

Trenco  
818 Soundside Rd  
Edenton, NC 27932

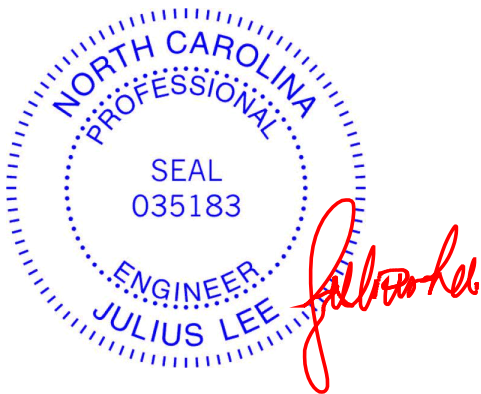
Re: 21030655-01  
Cameron Woods Lot 15 - 2604 Elev A-Roof Truss

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

Pages or sheets covered by this seal: T24493416 thru T24493453

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



June 28, 2021

---

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 21030655-01	Truss A1G	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493416 Job Reference (optional)
--------------------	--------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:14:57 2021 Page 2  
ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-JVv9wy7Ctbt0AcIP16u22AQ\_IQ69uwGIQF8EOQz2hWi

**NOTES-**

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

 **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 21030655-01	Truss A1GR	Truss Type ROOF TRUSS	Qty 1	Ply 3	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493418
--------------------	---------------	--------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:04 2021 Page 1

ID:Co\_LqjUbt4ATaJkEajxSMZzY4vF-crfoOLDbDII1Vhnlx4WhqeD7ZFJM1yGK1rK68Wz2hWb

1-9-0	6-1-12	9-3-12	11-1-11	17-11-8	18-7-8	24-7-0	30-6-8	31-10-8	38-0-4	43-0-4	49-2-0
1-9-0	6-1-12	3-2-0	1-9-15	6-9-13	0-8-0	5-11-8	5-11-8	1-4-0	6-1-12	5-0-0	6-1-12

Scale = 1:92.0

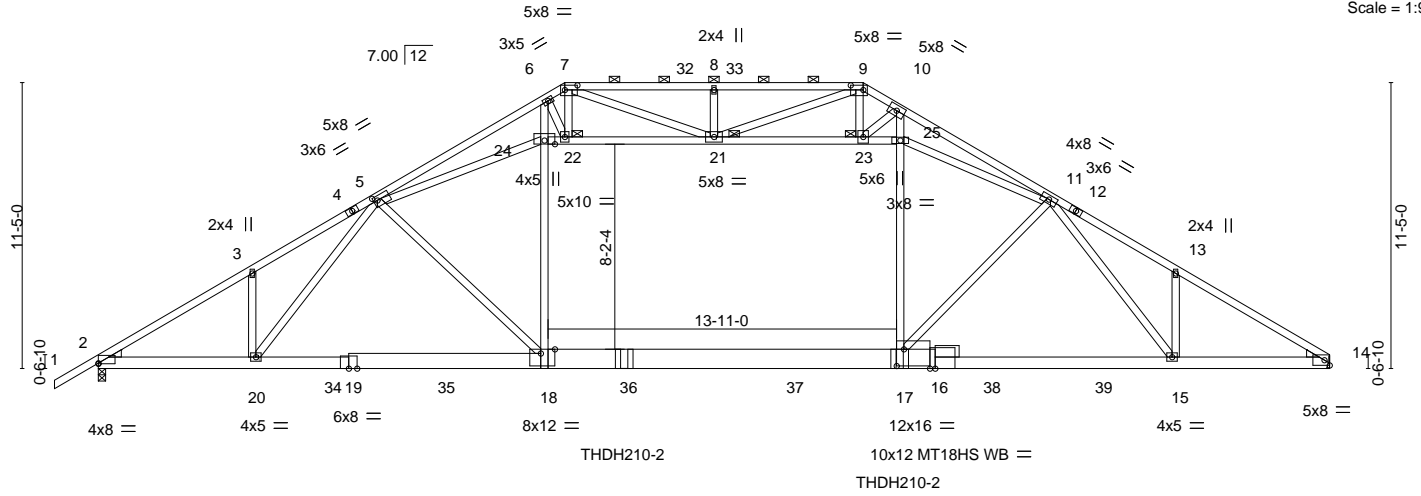


Plate Offsets (X,Y)--	[2:0-0,0,0-5], [5:0-1,13,0-2,0], [7:0-6,0,0-2,4], [9:0-6,0,0-2,4], [16:0-2,8,0,0-0], [17:0-3,8,0,8-0], [18:0-6,12,Edge], [24:0-5,0,0-1,12]
-----------------------	--

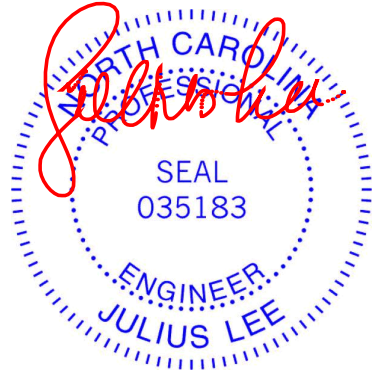
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.58 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-1.13 17-18	>520	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	0.15 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS	Attic	-0.35 17-18	487	360		Weight: 1182 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 7-9,1-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 16-18: 2x10 SP 2400F 2.0E, 18-19: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-18,10-17,24-25,5-24: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 21, 22, 23
OTHERS 2x6 SP No.2	
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 14=Mechanical  
 Max Horz 2=199(LC 35)  
 Max Grav 2=8209(LC 2), 14=8971(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-14588/0, 3-5=-14507/0, 5-6=-5038/0, 6-7=-4270/0, 7-8=-5606/0, 8-9=-5606/0, 9-10=-7935/0, 10-11=-14109/0, 11-13=-16084/0, 13-14=-16179/0  
 BOT CHORD 2-20=0/12509, 18-20=0/12915, 17-18=0/14611, 15-17=0/14298, 14-15=0/13877  
 WEBS 18-24=0/4715, 6-24=-413/1144, 17-25=0/8109, 10-25=0/7200, 22-24=-11010/0, 21-22=-11257/0, 21-23=-7538/0, 23-25=-2962/0, 8-21=-372/112, 5-18=0/2646, 5-20=-850/10, 11-17=-137751, 11-15=-908/0, 7-22=0/1430, 9-23=0/4371, 7-21=0/2602, 6-22=-1314/240, 9-21=-1807/0, 10-23=-6809/0, 5-24=-11551/0, 11-25=-3288/0

- NOTES-**
- 3-ply truss to be connected together as follows:  
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-7-0 oc.  
 Bottom chords connected with WS45 as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 3 rows staggered at 0-5-0 oc.  
 Web connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc, Except member 17-10 2x4 - 1 row at 0-6-0 oc, member 24-25 2x4 - 1 row at 0-7-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - The Fabrication Tolerance at joint 18 = 12%
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



June 28, 2021

**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 21030655-01	Truss A1GR	Truss Type ROOF TRUSS	Qty 1	Ply <b>3</b>	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493418 Job Reference (optional)
--------------------	---------------	--------------------------	----------	-----------------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:05 2021 Page 2  
ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-41DAbhDD\_2tt7rMxVo1wNsmJJeemPWTFV4fgyz2hWa

**NOTES-**

- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (5.0 psf) on member(s). 22-24, 21-22, 21-23, 23-25; Wall dead load (7.0psf) on member(s).18-24, 17-25
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18
- 12) Refer to girder(s) for truss to truss connections.
- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use MiTek THDH210-2 (With 46-16d nails into Girder & 12-16d nails into Truss) or equivalent at 21-0-0 from the left end to connect truss(es) to back face of bottom chord , skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 16) Use MiTek THDH210-2 (With 46-16d nails into Girder & 12-16d nails into Truss) or equivalent at 32-0-0 from the left end to connect truss(es) to back face of bottom chord , skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 939 lb down and 4 lb up at 27-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 19) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-60, 7-9=-60, 9-14=-60, 18-26=-20, 17-18=-30, 17-29=-20, 24-25=-10  
Drag: 18-24=-14, 17-25=-14  
Concentrated Loads (lb)  
Vert: 17=-4763(B) 36=-5031(B) 37=-550(B)

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

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



818 Soundside Road  
Edenton, NC 27932

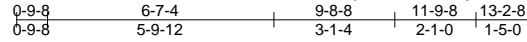


Job 21030655-01	Truss F1GR	Truss Type GABLE	Qty 1	Ply 2	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493419
--------------------	---------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:10 2021 Page 1

ID:Co\_LqIUb44TajKEajxSMZzY4vF-R?03fPHMpbWADcFuILd54vT7SfTdReBDPnnQLAZ2hWV



Scale = 1:59.2

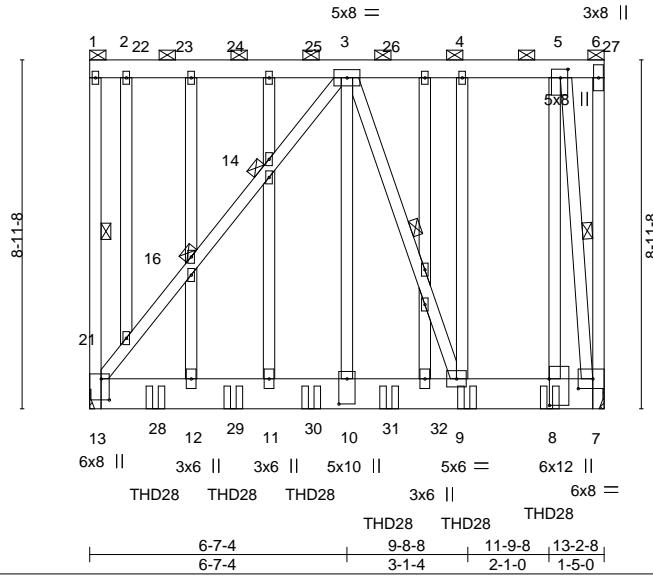


Plate Offsets (X,Y)-- [5:0-2-10,0-2-4], [7:0-4-8,0-3-0], [8:0-8-3,0-0-2], [10:0-7-12,0-2-8], [13:0-6-8,0-2-8]

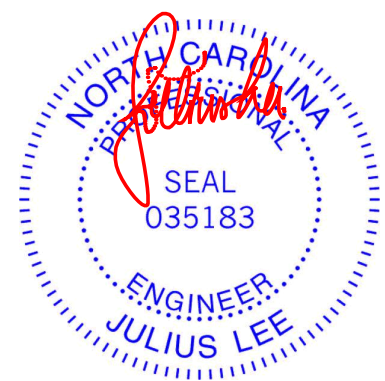
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.10	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.23	9-10	>671		
BCLL 0.0 *	Rep Stress Incr	NO	WB 1.00	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 446 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-13, 3-9, 5-7
3-10,5-8,4-9,5-7: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 1, 6, 14, 16
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 13=Mechanical, 7=Mechanical  
Max Grav 13=5631(LC 2), 7=6776(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-4=-1099/0, 4-5=-1099/0, 6-7=0/979  
BOT CHORD 12-13=0/2626, 11-12=0/2626, 10-11=0/2626, 9-10=0/2626, 8-9=0/1099, 7-8=0/1001  
WEBS 13-21=-4703/0, 16-21=-4212/0, 14-16=-4200/0, 3-14=-4176/0, 3-10=0/5431, 3-9=-4572/0, 5-8=0/5578, 4-9=0/1202, 5-7=-8254/0, 2-21=-605/52

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide metal plate or equivalent at bearing(s) 13, 7 to support reaction shown.
  - 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, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use MiTek THD28 (With 28-16d nails into Girder & 16-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-1-8 oc max. starting at the left end to 11-9-12 to connect truss(es) to back face of bottom chord.



June 28, 2021

**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	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss
21030655-01	F1GR	GABLE	1	2	T24493419

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:10 2021 Page 2

ID:Co\_LqlUbt4ATaJKEajxSMZzy4vF-R?03fPHMpbWADcFuLd54vT7SfTdReBDPnnQLAZ2hWV

**NOTES-**

- 16) Fill all nail holes where hanger is in contact with lumber.  
 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 440 lb down and 26 lb up at 1-8-4, 440 lb down and 26 lb up at 3-8-4, 440 lb down and 26 lb up at 5-8-4, 440 lb down and 26 lb up at 7-8-4, and 440 lb down and 26 lb up at 9-8-4, and 440 lb down and 26 lb up at 11-9-12 on top chord, and 300 lb down and 30 lb up at 9-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-6=60, 13-32=-20, 7-32=-320(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-1364(F=-300, B=-1064) 8=-1064(B) 5=-378 4=-378 23=-378 24=-378 25=-378 26=-378 28=-1064(B) 29=-1064(B) 30=-1064(B) 31=-1064(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-6=50, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-1445(F=-263, B=-1183) 8=-1183(B) 5=-440 4=-440 23=-440 24=-440 25=-440 26=-440 28=-1190(B) 29=-1190(B) 30=-1190(B) 31=-1190(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-6=20, 13-32=-40, 7-32=-340(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-1060(F=-225, B=-835) 8=-835(B) 5=-309 4=-309 23=-309 24=-309 25=-309 26=-309 28=-835(B) 29=-835(B) 30=-835(B) 31=-835(B)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-27=20, 6-27=7, 13-32=-12, 7-32=-312(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-462(F=30, B=-492) 8=-492(B) 5=-13 4=-14 23=-14 24=-14 25=-14 26=-14 28=-492(B) 29=-492(B) 30=-492(B) 31=-492(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-22=7, 6-22=20, 13-32=-12, 7-32=-312(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-462(F=30, B=-492) 8=-492(B) 5=-14 4=-14 23=-14 24=-14 25=-14 26=-14 28=-492(B) 29=-492(B) 30=-492(B) 31=-492(B)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-651(F=-167, B=-484) 8=-484(B) 5=26 4=26 23=26 24=26 25=26 26=26 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-651(F=-167, B=-484) 8=-484(B) 5=26 4=26 23=26 24=26 25=26 26=26 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=13, 13-32=-12, 7-32=-312(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-490(F=2, B=-492) 8=-492(B) 5=-7 4=-7 23=-7 24=-7 25=-7 26=-7 28=-492(B) 29=-492(B) 30=-492(B) 31=-492(B)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=4, 13-32=-12, 7-32=-312(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-524(F=-31, B=-492) 8=-492(B) 5=2 4=2 23=2 24=2 25=2 26=2 28=-492(B) 29=-492(B) 30=-492(B) 31=-492(B)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-651(F=-167, B=-484) 8=-484(B) 5=26 4=26 23=26 24=26 25=26 26=26 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-651(F=-167, B=-484) 8=-484(B) 5=26 4=26 23=26 24=26 25=26 26=26 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 12) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-6=-20, 13-32=-40, 9-32=-340(F=-300), 8-9=-360(F=-300), 7-8=-340(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-1096(F=-150, B=-946) 8=-946(B) 5=-342 4=-342 23=-342 24=-342 25=-342 26=-342 28=-955(B) 29=-955(B) 30=-955(B) 31=-955(B)
- 13) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)  
 Concentrated Loads (lb)  
 Vert: 9=-760(F=-275, B=-484) 8=-484(B) 5=-8 4=-8 23=-8 24=-8 25=-8 26=-8 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)

Continued on page 3

**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	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss
21030655-01	F1GR	GABLE	1	2	T24493419
					Job Reference (optional)

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:10 2021 Page 3

ID:Co\_LqlUbt4ATaJKEajxSMZy4vF-R?03fPHMpbWADcFuILd54vT7SfTDRBDPnnQLAz2hVW

**LOAD CASE(S)** Standard

- 14) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-760(F=-275, B=-484) 8=-484(B) 5=-8 4=-8 23=-8 24=-8 25=-8 26=-8 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-760(F=-275, B=-484) 8=-484(B) 5=-8 4=-8 23=-8 24=-8 25=-8 26=-8 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-760(F=-275, B=-484) 8=-484(B) 5=-8 4=-8 23=-8 24=-8 25=-8 26=-8 28=-484(B) 29=-484(B) 30=-484(B) 31=-484(B)
- 17) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-6=-12, 13-32=-12, 7-32=-312(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-748(F=-90, B=-658) 8=-658(B) 5=-207 4=-207 23=-207 24=-207 25=-207 26=-207 28=-658(B) 29=-658(B) 30=-658(B) 31=-658(B)
- 18) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-6=-12, 13-32=-12, 7-32=-312(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-748(F=-90, B=-658) 8=-658(B) 5=-207 4=-207 23=-207 24=-207 25=-207 26=-207 28=-658(B) 29=-658(B) 30=-658(B) 31=-658(B)
- 19) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-27=20, 6-27=7, 13-32=-12, 7-32=-312(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-750(F=30, B=-780) 8=-780(B) 5=-236 4=-236 23=-236 24=-236 25=-236 26=-236 28=-780(B) 29=-780(B) 30=-780(B) 31=-780(B)
- 20) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-22=7, 6-22=20, 13-32=-12, 7-32=-312(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-750(F=30, B=-780) 8=-780(B) 5=-236 4=-236 23=-236 24=-236 25=-236 26=-236 28=-780(B) 29=-780(B) 30=-780(B) 31=-780(B)
- 21) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-939(F=-167, B=-772) 8=-772(B) 5=-219 4=-219 23=-219 24=-219 25=-219 26=-219 28=-772(B) 29=-772(B) 30=-772(B) 31=-772(B)
- 22) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-939(F=-167, B=-772) 8=-772(B) 5=-219 4=-219 23=-219 24=-219 25=-219 26=-219 28=-772(B) 29=-772(B) 30=-772(B) 31=-772(B)
- 23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=13, 13-32=-12, 7-32=-312(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-778(F=2, B=-780) 8=-780(B) 5=-236 4=-236 23=-236 24=-236 25=-236 26=-236 28=-780(B) 29=-780(B)  
30=-780(B) 31=-780(B)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=4, 13-32=-12, 7-32=-312(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-812(F=-31, B=-780) 8=-780(B) 5=-236 4=-236 23=-236 24=-236 25=-236 26=-236 28=-780(B) 29=-780(B)  
30=-780(B) 31=-780(B)
- 25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-939(F=-167, B=-772) 8=-772(B) 5=-219 4=-219 23=-219 24=-219 25=-219 26=-219 28=-772(B) 29=-772(B)  
30=-772(B) 31=-772(B)
- 26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-21, 13-32=-20, 7-32=-320(F=-300)  
Concentrated Loads (lb)  
Vert: 9=-939(F=-167, B=-772) 8=-772(B) 5=-219 4=-219 23=-219 24=-219 25=-219 26=-219 28=-772(B) 29=-772(B)  
30=-772(B) 31=-772(B)
- 27) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)

Continued on page 4

**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 21030655-01	Truss F1GR	Truss Type GABLE	Qty 1	Ply 2	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493419 Job Reference (optional)
--------------------	---------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:10 2021 Page 4

ID:Co\_LqlUbt4ATaJKEajxSMZy4vF-R?03fPHMpbWADcFuLd54vT7SfTdReBDPnnQLAz2hWV

**LOAD CASE(S)** Standard

- Concentrated Loads (lb)  
Vert: 9=-1411(F=-275, B=-1136) 8=-1136(B) 5=-388 4=-388 23=-388 24=-388 25=-388 26=-388 28=-1143(B) 29=-1143(B) 30=-1143(B) 31=-1143(B)
- 28) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)
- Concentrated Loads (lb)  
Vert: 9=-1411(F=-275, B=-1136) 8=-1136(B) 5=-388 4=-388 23=-388 24=-388 25=-388 26=-388 28=-1143(B) 29=-1143(B) 30=-1143(B) 31=-1143(B)
- 29) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)
- Concentrated Loads (lb)  
Vert: 9=-1411(F=-275, B=-1136) 8=-1136(B) 5=-388 4=-388 23=-388 24=-388 25=-388 26=-388 28=-1143(B) 29=-1143(B) 30=-1143(B) 31=-1143(B)
- 30) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-51, 13-32=-35, 9-32=-335(F=-300), 8-9=-350(F=-300), 7-8=-335(F=-300)
- Concentrated Loads (lb)  
Vert: 9=-1411(F=-275, B=-1136) 8=-1136(B) 5=-388 4=-388 23=-388 24=-388 25=-388 26=-388 28=-1143(B) 29=-1143(B) 30=-1143(B) 31=-1143(B)

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

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

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

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



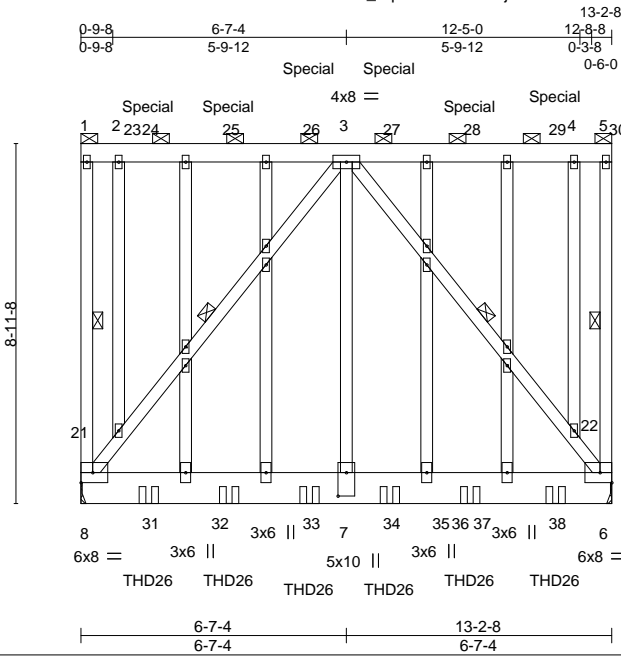
818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss F1GRA	Truss Type GABLE	Qty 1	Ply 2	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493420
--------------------	----------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:12 2021 Page 1

ID:Co\_LqlUbt4ATaJKEajxSMZzy4vF-NO8p44JclCmuTwOHpmfZ9KYYkTD5vawVs5GXQ2z2hWT



Scale = 1:57.3

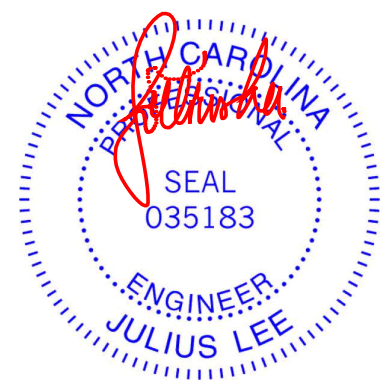
Plate Offsets (X,Y)--	[7:0-7-0,0-2-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.03 7-8 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.08 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 425 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 1-8, 5-6, 3-8, 3-6
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 8=Mechanical, 6=Mechanical  
Max Grav 8=5132(LC 2), 6=5303(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD 7-8=0/2397, 6-7=0/2397  
WEBS 8-21=4363/0, 3-21=3824/0, 3-7=0/4133, 3-22=3823/0, 6-22=4362/0, 2-21=664/0, 4-22=663/0

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-7-0 oc, Except member 3-7 2x4 - 1 row at 0-9-0 oc, member 21-2 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-1-8 oc max. starting at 1-8-4 from the left end to 11-9-12 to connect truss(es) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.



June 28, 2021

**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	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss
21030655-01	F1GRA	GABLE	1	2	T24493420

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:12 2021 Page 2

ID:Co\_LqlUbt4ATaJKEajxSMZZY4vF-NO8p44JclCmuTwOHpmfZ9KYYkTD5vawVs5GXQ2z2hWT

**NOTES-**

- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 437 lb down and 21 lb up at 1-8-4, 437 lb down and 21 lb up at 3-8-4, 437 lb down and 21 lb up at 5-8-4, 437 lb down and 21 lb up at 7-8-4, and 437 lb down and 21 lb up at 9-8-4, and 437 lb down and 21 lb up at 11-9-12 on top chord, and 300 lb down and 30 lb up at 9-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=60, 8-35=220(B=200), 6-35=320(B=300)  
Concentrated Loads (lb)  
Vert: 24=-378(B) 25=-378(B) 26=-378(B) 27=-378(B) 28=-378(B) 29=-378(B) 31=-656(F) 32=-656(F) 33=-478(F) 34=-459(F) 36=-759(F=459, B=300) 38=-459(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=50, 8-32=235(B=200), 32-35=250(B=200), 35-37=350(B=300), 6-37=335(B=300)  
Concentrated Loads (lb)  
Vert: 24=-437(B) 25=-437(B) 26=-437(B) 27=-437(B) 28=-437(B) 29=-437(B) 31=-708(F) 32=-697(F) 33=-497(F) 34=-478(F) 36=-745(F=483, B=263) 38=-492(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=20, 8-35=240(B=200), 6-35=340(B=300)  
Concentrated Loads (lb)  
Vert: 24=-309(B) 25=-309(B) 26=-309(B) 27=-309(B) 28=-309(B) 29=-309(B) 31=-467(F) 32=-467(F) 33=-325(F) 34=-319(F) 36=-544(F=319, B=225) 38=-319(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-30=20, 5-30=7, 8-35=212(B=200), 6-35=312(B=300)  
Concentrated Loads (lb)  
Vert: 24=-20(B) 25=-20(B) 26=-20(B) 27=-20(B) 28=-20(B) 29=-18(B) 31=91(F) 32=91(F) 33=116(F) 34=106(F) 36=136(F=106, B=30) 38=106(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-23=7, 5-23=20, 8-35=212(B=200), 6-35=312(B=300)  
Concentrated Loads (lb)  
Vert: 24=-20(B) 25=-20(B) 26=-20(B) 27=-20(B) 28=-20(B) 29=-20(B) 31=91(F) 32=91(F) 33=116(F) 34=106(F) 36=136(F=106, B=30) 38=106(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=220(B=200), 6-35=320(B=300)  
Concentrated Loads (lb)  
Vert: 24=21(B) 25=21(B) 26=21(B) 27=21(B) 28=21(B) 29=21(B) 31=99(F) 32=99(F) 33=124(F) 34=114(F) 36=-53(F=114, B=-167) 38=114(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=220(B=200), 6-35=320(B=300)  
Concentrated Loads (lb)  
Vert: 24=21(B) 25=21(B) 26=21(B) 27=21(B) 28=21(B) 29=21(B) 31=99(F) 32=99(F) 33=124(F) 34=114(F) 36=-53(F=114, B=-167) 38=114(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=13, 8-35=212(B=200), 6-35=312(B=300)  
Concentrated Loads (lb)  
Vert: 24=-12(B) 25=-12(B) 26=-12(B) 27=-12(B) 28=-12(B) 29=-12(B) 31=91(F) 32=91(F) 33=116(F) 34=106(F) 36=108(F=106, B=2) 38=106(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=4, 8-35=212(B=200), 6-35=312(B=300)  
Concentrated Loads (lb)  
Vert: 24=-3(B) 25=-3(B) 26=-3(B) 27=-3(B) 28=-3(B) 29=-3(B) 31=91(F) 32=91(F) 33=116(F) 34=106(F) 36=74(F=106, B=-31) 38=106(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=220(B=200), 6-35=320(B=300)  
Concentrated Loads (lb)  
Vert: 24=21(B) 25=21(B) 26=21(B) 27=21(B) 28=21(B) 29=21(B) 31=99(F) 32=99(F) 33=124(F) 34=114(F) 36=-53(F=114, B=-167) 38=114(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=220(B=200), 6-35=320(B=300)  
Concentrated Loads (lb)  
Vert: 24=21(B) 25=21(B) 26=21(B) 27=21(B) 28=21(B) 29=21(B) 31=99(F) 32=99(F) 33=124(F) 34=114(F) 36=-53(F=114, B=-167) 38=114(F)
- 12) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-20, 8-32=240(B=200), 32-35=260(B=200), 35-37=360(B=300), 6-37=340(B=300)  
Concentrated Loads (lb)  
Vert: 24=-338(B) 25=-338(B) 26=-338(B) 27=-338(B) 28=-338(B) 29=-338(B) 31=-500(F) 32=-486(F) 33=-335(F) 34=-325(F) 36=-481(F=331, B=150) 38=-344(F)
- 13) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-51, 8-32=235(B=200), 32-35=250(B=200), 35-37=350(B=300), 6-37=335(B=300)  
Concentrated Loads (lb)  
Vert: 24=-12(B) 25=-12(B) 26=-12(B) 27=-12(B) 28=-12(B) 29=-12(B) 31=28(F) 32=28(F) 33=61(F) 34=54(F) 36=-221(F=54, B=-275) 38=54(F)

Continued on page 3

**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	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss
21030655-01	F1GRA	GABLE	1	2	T24493420

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:12 2021 Page 3

ID:Co\_LqlUbt4ATaJKEajxSMZy4vF-NO8p44JcLCmuTwOHpmfZ9KYYkTD5vawVs5GXQz2hWT

**LOAD CASE(S)** Standard

- 14) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-12(B) 25=-12(B) 26=-12(B) 27=-12(B) 28=-12(B) 29=-12(B) 31=28(F) 32=28(F) 33=61(F) 34=54(F) 36=-221(F=54, B=-275) 38=54(F)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-12(B) 25=-12(B) 26=-12(B) 27=-12(B) 28=-12(B) 29=-12(B) 31=28(F) 32=28(F) 33=61(F) 34=54(F) 36=-221(F=54, B=-275) 38=54(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-12(B) 25=-12(B) 26=-12(B) 27=-12(B) 28=-12(B) 29=-12(B) 31=28(F) 32=28(F) 33=61(F) 34=54(F) 36=-221(F=54, B=-275) 38=54(F)
- 17) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-5=-12, 8-35=-212(B=-200), 6-35=-312(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-207(B) 25=-207(B) 26=-207(B) 27=-207(B) 28=-207(B) 29=-207(B) 31=-326(F) 32=-326(F) 33=-234(F) 34=-227(F) 36=-317(F=-227, B=-90) 38=-227(F)
- 18) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-5=-12, 8-35=-212(B=-200), 6-35=-312(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-207(B) 25=-207(B) 26=-207(B) 27=-207(B) 28=-207(B) 29=-207(B) 31=-326(F) 32=-326(F) 33=-234(F) 34=-227(F) 36=-317(F=-227, B=-90) 38=-227(F)
- 19) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-30=20, 5-30=7, 8-35=-212(B=-200), 6-35=-312(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-236(B) 25=-236(B) 26=-236(B) 27=-236(B) 28=-236(B) 29=-236(B) 31=-426(F) 32=-426(F) 33=-307(F) 34=-299(F) 36=-269(F=-299, B=30) 38=-299(F)
- 20) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-23=7, 5-23=20, 8-35=-212(B=-200), 6-35=-312(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-236(B) 25=-236(B) 26=-236(B) 27=-236(B) 28=-236(B) 29=-236(B) 31=-426(F) 32=-426(F) 33=-307(F) 34=-299(F) 36=-269(F=-299, B=30) 38=-299(F)
- 21) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=-220(B=-200), 6-35=-320(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-215(B) 25=-215(B) 26=-215(B) 27=-215(B) 28=-215(B) 29=-215(B) 31=-418(F) 32=-418(F) 33=-299(F) 34=-291(F) 36=-458(F=-291, B=-167) 38=-291(F)
- 22) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=-220(B=-200), 6-35=-320(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-215(B) 25=-215(B) 26=-215(B) 27=-215(B) 28=-215(B) 29=-215(B) 31=-418(F) 32=-418(F) 33=-299(F) 34=-291(F) 36=-458(F=-291, B=-167) 38=-291(F)
- 23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=13, 8-35=-212(B=-200), 6-35=-312(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-236(B) 25=-236(B) 26=-236(B) 27=-236(B) 28=-236(B) 29=-236(B) 31=-426(F) 32=-426(F) 33=-307(F) 34=-299(F) 36=-297(F=-299, B=2) 38=-299(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=4, 8-35=-212(B=-200), 6-35=-312(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-236(B) 25=-236(B) 26=-236(B) 27=-236(B) 28=-236(B) 29=-236(B) 31=-426(F) 32=-426(F) 33=-307(F) 34=-299(F) 36=-331(F=-299, B=-31) 38=-299(F)
- 25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=-220(B=-200), 6-35=-320(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-215(B) 25=-215(B) 26=-215(B) 27=-215(B) 28=-215(B) 29=-215(B) 31=-418(F) 32=-418(F) 33=-299(F) 34=-291(F) 36=-458(F=-291, B=-167) 38=-291(F)
- 26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-21, 8-35=-220(B=-200), 6-35=-320(B=-300)  
Concentrated Loads (lb)  
Vert: 24=-215(B) 25=-215(B) 26=-215(B) 27=-215(B) 28=-215(B) 29=-215(B) 31=-418(F) 32=-418(F) 33=-299(F) 34=-291(F) 36=-458(F=-291, B=-167) 38=-291(F)
- 27) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)

Continued on page 4

**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 21030655-01	Truss F1GRA	Truss Type GABLE	Qty 1	Ply <b>2</b>	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493420 Job Reference (optional)
--------------------	----------------	---------------------	----------	-----------------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:12 2021 Page 4

ID:Co\_LqlUbt4ATaJKEajxSMZzy4vF-NO8p44JclCmuTwOHPmfZ9KYYkTD5vawVs5GXQ2z2hWT

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 24=-382(B) 25=-382(B) 26=-382(B) 27=-382(B) 28=-382(B) 29=-382(B) 31=-682(F) 32=-671(F) 33=-477(F) 34=-460(F) 36=-740(F=-465, B=-275) 38=-474(F)

28) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)

Concentrated Loads (lb)

Vert: 24=-382(B) 25=-382(B) 26=-382(B) 27=-382(B) 28=-382(B) 29=-382(B) 31=-682(F) 32=-671(F) 33=-477(F) 34=-460(F) 36=-740(F=-465, B=-275) 38=-474(F)

29) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)

Concentrated Loads (lb)

Vert: 24=-382(B) 25=-382(B) 26=-382(B) 27=-382(B) 28=-382(B) 29=-382(B) 31=-682(F) 32=-671(F) 33=-477(F) 34=-460(F) 36=-740(F=-465, B=-275) 38=-474(F)

30) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-51, 8-32=-235(B=-200), 32-35=-250(B=-200), 35-37=-350(B=-300), 6-37=-335(B=-300)

Concentrated Loads (lb)

Vert: 24=-382(B) 25=-382(B) 26=-382(B) 27=-382(B) 28=-382(B) 29=-382(B) 31=-682(F) 32=-671(F) 33=-477(F) 34=-460(F) 36=-740(F=-465, B=-275) 38=-474(F)

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

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

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

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



818 Soundside Road  
Edenton, NC 27932

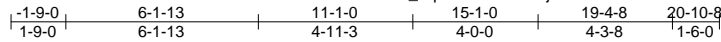


Job 21030655-01	Truss M1	Truss Type JACK-CLOSED	Qty 6	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493421
--------------------	-------------	---------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:18 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-CXV5K8NNw2W1BrsRm0mzPbocNu6JFROF1jrdiz2hWN



Scale = 1:73.6

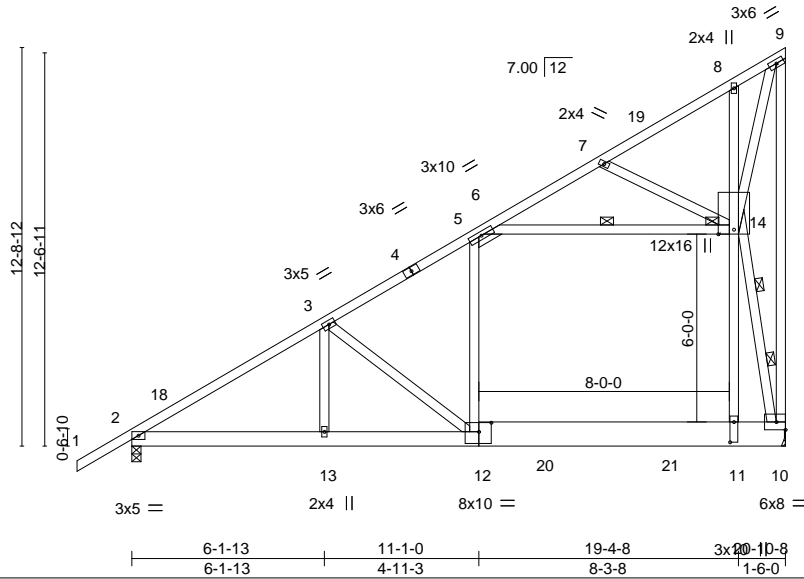


Plate Offsets (X,Y)--	[11:0-7-12,0-1-8], [12:0-4-12,0-3-8], [14:0-1-12,0-6-0]
-----------------------	---

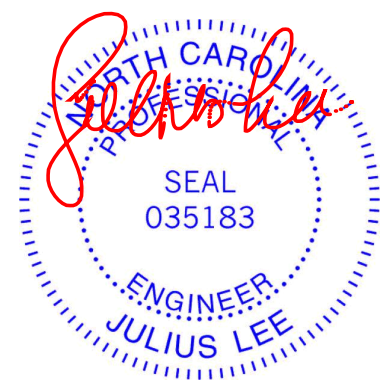
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.20 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.44 12-13	>567	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 198 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 10-12: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 9-10,8-11: 2x4 SP No.2	WEBS 1 Row at midpt 6-14 2 Rows at 1/3 pts 10-14
	JOINTS 1 Brace at Jt(s): 14

**REACTIONS.** (size) 2=0-3-8, 10=Mechanical  
 Max Horz 2=335(LC 12)  
 Max Grav 2=1141(LC 17), 10=1317(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1627/0, 3-5=-997/0, 5-6=-675/0, 6-7=-11/451, 7-8=-48/744, 8-9=0/643, 9-10=0/1531  
 BOT CHORD 2-13=0/1413, 12-13=0/1413, 11-12=0/850, 10-11=0/847  
 WEBS 3-13=0/403, 3-12=-735/53, 11-14=0/1944, 5-12=0/451, 6-14=-1145/0, 10-14=-4141/0, 9-14=-1945/0, 7-14=-298/96

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior(1) 1-3-0 to 20-8-12 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) 350.0lb AC unit load placed on the bottom chord, 15-1-0 from left end, supported at two points, 4-0-0 apart.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 28, 2021

Job 21030655-01	Truss A1GRA	Truss Type ROOF TRUSS	Qty 1	Ply 3	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493422
--------------------	----------------	--------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:09 2021 Page 1

ID:Co\_LqIUb14ATaJKKajxSMZzY4vF-zpShR3Gj2HOJcSgikd6sXiw2gG1fDv3A72spjz2hWW

1-9-0	6-1-12	9-3-12	11-1-11	17-3-8	18-7-8	24-7-0	30-6-8	31-10-8	38-0-4	43-0-4	49-2-0	50-11-0
1-9-0	6-1-12	3-2-0	1-9-15	6-1-13	1-4-0	5-11-8	5-11-8	1-4-0	6-1-12	5-0-0	6-1-12	1-9-0

Scale = 1:93.5

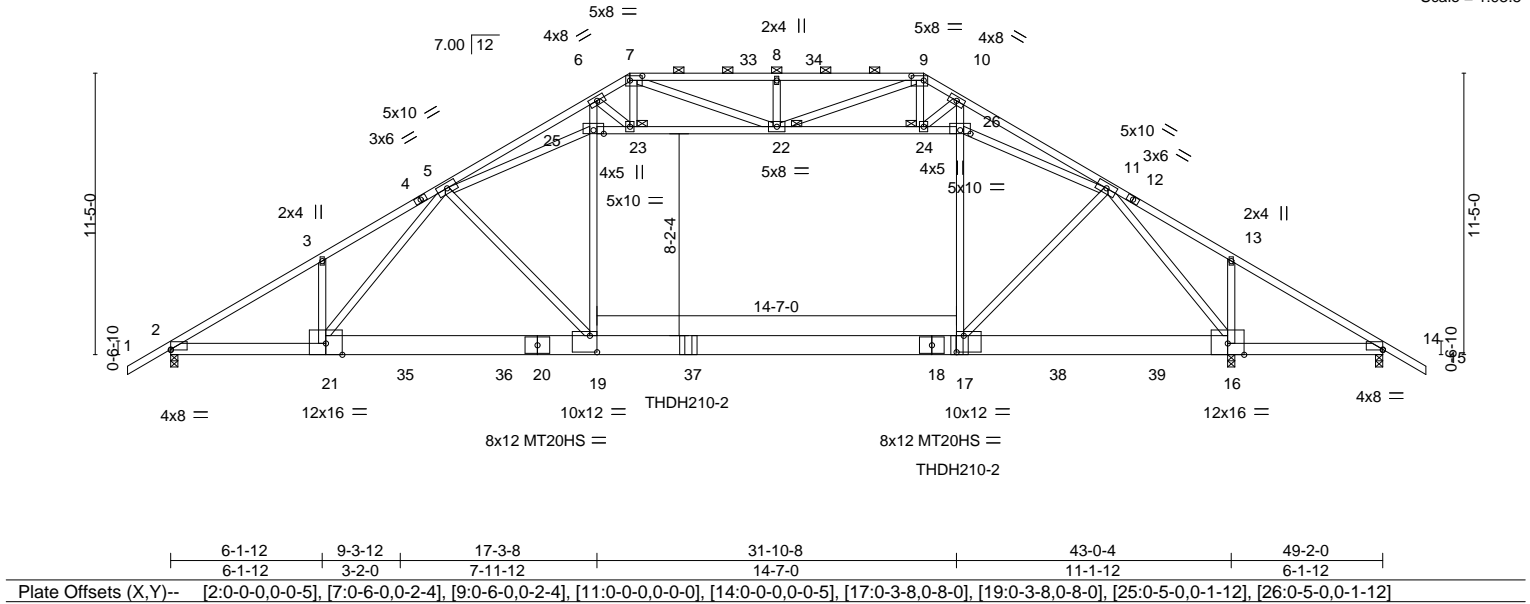


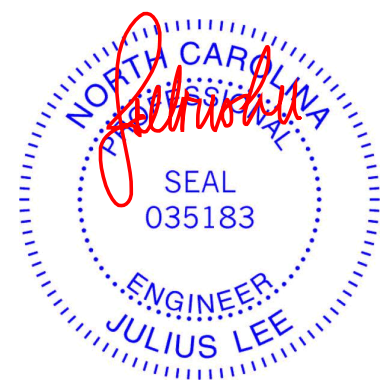
Plate Offsets (X, Y)--	[2:0-0-0,0-0-5], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [11:0-0-0,0-0-0], [14:0-0-0,0-0-5], [17:0-3-8,0-8-0], [19:0-3-8,0-8-0], [25:0-5-0,0-1-12], [26:0-5-0,0-1-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.39 17-19 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.88 17-19 >587 180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.08 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Attic -0.26 17-19 692 360		Weight: 1256 lb FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins, except
BOT CHORD 2x10 SP 2400F 2.0E *Except*	2-0-0 oc purlins (6-0-0 max.): 7-9.
2-21,14-16: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	2-2-0 oc bracing: 17-19.
6-19,10-17,25-26,5-21,11-16: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 22, 23, 24

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8, 16=0-3-8  
 Max Horz 2=204(LC 7)  
 Max Grav 2=7462(LC 2), 14=1726(LC 2), 16=8622(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-12986/0, 3-5=-12909/0, 5-6=-11318/0, 6-7=-6517/0, 7-8=-4911/0, 8-9=-4911/0, 9-10=-3806/0, 10-11=-5439/0, 11-13=-2667/0, 13-14=-2648/0  
 BOT CHORD 2-21=0/11134, 19-21=0/11997, 17-19=0/12538, 16-17=0/8520, 14-16=0/2276  
 WEBS 19-25=0/6626, 6-25=0/5536, 17-26=0/4541, 10-26=0/1593, 23-25=-3072/0, 22-23=-6722/0, 22-24=-9311/0, 24-26=-8262/0, 8-22=-382/110, 13-16=-350/87, 5-19=0/1111, 5-21=-1636/0, 11-17=0/5856, 11-16=-10913/0, 7-23=0/3426, 9-24=0/1253, 7-22=-1036/0, 6-23=-5304/0, 9-22=0/1864, 10-24=-1754/0, 5-25=-3387/0, 11-26=-8756/0

- NOTES-**
- 3-ply truss to be connected together as follows:  
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected with WS45 as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 3 rows staggered at 0-4-0 oc.  
 Web connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-6-0 oc, Except member 25-26 2x4 - 1 row at 0-9-0 oc, member 22-8 2x4 - 1 row at 0-9-0 oc, member 21-3 2x4 - 1 row at 0-9-0 oc, member 16-13 2x4 - 1 row at 0-9-0 oc, member 19-5 2x4 - 1 row at 0-9-0 oc, member 21-5 2x4 - 1 row at 0-9-0 oc, member 17-11 2x4 - 1 row at 0-9-0 oc, member 16-11 2x4 - 1 row at 0-9-0 oc, member 23-7 2x4 - 1 row at 0-9-0 oc, member 24-9 2x4 - 1 row at 0-9-0 oc, member 22-7 2x4 - 1 row at 0-9-0 oc, member 23-6 2x4 - 1 row at 0-9-0 oc, member 22-9 2x4 - 1 row at 0-9-0 oc, member 24-10 2x4 - 1 row at 0-9-0 oc, member 5-25 2x4 - 1 row at 0-9-0 oc, member 11-26 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide with 10d bracing on the bottom chord and any other members, with BCDL = 10.0psf.



June 28, 2021

**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 21030655-01	Truss A1GRA	Truss Type ROOF TRUSS	Qty 1	Ply <b>3</b>	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493422 Job Reference (optional)
--------------------	----------------	--------------------------	----------	-----------------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:09 2021 Page 2  
ID:Co\_LqlUbt4ATaJKEajxSMZzY4vF-zpShR3Gj2HOJcSgikd6sXiw2gG1fiDv3A72spjz2hWW

**NOTES-**

- 9) Ceiling dead load (5.0 psf) on member(s). 23-25, 22-23, 22-24, 24-26; Wall dead load (7.0psf) on member(s).19-25, 17-26
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-19
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use MiTek THDH210-2 (With 46-16d nails into Girder & 12-16d nails into Truss) or equivalent at 21-0-0 from the left end to connect truss(es) to front face of bottom chord , skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 14) Use MiTek THDH210-2 (With 46-16d nails into Girder & 12-16d nails into Truss) or equivalent at 32-0-0 from the left end to connect truss(es) to front face of bottom chord , skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-60, 7-9=-60, 9-15=-60, 19-27=-20, 17-19=-30, 17-30=-20, 25-26=-10  
Drag: 19-25=-14, 17-26=-14  
Concentrated Loads (lb)  
Vert: 17=-4965(F) 37=-6161(F)

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

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



818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss A1A	Truss Type ROOF TRUSS	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493423
--------------------	--------------	--------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:14:50 2021 Page 1

ID:Co\_LqjUb4TAJKEajxSMZzY4vF-19pVSZ2pWS\_0qXj278GPGeo8be9ldJGpgxMeKz2hWp

1-9-0	6-1-12	9-3-12	11-1-11	17-3-8	18-7-8	24-7-0	30-6-8	31-10-8	38-0-4	43-0-4	49-2-0	50-11-0
1-9-0	6-1-12	3-2-0	1-9-15	6-1-13	1-4-0	5-11-8	5-11-8	1-4-0	6-1-12	5-0-0	6-1-12	1-9-0

Scale = 1:87.2

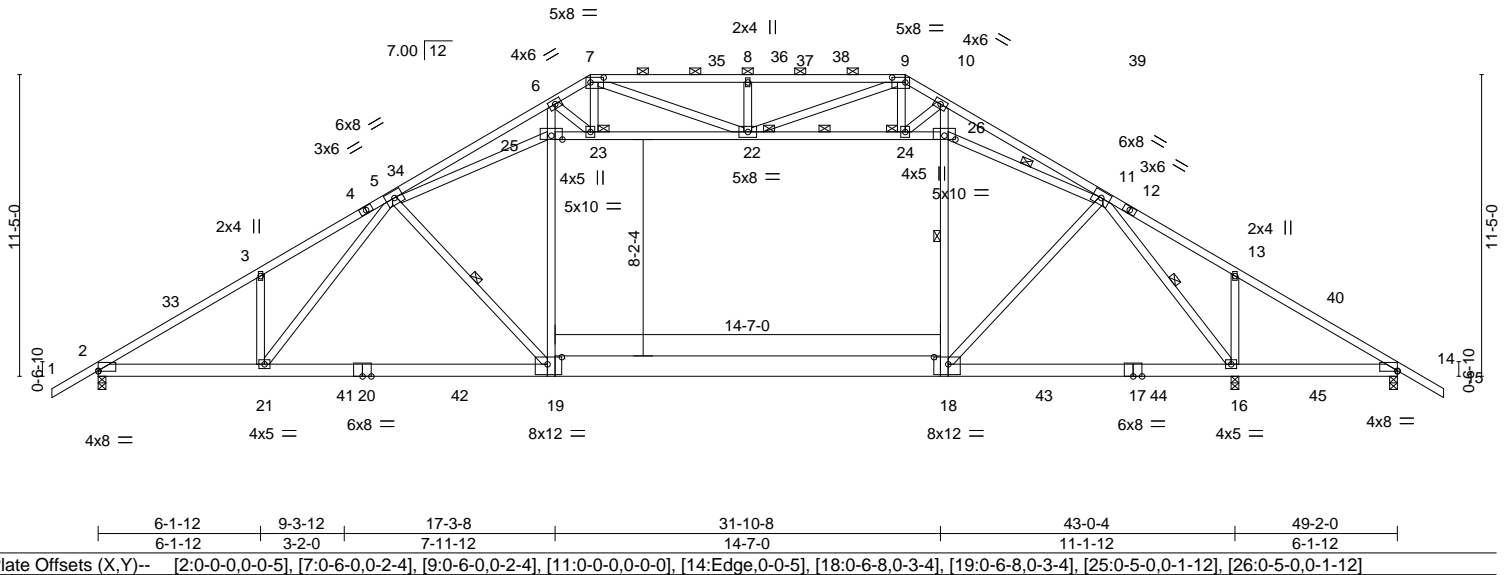


Plate Offsets (X, Y)--	[2:0-0-0,0-0-5], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [11:0-0-0,0-0-0], [14:Edge,0-0-5], [18:0-6-8,0-3-4], [19:0-6-8,0-3-4], [25:0-5-0,0-1-12], [26:0-5-0,0-1-12]
------------------------	--

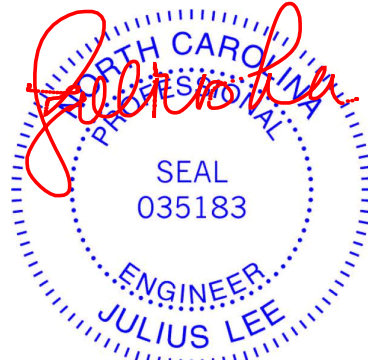
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.43 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.68 18-19	>763	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.08 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Attic	-0.32 18-19	558	360		
								Weight: 386 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP 2400F 2.0E *Except* 18-19: 2x10 SP 2400F 2.0E	2-0-0 oc purlins (4-1-14 max.): 7-9.
WEBS 2x4 SP No.3 *Except* 6-19,10-18,25-26: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 18-26, 22-24, 5-19, 11-16, 11-26
	JOINTS 1 Brace at Jt(s): 22, 23, 24

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8, 16=0-3-8  
 Max Horz 2=204(LC 10)  
 Max Uplift 14=50(LC 12)  
 Max Grav 2=2672(LC 18), 14=999(LC 18), 16=2286(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4487/0, 3-5=-4467/0, 5-6=-3699/0, 6-7=-2263/0, 7-8=-1736/22, 8-9=-1736/22, 9-10=-837/40, 10-11=-671/329, 11-13=-1479/61, 13-14=-1513/0  
 BOT CHORD 2-21=0/3935, 19-21=0/3554, 16-18=0/2371, 14-16=0/1264, 18-19=0/3134  
 WEBS 19-25=0/1467, 6-25=0/1476, 18-26=-145/529, 10-26=-950/118, 23-25=-473/276, 22-23=-1161/0, 22-24=-2580/0, 24-26=-3029/0, 8-22=-387/90, 3-21=-266/112, 13-16=-320/111, 5-19=-608/105, 5-21=-21/639, 11-18=0/1115, 11-16=-2112/0, 7-23=0/1047, 9-24=-418/77, 7-22=-367/368, 6-23=-1572/0, 9-22=-27/1340, 10-24=-75/810, 5-25=-521/251, 11-26=-3188/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 3-2-0, Interior(1) 3-2-0 to 18-7-8, Exterior(2R) 18-7-8 to 25-6-15, Interior(1) 25-6-15 to 30-6-8, Exterior(2R) 30-6-8 to 37-5-15, Interior(1) 37-5-15 to 50-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Ceiling dead load (5.0 psf) on member(s). 23-25, 22-23, 22-24, 24-26; Wall dead load (7.0psf) on member(s).19-25, 18-26
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- On this page representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 28, 2021

**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 TRESCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 21030655-01	Truss A1A	Truss Type ROOF TRUSS	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493423 Job Reference (optional)
--------------------	--------------	--------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:14:50 2021 Page 2  
ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-19pVSZ2pWS\_0qXj278GPGheo8be9ldJGpoxMeKz2hWp

**NOTES-**

12) Attic room checked for L/360 deflection.

**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 21030655-01	Truss A1B	Truss Type ROOF TRUSS	Qty 10	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493424
--------------------	--------------	--------------------------	-----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:14:52 2021 Page 1

ID:Co\_LqUbt4ATaJkEajxSMZzY4vF-zXxGf3323FK3rtREZIL6j7sPJoDV\_ZG\_QTjCz2hWn

Job Reference (optional)



Scale = 1:86.0

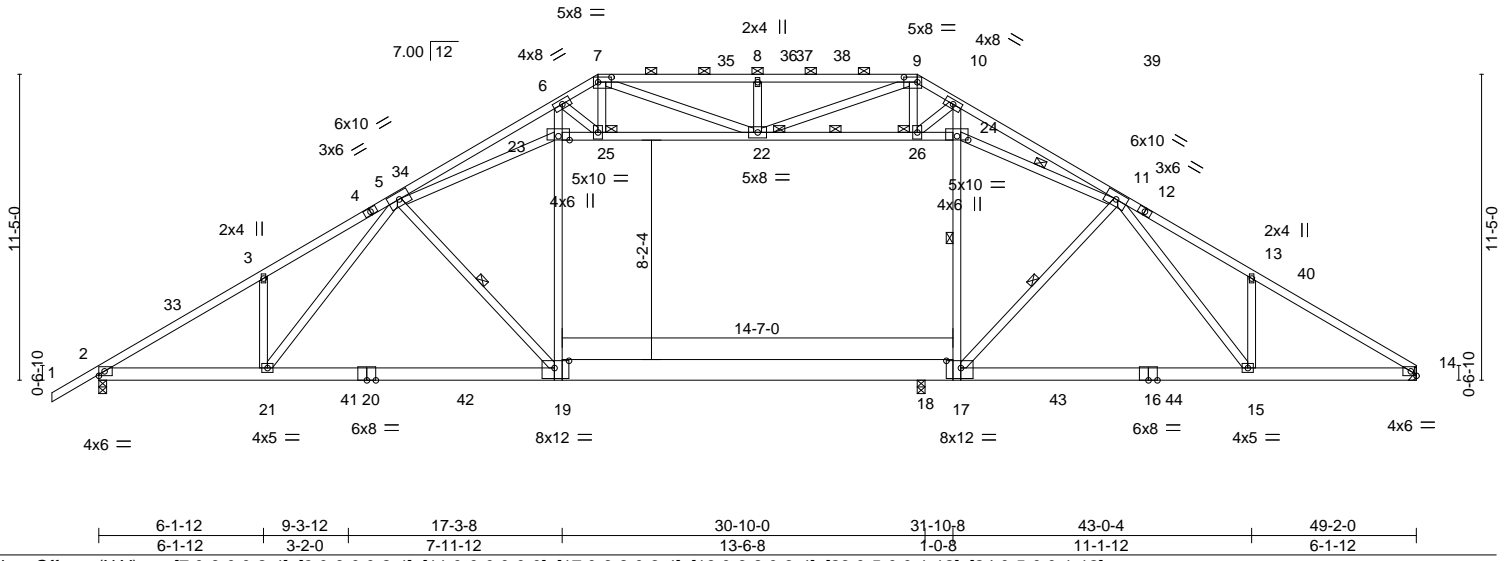


Plate Offsets (X, Y)--	[7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [11:0-0-0,0-0-0], [17:0-6-8,0-3-4], [19:0-6-8,0-3-4], [23:0-5-0,0-1-12], [24:0-5-0,0-1-12]
------------------------	--

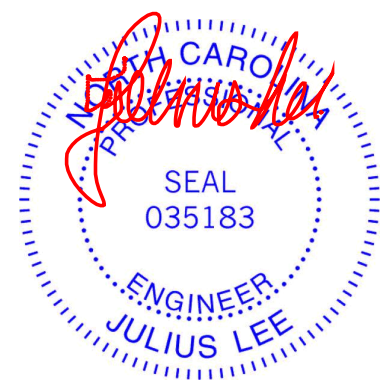
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.39 18-19 >936 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.71 19-21 >516 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.09 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Attic 0.08 17-18 402 360	Weight: 383 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-4-12 max.): 7-9.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 17-19: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-19,10-17: 2x4 SP No.2, 23-24: 2x4 SP No.1	WEBS 1 Row at midpt 17-24, 22-26, 5-19, 11-17, 11-24
	JOINTS 1 Brace at Jt(s): 22, 25, 26

**REACTIONS.** (size) 2=0-3-8, 14=Mechanical, 18=0-3-8  
 Max Horz 2=199(LC 11)  
 Max Grav 2=2431(LC 18), 14=1893(LC 18), 18=1550(LC 27)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4054/0, 3-5=-4034/0, 5-6=-3986/0, 6-7=-2338/0, 7-8=-1521/51, 8-9=-1521/51, 9-10=-365/132, 10-11=0/1116, 11-13=-3205/0, 13-14=-3252/0  
 BOT CHORD 2-21=0/3552, 19-21=0/3135, 15-17=0/2435, 14-15=0/2751, 18-19=0/2603, 17-18=0/2648  
 WEBS 19-23=0/1443, 6-23=0/1758, 17-24=-514/108, 10-24=-1538/0, 23-25=0/922, 22-25=-430/37, 22-26=-2574/0, 24-26=-3488/0, 8-22=-389/89, 3-21=-267/112, 13-15=-293/111, 5-19=-781/73, 5-21=-12/700, 11-17=-208/370, 11-15=-34/684, 7-22=-751/128, 9-22=0/1668, 5-23=0/923, 11-24=-3658/0, 7-25=0/1186, 6-25=-1806/0, 9-26=-663/0, 10-26=0/1219

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 3-2-0, Interior(1) 3-2-0 to 18-7-8, Exterior(2R) 18-7-8 to 25-6-15, Interior(1) 25-6-15 to 30-6-8, Exterior(2R) 30-6-8 to 37-5-15, Interior(1) 37-5-15 to 49-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Ceiling dead load (5.0 psf) on member(s). 23-25, 22-25, 22-26, 24-26; Wall dead load (7.0psf) on member(s).19-23, 17-24
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.



June 28, 2021

**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

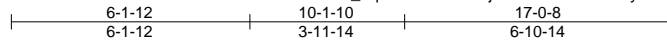


Job 21030655-01	Truss M2B	Truss Type JACK-CLOSED	Qty 2	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493425
--------------------	--------------	---------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:21 2021 Page 1

ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-c6BDy9QFDzuc2la0R9Jg1EQ6h5EDWmKqx\_yVE1z2hWK



Scale = 1:59.4

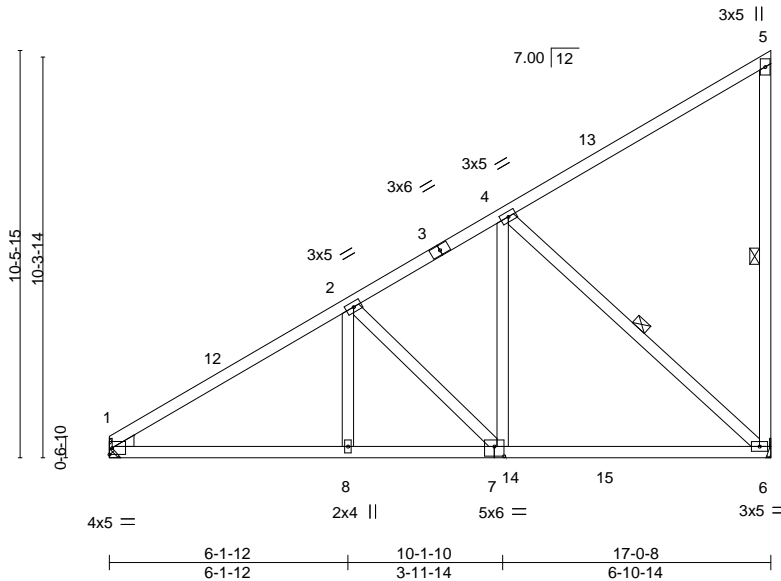


Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.10 6-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.18 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				Weight: 105 lb	FT = 20%

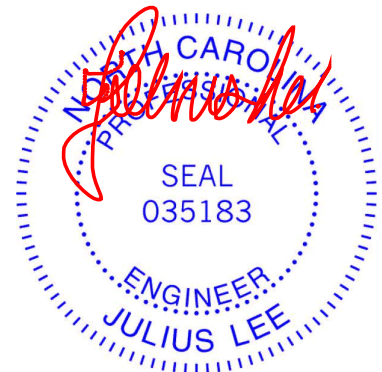
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-6, 4-6

**REACTIONS.** (size) 1=Mechanical, 6=Mechanical  
Max Horz 1=242(LC 12)  
Max Uplift 6=-79(LC 12)  
Max Grav 1=765(LC 17), 6=818(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1035/0, 2-4=-709/0  
BOT CHORD 1-8=-97/882, 7-8=-97/882, 6-7=-59/592  
WEBS 4-7=0/521, 4-6=-781/78, 2-7=-386/57

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-10-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 28, 2021

**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



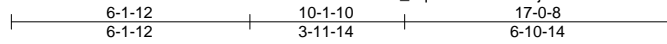
818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss M2A	Truss Type JACK-CLOSED	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493426
--------------------	--------------	---------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:20 2021 Page 1

ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-8wdripPdSfmiQ80ptRoRU0txshuRnLFhikDyibz2hWL



Scale = 1:59.4

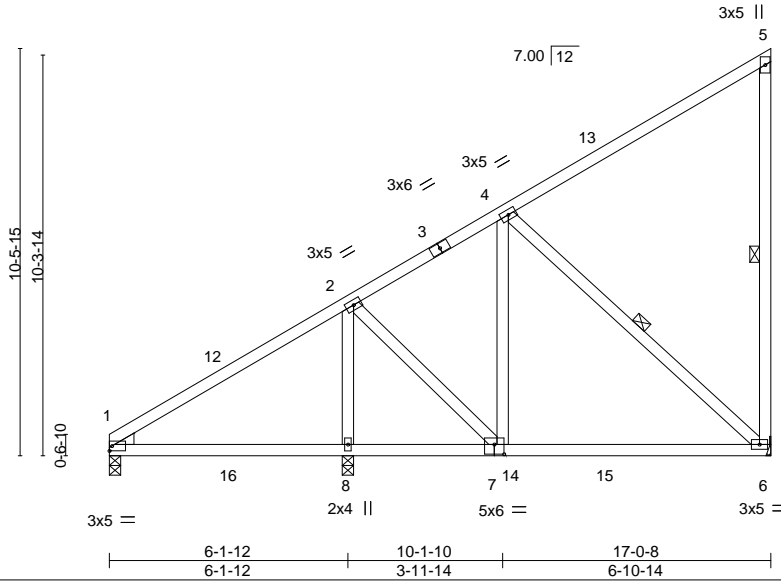


Plate Offsets (X,Y)--	[7:0-3-0,0-3-0]
-----------------------	-----------------

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.10 6-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.17 6-7 >766 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				Weight: 105 lb	FT = 20%

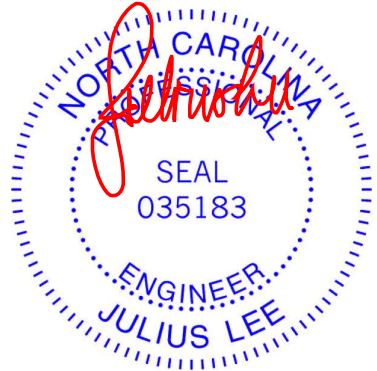
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, excepting end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-6, 4-6
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 1=0-3-8, 8=0-3-8, 6=Mechanical  
 Max Horz 1=242(LC 12)  
 Max Uplift 1=-26(LC 12), 6=-104(LC 12)  
 Max Grav 1=380(LC 2), 8=565(LC 17), 6=598(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-374/71, 2-4=-420/0  
 BOT CHORD 1-8=-226/272, 7-8=-226/272, 6-7=-92/350  
 WEBS 2-8=-429/0, 4-6=-453/122

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-10-12 zone; cantilever left and right exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=104.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 28,2021

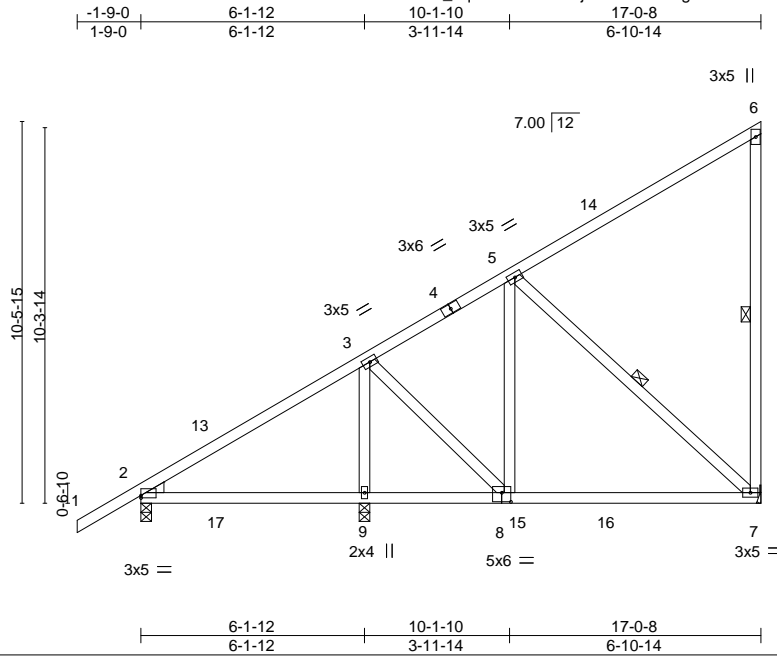
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss M2	Truss Type JACK-CLOSED	Qty 3	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493427
--------------------	-------------	---------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:19 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-gk3TYUO?hMeuo?RdJkHCxpLm9IYE2vAXTgTOA8z2hWM



Scale = 1:63.3

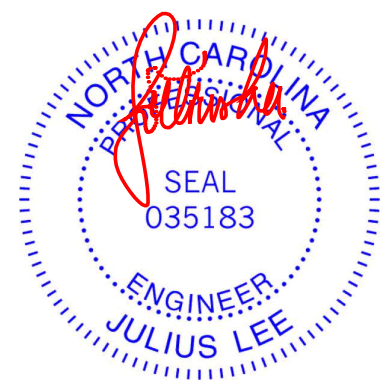
Plate Offsets (X,Y)--	[2:0-0-0,0-0-13], [8:0-3-0,0-3-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.10 7-8 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.17 7-8 >768 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01 2 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 108 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 5-7
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8, 7=Mechanical  
 Max Horz 2=280(LC 12)  
 Max Uplift 2=-61(LC 12), 9=-4(LC 12), 7=-94(LC 12)  
 Max Grav 2=453(LC 2), 9=599(LC 17), 7=581(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-309/32, 3-5=-397/0  
 BOT CHORD 7-8=-90/332  
 WEBS 3-9=-472/0, 5-7=-429/118

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior(1) 1-3-0 to 16-10-12 zone; cantilever left and right exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
  - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 28, 2021

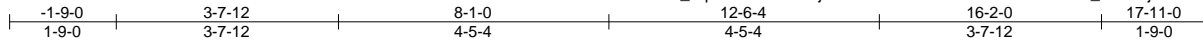
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss T3	Truss Type Common	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493428
--------------------	-------------	----------------------	----------	----------	--

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

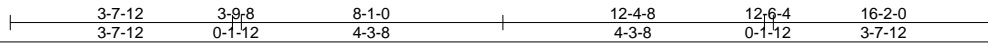
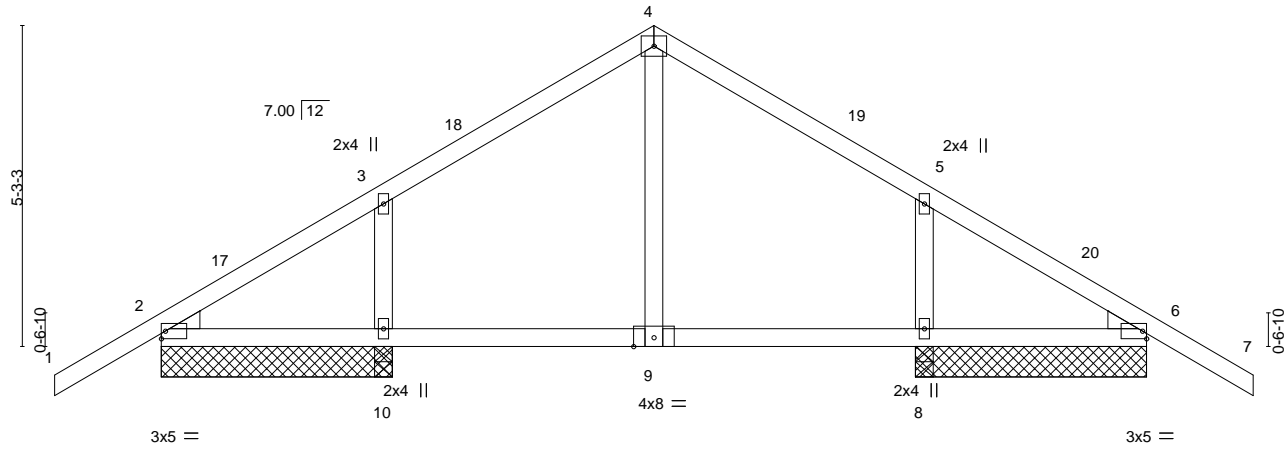
8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:30 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-srEdrEXu5k1KdhmkTY\_nu7liSjNJ7wl9?ueU3?z2hWB



4x5 =

Scale = 1:37.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.02	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 73 lb	FT = 20%

**LUMBER-**

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

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

**BRACING-**

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

**REACTIONS.** All bearings 3-9-8.

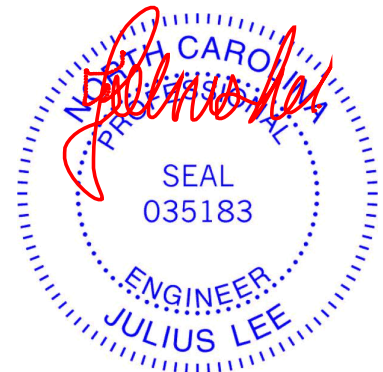
- (lb) - Max Horz 2=98(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 10, 6
- Max Grav All reactions 250 lb or less at joint(s) except 2=428(LC 1), 8=335(LC 24), 8=324(LC 1), 10=335(LC 23), 10=324(LC 1), 6=428(LC 1), 2=428(LC 1), 6=428(LC 1)

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

TOP CHORD 2-3=-384/0, 3-4=-402/36, 4-5=-402/37, 5-6=-384/0  
BOT CHORD 2-10=0/290, 9-10=0/290, 8-9=0/290, 6-8=0/290  
WEBS 5-8=-257/105, 3-10=-257/105

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior(1) 1-3-0 to 8-1-0, Exterior(2R) 8-1-0 to 11-1-0, Interior(1) 11-1-0 to 17-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 28, 2021

**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 21030655-01	Truss T3GR	Truss Type COMMON	Qty 1	Ply 3	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493429
--------------------	---------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:33 2021 Page 1

ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-GQvmUGZnOfPvU8VJ8gXUWmw1GxJhK4Xbss8fKz2hW8

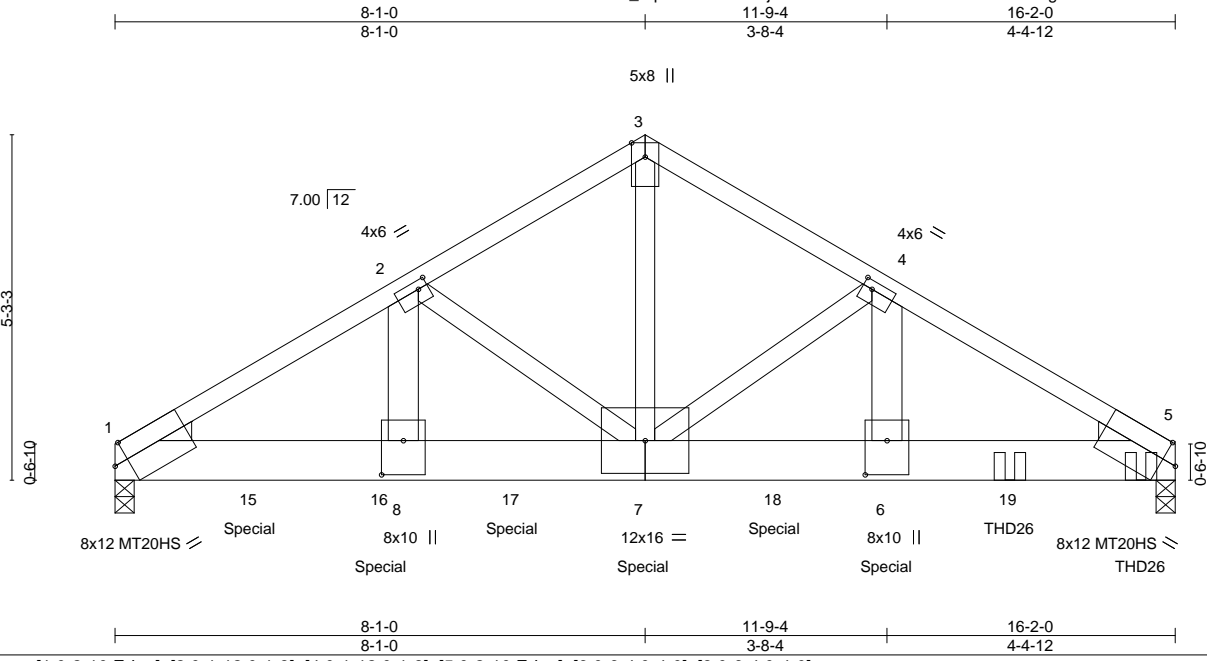


Plate Offsets (X,Y)--	[1:0-2-10,Edge], [2:0-1-12,0-1-8], [4:0-1-12,0-1-8], [5:0-2-10,Edge], [6:0-6-4,0-4-0], [8:0-6-4,0-4-0]
-----------------------	--

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.14	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.26	6-7	>735	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.05	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 326 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
3-7: 2x4 SP No.1, 4-6,2-8: 2x6 SP No.2  
**WEDGE**  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

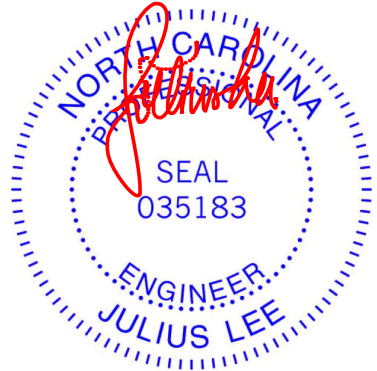
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8 (req. 0-3-12)  
Max Horz 1=80(LC 7)  
Max Grav 1=11662(LC 2), 5=13486(LC 2)

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

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-18747/0, 2-3=-14719/0, 3-4=-14715/0, 4-5=-22778/0  
BOT CHORD 1-8=0/16147, 7-8=0/16147, 6-7=0/19599, 5-6=0/19599  
WEBS 3-7=0/14488, 4-7=-8489/0, 4-6=0/8953, 2-7=-4241/0, 2-8=0/4390

- NOTES-**
- 3-ply truss to be connected together with WS45 as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
  - 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.
  - Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 13-7-12 from the left end to 15-7-12 to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2728 lb down at 2-0-12, 2728 lb down at 4-0-12, 2728 lb down at 6-0-12, 2728 lb down at 8-0-12, and 2728 lb down at 10-0-12, and 8951 lb down at 11-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



June 28, 2021

Continued on page 2

**LOAD CASE(S)** Standard

**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 21030655-01	Truss T3GR	Truss Type COMMON	Qty 1	Ply <b>3</b>	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493429 Job Reference (optional)
--------------------	---------------	----------------------	----------	-----------------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:33 2021 Page 2  
ID:Co\_LqlUbt4ATaJKEajxSMZzY4vF-GQvmUGZnOfPvU8VJ8gXUWmw1GxJhK4Xbhss8fKz2hW8

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 9-12=-20

Concentrated Loads (lb)

Vert: 7=-2215(B) 6=-7773(B) 14=-661(B) 15=-2215(B) 16=-2215(B) 17=-2215(B) 18=-2215(B) 19=-656(B)

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

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



818 Soundside Road  
Edenton, NC 27932

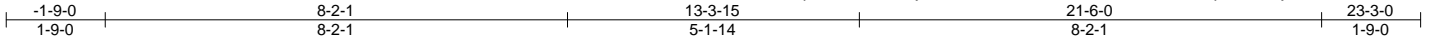


Job 21030655-01	Truss T2GS	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493430
--------------------	---------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:28 2021 Page 1

ID:Co\_LqlUbt4ATaJKEajxSMZzY4vF-vT6tQZVea7ndONdML7xJpiDMvwkif0FsYa9N\_7z2hWD



Scale = 1:40.7

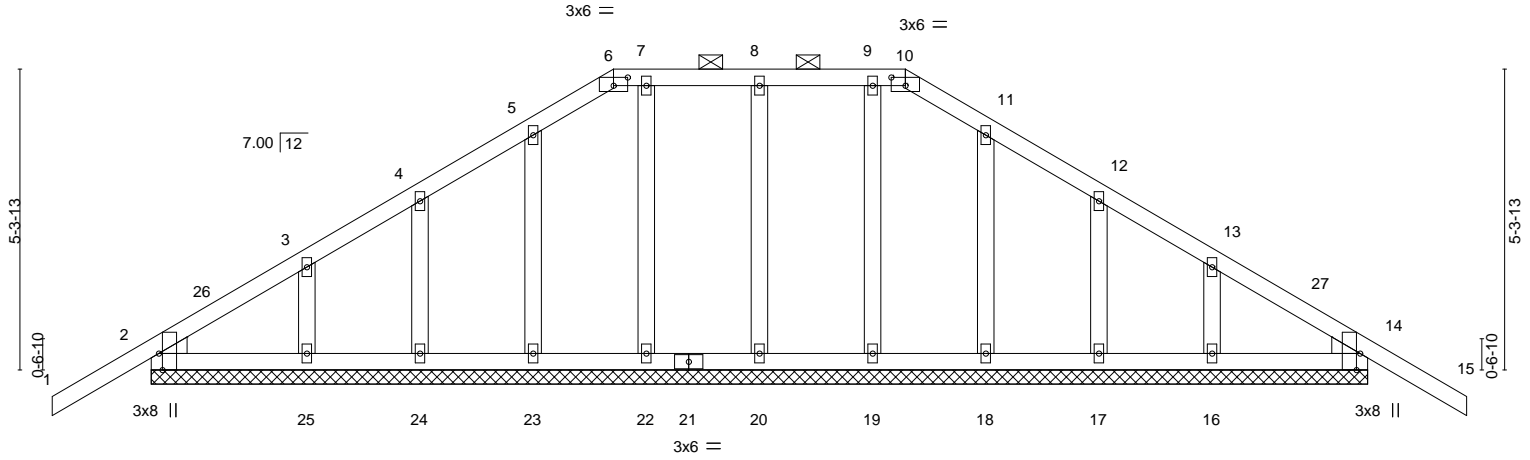


Plate Offsets (X, Y)--	[2:0-3-8,Edge], [6:0-3-0,0-1-12], [10:0-3-0,0-1-12], [14:0-3-8,Edge]
------------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	15	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.02	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						

Weight: 122 lb FT = 20%

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

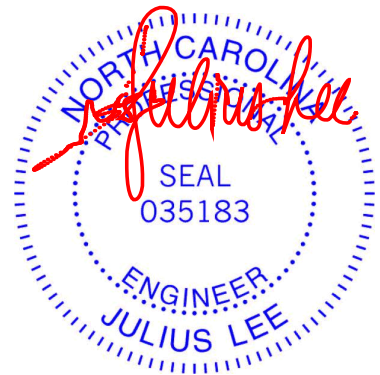
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-10.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 21-6-0.  
(lb) - Max Horz 2--99(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 23, 24, 18, 17, 14  
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 22, 23, 24, 25, 19, 18, 17, 16, 14

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-9-0 to 1-3-0, Exterior(2N) 1-3-0 to 8-2-1, Corner(3R) 8-2-1 to 11-2-1, Exterior(2N) 11-2-1 to 13-3-15, Corner(3R) 13-3-15 to 16-3-15, Exterior(2N) 16-3-15 to 23-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 28, 2021

**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



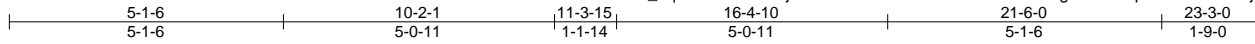
818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss T2	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493431
--------------------	-------------	-------------------	----------	----------	--

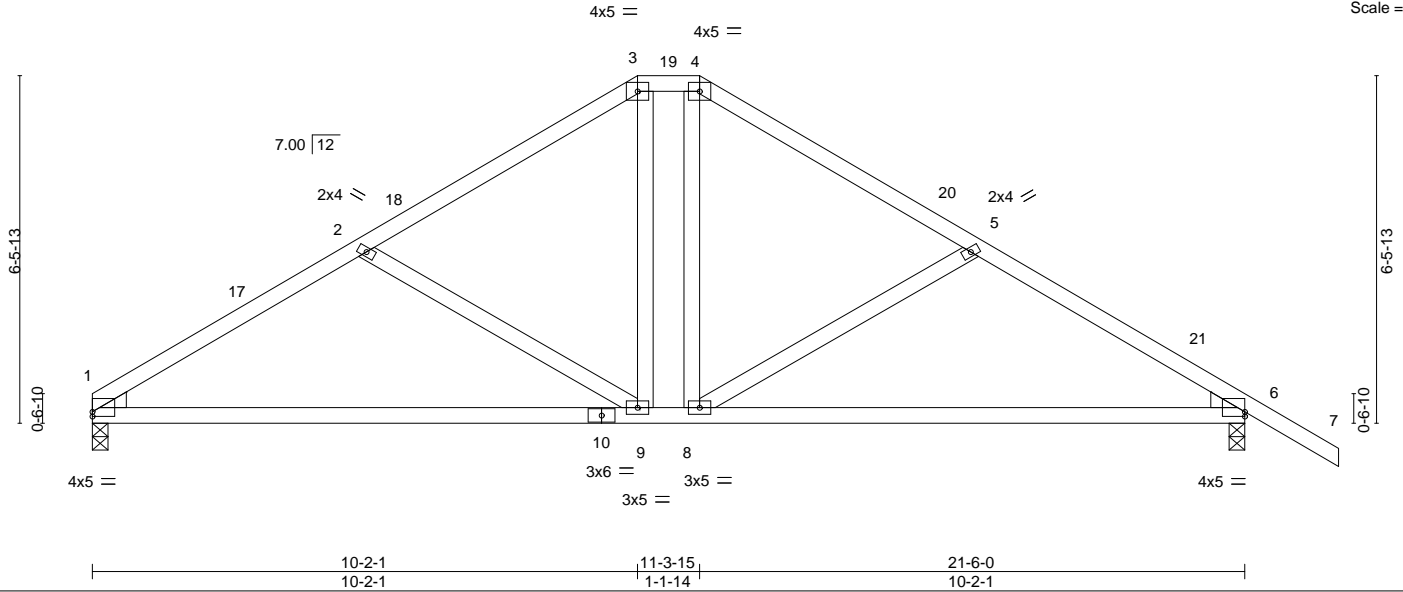
Carter Components (Lexington), Lexington, NC - 27295,

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:25 2021 Page 1

ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-VuQkoXTmHCP2Xwung?OcB4bqRiV8SbQQscwjNoz2hWG



Scale = 1:43.0



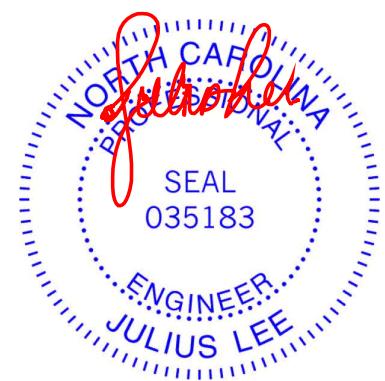
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.20	9-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.41	9-13	>636		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 109 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.); 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 1=0-3-8, 6=0-3-8  
 Max Horz 1=-114(LC 10)  
 Max Uplift 1=-4(LC 12), 6=-52(LC 12)  
 Max Grav 1=856(LC 1), 6=969(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1286/65, 2-3=-974/49, 3-4=-771/64, 4-5=-972/47, 5-6=-1273/59  
 BOT CHORD 1-9=0/1055, 8-9=0/771, 6-8=0/1037  
 WEBS 2-9=-355/99, 3-9=0/310, 4-8=0/302, 5-8=-335/88

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-2-1, Exterior(2E) 10-2-1 to 11-3-15, Exterior(2R) 11-3-15 to 15-6-14, Interior(1) 15-6-14 to 23-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 28,2021

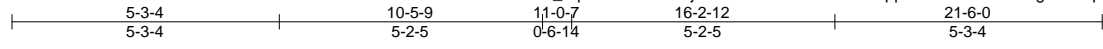
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss T2GRA	Truss Type HIP GIRDER	Qty 1	Ply 3	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493432
--------------------	----------------	--------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:27 2021 Page 1

ID:Co\_LqIUb4tAJKEajxSMZzy4vF-RGYUDDU0ppfmmD2AnPQ4GVg4hWGpwOCjWpPShz2hWE



Scale = 1:45.4

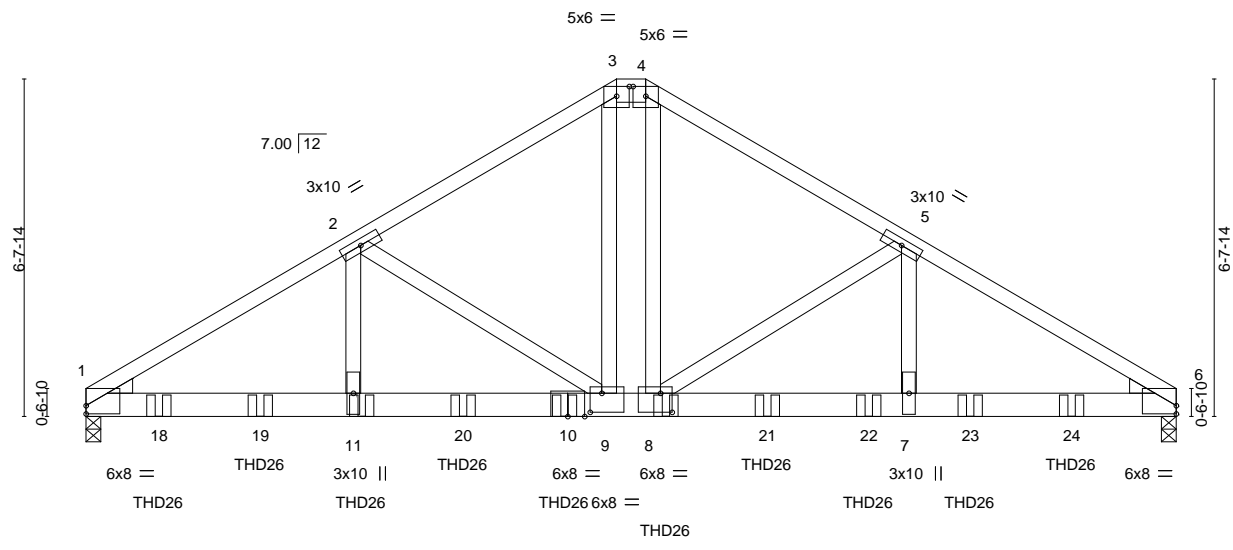


Plate Offsets (X,Y)--	[1:0-0-0,0-1-15], [3:0-3-0,0-2-5], [4:0-3-0,0-2-5], [6:0-0-0,0-1-15], [8:0-2-12,0-4-8], [9:0-2-12,0-4-8]
-----------------------	--

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.14 9-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.27 9-11	>949	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.06 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 397 lb	FT = 20%

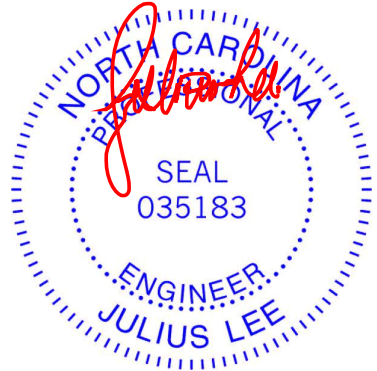
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 3-4: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except
BOT CHORD 2x6 SP 2400F 2.0E	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 1=0-3-8, 6=0-3-8  
Max Horz 1=-104(LC 25)  
Max Grav 1=10314(LC 2), 6=9713(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-15848/0, 2-3=-11118/0, 3-4=-9437/0, 4-5=-11112/0, 5-6=-15659/0  
BOT CHORD 1-11=0/13649, 9-11=0/13649, 8-9=0/9437, 7-8=0/13467, 6-7=0/13467  
WEBS 2-11=0/4776, 2-9=-4872/0, 3-9=0/5473, 4-8=0/5402, 5-8=-4659/0, 5-7=0/4579

- NOTES-**
- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - 3) Unbalanced roof live loads have been considered for this design.
  - 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-5-4 from the left end to 19-5-4 to connect truss(es) to back face of bottom chord.
  - 11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard



June 28, 2021

Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss T2GRA	Truss Type HIP GIRDER	Qty 1	Ply <b>3</b>	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493432 Job Reference (optional)
--------------------	----------------	--------------------------	----------	-----------------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:27 2021 Page 2  
ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-RGYUDDU0ppfmmD2AnPQ4GVg4hWGPwOCjJwPpShz2hWE

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 10=-1609(B) 11=-1609(B) 8=-1609(B) 18=-1609(B) 19=-1609(B) 20=-1609(B) 21=-1609(B) 22=-1609(B) 23=-1609(B) 24=-1609(B)

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

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



818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss A1GA	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493433
--------------------	---------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:00 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-k4PHY\_94AWFb14UziFRlgo2Wgd7x5ITk6DMu?IzZhWf

1-9-0	6-1-12	9-3-12	11-1-11	17-3-8	18-7-8	24-7-0	30-6-8	31-10-8	38-0-4	43-0-4	49-2-0
1-9-0	6-1-12	3-2-0	1-9-15	6-1-13	1-4-0	5-11-8	5-11-8	1-4-0	6-1-12	5-0-0	6-1-12

Scale = 1:87.6

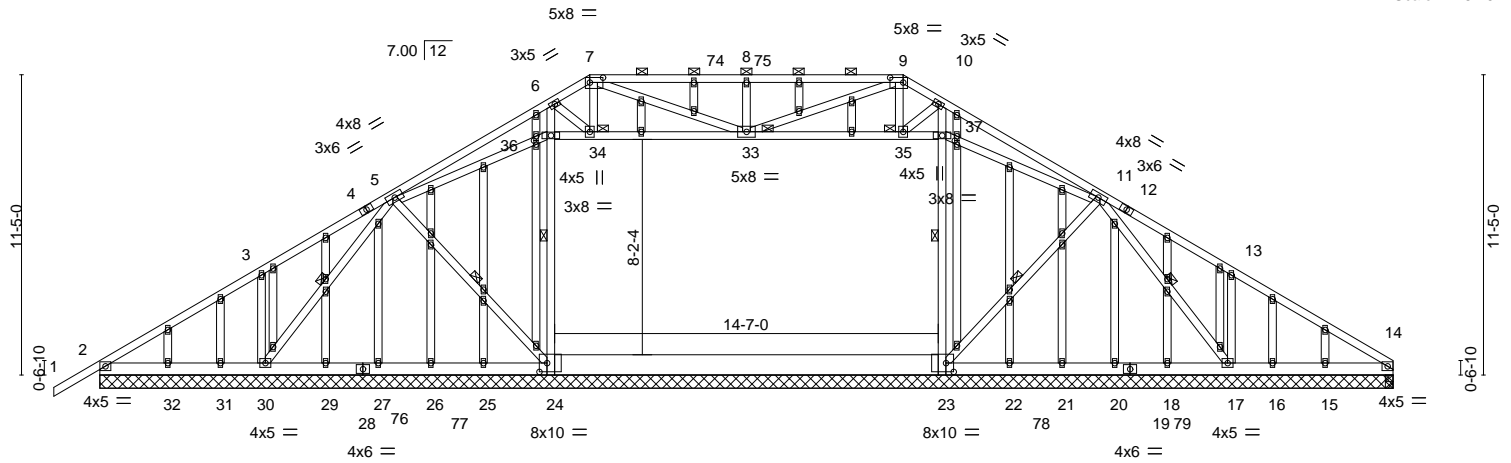


Plate Offsets (X,Y)--	[7:0-6-0-0-2-4], [9:0-6-0-0-2-4], [11:0-0-0-0-0-0], [13:0-3-8-0-4-0], [14:0-3-8-0-4-0], [16:0-1-13-0-1-0], [18:0-0-0-0-0-0], [20:0-1-13-0-1-0], [22:0-0-0-0-0-0], [24:0-0-0-0-0-0], [26:0-0-0-0-0-0], [28:0-0-0-0-0-0], [30:0-0-0-0-0-0], [32:0-0-0-0-0-0], [34:0-0-0-0-0-0], [36:0-0-0-0-0-0], [38:0-0-0-0-0-0], [40:0-0-0-0-0-0], [42:0-0-0-0-0-0], [44:0-0-0-0-0-0], [46:0-0-0-0-0-0], [48:0-0-0-0-0-0], [50:0-0-0-0-0-0]
-----------------------	--

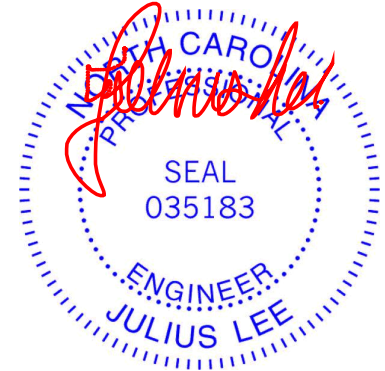
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.15 23-24	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.22 23-24	>810	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.00 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 509 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 23-24: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24.
WEBS 2x4 SP No.3 *Except* 6-24,10-23,36-37: 2x4 SP No.2	WEBS 1 Row at midpt 6-24, 10-23, 5-24, 5-30, 11-23, 11-17
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 33, 34, 35

**REACTIONS.** All bearings 49-2-0.  
 (lb) - Max Horz 2=200(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 27, 29, 31 except  
 17=109(LC 12), 25=220(LC 16), 22=217(LC 16)  
 Max Grav All reactions 250 lb or less at joint(s) 14, 14, 26, 27, 32, 21, 20, 18,  
 16, 15 except 2=384(LC 24), 23=1324(LC 19), 24=1408(LC 18), 17=551(LC 25),  
 29=308(LC 18), 31=361(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-304/25, 3-5=-273/130, 6-7=-282/142, 7-8=-751/274, 8-9=-751/274, 9-10=-302/145  
 WEBS 24-36=-650/147, 6-36=-696/181, 23-37=-643/146, 10-37=-683/177, 8-33=-408/119,  
 3-30=-315/148, 13-17=-340/161, 5-24=-279/128, 7-33=-170/596, 6-34=-33/406,  
 9-33=-168/589, 10-35=-50/407

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-9-0 to 3-2-0, Exterior(2N) 3-2-0 to 18-7-8, Corner(3R) 18-7-8 to 23-6-8, Exterior(2N) 23-6-8 to 30-6-8, Corner(3R) 30-6-8 to 35-5-8, Exterior(2N) 35-5-8 to 49-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) 23, 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 29, 31 except 2=217.



June 28, 2021

**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 21030655-01	Truss A1GA	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493433 Job Reference (optional)
--------------------	---------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:01 2021 Page 2  
ID:Co\_LqlUbt4ATaJKEajxSMZzY4vF-CGzfmKAixqNSeD3AGyy\_D0bhQ1T9qljuKt6RXBz2hWe

**NOTES-**

- 11) N/A
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

**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

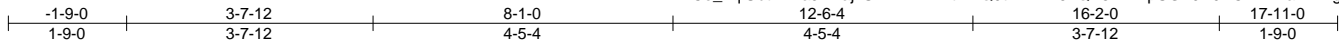


818 Soundside Road  
Edenton, NC 27932



Job 21030655-01	Truss T3G	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss Job Reference (optional)	T24493434
--------------------	--------------	---------------------	----------	----------	---	-----------

ID:Co\_Lq|Ubt4ATaJKEajxSMZzY4vF-tnBlQ9t?hwNk67QB5VVTpSGF0A0KCwvXFaWD?gz2hEr  
8.500 s Feb 23 2021 MiTek Industries, Inc. Fri Jun 25 17:34:00 2021 Page 1



Scale = 1:34.1

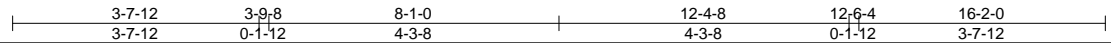
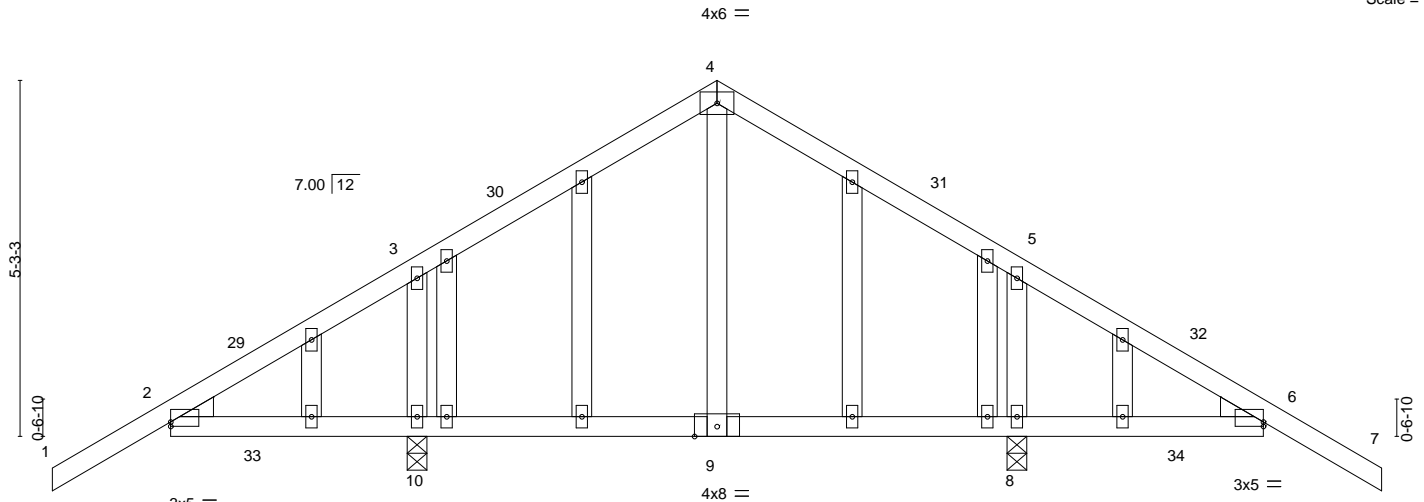


Plate Offsets (X,Y)--	[2:Edge,0-0-13], [6:Edge,0-0-13]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.16 9 >653 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -0.30 9 >360 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				Weight: 94 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
 WEDGE

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

**BRACING-**

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

**REACTIONS.**

(lb/size) 10=752/0-3-8 (min. 0-1-8), 8=752/0-3-8 (min. 0-1-8)  
 Max Horz 10=98(LC 11)  
 Max Uplift 10=-123(LC 12), 8=-36(LC 12)  
 Max Grav 10=773(LC 23), 8=773(LC 24)

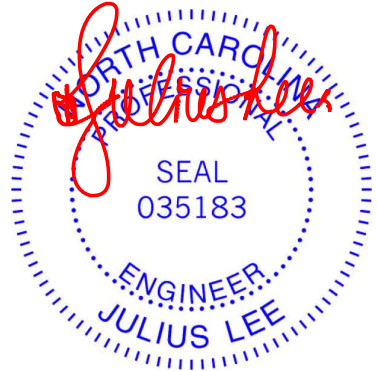
**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 5-8=-475/163, 3-10=-475/163

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior(1) 1-3-0 to 8-1-0, Exterior(2R) 8-1-0 to 11-1-0, Interior(1) 11-1-0 to 17-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



June 28, 2021

**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



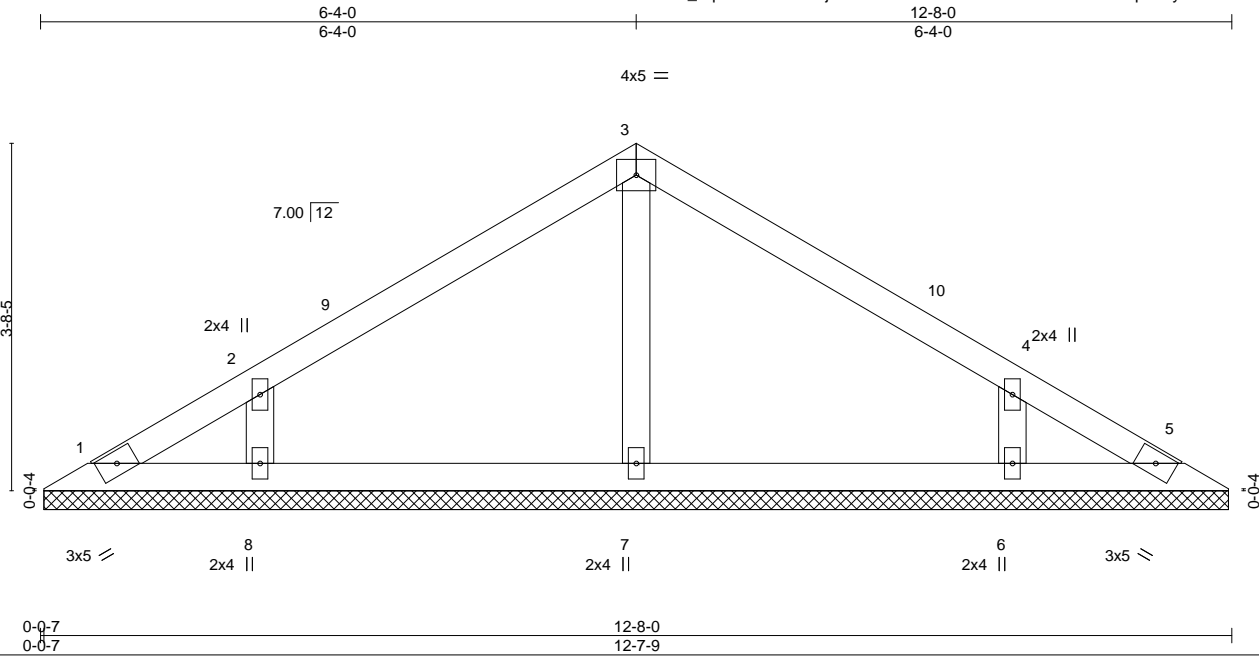
818 Soundside Road  
 Edenton, NC 27932

Job 21030655-01	Truss V3	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493435
--------------------	-------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:38 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-dOifXzdwDB2CavOHwD7fDpd50y7??Xukr8avLYz2hW3



Scale = 1:24.5

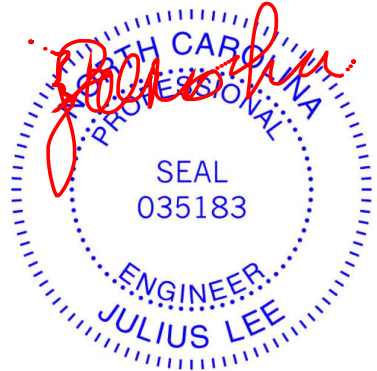
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 46 lb	FT = 20%

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

**REACTIONS.** All bearings 12-7-2.  
 (lb) - Max Horz 1=57(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=277(LC 1), 8=296(LC 23), 6=296(LC 24)

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

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



June 28, 2021

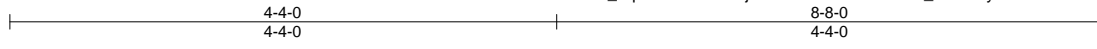
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss V3A	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493436
--------------------	--------------	----------------------	----------	----------	--

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

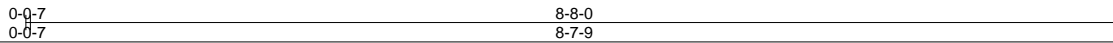
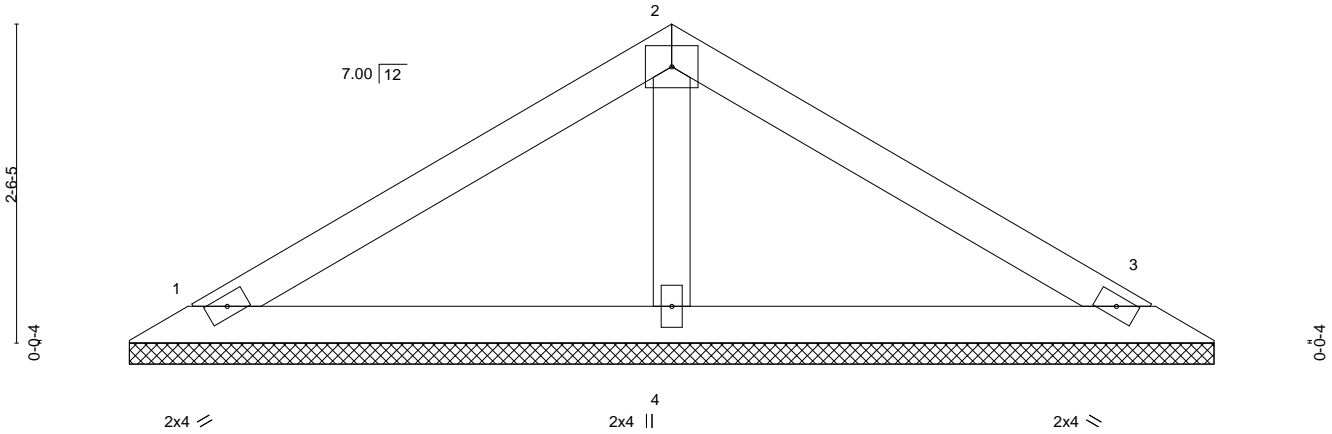
8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:39 2021 Page 1

ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-5aG1kJeY\_VA3C3yTUxeul1AEBMStk\_KU4oJSt\_z2hW2



4x5 =

Scale = 1:18.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 29 lb	FT = 20%

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

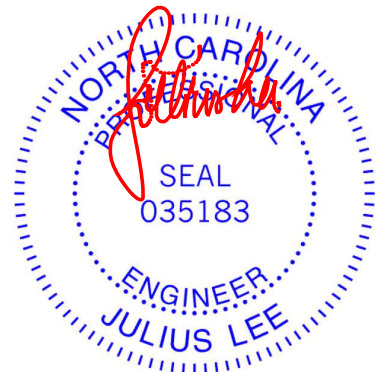
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=8-7-2, 3=8-7-2, 4=8-7-2  
 Max Horz 1=-38(LC 10)  
 Max Uplift 1=-16(LC 12), 3=-16(LC 12)  
 Max Grav 1=159(LC 1), 3=159(LC 1), 4=290(LC 1)

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

**NOTES-**

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



June 28, 2021

**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 21030655-01	Truss V3B	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493437
--------------------	--------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:39 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-5aG1kJeY\_VA3C3yTUxeul1AlcMShk\_zU4oJSt\_z2hW2



Scale = 1:9.5

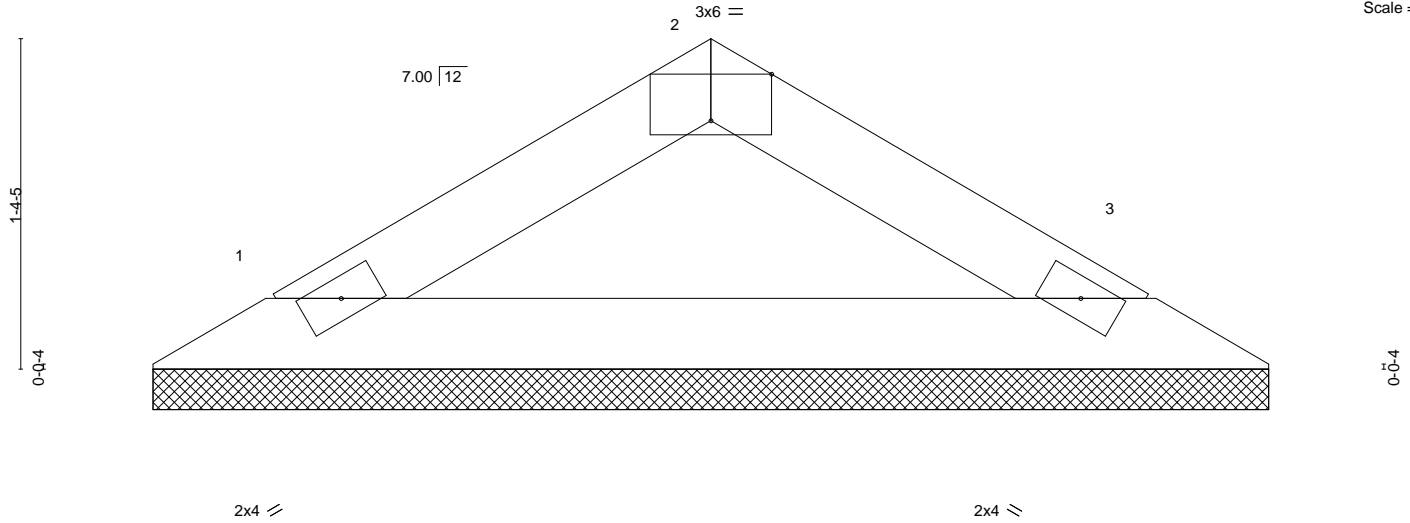


Plate Offsets (X,Y)--	[2:0-3-0,Edge]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.05	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.16	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 13 lb	FT = 20%

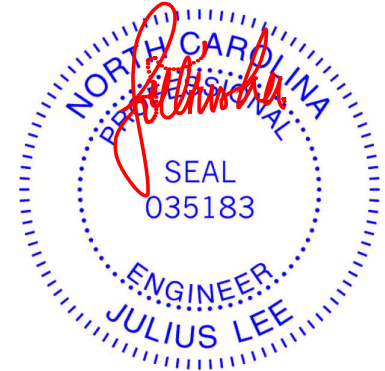
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 1=4-7-2, 3=4-7-2  
 Max Horz 1=-18(LC 10)  
 Max Uplift 1=-1(LC 12), 3=-1(LC 12)  
 Max Grav 1=143(LC 1), 3=143(LC 1)

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

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



June 28, 2021

**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

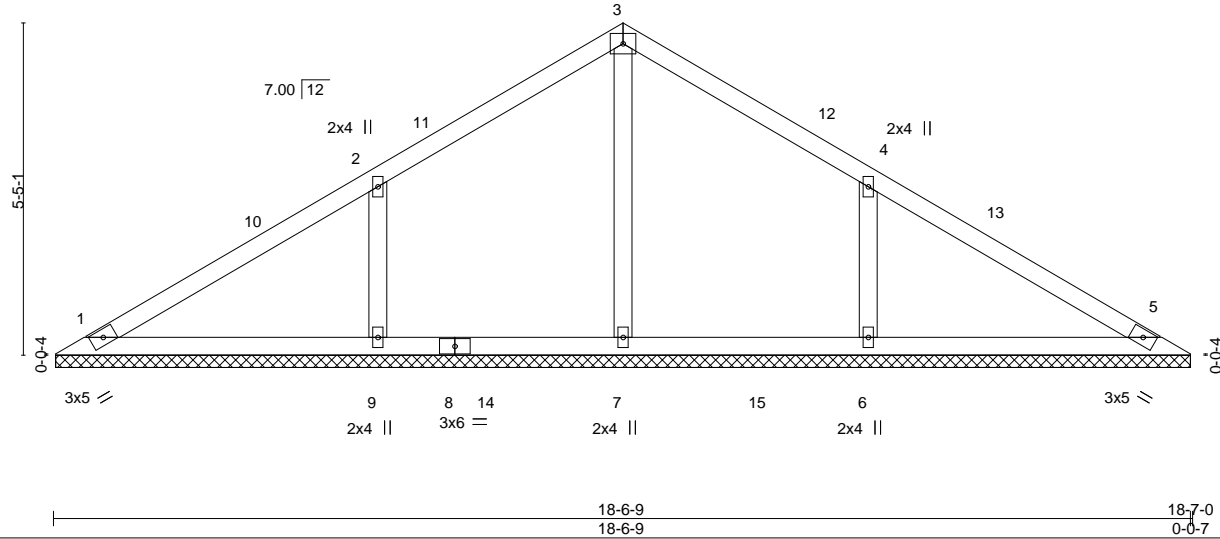
Job 21030655-01	Truss V2	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493438
--------------------	-------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:34 2021 Page 1  
ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-kcT8hcaP9zXm6l4WiO2jzSN5Lky3iQwWchCnz2hW7



Scale = 1:37.6



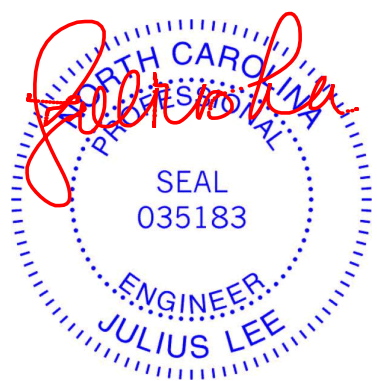
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 72 lb	FT = 20%

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

**REACTIONS.** All bearings 18-6-2.  
 (lb) - Max Horz 1=87(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 9, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=315(LC 17), 9=503(LC 17), 6=503(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-9=-315/113, 4-6=-315/113

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 9-3-8, Exterior(2R) 9-3-8 to 12-3-8, Interior(1) 12-3-8 to 18-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - N/A
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

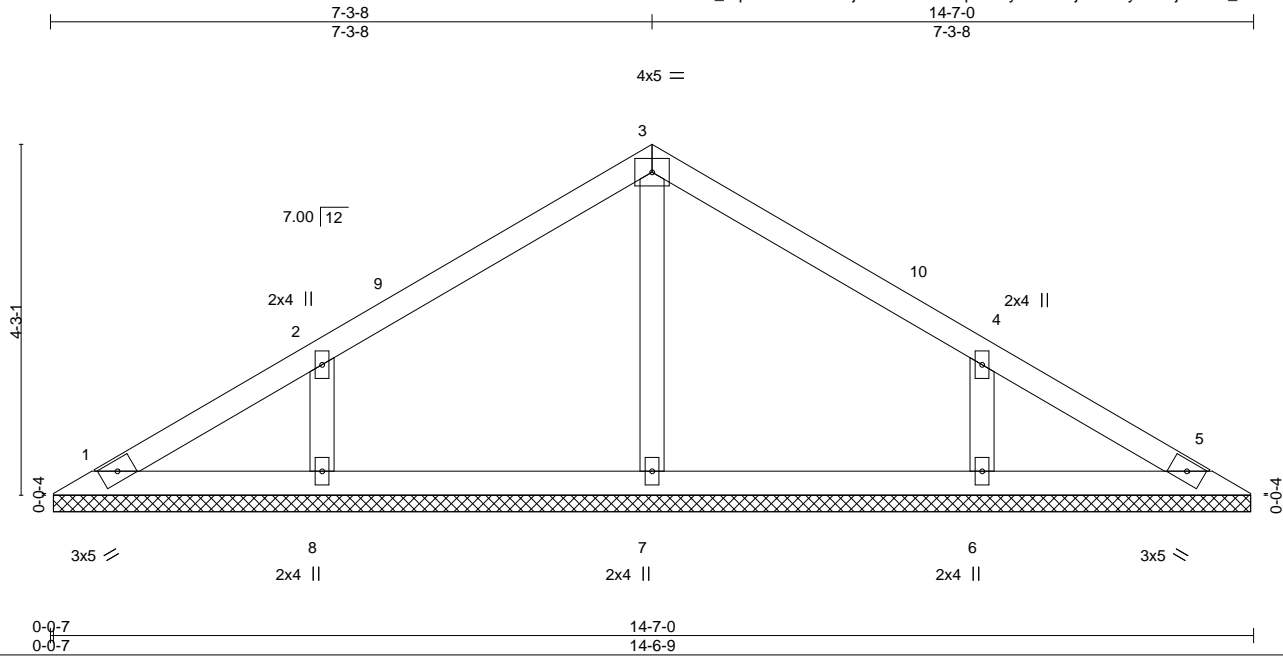


June 28, 2021

Job 21030655-01	Truss V2A	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493439
--------------------	--------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:35 2021 Page 1  
ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-Cp1Wuyb1wGfdjSfif5ZybB?ajk6PoA\_u9ALFKDz2hW6



Scale = 1:27.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 54 lb	FT = 20%

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

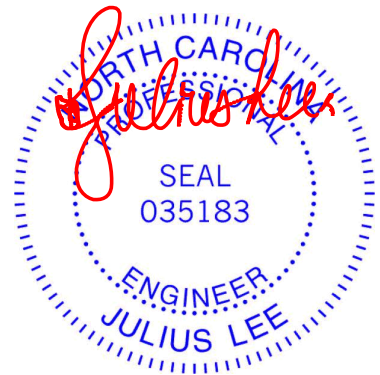
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 14-6-2.  
 (lb) - Max Horz 1=67(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=271(LC 1), 8=322(LC 23), 6=322(LC 24)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-3-8, Interior(1) 3-3-8 to 7-3-8, Exterior(2R) 7-3-8 to 10-3-8, Interior(1) 10-3-8 to 14-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) N/A
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

**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



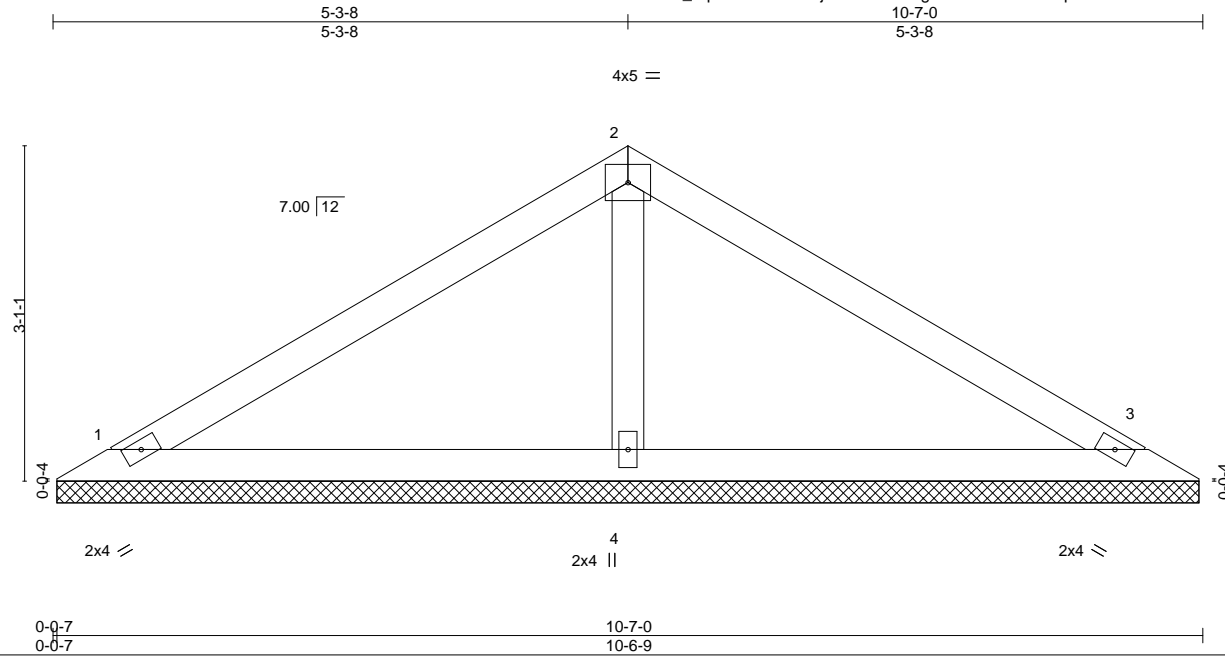


Job 21030655-01	Truss V2B	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493440
--------------------	--------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:36 2021 Page 1

ID:Co\_LqUBt4ATaJKEajxSMZzY4vF-g?bu6lbfhanULcEupo5B7OYic8QxXdG1Oq5oGfz2hW5



Scale = 1:21.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2018/TPI2014						Weight: 36 lb	FT = 20%

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

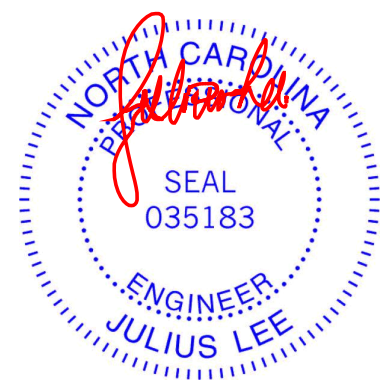
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=10-6-2, 3=10-6-2, 4=10-6-2  
 Max Horz 1=47(LC 10)  
 Max Uplift 1=-12(LC 12), 3=-12(LC 12)  
 Max Grav 1=180(LC 1), 3=180(LC 1), 4=400(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-260/82

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-3-8, Exterior(2R) 5-3-8 to 8-3-8, Interior(1) 8-3-8 to 10-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss V2C	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493441
--------------------	--------------	----------------------	----------	----------	--

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

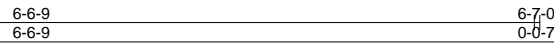
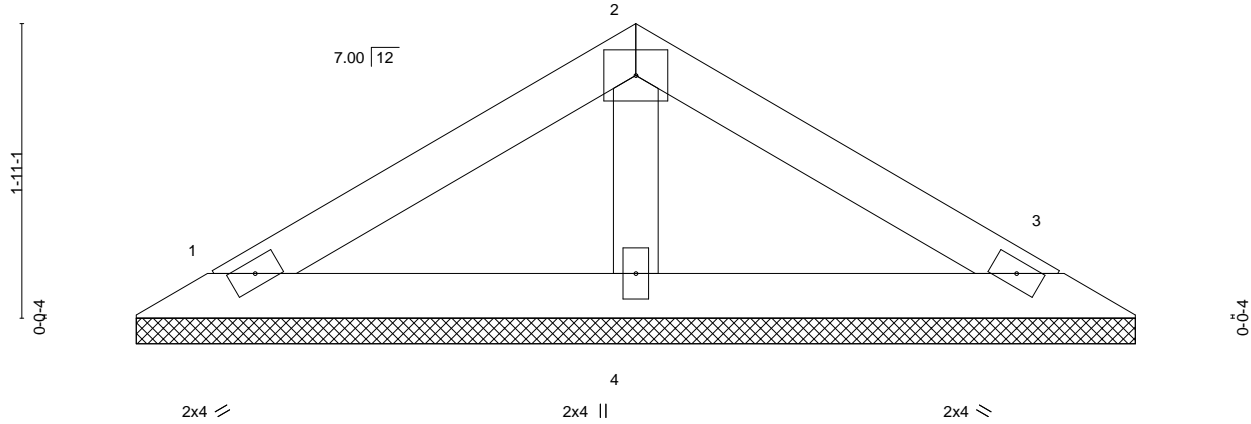
8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:37 2021 Page 1

ID:Co\_LqUbt4ATaJKEajxSMZyY4vF-9B9GJdcHSuvLzmp5NWcQgc4wqYnVG41BcUqLo6z2hW4



4x5 =

Scale = 1:15.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 21 lb	FT = 20%

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

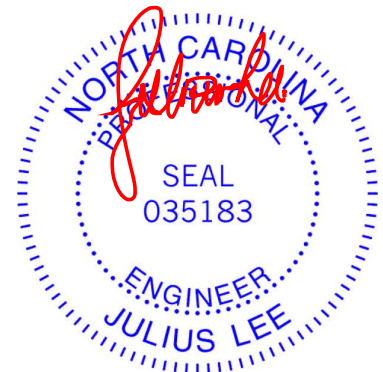
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=6-6-2, 3=6-6-2, 4=6-6-2  
Max Horz 1=-27(LC 10)  
Max Uplift 1=-11(LC 12), 3=-11(LC 12)  
Max Grav 1=115(LC 1), 3=115(LC 1), 4=210(LC 1)

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

**NOTES-**

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



June 28, 2021

**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



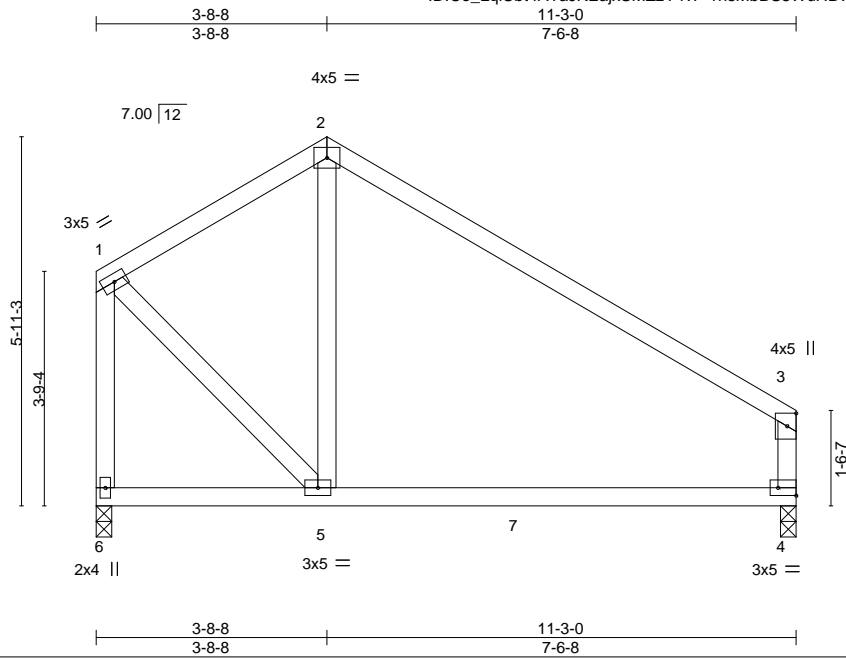
818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss T1	Truss Type Common	Qty 6	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493442
--------------------	-------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:24 2021 Page 1

ID:Co\_LqIUbt4ATaJKEajxSMZzY4vF-1hsMbBS8WuHBvmJb6HtNes2ZLJGhjArGdyB9rMz2hWH



Scale = 1:37.0

Plate Offsets (X, Y)--	[4:Edge,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.09	4-5	>999	240
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.16	4-5	>829	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	4	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					
								Weight: 58 lb FT = 20%

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

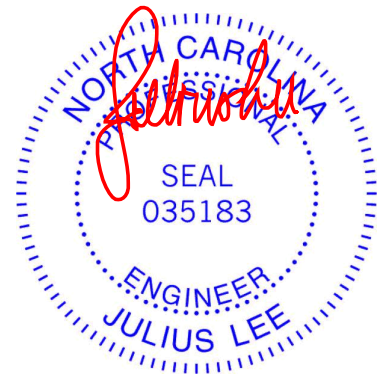
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 6=0-3-0, 4=0-3-0  
 Max Horz 6=-138(LC 10)  
 Max Uplift 6=-6(LC 12), 4=-1(LC 12)  
 Max Grav 6=507(LC 18), 4=498(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-339/104, 2-3=-424/82, 1-6=-494/101, 3-4=-366/106  
 BOT CHORD 4-5=-5/299  
 WEBS 1-5=-90/425

**NOTES-**

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



June 28, 2021

**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

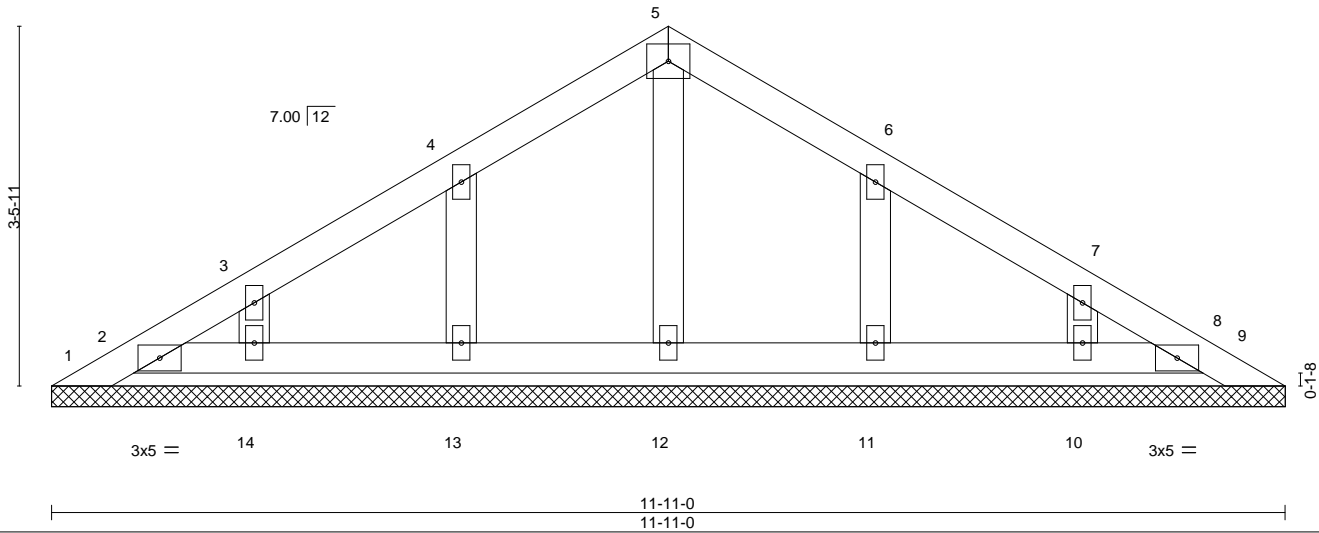
Job 21030655-01	Truss PB1	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493443
--------------------	--------------	---------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:22 2021 Page 1  
ID:Co\_LqlUbt4ATaJKEajxSMZzY4vF-5JlbAVQt\_H1TgS9C?srvZRzOzVhjFIK\_Aei3mTz2hWJ



Scale = 1:22.3



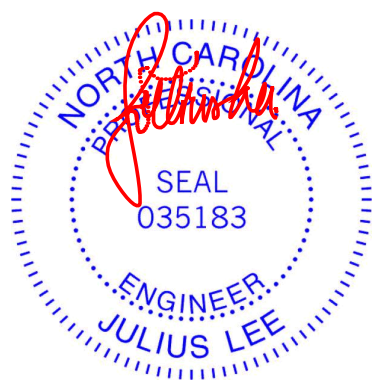
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 46 lb	FT = 20%

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

**REACTIONS.** All bearings 11-11-0.  
 (lb) - Max Horz 1--56(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 14, 11, 10  
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-11-8, Exterior(2R) 5-11-8 to 8-11-8, Interior(1) 8-11-8 to 11-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
  - 10) N/A
  - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 28, 2021

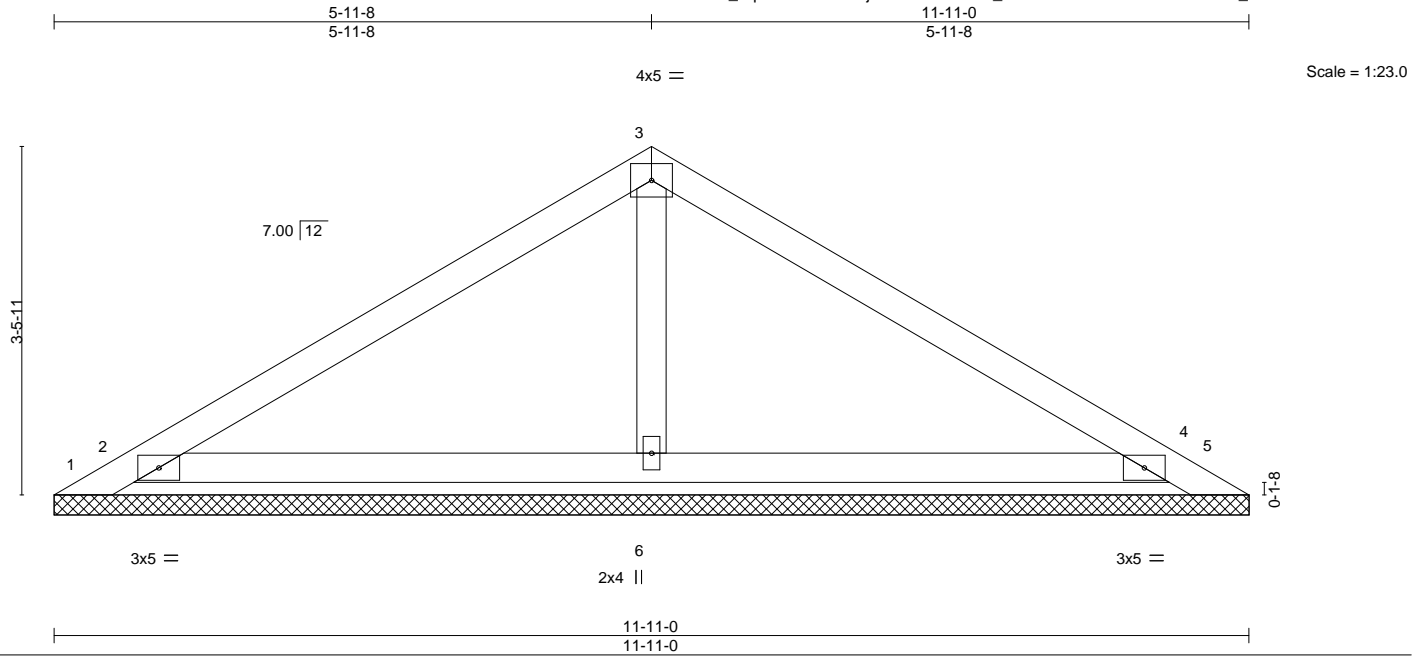
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 21030655-01	Truss PB1A	Truss Type GABLE	Qty 18	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493444
--------------------	---------------	---------------------	-----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:23 2021 Page 1  
ID:Co\_LqUbt4ATaJKEajxSMZzY4vF-ZVI\_NrRVla9KHckOYaM86fVTOvzP\_I27OIRcJvz2hWI



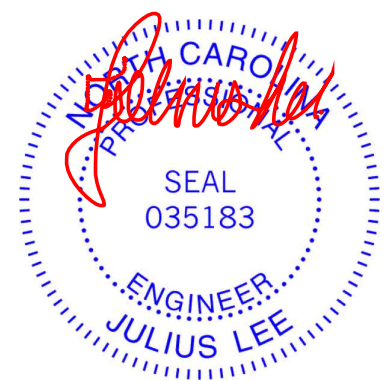
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%

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

**REACTIONS.** All bearings 11-11-0.  
 (lb) - Max Horz 1=56(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=323(LC 17), 5=317(LC 24)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=590(LC 23), 4=590(LC 24), 6=366(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-11-8, Exterior(2R) 5-11-8 to 8-11-8, Interior(1) 8-11-8 to 11-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 4-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=323, 5=317.
  - 9) N/A
  - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 28, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job 21030655-01	Truss T5	Truss Type COMMON	Qty 4	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493445
--------------------	-------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:33 2021 Page 1

ID:CNto9IPiDQOwHgOohSpNHizGeQU-GQvmUGZnOfPvU8VJ8gXUWmw2wxlrKEKbhss8fkZ2hW8

16-0-0 17-9-0  
8-0-0 1-9-0



4x6 =

Scale = 1:36.9

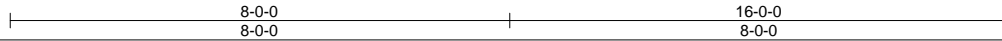
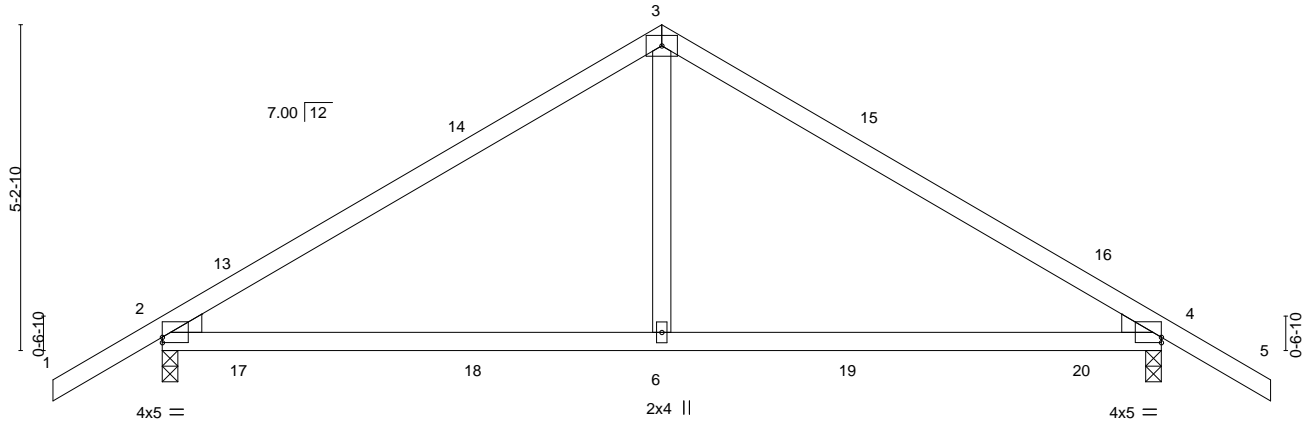


Plate Offsets (X, Y)-- [2:0-0-0,0-1-1], [4:Edge,0-1-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) 0.13 6-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.18 6-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 2 n/a n/a		
	Code IRC2018/TPI2014			Weight: 66 lb	FT = 20%

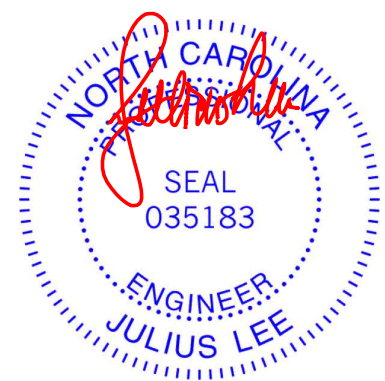
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

**REACTIONS.** (size) 2=0-3-0, 4=0-3-0  
Max Horz 2=-89(LC 10)  
Max Uplift 2=-152(LC 12), 4=-152(LC 12)  
Max Grav 2=745(LC 1), 4=745(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-796/394, 3-4=-796/394  
BOT CHORD 2-6=-238/581, 4-6=-238/581  
WEBS 3-6=-260/363

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior(1) 1-3-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 17-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

**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

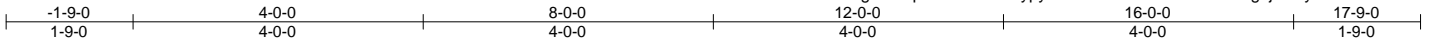


Job 21030655-01	Truss H5GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493446
--------------------	---------------	--------------------------	----------	----------	--

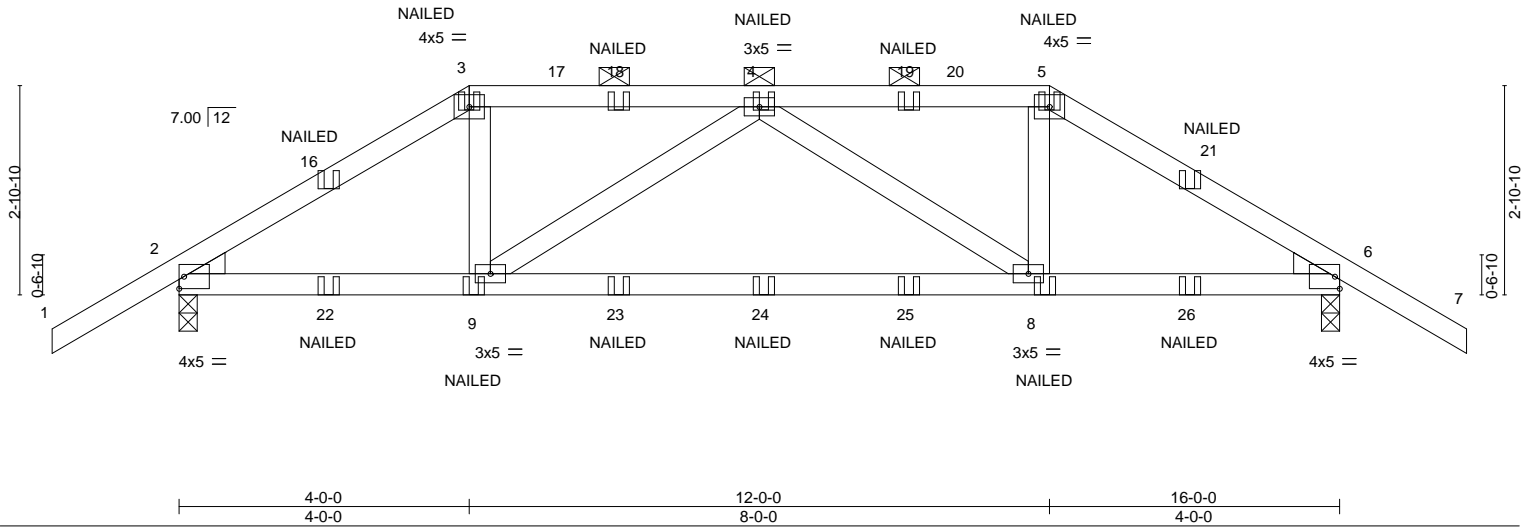
Carter Components (Lexington), Lexington, NC - 27295,

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:15 2021 Page 1

ID:CNto9iPiDQOwHgOohSpNHizGeQU-oypyi6LUe78TKN7s4uCGnzA5cg6j65QyY3VB1Nz2hWQ



Scale: 3/8"=1'



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	0.14 8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.28 8-9	>692	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 77 lb	FT = 20%

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

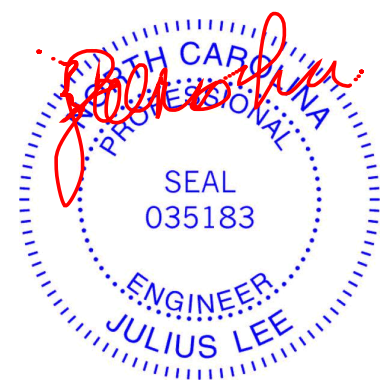
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-0, 6=0-3-0  
 Max Horz 2=-53(LC 6)  
 Max Uplift 2=-235(LC 8), 6=-235(LC 8)  
 Max Grav 2=932(LC 1), 6=933(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1237/302, 3-4=-1018/274, 4-5=-1020/275, 5-6=-1239/304  
 BOT CHORD 2-9=-223/998, 8-9=-301/1286, 6-8=-220/999  
 WEBS 3-9=-96/436, 4-9=-337/100, 4-8=-335/98, 5-8=-96/436

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-5=-60, 5-7=-60, 10-13=-20



June 28, 2021

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 21030655-01	Truss H5GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493446 Job Reference (optional)
--------------------	---------------	--------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:15 2021 Page 2  
ID:CNto9lPiDQOwHgOohSpNHizGeQU-oypyil6LUe78TKN7s4uCGnzA5cg6j65QyY3VB1Nz2hWQ

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 3=-35(B) 5=-35(B) 9=-19(B) 4=-35(B) 8=-19(B) 18=-35(B) 19=-35(B) 22=-52(B) 23=-19(B) 24=-19(B) 25=-19(B) 26=-52(B)

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

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



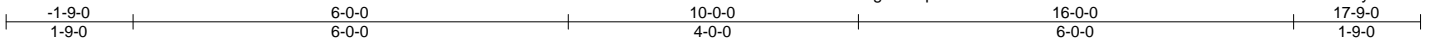
818 Soundside Road  
Edenton, NC 27932

Job 21030655-01	Truss H5	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493447
--------------------	-------------	-------------------	----------	----------	--

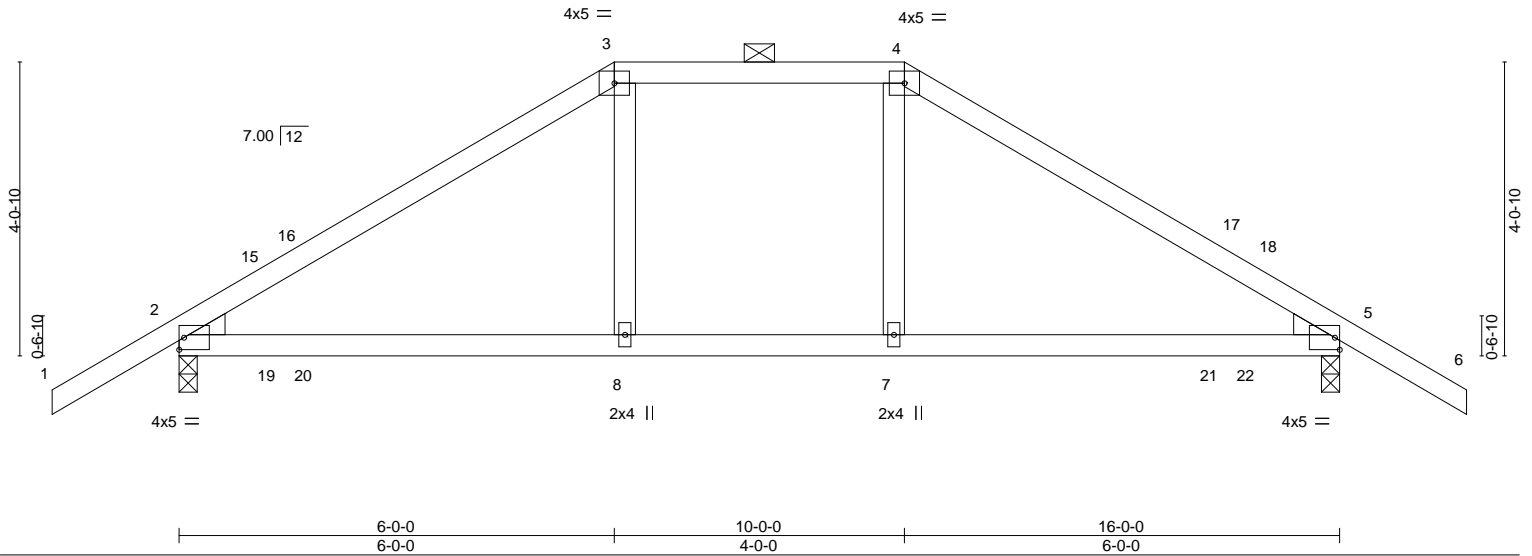
Carter Components (Lexington), Lexington, NC - 27295,

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:13 2021 Page 1

ID:CNto9IPiDQOwHgOohSpNHizGeQU-raiCHQKE6Wul44zTzTAoiY5kwtWeeCOF5I04yVz2hWS



Scale: 3/8"=1'



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.10 8-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.14 8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.02 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 69 lb	FT = 20%

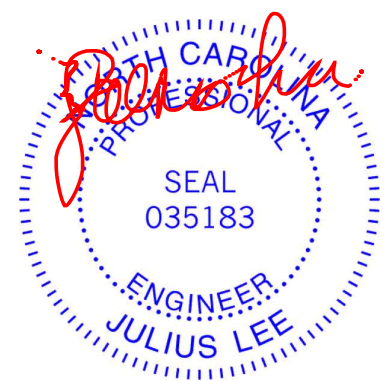
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-0, 5=0-3-0  
 Max Horz 2=-71(LC 10)  
 Max Uplift 2=-152(LC 12), 5=-152(LC 12)  
 Max Grav 2=745(LC 1), 5=745(LC 1)

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

TOP CHORD 2-3=-845/406, 3-4=-648/389, 4-5=-845/423  
 BOT CHORD 2-8=-269/644, 7-8=-274/648, 5-7=-269/644

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



June 28, 2021

**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

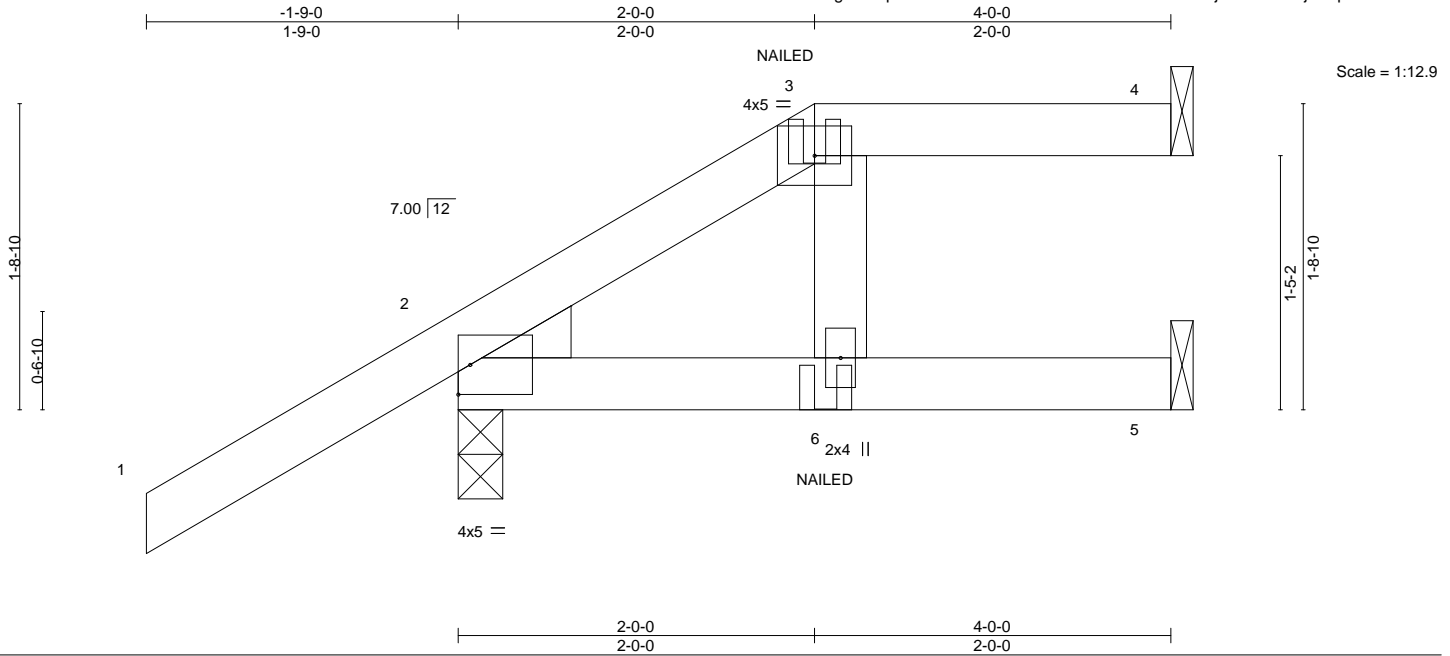


Job 21030655-01	Truss J5A	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493449
--------------------	--------------	--------------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:16 2021 Page 1

ID:CNto9lPiDQOwHgOohSpNHizGeQU-G9NKvSM6ORGKxXi2eckVKAjJN4btraz5njEkZpz2hWP



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.25	Vert(LL) 0.02	6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.03	6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 18 lb	FT = 20%

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-0, 5=Mechanical  
 Max Horz 2=62(LC 8)  
 Max Uplift 4=-17(LC 4), 2=-73(LC 8), 5=-22(LC 5)  
 Max Grav 4=58(LC 1), 2=282(LC 1), 5=92(LC 3)

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

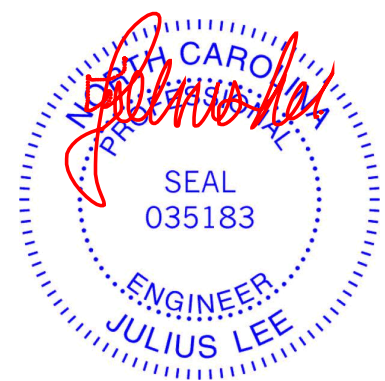
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
  - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 5-7=-20

Concentrated Loads (lb)  
 Vert: 6=8(F)



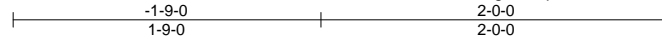
June 28, 2021

Job 21030655-01	Truss J5S	Truss Type JACK-OPEN	Qty 2	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493450
--------------------	--------------	-------------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:17 2021 Page 1

ID:CNto9IPiDQOwHgOohSpNHizGeQU-kLxi7oNl9kOAZhHFCJFksOFUdUzza1WE0N\_i5Gz2hWO



Scale = 1:13.1

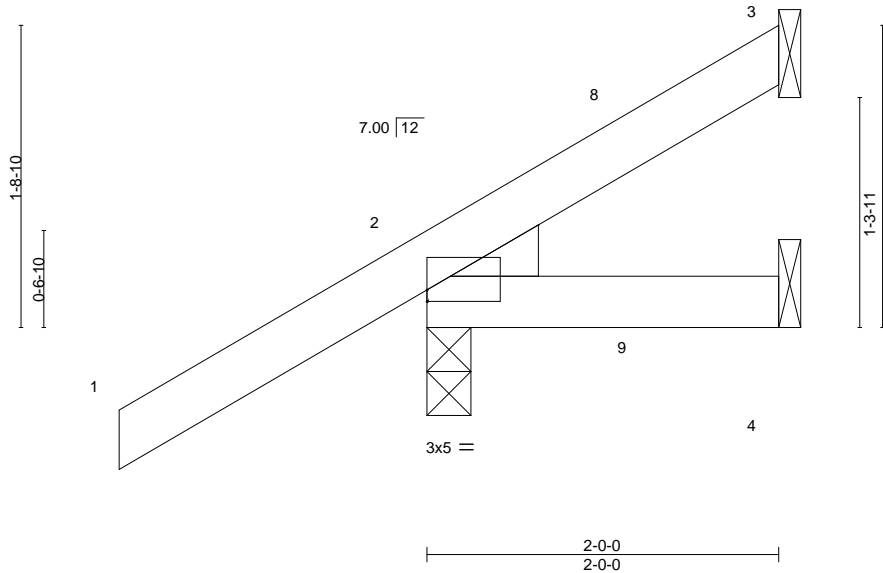


Plate Offsets (X,Y)--	[2:Edge,0-0-13]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) 0.00 7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 10 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

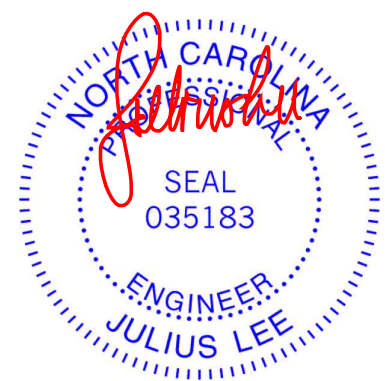
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-0, 4=Mechanical  
Max Horz 2=61(LC 12)  
Max Uplift 3=9(LC 9), 2=64(LC 12), 4=5(LC 17)  
Max Grav 3=31(LC 1), 2=231(LC 1), 4=30(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior(1) 1-3-0 to 1-11-14 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

**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



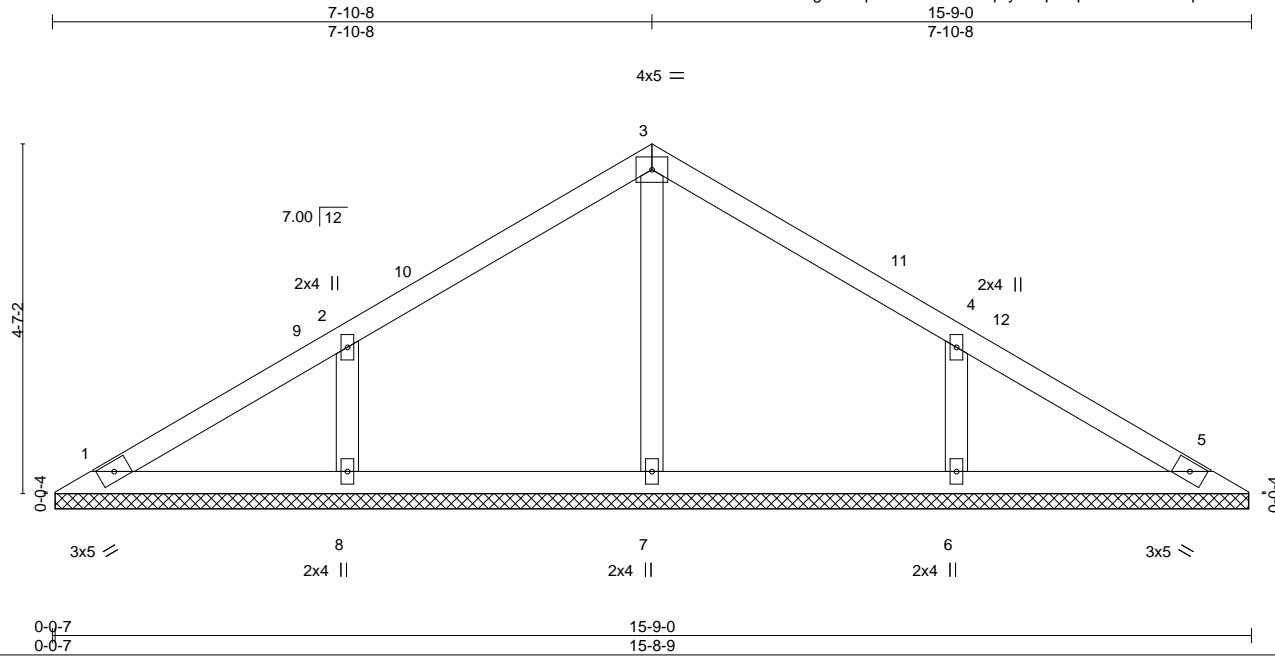


Job 21030655-01	Truss V5	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493451
--------------------	-------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:40 2021 Page 1

ID:CNto9lPIDQOwHgOohSpNHizGeQU-ZmqPfyAlplwqDXf2e97IEiQ1lphTQ7dIS3?PQz2hW1



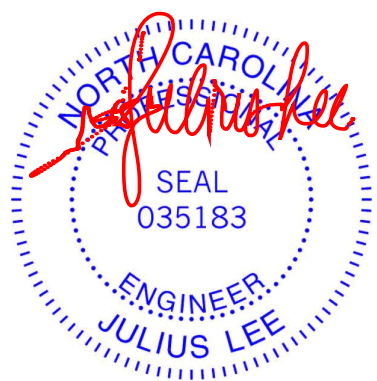
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 60 lb	FT = 20%

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

**REACTIONS.** All bearings 15-8-2.  
 (lb) - Max Horz 1=-67(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=262(LC 1), 8=347(LC 23), 6=347(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-262/94, 4-6=-262/94

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-10-8, Exterior(2R) 7-10-8 to 10-10-8, Interior(1) 10-10-8 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) N/A
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

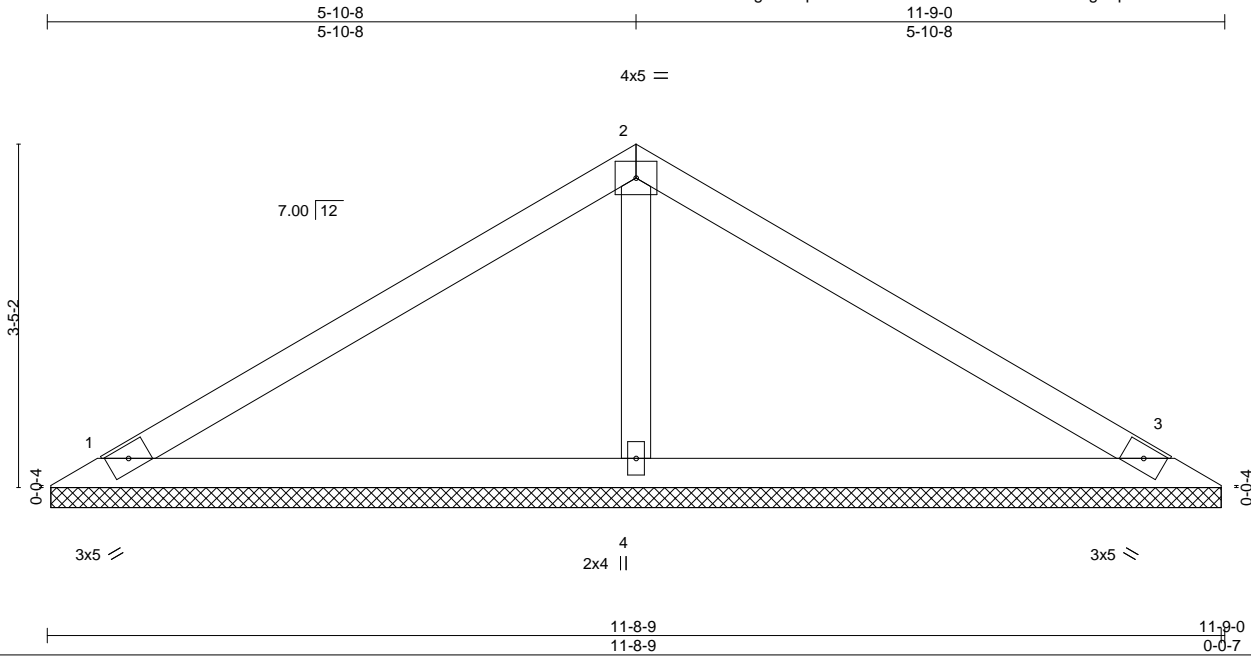
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
--	--

Job 21030655-01	Truss V5A	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493452
--------------------	--------------	----------------------	----------	----------	--

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

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:41 2021 Page 1

ID:CNto9IPiDQOwHgOohSpNHizGeQU-1zOn9?foW6QnRN6scMgMqSFYW96BCiHnX6oZxtz2hW0



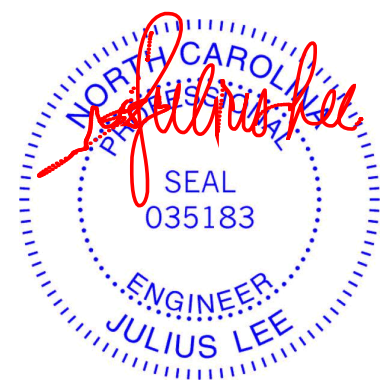
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 40 lb	FT = 20%

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

**REACTIONS.** (size) 1=11-8-2, 3=11-8-2, 4=11-8-2  
 Max Horz 1=49(LC 11)  
 Max Uplift 1=8(LC 12), 3=8(LC 12)  
 Max Grav 1=202(LC 1), 3=202(LC 1), 4=449(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-292/70

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-10-8, Exterior(2R) 5-10-8 to 8-10-8, Interior(1) 8-10-8 to 11-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

**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

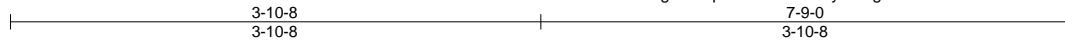
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 21030655-01	Truss V5B	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 15 - 2604 Elev A-Roof Truss T24493453
--------------------	--------------	----------------------	----------	----------	--

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

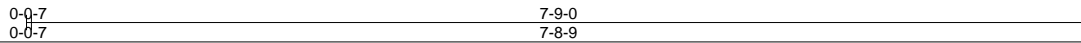
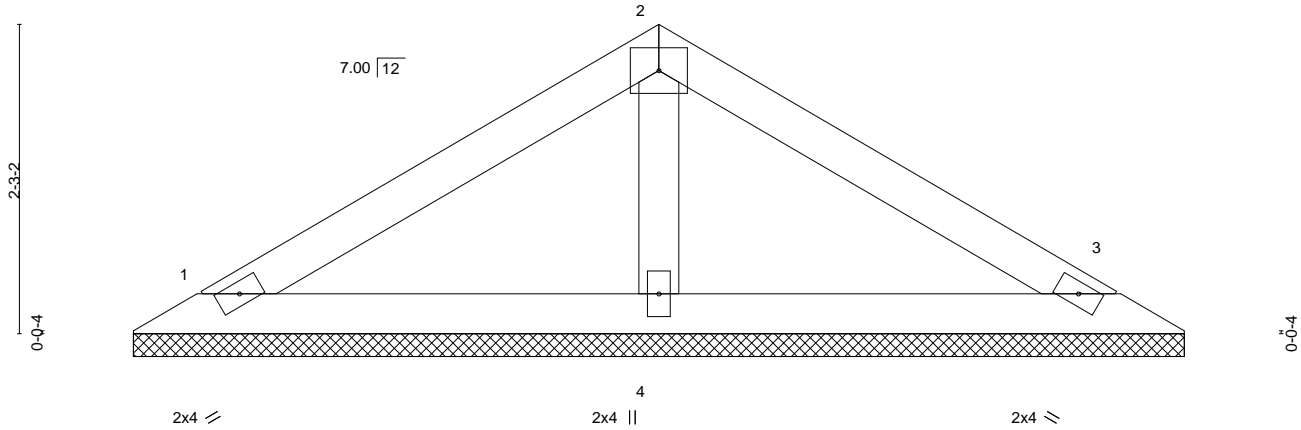
8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 16:15:42 2021 Page 1

ID:CNto9lPiDQOwHgOohSpNHizGeQU-V9y9MLgQHqYd3Xh293BbNfomTZV5xL9wmlY6UJz2hW?



4x5 =

Scale = 1:16.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 25 lb	FT = 20%

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

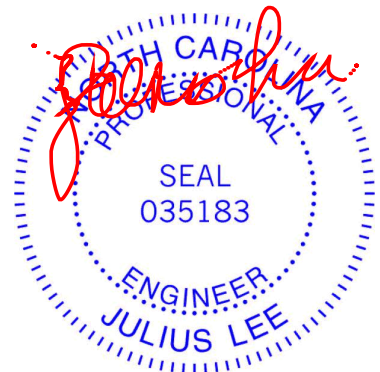
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=7-8-2, 3=7-8-2, 4=7-8-2  
 Max Horz 1=30(LC 11)  
 Max Uplift 1=9(LC 12), 3=9(LC 12)  
 Max Grav 1=139(LC 1), 3=139(LC 1), 4=255(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 3-10-8, Exterior(2R) 3-10-8 to 6-10-8, Interior(1) 6-10-8 to 7-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 28, 2021

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

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

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

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



818 Soundside Road  
 Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

**4 X 4**

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

## LATERAL BRACING LOCATION



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

## BEARING



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

### Industry Standards:

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

© 2012 MITteK® All Rights Reserved



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.