uplift 2=-48(LC 12), 13=-48(LC 12)
 Max Grav 2=2290(LC 17), 13=2314(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2721/13, 3-4=-5716/4, 4-5=-6113/40, 5-7=-3302/102, 7-8=-3042/125,
 8-9=-3042/125, 9-10=-3206/115, 10-12=-3679/97, 12-13=-3569/59
 BOT CHORD 2-25=0/1957, 24-25=0/1467, 4-24=0/577, 10-17=-10/670, 13-15=0/2944, 23-24=0/3893,
 21-23=0/3896, 20-21=0/2823, 18-20=0/2743, 17-18=0/3112
 WEBS 3-25=-1914/0, 5-23=0/335, 5-21=-1194/83, 8-20=-535/101, 7-20=-11/627, 9-20=-10/612,
 9-18=0/904, 10-18=-738/61, 15-17=0/2886, 12-17=0/341, 12-15=-567/60, 3-24=0/4131,
 5-24=0/1868, 7-21=0/881

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-4, Exterior(2R) 16-9-4 to 21-0-3, Interior(1) 21-0-3 to 32-2-12, Exterior(2R) 32-2-12 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 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) 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 13. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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



Job 22020381-01	Truss H1	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232854
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:25 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-GG00a7DoO9NGSwf6m4MHpi6vFDfqtksHzH7pzXmOO

NOTES-

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

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 22020381-01	Truss T1D	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232855
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:09 2022 Page 2
ID:tQJj0K5bXobraOovdZu2Jzzt7J5-_kgepAIP1gv1kh0Ch0sh35Wdo_Ew7WQCz7ecgGzXmNi

NOTES-

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

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

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



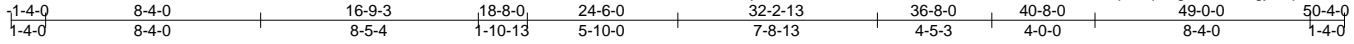
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss T1C	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232856
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Carter Components (Lexington), Lexington, NC - 27295,

8,530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:07 2022 Page 1

ID:1Qij0K5bXobraOovdZu2Jzzt7J5-1MYuOUk8v2fJVNtpabqD_gRHJBX?fgjvWp9VbOzXmNk



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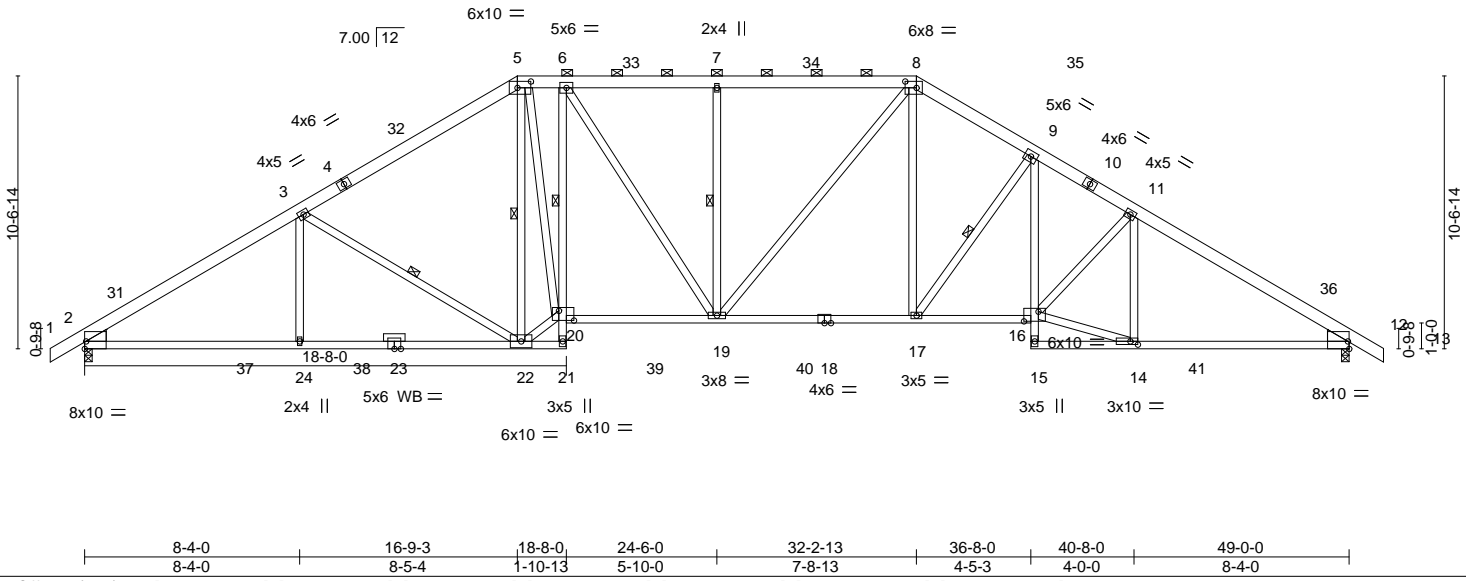


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-4,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [16:0-6-12,0-4-8], [20:0-7-0,0-4-8]

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 0.54	Vert(LL)	-0.31 17-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.55 17-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.27 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 381 lb	FT = 20%

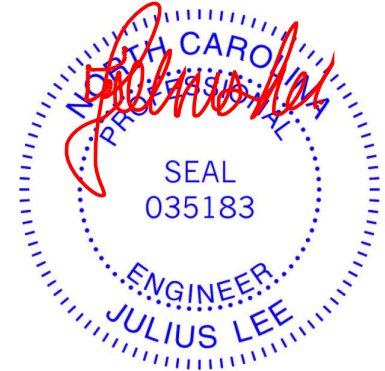
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
6-21,9-15: 2x4 SP No.3, 18-20: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
20-22,6-19,8-19,14-16: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-0-8 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-20
WEBS 1 Row at midpt 3-22, 5-22, 7-19, 9-17

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 2=-48(LC 12), 12=-48(LC 12)
Max Grav 2=2334(LC 17), 12=2319(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3646/61, 3-5=-2955/120, 5-6=-2797/125, 6-7=-3005/126, 7-8=-3005/126,
8-9=-3176/115, 9-11=-3793/93, 11-12=-3579/60
BOT CHORD 2-24=0/3153, 22-24=0/3153, 6-20=-457/49, 19-20=0/2878, 17-19=0/2728, 16-17=0/3201,
9-16=-1/838, 12-14=0/2954
WEBS 3-24=0/391, 3-22=-706/89, 5-22=-829/0, 20-22=0/2932, 5-20=0/1750, 6-19=-8/514,
7-19=-483/94, 8-19=-13/584, 8-17=0/941, 9-17=-932/55, 14-16=0/2960, 11-16=0/440,
11-14=-679/56

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 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
 - 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 12. 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.
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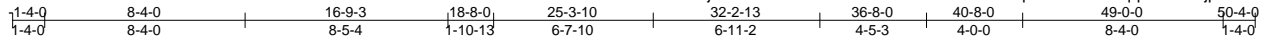
ENGINEERING BY
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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss T1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232857
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:03 2022 Page 1

ID:Qlj0K5bXobraOovdZu2Jzzt7J5-9aJNY7heRq9t0mZ2LmHqqGcwZB4jpYKbBBIsdzXmNo



Scale: 1/8"=1'

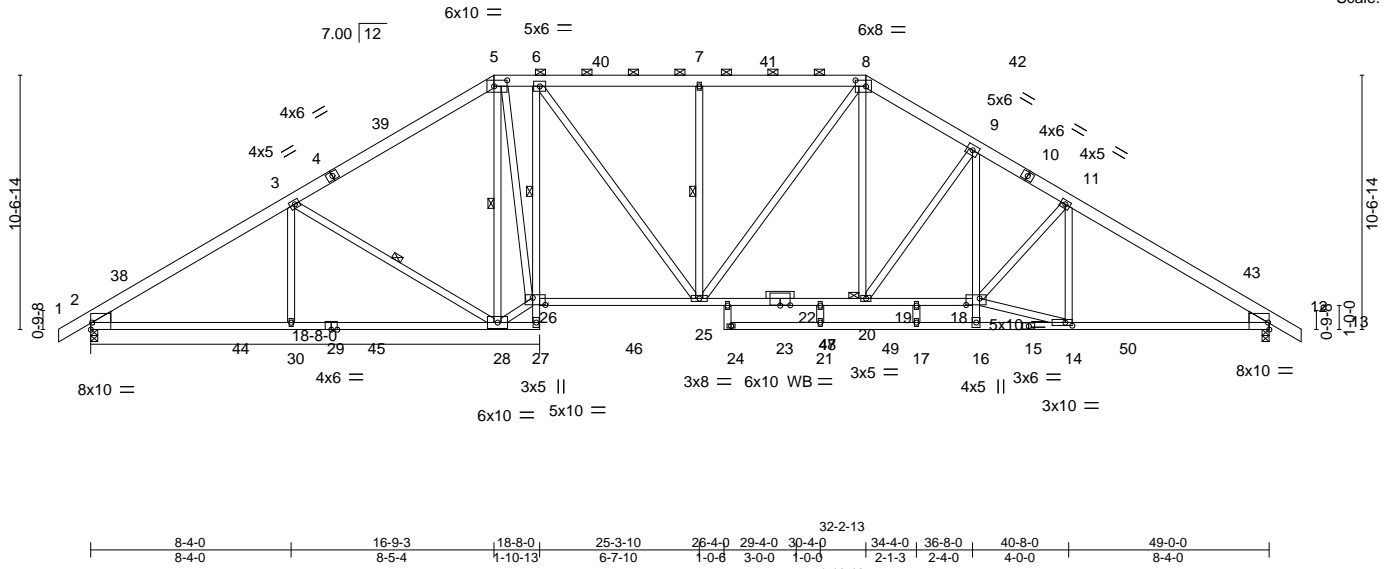


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-8,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [18:0-6-12,0-3-4], [23:0-4-15,0-0-3], [26:0-6-4,0-3-8]

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 0.57	Vert(LL)	-0.63	24	>938	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-1.15	24	>513		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.25	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 400 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E *Except*
6-27,9-16: 2x4 SP No.3, 27-29: 2x4 SP No.1, 15-24: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
26-28,6-25,8-25,14-18: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2, Right: 2x6 SP No.2

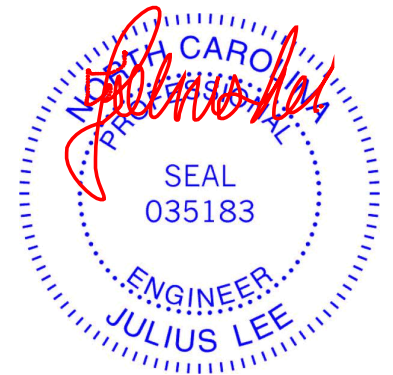
BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-9-12 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-26
10-0-0 oc bracing: 22-25
WEBS 1 Row at midpt 3-28, 5-28, 7-25
JOINTS 1 Brace at Jt(s): 20

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 2=-29(LC 12), 12=-22(LC 12)
Max Grav 2=2442(LC 17), 12=2495(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3843/26, 3-5=-3161/84, 5-6=-3018/90, 6-7=-3300/72, 7-8=-3300/72, 8-9=-3566/53,
9-11=-4046/44, 11-12=-3898/0
BOT CHORD 2-30=0/3321, 28-30=0/3321, 6-26=-525/40, 25-26=0/3100, 22-25=0/3055, 20-22=0/3055,
19-20=0/3429, 18-19=0/3429, 9-18=-24/635, 14-16=0/316, 12-14=0/3226
WEBS 3-30=0/386, 3-28=-695/91, 5-28=-932/0, 26-28=0/3120, 5-26=0/1982, 6-25=0/610,
7-25=-466/91, 8-25=-12/595, 14-18=0/3013, 11-18=0/400, 11-14=-581/52, 8-20=0/1165,
9-20=-774/77, 21-22=0/361

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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 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
- 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, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. 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 sheathing 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



Job 22020381-01	Truss T1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232857
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:03 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jz7J5-9aJNY7heRq9t0mZ2LmHqqGcwZB4jpYKbBBISdzXmNo

NOTES-

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

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

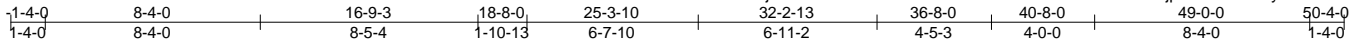
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 22020381-01	Truss T1	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232858
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:01 2022 Page 1
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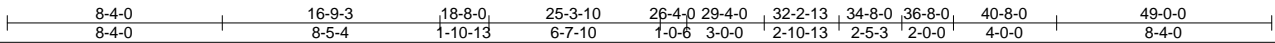
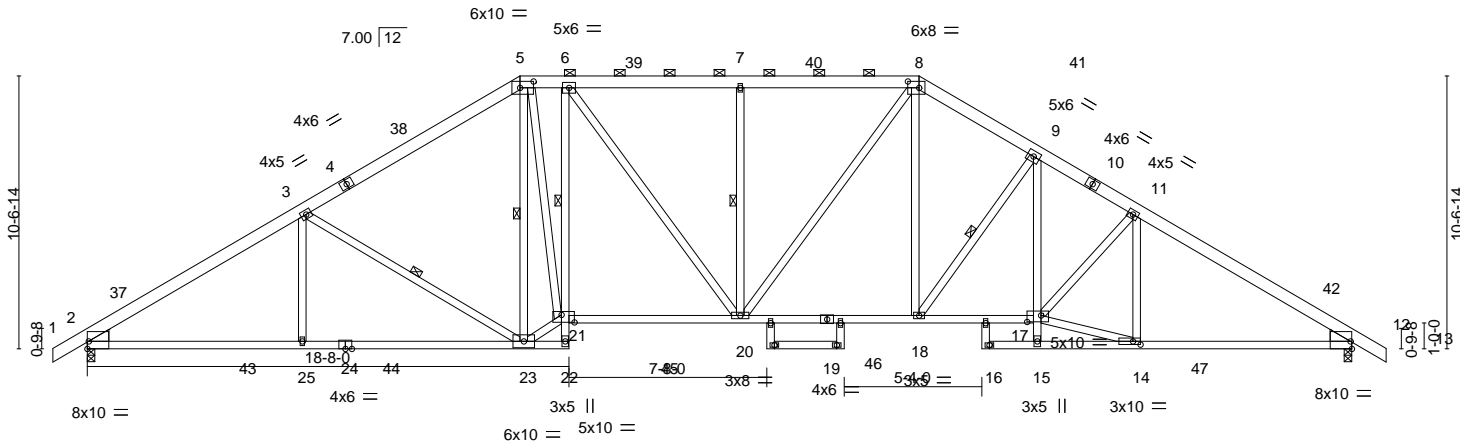


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-4,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [17:0-6-8,0-3-0], [21:0-6-0,0-3-8]

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 0.55	Vert(LL)	-0.30 20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.54 20-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.27 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 391 lb	FT = 20%

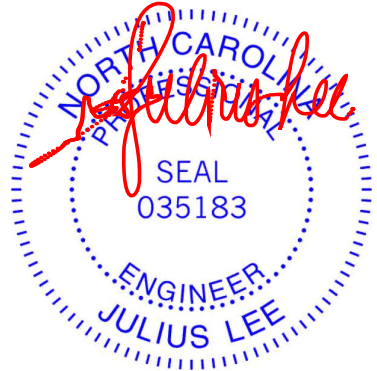
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 6-22,9-15,26-28: 2x4 SP No.3, 17-19: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 21-23,6-20,8-20,14-17: 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-11-15 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied. Except:
 1 Row at midpt 6-21
 10-0-0 oc bracing: 15-17
 WEBS 1 Row at midpt 3-23, 5-23, 7-20, 9-18

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-180(LC 10)
 Max Uplift 2=-42(LC 12), 12=-31(LC 12)
 Max Grav 2=2353(LC 17), 12=2366(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3679/50, 3-5=-2990/108, 5-6=-2844/114, 6-7=-3047/109, 7-8=-3047/109,
 8-9=-3247/93, 9-11=-3811/57, 11-12=-3662/30
 BOT CHORD 2-25=0/3181, 23-25=0/3181, 6-21=-495/56, 20-21=0/2926, 18-20=0/2778, 17-18=0/3226,
 9-17=0/779, 12-14=0/3025
 WEBS 3-25=0/390, 3-23=-704/90, 5-23=-864/0, 21-23=0/3005, 5-21=0/1839, 6-20=-4/476,
 7-20=-467/91, 8-20=-16/600, 14-17=0/3016, 11-17=0/389, 11-14=-602/44, 8-18=0/972,
 9-18=-894/36

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 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
 - 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, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. 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.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

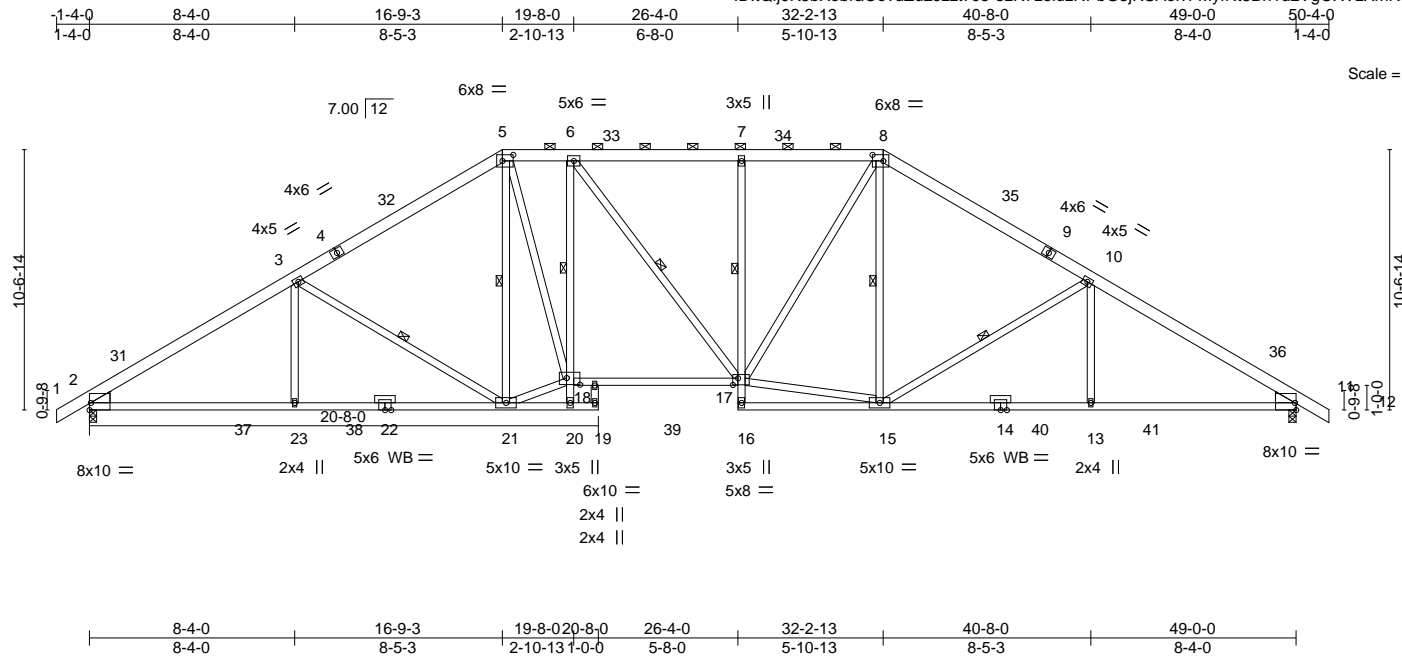
Job 22020381-01	Truss T1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232859
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:22:05 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-5zR7zoiuzRPbG3jRSaolvFMyfNt8Bn1d2VgOXVzXmNm

Job Reference (optional)



Scale = 1:93.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(LL) -0.31 17-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Vert(CT) -0.56 17-18 >999 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.24 11 n/a n/a	Weight: 376 lb	FT = 20%

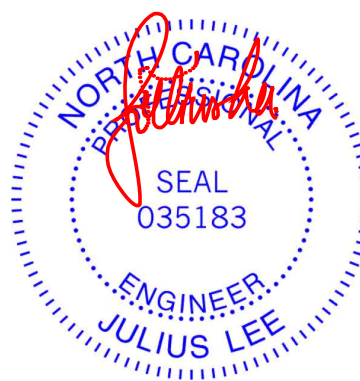
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
6-20,7-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
18-21,6-17,15-17,8-17: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-11-13 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-18, 7-17
10-0-0 oc bracing: 18-20
WEBS 1 Row at midpt 3-21, 5-21, 6-17, 8-15, 10-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 2=-39(LC 12), 11=-42(LC 12)
Max Grav 2=2353(LC 17), 11=2335(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3684/46, 3-5=-2983/105, 5-6=-2935/106, 6-7=-2982/112, 7-8=-2971/113,
8-10=-2954/109, 10-11=-3653/51
BOT CHORD 2-23=0/3185, 21-23=0/3185, 6-18=-481/75, 17-18=0/3016, 7-17=-408/77, 13-15=0/3024,
11-13=0/3024
WEBS 3-23=0/397, 3-21=-720/90, 5-21=-445/0, 18-21=0/2850, 5-18=0/1559, 6-17=-33/271,
15-17=0/2465, 8-17=0/1068, 8-15=-28/255, 10-15=-726/91, 10-13=0/396

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 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
 - 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 11. 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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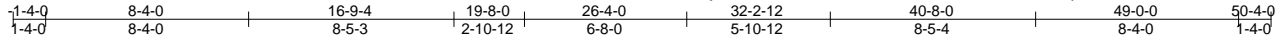
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1S	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232860
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:41 2022 Page 1

ID:tlj0K5bXobraOovdZu2Jztt7J5-oL_3xbPrd30?Nntp28M6xBMrmihYaw44Xmr7huzXmO8



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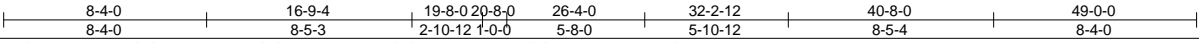
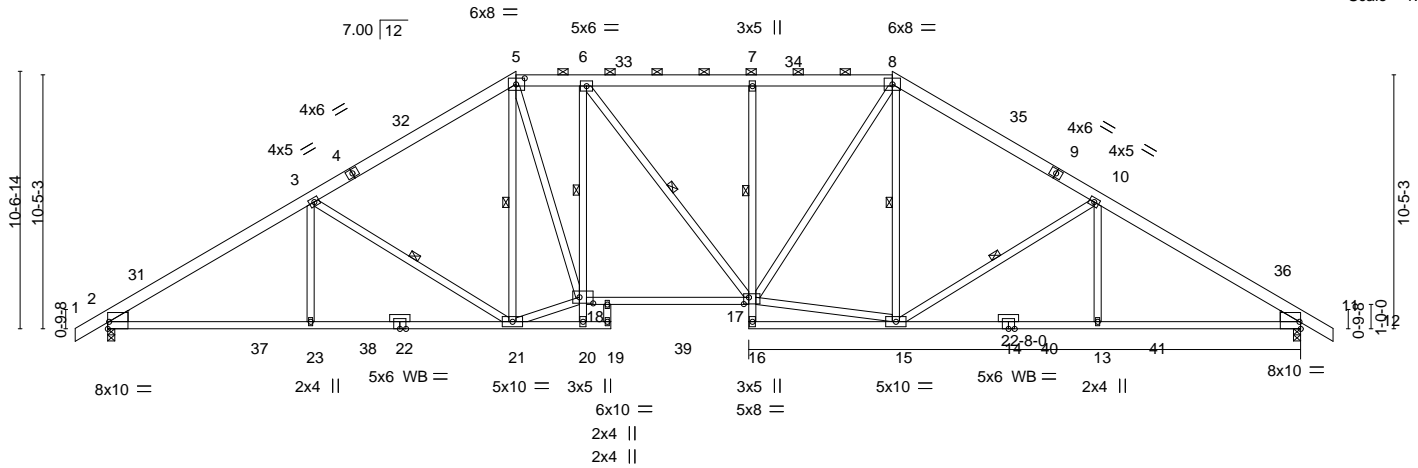


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-4-4,0-3-0], [11:Edge,0-3-8], [17:0-2-8,0-3-4], [18:0-6-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(LL) -0.31 17-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Vert(CT) -0.56 17-18 >999 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.23 11 n/a n/a	Weight: 375 lb	FT = 20%

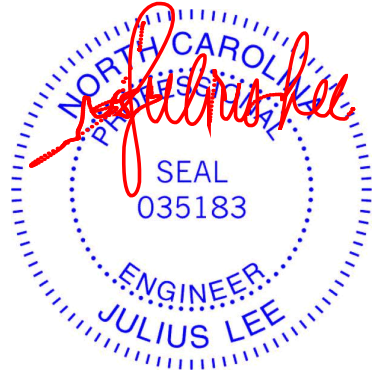
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
6-20,7-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
18-21,6-17,15-17,8-17: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-11-7 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-18, 7-17
10-0-0 oc bracing: 18-20
WEBS 1 Row at midpt 3-21, 5-21, 6-17, 8-15, 10-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-178(LC 10)
Max Uplift 2=-39(LC 12), 11=-42(LC 12)
Max Grav 2=2352(LC 17), 11=2334(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3677/46, 3-5=-3009/104, 5-6=-2978/105, 6-7=-3026/111, 7-8=-3016/112,
8-10=-2981/109, 10-11=-3645/51
BOT CHORD 2-23=0/3177, 21-23=0/3177, 6-18=-514/72, 17-18=0/3058, 7-17=-424/78, 13-15=0/3017,
11-13=0/3017
WEBS 3-23=0/390, 3-21=-675/89, 5-21=-405/0, 18-21=0/2851, 5-18=0/1535, 6-17=-33/274,
15-17=0/2473, 8-17=0/1085, 8-15=-31/251, 10-15=-678/90, 10-13=0/387

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-4, Exterior(2R) 16-9-4 to 21-0-3, Interior(1) 21-0-3 to 32-2-12, Exterior(2R) 32-2-12 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 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
 - 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 11. 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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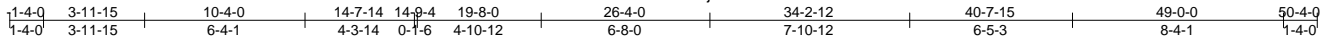
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1SA	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232861
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:42 2022 Page 1

ID:tQj0K5bXobraOovdZu2Jzzt7J5-GYYR8xQTONWs?XS0crtLTOv3l64KJL4EmQbhDKzXmO7



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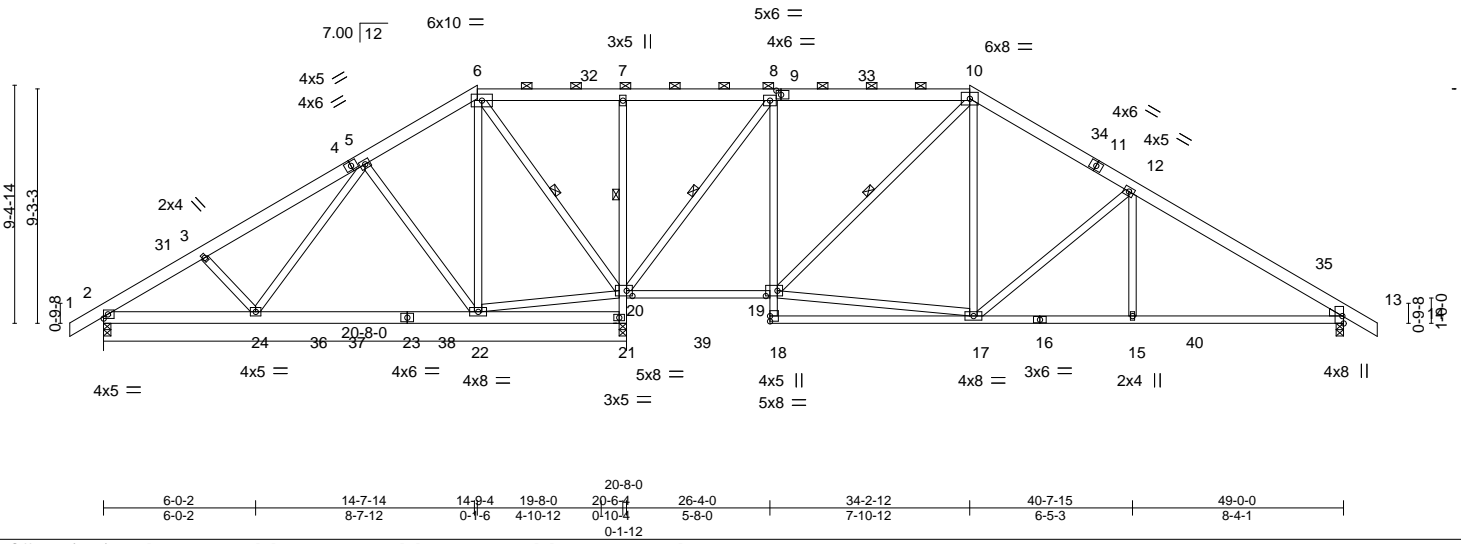


Plate Offsets (X,Y)-- [9:0-2-4,0-2-0], [13:Edge,0-0-10], [19:0-5-8,0-2-8], [20:0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.11	17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.23	17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.03	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 383 lb	FT = 20%

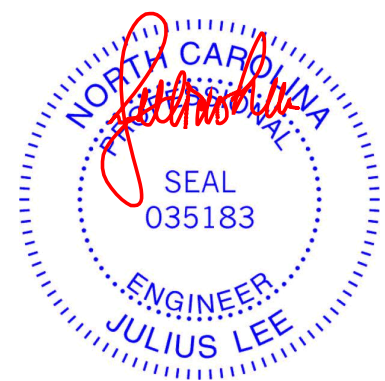
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-23,21-23: 2x6 SP No.2, 7-21,8-18: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
10-19: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-20
WEBS 1 Row at midpt 10-19, 6-20, 8-20

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 21=0-3-8
Max Horz 2=159(LC 11)
Max Uplift 13=68(LC 12)
Max Grav 2=904(LC 17), 13=1193(LC 18), 21=2847(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1289/0, 3-5=-1161/0, 5-6=-287/10, 6-7=0/707, 7-8=0/706, 8-10=-278/176,
10-12=-979/151, 12-13=-1528/99
BOT CHORD 2-24=0/1158, 22-24=0/582, 20-21=-2824/0, 7-20=-363/70, 19-20=-0/278, 8-19=0/849,
15-17=0/1223, 13-15=0/1223
WEBS 5-24=0/793, 5-22=-657/0, 17-19=0/637, 10-19=-707/0, 10-17=0/597, 12-17=-653/74,
12-15=0/311, 6-22=0/1021, 20-22=0/360, 6-20=-1444/0, 8-20=-1516/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-9-4, Exterior(2R) 14-9-4 to 19-0-3, Interior(1) 19-0-3 to 34-2-12, Exterior(2R) 34-2-12 to 38-5-11, Interior(1) 38-5-11 to 50-4-0 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, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - 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.
 - Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. 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 sheathing 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 ANSITPI1 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 22020381-01	Truss H1SA	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232861
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:43 2022 Page 2
ID:tQij0K5bXobraOovdZu2Jzzt7J5-kk6pMHR58gejdH1CAYPb0cREVWPZ2oKN?4KEmzXmO6

NOTES-

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

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

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

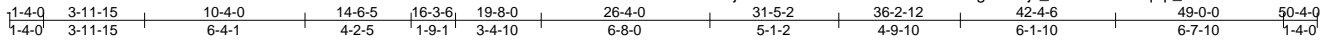


818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1SB	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232862
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:44 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-CwgBzdSjv_maErcOkGwqZp_QuvifnGIXDk4nDzXmO5



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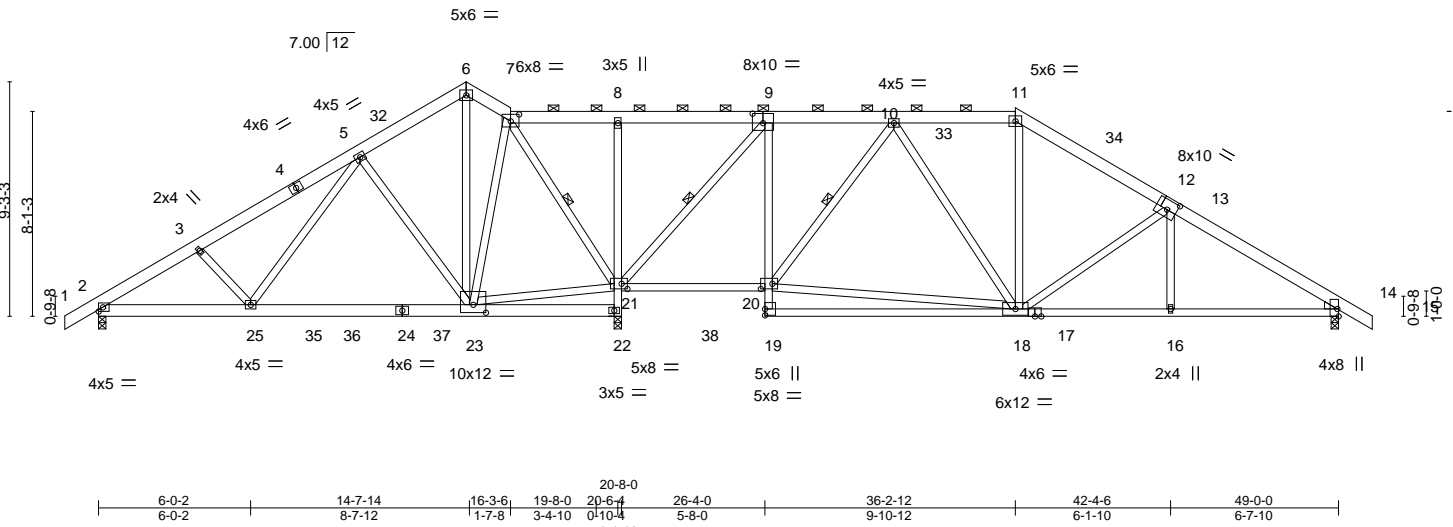


Plate Offsets (X,Y)-- [7:0-4-0,0-3-4], [9:0-5-0,0-4-8], [12:0-4-8,0-4-8], [14:Edge,0-0-10], [20:0-5-8,0-2-8], [21:0-2-12,0-2-8], [23:0-6-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	WB 0.85	Vert(LL) -0.22 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	Matrix-AS	Vert(CT) -0.45 18-19 >752 180		
BCDL 10.0	Rep Stress Incr YES		Horz(CT) 0.04 14 n/a n/a		
	Code IRC2018/TPI2014			Weight: 394 lb	FT = 20%

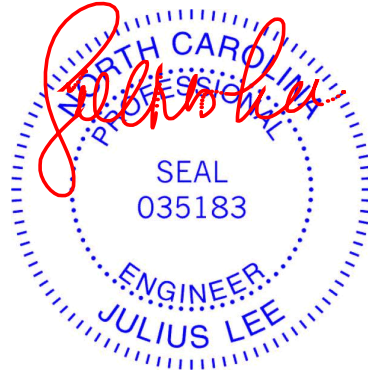
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-24,22-24: 2x6 SP No.2, 8-22,9-19: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-20, 7-21, 9-21

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 22=0-3-8
Max Horz 2=157(LC 11)
Max Uplift 14=60(LC 12)
Max Grav 2=920(LC 17), 14=1170(LC 18), 22=2795(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1328/0, 3-5=-1197/0, 5-6=-342/0, 6-7=-283/0, 7-8=0/766, 8-9=0/763,
9-10=-319/150, 10-11=-917/139, 11-13=-1124/127, 13-14=-1562/92
BOT CHORD 2-25=0/1176, 23-25=0/613, 21-22=-2776/0, 8-21=-348/67, 20-21=0/325, 9-20=0/892,
16-18=0/1262, 14-16=0/1262
WEBS 18-20=-7/541, 10-20=-684/21, 10-18=0/377, 13-18=-483/80, 5-25=0/780, 5-23=-674/0,
7-21=-1409/0, 7-23=0/966, 9-21=-1559/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2E) 14-6-5 to 16-3-6, Interior(1) 16-3-6 to 36-2-12, Exterior(2R) 36-2-12 to 39-2-12, Interior(1) 39-2-12 to 50-4-0 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, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - 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.
 - Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. 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



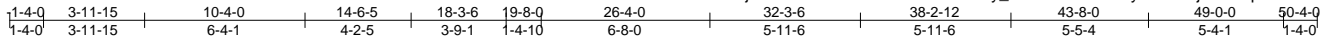
818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1SC	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232863
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:46 2022 Page 1

ID:1Qij0K5bXobraOovdZu2Jzzt7J5-9Jny_JTzRb0IU9mnrhyleE3m5jSnF7fqh2ZuN6zXmO3



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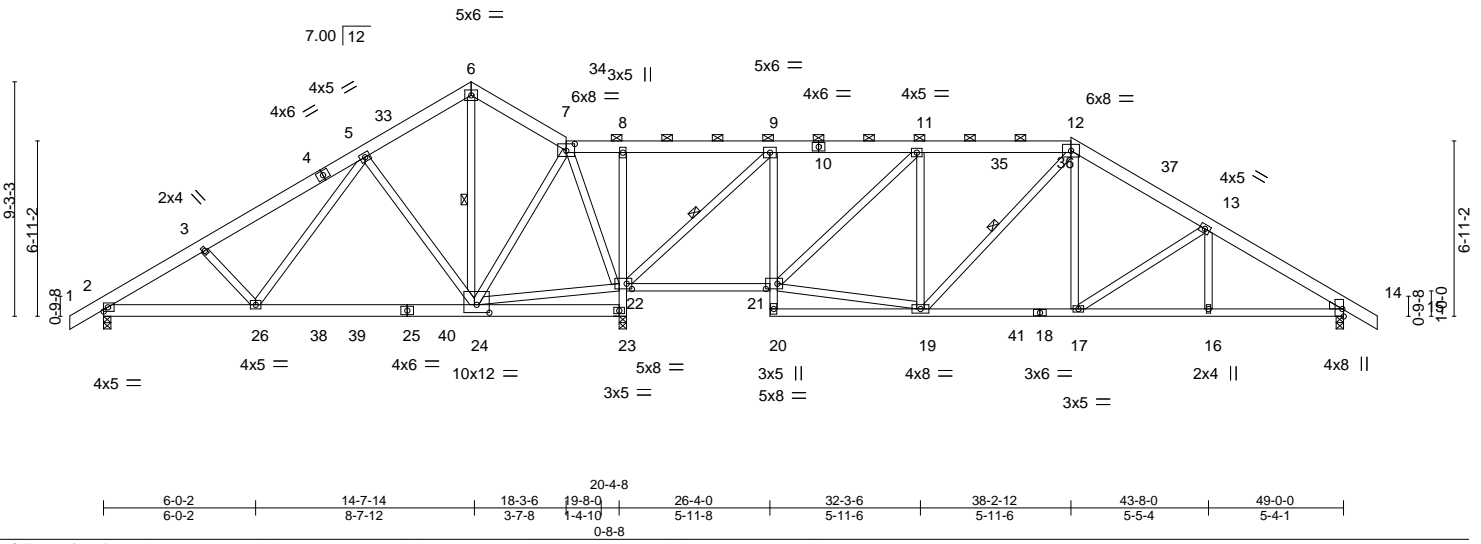


Plate Offsets (X,Y)-- [7:0-4-0,0-3-4], [14:Edge,0-0-10], [21:0-5-8,0-2-8], [22:0-2-8,0-2-8], [24:0-6-0,0-3-12]

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)	-0.07 17-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.21 24-26	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.04 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 384 lb	FT = 20%

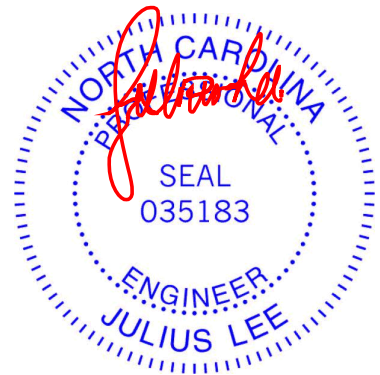
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-25,23-25: 2x6 SP No.2, 8-23,9-20: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 7-12.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 12-19, 6-24, 9-22

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 23=0-3-8
 Max Horz 2=-157(LC 10)
 Max Uplift 14=-60(LC 12)
 Max Grav 2=927(LC 17), 14=1186(LC 18), 23=2757(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1341/0, 3-5=-1210/0, 5-6=-359/0, 6-7=-298/0, 7-8=0/879, 8-9=0/879,
 9-11=400/147, 11-12=-939/141, 12-13=-1269/121, 13-14=-1633/82
 BOT CHORD 2-26=0/1188, 24-26=0/624, 22-23=-2742/0, 8-22=-324/49, 21-22=0/405, 9-21=0/860,
 17-19=0/1024, 16-17=-3/1324, 14-16=-3/1324
 WEBS 5-26=0/779, 19-21=0/879, 11-21=-763/0, 11-19=0/260, 12-17=0/434, 13-17=-351/58,
 5-24=-663/0, 7-24=0/1211, 7-22=-1339/0, 9-22=-1677/2

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 38-2-12, Exterior(2R) 38-2-12 to 41-2-12, Interior(1) 41-2-12 to 50-4-0 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, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - 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.
 - Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. 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

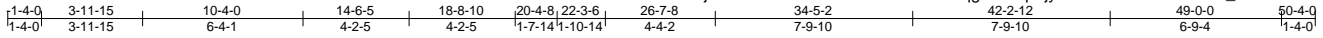


Job 22020381-01	Truss H1SE	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232865
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Carter Components (Lexington), Lexington, NC - 27295,

8,530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:50 2022 Page 1

ID:IQj0K5bXobraOovdZu2Jzzt7J5-141SggWUVqWjym3Y4W1Eo4ERiKoCB_kPcfX6WtzXmO?



Scale = 1:91.0

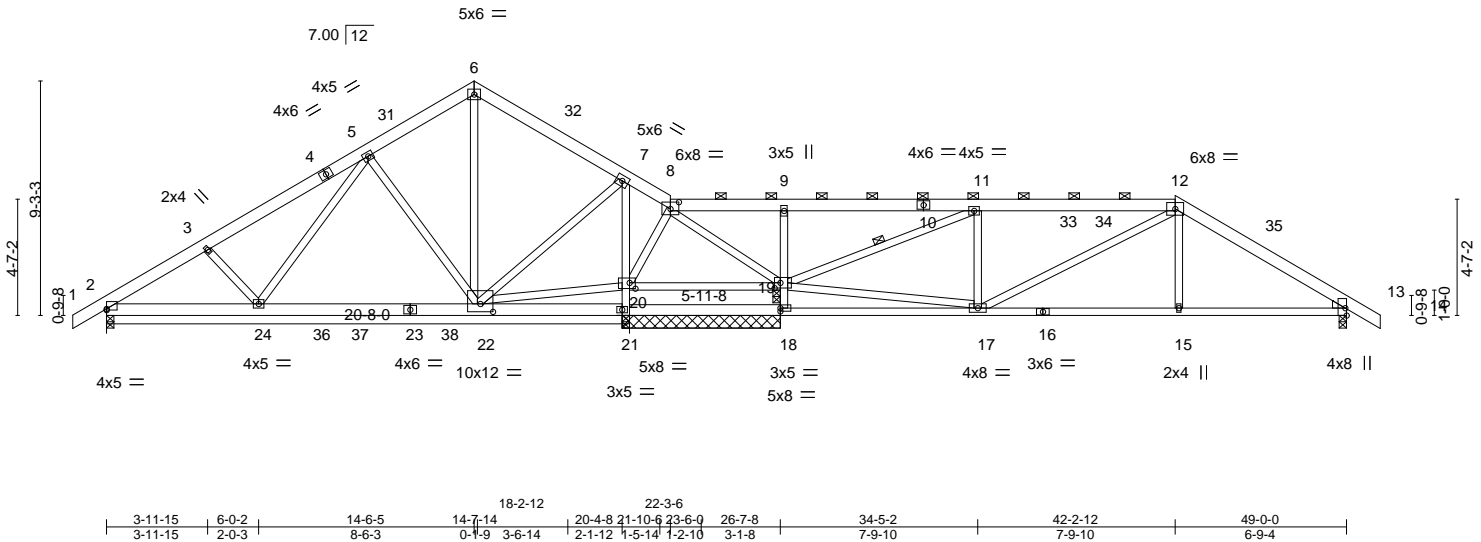


Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [8:0-4-0,0-3-4], [13:Edge,0-0-10], [19:0-2-12,0-2-8], [20:0-2-12,0-2-12], [22:0-6-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.08 15-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Vert(CT) -0.23 22-24 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2018/TPI2014			Weight: 355 lb	FT = 20%

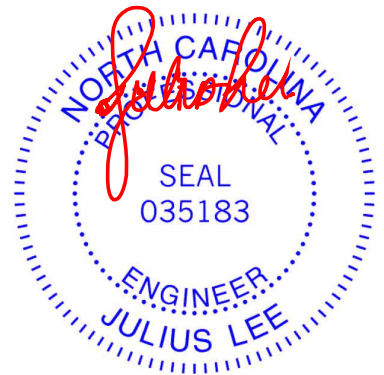
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-23,21-23: 2x6 SP No.2, 7-21,9-18: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 8-12.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 11-19

REACTIONS. All bearings 6-3-0 except (jt=length) 2=0-3-8, 13=0-3-8, 19=0-3-8.
(lb) - Max Horz 2=157(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13, 21, 21, 19
Max Grav All reactions 250 lb or less at joint(s) 18, 21 except 2=1136(LC 17),
20=1286(LC 17), 13=997(LC 18), 19=1258(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1694/0, 3-5=-1559/0, 5-6=-688/0, 6-7=-718/0, 8-9=0/356, 9-11=0/364,
11-12=-1052/76, 12-13=-1282/54
BOT CHORD 2-24=0/1500, 22-24=0/961, 7-20=-1274/0, 9-19=-407/86, 15-17=0/1019, 13-15=0/1027
WEBS 17-19=0/937, 11-19=-1488/19, 12-15=0/277, 5-24=0/759, 5-22=-645/0, 7-22=0/968,
6-22=0/440

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 42-2-12, Exterior(2R) 42-2-12 to 45-2-12, Interior(1) 45-2-12 to 50-4-0 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, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - N/A
 - 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.
 - Bearing at joint(s) 20, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 21. This connection is for uplift only and does not consider lateral forces.
 - Two SBP4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. 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.



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



818 Soundside Road
Edenton, NC 27932

Job 22020381-01	Truss H1SE	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 17-2316 Elev 'B' Permit-Roof Truss T27232865
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 24 09:21:50 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-141SggWUVqWjym3Y4W1Eo4ERiKoCB_kPcfX6WtzXmO?

NOTES-

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

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

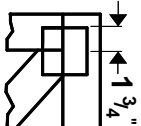
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



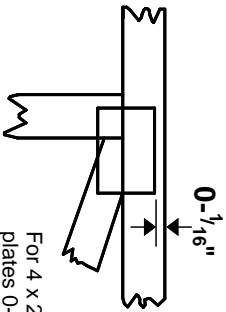
818 Soundside Road
Edenton, NC 27932

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



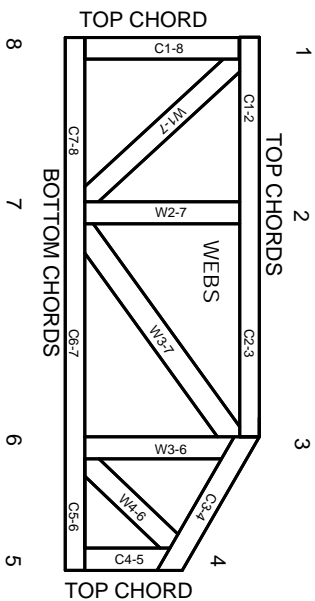
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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
BCSI: 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: MII-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. Rewriting 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.