

Trenco
818 Soundside Rd
Edenton, NC 27932

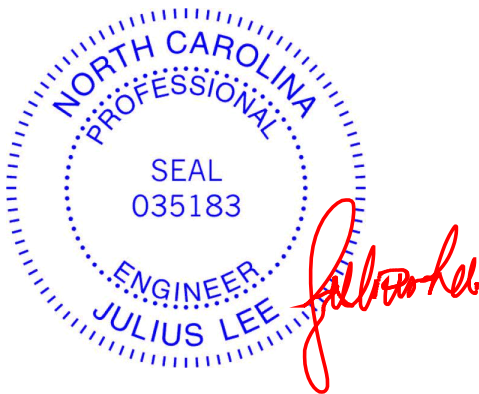
Re: 22020373-01
Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss

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: T27214633 thru T27214671

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

North Carolina COA: C-0844



March 24, 2022

Lee, Julius

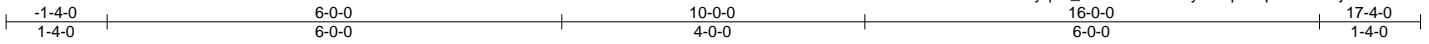
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 22020373-01	Truss H4	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214633
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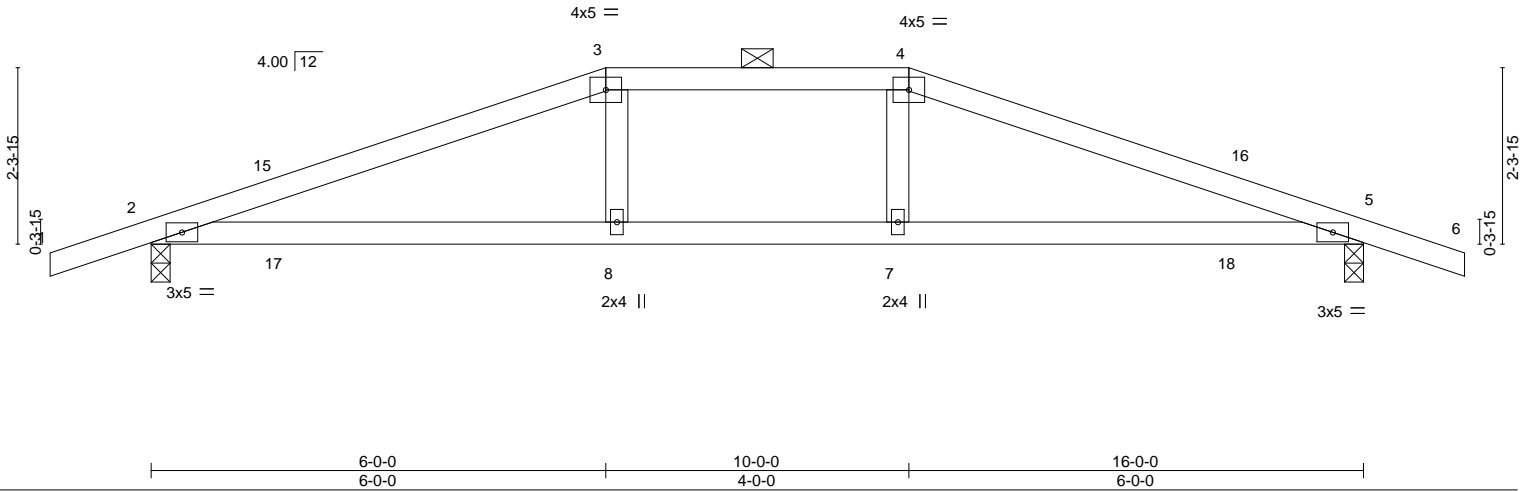
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:03 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-yqeL_BZvwzuxh3GYyUT6pStapLTP7ofvzjs90YzYFHW



Scale = 1:30.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	0.16 8-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.19 8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.03 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 58 lb	FT = 20%

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

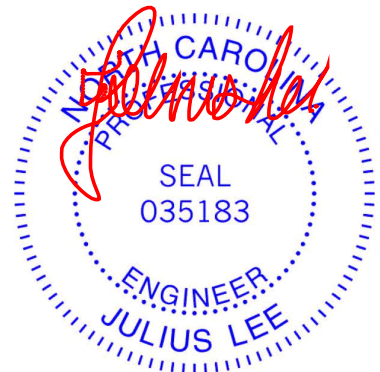
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (5-2-3 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 5=0-3-0
 Max Horz 2=-20(LC 10)
 Max Uplift 2=-143(LC 12), 5=-143(LC 12)
 Max Grav 2=720(LC 1), 5=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1322/1083, 3-4=-1230/1074, 4-5=-1322/1093
 BOT CHORD 2-8=-976/1221, 7-8=-990/1230, 5-7=-975/1221

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-0-0, Exterior(2E) 6-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 24, 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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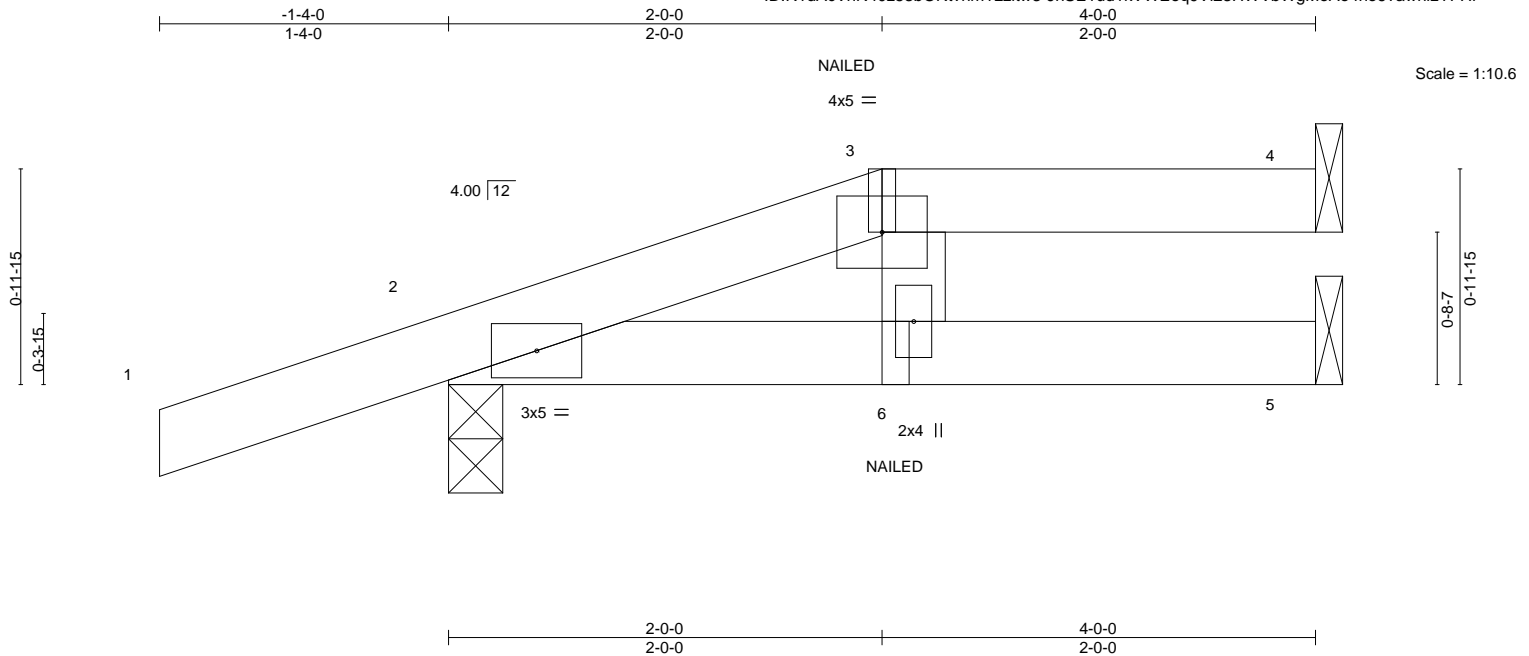
Job 22020373-01	Truss J4A	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214634
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:08 2022 Page 1

ID:R1dAcVhN40z53bONtvm1LzItw3-JnSE1ud1kVWEoq9V123HWVbWgMeAo4he6?awhlzYFHR

Job Reference (optional)



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	0.02	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.03	6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 15 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-3-0, 5=Mechanical
 Max Horz 2=30(LC 8)
 Max Uplift 4=17(LC 4), 2=62(LC 8), 5=19(LC 5)
 Max Grav 4=58(LC 1), 2=252(LC 1), 5=97(LC 3)

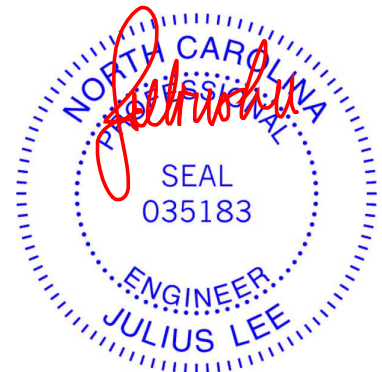
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 4 and 19 lb uplift at joint 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) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



March 24, 2022

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

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

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



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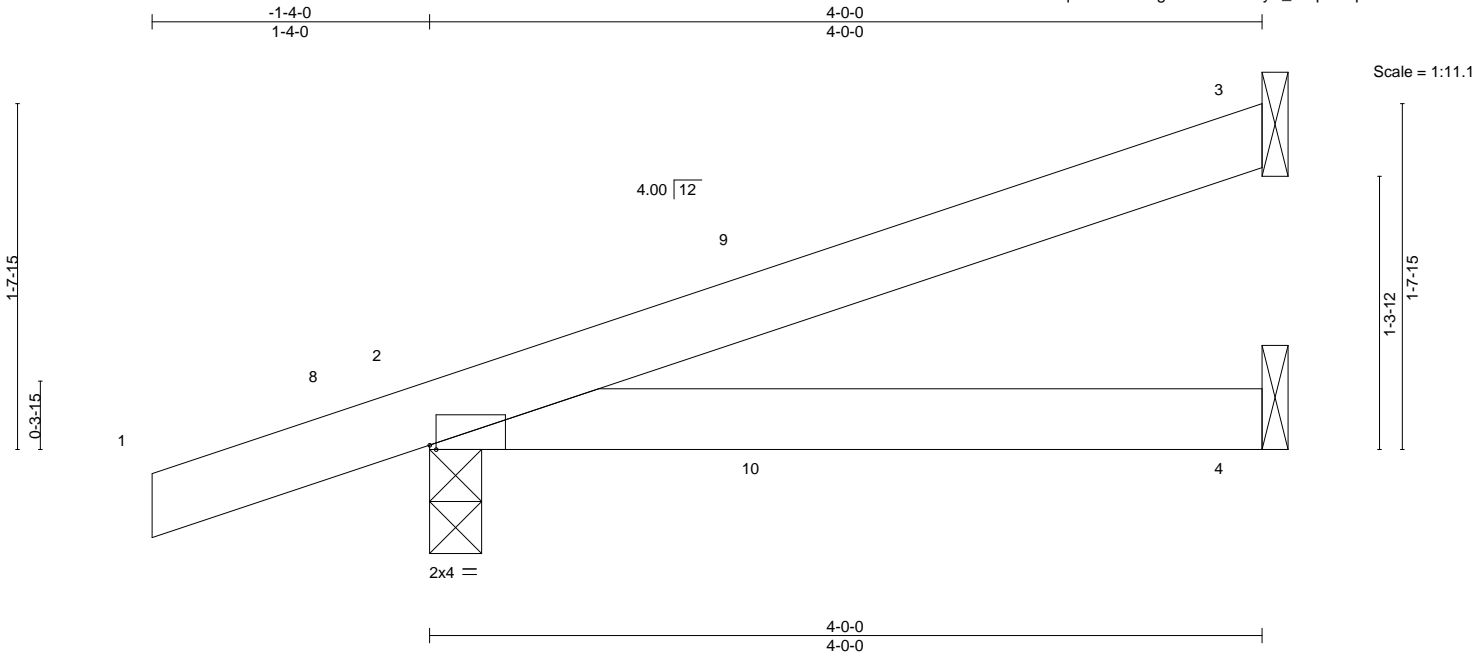
Job 22020373-01	Truss J4	Truss Type JACK-OPEN	Qty 5	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214635
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Carter Components (Lexington), Lexington, NC - 27295,

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ID:R1dAcVhN40z53bONtvnm1Lzltw3-rbusqZcPzCONAgaJBKY2zl2LlyK_3dqVuLqN9JzYFHs

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) 0.03 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 4-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 14 lb	FT = 20%

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

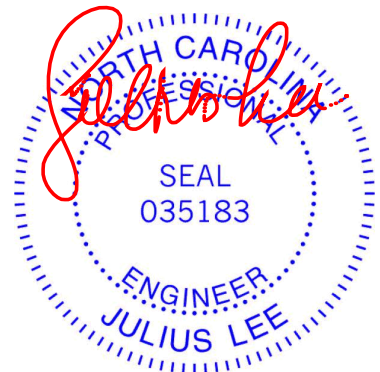
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=45(LC 12)
Max Uplift 3=-19(LC 12), 2=-58(LC 12), 4=-8(LC 12)
Max Grav 3=96(LC 1), 2=251(LC 1), 4=68(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3 and 8 lb uplift at joint 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 24, 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

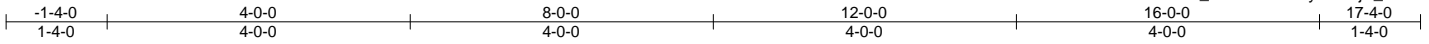


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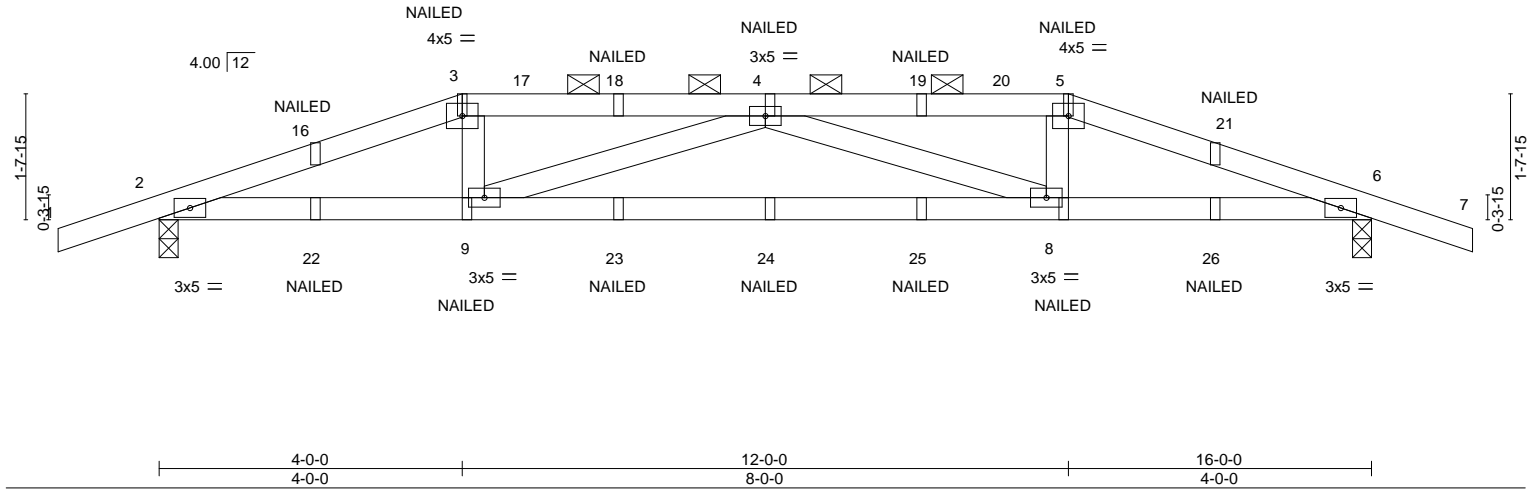
Job 22020373-01	Truss H4GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214636
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

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ID:R1dAcVhN40z53bONtvmn1Lzltw3-Q0CkCXaXhH0oJCrkWC_LLfQm5IAIsDy3CNcjY_zYFHv



Scale = 1:30.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	0.17 8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.32 8-9	>598	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 3-10-4 oc purlins, except
2-0-0 oc purlins (3-8-11 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 6=0-3-0
Max Horz 2=-15(LC 6)
Max Uplift 2=-198(LC 4), 6=-198(LC 5)
Max Grav 2=946(LC 1), 6=947(LC 1)

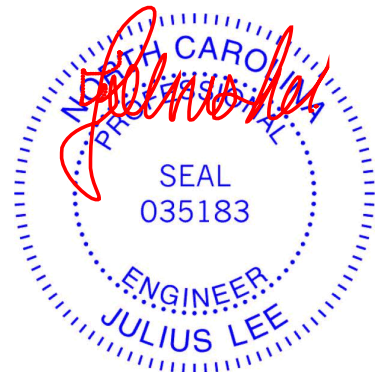
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2161/437, 3-4=-2065/429, 4-5=-2069/429, 5-6=-2165/437
BOT CHORD 2-9=-394/2021, 8-9=-513/2547, 6-8=-389/2025
WEBS 3-9=-87/454, 4-9=-543/123, 4-8=-539/122, 5-8=-87/455

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 10-13=-20
Concentrated Loads (lb)
Vert: 3=-36(F) 5=-36(F) 9=-28(F) 4=-36(F) 8=-28(F) 18=-36(F) 19=-36(F) 22=-67(F) 23=-28(F) 24=-28(F) 25=-28(F)
26=-67(F)



March 24, 2022

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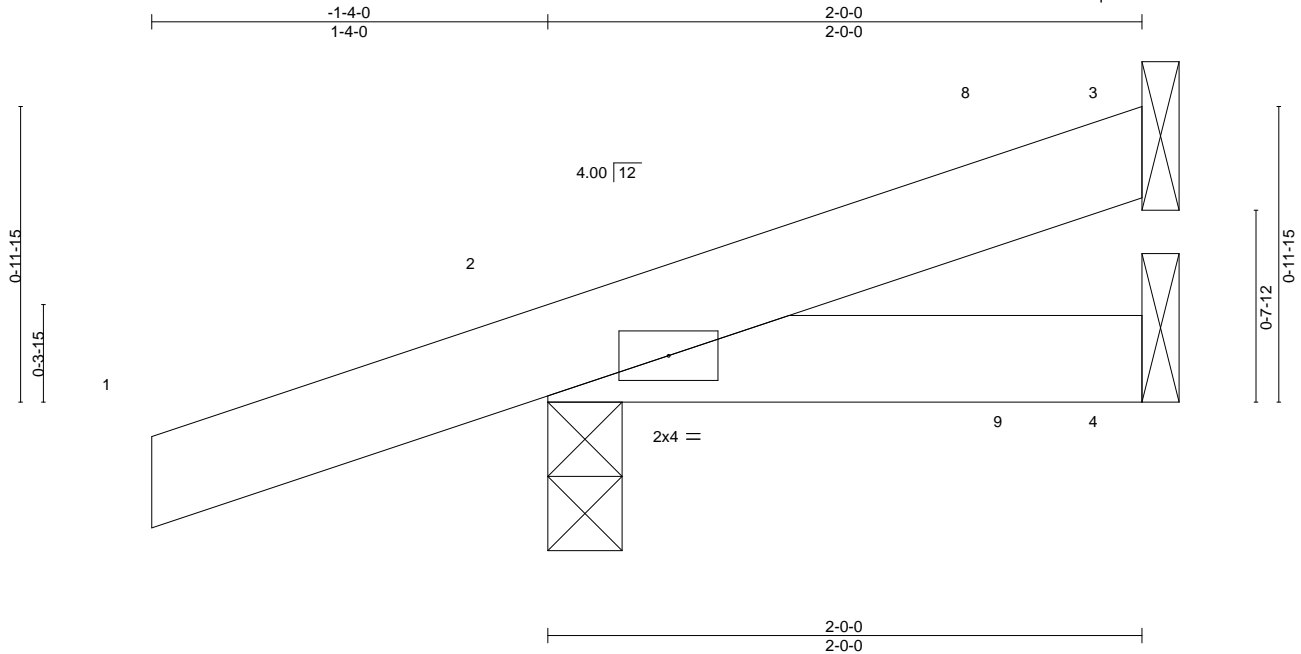
Job 22020373-01	Truss J4S	Truss Type JACK-OPEN	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214637
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:08 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-JnSE1ud1kVWEoq9Vl23HWVbXxMiao44e6?awhizYFHR

Job Reference (optional)



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

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

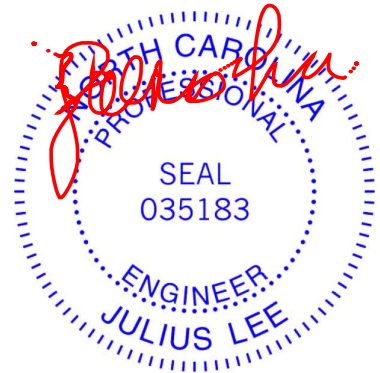
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=30(LC 12)
Max Uplift 3=-5(LC 12), 2=-52(LC 12), 4=-4(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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 1-11-14 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3 and 4 lb uplift at joint 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.



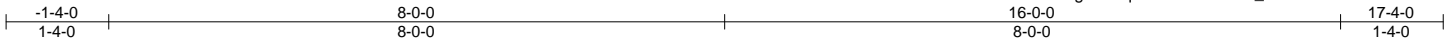
March 24, 2022

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

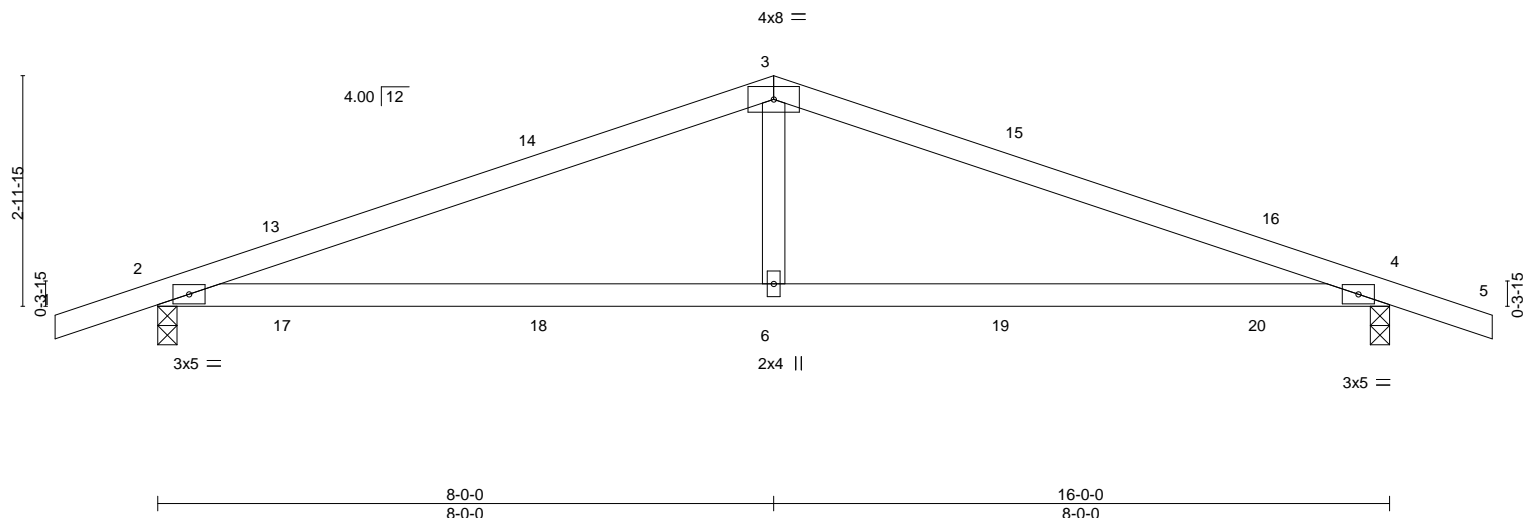


Job 22020373-01	Truss T4	Truss Type COMMON	Qty 3	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214638
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:21 2022 Page 1
 ID:R1dAcVhN40z53bONtvmn1Lzltw3-RHk9mLnBgV9Orqe?0GoKYEdbEb_BLwAZ6XD6eVzYFHe



Scale = 1:29.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	0.19 6-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.24 6-12	>809	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.02 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 57 lb	FT = 20%

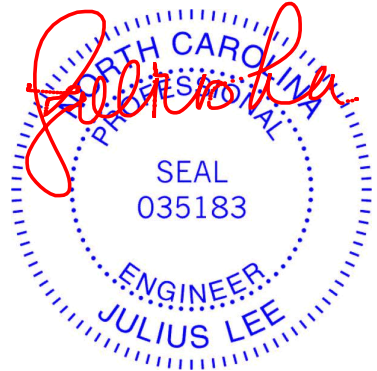
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=-26(LC 10)
 Max Uplift 2=-143(LC 12), 4=-143(LC 12)
 Max Grav 2=720(LC 1), 4=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1205/875, 3-4=-1205/875
 BOT CHORD 2-6=-759/1101, 4-6=-759/1101
 WEBS 3-6=-339/359

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 2022

Job 22020373-01	Truss J2	Truss Type Jack-Open	Qty 3	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214639
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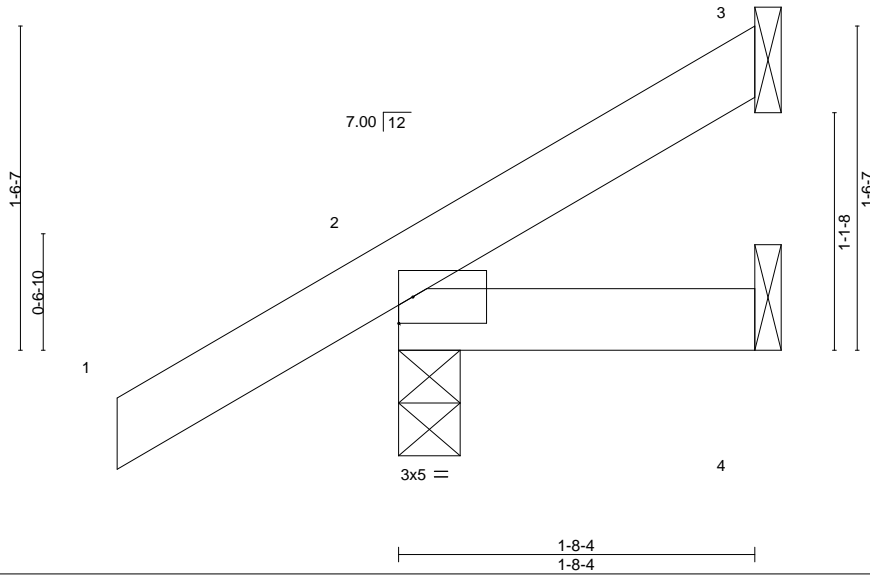
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:06 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-NPKUcDcnCuGWYw?6ed1pR4VBNY01KAaMfh5qctzYFht



Scale = 1:10.9



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

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

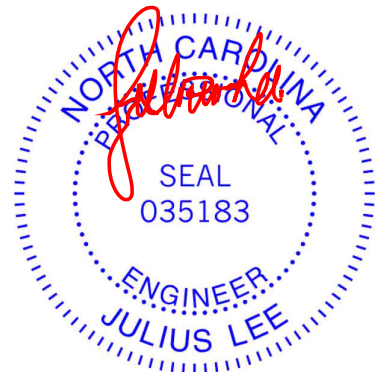
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=53(LC 12)
Max Uplift 3=7(LC 12), 2=39(LC 12)
Max Grav 3=31(LC 17), 2=179(LC 1), 4=26(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 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 7 lb uplift at joint 3.
- 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 24, 2022

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

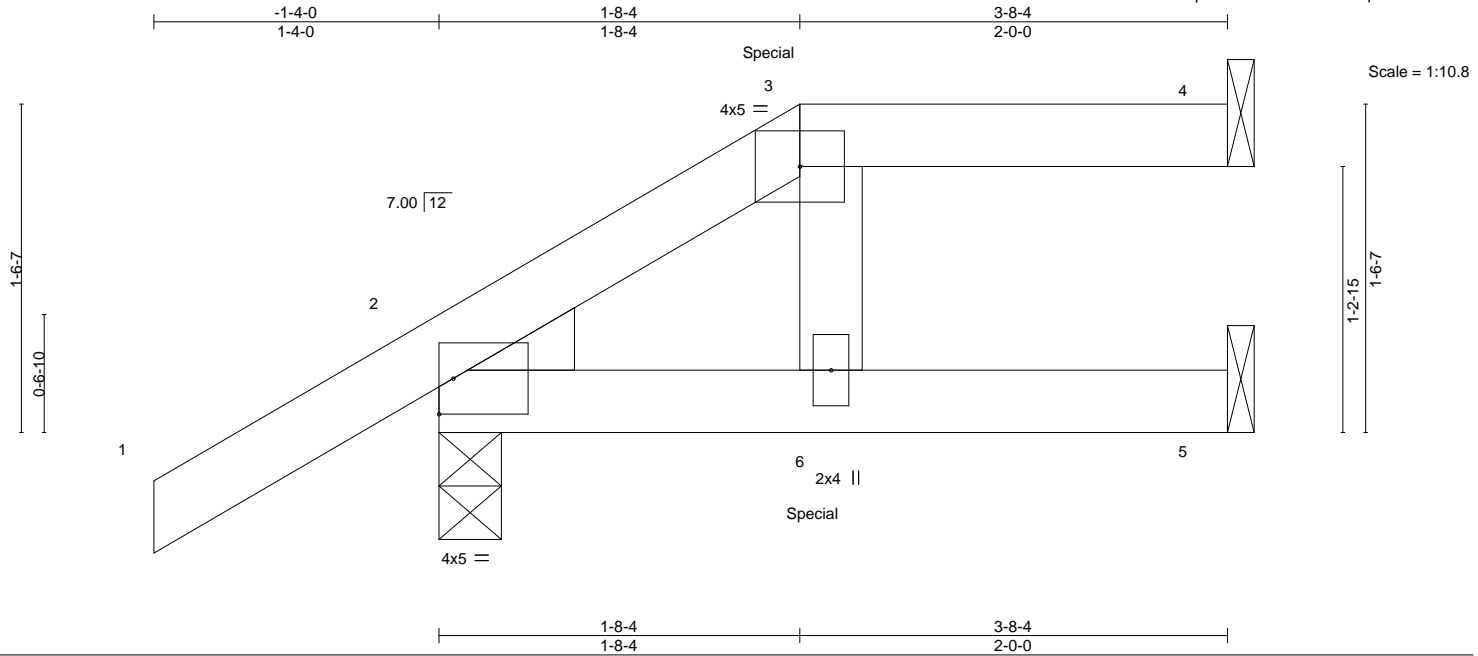
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 22020373-01	Truss J1A	Truss Type Jack-Open Girder	Qty 3	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214640
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:06 2022 Page 1
 ID:R1dAcVhN40z53bONtvnm1Lzltw3-NPKUcDcnCuGWYW?6ed1pR4VA5YsWKAoMfh5qctzYFHt



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 0.14	Vert(LL)	-0.03	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.06	6	>718		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.04	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 16 lb	FT = 20%

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

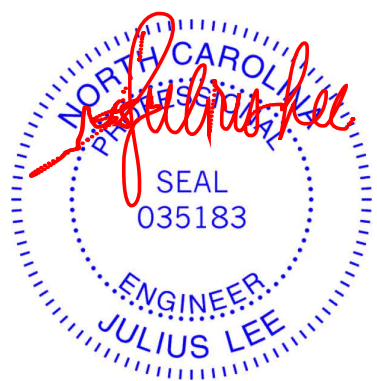
REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=54(LC 27)
 Max Uplift 4=20(LC 4), 2=38(LC 8), 5=2(LC 5)
 Max Grav 4=58(LC 1), 2=337(LC 1), 5=160(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-256/42

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 2 lb uplift at joint 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) 145 lb down and 15 lb up at 1-8-4, and 33 lb down and 19 lb up at 1-8-4 on top chord, and 45 lb down and 5 lb up at 1-8-4, and 8 lb down and 4 lb up at 1-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 5-7=-20



March 24, 2022

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss J1A	Truss Type Jack-Open Girder	Qty 3	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214640 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:06 2022 Page 2
ID:R1dAcVhN40z53bONTvnm1Lzltw3-NPKUcDcnCuGWYW?6ed1pR4VA5YsWKAoMfh5qctzYFHt

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-145(F) 6=-41(F=-45, B=4)

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 22020373-01	Truss M1	Truss Type MONOPICH	Qty 10	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214641
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:09 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-nz0dFEegVpe5P_khJlaW2j7WKmuWXV5oLJUJDCzYFHq



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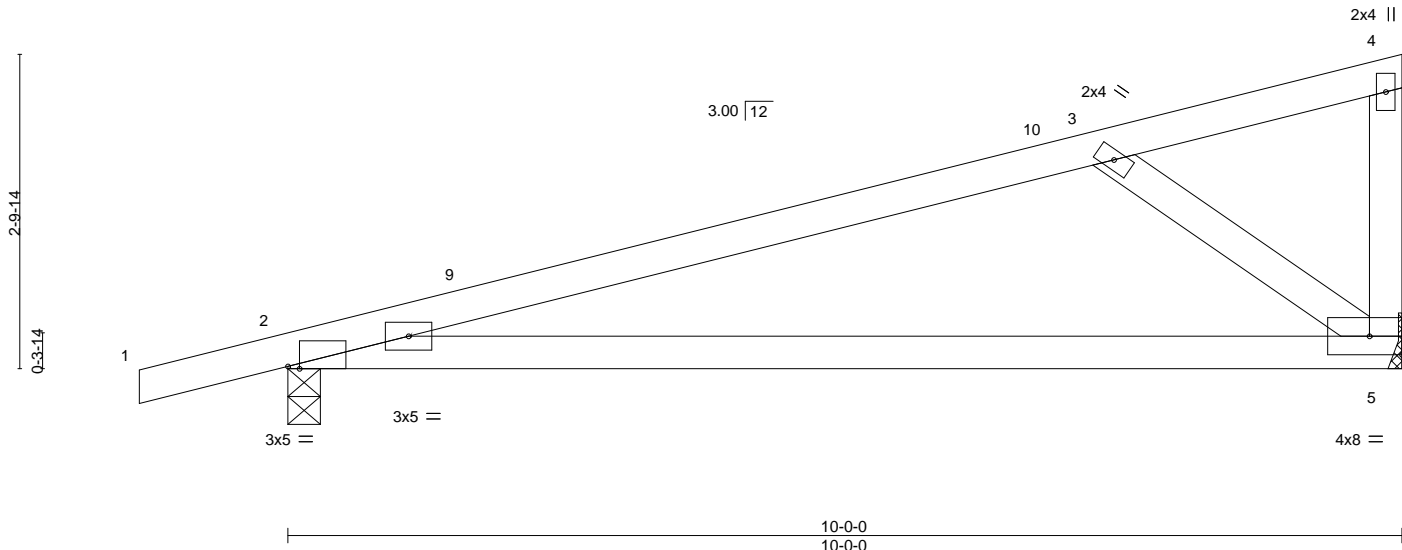


Plate Offsets (X,Y)--	[2:0-1-4,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.19	5-8	>624
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.42	5-8	>281
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	5	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 40 lb
							FT = 20%

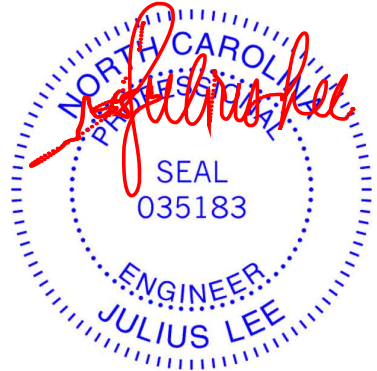
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3		

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=-542/129
 BOT CHORD 2-5=-179/506
 WEBS 3-5=-558/242

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 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 21 lb uplift at joint 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 24, 2022

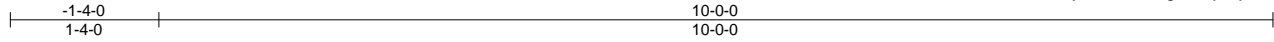
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss M1G	Truss Type MONOPITCH SUPPORTED	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214642
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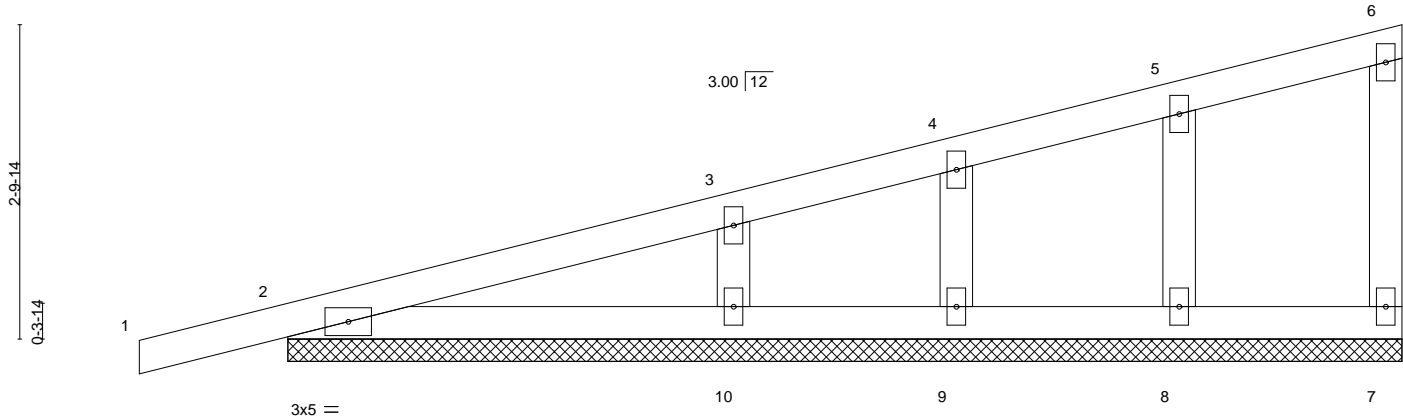
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:10 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzitw3-FAZ?SafIG7my17JutT5lbwgsz9NjG_jxaJ31ezYFHP



Scale = 1:20.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.00	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

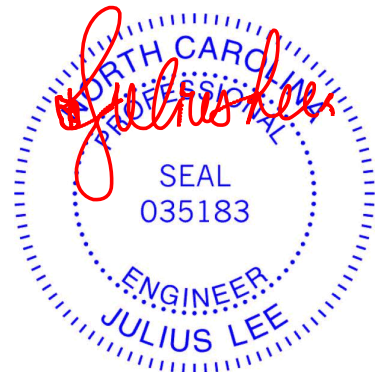
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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; Enclosed; 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) n/a
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 24, 2022

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818 Soundside Road
Edenton, NC 27932

Job 22020373-01	Truss M2B	Truss Type MONOPICH	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214643
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:12 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-BYhltGgYok1gGRSG_t8DgLI3pzw_ku3E1dY8qXzYFHn
7-8-0
7-8-0



Scale = 1:17.2

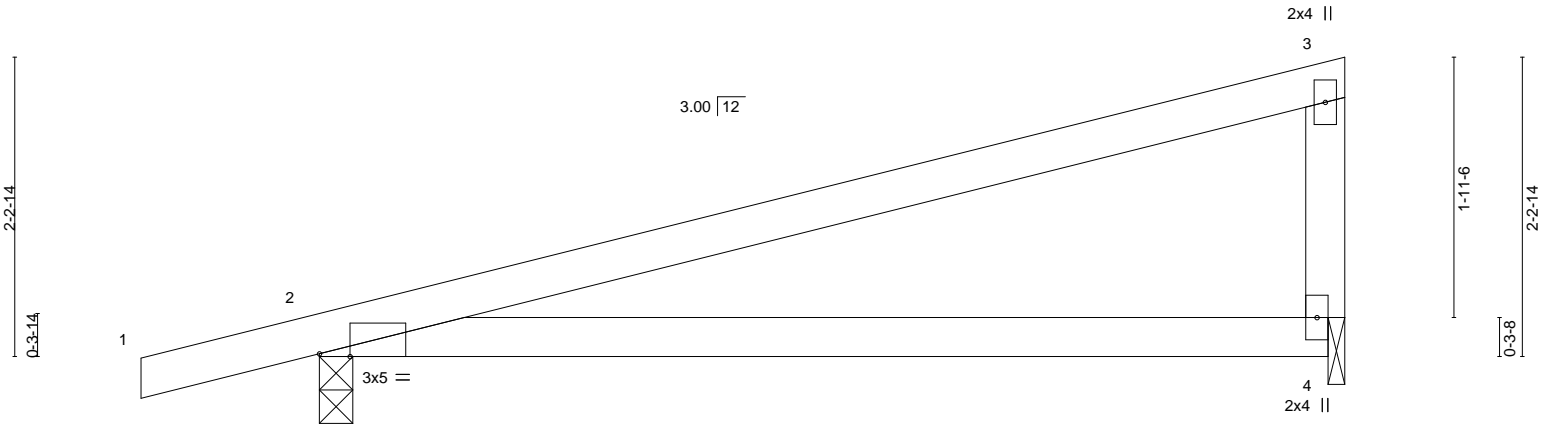


Plate Offsets (X, Y)-- [2:0-2-12,Edge]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP					
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) 0.36 4-7 >252 240	MT20	244/190					
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.29 4-7 >311 180							
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS								
				Weight: 28 lb		FT = 20%				

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

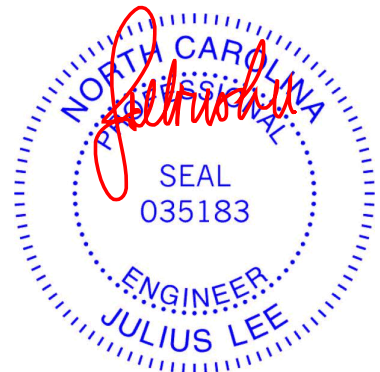
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=64(LC 8)
Max Uplift 2=-109(LC 8), 4=-78(LC 8)
Max Grav 2=388(LC 1), 4=294(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-6-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 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



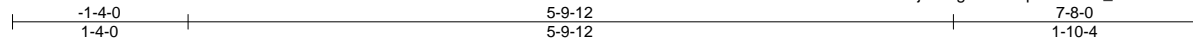
818 Soundside Road
Edenton, NC 27932

Job 22020373-01	Truss M2A	Truss Type MONOPICH	Qty 3	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214644
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:11 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-jM7Ngwfw1QupfHu4QAc_87D?4Zho?QU5pzoal4zYFH0



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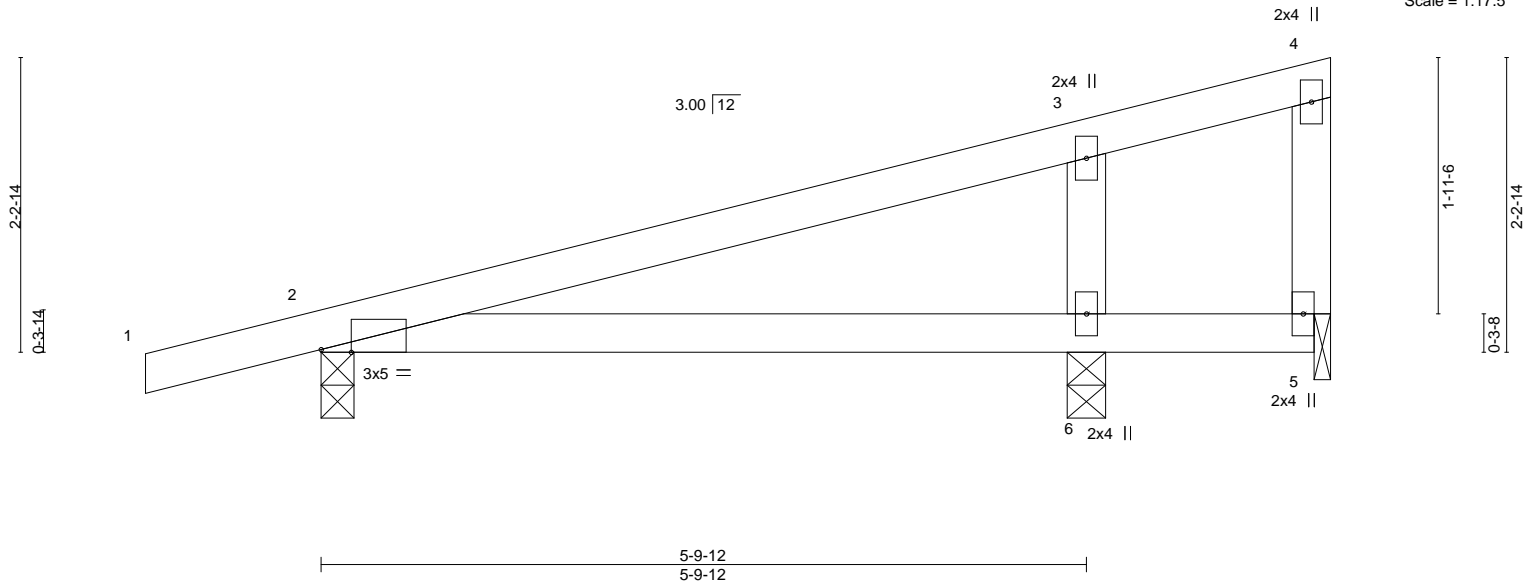


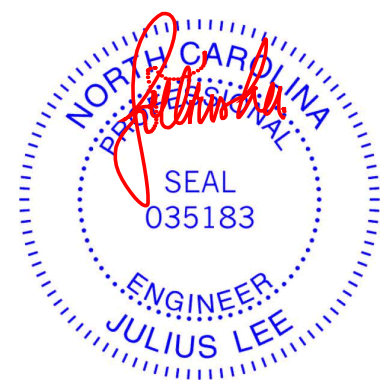
Plate Offsets (X,Y)--	[2:0-2-12,Edge]					PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl	L/d	MT20	244/190	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) 0.07 6-9 >999	240			
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.05 6-9 >999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 2 n/a n/a				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 29 lb	FT = 20%	

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

REACTIONS. (size) 2=0-3-0, 6=0-3-8, 5=0-1-8
 Max Horz 2=64(LC 8)
 Max Uplift 2=-81(LC 8), 6=-108(LC 8), 5=-72(LC 1)
 Max Grav 2=280(LC 1), 6=473(LC 1), 5=31(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-317/288

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-6-4 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) 5 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) 5.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 5. This connection is for uplift only and does not consider lateral forces.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss M2C	Truss Type MONOPIITCH	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214645
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:12 2022 Page 1

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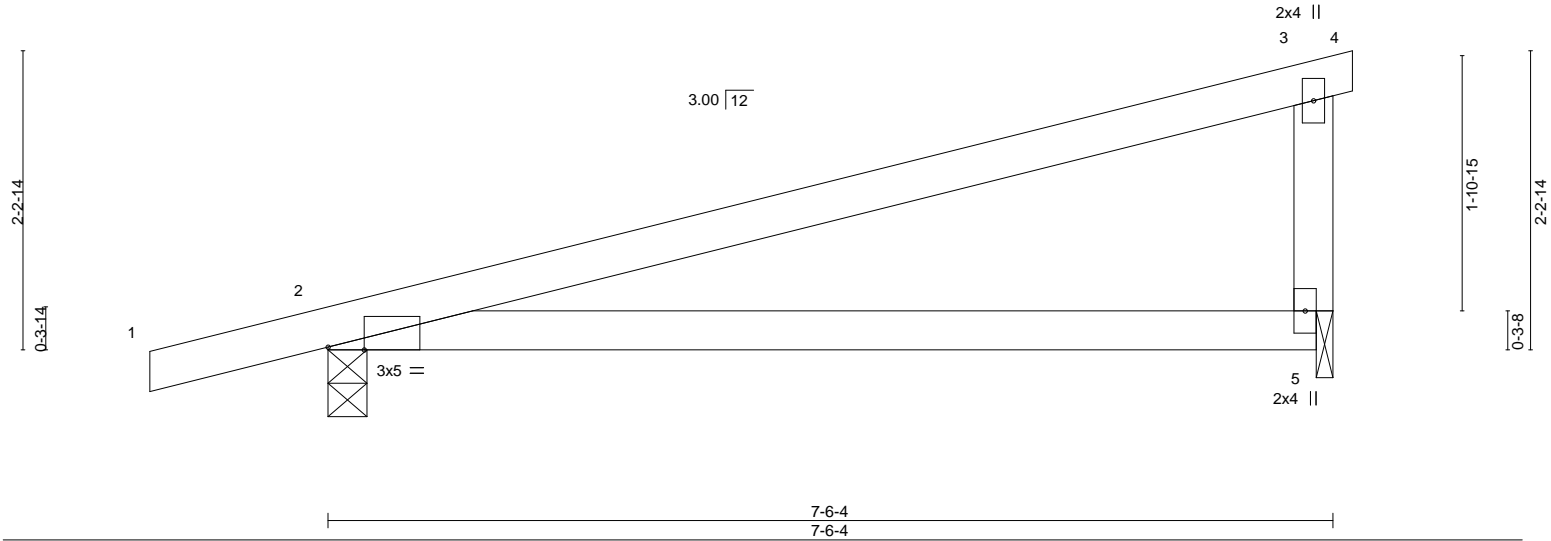


Plate Offsets (X, Y)--	[2:0-3-4, Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.73	Vert(LL) 0.12	5-8	>745	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.58	Vert(CT) -0.27	5-8	>329	180			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	2	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 27 lb	FT = 20%

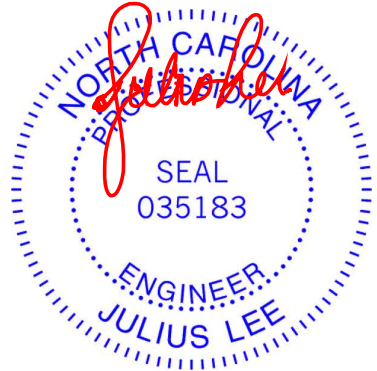
LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied.
WEBS 2x4 SP No.3			

REACTIONS. (size) 2=0-3-8, 5=0-1-8
 Max Horz 2=65(LC 8)
 Max Uplift 2=44(LC 8), 5=17(LC 8)
 Max Grav 2=382(LC 1), 5=294(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-8-0 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss M2	Truss Type MONOPITCH	Qty 5	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214646
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:10 2022 Page 1
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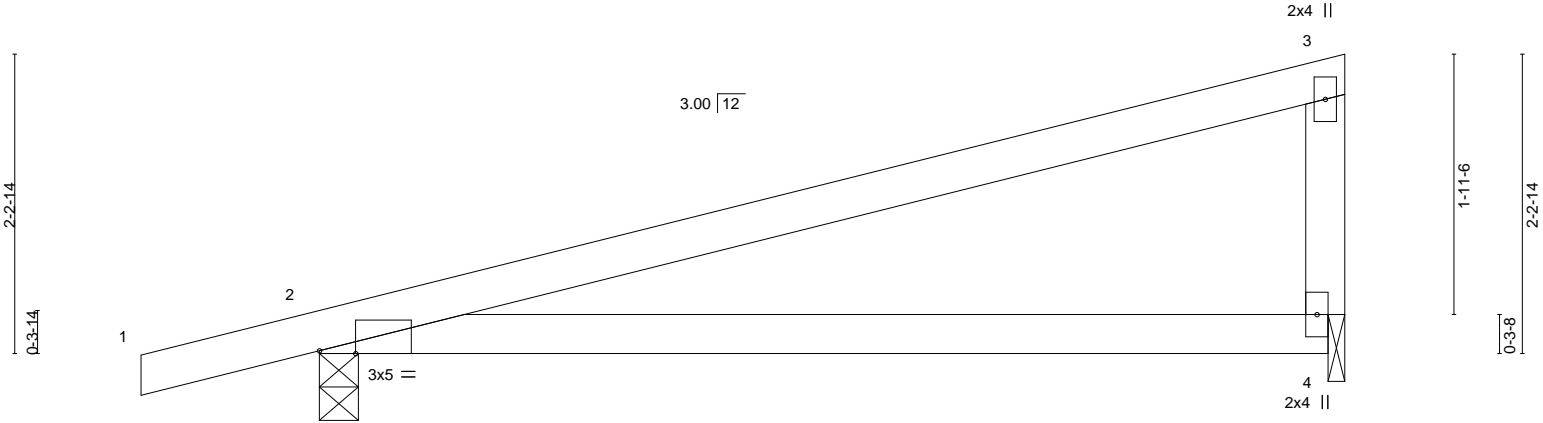


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

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 0.77	Vert(LL)	0.13	4-7	>704	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.29	4-7	>311	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: 28 lb	FT = 20%

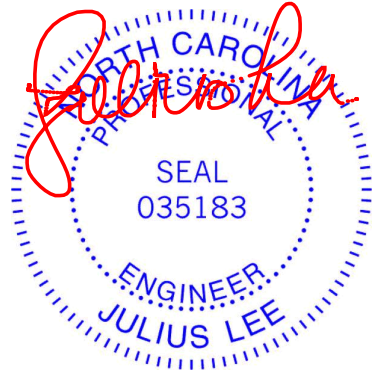
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 4=0-1-8
 Max Horz 2=64(LC 8)
 Max Uplift 2=45(LC 8), 4=14(LC 8)
 Max Grav 2=388(LC 1), 4=294(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-6-4 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) 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) 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 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 22020373-01	Truss M2G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214647
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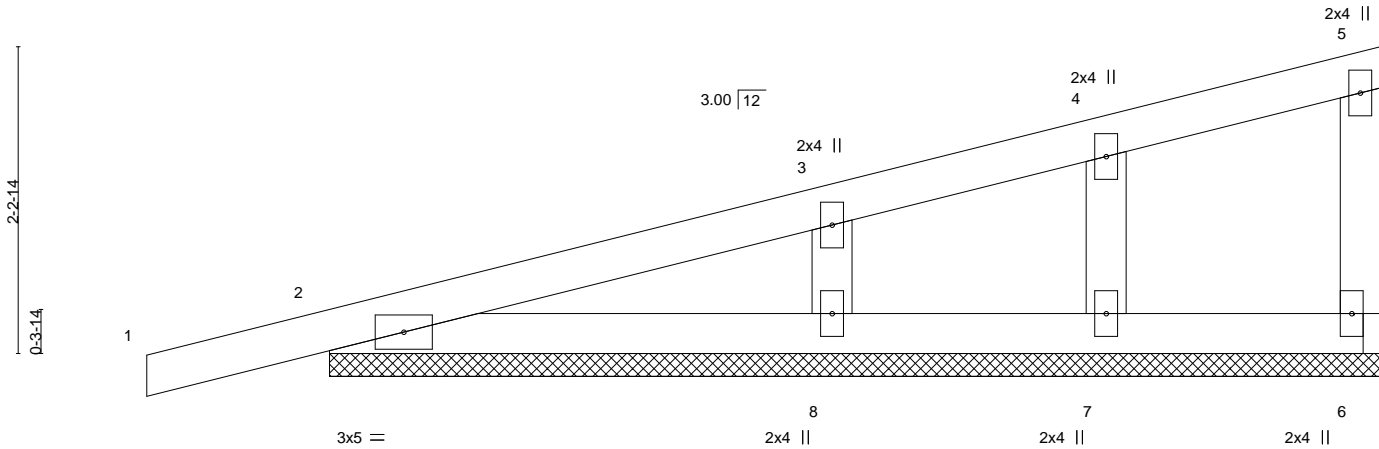
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:13 2022 Page 1

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Scale = 1:16.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 30 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

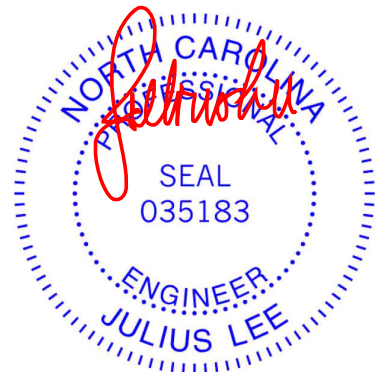
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-8-0.
(lb) - Max Horz 2=62(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=266(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; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 7-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 8) n/a
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 24, 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 22020373-01	Truss J1	Truss Type Jack-Open	Qty 27	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214648
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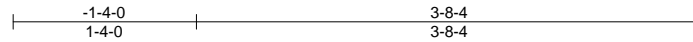
Carter Components (Lexington),

Lexington, NC - 27295,

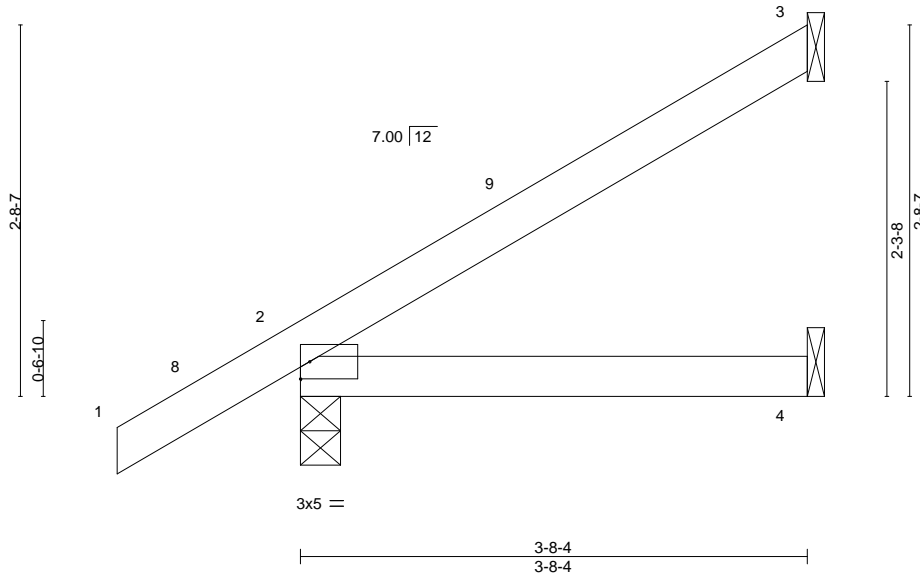
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:05 2022 Page 1

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Job Reference (optional)



Scale = 1:16.8



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 0.17	Vert(LL)	-0.01 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02 4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 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 or 3-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

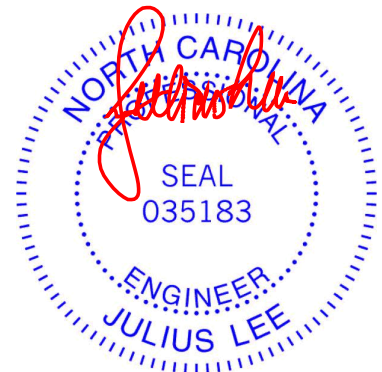
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=81(LC 12)
Max Uplift 3=-28(LC 12), 2=-23(LC 12)
Max Grav 3=91(LC 1), 2=240(LC 1), 4=66(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3.
- 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 24, 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



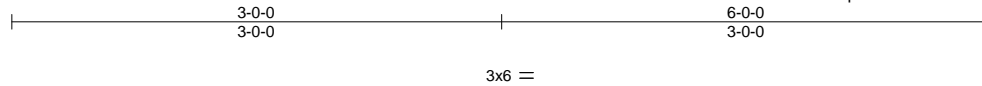
818 Soundside Road
Edenton, NC 27932

Job 22020373-01	Truss V2C	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214649
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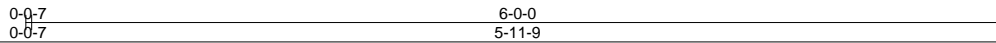
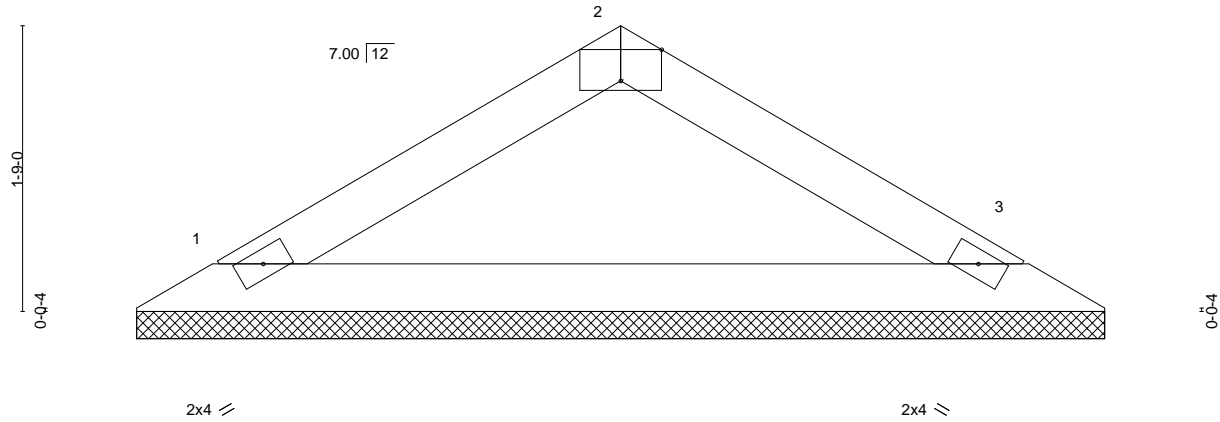
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:24 2022 Page 1

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Scale = 1:14.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 17 lb	FT = 20%

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

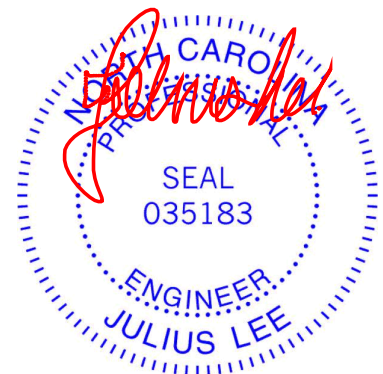
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-11-2, 3=5-11-2
Max Horz 1=24(LC 10)
Max Uplift 1=-1(LC 12), 3=-1(LC 12)
Max Grav 1=197(LC 1), 3=197(LC 1)

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

NOTES-

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



March 24, 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



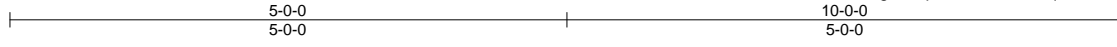
818 Soundside Road
Edenton, NC 27932

Job 22020373-01	Truss V2B	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214650
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Carter Components (Lexington), Lexington, NC - 27295,

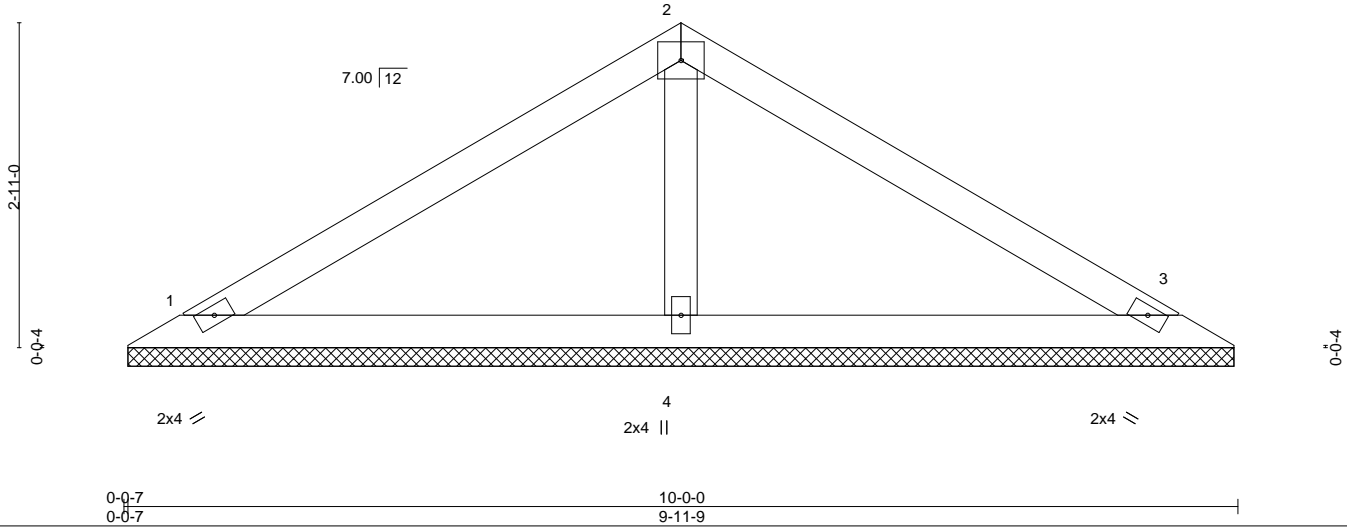
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:23 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-NgsvB1pSC6P657oO7hqodfi2dPnPpswsZqiDjOzYFHC



4x5 =

Scale = 1:20.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2018/TPI2014						Weight: 34 lb	FT = 20%

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

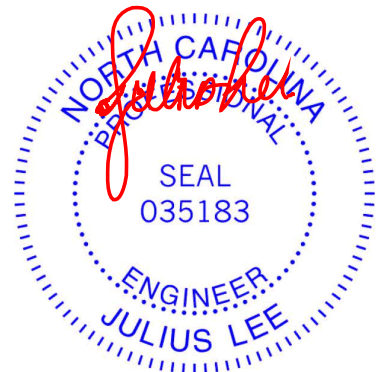
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-11-2, 3=9-11-2, 4=9-11-2
 Max Horz 1=44(LC 10)
 Max Uplift 1=-11(LC 12), 3=-11(LC 12)
 Max Grav 1=169(LC 1), 3=169(LC 1), 4=376(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 9-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 24, 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



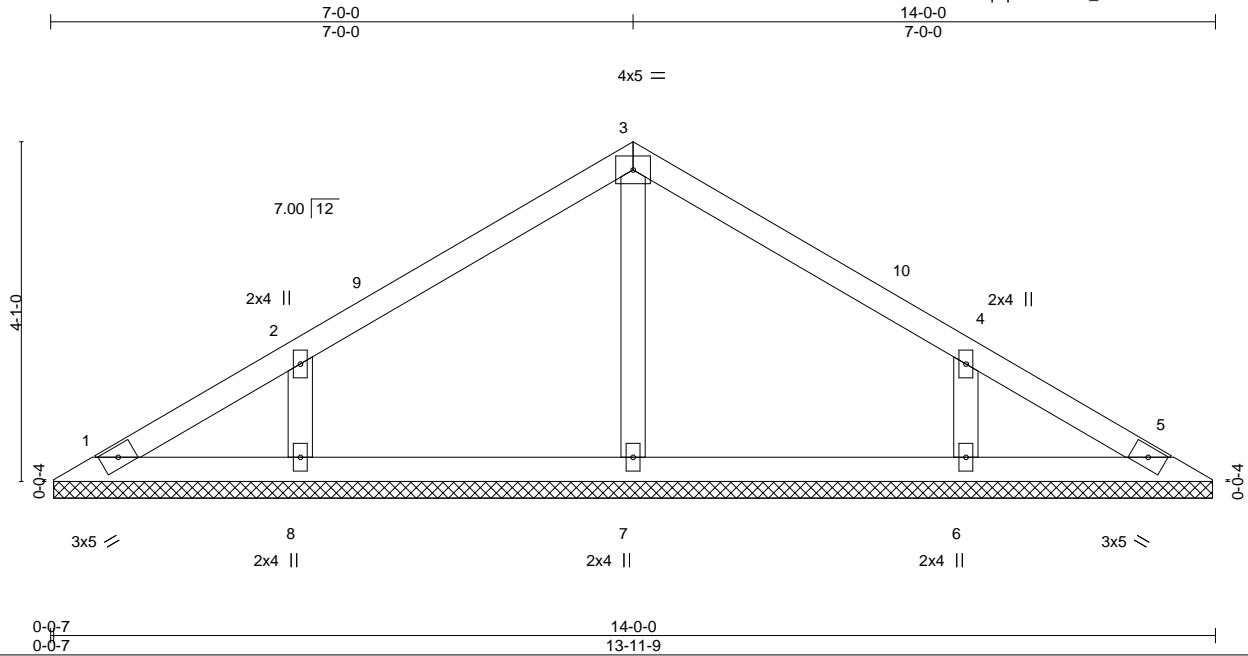
818 Soundside Road
 Edenton, NC 27932

Job 22020373-01	Truss V2A	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214651
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:22 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-vUIXzhoqRpHFTzDBa_JZ4SAvX?TP4PciKBzGxZyFHd



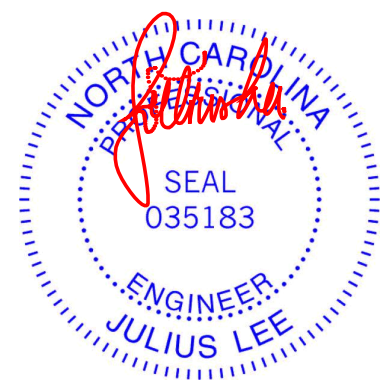
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 52 lb	FT = 20%
	Code IRC2018/TPI2014							

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

REACTIONS. All bearings 13-11-2.
 (lb) - Max Horz 1=64(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 1), 8=311(LC 23), 6=311(LC 24)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 13-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) n/a
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 24, 2022

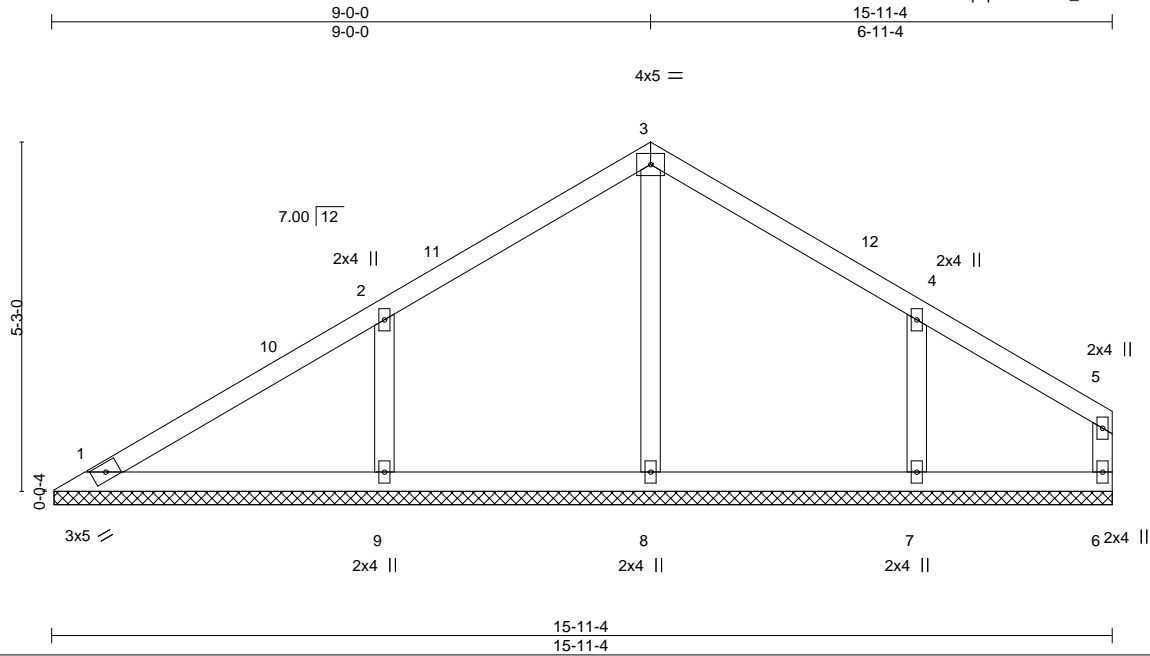
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss V2	Truss Type Valley	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214652
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:22 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-vUIXzhoqRpHFTzDBa_JZ4SAI??Sq4O6iKBzGbxzYFHd



Scale = 1:34.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 65 lb	FT = 20%

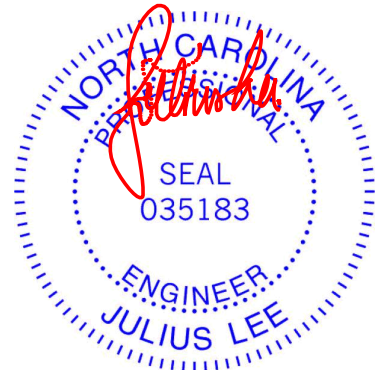
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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 15-10-13.
 (lb) - Max Horz 1=96(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=265(LC 1), 9=406(LC 23), 7=319(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-302/119

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 15-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 7) n/a
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 24, 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 22020373-01	Truss T2GR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214653
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Carter Components (Lexington), Lexington, NC - 27295,

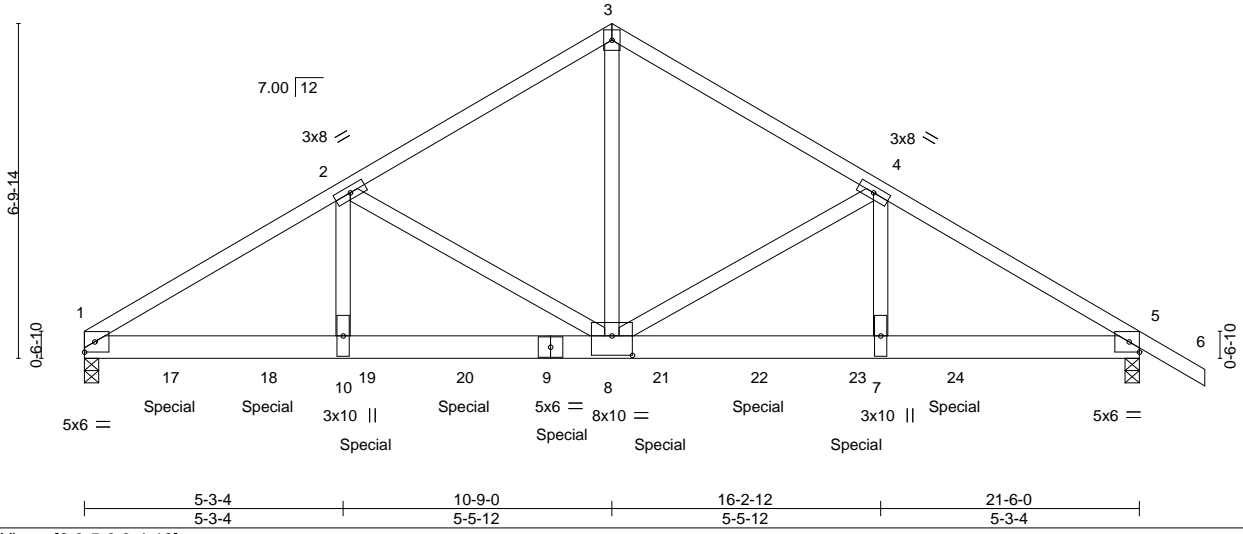
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:20 2022 Page 1

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4x5 ||

Scale = 1:47.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.11 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Vert(CT) -0.21 7-8 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 376 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

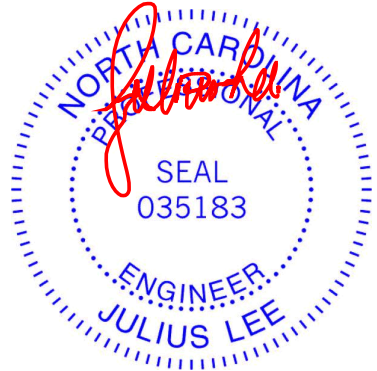
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-117(LC 25)
 Max Uplift 5=-19(LC 8)
 Max Grav 1=7709(LC 2), 5=6336(LC 1)

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-11758/0, 2-3=-7699/0, 3-4=-7678/0, 4-5=-10878/0
 BOT CHORD 1-10=0/10120, 8-10=0/10120, 7-8=0/9318, 5-7=0/9318
 WEBS 3-8=0/7325, 4-8=-3194/135, 4-7=-24/2959, 2-8=-4297/0, 2-10=0/4072

- 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 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 5. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1681 lb down at 1-9-0, 1681 lb down at 3-9-0, 1386 lb down and 28 lb up at 5-9-0, 1342 lb down and 28 lb up at 7-9-0, 1334 lb down and 28 lb up at 9-9-0, 1232 lb down and 28 lb up at 11-9-0, 1232 lb down and 28 lb up at 13-9-0, and 1232 lb down and 28 lb up at 15-9-0, and 1610 lb down and 92 lb up at 17-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



March 24, 2022

LOAD CASE(S) Standard

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 22020373-01	Truss T2GR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214653 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:20 2022 Page 2
ID:R1dAcVhN40z53bONtvnm1Lzltw3-y5AnY?mZvB1XEg4pSZH5?15TYBhVcMhPttUZ63zYFHf

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: 9=-1232(F) 17=-1500(F) 18=-1500(F) 19=-1232(F) 20=-1232(F) 21=-1232(F) 22=-1232(F) 23=-1232(F) 24=-1610(F)

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

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



818 Soundside Road
Edenton, NC 27932

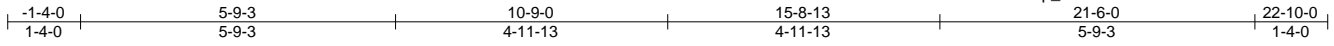
Job 22020373-01	Truss T2	Truss Type Common	Qty 4	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214654
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:18 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-0i208JJOanp_MwQL8Edwc?BUOxZ8Yc7QZ?S2AzYFHh

Job Reference (optional)



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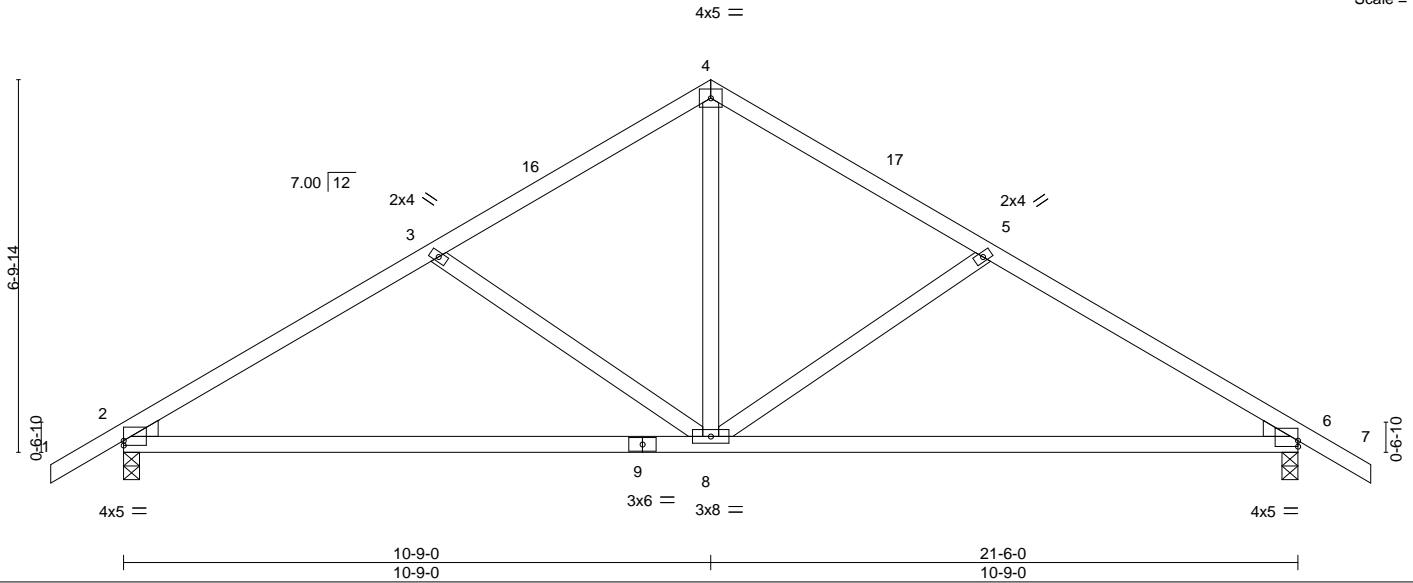


Plate Offsets (X, Y)--	[2:0-0-0,0-1-1], [6:0-0-0,0-1-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.20 8-12 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.40 8-12 >638 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.03 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				Weight: 102 lb	FT = 20%

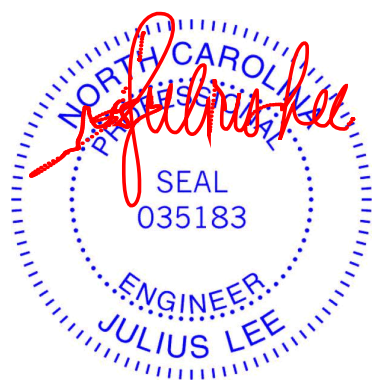
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 6-9: 2x4 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=120(LC 11)
 Max Uplift 2=-40(LC 12), 6=-40(LC 12)
 Max Grav 2=940(LC 1), 6=940(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1252/75, 3-4=-948/67, 4-5=-948/67, 5-6=-1252/75
 BOT CHORD 2-8=0/1013, 6-8=0/1013
 WEBS 4-8=0/626, 5-8=-340/103, 3-8=-341/103

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-9-0, Exterior(2R) 10-9-0 to 13-9-0, Interior(1) 13-9-0 to 22-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) 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.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



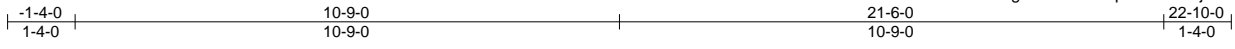
March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss T2G	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214655
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

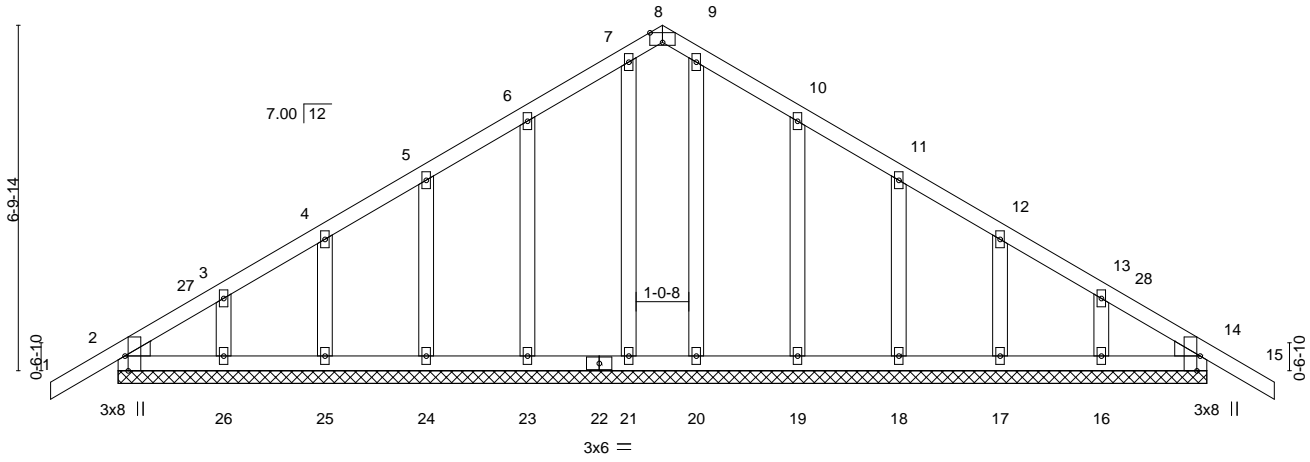
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:19 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-UvcPLfmx8uvgcWVvcusmsSpYP9oS11jGeDK0adzYFHg



3x6 =

Scale = 1:45.5



21-6-0
21-6-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [8:0-3-0,Edge], [14:0-3-8,Edge]

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) -0.01 15 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.01 15 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 14 n/a n/a		
	Code IRC2018/TPI2014			Weight: 128 lb	FT = 20%

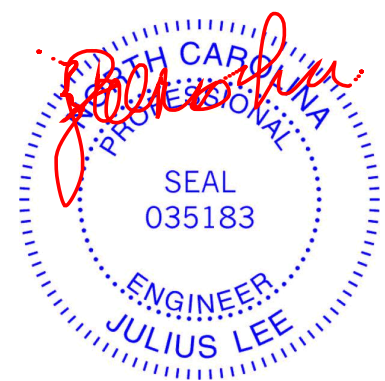
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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 21-6-0.
(lb) - Max Horz 2=120(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 19, 18, 17, 16, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 10-9-0, Corner(3R) 10-9-0 to 13-9-0, Exterior(2N) 13-9-0 to 22-10-0 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - n/a
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 24, 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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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214656
22020373-01	H1GRA	HALF HIP GIRDER	1	1	Job Reference (optional)

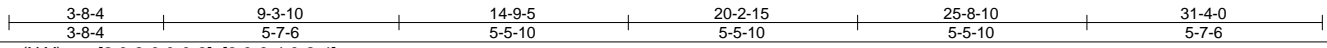
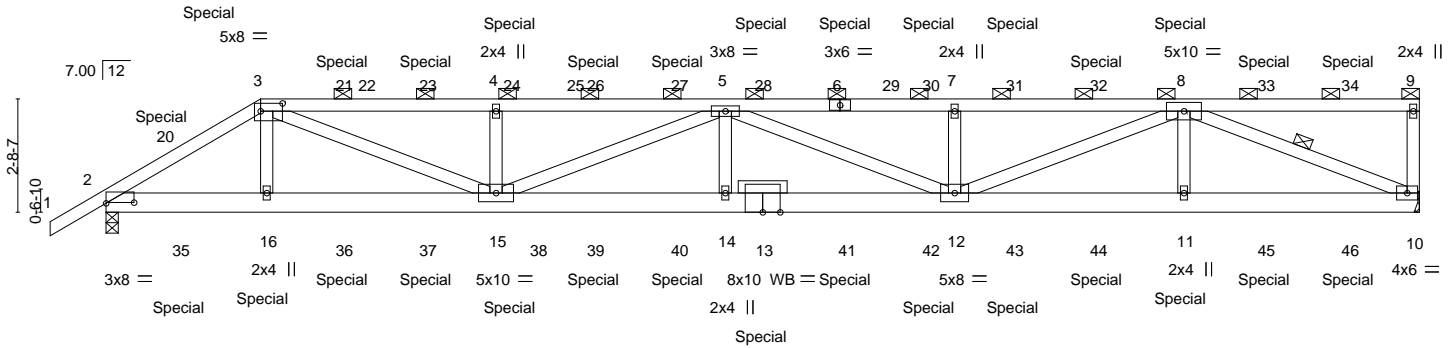
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:57 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-8gH4k8V8K78oz7pOcEMiZBeXKwsBjxB1boPspuzYFI0



Scale = 1:55.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.29	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.60	12-14	>628		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 184 lb	FT = 20%

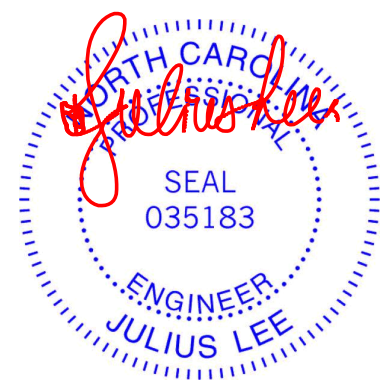
LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
3-15,5-15,5-12,8-12,8-10: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-3 max.): 3-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=82(LC 27)
Max Uplift 10=-72(LC 5), 2=-104(LC 8)
Max Grav 10=1630(LC 1), 2=1790(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2822/108, 3-4=-4660/192, 4-5=-4660/192, 5-7=-5033/196, 7-8=-5033/196
BOT CHORD 2-16=-109/2387, 15-16=-105/2398, 14-15=-222/5568, 12-14=-222/5568, 11-12=-138/3269,
10-11=-138/3269
WEBS 3-16=0/268, 3-15=-94/2461, 4-15=-440/130, 5-15=-994/44, 5-14=0/316, 5-12=-581/35,
7-12=-396/113, 8-12=-76/1918, 8-11=0/313, 8-10=-3478/142

- 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=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 10.
 - 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.



March 24, 2022

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss H1GRA	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214656 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:57 2022 Page 2
ID:R1dAcVhN40z53bONtvnm1Lzltw3-8gH4k8V8K78oz7pOcEMiZBeXKwsBjxB1boPspuzYFI0

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 40 lb up at 1-9-0, 64 lb down and 52 lb up at 3-8-4, 68 lb down and 49 lb up at 5-7-12, 68 lb down and 49 lb up at 7-7-12, 68 lb down and 49 lb up at 9-7-12, 64 lb down and 49 lb up at 11-7-12, 64 lb down and 49 lb up at 13-7-12, 64 lb down and 49 lb up at 15-7-12, 64 lb down and 49 lb up at 17-7-12, 68 lb down and 49 lb up at 19-7-12, 68 lb down and 49 lb up at 21-7-12, 68 lb down and 49 lb up at 23-7-12, 68 lb down and 49 lb up at 25-7-12, and 68 lb down and 49 lb up at 27-7-12, and 68 lb down and 49 lb up at 29-7-12 on top chord, and 140 lb down and 22 lb up at 1-9-0, 26 lb down at 3-9-0, 26 lb down at 5-7-12, 26 lb down at 7-7-12, 26 lb down at 9-7-12, 26 lb down at 11-7-12, 26 lb down at 13-7-12, 26 lb down at 15-7-12, 26 lb down at 17-7-12, 26 lb down at 19-7-12, 26 lb down at 21-7-12, 26 lb down at 23-7-12, 26 lb down at 25-7-12, and 26 lb down at 27-7-12, and 26 lb down at 29-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-9=-60, 10-17=-20

Concentrated Loads (lb)

Vert: 3=-31(F) 6=-31(F) 13=-20(F) 16=-20(F) 11=-20(F) 8=-31(F) 21=-31(F) 23=-31(F) 24=-31(F) 26=-31(F) 27=-31(F) 28=-31(F) 30=-31(F) 31=-31(F) 32=-31(F) 33=-31(F) 34=-31(F) 35=-140(F) 36=-20(F) 37=-20(F) 38=-20(F) 39=-20(F) 40=-20(F) 41=-20(F) 42=-20(F) 43=-20(F) 44=-20(F) 45=-20(F) 46=-20(F)

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

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



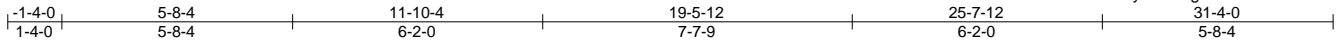
818 Soundside Road
Edenton, NC 27932

Job 22020373-01	Truss H1SD	Truss Type Hip	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214657
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:02 2022 Page 1

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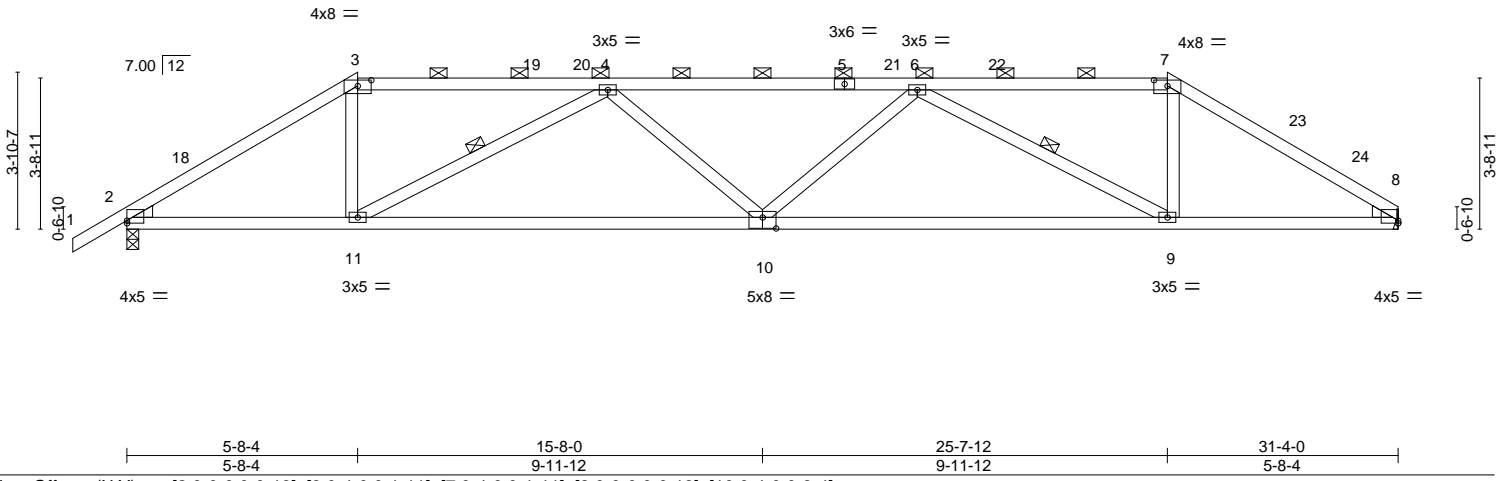


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-4-0,0-1-11], [7:0-4-0,0-1-11], [8:0-0-0,0-0-13], [10:0-4-0,0-3-4]
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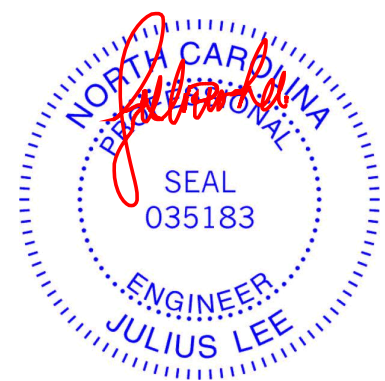
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.23	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.54	10-11	>697		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.11	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 145 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins (2-2-0 max.): 3-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 4-11, 6-9
Left: 2x4 SP No.3 , Right: 2x4 SP No.2	

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=65(LC 11)
 Max Uplift 8=8(LC 12), 2=43(LC 12)
 Max Grav 8=1252(LC 1), 2=1335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2073/14, 3-4=-1686/39, 4-6=-2855/13, 6-7=-1698/45, 7-8=-2085/20
 BOT CHORD 2-11=0/1714, 10-11=-7/2730, 9-10=-9/2734, 8-9=0/1726
 WEBS 3-11=0/721, 4-11=-1246/54, 4-10=0/328, 6-10=0/327, 6-9=-1241/49, 7-9=0/720

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-8-4, Exterior(2R) 5-8-4 to 9-11-3 , Interior(1) 9-11-3 to 25-7-12, Exterior(2R) 25-7-12 to 29-10-11, Interior(1) 29-10-11 to 31-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 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 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss H1SC	Truss Type Hip	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214658
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:01 2022 Page 1
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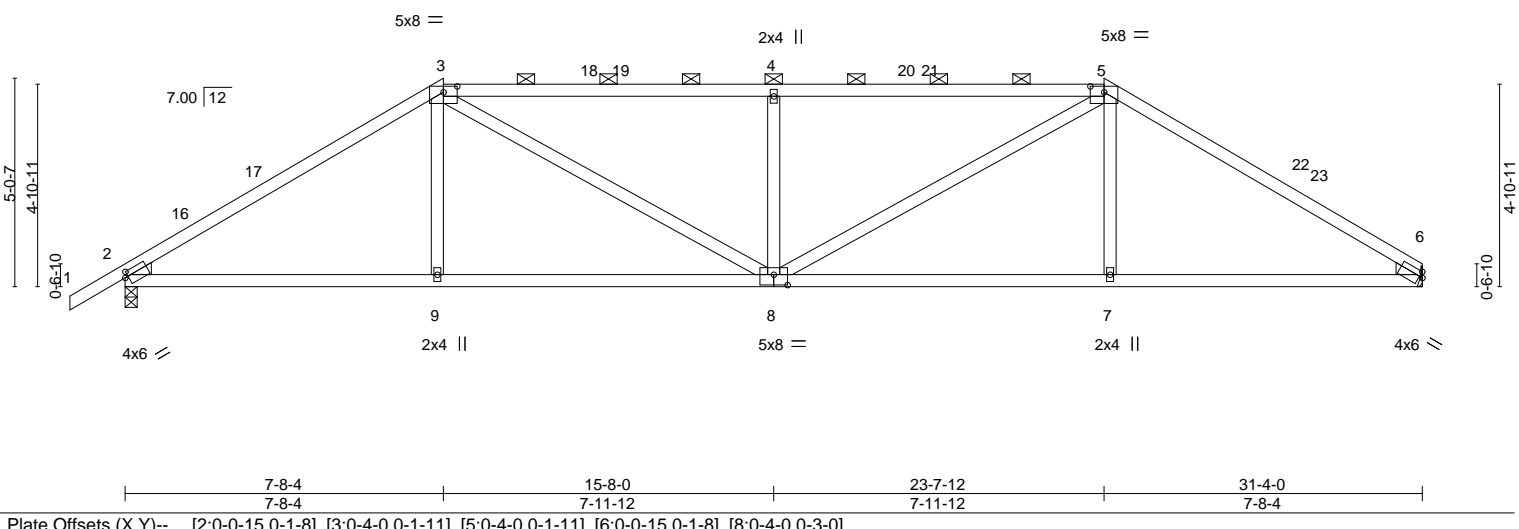


Plate Offsets (X,Y)-- [2:0-0-15,0-1-8], [3:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-0-15,0-1-8], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.12 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Vert(CT) -0.28 8-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.08 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 147 lb	FT = 20%

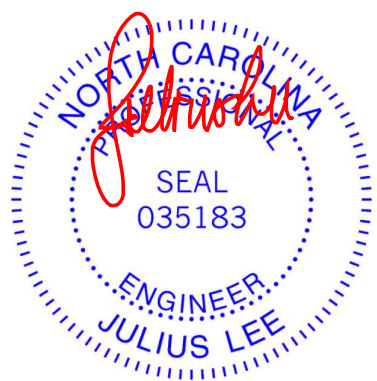
LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 3-5: 2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 6=Mechanical, 2=0-3-8
 Max Horz 2=85(LC 11)
 Max Uplift 6=8(LC 12), 2=43(LC 12)
 Max Grav 6=1252(LC 1), 2=1335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1989/37, 3-4=-2231/68, 4-5=-2231/68, 5-6=-1996/41
 BOT CHORD 2-9=0/1621, 8-9=0/1616, 7-8=0/1624, 6-7=0/1629
 WEBS 3-9=0/310, 3-8=-2/811, 4-8=-559/102, 5-8=0/807, 5-7=0/312

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-8-4, Exterior(2R) 7-8-4 to 11-11-3, Interior(1) 11-11-3 to 23-7-12, Exterior(2R) 23-7-12 to 27-10-11, Interior(1) 27-10-11 to 31-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 6.
 - 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 24, 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 22020373-01	Truss H1SB	Truss Type Hip	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214659
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:00 2022 Page 1
 ID:R1dAcVhN40z53bONtvm1Lzltw3-YFzDM9X0d2WNqbYzHMwPBpG3C7nKwOkTHleVPDzYFHz



Scale = 1:55.7

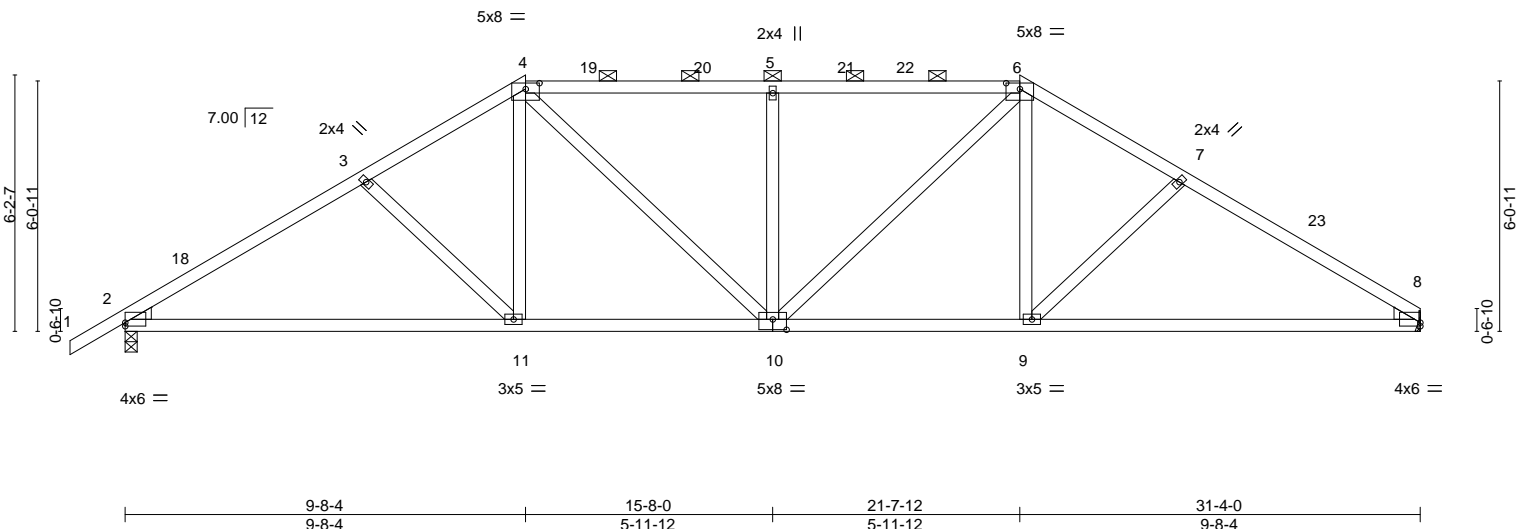


Plate Offsets (X,Y)--	[2:Edge,0-1-1], [4:0-4-0,0-1-11], [6:0-4-0,0-1-11], [8:0-0-0,0-1-1], [10:0-4-0,0-3-0]
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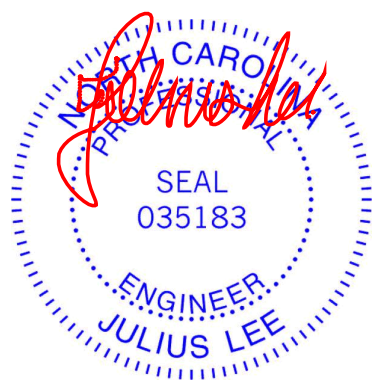
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.16	9-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.34	9-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 165 lb	FT = 20%

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

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=105(LC 11)
 Max Uplift 8=8(LC 12), 2=43(LC 12)
 Max Grav 8=1252(LC 1), 2=1335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1980/60, 3-4=-1751/60, 4-5=-1742/86, 5-6=-1742/86, 6-7=-1757/64, 7-8=-1990/65
 BOT CHORD 2-11=0/1627, 10-11=0/1468, 9-10=0/1472, 8-9=0/1638
 WEBS 4-11=0/390, 4-10=-22/465, 5-10=-426/83, 6-10=-19/462, 6-9=0/393

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-8-4, Exterior(2R) 9-8-4 to 13-11-3, Interior(1) 13-11-3 to 21-7-12, Exterior(2R) 21-7-12 to 25-7-6, Interior(1) 25-7-6 to 31-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 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 24, 2022

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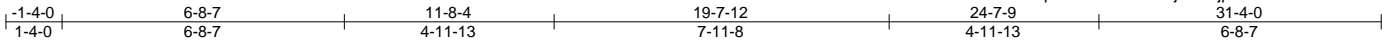
Job 22020373-01	Truss H1SA	Truss Type Hip	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214660
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:59 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-42Pr8pW0skOWCRzmjFPfAfcjpYkRaBxxK26uzunzYFI_

Job Reference (optional)



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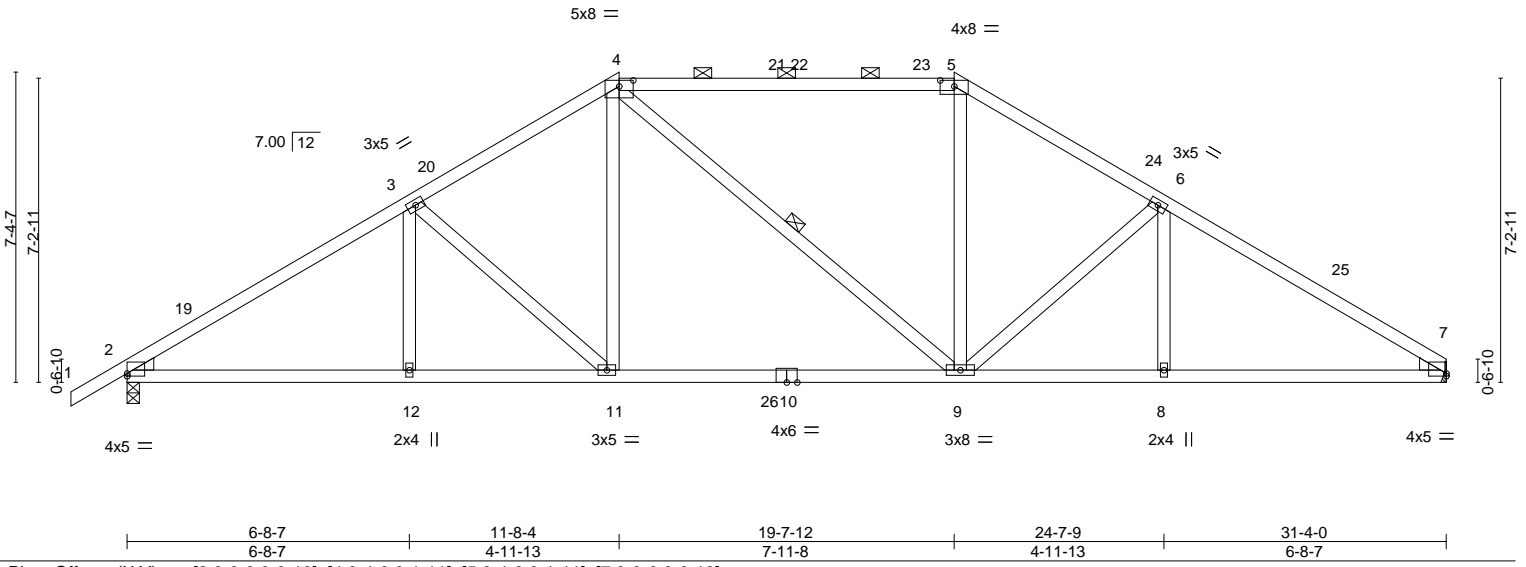


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [7:0-0-0,0-0-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.20	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.38	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.08	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 168 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-9: 2x4 SP No.2

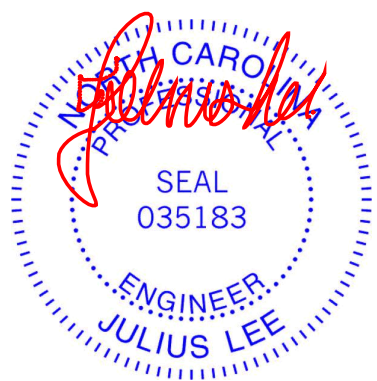
BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-2-6 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-9

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=125(LC 11)
Max Uplift 7=8(LC 12), 2=-43(LC 12)
Max Grav 7=1395(LC 18), 2=1477(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2183/43, 3-4=-1811/81, 4-5=-1511/93, 5-6=-1797/83, 6-7=-2179/48
BOT CHORD 2-12=0/1879, 11-12=0/1879, 9-11=0/1564, 8-9=0/1791, 7-8=0/1791
WEBS 3-11=-399/58, 4-11=0/564, 5-9=0/515, 6-9=-414/65

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-8-4, Exterior(2R) 11-8-4 to 15-11-3, Interior(1) 15-11-3 to 19-7-12, Exterior(2R) 19-7-12 to 23-10-11, Interior(1) 23-10-11 to 31-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7.
 - 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.
 - 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 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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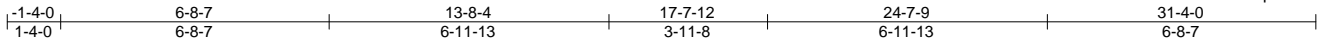
Job 22020373-01	Truss H1S	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214661
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:58 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-csrTxUVm5RGfbHOaAxtx6OainK6XSNoApS9PLKzYfI?

Job Reference (optional)



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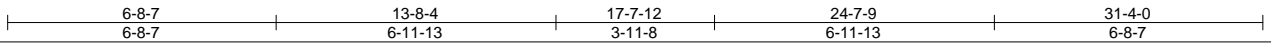
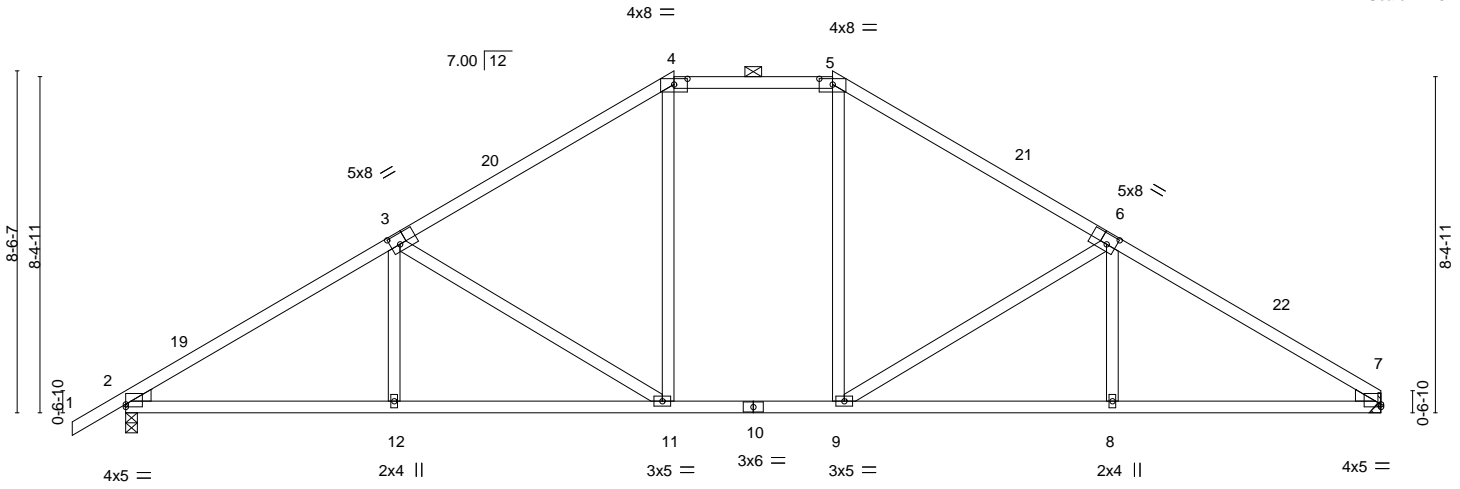


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-2-12,0-3-0], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-2-12,0-3-0], [7:0-0-0,0-0-13]
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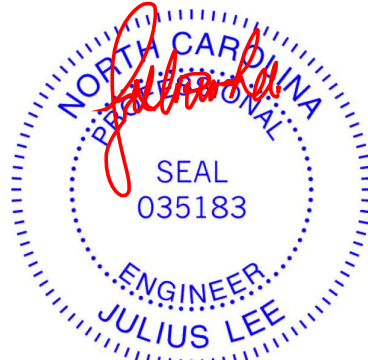
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.29	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.41	11-12	>923		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.09	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 162 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-10-15 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 7=Mechanical
 Max Horz 2=144(LC 11)
 Max Uplift 2=-43(LC 12), 7=-8(LC 12)
 Max Grav 2=1475(LC 17), 7=1402(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2217/40, 3-4=-1651/93, 4-5=-1344/107, 5-6=-1651/93, 6-7=-2227/45
 BOT CHORD 2-12=0/1926, 11-12=0/1914, 9-11=0/1388, 8-9=0/1823, 7-8=0/1836
 WEBS 3-12=0/268, 3-11=-615/72, 4-11=0/518, 5-9=0/521, 6-9=-626/78, 6-8=0/270

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 13-8-4, Exterior(2E) 13-8-4 to 17-7-12, Exterior(2R) 17-7-12 to 21-10-11, Interior(1) 21-10-11 to 31-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7.
 - 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 24, 2022

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

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

Job 22020373-01	Truss T1A	Truss Type COMMON	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214662
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:15 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-c7NuVlJR5fPE7vBrf0hwIzNb7AtZxAPgibmoRrzYFHk

Job Reference (optional)

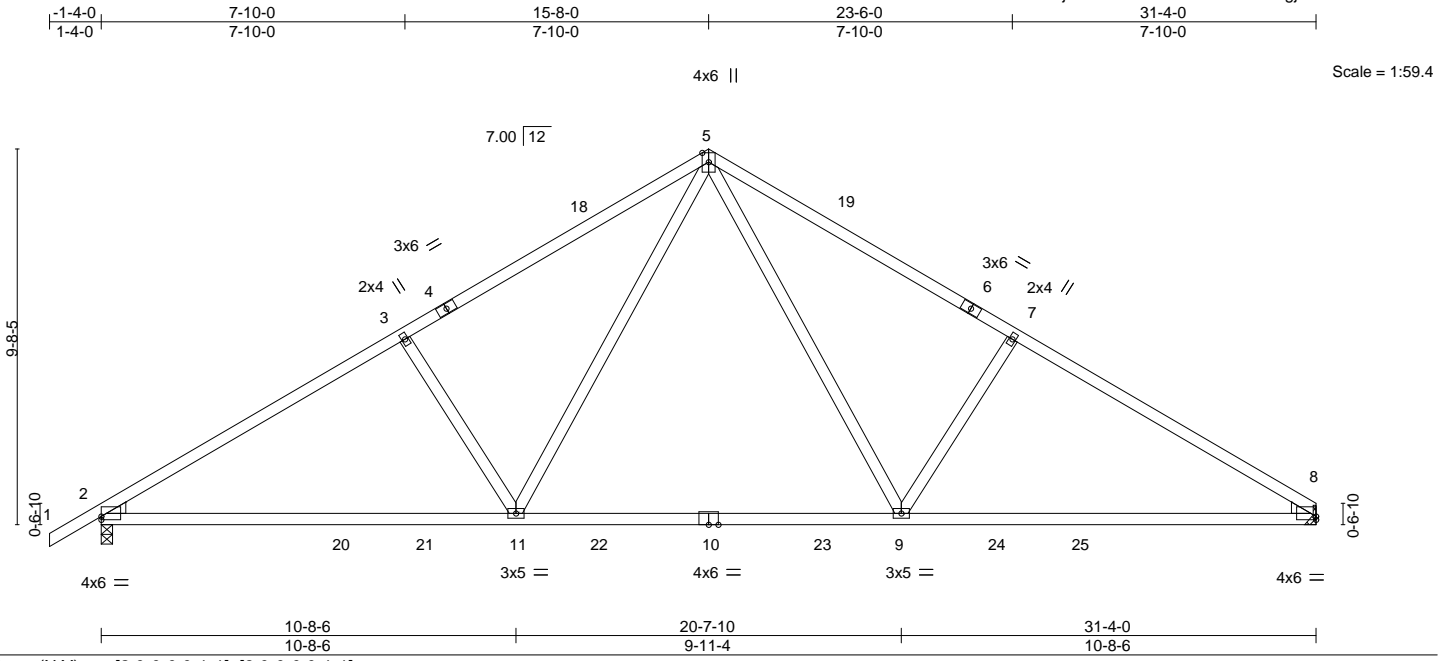


Plate Offsets (X, Y)--	[2:0-0-0,0-1-1], [8:0-0-0,0-1-1]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.26 9-11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.46 9-17 >816 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.06 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				Weight: 151 lb	FT = 20%

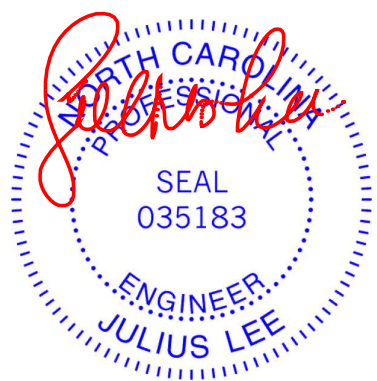
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
7-9,3-11: 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=165(LC 11)
Max Uplift 2=-43(LC 12), 8=-8(LC 12)
Max Grav 2=1515(LC 17), 8=1441(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2181/84, 3-5=-1978/129, 5-7=-1984/133, 7-8=-2187/89
BOT CHORD 2-11=-4/1914, 9-11=0/1258, 8-9=-1/1804
WEBS 5-9=-5/920, 7-9=-452/149, 5-11=-2/911, 3-11=-446/148

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 31-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
 - 7) 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.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 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 22020373-01	Truss T1SA	Truss Type COMMON	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214663
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:17 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-YWVewzkhGfyNCLEnRjONOTv7_epP2?zBvFvVkzYFHi

Job Reference (optional)



4x6 ||

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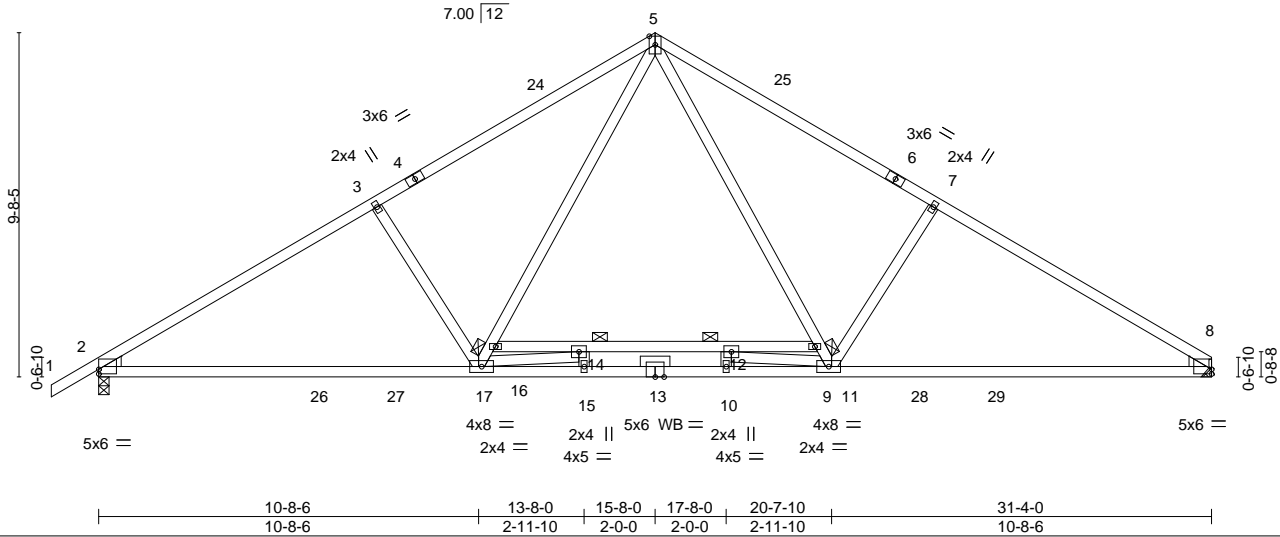


Plate Offsets (X,Y)--	[2:0-0,0,0-1-9], [8:0-0,0,0-1-9]
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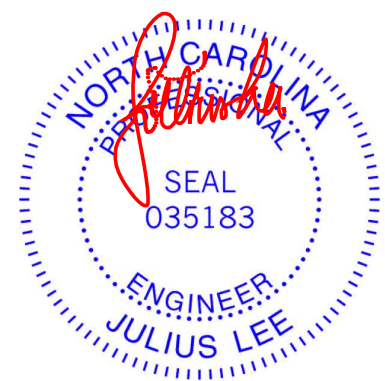
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.24 9-23 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.44 9-23 >862 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP 2400F 2.0E *Except* 11-16: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 4-7-0 oc bracing: 11-16
WEBS 2x4 SP No.3 *Except* 5-9,5-17: 2x4 SP No.2	
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS.	(size)
	2=0-3-8, 8=Mechanical
	Max Horz 2=165(LC 11)
	Max Grav 2=1810(LC 17), 8=1736(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2731/0, 3-5=-2523/0, 5-7=-2529/0, 7-8=-2737/0
BOT CHORD	2-17=0/2384, 15-17=0/2802, 10-15=0/2802, 9-10=0/2802, 8-9=0/2274, 12-14=-1458/0
WEBS	5-11=0/1228, 9-11=0/1100, 7-9=-437/160, 16-17=0/1092, 5-16=0/1219, 3-17=-432/160, 14-17=-1335/0, 9-12=-1376/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 31-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 350.0lb AC unit load placed on the bottom chord, 15-8-0 from left end, supported at two points, 4-0-0 apart.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 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.



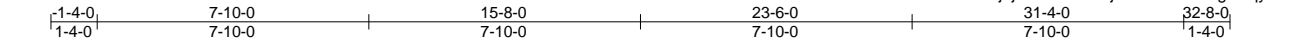
March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss T1S	Truss Type COMMON	Qty 4	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214664
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:16 2022 Page 1
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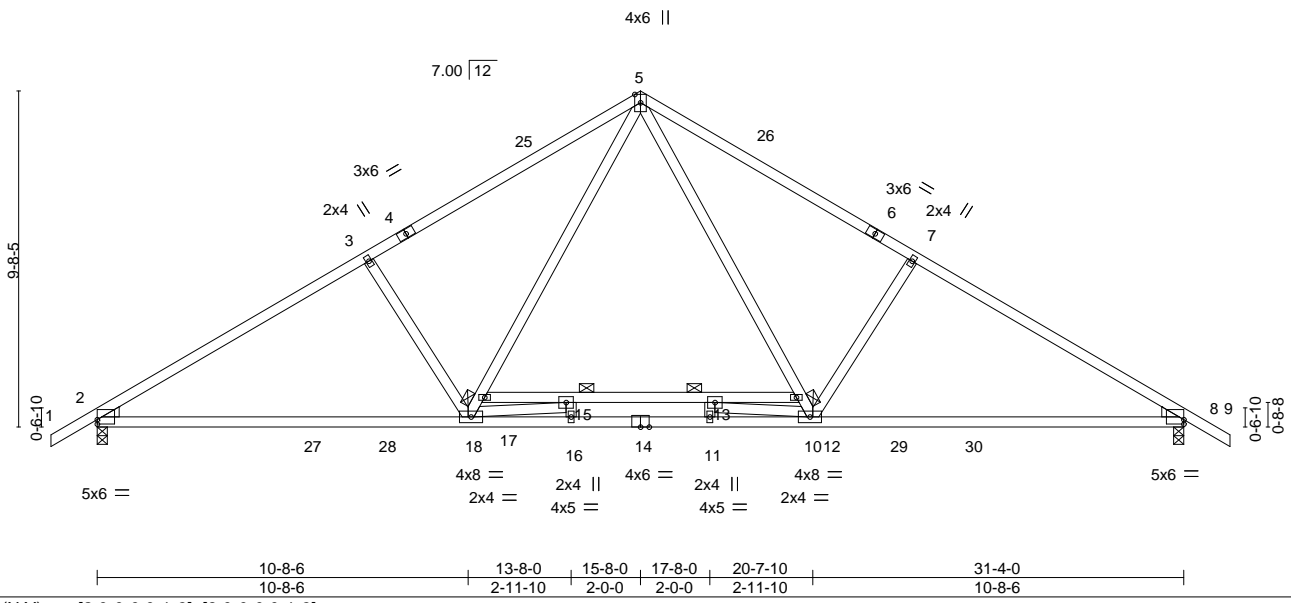


Plate Offsets (X,Y)--	[2:0-0-0,0-1-9], [8:0-0-0,0-1-9]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.29 10-24 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.52 10-24 >728 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.10 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 176 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 12-17: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 4-6-0 oc bracing: 12-17
WEBS 2x4 SP No.3 *Except* 5-10,5-18: 2x4 SP No.2	

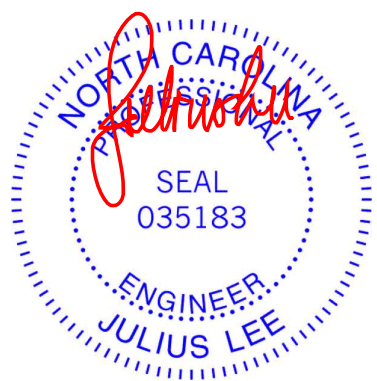
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-169(LC 10)
Max Grav 2=1809(LC 17), 8=1809(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2728/0, 3-5=-2521/0, 5-7=-2521/0, 7-8=-2728/0
BOT CHORD 2-18=0/2389, 16-18=0/2803, 11-16=0/2803, 10-11=0/2803, 8-10=0/2263, 13-15=-1455/0
WEBS 5-12=0/1219, 10-12=0/1092, 7-10=-432/160, 17-18=0/1092, 5-17=0/1219, 3-18=-432/160,
15-18=-1340/0, 10-13=-1383/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 350.0lb AC unit load placed on the bottom chord, 15-8-0 from left end, supported at two points, 4-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 2022

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

Job 22020373-01	Truss T1	Truss Type Common	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214665
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:12:14 2022 Page 1
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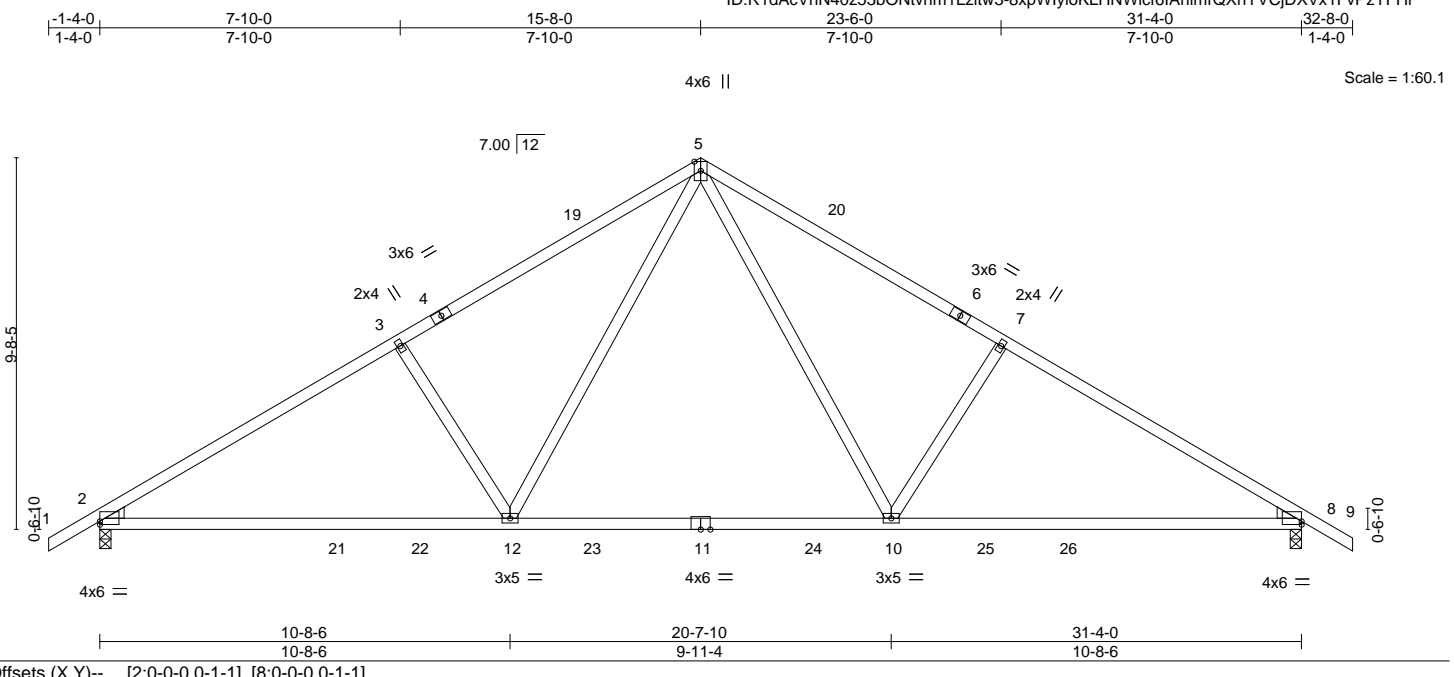


Plate Offsets (X, Y)-- [2:0-0-0,0-1-1], [8:0-0-0,0-1-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.89	Vert(LL) -0.27 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.45 10-18 >828 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 154 lb	FT = 20%

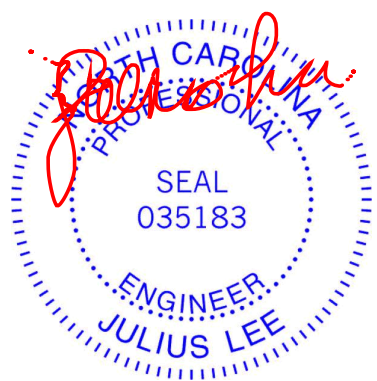
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 7-10,3-12: 2x4 SP No.3
WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-169(LC 10)
 Max Uplift 2=-42(LC 12), 8=-42(LC 12)
 Max Grav 2=1514(LC 17), 8=1514(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2179/84, 3-5=-1976/128, 5-7=-1976/128, 7-8=-2179/84
 BOT CHORD 2-12=0/1919, 10-12=0/1263, 8-10=0/1793
 WEBS 5-10=-3/912, 7-10=-446/148, 5-12=-3/912, 3-12=-446/148

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 24, 2022

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 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

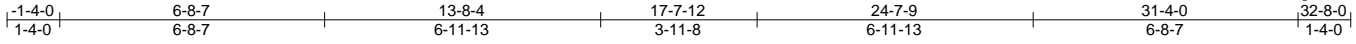
Job 22020373-01	Truss H1	Truss Type Hip	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214666
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:44 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-0A?A?hK_O7Vev8JuL?dfYRbJhKIB2W6bGmgs8zYFID

Job Reference (optional)



Scale = 1:58.3

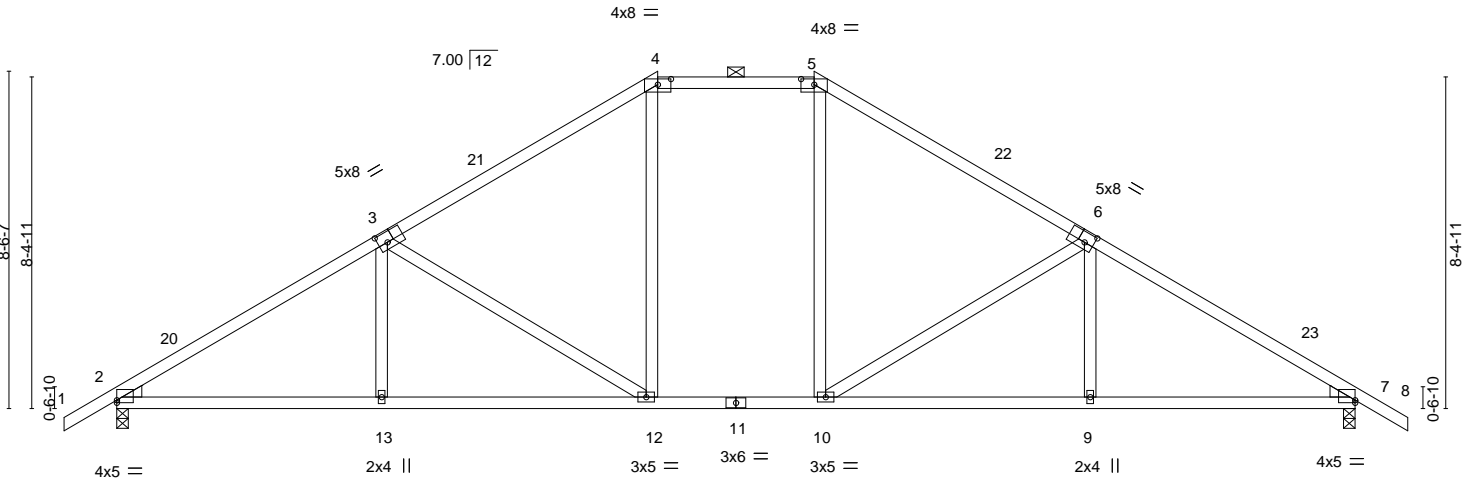


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-2-12,0-3-0], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-2-12,0-3-0], [7:0-0-0,0-0-13]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.29 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.41 12-13	>922	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 164 lb	FT = 20%

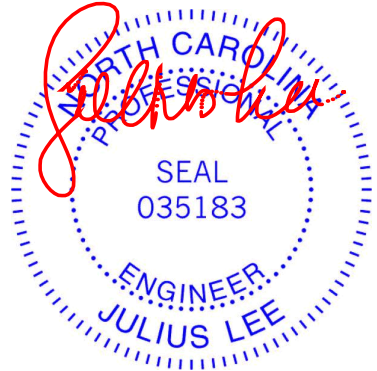
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=148(LC 11)
Max Uplift 2=-42(LC 12), 7=-42(LC 12)
Max Grav 2=1474(LC 17), 7=1474(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2215/39, 3-4=-1648/91, 4-5=-1342/106, 5-6=-1648/91, 6-7=-2215/39
BOT CHORD 2-13=0/1932, 12-13=0/1920, 10-12=0/1393, 9-10=0/1809, 7-9=0/1821
WEBS 3-13=0/268, 3-12=-616/72, 4-12=0/517, 5-10=0/517, 6-10=-616/72, 6-9=0/268

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 13-8-4, Exterior(2E) 13-8-4 to 17-7-12, Exterior(2R) 17-7-12 to 21-10-11, Interior(1) 21-10-11 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 24, 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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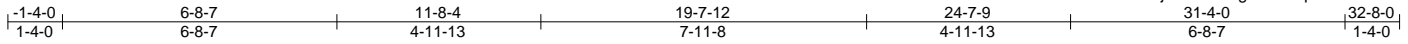
Job 22020373-01	Truss H1A	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214667
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Carter Components (Lexington), Lexington, NC - 27295,

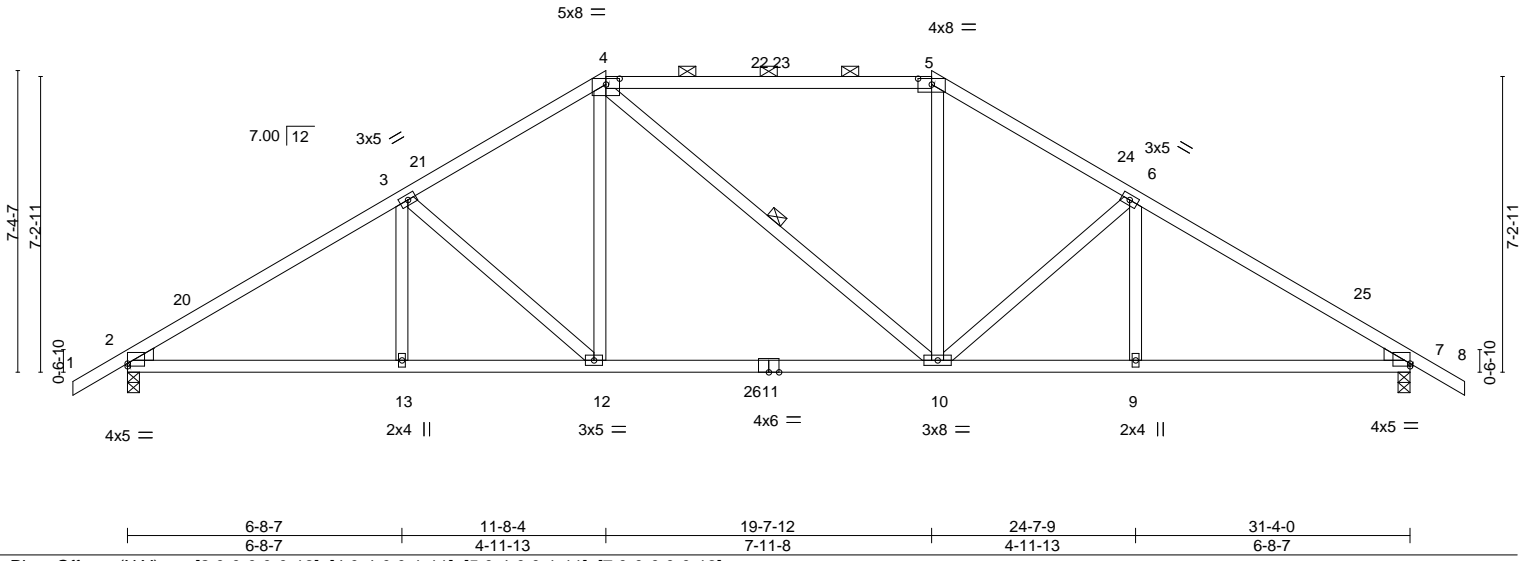
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:45 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-UMZYC1Lc9RdVXH4v9u4f8Q64gJwcbGqwVDObzYFIC

Job Reference (optional)



Scale = 1:56.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.20	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.38	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.08	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						

Weight: 170 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-10: 2x4 SP No.2

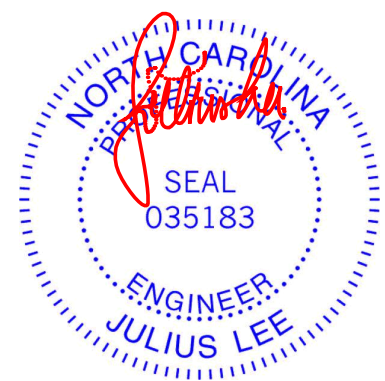
BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-2-10 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-10

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-128(LC 10)
Max Uplift 2=-42(LC 12), 7=-42(LC 12)
Max Grav 2=1476(LC 17), 7=1468(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2181/41, 3-4=-1809/80, 4-5=-1507/91, 5-6=-1791/80, 6-7=-2167/41
BOT CHORD 2-13=0/1884, 12-13=0/1884, 10-12=0/1570, 9-10=0/1776, 7-9=0/1776
WEBS 3-12=-399/59, 4-12=0/564, 5-10=0/512, 6-10=-403/59

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-8-4, Exterior(2R) 11-8-4 to 15-11-3, Interior(1) 15-11-3 to 19-7-12, Exterior(2R) 19-7-12 to 23-10-11, Interior(1) 23-10-11 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 24, 2022

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

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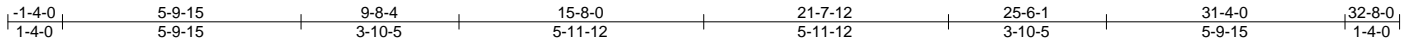
Job 22020373-01	Truss H1B	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214668
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Carter Components (Lexington), Lexington, NC - 27295,

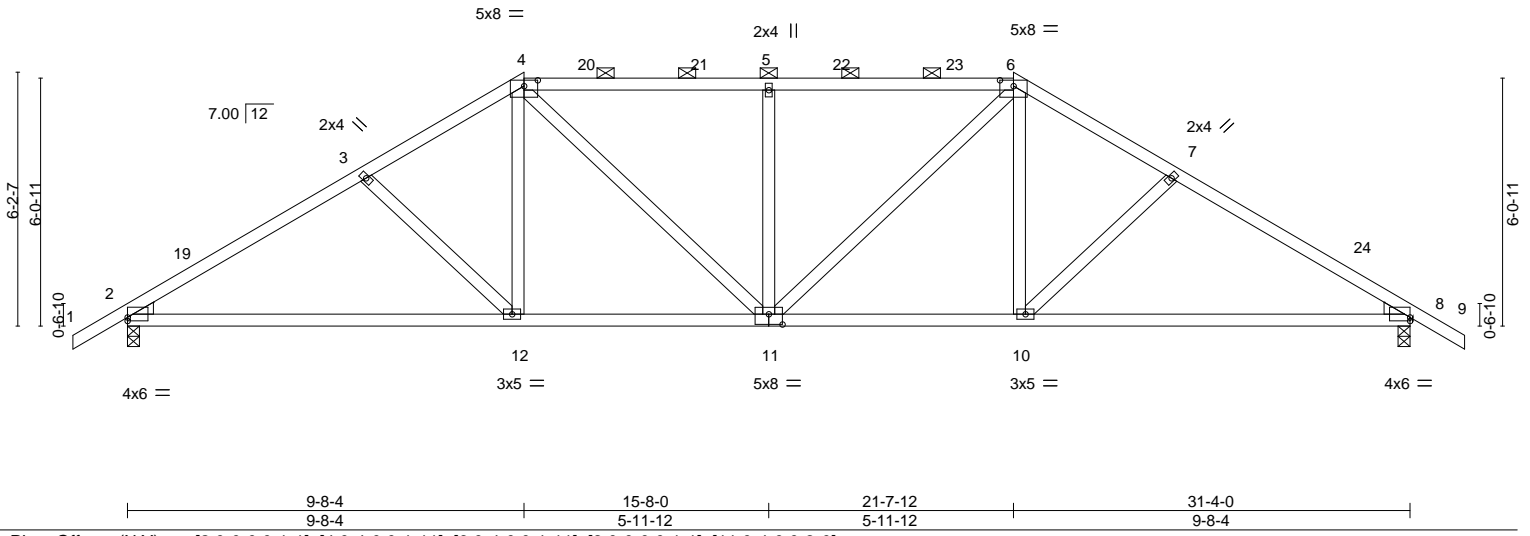
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:48 2022 Page 1

ID:R1dAcVhN40z53bONtvmn1Lzltw3-uxEhr3OVSM?4OldfaribiHm0ElHw7zmiWuku?wzYF19

Job Reference (optional)



Scale = 1:56.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.16 12-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.34 12-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 167 lb	FT = 20%

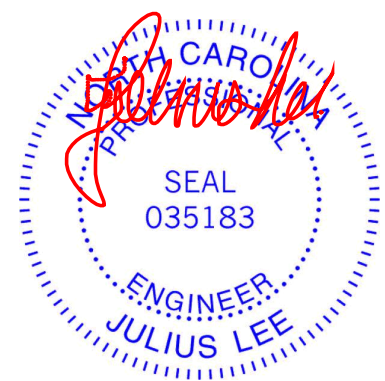
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-108(LC 10)
Max Uplift 2=-42(LC 12), 8=-42(LC 12)
Max Grav 2=1333(LC 1), 8=1333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1977/59, 3-4=-1748/59, 4-5=-1738/84, 5-6=-1738/84, 6-7=-1748/59, 7-8=-1977/59
BOT CHORD 2-12=0/1624, 11-12=0/1465, 10-11=0/1465, 8-10=0/1624
WEBS 4-12=0/390, 4-11=-20/463, 5-11=-426/83, 6-11=-20/463, 6-10=0/390

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-8-4, Exterior(2R) 9-8-4 to 13-11-3, Interior(1) 13-11-3 to 21-7-12, Exterior(2R) 21-7-12 to 25-7-6, Interior(1) 25-7-6 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 24, 2022

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

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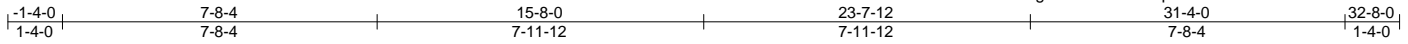
Job 22020373-01	Truss H1C	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214669
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:52 2022 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-niUBgQR?VbVVtMxQphnXs7weSv5i3mulRWi58hzYFI5

Job Reference (optional)



Scale = 1:56.3

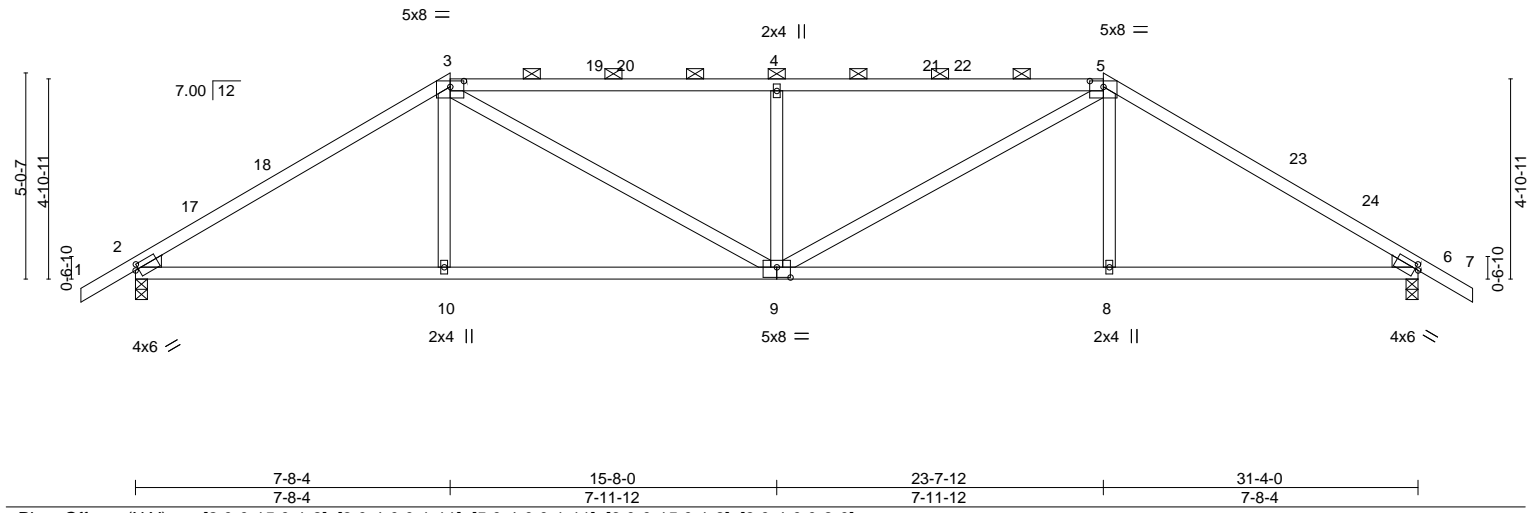


Plate Offsets (X, Y)--	[2:0-0-15,0-1-8], [3:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-0-15,0-1-8], [9:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.12	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.28	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.08	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 149 lb	FT = 20%

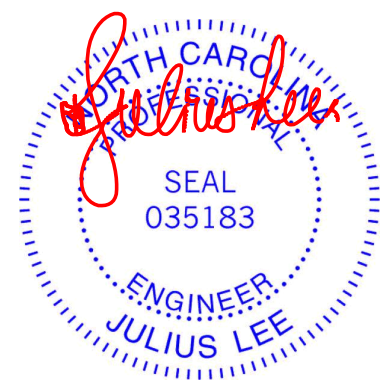
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-1-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-88(LC 10)
Max Uplift 2=-42(LC 12), 6=-42(LC 12)
Max Grav 2=1333(LC 1), 6=1333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1985/36, 3-4=-2226/66, 4-5=-2226/66, 5-6=-1985/36
BOT CHORD 2-10=0/1618, 9-10=0/1613, 8-9=0/1613, 6-8=0/1618
WEBS 3-10=0/310, 3-9=-0/809, 4-9=-559/103, 5-9=-0/809, 5-8=0/310

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-8-4, Exterior(2R) 7-8-4 to 11-11-3, Interior(1) 11-11-3 to 23-7-12, Exterior(2R) 23-7-12 to 27-10-11, Interior(1) 27-10-11 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 24, 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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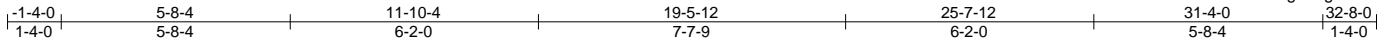
Job 22020373-01	Truss H1D	Truss Type HIP	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214670
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:53 2022 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-Fu2aumRdGudMUWVdNOImPLTo?JNJoCBRgARfg7zYFI4

Job Reference (optional)



Scale = 1:57.2

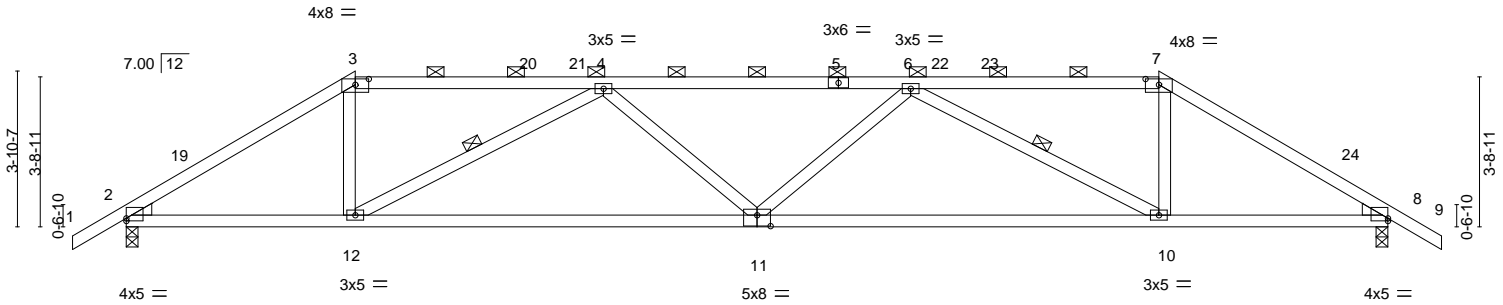


Plate Offsets (X,Y)--	[2:0-0-0,0-0-13], [3:0-4-0,0-1-11], [7:0-4-0,0-1-11], [8:0-0-0,0-0-13], [11:0-4-0,0-3-4]
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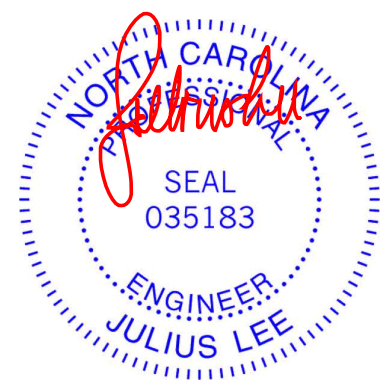
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.23	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.54	10-11	>697		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.11	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins (2-2-0 max.): 3-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 4-12, 6-10
Left: 2x4 SP No.3, Right: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-68(LC 10)
 Max Uplift 2=-42(LC 12), 8=-42(LC 12)
 Max Grav 2=1333(LC 1), 8=1333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2070/12, 3-4=-1683/37, 4-6=-2848/10, 6-7=-1683/37, 7-8=-2070/0
 BOT CHORD 2-12=0/1711, 11-12=0/2724, 10-11=0/2724, 8-10=0/1711
 WEBS 3-12=0/719, 4-12=-1243/52, 4-11=0/328, 6-11=0/328, 6-10=-1243/52, 7-10=0/719

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-8-4, Exterior(2R) 5-8-4 to 9-11-3, Interior(1) 9-11-3 to 25-7-12, Exterior(2R) 25-7-12 to 29-10-11, Interior(1) 29-10-11 to 32-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-01	Truss H1GR	Truss Type Hip Girder	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Roof Truss T27214671 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:11:56 2022 Page 2
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NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 40 lb up at 1-9-0, 64 lb down and 52 lb up at 3-8-4, 68 lb down and 49 lb up at 5-7-0, 68 lb down and 49 lb up at 7-7-0, 68 lb down and 49 lb up at 9-7-0, 64 lb down and 49 lb up at 11-7-0, 64 lb down and 49 lb up at 13-7-0, 64 lb down and 49 lb up at 15-7-0, 64 lb down and 49 lb up at 17-7-0, 64 lb down and 49 lb up at 19-7-0, 68 lb down and 49 lb up at 21-7-0, 68 lb down and 49 lb up at 23-7-0, and 68 lb down and 49 lb up at 25-7-0, and 64 lb down and 52 lb up at 27-7-12 on top chord, and 140 lb down and 22 lb up at 1-9-0, 26 lb down at 3-9-0, 26 lb down at 5-7-0, 26 lb down at 7-7-0, 26 lb down at 9-7-0, 26 lb down at 11-7-0, 26 lb down at 13-7-0, 26 lb down at 15-7-0, 26 lb down at 17-7-0, 26 lb down at 19-7-0, 26 lb down at 21-7-0, 26 lb down at 23-7-0, 26 lb down at 25-7-0, and 26 lb down at 27-7-0, and 140 lb down and 22 lb up at 29-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 16-19=-20

Concentrated Loads (lb)

Vert: 3=-31(B) 5=-31(B) 8=-31(B) 15=-20(B) 14=-20(B) 4=-31(B) 13=-20(B) 6=-31(B) 7=-31(B) 12=-20(B) 11=-20(B) 23=-31(B) 24=-31(B) 26=-31(B) 27=-31(B) 28=-31(B) 30=-31(B) 31=-31(B) 32=-140(B) 33=-20(B) 34=-20(B) 35=-20(B) 36=-20(B) 37=-20(B) 38=-20(B) 39=-20(B) 40=-20(B) 41=-140(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

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



818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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