

Trenco  
818 Soundside Rd  
Edenton, NC 27932

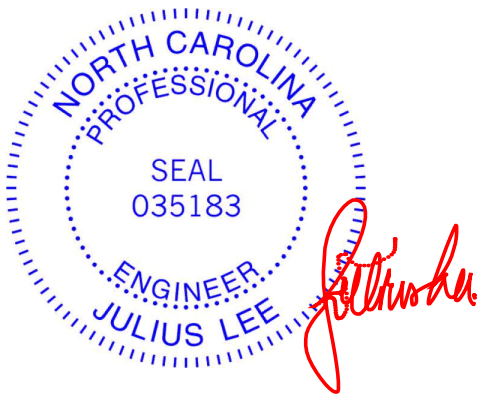
Re: 22020369-01  
Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss

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

Pages or sheets covered by this seal: T27211738 thru T27211772

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

North Carolina COA: C-0844



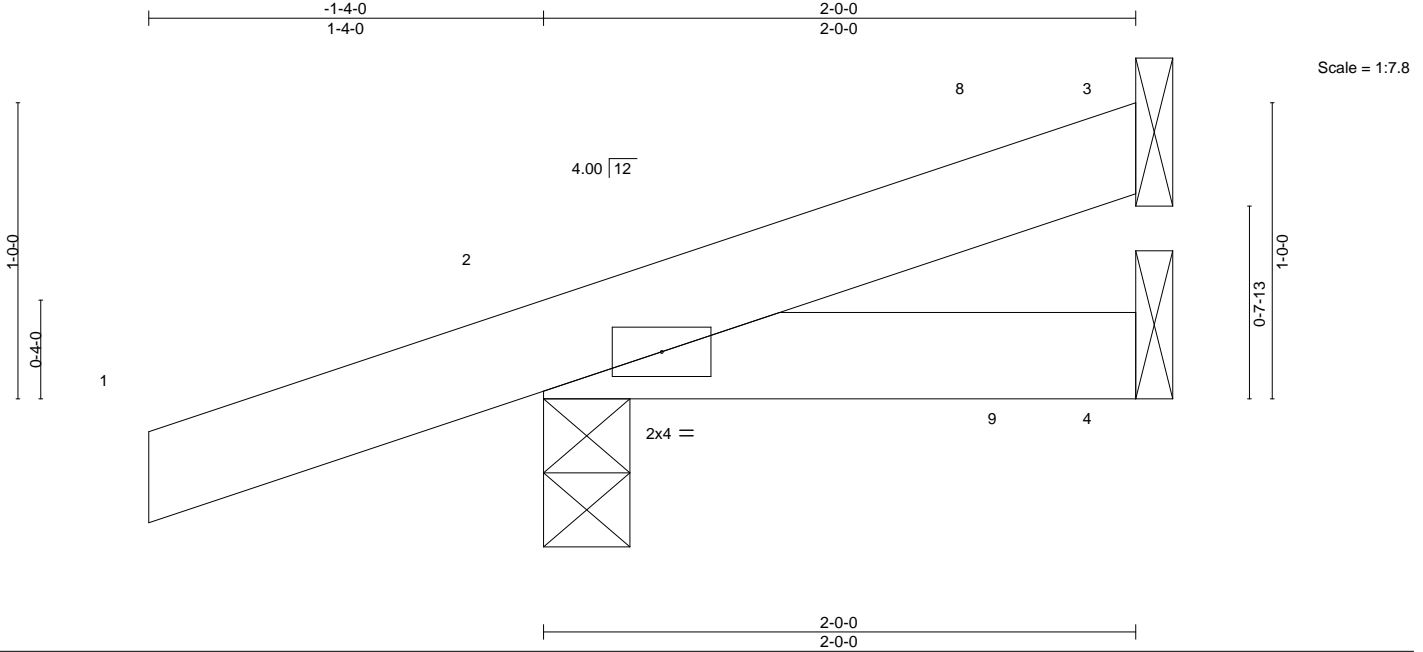
March 23, 2022

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 22020369-01	Truss J6	Truss Type JACK-OPEN	Qty 2	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211738
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:31 2022. Page 1  
ID:cAXIwBcFhviGNsOCDTPEKSyNyV8-EzvQujAuUkCQwohkNzkEV5WwP75qbg?q6Rq4FHzYLcU



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 8 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

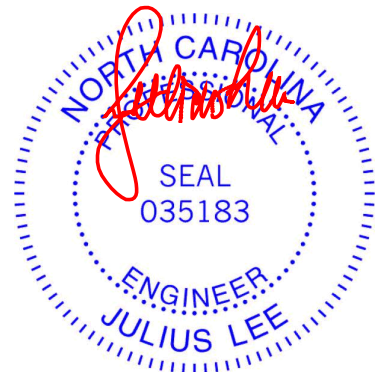
#### REACTIONS.

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

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 1-11-14 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 23, 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 22020369-01	Truss J5A	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211739
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:30 2022 Page 1  
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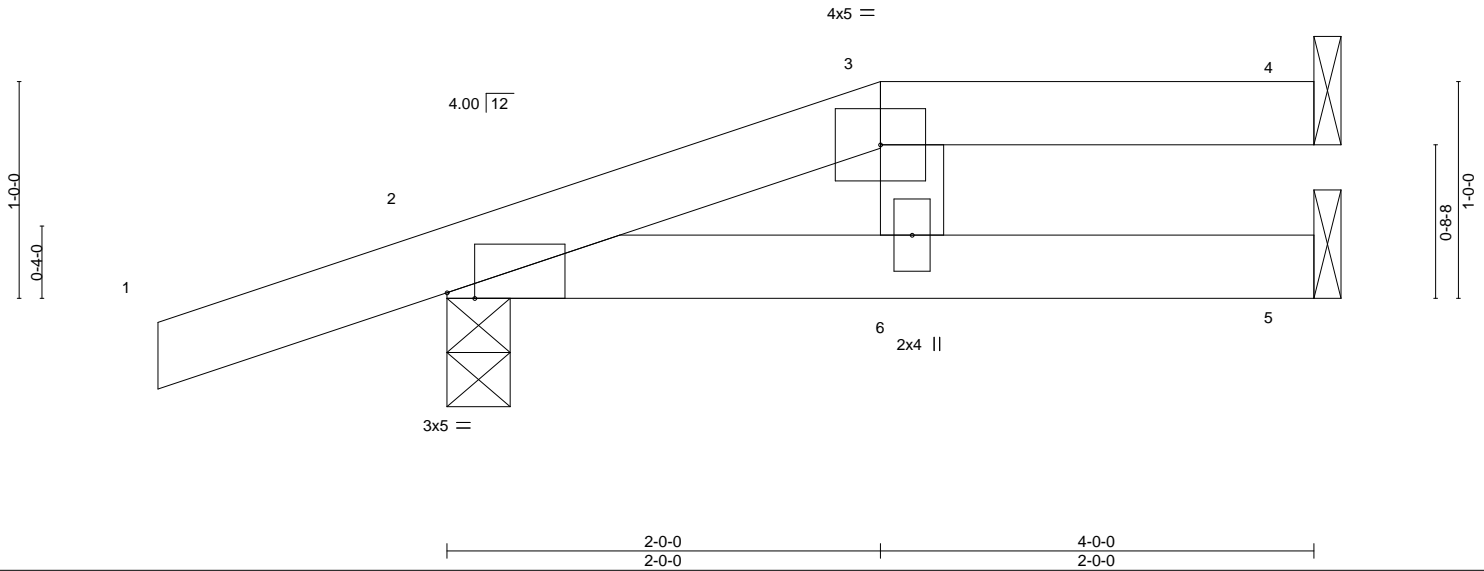


Plate Offsets (X,Y)-- [2:0-1-9,Edge]		2-0-0		4-0-0		2-0-0			
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) 0.05	6	>967	240	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.08	6	>597	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.07	Horz(CT) 0.03	4	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 15 lb	FT = 20%	

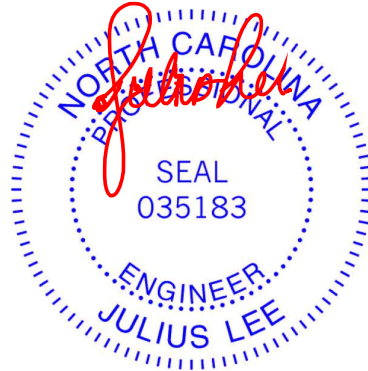
<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
 Max Horz 2=33(LC 8)  
 Max Uplift 4=-20(LC 4), 2=-98(LC 4), 5=-56(LC 5)  
 Max Grav 4=58(LC 1), 2=348(LC 1), 5=190(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-6=-333/100

- 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; Pr. Open; MWFRS (directional); cantilever left and right exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
  - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 47 lb up at 2-0-0 on top chord, and 51 lb down and 17 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 5-7=-20  
 Concentrated Loads (lb)  
 Vert: 3=-150(F) 6=-51(F)



March 23, 2022

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

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

Job 22020369-01	Truss J5	Truss Type JACK-OPEN	Qty 5	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211740
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:24 2022 Page 1  
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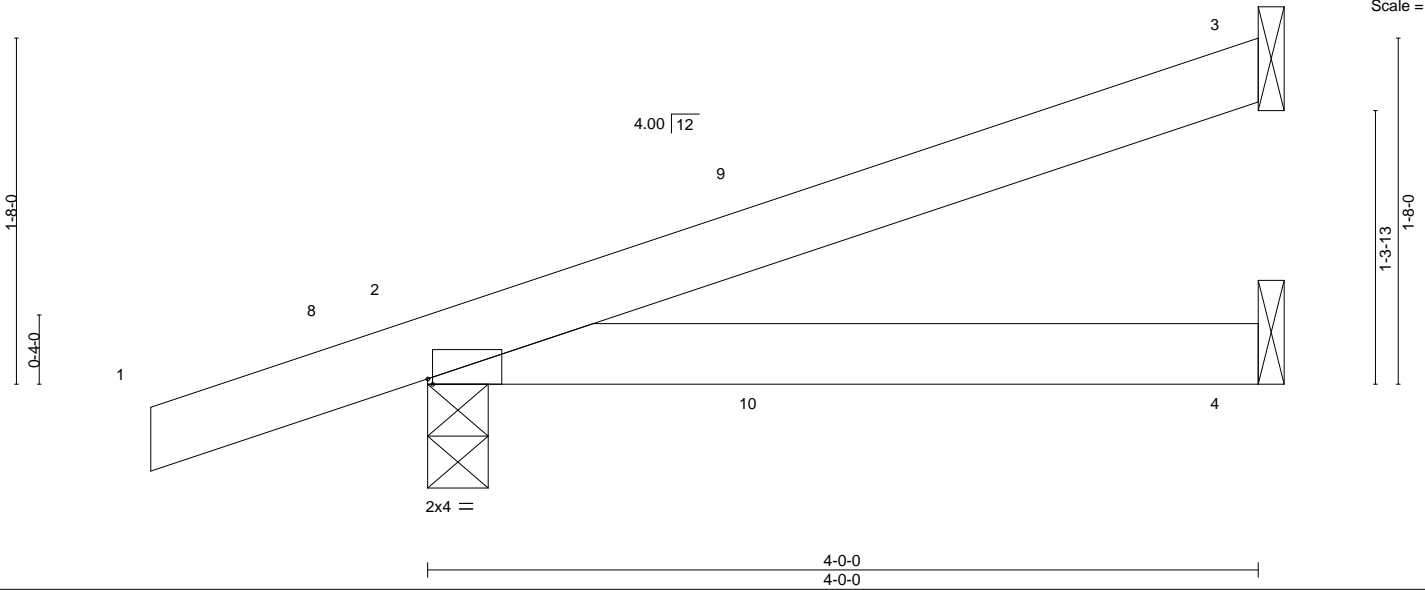


Plate Offsets (X,Y)-- [2:0-0-5,Edge]

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 0.18	Vert(LL)	0.03 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	0.03 4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 14 lb	FT = 20%

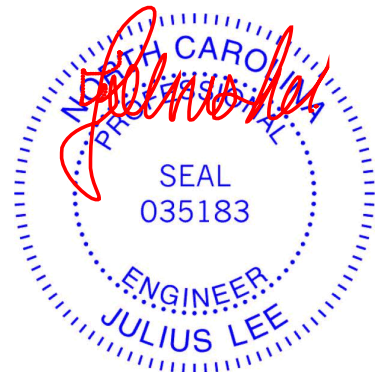
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

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

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

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
  - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 2022

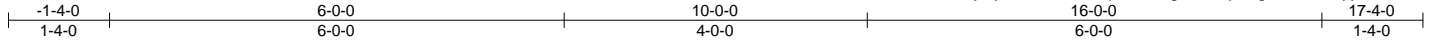
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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



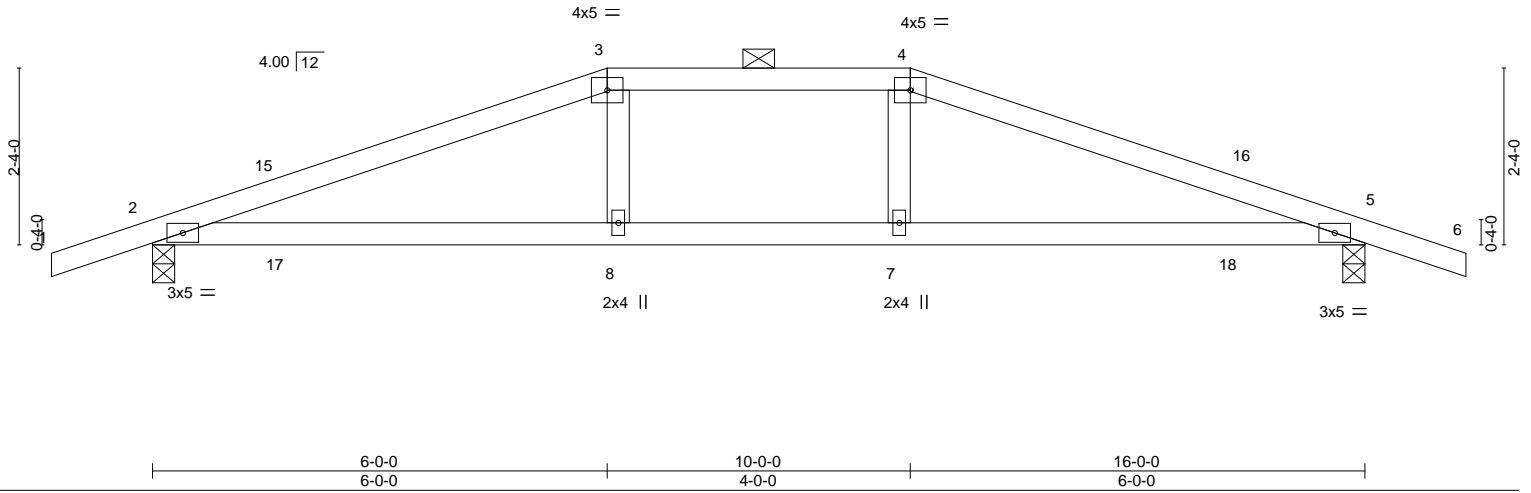
818 Soundside Road  
Edenton, NC 27932

Job 22020369-01	Truss H5	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211741
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:15 2022 Page 1  
ID:cAXlwBcFhvIGNsOCDTPEKSyNyV8-iuxNXF\_rFpBh?KSgRcSTsjr55gWCrQtURyyEhDzYLck



Scale = 1:30.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) 0.17 8-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) -0.19 8-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 58 lb	FT = 20%

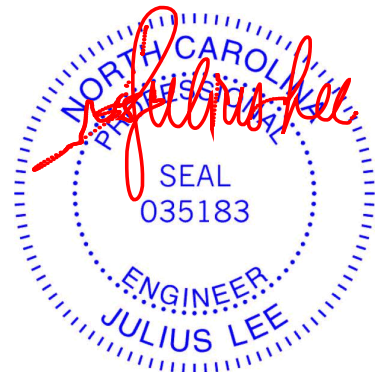
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

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

**REACTIONS.** (size) 2=0-3-8, 5=0-3-8  
Max Horz 2=-22(LC 10)  
Max Uplift 2=-174(LC 12), 5=-174(LC 12)  
Max Grav 2=720(LC 1), 5=720(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1319/1210, 3-4=-1226/1199, 4-5=-1319/1221  
BOT CHORD 2-8=-1093/1218, 7-8=-1108/1226, 5-7=-1091/1218

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-0-0, Exterior(2E) 6-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23, 2022

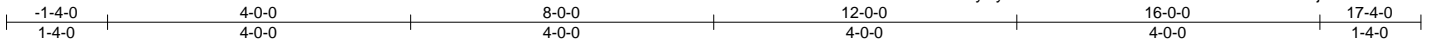
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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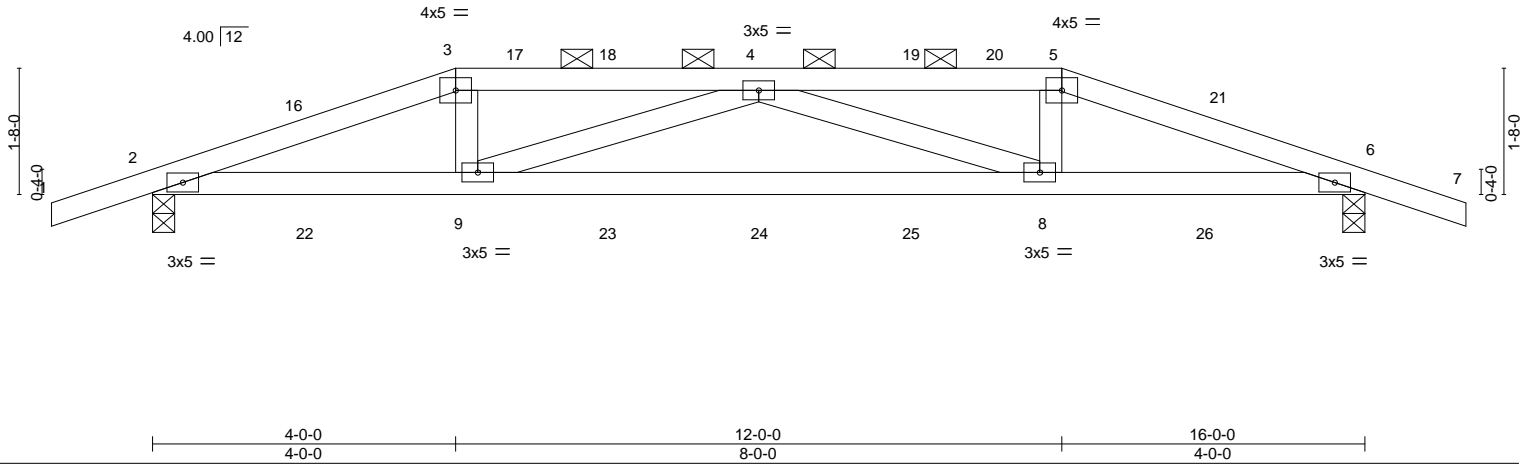
818 Soundside Road  
Edenton, NC 27932

Job 22020369-01	Truss H5GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211742
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:18 2022 Page 1  
ID:cAXlwBcFhvlGNsOCDTPEKSYnyV8-7TcV9H0kYkaGsoBF6I?ATMTcZtUV2ljw7wBulXzYLch



Scale = 1:30.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	0.18 8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.32 8-9	>606	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.05 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 67 lb	FT = 20%

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

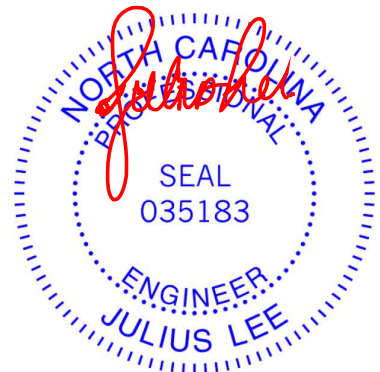
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except 2-0-0 oc purlins (3-6-14 max.); 3-5.  
BOT CHORD Rigid ceiling directly applied or 7-7-9 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
Max Horz 2=16(LC 7)  
Max Uplift 2=-274(LC 4), 6=-274(LC 5)  
Max Grav 2=1049(LC 1), 6=1051(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2315/586, 3-4=-2225/576, 4-5=-2229/577, 5-6=-2319/587  
BOT CHORD 2-9=-535/2177, 8-9=-675/2697, 6-8=-530/2181  
WEBS 3-9=-120/481, 5-8=-120/481, 4-9=-534/141, 4-8=-529/140

- 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=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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) 39 lb down and 32 lb up at 2-0-12, 55 lb down and 44 lb up at 4-0-0, 38 lb down and 44 lb up at 6-0-12, 38 lb down and 44 lb up at 8-0-12, 38 lb down and 44 lb up at 10-0-12, and 55 lb down and 44 lb up at 12-0-0, and 39 lb down and 32 lb up at 13-11-4 on top chord, and 170 lb down and 59 lb up at 2-0-12, 29 lb down and 21 lb up at 4-0-12, 29 lb down and 21 lb up at 6-0-12, 29 lb down and 21 lb up at 8-0-12, 29 lb down and 21 lb up at 10-0-12, and 29 lb down and 21 lb up at 11-11-4, and 170 lb down and 59 lb up at 13-11-4 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  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 10-13=-20



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Continued on page 2

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



818 Soundside Road  
Edenton, NC 27932

Job 22020369-01	Truss H5GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211742
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:18 2022 Page 2  
ID:cAXlwBcFhvlGNsOCDTPEKSyNyV8-7TcV9H0kYkaGsoBF6I?ATMTcZtUV2ljw7wBulXzYLch

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)

Vert: 3=-36(F) 5=-36(F) 9=-28(F) 8=-28(F) 4=-36(F) 18=-36(F) 19=-36(F) 22=-170(F) 23=-28(F) 24=-28(F) 25=-28(F) 26=-170(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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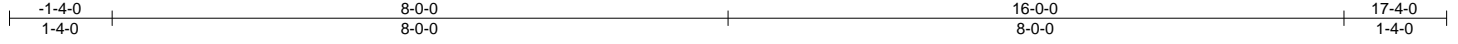


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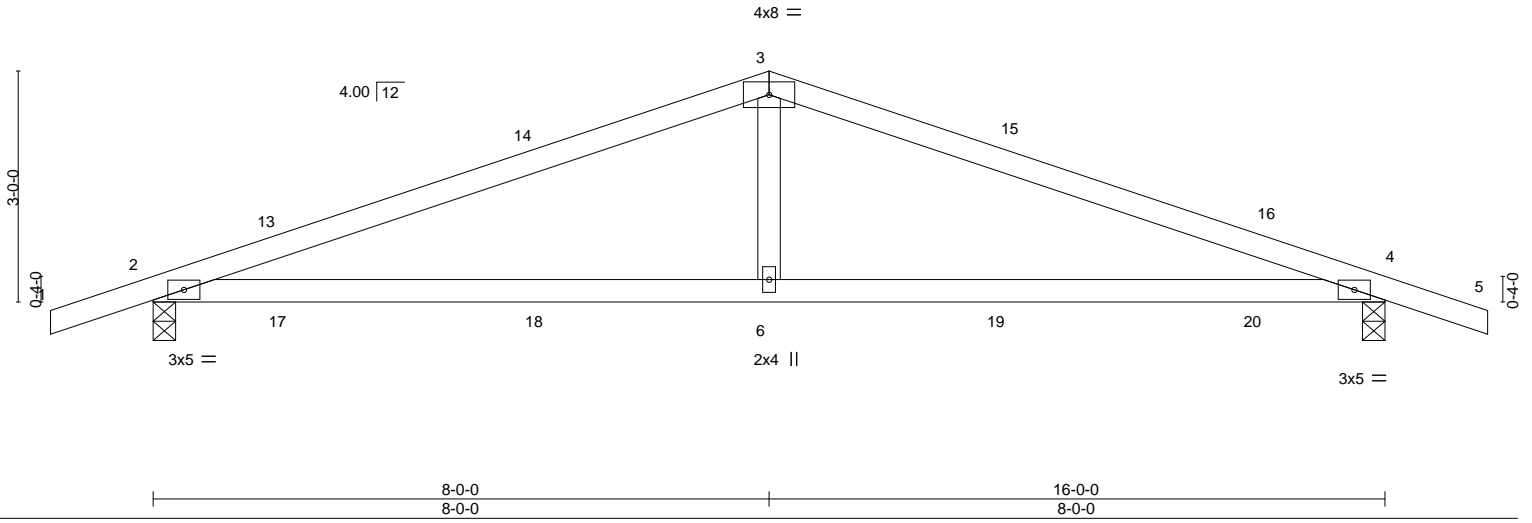


Job 22020369-01	Truss T5	Truss Type COMMON	Qty 3	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211743
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:53 2022 Page 1  
ID:cAXIwBcFhviGNsOCDTPEKSYnyV8-bCEkVFRhJU\_IZAMzgb7OOkQWS\_ShibK4AsAF10zYlc8



Scale = 1:29.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) 0.21 6-12 >927 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.24 6-9 >816 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 57 lb	FT = 20%

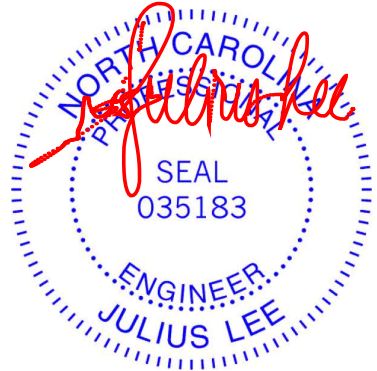
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

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

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

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1202/980, 3-4=-1202/980  
BOT CHORD 2-6=-855/1098, 4-6=-855/1098  
WEBS 3-6=-379/359

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 2022

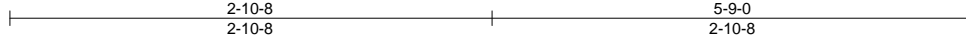
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 22020369-01	Truss V2C	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211744
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:01:03 2022 Page 1  
ID:cAXlwBcFhVIGNsOCDTPEKSyNyV8-I7qWcfZYETii7uFhJkorrOg0yU58wYTQbnORzYLc\_



3x6 =

Scale = 1:13.7

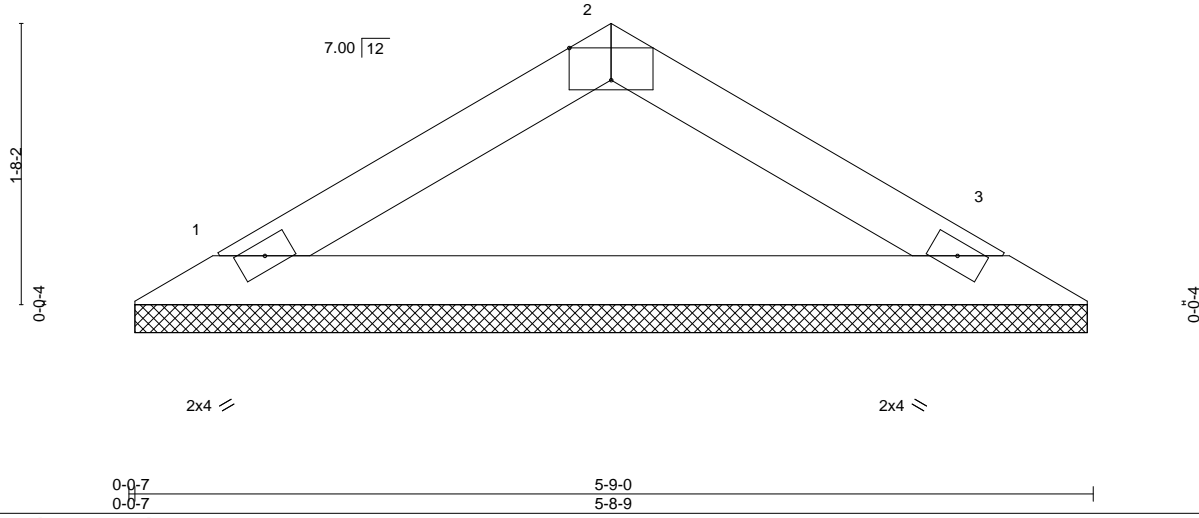


Plate Offsets (X,Y)--	[2:0-3-0,Edge]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

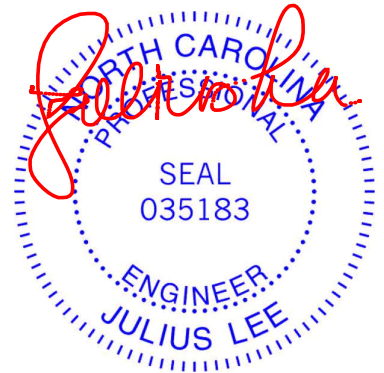
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-8-2, 3=5-8-2  
Max Horz 1=-23(LC 10)  
Max Uplift 1=-1(LC 12), 3=-1(LC 12)  
Max Grav 1=187(LC 1), 3=187(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 23, 2022

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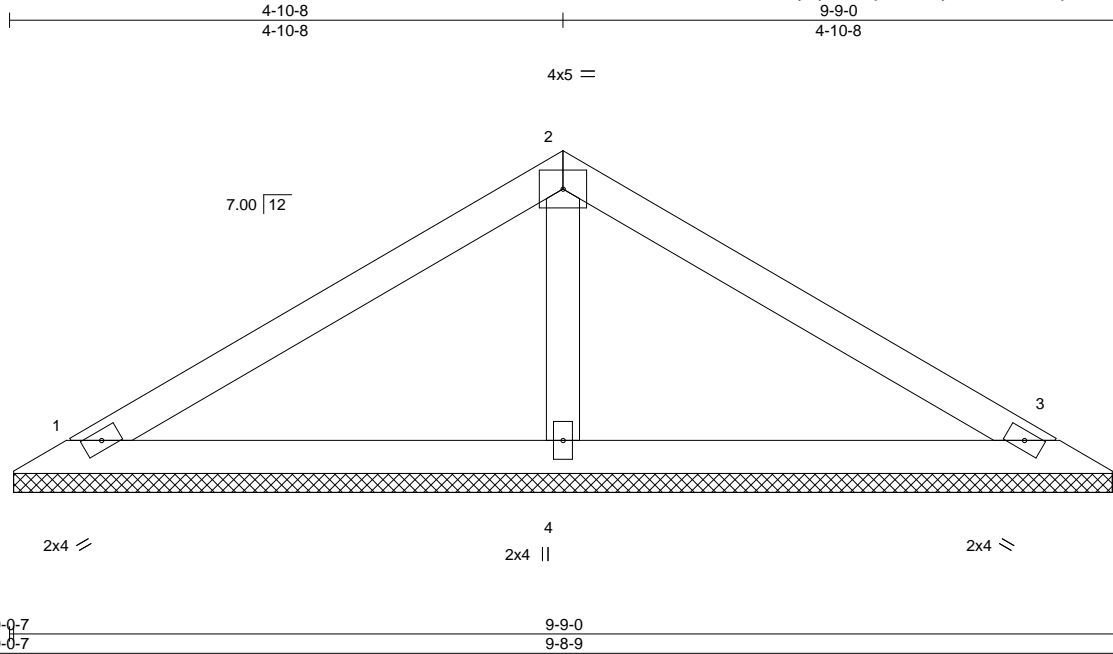


818 Soundside Road  
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Job 22020369-01	Truss V2B	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211745
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:01:01 2022 Page 1

ID:cAXlwBcFhVlGNsOCdTPEKSYNyV8-MkjmB\_XiQy\_9WPzV8HGGjQI?aDIPdEbF066gJYzYlC0



Scale = 1:20.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 33 lb	FT = 20%

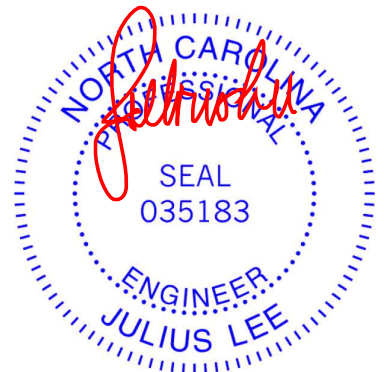
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

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

**REACTIONS.** (size) 1=9-8-2, 3=9-8-2, 4=9-8-2  
Max Horz 1=43(LC 11)  
Max Uplift 1=-11(LC 12), 3=-11(LC 12)  
Max Grav 1=164(LC 1), 3=164(LC 1), 4=365(LC 1)

**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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-10-8, Exterior(2R) 4-10-8 to 7-10-8, Interior(1) 7-10-8 to 9-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 23, 2022

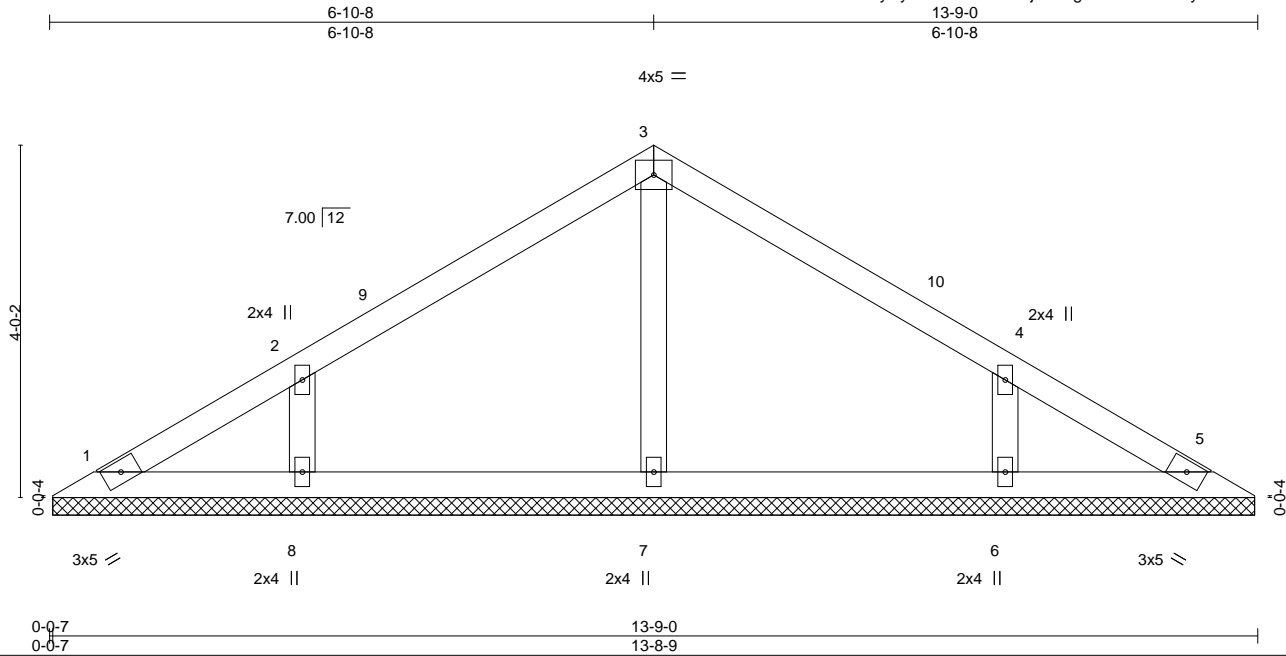
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 22020369-01	Truss V2A	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211746
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:57 2022 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	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 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 51 lb	FT = 20%

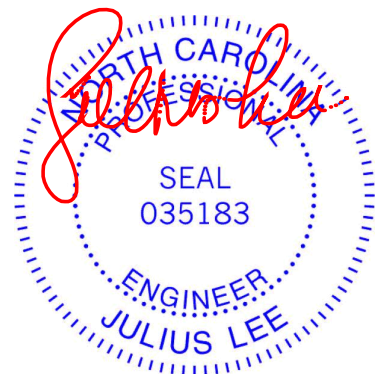
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**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 13-8-2.  
 (lb) - Max Horz 1=-63(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=275(LC 1), 8=307(LC 23), 6=307(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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-10-8, Exterior(2R) 6-10-8 to 9-10-8, Interior(1) 9-10-8 to 13-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
  - 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 23, 2022

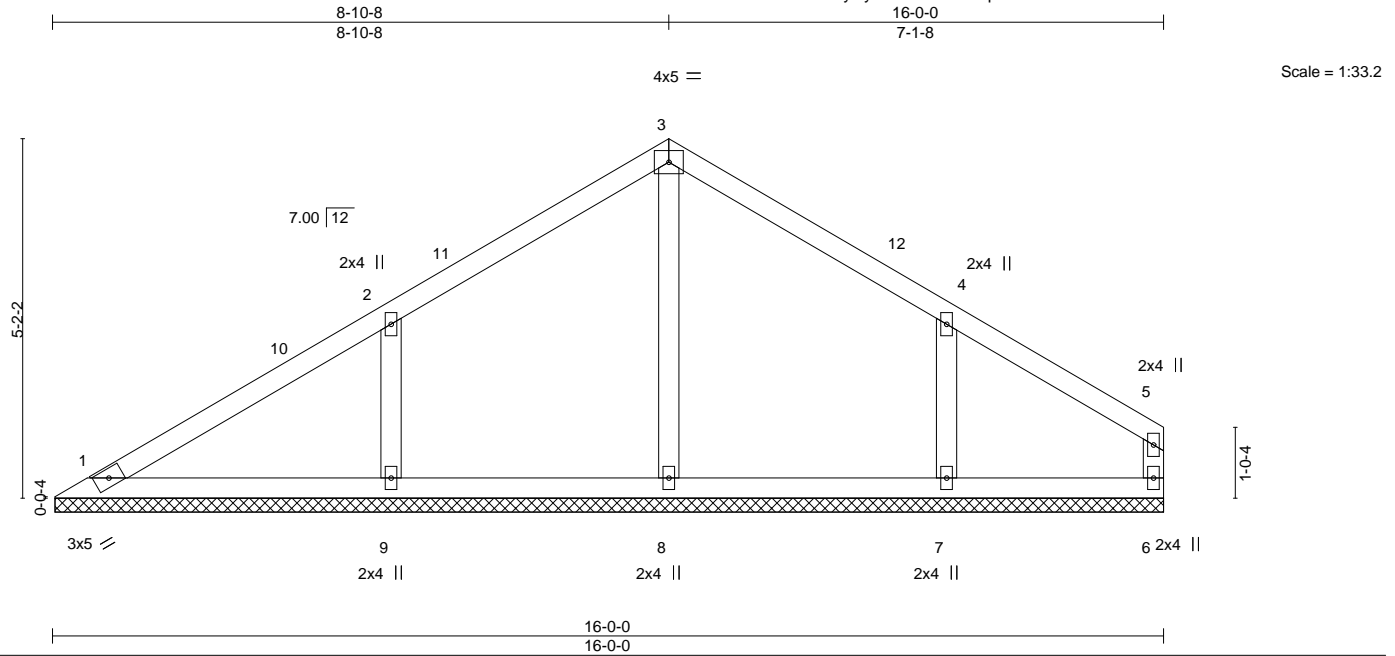
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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Job 22020369-01	Truss V2	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211747
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:55 2022 Page 1  
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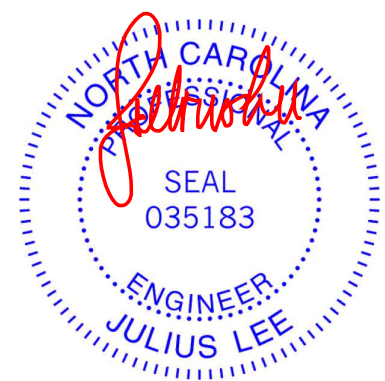
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 65 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 15-11-9.  
 (lb) - Max Horz 1=93(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 9, 7  
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=257(LC 1), 9=399(LC 23), 7=325(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-9=297/117

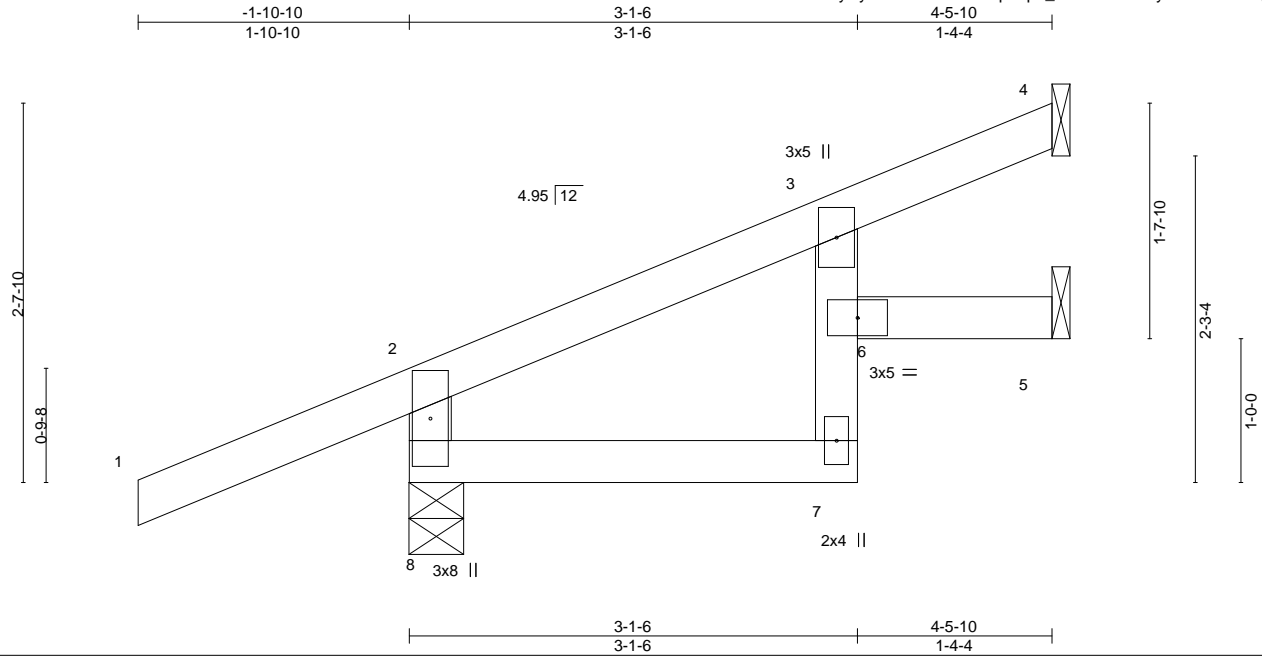
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-10-8, Exterior(2R) 8-10-8 to 11-10-8, Interior(1) 11-10-8 to 15-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
  - 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6, 9, and 7. 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.



March 23, 2022

Job 22020369-01	Truss CJ1R	Truss Type JACK-OPEN GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211748
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:36 2022 Page 1  
 ID:cAXlwBcFhvIGNsOCdTPEKSyNyV8-LO4dLwWORqHDpL\_AfwFKnVktGyD3CoOkTO0gqzzYLdL



Scale: 3/4"=1'

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.01 7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 7 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 20 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 8=0-4-9, 4=Mechanical, 5=Mechanical  
 Max Horz 8=63(LC 8)  
 Max Uplift 8=-29(LC 17), 5=-23(LC 8)  
 Max Grav 8=162(LC 3), 4=98(LC 1), 5=172(LC 13)

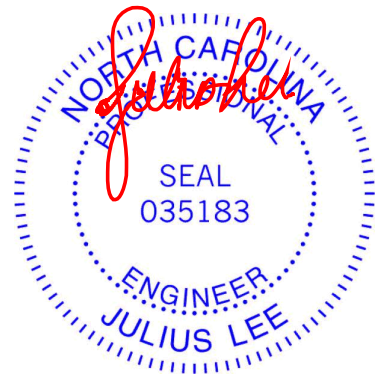
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; 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 100 lb uplift at joint(s) 5.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 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: 2-4=-20(F=40)  
 Concentrated Loads (lb)  
 Vert: 1=7(F=3, B=3)  
 Trapezoidal Loads (plf)  
 Vert: 1=40(F=70, B=30)-to-2=0(F=50, B=10), 8=-48(F=-14, B=-14)-to-7=-97(F=-38, B=-38), 6=-97(F=-38, B=-38)-to-5=-121(F=-51, B=-51)



March 23, 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



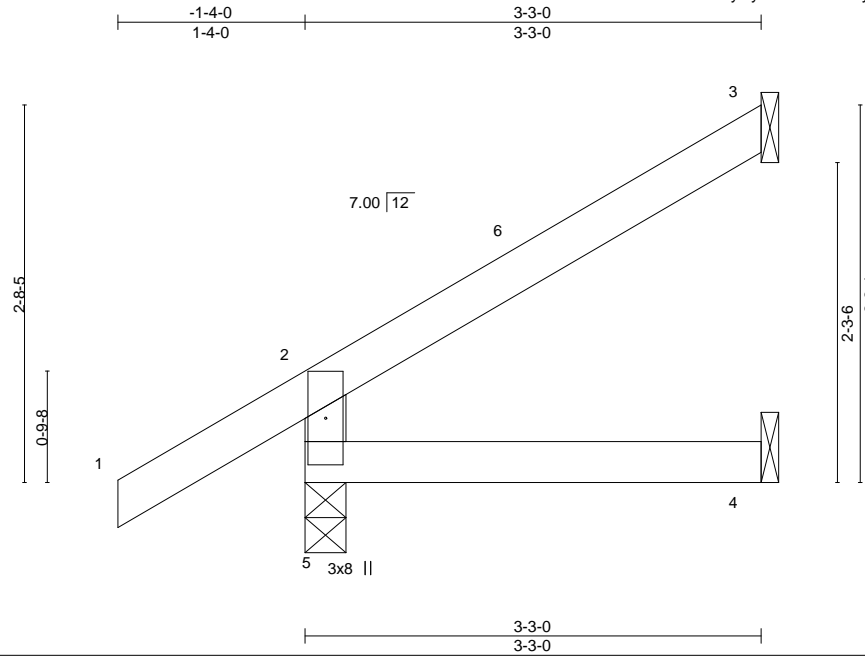
818 Soundside Road  
 Edenton, NC 27932





Job 22020369-01	Truss J1	Truss Type JACK-OPEN	Qty 21	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211750
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:21 2022 Page 1  
ID:cAXIwBcFhviGNsOCDTPEKSyNyV8-X2lenl2rcryrjFwpotYu5\_5BO5gbF9XMpuPYvszYLce



Scale = 1:16.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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 0.09	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 13 lb	FT = 20%

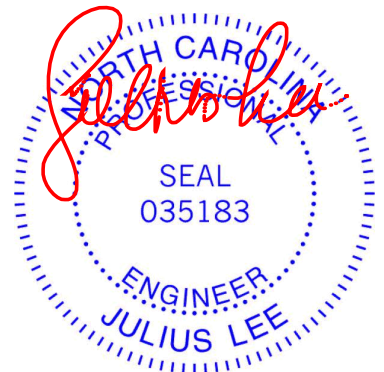
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-3-0 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=87(LC 12)  
Max Uplift 5=-24(LC 12), 3=-26(LC 12)  
Max Grav 5=232(LC 1), 3=73(LC 17), 4=55(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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-2-4 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
  - 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 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 23, 2022

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

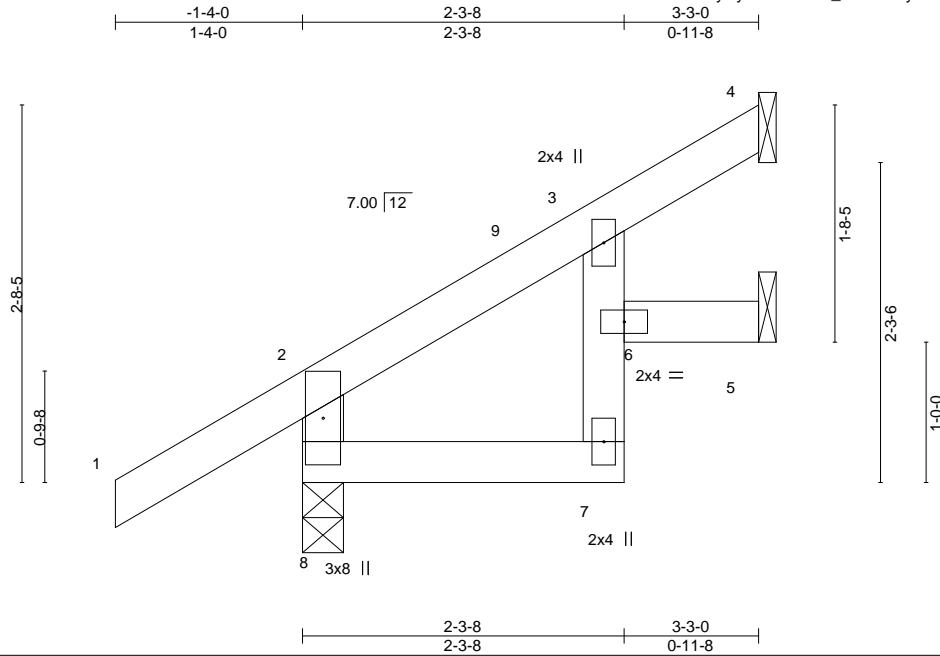


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Job 22020369-01	Truss J1R	Truss Type JACK-OPEN	Qty 6	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211751
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:23 2022 Page 1  
 ID:cAXlwBcFhVIGNsOCdTPEKSyNyV8-TRQOC\_4sNGCZyZ3CvIbMAPBxtuLkj20fGBufzizYLcc



Scale = 1:16.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR					Weight: 16 lb	FT = 20%

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

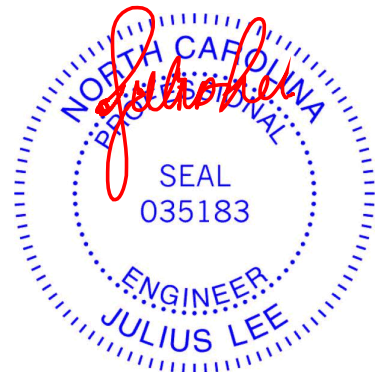
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 8=0-3-8, 4=Mechanical, 5=Mechanical  
 Max Horz 8=87(LC 12)  
 Max Uplift 8=-24(LC 12), 4=-13(LC 12), 5=-2(LC 12)  
 Max Grav 8=232(LC 1), 4=60(LC 1), 5=47(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-2-4 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
- 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) 4, 5.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 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 23, 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

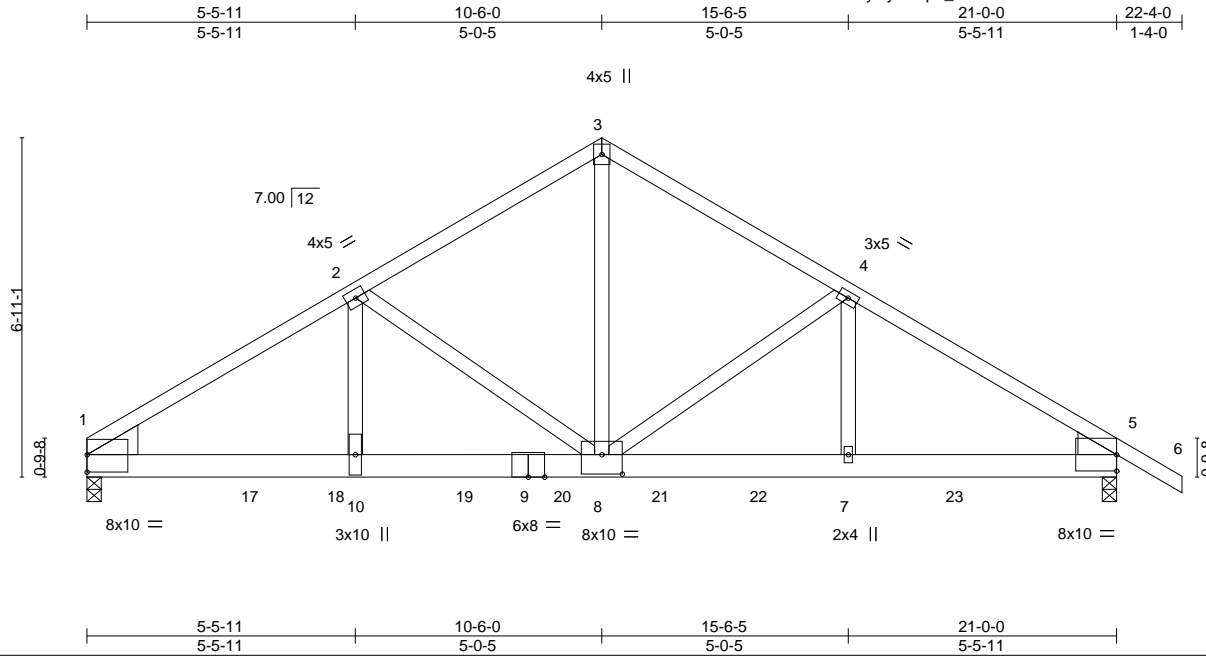


818 Soundside Road  
 Edenton, NC 27932

Job 22020369-01	Truss T2GR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211752
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:51 2022 Page 1  
ID:cAXIwBcFhVIGNsOCDTPEKSyNyV8-fp6\_4ZQRntkaJsCaYA5wJLA?BobHYJniYg8y7zYlCa



Scale = 1:47.0

Plate Offsets (X,Y)-- [1:Edge,0-4-4], [8:0-5-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.72	Vert(LL) -0.12	8-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.24	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.75	Horz(CT) 0.06	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 387 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
3-8: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

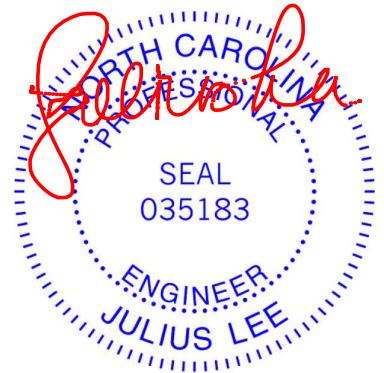
**WEDGE**  
Left: 2x8 SP 2400F 2.0E , Right: 2x6 SP No.2

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8  
Max Horz 1=-114(LC 6)  
Max Grav 1=10005(LC 2), 5=6831(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-13661/0, 2-3=-8957/0, 3-4=-8952/0, 4-5=-10766/0  
BOT CHORD 1-10=0/11728, 8-10=0/11710, 7-8=0/9186, 5-7=0/9193  
WEBS 3-8=0/8658, 4-8=-2292/378, 4-7=-250/2275, 2-8=-4943/0, 2-10=0/5082

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.  
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - 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; Pr. Open; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1734 lb down at 1-3-12, 1734 lb down at 3-3-12, 1734 lb down at 5-0-12, 1734 lb down at 5-8-4, 1714 lb down at 7-8-4, 1703 lb down at 9-8-4, 1658 lb down at 11-8-4, 1198 lb down and 28 lb up at 13-8-4, and 1198 lb down and 28 lb up at 15-8-4, and 1361 lb down and 126 lb up at 17-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard



March 23, 2022

Continued on page 2

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



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Job 22020369-01	Truss T2GR	Truss Type COMMON GIRDER	Qty 1	Ply <b>3</b>	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211752
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:51 2022 Page 2  
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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 11-14=-20

Concentrated Loads (lb)

Vert: 7=-1198(B) 10=-1470(B) 13=-1470(B) 17=-1470(B) 18=-1470(B) 19=-1469(B) 20=-1468(B) 21=-1471(B) 22=-1198(B) 23=-1361(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

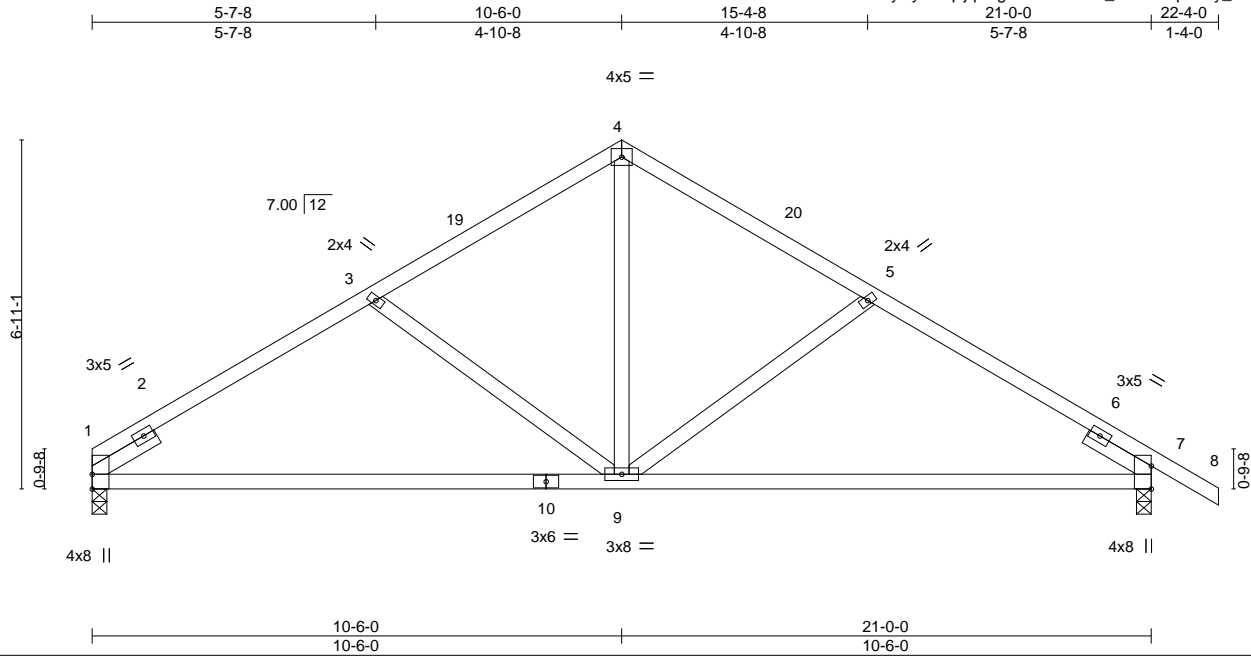


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Edenton, NC 27932

Job 22020369-01	Truss T2	Truss Type COMMON	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211753
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:45 2022 Page 1

ID:cAXlwBcFhvIGNsOCDTPEKSyNyV8-qfijqVLgB1zRbxlRCw\_W425HqmfXty\_uKdDqITzYLcG



Scale = 1:45.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL) -0.16	9-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT) -0.33	9-13	>766		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT) 0.03	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 102 lb	FT = 20%

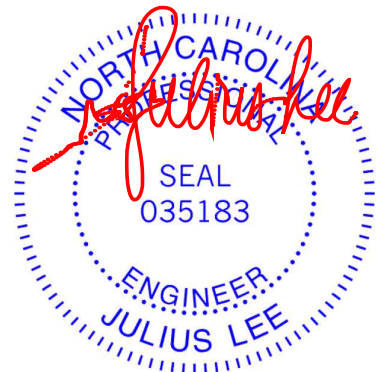
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

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

**REACTIONS.** (size) 1=0-3-8, 7=0-3-8  
Max Horz 1=-114(LC 10)  
Max Uplift 1=-5(LC 12), 7=-40(LC 12)  
Max Grav 1=837(LC 1), 7=923(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-1136/79, 3-4=-891/74, 4-5=-890/72, 5-7=-1131/75  
BOT CHORD 1-9=0/926, 7-9=0/918  
WEBS 4-9=0/570, 5-9=-291/96, 3-9=-301/97

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 22-4-0 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
  - 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) 1 and 7. This connection is for uplift only and does not consider lateral forces.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 2022

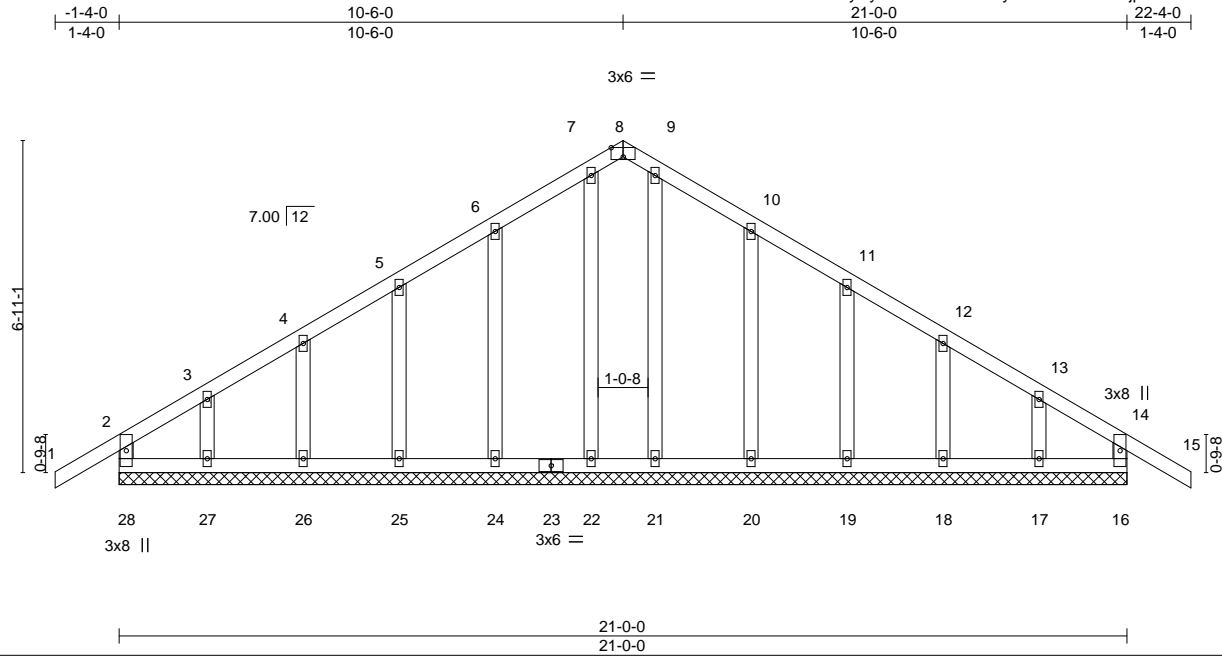
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 22020369-01	Truss T2G	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211754
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:48 2022 Page 1  
 ID:cAXlwBcFhVlGNsOCDTPEKSyNyV8-EEQrSXNYUyL?SPU0t2Xdhhpazuh4LwL0aSUMozYlCD



Scale: 1/4"=1'

Plate Offsets (X,Y)-- [8:0-3-0,Edge]		21-0-0		21-0-0					
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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: 128 lb	FT = 20%

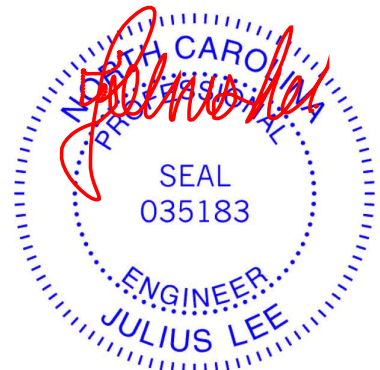
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**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 21-0-0.  
 (lb) - Max Horz 28=-133(LC 10)  
 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, 22, 24, 25, 26, 27, 21, 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; Pr. Open; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-10-0, Exterior(2N) 1-10-0 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 22-4-0 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
  - 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 23, 2022

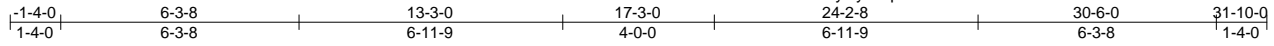
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 22020369-01	Truss H1	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211755
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:37 2022 Page 1  
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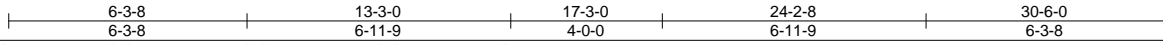
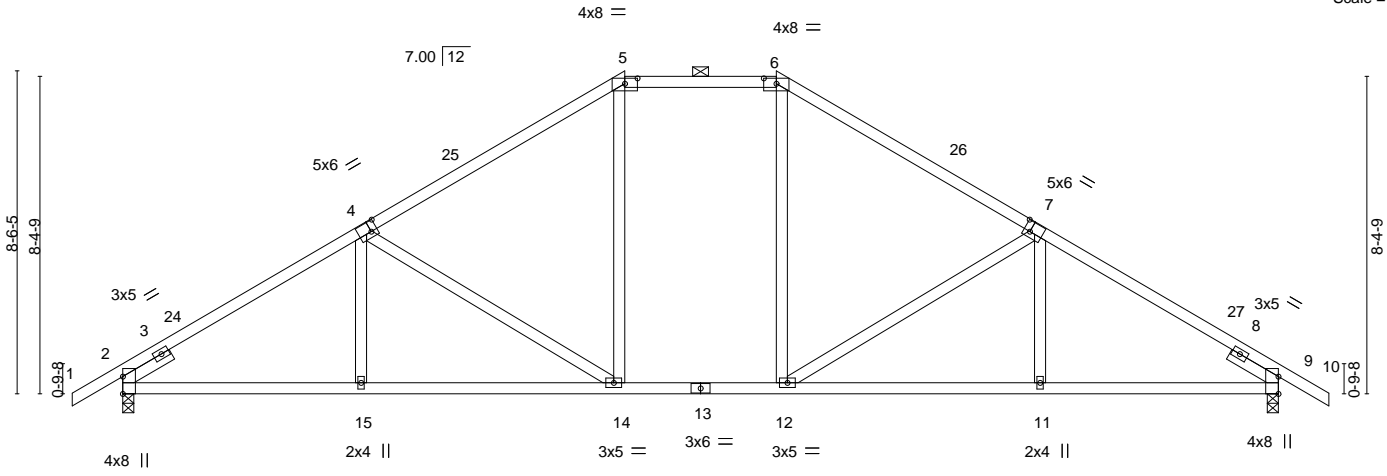


Plate Offsets (X,Y)-- [4:0-2-0,0-3-4], [5:0-4-0,0-1-11], [6:0-4-0,0-1-11], [7:0-2-0,0-3-4]

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 0.83	Vert(LL)	-0.29 14-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.43 14-15	>852	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.10 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 164 lb	FT = 20%

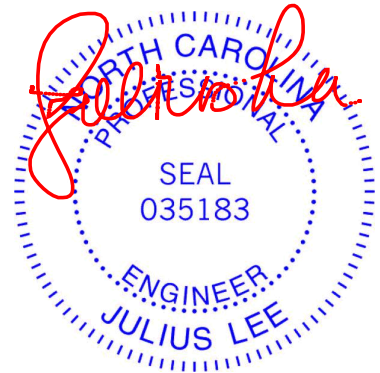
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-12 max.): 5-6.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8  
 Max Horz 2=-143(LC 10)  
 Max Uplift 2=-42(LC 12), 9=-42(LC 12)  
 Max Grav 2=1437(LC 17), 9=1437(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2021/42, 4-5=-1567/91, 5-6=-1278/106, 6-7=-1567/91, 7-9=-2021/42  
 BOT CHORD 2-15=0/1765, 14-15=0/1756, 12-14=0/1328, 11-12=0/1649, 9-11=0/1657  
 WEBS 4-14=-499/72, 5-14=0/464, 6-12=0/464, 7-12=-499/72

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 13-3-0, Exterior(2E) 13-3-0 to 17-3-0, Exterior(2R) 17-3-0 to 21-5-15, Interior(1) 21-5-15 to 31-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23, 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

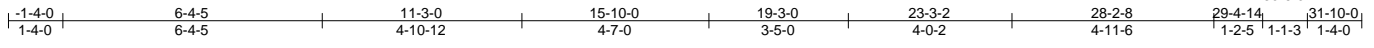


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Job 22020369-01	Truss H1AR	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211756
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:40 2022 Page 1  
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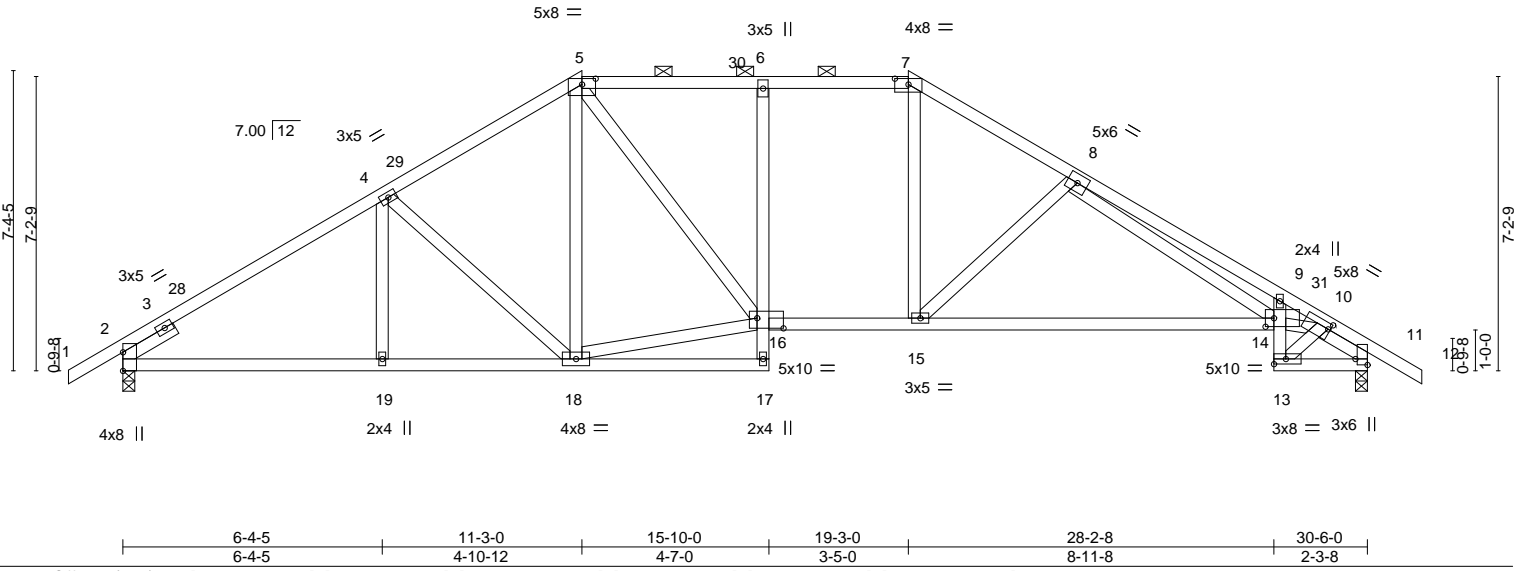


Plate Offsets (X,Y)--	[5:0-4-0,0-1-11], [7:0-4-0,0-1-11], [10:0-0-11,0-1-12], [11:Edge,0-3-9], [14:0-2-8,0-2-8], [16:0-7-12,0-3-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.24 14-15 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.48 14-15 >764 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.15 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 187 lb	FT = 20%

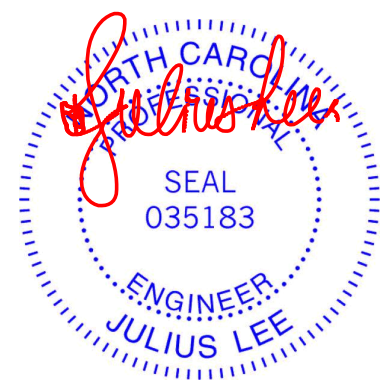
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-17: 2x4 SP No.3, 14-16: 2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
10-14: 2x4 SP No.2  
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-3-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (4-0-14 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-8, 11=0-3-8  
Max Horz 2=124(LC 11)  
Max Uplift 2=-42(LC 12), 11=-42(LC 12)  
Max Grav 2=1430(LC 17), 11=1439(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1975/43, 4-5=-1674/84, 5-6=-1703/75, 6-7=-1690/71, 7-8=-2010/61, 8-9=-4029/0,  
9-10=-3618/0, 10-11=-400/0  
BOT CHORD 2-19=0/1706, 18-19=0/1706, 17-18=-3/304, 15-16=0/1718, 14-15=0/2013, 13-14=0/1009,  
11-13=0/1185  
WEBS 4-18=-325/57, 16-18=0/1193, 5-16=0/574, 7-15=0/743, 8-15=-475/76, 8-14=0/1771,  
10-14=0/2785, 10-13=-1300/0

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-3-0, Exterior(2R) 11-3-0 to 15-8-4, Interior(1) 15-8-4 to 19-3-0, Exterior(2R) 19-3-0 to 23-4-9, Interior(1) 23-4-9 to 31-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 23, 2022

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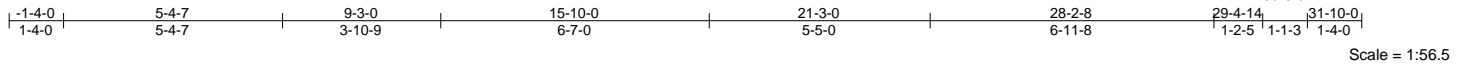
818 Soundside Road  
Edenton, NC 27932



Job 22020369-01	Truss H1BR	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211757
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:44 2022 Page 1  
ID:cAXlwBcFhviGNsOCDTPEKSyNyV8-6wZf0fcPZH5nZbi7cOC5B3juAs34HcwlDy56WzYLD



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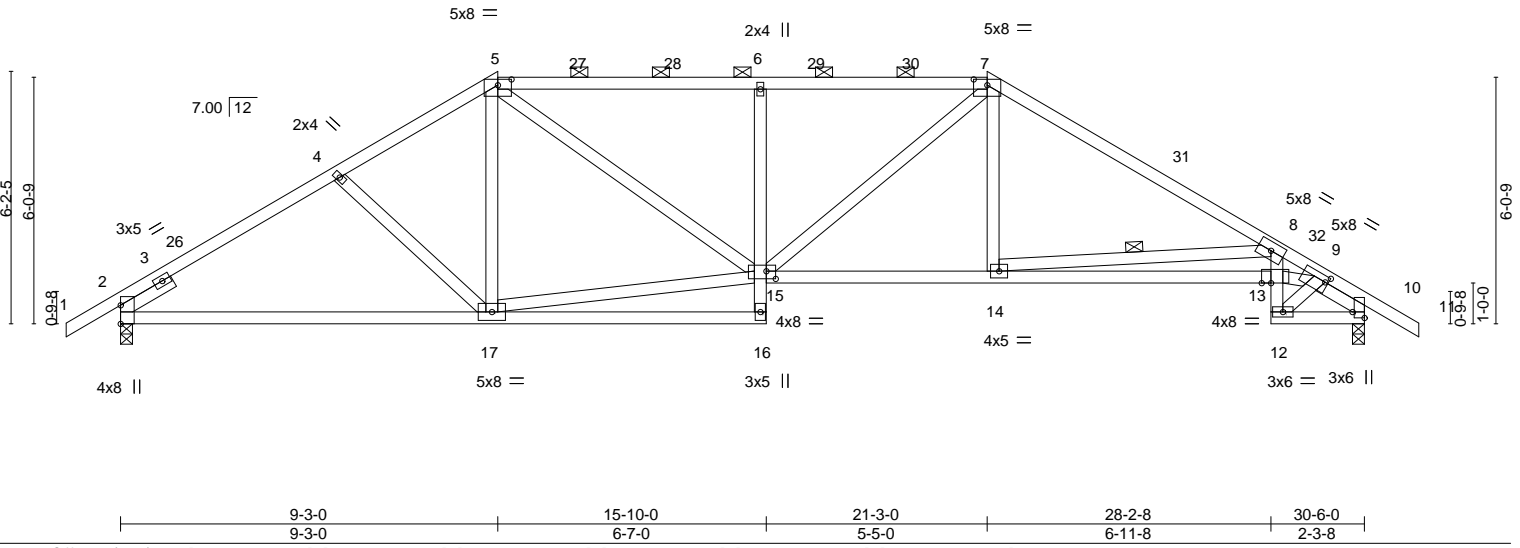


Plate Offsets (X,Y)--	[5:0-4-0,0-1-11], [7:0-4-0,0-1-11], [9:0-0-15,0-1-12], [10:Edge,0-3-9], [13:0-2-12,0-0-0], [15:0-2-12,0-2-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.15 13-14 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.34 13-14 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.16 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 181 lb	FT = 20%

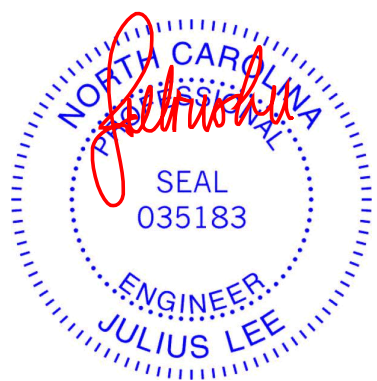
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-16: 2x4 SP No.3, 13-15: 2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
9-13: 2x4 SP No.2  
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-3-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (3-6-5 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 8-14

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
Max Horz 2=104(LC 11)  
Max Uplift 2=-42(LC 12), 10=-42(LC 12)  
Max Grav 2=1300(LC 1), 10=1300(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1789/57, 4-5=-1620/60, 5-6=-1972/70, 6-7=-1975/66, 7-8=-2058/34, 8-9=-3300/0,  
9-10=-379/0  
BOT CHORD 2-17=0/1461, 6-15=-419/77, 14-15=0/1686, 13-14=0/3336, 12-13=0/784, 8-13=0/589,  
10-12=0/1022  
WEBS 15-17=0/1258, 5-15=0/775, 7-15=-9/493, 7-14=0/435, 8-14=-1648/90, 9-13=0/2546,  
9-12=-1004/0

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-3-0, Exterior(2R) 9-3-0 to 13-5-15, Interior(1) 13-5-15 to 21-3-0, Exterior(2R) 21-3-0 to 25-5-15, Interior(1) 25-5-15 to 31-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 10. 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.

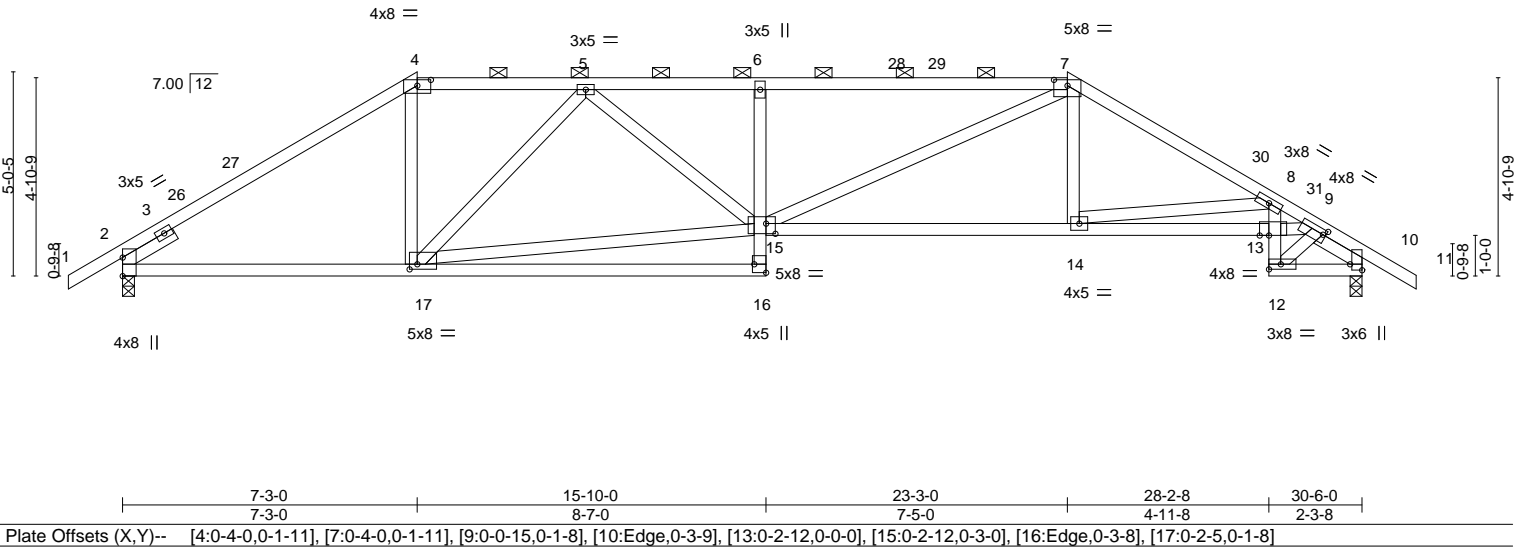
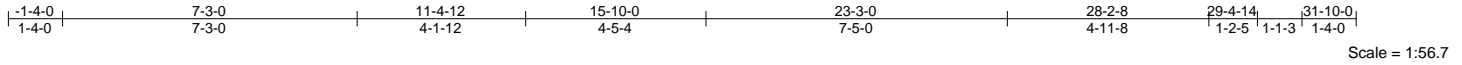


March 23, 2022

**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 22020369-01	Truss H1CR	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211758
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:46 2022 Page 1
					ID:cAXIwBcFhviGNsOCDTPEKSYnyV8-3JhPRKdf4vY00tk5E1QgAc908_WaY93DmxRCAOzYLdB
					Job Reference (optional) 30-6-0



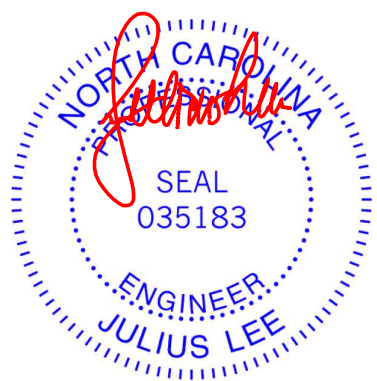
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.18	16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.91	Vert(CT) -0.42	16-17	>872	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.16	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 174 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-11-0 max.): 4-7.
BOT CHORD 2x4 SP No.2 *Except* 6-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 9-13: 2x4 SP No.2	
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-3-8	

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
 Max Horz 2=84(LC 11)  
 Max Uplift 2=-42(LC 12), 10=-42(LC 12)  
 Max Grav 2=1300(LC 1), 10=1300(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1804/37, 4-5=-1485/60, 5-6=-2582/53, 6-7=-2657/54, 7-8=-2266/19, 8-9=-3200/0,  
 9-10=-374/0  
 BOT CHORD 2-17=0/1469, 16-17=0/263, 6-15=-413/87, 14-15=0/1922, 13-14=0/3048, 12-13=0/1011,  
 8-13=0/511, 10-12=0/1077  
 WEBS 4-17=0/628, 5-17=-948/21, 15-17=0/1824, 5-15=0/681, 7-15=-13/904, 7-14=0/443,  
 8-14=-1124/67, 9-13=0/2497, 9-12=-1229/0

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-3-0, Exterior(2R) 7-3-0 to 11-4-12, Interior(1) 11-4-12 to 23-3-0, Exterior(2R) 23-3-0 to 27-5-15, Interior(1) 27-5-15 to 31-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 j(s) 2 and 10. 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 23, 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 22020369-01	Truss H1DR	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211759
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:48 2022 Page 1  
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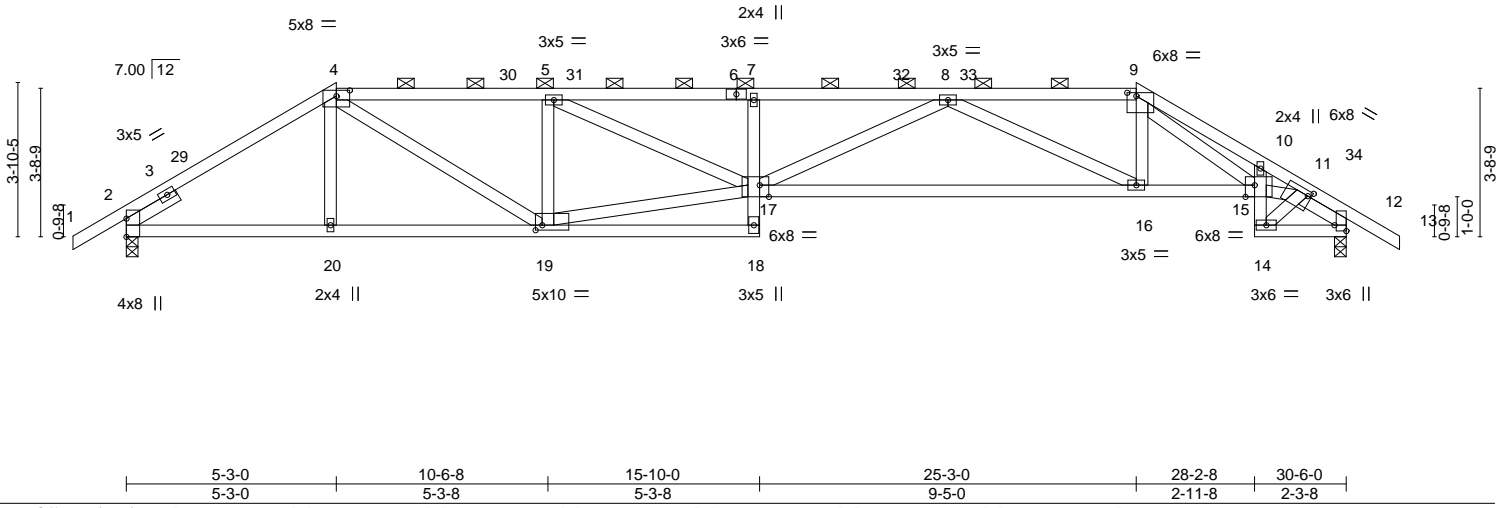
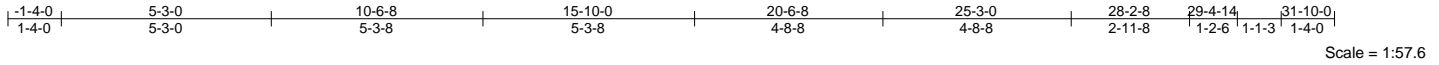


Plate Offsets (X,Y)--	[4:0-4-0,0-1-11], [9:0-2-12,0-1-0], [11:0-1-3,0-1-8], [12:Edge,0-3-9], [15:0-2-12,Edge], [17:0-2-12,Edge], [19:0-2-0,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.28 16-17 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.70 16-17 >525 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.18 12 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 170 lb	FT = 20%

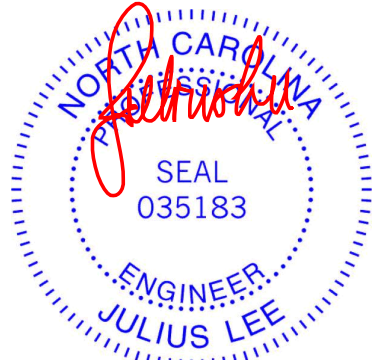
**LUMBER-**  
**TOP CHORD** 2x4 SP No.2  
**BOT CHORD** 2x4 SP No.2 \*Except\*  
 2-18,15-17: 2x4 SP No.1, 7-18: 2x4 SP No.3  
**WEBS** 2x4 SP No.3  
**SLIDER** Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-3-8

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied, except  
 2-0-0 oc purlins (2-8-5 max.): 4-9.  
**BOT CHORD** Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=64(LC 11)  
 Max Uplift 2=-42(LC 12), 12=-42(LC 12)  
 Max Grav 2=1300(LC 1), 12=1300(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-4=-1824/32, 4-5=-2485/51, 5-7=-3779/31, 7-8=-3878/17, 8-9=-2197/0, 9-10=-3217/33,  
 10-11=-3131/0, 11-12=-338/0  
**BOT CHORD** 2-20=0/1507, 19-20=0/1506, 7-17=-280/62, 16-17=0/3344, 15-16=0/2245, 14-15=0/798,  
 12-14=0/1050  
**WEBS** 4-19=0/1222, 5-19=-983/56, 17-19=0/2342, 5-17=0/1388, 8-17=0/634, 8-16=-1328/81,  
 9-16=0/853, 11-15=0/2335, 11-14=-1026/0, 9-15=-102/714

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-3-0, Exterior(2R) 5-3-0 to 9-5-15, Interior(1) 9-5-15 to 25-3-0, Exterior(2R) 25-3-0 to 29-4-14, Interior(1) 29-4-14 to 31-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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.



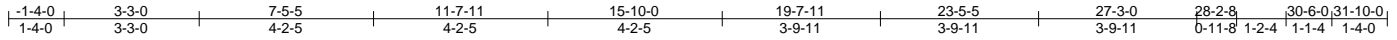
March 23, 2022

**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 22020369-01	Truss H1GRR	Truss Type HIP GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211760
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:55 2022 Page 1  
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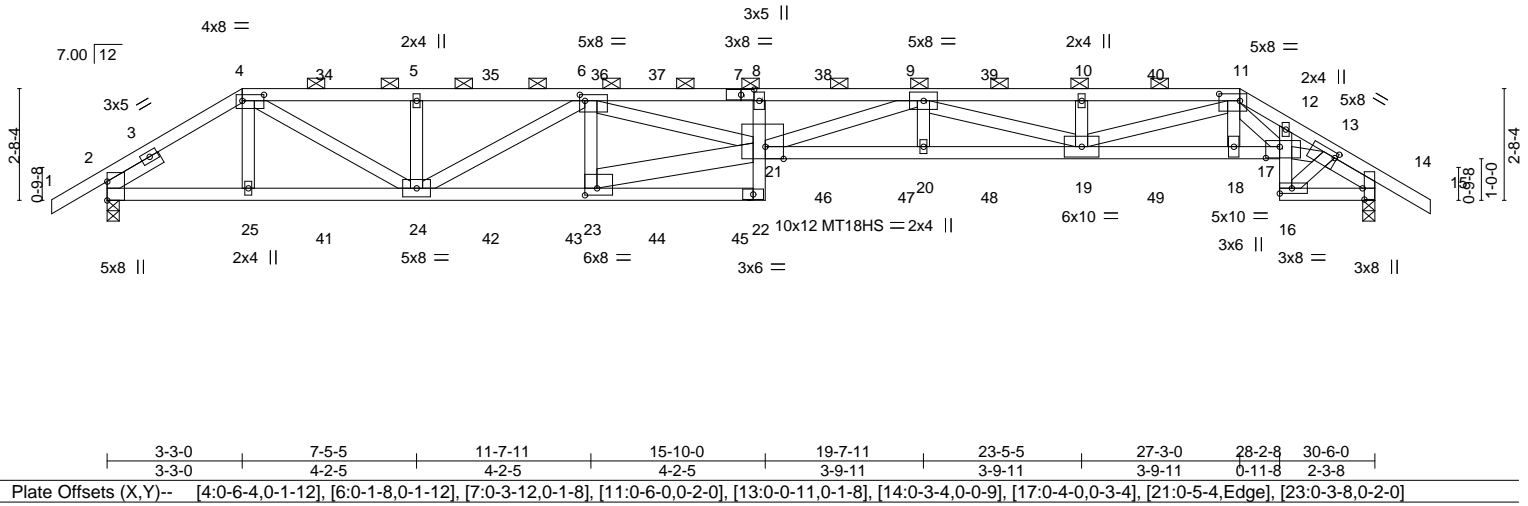


Plate Offsets (X,Y)--	[4:0-6-4,0-1-12], [6:0-1-8,0-1-12], [7:0-3-12,0-1-8], [11:0-6-0,0-2-0], [13:0-0-11,0-1-8], [14:0-3-4,0-0-9], [17:0-4-0,0-3-4], [21:0-5-4,Edge], [23:0-3-8,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.59 20-21 >621 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -1.19 20-21 >307 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(CT) 0.29 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 171 lb	FT = 20%

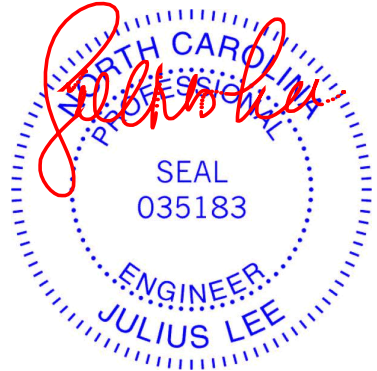
**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 4-7,7-11: 2x4 SP 2400F 2.0E  
 BOT CHORD 2x4 SP 2400F 2.0E \*Except\*  
 8-22,12-16: 2x4 SP No.1  
 WEBS 2x4 SP No.3 \*Except\*  
 21-23: 2x6 SP No.2, 6-21,13-17: 2x4 SP No.2  
 9-19,11-19,9-21: 2x4 SP No.1  
 SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-3-9

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-4-1 oc purlins, except 2-0-0 oc purlins (2-4-15 max.): 4-11.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8  
 Max Horz 2=46(LC 26)  
 Max Uplift 2=-147(LC 8), 14=-151(LC 8)  
 Max Grav 2=1627(LC 1), 14=1627(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2258/186, 4-5=-3530/278, 5-6=-3530/278, 6-8=-7554/554, 8-9=-7895/570,  
 9-10=-5782/486, 10-11=-5782/486, 11-12=-4182/299, 12-13=-4043/286, 13-14=-465/29  
 BOT CHORD 2-25=-101/1854, 24-25=-100/1859, 23-24=-265/4432, 22-23=-30/570, 20-21=-514/7411,  
 19-20=-510/7437, 18-19=-237/3392, 17-18=-233/3339, 16-17=-44/1045, 14-16=-74/1377  
 WEBS 4-24=-138/1938, 5-24=-286/105, 6-24=-1055/74, 6-23=-867/122, 21-23=-234/3921,  
 6-21=-243/3348, 9-19=-1758/113, 11-19=-223/2558, 11-18=-46/510, 13-16=-1363/73,  
 13-17=-190/3008, 11-17=-14/521, 9-21=-32/525

- 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; Pr. Open; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
  - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23, 2022

Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 818 Soundside Road Edenton, NC 27932
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Job 22020369-01	Truss H1GRR	Truss Type HIP GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211760
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:55 2022 Page 2  
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**NOTES-**

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 155 lb down and 46 lb up at 3-3-0, 63 lb down and 42 lb up at 5-2-4, 63 lb down and 42 lb up at 7-2-4, 63 lb down and 42 lb up at 9-2-4, 56 lb down and 42 lb up at 11-2-4, 55 lb down and 42 lb up at 13-2-4, 55 lb down and 42 lb up at 15-2-4, 50 lb down and 30 lb up at 17-2-4, 50 lb down and 30 lb up at 19-2-4, 58 lb down and 30 lb up at 21-2-4, 58 lb down and 30 lb up at 23-2-4, and 58 lb down and 30 lb up at 25-2-4, and 102 lb down and 30 lb up at 27-3-0 on top chord, and 180 lb down and 61 lb up at 3-3-0, 19 lb down at 5-2-4, 19 lb down at 7-2-4, 19 lb down at 9-2-4, 19 lb down at 11-2-4, 19 lb down at 13-2-4, 19 lb down at 15-2-4, 24 lb down and 18 lb up at 17-2-4, 24 lb down and 18 lb up at 19-2-4, 24 lb down and 18 lb up at 21-2-4, 24 lb down and 18 lb up at 23-2-4, and 24 lb down and 18 lb up at 25-2-4, and 159 lb down and 70 lb up at 27-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-11=-60, 11-15=-60, 22-26=-20, 17-21=-20, 16-30=-20

Concentrated Loads (lb)

Vert: 4=-28(F) 7=-12(F) 11=-32(F) 25=-180(F) 24=-8(F) 5=-12(F) 9=-7(F) 19=-20(F) 10=-7(F) 18=-159(F) 34=-12(F) 35=-12(F) 36=-12(F) 37=-12(F) 38=-7(F) 39=-7(F) 40=-7(F) 41=-8(F) 42=-8(F) 43=-8(F) 44=-8(F) 45=-8(F) 46=-20(F) 47=-20(F) 48=-20(F) 49=-20(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

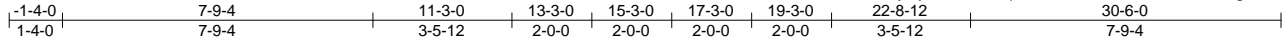




Job 22020369-01	Truss H1SB	Truss Type COMMON	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211762
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:05 2022 Page 1

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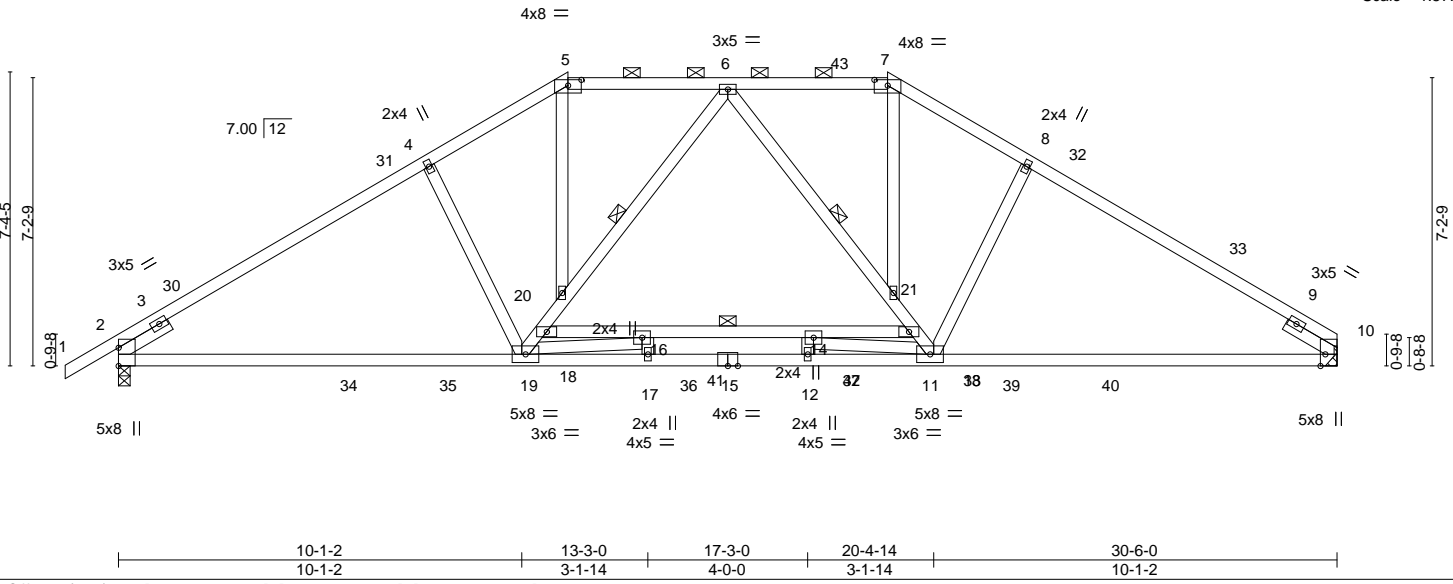


Plate Offsets (X,Y)-- [5:0-4-0,0-1-11], [7:0-4-0,0-1-11], [10:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.20	11-24	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.97	Vert(CT) -0.41	12-17	>889	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.11	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 183 lb	FT = 20%

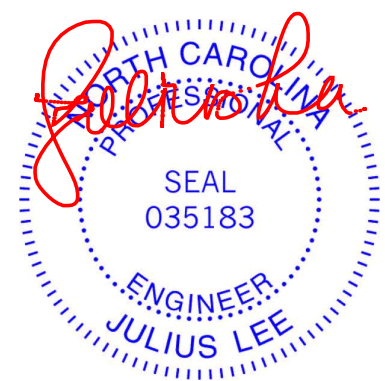
**LUMBER-**  
TOP CHORD 2x4 SP No.1 \*Except\*  
5-7: 2x4 SP No.2  
BOT CHORD 2x4 SP No.1 \*Except\*  
13-18: 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
6-11,6-19: 2x4 SP No.1  
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (4-0-0 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied. Except:  
6-0-0 oc bracing: 13-18  
WEBS 1 Row at midpt 6-11, 6-19

**REACTIONS.** (size) 10=Mechanical, 2=0-3-8  
Max Horz 2=120(LC 11)  
Max Grav 10=1763(LC 18), 2=1836(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-2619/0, 4-5=-2461/0, 7-8=-2467/0, 8-10=-2625/0, 5-6=-2087/0, 6-7=-2091/0  
BOT CHORD 2-19=0/2238, 17-19=0/2662, 12-17=0/2662, 11-12=0/2662, 10-11=0/2162, 16-18=0/1046,  
14-16=-772/0, 13-14=0/1049  
WEBS 6-21=-274/43, 13-21=0/723, 11-13=0/1218, 18-19=0/1206, 18-20=0/713, 6-20=-278/45,  
12-14=0/253, 11-14=-1733/0, 16-19=-1732/0, 5-20=0/1008, 7-21=0/1013

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-3-0, Exterior(2R) 11-3-0 to 15-3-0, Interior(1) 15-3-0 to 19-3-0, Exterior(2R) 19-3-0 to 23-5-15, Interior(1) 23-5-15 to 30-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 350.0lb AC unit load placed on the bottom chord, 15-3-0 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.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23,2022

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818 Soundside Road  
Edenton, NC 27932





Job 22020369-01	Truss H1SD	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211764
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:11 2022 Page 1
					ID:cAXlwBcFhvIGNsOCDTPEKSyNyV8-q7hshtxLCahFWj9uCnNXhthlc33QvYcuWK_1YRzYLco
Job Reference (optional)					



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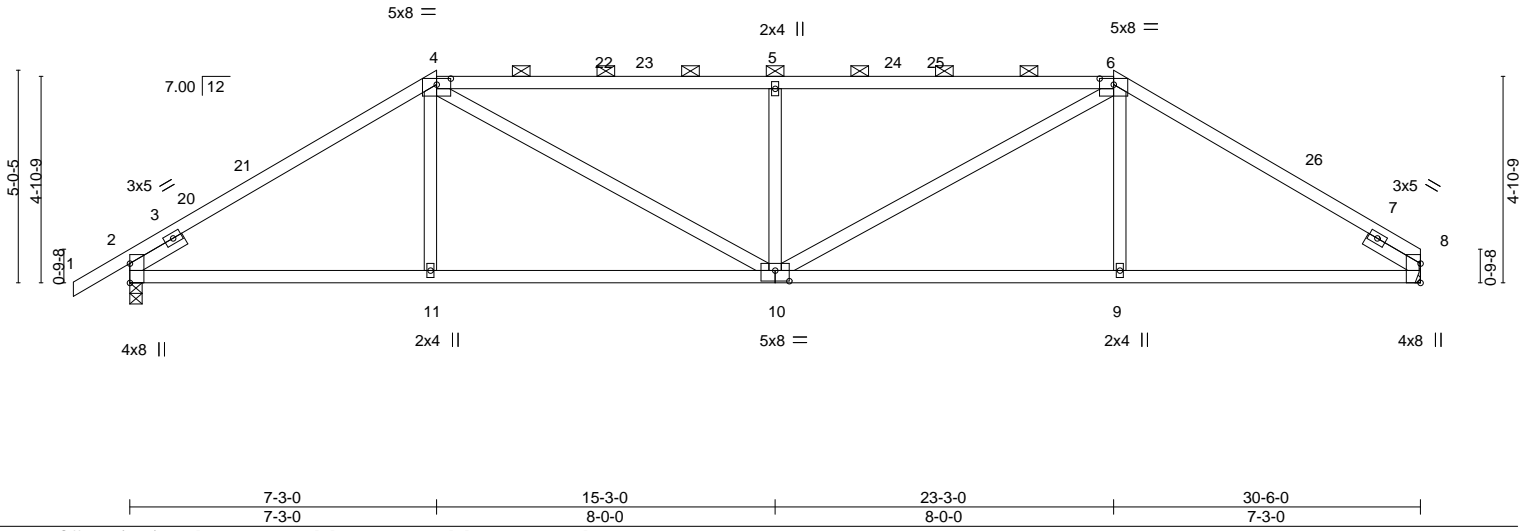


Plate Offsets (X,Y)--	[4:0-4-0,0-1-11], [6:0-4-0,0-1-11], [10:0-4-0,0-3-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.14 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.35	Vert(CT) -0.32 10-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.10 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 147 lb	FT = 20%

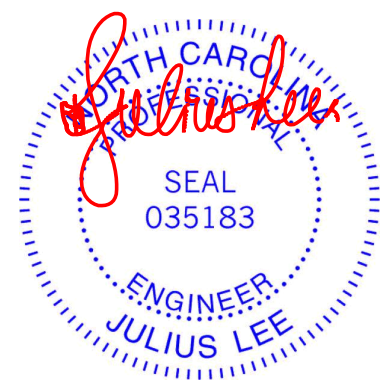
**LUMBER-**  
**TOP CHORD** 2x4 SP No.2 \*Except\*  
4-6: 2x4 SP No.1  
**BOT CHORD** 2x4 SP No.2  
**WEBS** 2x4 SP No.3  
**SLIDER** Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied, except  
2-0-0 oc purlins (3-1-2 max.): 4-6.  
**BOT CHORD** Rigid ceiling directly applied.

**REACTIONS.** (size) 8=Mechanical, 2=0-3-8  
Max Horz 2=81(LC 11)  
Max Uplift 8=-8(LC 12), 2=-43(LC 12)  
Max Grav 8=1218(LC 1), 2=1302(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-4=-1819/40, 4-5=-2137/68, 5-6=-2137/68, 6-8=-1827/43  
**BOT CHORD** 2-11=0/1488, 10-11=0/1484, 9-10=0/1492, 8-9=0/1496  
**WEBS** 4-11=0/274, 4-10=-0/842, 5-10=-578/104, 6-10=0/837, 6-9=0/275

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-3-0, Exterior(2R) 7-3-0 to 11-5-15, Interior(1) 11-5-15 to 23-3-0, Exterior(2R) 23-3-0 to 27-5-15, Interior(1) 27-5-15 to 30-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
  - 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
  - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23, 2022

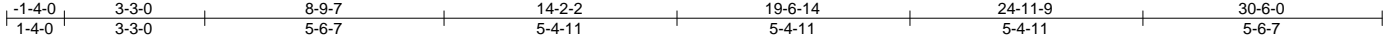
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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Job 22020369-01	Truss H1GRA	Truss Type Half Hip Girder	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211766
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:52 2022 Page 1  
 ID:cAXlwBcFhviGNsOCDTPEKSyNyV8-tT2giOiQglykoCFbHX4QtP1kOYZyqN58tuWO2zYLd5



Scale = 1:53.3

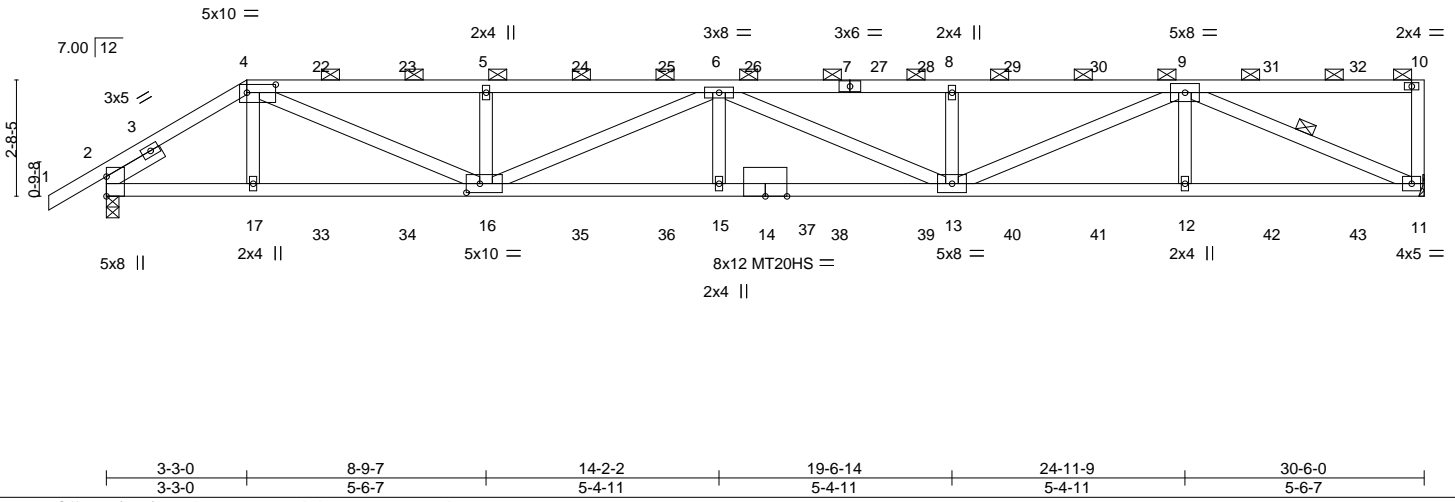


Plate Offsets (X,Y)-- [4:0-8-0,0-2-4], [16:0-3-12,0-2-8]

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 0.98	Vert(LL)	-0.33 13-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.68 13-15	>535	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.89	Horz(CT)	0.13 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 156 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 4-7: 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 1-6-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 1-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-3-7 max.): 4-10.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 9-11

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8  
 Max Horz 2=77(LC 7)  
 Max Uplift 11=-106(LC 5), 2=-136(LC 8)  
 Max Grav 11=1381(LC 1), 2=1597(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2244/167, 4-5=-3820/262, 5-6=-3820/262, 6-8=-4109/263, 8-9=-4109/263  
 BOT CHORD 2-17=-149/1842, 16-17=-148/1850, 15-16=-270/4490, 13-15=-270/4490, 12-13=-209/2652,  
 11-12=-209/2652  
 WEBS 4-16=-120/2161, 5-16=-403/133, 6-16=-741/40, 6-15=0/251, 6-13=-417/39,  
 8-13=-350/116, 9-13=-94/1594, 9-12=0/272, 9-11=-2846/207

- 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; Pr. Open; 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.
  - 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.
  - 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) except (jt=lb) 11=106.
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
  - 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.



March 23, 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.**  
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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 22020369-01	Truss H1GRA	Truss Type Half Hip Girder	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211766
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:52 2022 Page 2  
ID:cAXlwBcFhviGNsOCdTPEKSyNyV8-tT2giOiQglykoCFbHX4QtP1kOYZyqN58tuWO2zYLd5

**NOTES-**

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 155 lb down and 46 lb up at 3-3-0, 63 lb down and 42 lb up at 4-11-4, 63 lb down and 42 lb up at 6-11-4, 63 lb down and 42 lb up at 8-11-4, 58 lb down and 42 lb up at 10-11-4, 55 lb down and 42 lb up at 12-11-4, 55 lb down and 42 lb up at 14-11-4, 55 lb down and 42 lb up at 16-11-4, 63 lb down and 42 lb up at 18-11-4, 63 lb down and 42 lb up at 20-11-4, 63 lb down and 42 lb up at 22-11-4, 63 lb down and 42 lb up at 24-11-4, and 63 lb down and 42 lb up at 26-11-4, and 63 lb down and 42 lb up at 28-11-4 on top chord, and 180 lb down and 61 lb up at 3-3-0, 19 lb down at 4-11-4, 19 lb down at 6-11-4, 19 lb down at 8-11-4, 19 lb down at 10-11-4, 19 lb down at 12-11-4, 19 lb down at 14-11-4, 19 lb down at 16-11-4, 19 lb down at 18-11-4, 19 lb down at 20-11-4, 19 lb down at 22-11-4, 19 lb down at 24-11-4, and 19 lb down at 26-11-4, and 19 lb down at 28-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-10=-60, 11-18=-20  
Concentrated Loads (lb)  
Vert: 4=-28(B) 7=-12(B) 17=-180(B) 16=-8(B) 5=-12(B) 12=-8(B) 9=-12(B) 22=-12(B) 23=-12(B) 24=-12(B) 25=-12(B) 26=-12(B) 28=-12(B) 29=-12(B) 30=-12(B) 31=-12(B) 32=-12(B) 33=-8(B) 34=-8(B) 35=-8(B) 36=-8(B) 37=-8(B) 38=-8(B) 39=-8(B) 40=-8(B) 41=-8(B) 42=-8(B) 43=-8(B)

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

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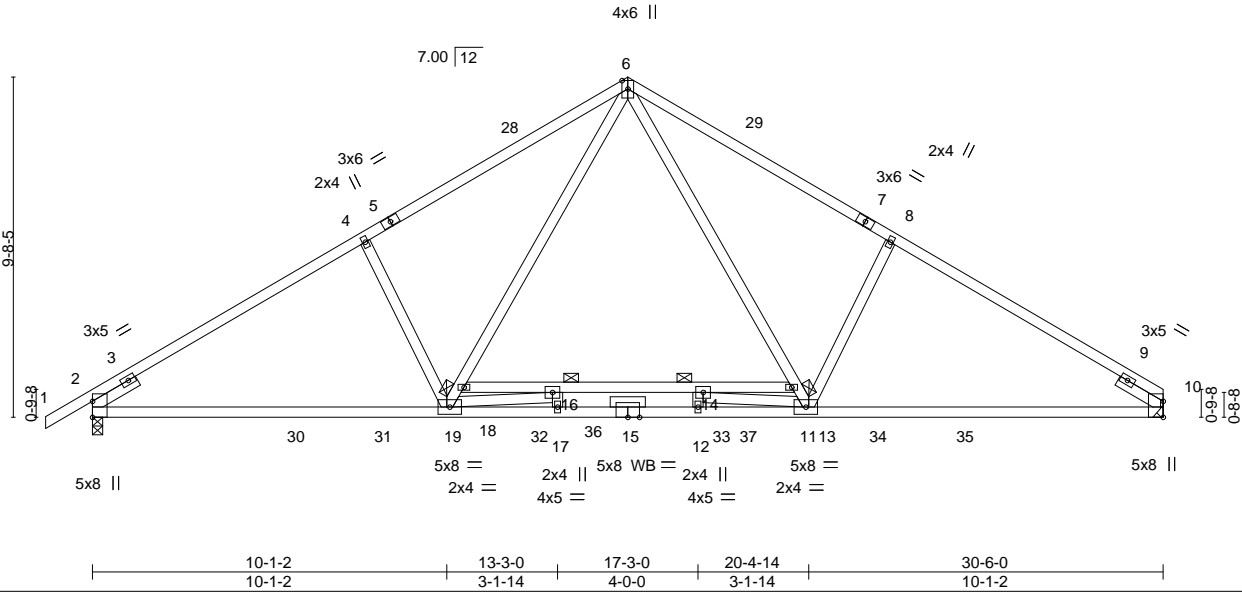


Job 22020369-01	Truss T1A	Truss Type COMMON	Qty 4	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211767
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:42 2022 Page 1  
 ID:cAXlwBcFhvIGNsOCDTPEKSyNyV8-Q43aBUJnu6bskU0sWnRpSQTcAYg3gXhSef?A88zYlCJ



Scale = 1:65.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) -0.20 12-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.46 12-17 >797 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.11 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 177 lb	FT = 20%

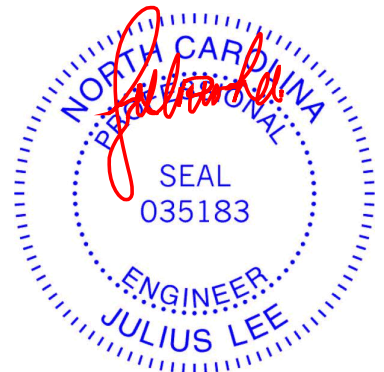
**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 1-5,7-10: 2x4 SP No.1  
 BOT CHORD 2x4 SP 2400F 2.0E \*Except\*  
 13-18: 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 6-11,6-19: 2x4 SP No.2  
 OTHERS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied. Except:  
 3-8-0 oc bracing: 13-18

**REACTIONS.** (size) 2=0-3-8, 10=Mechanical  
 Max Horz 2=161(LC 11)  
 Max Grav 2=1861(LC 17), 10=1787(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2688/0, 4-6=-2543/0, 6-8=-2549/0, 8-10=-2694/0  
 BOT CHORD 2-19=0/2337, 17-19=0/3399, 12-17=0/3399, 11-12=0/3399, 10-11=0/2230, 14-16=-1985/0  
 WEBS 6-13=0/1248, 11-13=0/1110, 8-11=-380/168, 18-19=0/1102, 6-18=0/1239, 4-19=-374/167,  
 11-14=-1861/0, 16-19=-1862/0

- 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; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-3-0, Exterior(2R) 15-3-0 to 18-3-0, Interior(1) 18-3-0 to 30-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 350.0lb AC unit load placed on the bottom chord, 15-3-0 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 BCCL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 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

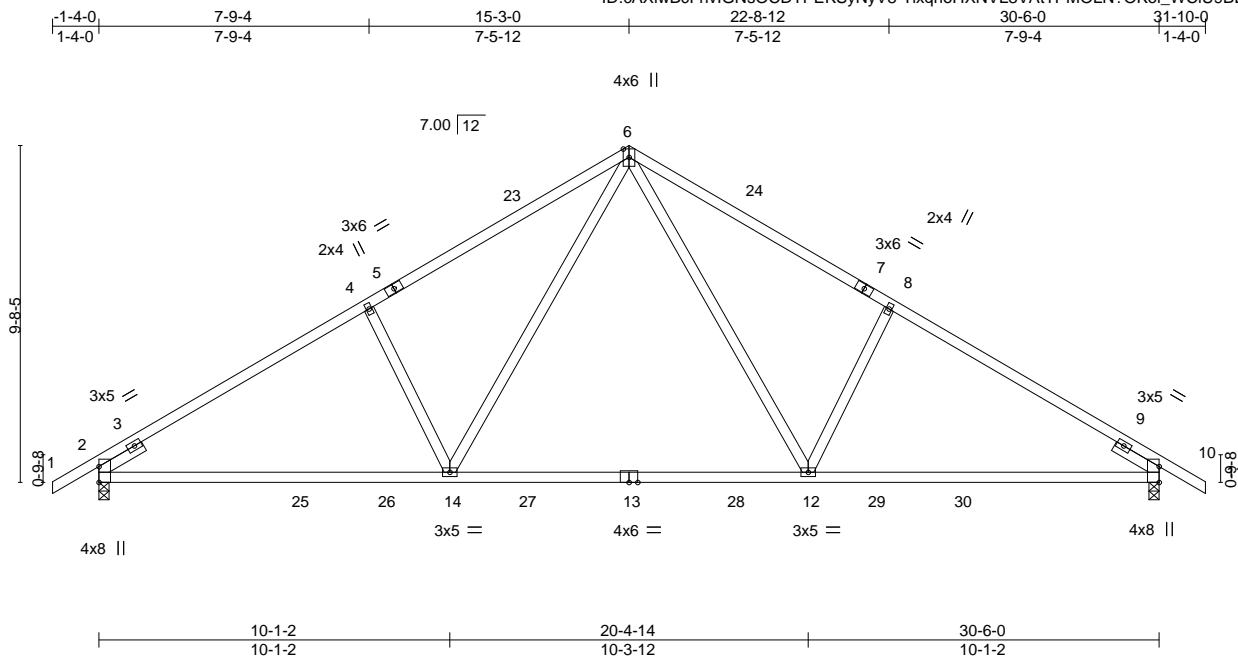


818 Soundside Road  
 Edenton, NC 27932

Job 22020369-01	Truss T1	Truss Type COMMON	Qty 2	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211768
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:40 2022 Page 1  
ID:cAXlwBcFhviGNsOCDTPEKSyNyV8-TixqnoHXNVL8VAITPMOLN?OKol\_WCIU9BLW34GzYLcL



Scale = 1:66.3

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.37 12-14 >992 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Vert(CT) -0.59 12-14 >616 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 154 lb	FT = 20%

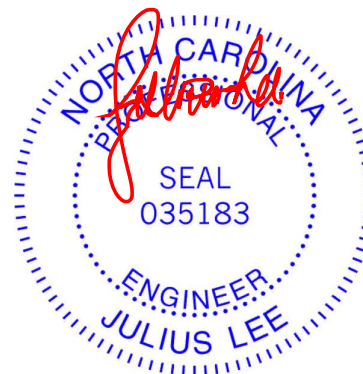
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
8-12,4-14: 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

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

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
Max Horz 2=164(LC 11)  
Max Uplift 2=-42(LC 12), 10=-42(LC 12)  
Max Grav 2=1483(LC 17), 10=1483(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-2023/79, 4-6=-1884/135, 6-8=-1885/135, 8-10=-2023/79  
BOT CHORD 2-14=0/1779, 12-14=0/1200, 10-12=0/1659  
WEBS 6-12=-11/869, 8-12=-396/146, 6-14=-11/869, 4-14=-396/146

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-3-0, Exterior(2R) 15-3-0 to 18-3-0, Interior(1) 18-3-0 to 31-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
  - 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 23, 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 22020369-01	Truss M1	Truss Type MONOPITCH	Qty 10	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211769
Carter Components (Lexington), Lexington, NC - 27295,			8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:33 2022 Page 1		
-1-4-0 1-4-0			10-0-0 10-0-0		
ID:cAXIwBcFhVlGNsOCDTPEKSYNyV8-BM0AJPC80LS895q7VOmiaWb6nwdM3Xa7alJBKAzYLcS					
Job Reference (optional)					

Scale = 1:20.7

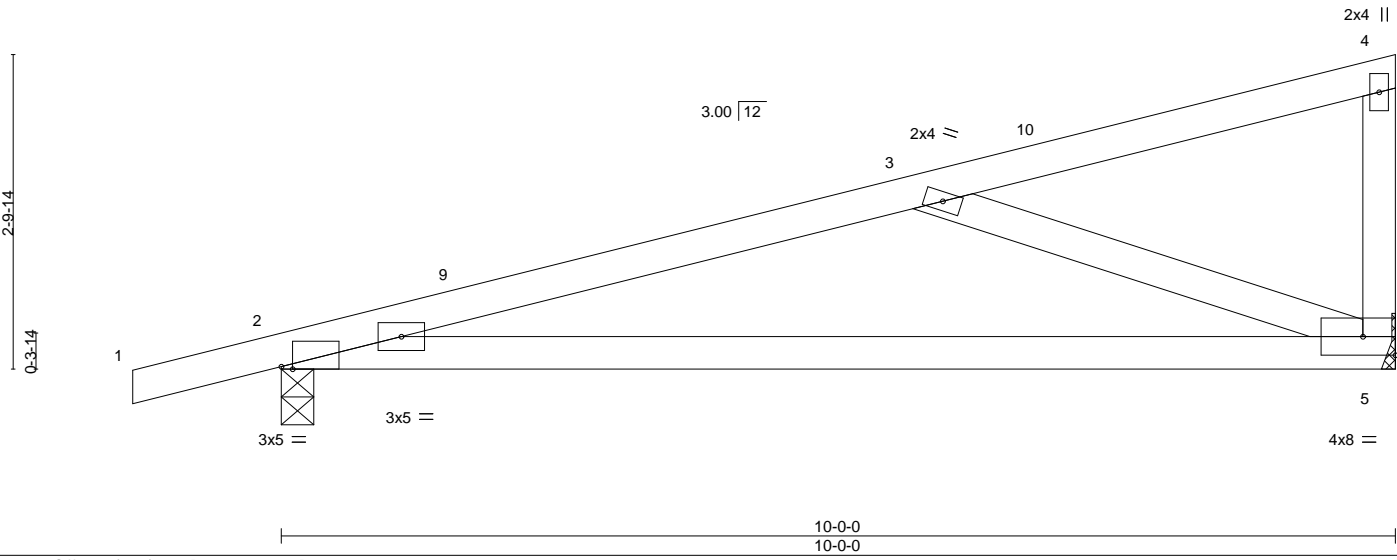


Plate Offsets (X,Y)--	[2:0-1-3,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.18 5-8 >666 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.38 5-8 >314 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 42 lb	FT = 20%

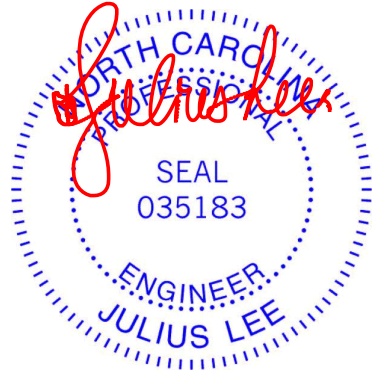
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

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

**REACTIONS.** (size) 2=0-3-8, 5=Mechanical  
Max Horz 2=80(LC 8)  
Max Uplift 2=-46(LC 8), 5=-21(LC 8)  
Max Grav 2=480(LC 1), 5=389(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-710/185  
BOT CHORD 2-5=-242/680  
WEBS 3-5=-657/266

- 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; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) 5.
  - 6) Two SBP4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 2022

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

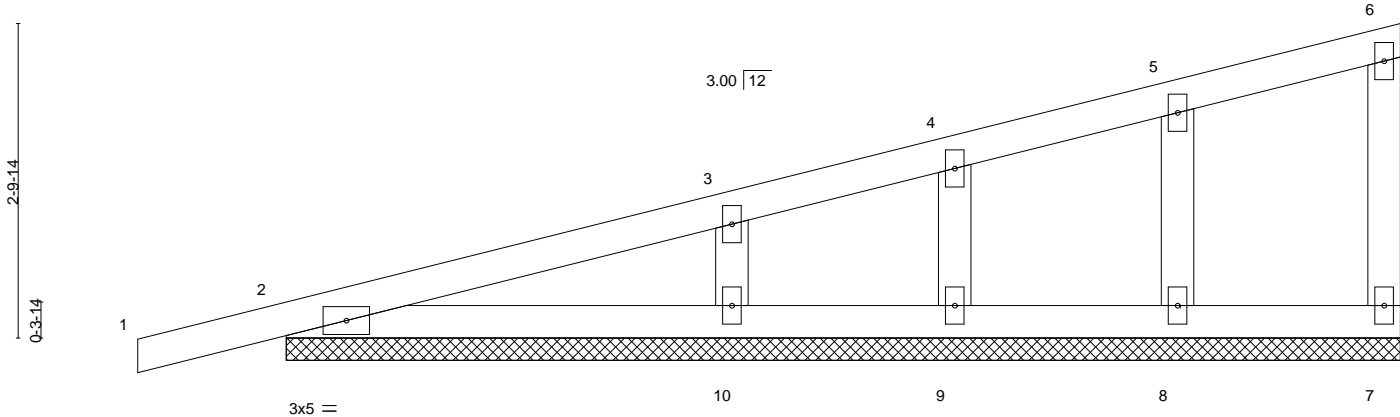
818 Soundside Road  
Edenton, NC 27932

Job 22020369-01	Truss M1G	Truss Type GABLE	Qty 2	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211770
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:35 2022 Page 1  
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Scale = 1:20.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 41 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

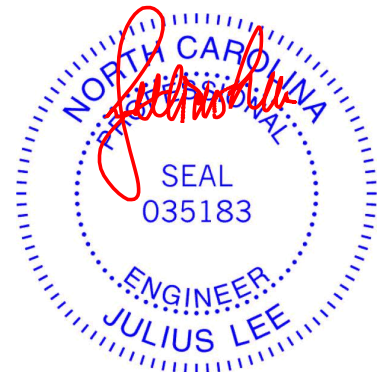
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 10-0-0.  
(lb) - Max Horz 2=79(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10  
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=299(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 9-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 8, 9, and 10. 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 23, 2022

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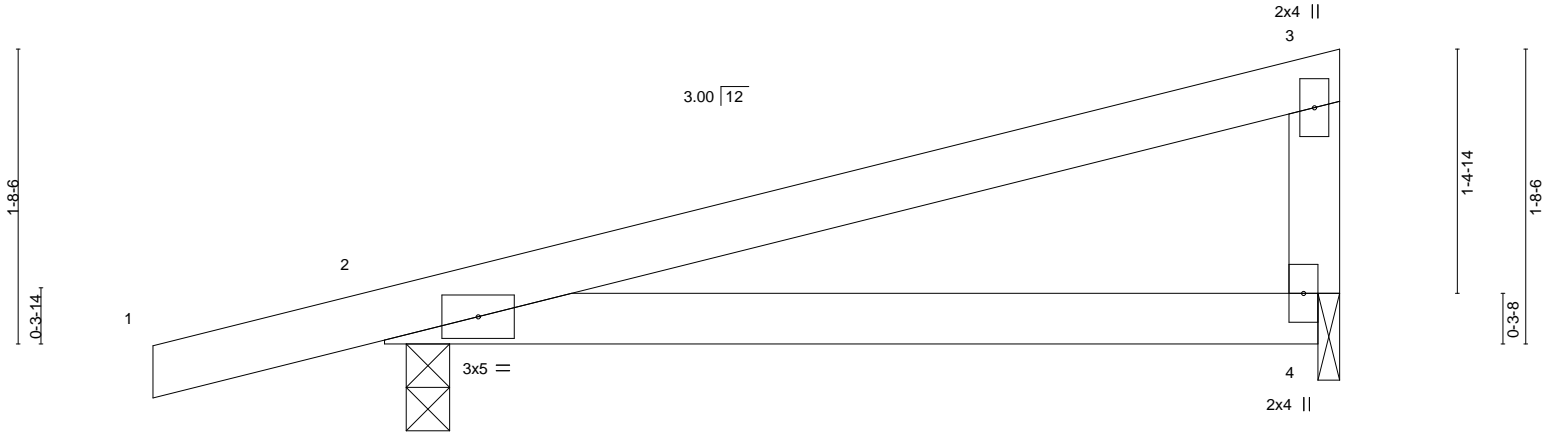
818 Soundside Road  
Edenton, NC 27932

Job 22020369-01	Truss M2	Truss Type MONOPITCH	Qty 8	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211771
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:36 2022 Page 1  
 ID:cAXlwBcFhvIGNsOCDTPEKSyNyV8-bxiJxRE0JGri0ZZiAXKPC9Di08kjGxEaGjYrwVzYLcP



Scale = 1:13.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	0.09 4-7	>702	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.08 4-7	>855	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 20 lb	FT = 20%

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

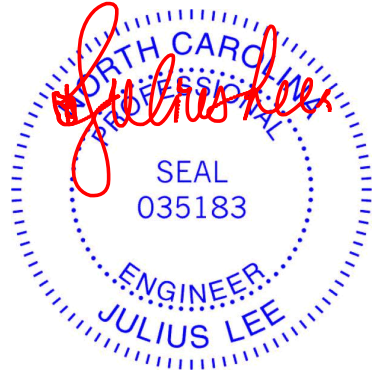
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-0, 4=0-1-8  
 Max Horz 2=49(LC 8)  
 Max Uplift 2=-90(LC 8), 4=-53(LC 8)  
 Max Grav 2=304(LC 1), 4=204(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-4-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 2022

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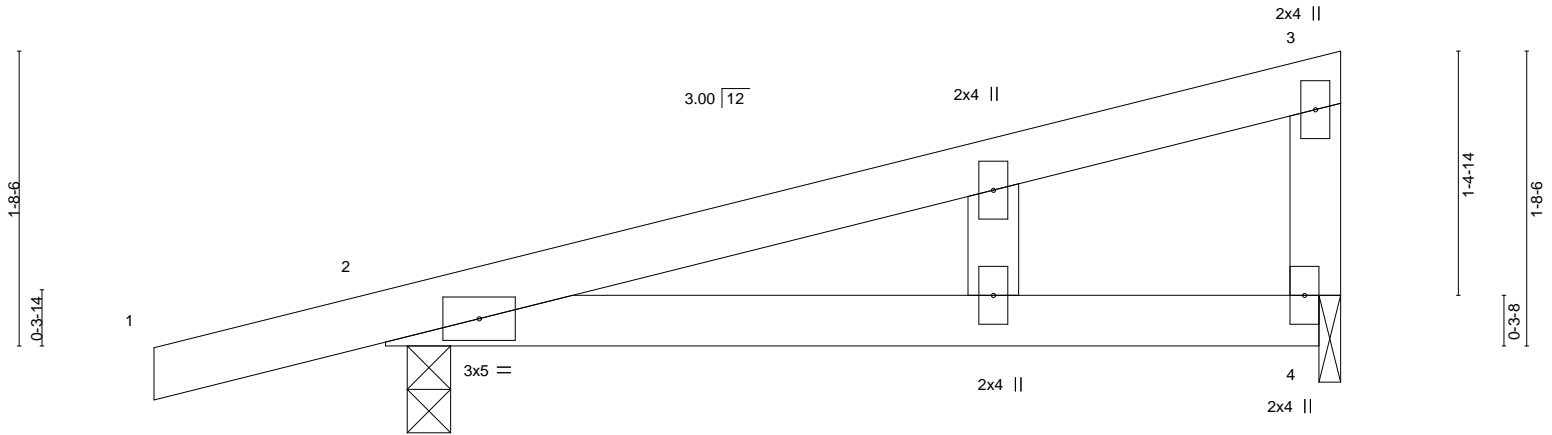


Job 22020369-01	Truss M2G	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Roof Truss T27211772
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:00:38 2022 Page 1  
ID:cAXlwBcFhvIGNsOCDTPEKSyNyV8-XJq3M6GHrt5QFsj5HxMtHal2uxQBkrksj11y?NzYlcn



Scale = 1:13.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	0.09	4-9	>702	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.08	4-9	>855	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 21 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, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-0, 4=0-1-8  
Max Horz 2=49(LC 8)  
Max Uplift 2=-90(LC 8), 4=-53(LC 8)  
Max Grav 2=304(LC 1), 4=204(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Pr. Open; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-4-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 23, 2022

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

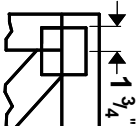
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



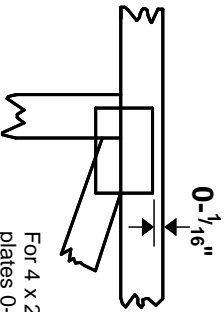
818 Soundside Road  
Edenton, NC 27932

# 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

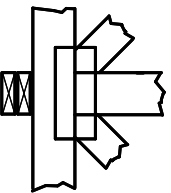
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



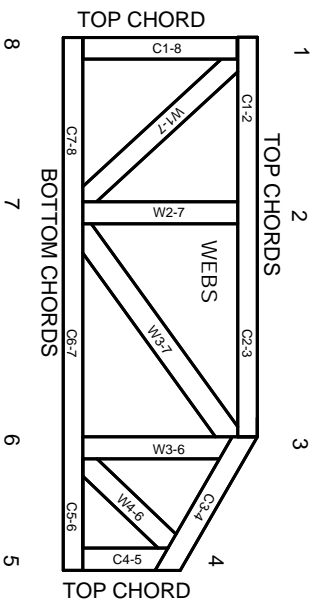
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

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

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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