

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 22020376-02
Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' 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: T27224044 thru T27224064

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 22020376-02	Truss L3J	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224044
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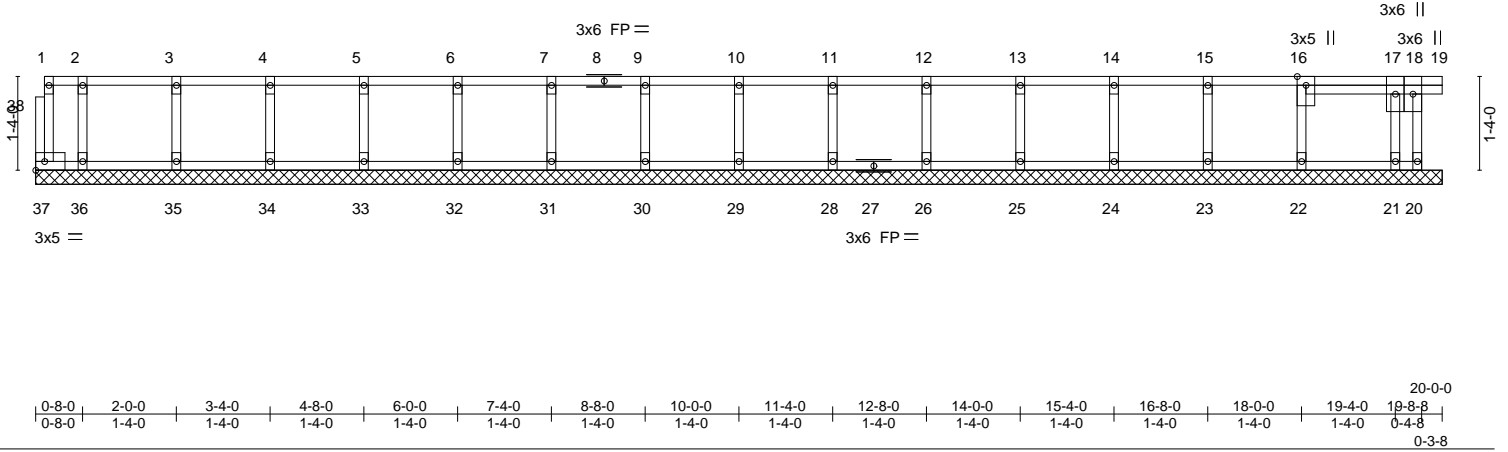
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:39 2022 Page 1
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0-1-8

0-3-8

Scale = 1:32.8



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)	-0.00	18	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	-0.00	18	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	20	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 90 lb	FT = 20%F, 11%E

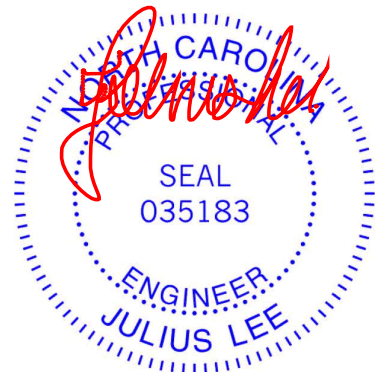
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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 20-0-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 37, 20, 29, 30, 31, 32, 33, 34, 35, 36, 28, 26, 25, 24, 23, 22, 21

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 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 22020376-02	Truss F3J	Truss Type FLOOR	Qty 6	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224045
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:26 2022 Page 1
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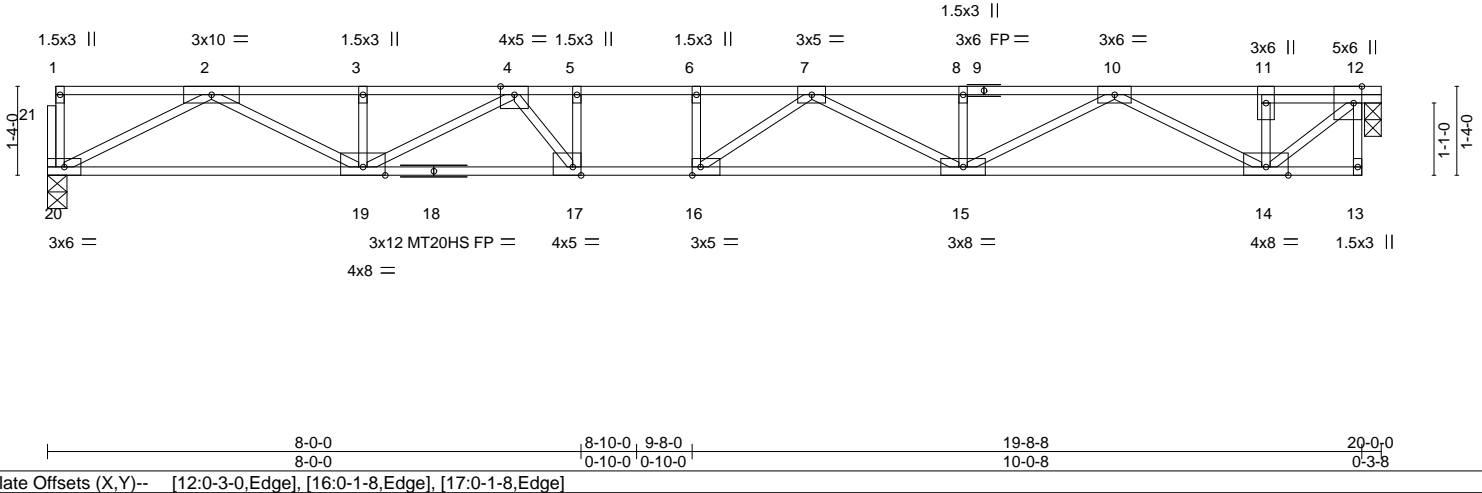
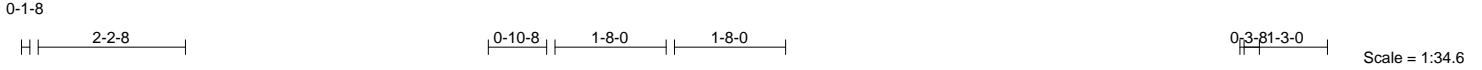


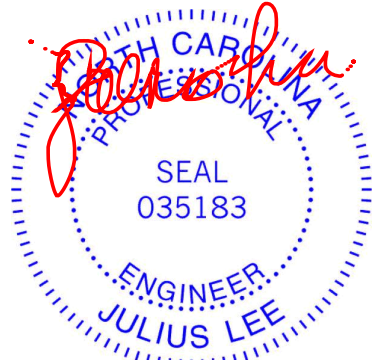
Plate Offsets (X,Y)--	[12:0-3-0,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.91	Vert(LL) -0.39 15-16 >608 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.96	Vert(CT) -0.54 15-16 >436 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.77	Horz(CT) -0.01 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 103 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-9: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3(flat)	2-2-0 oc bracing: 15-16.

REACTIONS. (size) 20=0-3-8, 12=0-3-0
Max Grav 20=1067(LC 1), 12=1074(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3161/0, 3-4=-3161/0, 4-5=-4262/0, 5-6=-4262/0, 6-7=-4262/0, 7-8=-3703/0,
8-10=-3703/0, 10-11=-1242/0, 11-12=-1239/0
BOT CHORD 19-20=0/1844, 17-19=0/3975, 16-17=0/4262, 15-16=0/4229, 14-15=0/2655
WEBS 12-14=0/1613, 5-17=-471/0, 2-20=-2071/0, 2-19=0/1492, 4-19=-21758,
10-14=-1605/0, 10-15=0/1187, 7-15=-595/0, 7-16=-280/464

- 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 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 22020376-02	Truss L3D	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224046 Job Reference (optional)
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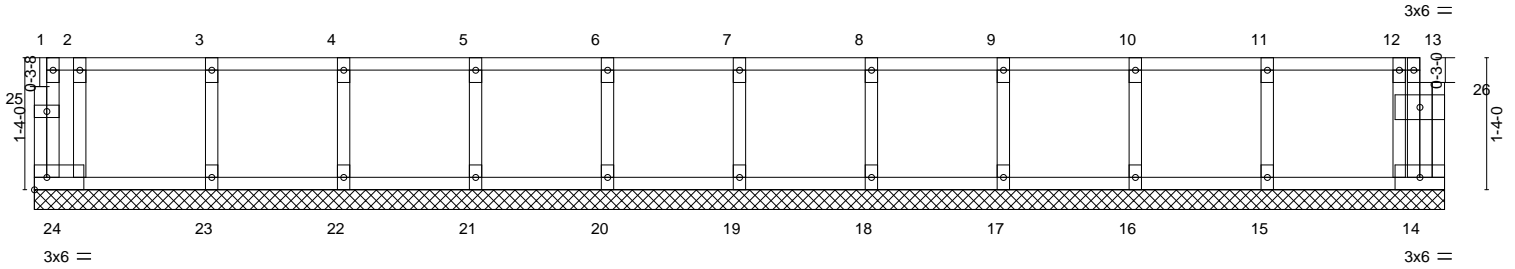
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:33 2022 Page 1
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0-1-8

0-3-0

Scale = 1:23.3



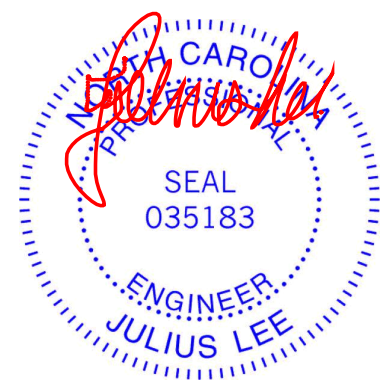
0-5-8 0-5-8	1-9-8 1-4-0	3-1-8 1-4-0	4-5-8 1-4-0	5-9-8 1-4-0	7-1-8 1-4-0	8-5-8 1-4-0	9-9-8 1-4-0	11-1-8 1-4-0	12-5-8 1-4-0	13-9-8 1-4-0	14-3-0 0-5-8
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a	999	MT20	244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a - n/a	999							
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 14 n/a n/a								
BCDL 5.0	Code IRC2018/TPI2014	Matrix-R									Weight: 67 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 14-3-0.
(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-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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 24, 2022

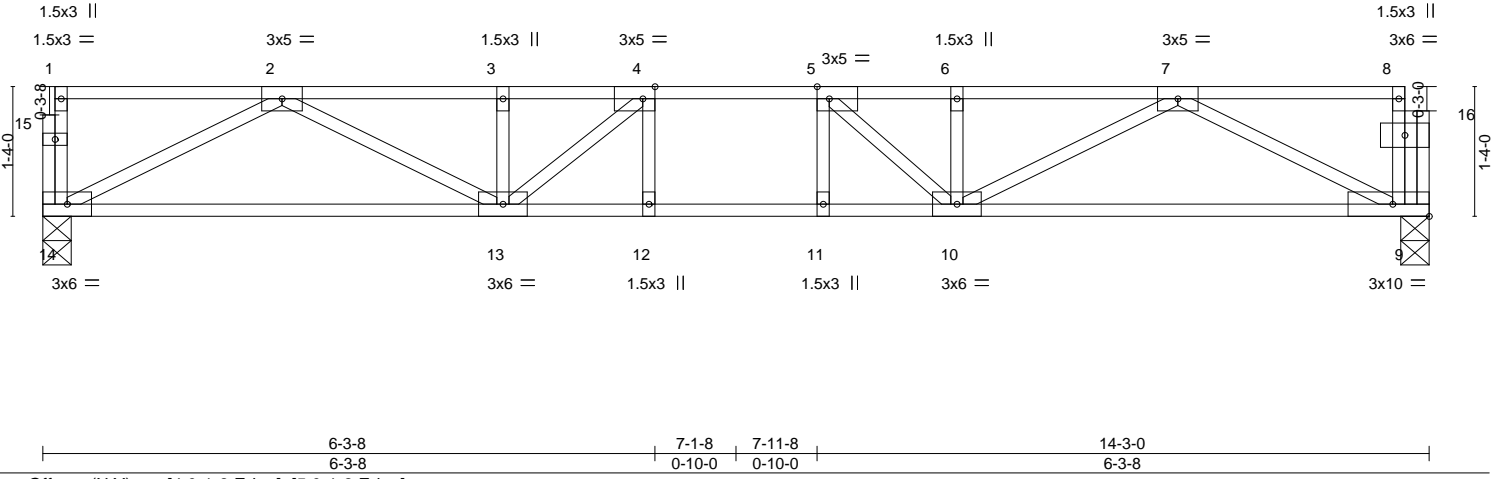
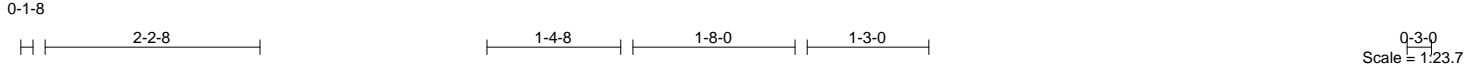
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 22020376-02	Truss F3D	Truss Type FLOOR	Qty 8	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224047
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:02 2022 Page 1
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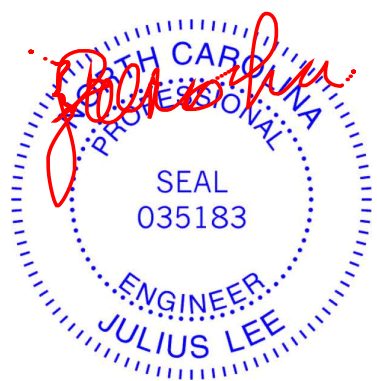
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.75	Vert(LL) -0.11 12 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.39	Vert(CT) -0.15 11-12 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 75 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=760(LC 1), 9=754(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1986/0, 3-4=-1986/0, 4-5=-2183/0, 5-6=-1998/0, 6-7=-1998/0
BOT CHORD 13-14=0/1261, 12-13=0/2183, 11-12=0/2183, 10-11=0/2183, 9-10=0/1286
WEBS 2-14=-1414/0, 2-13=0/822, 4-13=-466/30, 7-9=-1430/0, 7-10=0/806, 5-10=-464/42

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) 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.
 - 3) 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 24, 2022

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Job 22020376-02	Truss L3S	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224048 Job Reference (optional)
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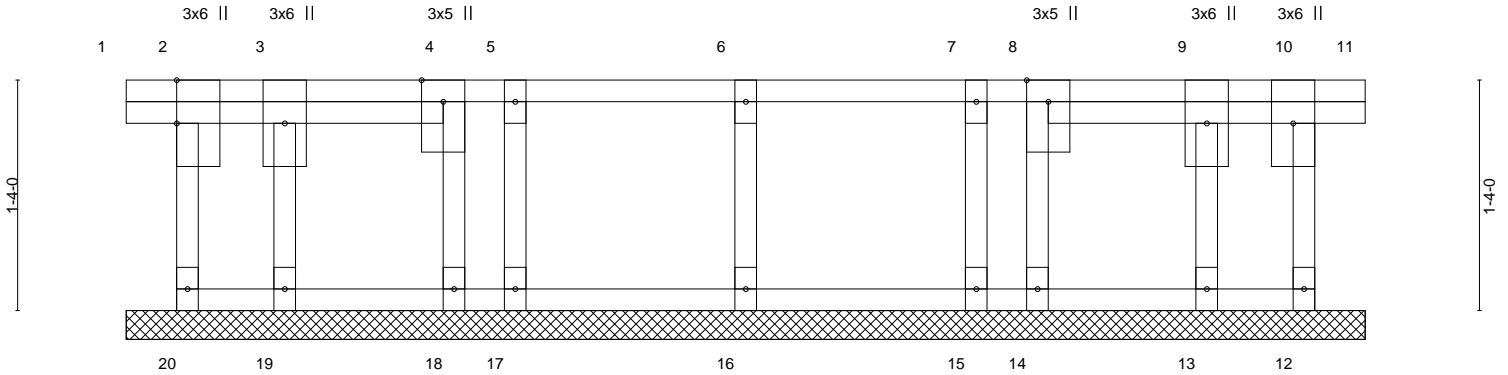
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:41 2022 Page 1
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0-3-8

0-3-8

Scale = 1:13.3



0-3-8	0-11-0	1-10-0	2-0-0 2-3-0	4-11-0	5-4-0	6-3-0	6-10-8	7-2-0
0-3-8	0-7-8	0-11-0	0-2-0 0-3-0	2-8-0	0-5-0	0-11-0	0-7-8	0-3-8

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

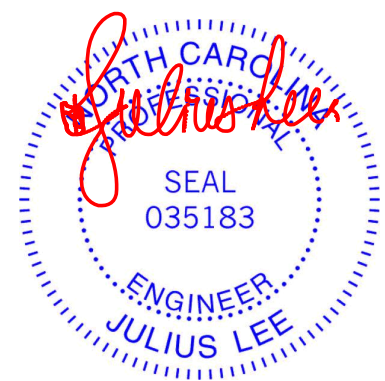
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	-0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	-0.00	10	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	12	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 40 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 7-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 7-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 19, 15, 13, 18, 14

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) 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 24, 2022

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Job 22020376-02	Truss F3JA	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224049
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:28 2022 Page 1

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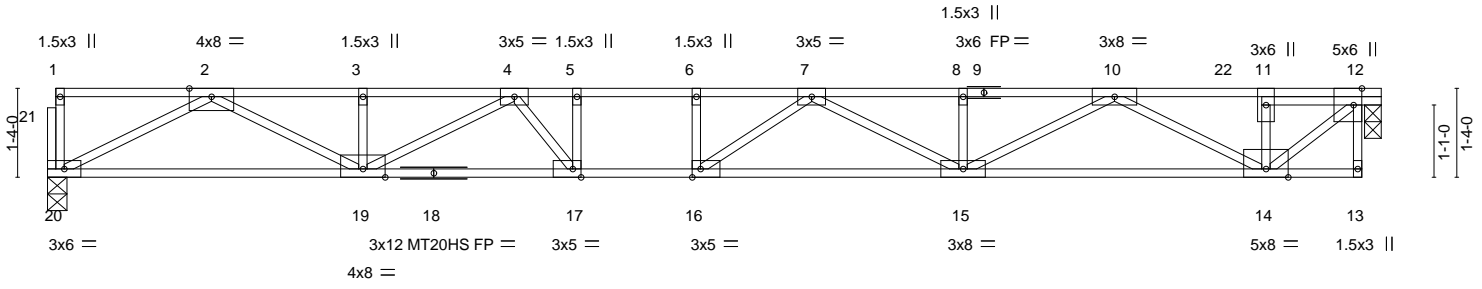
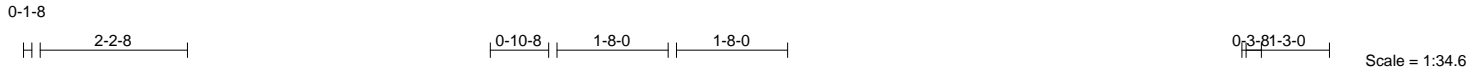


Plate Offsets (X,Y)--	[12:0-3-0,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]	8-10-0 8-10-0	19-8-8 10-10-8	20-0-0 0-3-8
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.63	Vert(LL) -0.32 15-16 >731 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.46 15-16 >506 360	MT20HS 187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.01 12 n/a n/a	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 103 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-9: 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 13-18: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

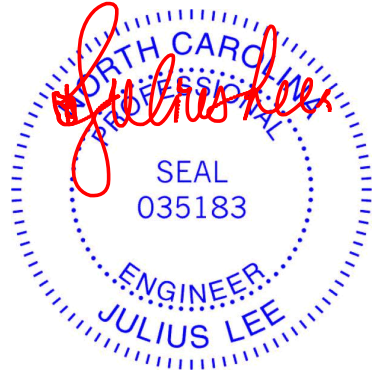
REACTIONS. (size) 20=0-3-8, 12=0-3-0
Max Grav 20=1177(LC 1), 12=1137(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3456/0, 3-4=-3456/0, 4-5=-4579/0, 5-6=-4579/0, 6-7=-4579/0, 7-8=-3892/0,
8-10=-3892/0, 10-11=-1309/0, 11-12=-1305/0
BOT CHORD 19-20=0/2028, 17-19=0/4307, 16-17=0/4579, 15-16=0/4481, 14-15=0/2782
WEBS 11-14=-266/0, 12-14=0/1698, 5-17=-462/3, 2-20=-2278/0, 2-19=0/1617, 3-19=-271/0,
4-19=-964/0, 4-17=-45/733, 10-14=-1673/0, 10-15=0/1258, 7-15=-667/0, 7-16=-202/542

- 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) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 8) 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: 13-20=-10, 1-6=-115, 6-22=-100, 12-22=-115
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-6=-115, 6-22=-100, 12-22=-115
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-6=-115, 6-22=-20, 12-22=-35



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>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3JA	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224049 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:28 2022 Page 2
ID:Co_LqlUbt4ATaJKEajxSMZzY4vF-k7R2NL?d3p413F33hWRDQLmSuXycOZ4KsWJJTAzY1Rb

LOAD CASE(S) Standard

- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-5=-35, 5-6=-115, 6-22=-100, 12-22=-115
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-6=-115, 6-22=-20, 12-22=-35
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-5=-35, 5-6=-115, 6-22=-100, 12-22=-115

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

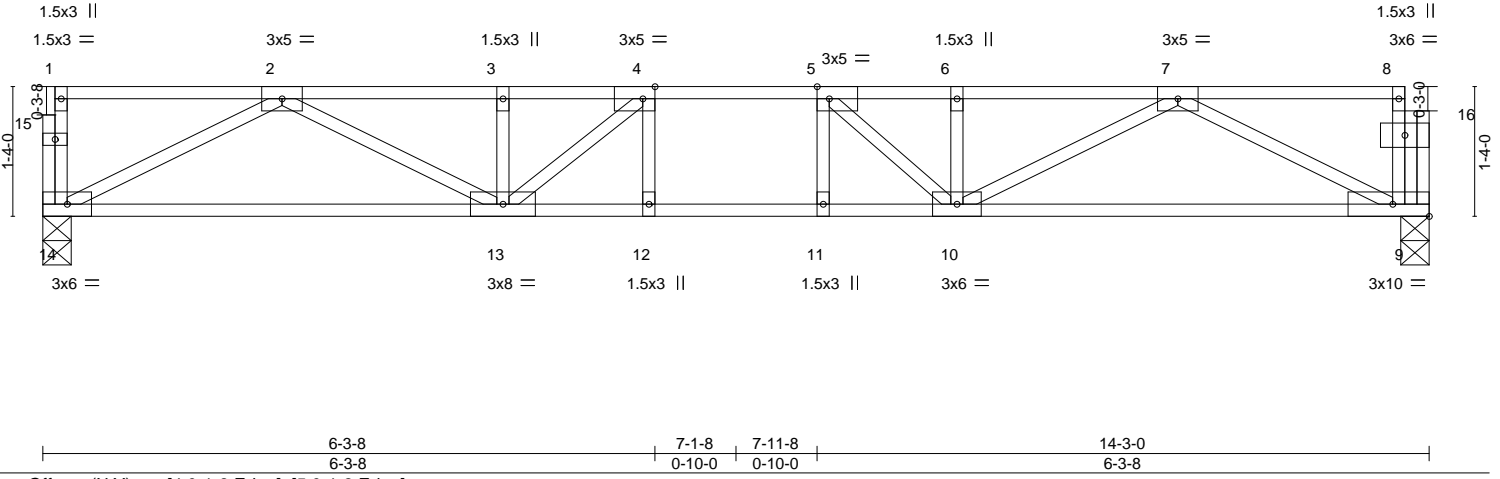
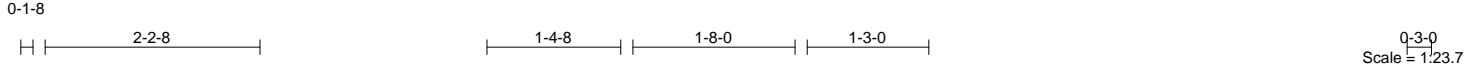


818 Soundside Road
Edenton, NC 27932

Job 22020376-02	Truss F3DA	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224050
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:03 2022 Page 1
ID:Co_LqlUbt4ATaJKEajxSMZzY4vF-zJRc8oiyy7xaZPFgmUMv4DC?SQH1L7f67mU57zY1S_



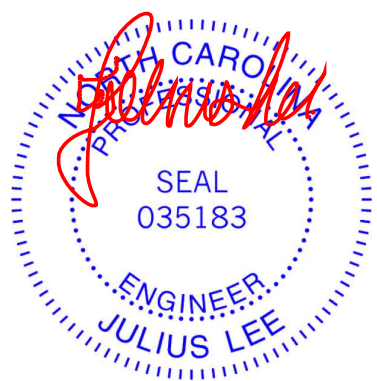
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 22.0	Plate Grip DOL 1.00	BC 0.88	Vert(LL) -0.11 12 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.47	Vert(CT) -0.18 11-12 >908 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 75 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=926(LC 1), 9=918(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2417/0, 3-4=-2417/0, 4-5=-2659/0, 5-6=-2431/0, 6-7=-2431/0
BOT CHORD 13-14=0/1539, 12-13=0/2659, 11-12=0/2659, 10-11=0/2659, 9-10=0/1571
WEBS 2-14=-1727/0, 2-13=0/994, 3-13=-266/0, 4-13=-526/0, 7-9=-1746/0, 7-10=0/974, 6-10=-259/0, 5-10=-523/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) 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.
 - 3) 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 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>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3H	Truss Type FLOOR	Qty 5	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224051
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:24 2022 Page 1
ID:Co_LqlUbt4ATaJKEajxSMZzY4vF-sMCYYzy70aabaemlShMHFWbjawfvSrtlxuL6KPzY1Rf



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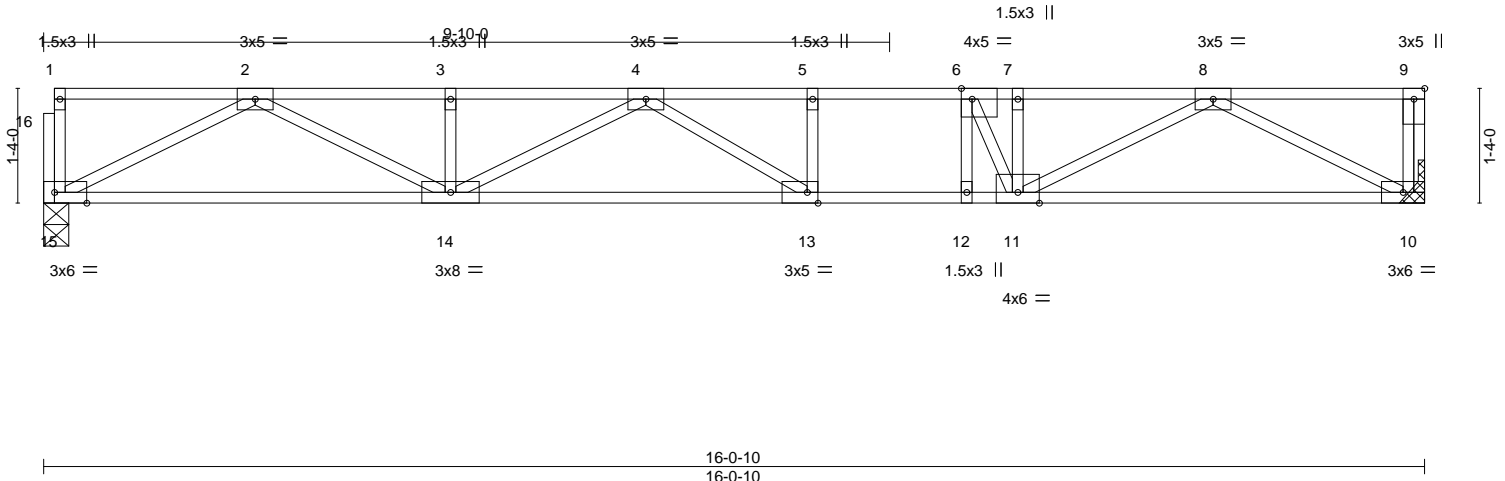


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [13:0-1-8,Edge], [15:0-4-8,Edge]

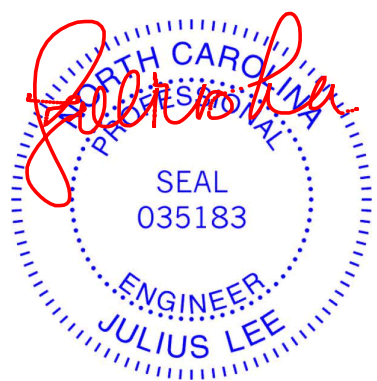
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.78	Vert(LL)	-0.22 13-14	>870	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.64	Vert(CT)	-0.31 13-14	>617	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.04 10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 83 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 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 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 15=0-3-8, 10=Mechanical
Max Grav 15=863(LC 1), 10=869(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2394/0, 3-4=-2394/0, 4-5=-2703/0, 5-6=-2703/0, 6-7=-2360/0, 7-8=-2360/0
BOT CHORD 14-15=0/1464, 13-14=0/2804, 12-13=0/2703, 11-12=0/2703, 10-11=0/1461
WEBS 6-12=-27/377, 2-15=-1643/0, 2-14=0/1054, 4-14=-464/0, 4-13=-291/258, 8-10=-1645/0, 8-11=0/1019, 7-11=-122/282, 6-11=-1012/0

- 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) Refer to girder(s) for truss to truss connections.
 - 4) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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.
 - 7) CAUTION, Do not erect truss backwards.



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 22020376-02	Truss F3CA	Truss Type FLOOR	Qty 5	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224052
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:01 2022 Page 1
ID:Co_LqIUbt4ATaJKEajxSMZzY4vF-1wJrj6ghQWgsK6VtbLSuqf8q8fkVZMwMfpHO1FzY1S0



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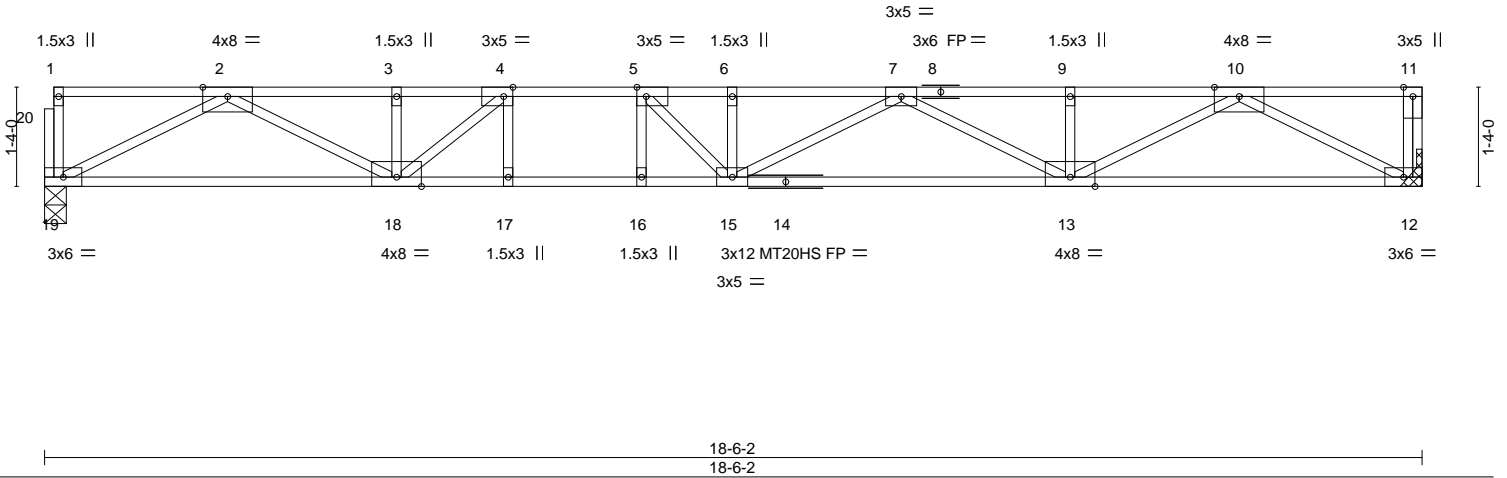


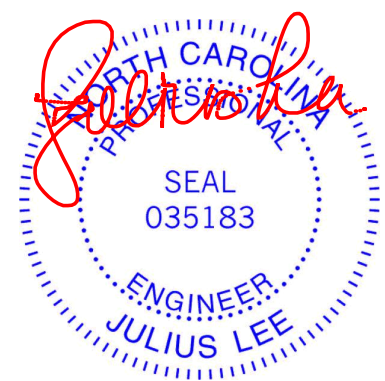
Plate Offsets (X, Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.27 15-16 >799 480	MT20	244/190
TCDL 22.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.46 15-16 >477 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.07 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 96 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* 12-14: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 12=Mechanical
Max Grav 19=1216(LC 1), 12=1223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3481/0, 3-4=-3481/0, 4-5=-4325/0, 5-6=-4674/0, 6-7=-4674/0, 7-9=-3529/0, 9-10=-3529/0
BOT CHORD 18-19=0/2095, 17-18=0/4325, 16-17=0/4325, 15-16=0/4325, 13-15=0/4361, 12-13=0/2094
WEBS 4-17=0/298, 5-16=-324/0, 2-19=-2353/0, 2-18=0/1569, 4-18=-1227/0, 10-12=-2358/0, 10-13=0/1626, 9-13=-274/0, 7-13=-942/0, 7-15=0/433, 6-15=-400/0, 5-15=-88/710

- 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) Refer to girder(s) for truss to truss connections.
 - 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.
 - 7) CAUTION, Do not erect truss backwards.



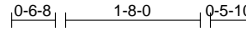
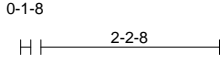
March 24, 2022

<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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3GA	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224053
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:11 2022 Page 1
ID:Co_LqIUb4ATaJKEajxSMZzY4vF-kswdpXoz4axRWeGoBSdEEemZXohAEvw1qyNivMfzY1Rs



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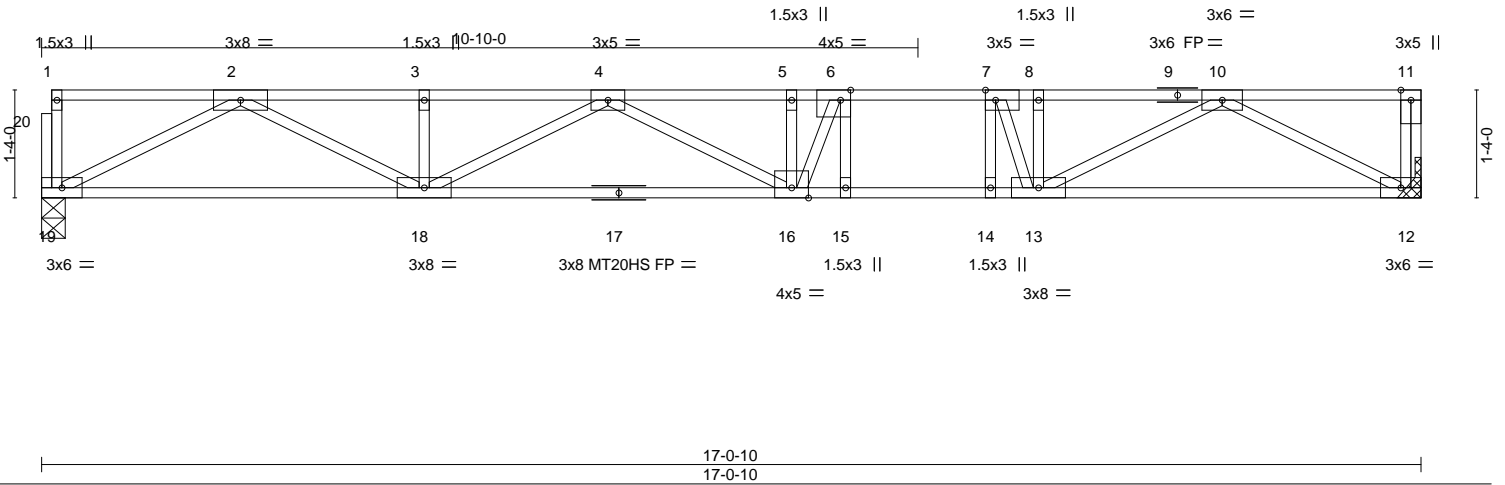


Plate Offsets (X, Y)--	[6:0-1-8,Edge], [7:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.65	Vert(LL) -0.20 15-16 >988 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.81	Vert(CT) -0.31 15-16 >659 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.61	Horz(CT) 0.05 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 90 lb	FT = 20%F, 11%E

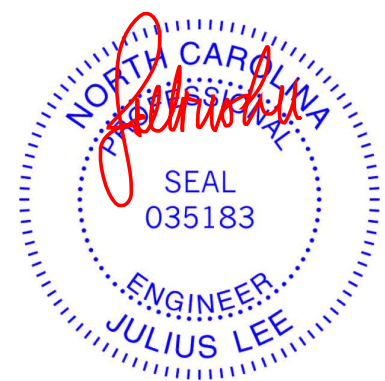
LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 12-17: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 12=Mechanical
Max Grav 19=1017(LC 1), 12=961(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2848/0, 3-4=-2848/0, 4-5=-3464/0, 5-6=-3464/0, 6-7=-3128/0, 7-8=-2711/0, 8-10=-2711/0
BOT CHORD 18-19=0/1725, 16-18=0/3404, 15-16=0/3148, 14-15=0/3128, 13-14=0/3107, 12-13=0/1637
WEBS 6-15=-453/0, 7-14=0/457, 2-19=-1937/0, 2-18=0/1272, 3-18=-253/0, 4-18=-630/0, 5-16=-464/0, 6-16=0/890, 10-12=-1844/0, 10-13=0/1216, 8-13=-60/354, 7-13=-1195/0

- 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.
 - 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.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 12-19=-10, 1-5=-115, 5-11=-100
2) Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 12-19=-10, 1-5=-115, 5-11=-100
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 12-19=-10, 1-5=-115, 5-7=-100, 7-11=-20



March 24, 2022

Continued on page 2

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

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

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224053
22020376-02	F3GA	FLOOR	4	1	Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:11 2022 Page 2
ID:Co_LqlUbt4ATaJKEajxSMZzY4vF-kswdpXoz4axRWeGoBSdEEmZXohAEvw1qyNivMfzY1Rs

LOAD CASE(S) Standard

- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-5=-35, 5-6=-20, 6-11=-100
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-5=-115, 5-7=-100, 7-11=-20
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-5=-35, 5-6=-20, 6-11=-100

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

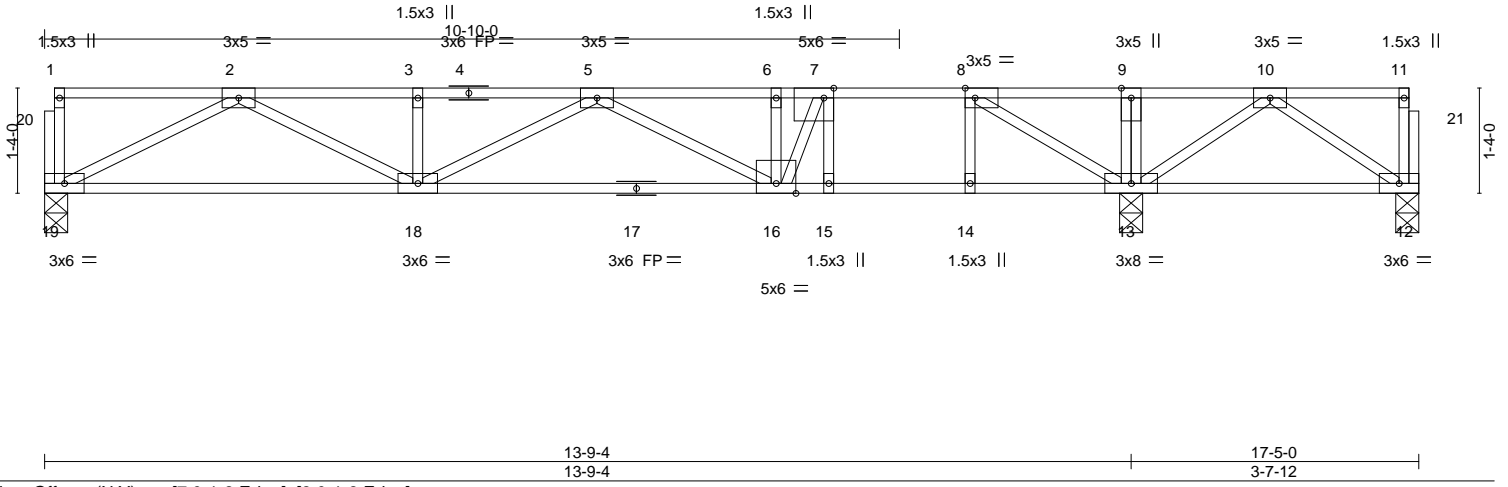
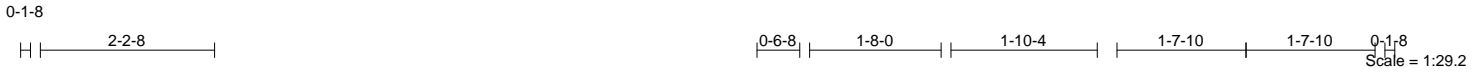


818 Soundside Road
Edenton, NC 27932

Job 22020376-02	Truss F3G	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224054
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:08 2022 Page 1
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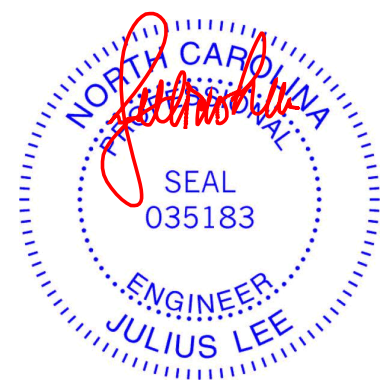
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.89	Vert(LL) -0.20 15-16 >807 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.60	Vert(CT) -0.28 15-16 >590 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 12 n/a n/a		
	Code IRC2018/TPI2014			Weight: 92 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 4-11: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 12-17: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 12=0-3-8, 13=0-3-8
Max Uplift 12=34(LC 3)
Max Grav 19=722(LC 3), 12=161(LC 4), 13=1056(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1849/0, 3-5=-1849/0, 5-6=-1759/0, 6-7=-1759/0, 7-8=-1168/0, 8-9=0/277, 9-10=0/277
BOT CHORD 18-19=0/1184, 16-18=0/2016, 15-16=0/1204, 14-15=0/1168, 13-14=0/1168
WEBS 7-15=-679/0, 8-14=0/379, 2-19=-1328/0, 2-18=0/754, 5-16=-297/2, 6-16=-536/0, 7-16=0/1270, 8-13=-1678/0, 10-13=-364/0

- 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
 - 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.



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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3F	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224055
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:06 2022 Page 1
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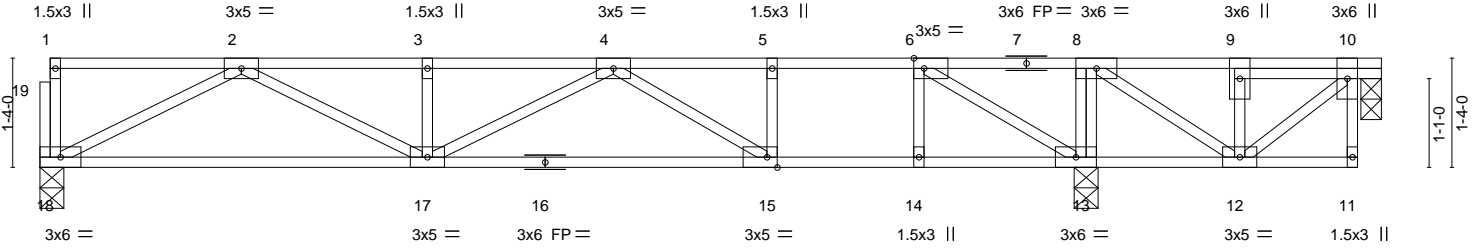
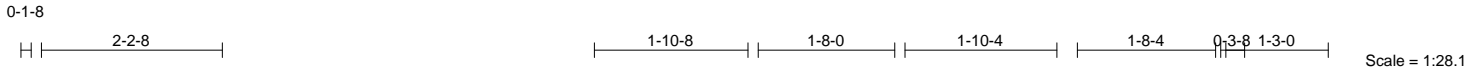


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [15:0-1-8,Edge]	12-11-0 12-11-0	16-1-0 3-2-0	16-4-8 0-3-8
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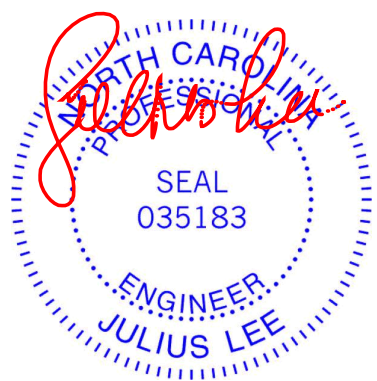
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.86	Vert(LL) -0.27	15-17	>569	480	MT20	244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.81	Vert(CT) -0.37	15-17	>408	360			
BCLL 0.0	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.03	10	n/a	n/a			
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 87 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* 11-16: 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) 18=0-3-8, 10=0-3-0, 13=0-3-8
Max Grav 18=721(LC 1), 10=348(LC 7), 13=721(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1859/0, 3-4=-1859/0, 4-5=-1555/0, 5-6=-1555/0, 6-8=-402/0, 8-9=-384/0, 9-10=-380/0
BOT CHORD 17-18=0/1194, 15-17=0/1990, 14-15=0/1555, 13-14=0/1555, 12-13=0/402
WEBS 10-12=0/494, 6-14=0/296, 2-18=-1339/0, 2-17=0/753, 4-15=-519/0, 6-13=-1478/0

- 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.
 - 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 6) CAUTION, Do not erect truss backwards.



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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3E	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224056 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:04 2022 Page 1
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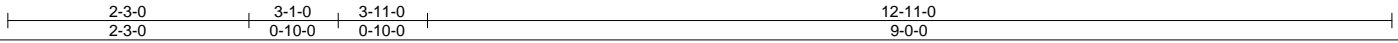
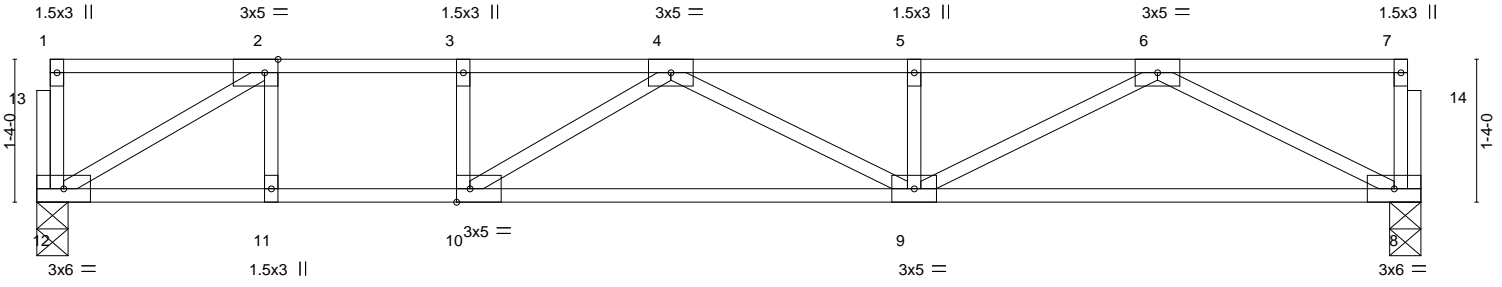
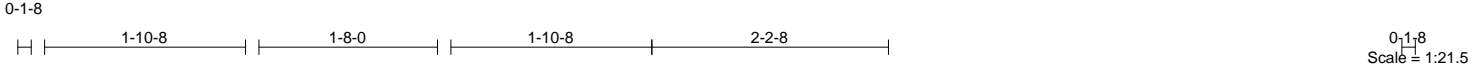


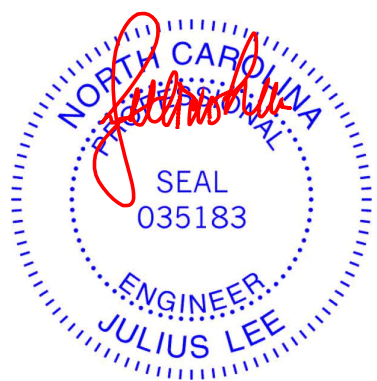
Plate Offsets (X, Y)-- [2:0-1-8,Edge], [10:0-1-8,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.28	9-10	>535	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.69	Vert(CT)	-0.39	9-10	>387		
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.02	8	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 66 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	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) 12=0-3-8, 8=0-3-8
Max Grav 12=690(LC 1), 8=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1309/0, 3-4=-1309/0, 4-5=-1749/0, 5-6=-1749/0
BOT CHORD 11-12=0/1309, 10-11=0/1309, 9-10=0/1819, 8-9=0/1140
WEBS 2-11=0/301, 2-12=-1517/0, 6-8=-1279/0, 6-9=0/689, 4-10=-642/0

- 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 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 22020376-02	Truss L3E	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224057
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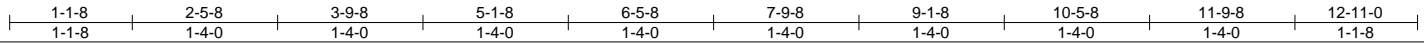
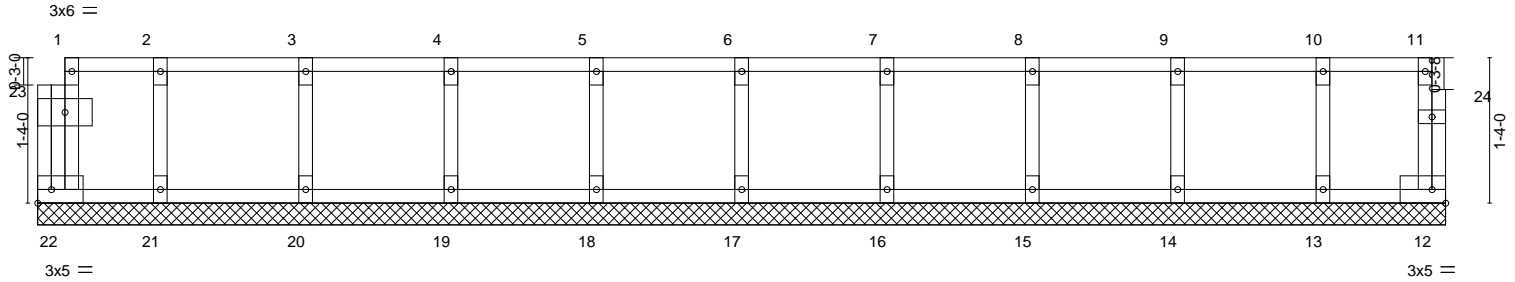
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:36 2022 Page 1
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Q-3-0

0,1,8

Scale = 1:21.1



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	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R							
									Weight: 60 lb	FT = 20%F, 11%E

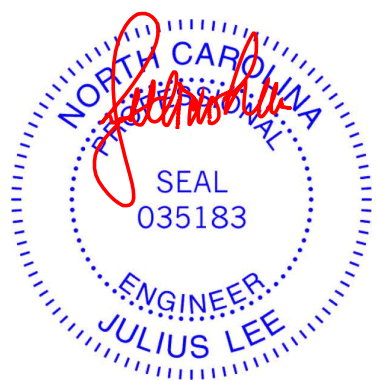
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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 12-11-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 17, 18, 19, 20, 21, 16, 15, 14, 13

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) 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 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 22020376-02	Truss F3C	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224058
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:00 2022 Page 1
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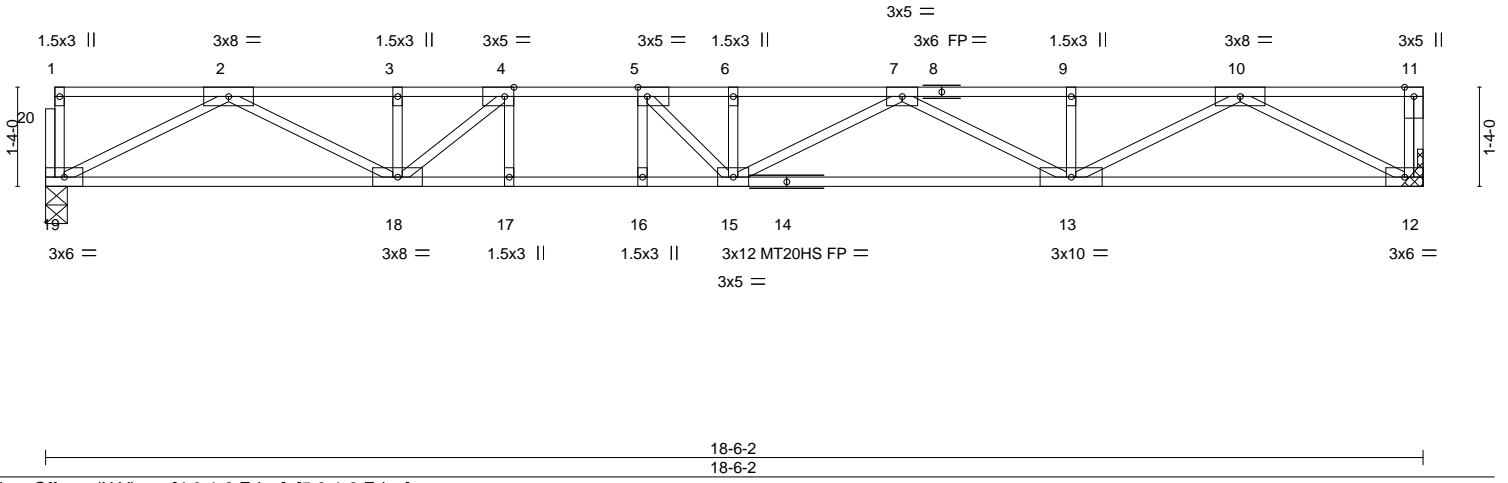


Plate Offsets (X, Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.95	Vert(LL) -0.32 15-16 >678 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT) -0.44 15-16 >493 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 96 lb	FT = 20%F, 11%E

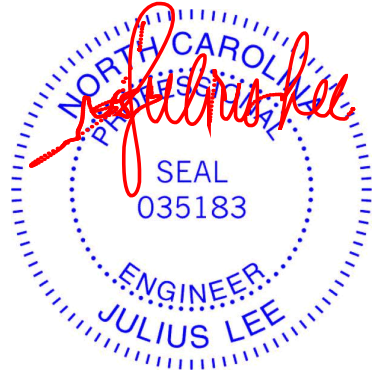
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
12-14: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 19=0-3-8, 12=Mechanical
Max Grav 19=998(LC 1), 12=1004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2859/0, 3-4=-2859/0, 4-5=-3551/0, 5-6=-3834/0, 6-7=-3834/0, 7-9=-2898/0,
9-10=-2898/0
BOT CHORD 18-19=0/1716, 17-18=0/3551, 16-17=0/3551, 15-16=0/3551, 13-15=0/3583, 12-13=0/1718
WEBS 4-17=-0/304, 5-16=-329/11, 2-19=-1928/0, 2-18=0/1294, 4-18=-1031/0, 10-12=-1935/0,
10-13=0/1336, 7-13=-776/0, 7-15=0/370, 6-15=-301/0, 5-15=-178/618

- 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) Refer to girder(s) for truss to truss connections.
 - 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.
 - 7) CAUTION, Do not erect truss backwards.



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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3B	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224059
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:56:59 2022 Page 1
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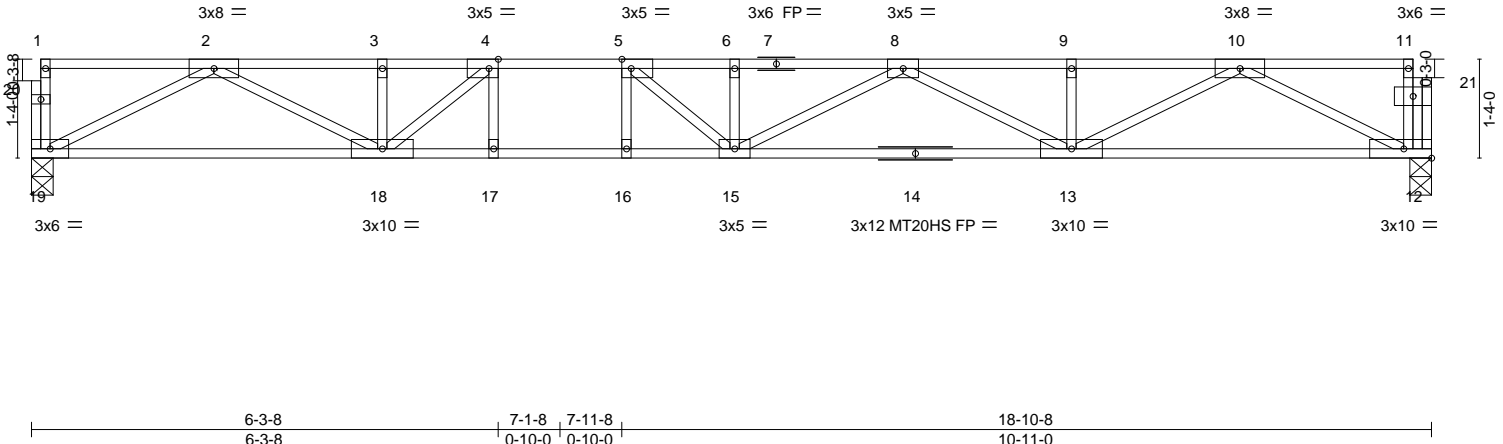


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING - 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.97	Vert(LL) -0.35 15-16 >642 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.48 15-16 >467 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 98 lb	FT = 20%F, 11%E

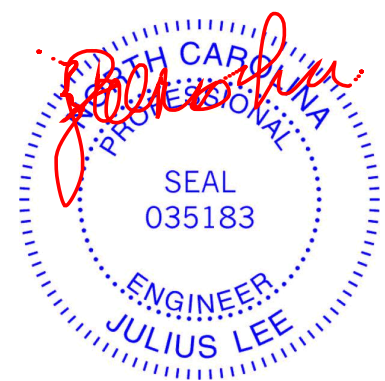
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
12-14: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, 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=1015(LC 1), 12=1008(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2919/0, 3-4=-2919/0, 4-5=-3652/0, 5-6=-3965/0, 6-8=-3965/0, 8-9=-2987/0,
9-10=-2987/0
BOT CHORD 18-19=0/1748, 17-18=0/3652, 16-17=0/3652, 15-16=0/3652, 13-15=0/3690, 12-13=0/1786
WEBS 4-17=0/324, 5-16=-316/8, 2-19=-1963/0, 2-18=0/1327, 4-18=-1082/0, 10-12=-1990/0,
10-13=0/1361, 8-13=-796/0, 8-15=0/371, 6-15=-299/0, 5-15=-183/625

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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.



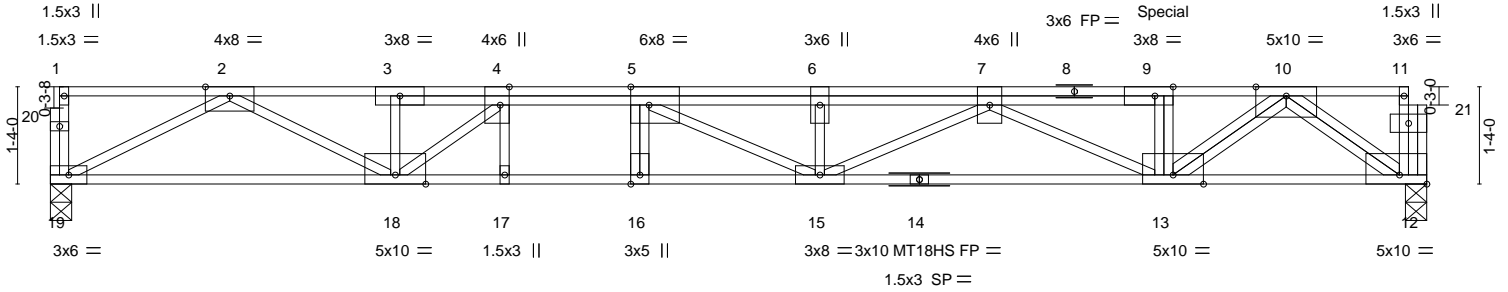
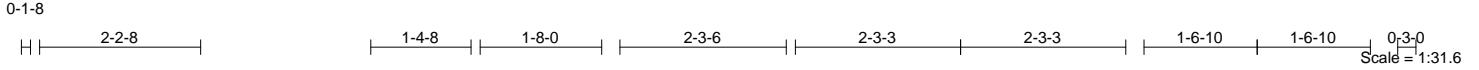
March 24, 2022

<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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3GR	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224060
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:15 2022 Page 1
ID:Co_LqUbt4ATaJKEajxSMZzY4vF-dd98furT7pRt?FaZQliAOcj8ZIWcrgOQt_g7VRzY1Ro



6-3-8	7-1-8	7-11-8	8-4-12	10-7-6	15-3-4	18-10-8
6-3-8	0-10-0	0-10-0	0-5-4	2-2-10	4-7-14	3-7-4

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,Edge], [9:0-3-0,Edge], [12:Edge,0-1-8]

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 0.99	Vert(LL)	-0.39	15-16	>574	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.84	Vert(CT)	-0.54	15-16	>416	MT18HS	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.09	12	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						

Weight: 121 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.
BOT CHORD 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) 19=0-3-8, 12=0-3-8
Max Grav 19=1217(LC 1), 12=1868(LC 1)

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

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

TOP CHORD 2-3=-3694/0, 3-4=-3710/0, 4-5=-5105/0, 5-6=-6013/0, 6-7=-6013/0, 7-9=-5186/0, 9-10=-5034/0

BOT CHORD 18-19=0/2139, 17-18=0/5105, 16-17=0/5105, 15-16=0/5105, 13-15=0/5769, 12-13=0/2579

WEBS 9-13=-1457/0, 10-12=-3132/0, 10-13=0/3018, 2-19=-2404/0, 2-18=0/1761, 3-18=0/387, 4-18=-1876/0, 7-13=-647/0, 7-15=0/272, 6-15=-484/0, 5-15=0/1267

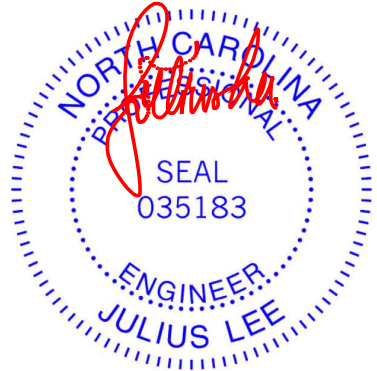
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint 14 = 11%
 - 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 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) 1142 lb down at 15-3-4 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: 9=-1062(F)



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 22020376-02	Truss F3A	Truss Type FLOOR	Qty 3	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224061
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:56:57 2022 Page 1
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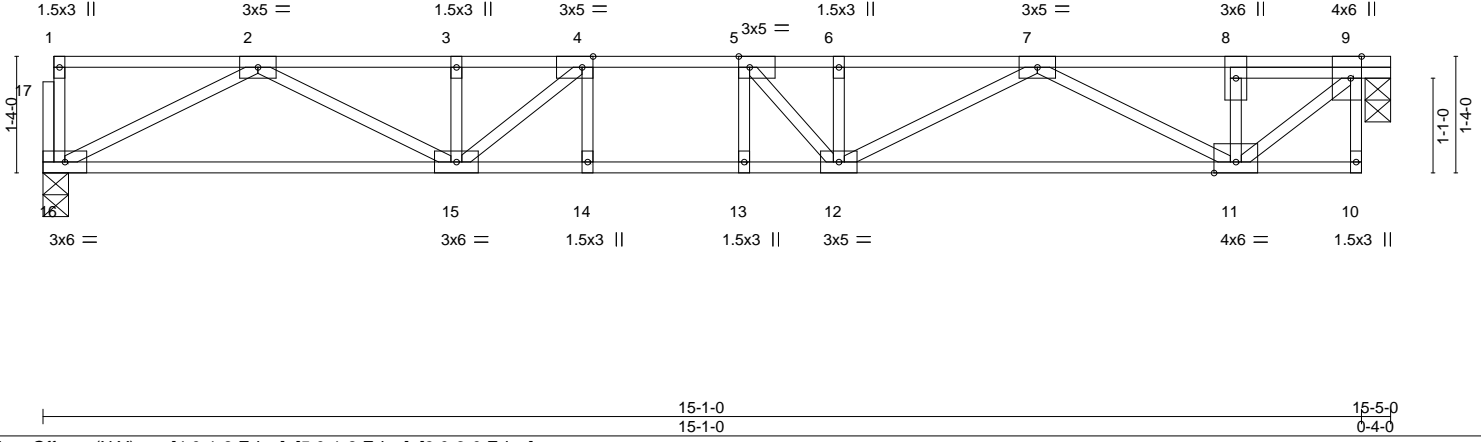
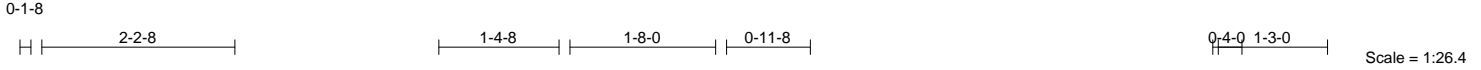
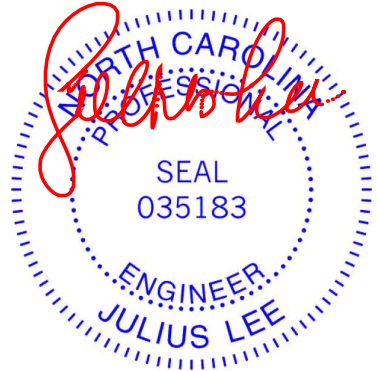


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge], [9:0-3-0,Edge]	15-1-0 15-1-0	15-5-0 0-4-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL 1.00	TC 0.50	Vert(LL) -0.15 13 >999 480
TCDL 10.0	Lumber DOL 1.00	BC 0.94	Vert(CT) -0.20 13 >888 360
BCLL 0.0	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.01 9 n/a n/a
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S	
			PLATES MT20
			GRIP 244/190
			Weight: 82 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, Except: 2-2-0 oc bracing: 13-14.
WEBS 2x4 SP No.3(flat)	
REACTIONS. (size) 16=0-3-8, 9=0-3-8 Max Grav 16=813(LC 1), 9=819(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2180/0, 3-4=-2180/0, 4-5=-2485/0, 5-6=-2448/0, 6-7=-2448/0, 7-8=-939/0, 8-9=-936/0	
BOT CHORD 15-16=0/1362, 14-15=0/2485, 13-14=0/2485, 12-13=0/2485, 11-12=0/1889	
WEBS 9-11=0/1218, 2-16=-1529/0, 2-15=0/927, 4-15=-583/0, 7-11=-1080/0, 7-12=0/633, 6-12=-250/31, 5-12=-377/213	

- 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.
 - 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 6) CAUTION, Do not erect truss backwards.



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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020376-02	Truss F3GRA	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224062
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:22 2022 Page 1

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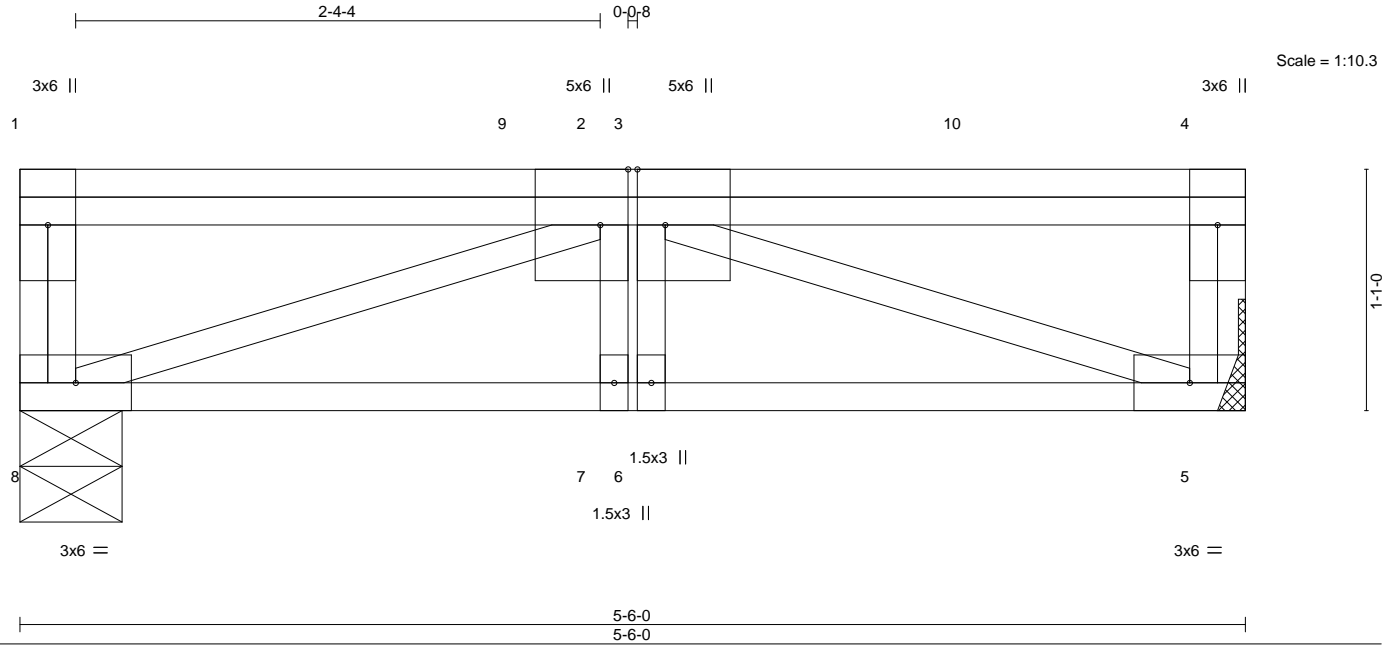


Plate Offsets (X, Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

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 0.76	Vert(LL)	-0.04	6	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.69	Vert(CT)	-0.05	6	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.02	5	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S							
									Weight: 38 lb	FT = 20%F, 11%E

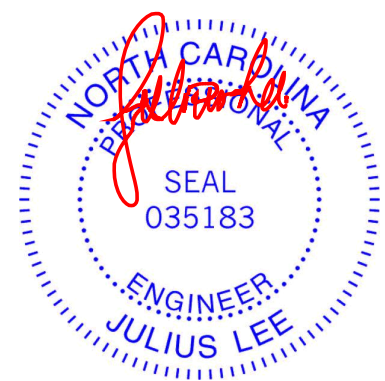
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=0-5-8, 5=Mechanical
Max Grav 8=854(LC 1), 5=1162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-462/0, 2-3=-1951/0
BOT CHORD 7-8=0/1951, 6-7=0/1951, 5-6=0/1951
WEBS 3-5=-2069/0, 2-8=-2069/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
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.

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: 9=-719 10=-719



March 24, 2022

Job 22020376-02	Truss F3	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224063
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:56:56 2022 Page 1
ID:Co_LqIUbt4ATaJKEajxSMZzY4vF-gzWYgOdZcz2aDKdwposj7cRzKe1MuAUdVXZdL1zY1S5



0-1-8
Scale = 1:25.8

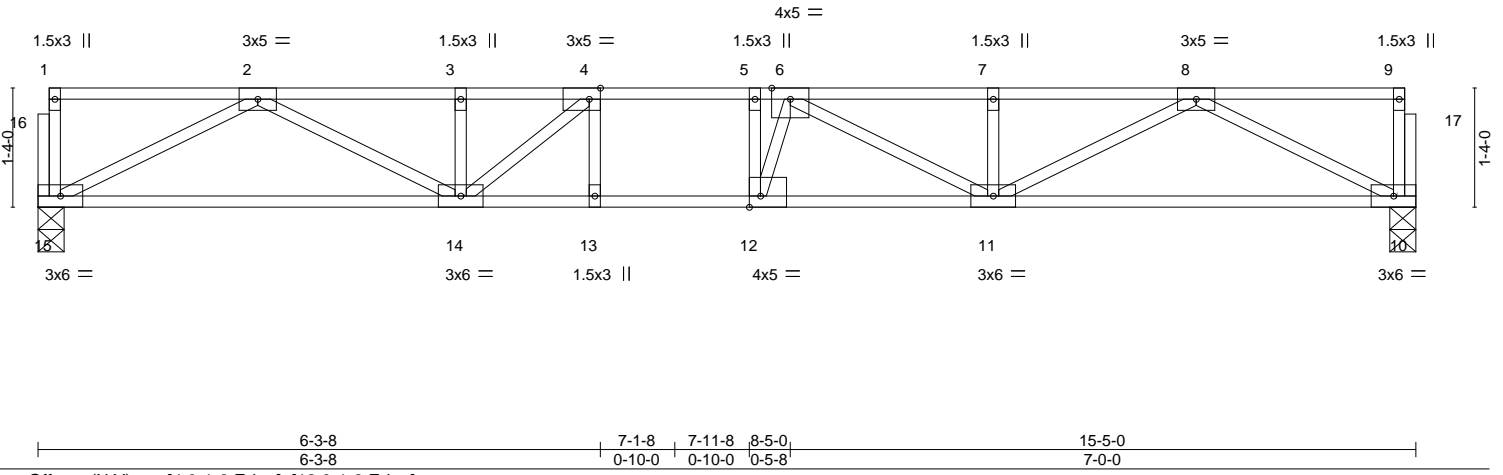


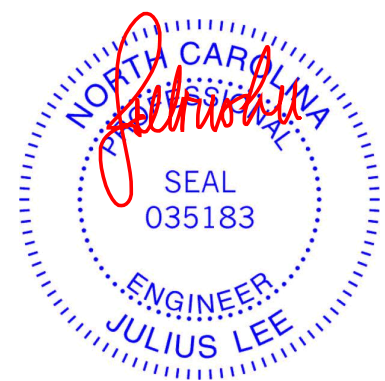
Plate Offsets (X,Y)--	[4:0-1-8,Edge], [12:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.67	Vert(LL) -0.17 11-12 >999 480	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.23 11-12 >801 360				
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.05 10 n/a n/a				
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					
						Weight: 80 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) 15=0-3-8, 10=0-3-8
Max Grav 15=828(LC 1), 10=828(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2235/0, 3-4=-2235/0, 4-5=-2572/0, 5-6=-2572/0, 6-7=-2257/0, 7-8=-2257/0
BOT CHORD 14-15=0/1391, 13-14=0/2572, 12-13=0/2572, 11-12=0/2601, 10-11=0/1389
WEBS 5-12=-298/295, 2-15=-1561/0, 2-14=0/956, 4-14=-622/0, 8-10=-1559/0, 8-11=0/983, 6-11=-464/0, 6-12=-384/372

- 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 24, 2022

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Job 22020376-02	Truss L3	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot10-Ph2 S2-2913 Elev 'B' Permit-Floor Truss T27224064 Job Reference (optional)
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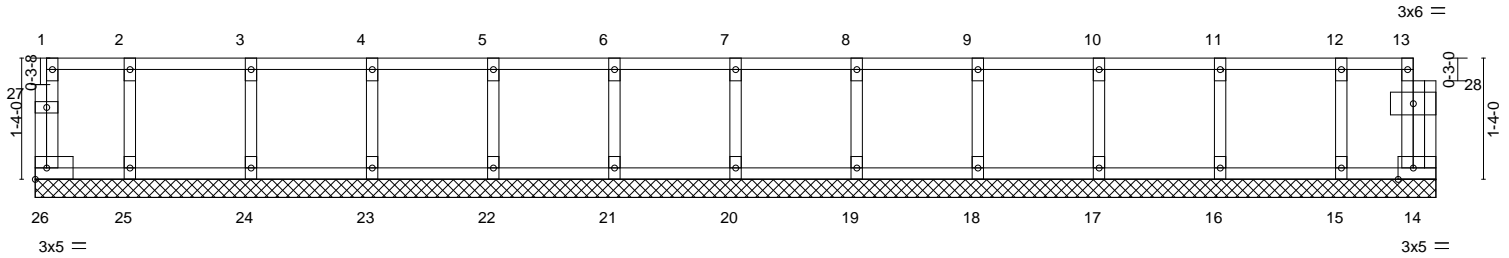
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 13:57:30 2022 Page 1
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0-1-8

0-3-0

Scale = 1:25.4



1-0-8	2-4-8	3-8-8	5-0-8	6-4-8	7-8-8	9-0-8	10-4-8	11-8-8	13-0-8	14-4-8	15-5-0
1-0-8	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	1-0-8
Plate Offsets (X,Y)--		[14:0-2-0,Edge]									

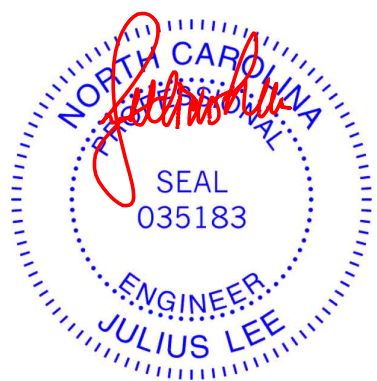
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 70 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 15-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 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-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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.

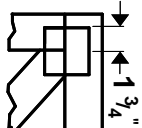


March 24, 2022

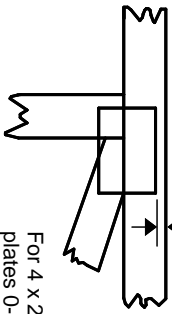
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

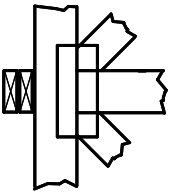
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



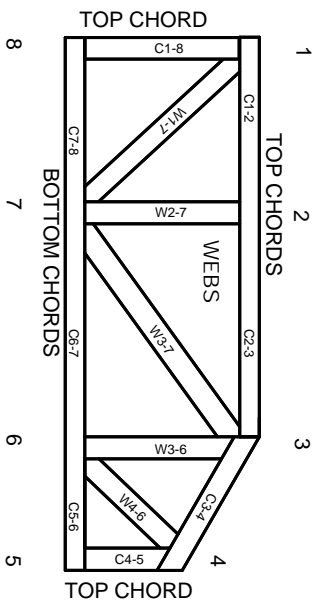
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.