

Trenco
818 Soundside Rd
Edenton, NC 27932

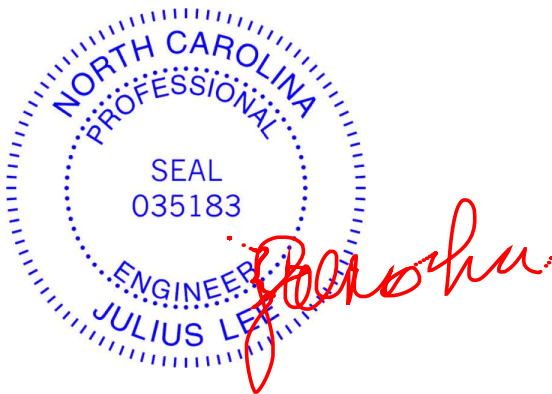
Re: 22020369-02
Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss

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: T27211723 thru T27211737

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

North Carolina COA: C-0844



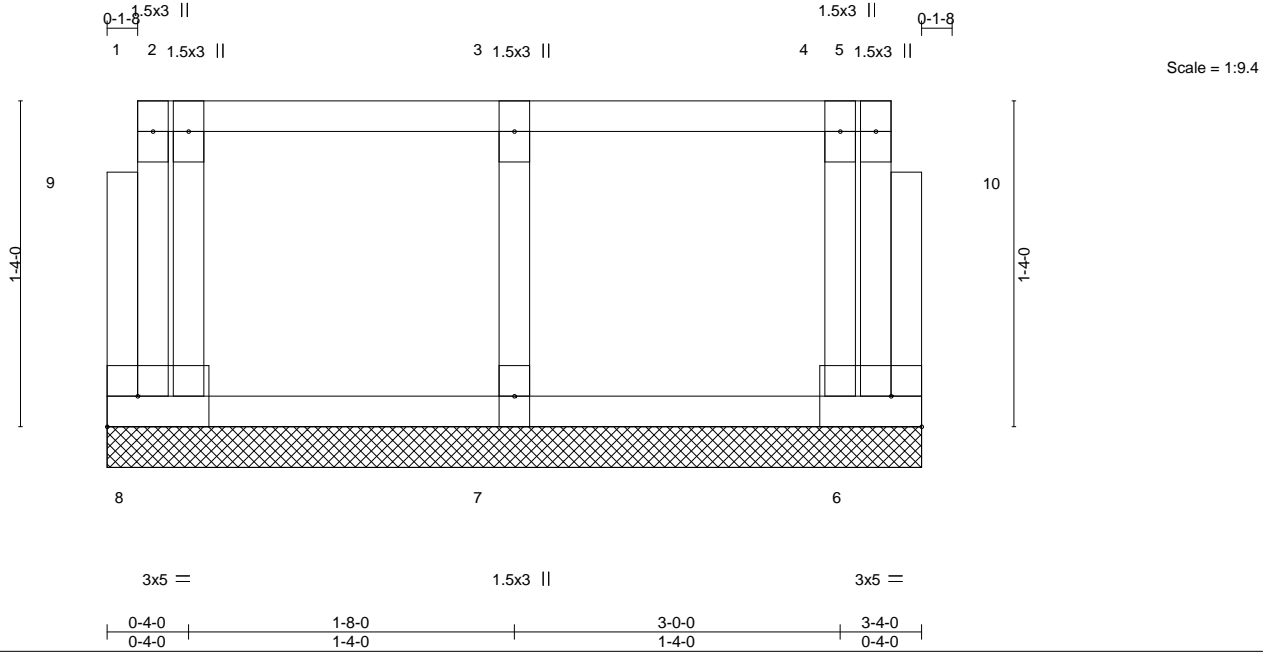
March 23, 2022

Lee, Julius

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job 22020369-02	Truss L2S	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211723
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:09 2022 Page 1
ID:Q92jJuhP0GqoNLxQvUX8syzdclu-TrC6cnEKqSRLZPcYNUU6627vZ36vNbBmFhziN1zYLdm



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 20 lb	FT = 20%F, 11%E

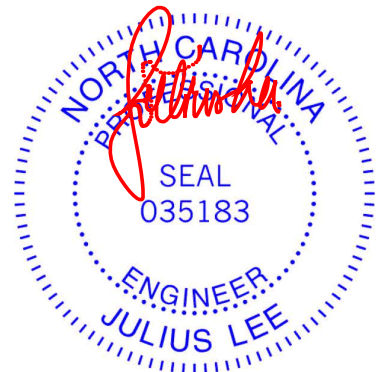
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. (size) 8=3-4-0, 6=3-4-0, 7=3-4-0
Max Grav 8=82(LC 1), 6=82(LC 1), 7=160(LC 1)

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

- NOTES-**
- 1) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

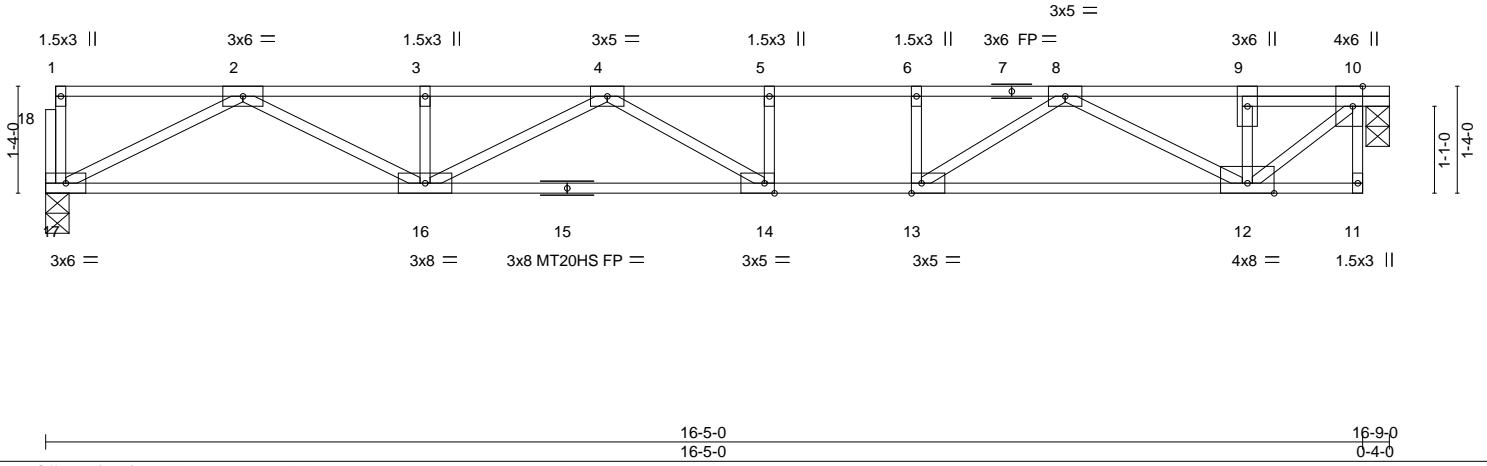
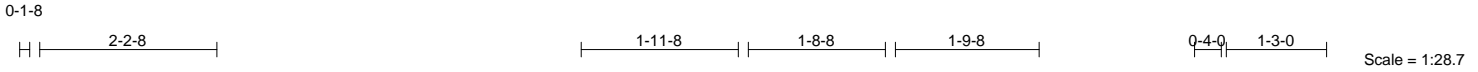
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



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Job 22020369-02	Truss F2B	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211724
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:01 2022 Page 1
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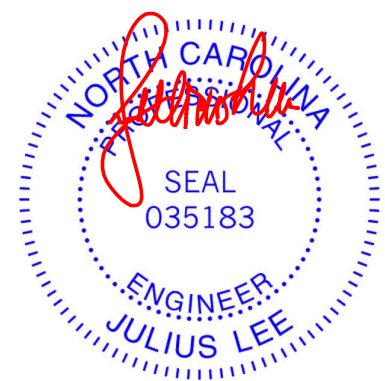
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(LL) -0.31 14-16 >638 480	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.63	Vert(CT) -0.42 14-16 >465 360		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.03 10 n/a n/a		
				Weight: 86 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-7: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 11-15: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-16.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=0-3-8, 10=0-3-8
Max Grav 17=886(LC 1), 10=893(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2483/0, 3-4=-2483/0, 4-5=-2849/0, 5-6=-2849/0, 6-8=-2849/0, 8-9=-1019/0, 9-10=-1015/0
BOT CHORD 16-17=0/1508, 14-16=0/2942, 13-14=0/2849, 12-13=0/2102
WEBS 9-12=-270/0, 10-12=0/1321, 6-13=-380/0, 8-12=-1231/0, 8-13=0/990, 2-17=-1693/0, 2-16=0/1105, 4-16=-519/0, 4-14=-320/310

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.

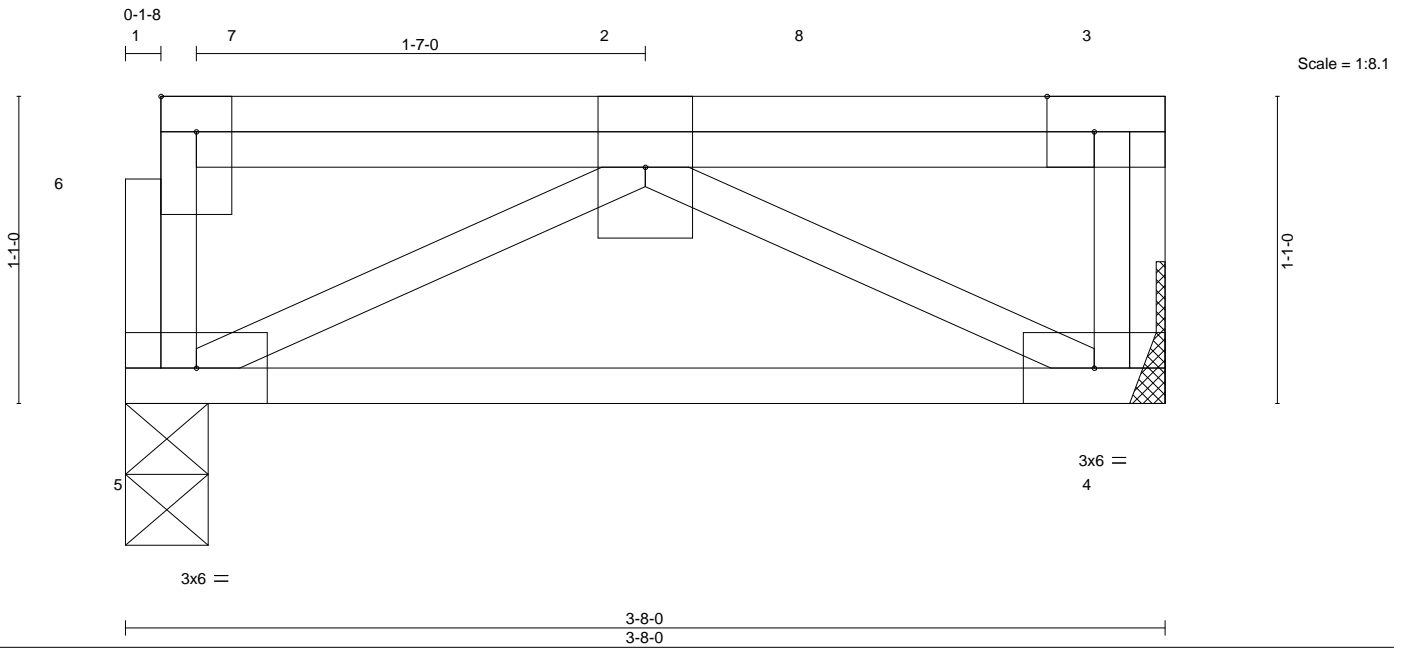


March 23, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020369-02	Truss F2GRA	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211725
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:05 2022 Page 1
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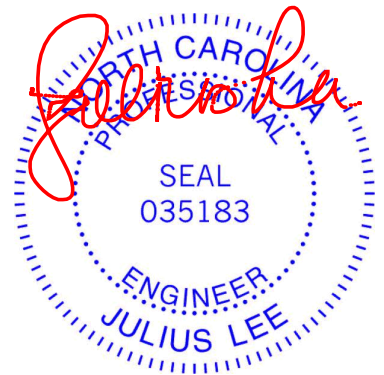


LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP			
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.56	Vert(LL)	0.00	in (loc)	5	l/defl	****	L/d	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.02	4-5	>999			360			
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	4	n/a			n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P										Weight: 25 lb	FT = 20%F, 11%E

- LUMBER-**
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
- BRACING-**
 TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS.** (size) 5=0-3-8, 4=Mechanical
 Max Grav 5=1149(LC 1), 4=839(LC 1)
- FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-5=-631/0, 3-4=-299/0
 BOT CHORD 4-5=0/998
 WEBS 2-5=-1081/0, 2-4=-1127/0

- NOTES-**
- 1) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 4-5=-10, 1-3=-100
 Concentrated Loads (lb)
 Vert: 7=-826 8=-793



March 23, 2022

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 Edenton, NC 27932

Job 22020369-02	Truss F2A	Truss Type FLOOR	Qty 6	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211726
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:00 2022 Page 1
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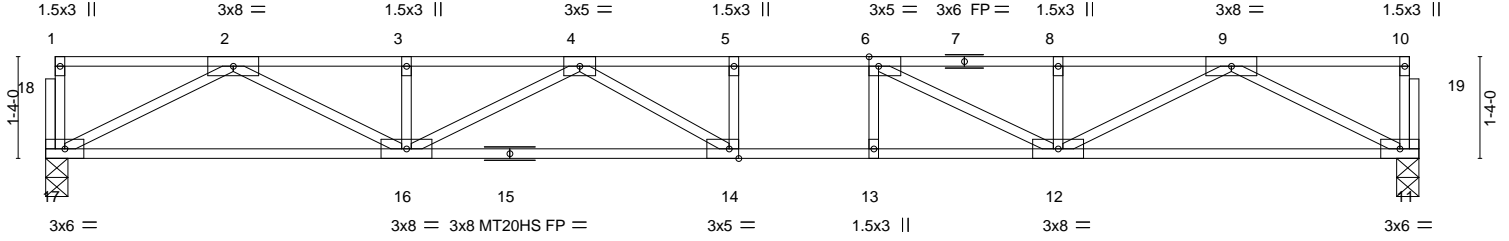
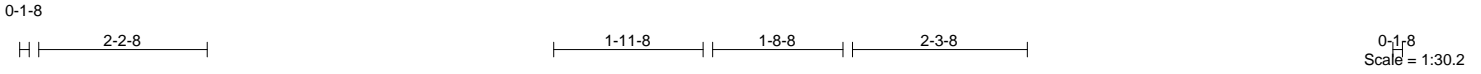


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [14:0-1-8,Edge]	9-11-4, 10-9-8 0-10-4 0-10-4	18-0-0 7-2-8
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.84	Vert(LL) -0.33	14-16	>650	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.95	Vert(CT) -0.45	14-16	>470	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.06	11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S						
							Weight: 91 lb	FT = 20%F, 11%E

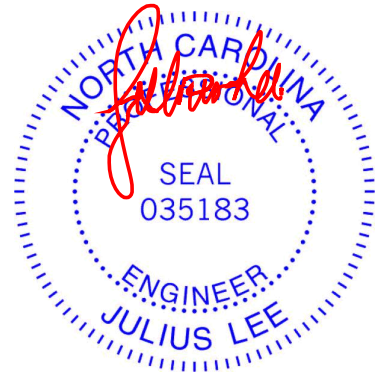
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 17=0-3-8, 11=0-3-8
Max Grav 17=970(LC 1), 11=970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2798/0, 3-4=-2798/0, 4-5=-3527/0, 5-6=-3527/0, 6-8=-2779/0, 8-9=-2779/0
BOT CHORD 16-17=0/1667, 14-16=0/3416, 13-14=0/3527, 12-13=0/3527, 11-12=0/1660
WEBS 2-17=-1872/0, 2-16=0/1281, 4-16=-701/0, 4-14=-184/492, 9-11=-1864/0, 9-12=0/1267,
8-12=-257/33, 6-12=-1017/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

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818 Soundside Road
Edenton, NC 27932

Job 22020369-02	Truss F2	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211727
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:58:59 2022. Page 1
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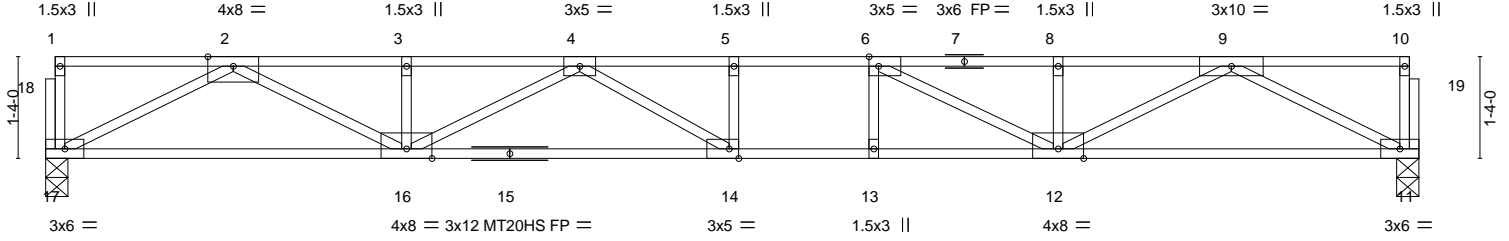
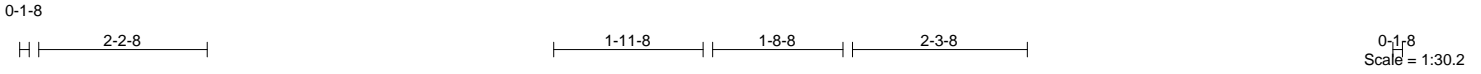


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [14:0-1-8,Edge]	9-1-0 9-1-0	9-11-4 0-10-4	10-9-8 0-10-4	18-0-0 7-2-8
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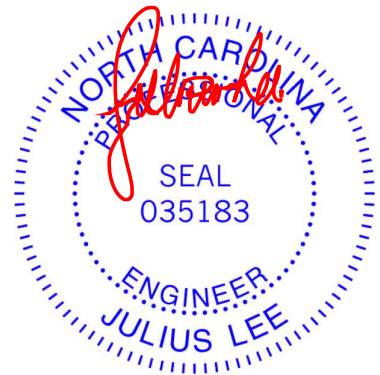
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.73	Vert(LL) -0.28	14-16	>753	480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.82	Vert(CT) -0.46	14-16	>466	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.06	11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S						
							Weight: 91 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 11-15: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=0-3-8, 11=0-3-8
Max Grav 17=1146(LC 1), 11=1146(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3303/0, 3-4=-3303/0, 4-5=-4168/0, 5-6=-4168/0, 6-8=-3281/0, 8-9=-3281/0
BOT CHORD 16-17=0/1972, 14-16=0/4037, 13-14=0/4168, 12-13=0/4168, 11-12=0/1964
WEBS 2-17=-2214/0, 2-16=0/1508, 3-16=-253/0, 4-16=-831/0, 4-14=-158/512, 9-11=-2206/0,
9-12=0/1491, 8-12=-296/0, 6-12=-1172/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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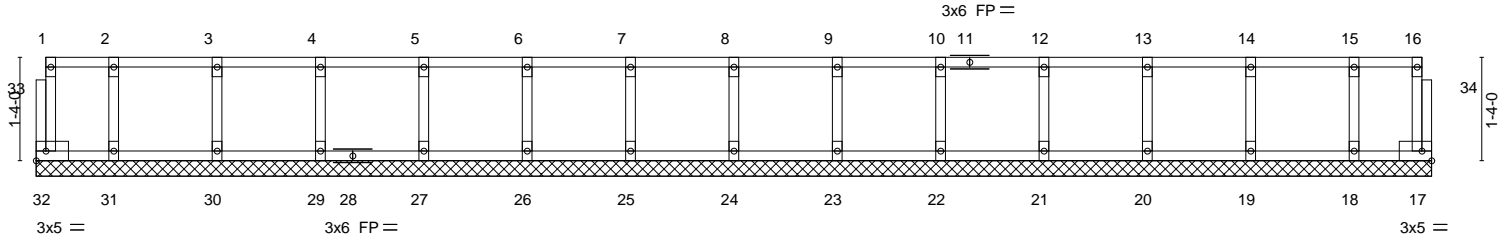
Job 22020369-02	Truss L2	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211728
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:06 2022 Page 1
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0-1-8

0-1-8

Scale = 1:29.7



1-0-0	2-4-0	3-8-0	5-0-0	6-4-0	7-8-0	9-0-0	10-4-0	11-8-0	13-0-0	14-4-0	15-8-0	17-0-0	18-0-0
1-0-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	17	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 80 lb	FT = 20%F, 11%E

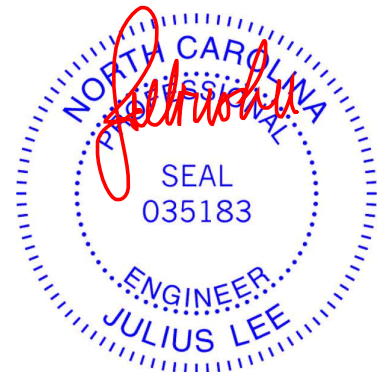
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 18-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 24, 25, 26, 27, 29, 30, 31, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

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

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

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

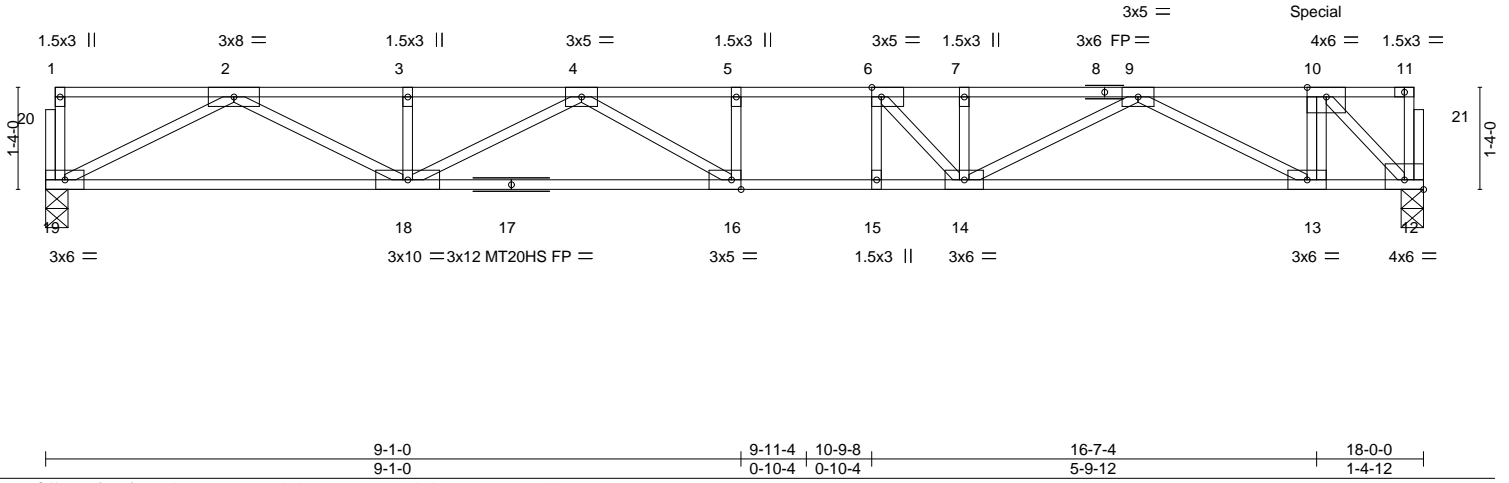
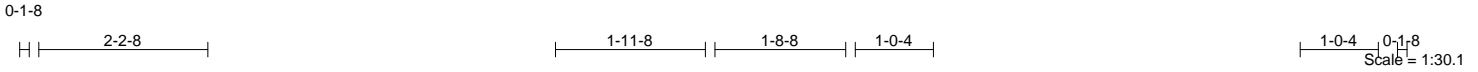
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 22020369-02	Truss F2GR	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211729
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:04 2022 Page 1
ID:Q92JuhP0GqoNLxQvUX8syzdclu-6uODZ3AB?wp3TekaaxuxP?Pty2DEiA616PG_hqzYLdr



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.81	Vert(LL) -0.28 16-18 >762 480	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.66	Vert(CT) -0.39 16-18 >543 360		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.06 12 n/a n/a		
				Weight: 95 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
12-17: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

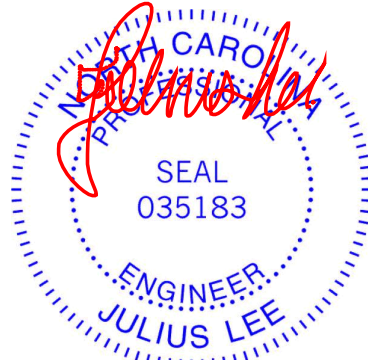
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=0-3-8, 12=0-3-8
Max Grav 19=1023(LC 1), 12=1656(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2997/0, 3-4=-2997/0, 4-5=-3953/0, 5-6=-3953/0, 6-7=-3704/0, 7-9=-3704/0, 9-10=-1708/0
BOT CHORD 18-19=0/1767, 16-18=0/3715, 15-16=0/3953, 14-15=0/3953, 13-14=0/2962, 12-13=0/1708
WEBS 10-13=0/691, 2-19=-1984/0, 2-18=0/1393, 4-18=-814/0, 4-16=0/614, 9-13=-1412/0, 9-14=0/840, 6-14=-625/156, 10-12=-2354/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 819 lb down at 16-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 10=-739(B)



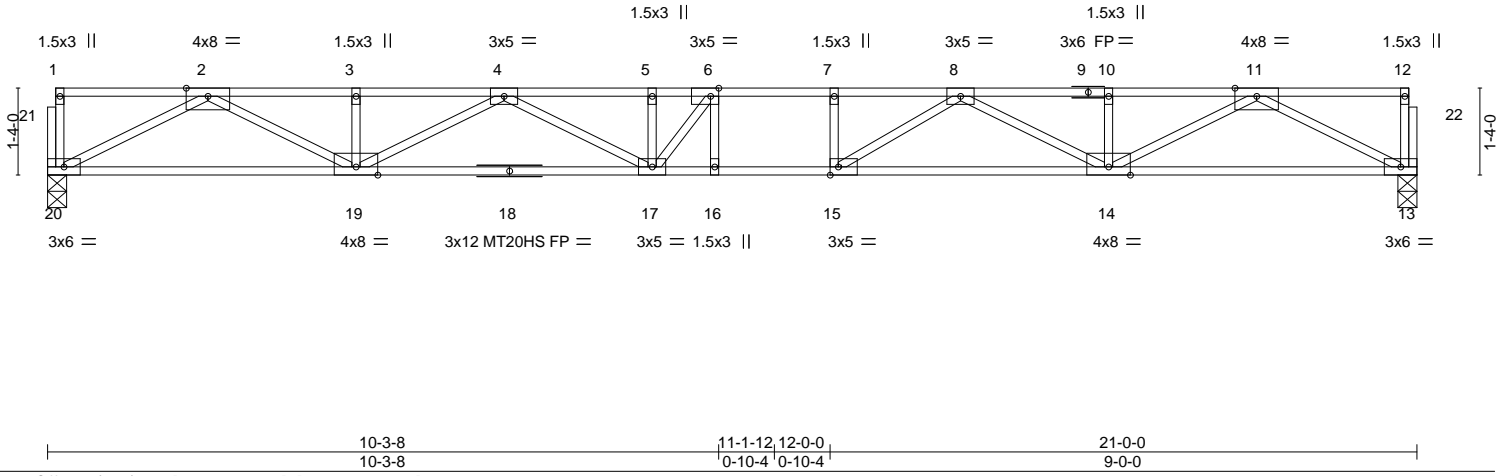
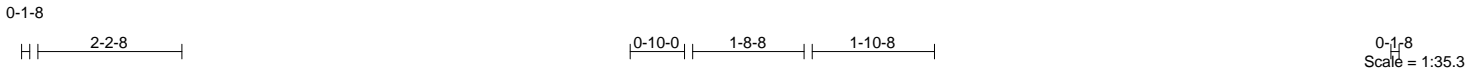
March 23, 2022

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



Job 22020369-02	Truss F2C	Truss Type FLOOR	Qty 8	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211730
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:02 2022 Page 1
ID:Q92jJuhP0GqoNLxQvUX8syzdclu-AVHT8N8xUJZLDKaCSWstJaKcSEWBEEpke5ntdxzYLdt



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.46	Vert(LL) -0.37 16 >677 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.50 16 >494 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.09 13 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 107 lb	FT = 20%F, 11%E

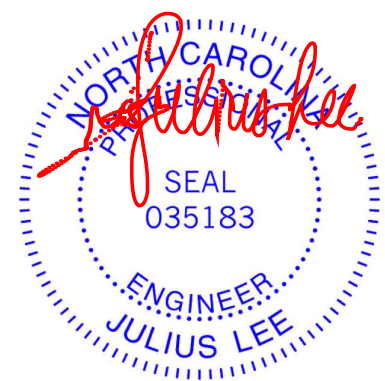
LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
13-18: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 20=0-3-8, 13=0-3-8
Max Grav 20=1135(LC 1), 13=1135(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3421/0, 3-4=-3421/0, 4-5=-4850/0, 5-6=-4850/0, 6-7=-4839/0, 7-8=-4839/0, 8-10=-3419/0, 10-11=-3419/0
BOT CHORD 19-20=0/1979, 17-19=0/4355, 16-17=0/4839, 15-16=0/4839, 14-15=0/4351, 13-14=0/1977
WEBS 7-15=-303/0, 2-20=-2223/0, 2-19=0/1634, 4-19=0/1058/0, 4-17=0/609, 5-17=-318/88, 6-17=-529/457, 11-13=-2221/0, 11-14=0/1633, 8-14=-1056/0, 8-15=0/846

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

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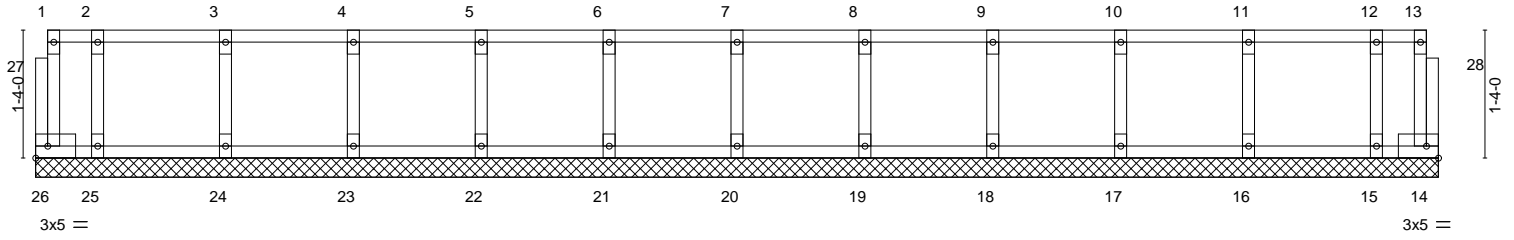
Job 22020369-02	Truss L2D	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211731
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:07 2022 Page 1
ID:Q92JuhP0GqoNLxQvUX8syzdclu-XT4MB5C3lrBeK5T9F3Re0d1ZBFQXvhjToNUel9zYLdo

0-1/8

0-1/8

Scale: 1/2"=1'



0-7-12	1-11-12	3-3-12	4-7-12	5-11-12	7-3-12	8-7-12	9-11-12	11-3-12	12-7-12	13-11-12	14-7-8
0-7-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 67 lb	FT = 20%F, 11%E

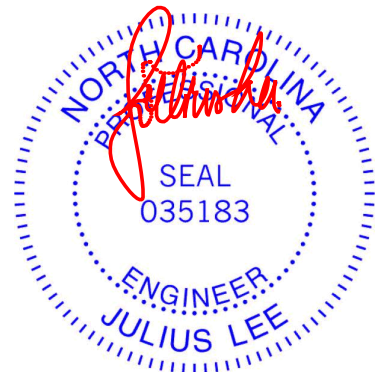
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 14-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 24, 25, 19, 18, 17, 16, 15

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 26 and 14. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

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

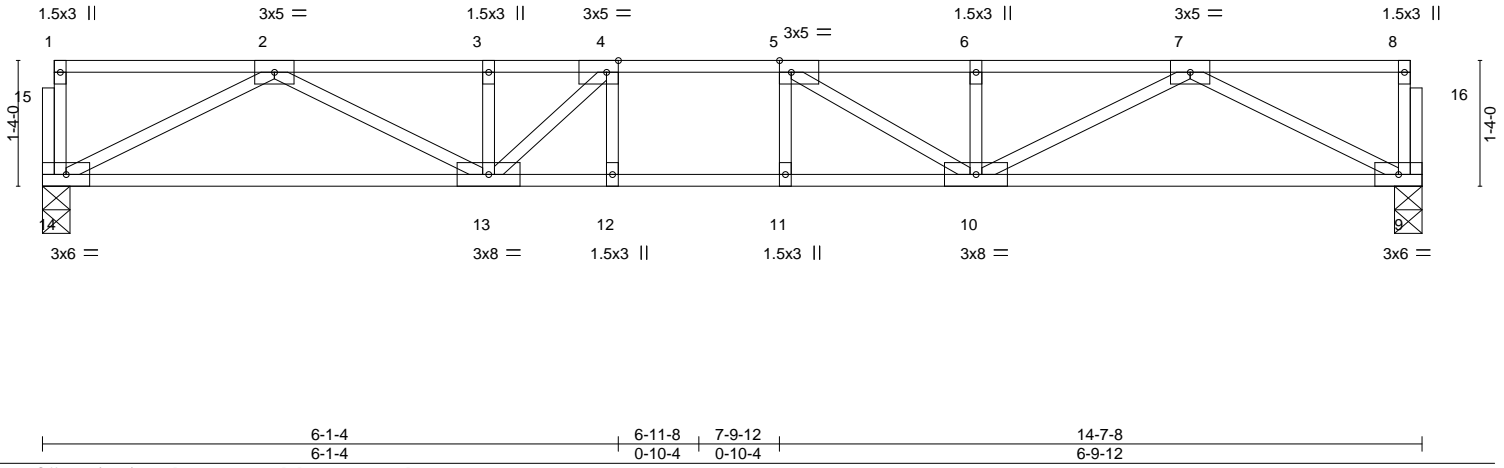
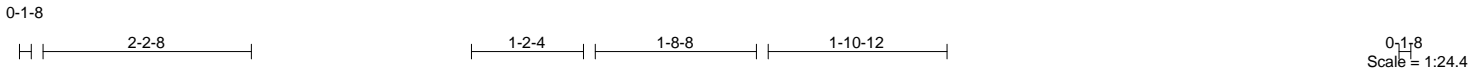
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 22020369-02	Truss F2D	Truss Type FLOOR	Qty 7	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211732
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:02 2022 Page 1
ID:Q92jJuhP0GqoNLxQvUX8syzdclu-AVHT8N8xUJZLDKaCSWsTJaKdoEUCEJCKe5ntdxzYLdt



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.98	Vert(LL) -0.13 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Vert(CT) -0.21 10-11 >824 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 76 lb	FT = 20%F, 11%E

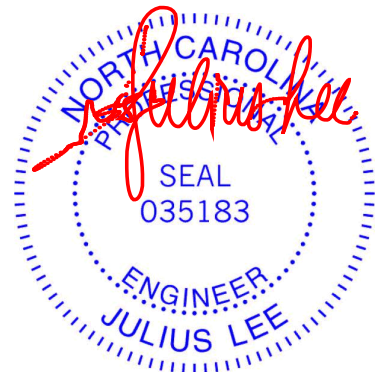
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=927(LC 1), 9=927(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2445/0, 3-4=-2445/0, 4-5=-2744/0, 5-6=-2468/0, 6-7=-2468/0
BOT CHORD 13-14=0/1548, 12-13=0/2744, 11-12=0/2744, 10-11=0/2744, 9-10=0/1545
WEBS 2-14=-1737/0, 2-13=0/1016, 4-13=-620/0, 7-9=-1734/0, 7-10=0/1046, 6-10=-301/0, 5-10=-546/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

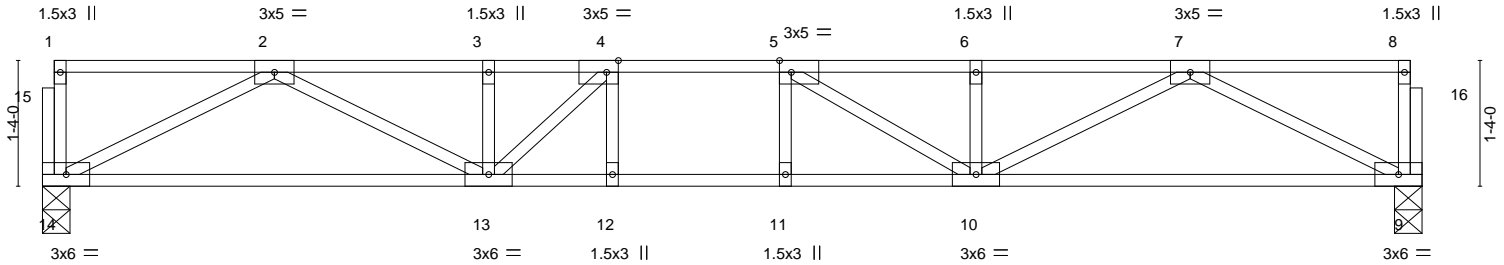
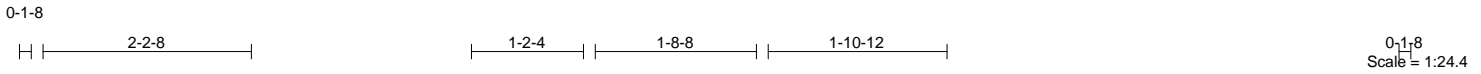
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

Job 22020369-02	Truss F2E	Truss Type FLOOR	Qty 5	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211733
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:03 2022 Page 1
ID:Q92jJuhP0GqoNLxQvUX8syzdclu-eiqrMj9ZFchCrU9O0ENisntmLes8zncnttIWQ9OzYLds



6-1-4	6-1-4	6-11-8	7-9-12	14-7-8
6-1-4	6-1-4	0-10-4	0-10-4	6-9-12
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]				

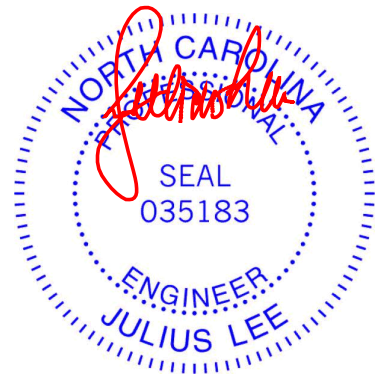
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0 Plate Grip DOL 1.00	TC 0.52	Vert(LL) -0.14	10-11	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.19	10-11	>914	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.04	9	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 76 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2071/0, 3-4=-2071/0, 4-5=-2322/0, 5-6=-2090/0, 6-7=-2090/0
BOT CHORD 13-14=0/1307, 12-13=0/2322, 11-12=0/2322, 10-11=0/2322, 9-10=0/1305
WEBS 2-14=-1467/0, 2-13=0/865, 4-13=-554/1, 7-9=-1465/0, 7-10=0/889, 6-10=-253/0, 5-10=-494/15

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 23, 2022

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818 Soundside Road
Edenton, NC 27932

Job 22020369-02	Truss F2GRB	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211734
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:05 2022 Page 1
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Scale = 1:10.2

3x5 =

1 3x5 || 9 2 3 3x5 = 4 3x5 ||

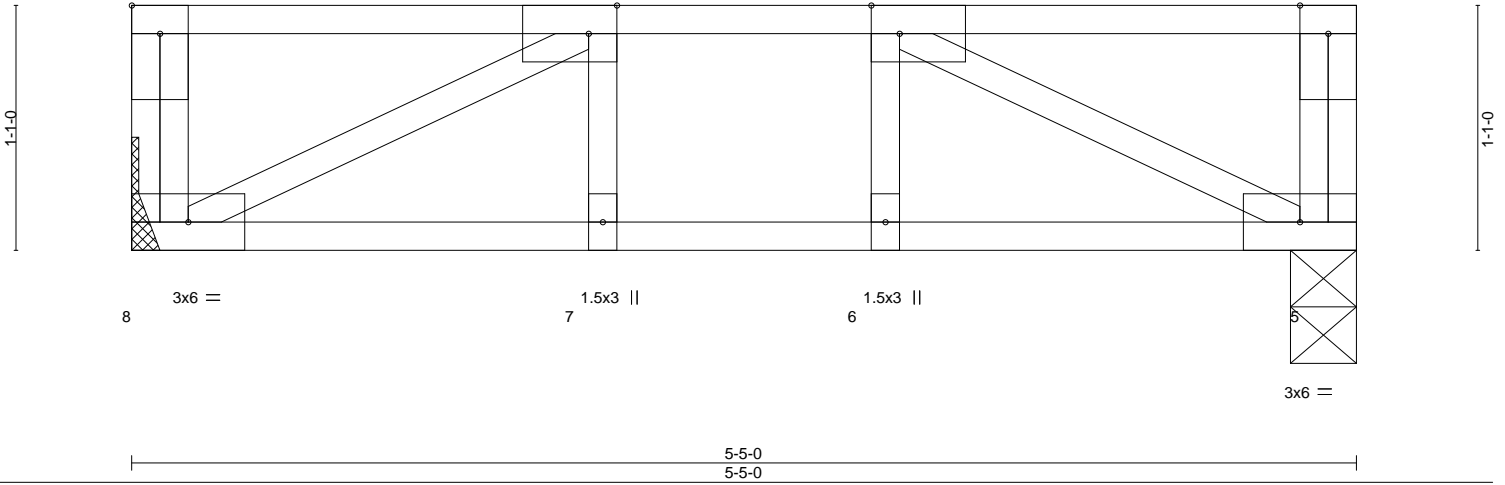


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.86	Vert(LL)	-0.03	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.59	Vert(CT)	-0.04	7	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.40	Horz(CT)	0.01	5	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 29 lb	FT = 20%F, 11%E

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

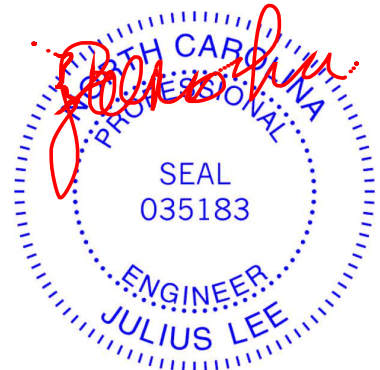
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=1013(LC 1), 5=815(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-286/0, 2-3=-1456/0
BOT CHORD 7-8=0/1456, 6-7=0/1456, 5-6=0/1456
WEBS 3-5=-1621/0, 2-8=-1621/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 3=-630 9=-630



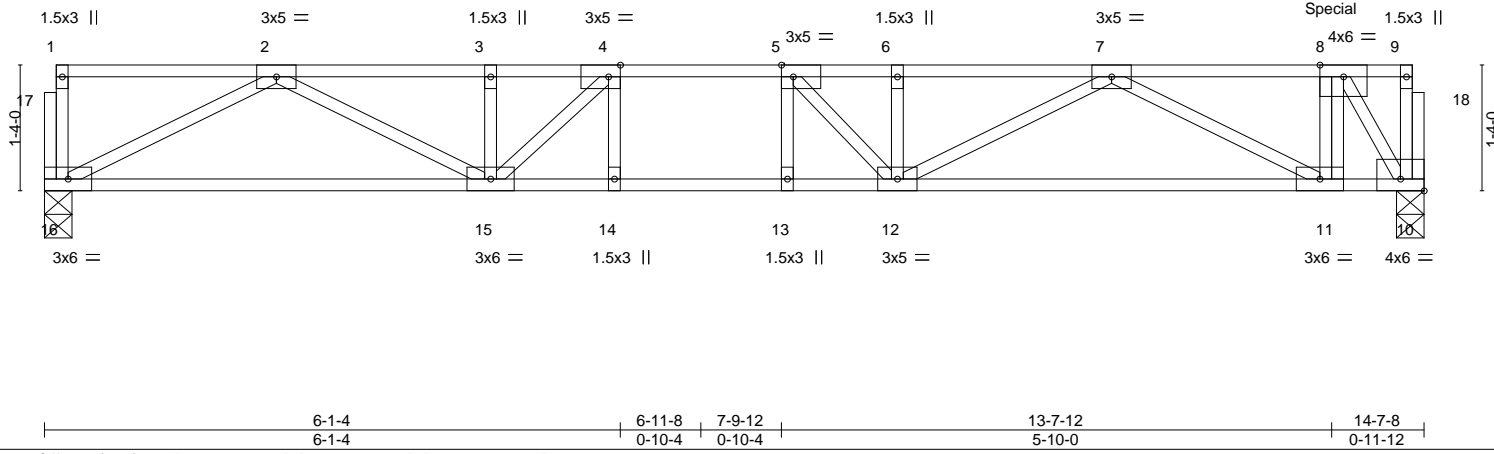
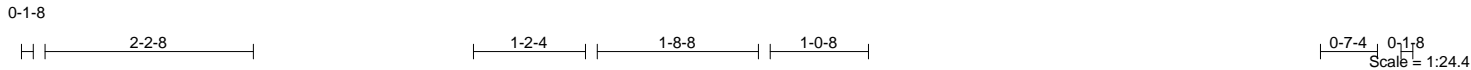
March 23, 2022

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818 Soundside Road
Edenton, NC 27932

Job 22020369-02	Truss F1GRE	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211735
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.90	Vert(LL) -0.15 13 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.47	Vert(CT) -0.21 13 >826 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 80 lb	FT = 20%F, 11%E

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

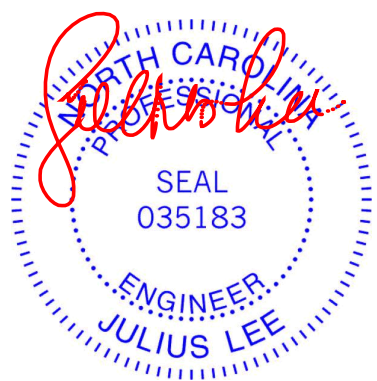
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-8, 10=0-3-8
Max Grav 16=839(LC 1), 10=1653(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2273/0, 3-4=-2273/0, 4-5=-2624/0, 5-6=-2653/0, 6-7=-2653/0, 7-8=-1172/0
BOT CHORD 15-16=0/1413, 14-15=0/2624, 13-14=0/2624, 12-13=0/2624, 11-12=0/2155, 10-11=0/1172
WEBS 8-11=0/547, 2-16=-1586/0, 2-15=0/974, 4-15=-679/0, 7-11=-1107/0, 7-12=0/564,
6-12=-258/0, 5-12=-233/301, 8-10=-2031/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 995 lb down at 13-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-16=-10, 1-9=-100
Concentrated Loads (lb)
Vert: 8=-924(B)



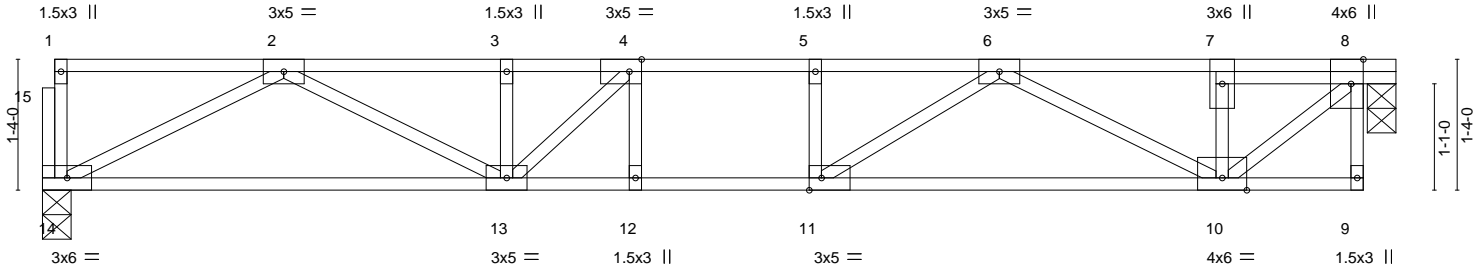
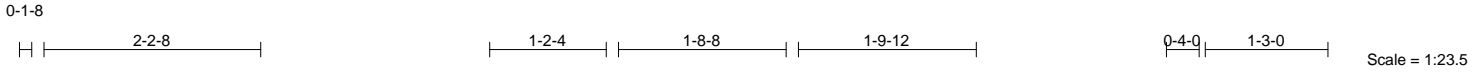
March 23, 2022

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

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

Job 22020369-02	Truss F2F	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211736
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:04 2022 Page 1
ID:Q92JuhP0GqoNLxQvUX8syzdclu-6uODZ3AB?wp3TekaaxuxP?PzG2E7ICR16PG_hqzYLdr



13-5-8 13-5-8 13-9-8 0-4-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.44	Vert(LL)	-0.11 12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.76	Vert(CT)	-0.14 10-11	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.01 8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 73 lb	FT = 20%F, 11%E

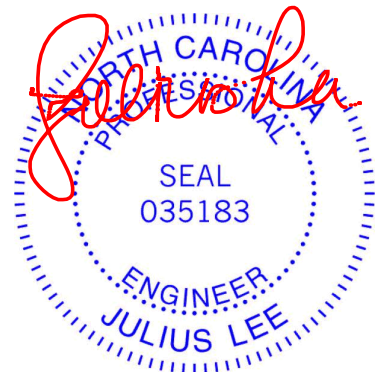
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 14=0-3-8, 8=0-3-8
Max Grav 14=724(LC 1), 8=730(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1847/0, 3-4=-1847/0, 4-5=-1978/0, 5-6=-1978/0, 6-7=-834/0, 7-8=-830/0
BOT CHORD 13-14=0/1191, 12-13=0/1978, 11-12=0/1978, 10-11=0/1613
WEBS 8-10=0/1081, 2-14=-1336/0, 2-13=0/744, 4-13=-420/84, 6-10=-887/0, 6-11=0/566

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - CAUTION, Do not erect truss backwards.



March 23, 2022

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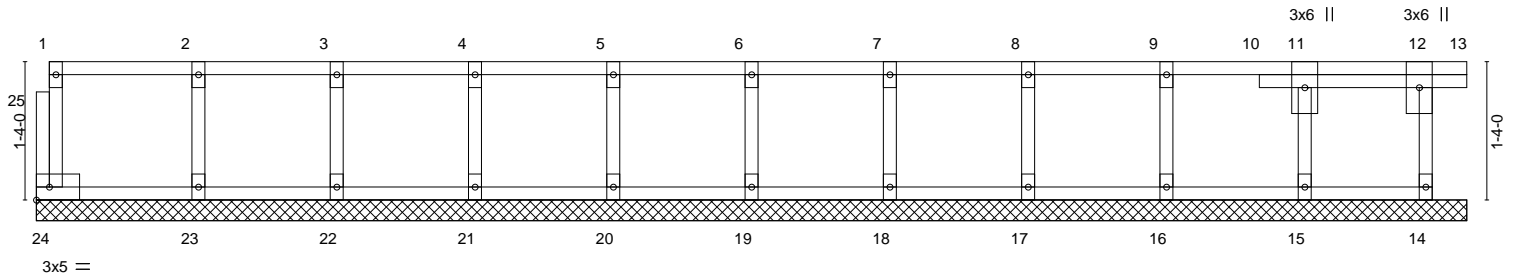
Job 22020369-02	Truss L2F	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 7-Ph2 S2-2131 Elev 'A' Permit-Floor Truss T27211737
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 14:59:09 2022 Page 1
ID:Q92JuhP0GqoNLxQvUX8syzdclu-TrC6cnEKqSRLZPcYNUU6627vZ36mNbBmFhziN1zYLdm

0-1-8

0-4-0

Scale = 1:22.2



1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-5-8	13-9-8
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-12	0-4-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	-0.00	12	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 62 lb	FT = 20%F, 11%E

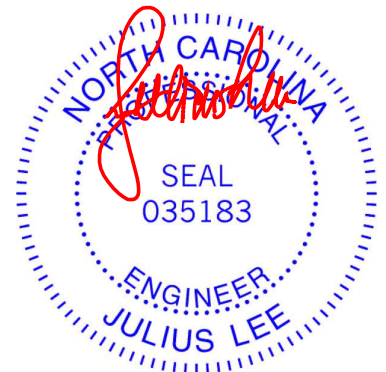
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 13-9-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



March 23, 2022

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

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

ENGINEERING BY
TRENCO
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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: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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