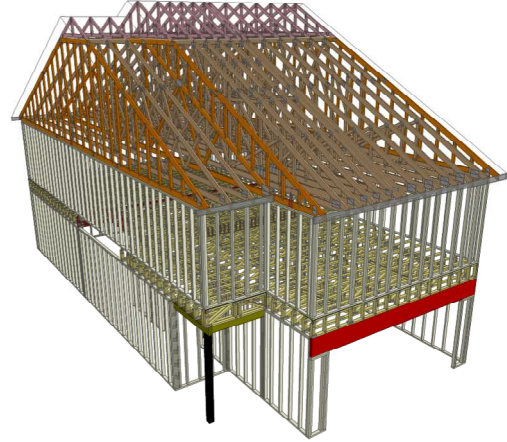




Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450



Builder: DRB HOMES
Model: 191 FaNC
CALLAWAY 6

THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

Approved by: _____

Date: _____

General Notes: ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

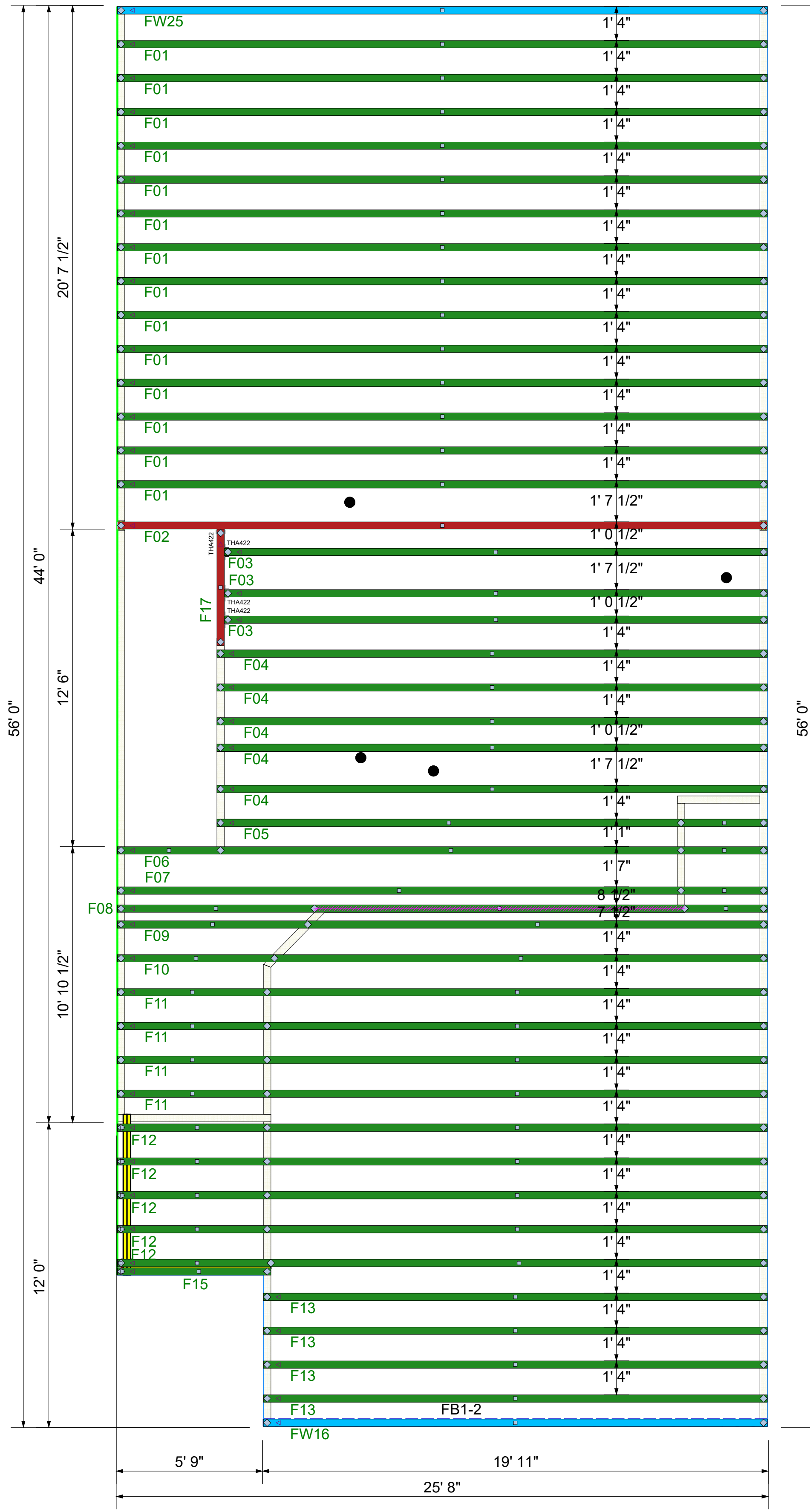
Revisions	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.



DRB HOMES
191 FARM AT NEILLS CREEK
CALLAWAY 6
COMPONENT PLAN
PLACEMENT PLAN

Scale:	NTS
Date:	2/14/2024
Designer:	ND
Project Number:	24020061
Sheet Number:	1/1

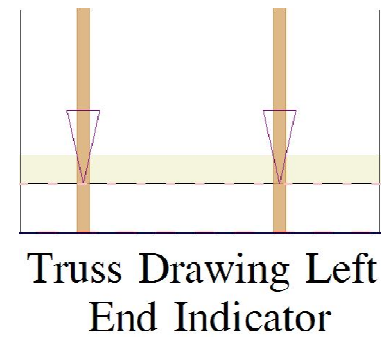


Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
FB1-2	20' 0"	2.0 RigidLam DF LVL 1-3/4 x 20	2	2	FF

Truss Connector Total List		
Manuf	Product	Qty
Simpson	THA422	4

** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT.

** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.



** TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS. ** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES. ** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE. ** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH. ** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

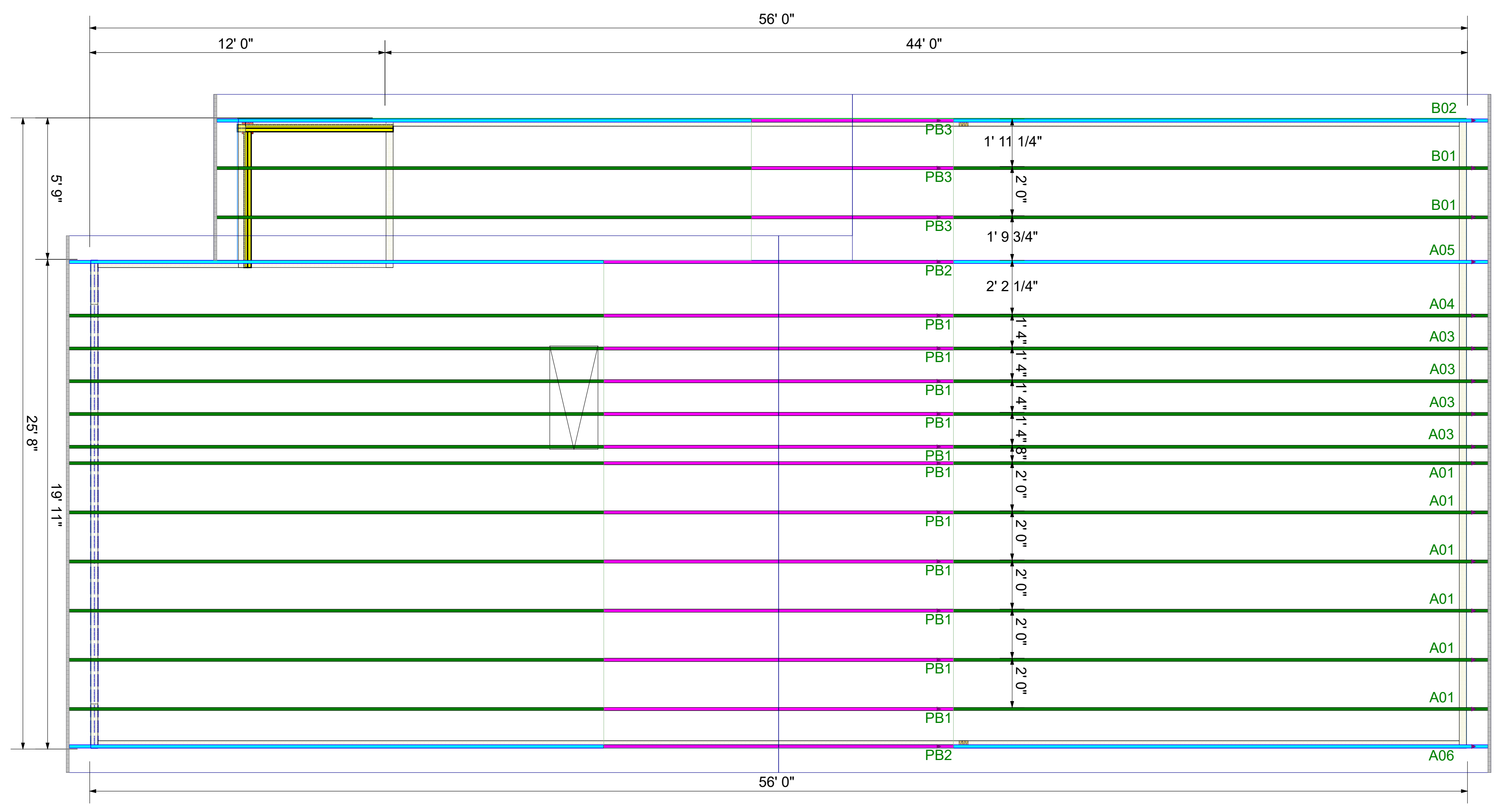
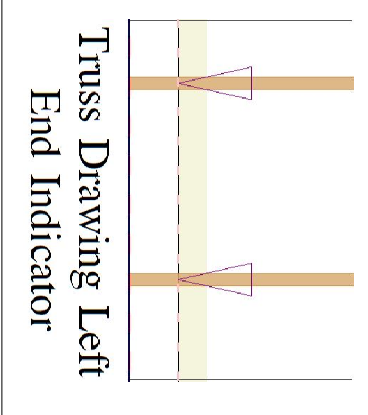
** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT.

** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.

** TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS.

** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES.

** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.



** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

Scale:	NTS
Date:	2/14/2024
Designer:	ND
Project Number:	24020061
Sheet Number:	1/1

DRB HOMES
 191 FARM AT NEILLS CREEK
 CALLAWAY 6
**COMPONENT
 PLACEMENT PLAN**



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onofrio Drive: Madison, WI 53179

Revisions	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 24020061
DRB - 191 FaNC

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 (Sanford, NC)).

Pages or sheets covered by this seal: I63640960 thru I63640986

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



February 15, 2024

Gilbert, Eric

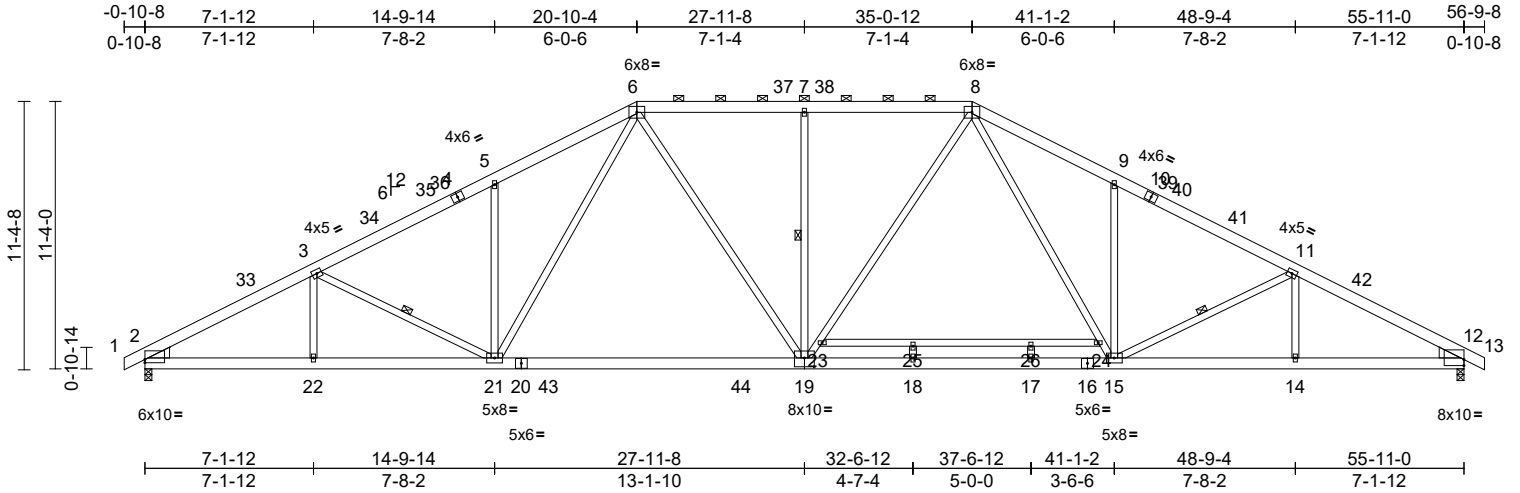
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 24020061	Truss A01	Truss Type Piggyback Base	Qty 6	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640960
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Page: 1



Scale = 1:97.7

Plate Offsets (X, Y): [2:Edge,0-1-10], [12:Edge,0-3-2], [19:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.39	19-21	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.69	17-18	>970	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.15	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 447 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* 19-6,7-19,19-8,15-8,21-6,23-24:2x4 SP No.2
WEDGE	Left: 2x6 SP No.2 Right: 2x6 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-5-8 oc purlins, except 2-0-0 oc purlins (3-7-0 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-19, 11-15, 3-21
REACTIONS	
(size)	2=0-3-8, 12=0-3-8
Max Horiz	2=173 (LC 14)
Max Uplift	2=-170 (LC 14), 12=-119 (LC 15)
Max Grav	2=2603 (LC 45), 12=2624 (LC 45)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/23, 2-3=-4562/318, 3-5=-4237/334, 5-6=-4297/461, 6-7=-3457/307, 7-8=-3457/307, 8-9=-4350/320, 9-11=-4290/192, 11-12=-4599/235, 12-13=0/23
BOT CHORD	2-22=-317/3972, 21-22=-317/3972, 18-21=-24/3109, 17-18=0/3100, 15-17=0/3100, 14-15=-106/4005, 12-14=-126/4005
WEBS	6-19=0/781, 7-19=-715/205, 19-23=-100/747, 8-23=-87/745, 9-15=-742/245, 8-24=-96/1488, 15-24=-112/1484, 11-15=-307/252, 11-14=-112/69, 3-22=-58/118, 3-21=-366/191, 5-21=-744/245, 6-21=-255/1430, 23-25=-8/32, 25-26=-8/32, 24-26=-8/32, 18-25=0/17, 17-26=0/29

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-8-10, Interior (1) 4-8-10 to 12-11-6, Exterior(2R) 12-11-6 to 42-11-10, Interior (1) 42-11-10 to 51-2-6, Exterior(2E) 51-2-6 to 56-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof live load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 35-1-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



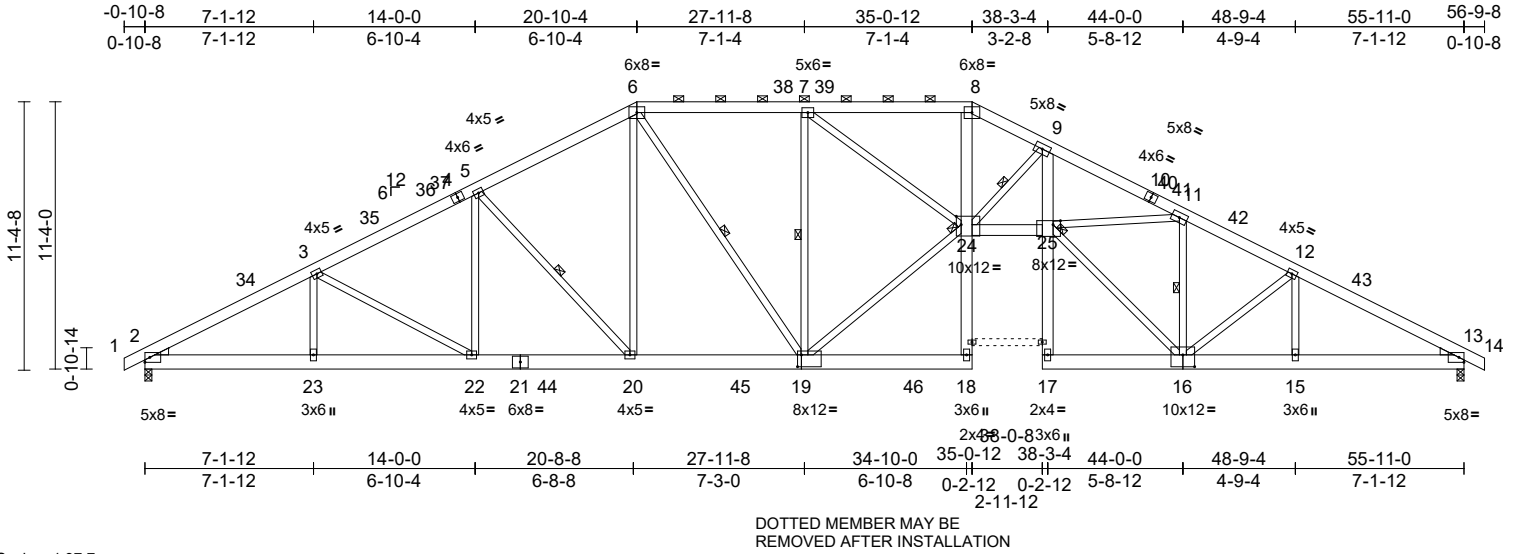
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss A03	Truss Type Piggyback Base	Qty 4	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640961
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:25:58
ID:NRXfXQrtmiUG_8GboTymkBznaD3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwKRCDoi7J4zJC?ft

Page: 1



Scale = 1:97.7

Plate Offsets (X, Y): [16:0-6-0,0-6-0], [19:0-2-0,0-6-0], [24:0-2-8,0-4-4], [25:0-3-12,0-2-0]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.43	17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.78	17	>865	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.48	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 530 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
19-6,7-19,24-19,25-11,25-16,20-6:2x4 SP
No.2, 18-8,17-9,24-25:2x6 SP No.2
WEDGE
Left: 2x4 SP No.3
Right: 2x4 SP No.3

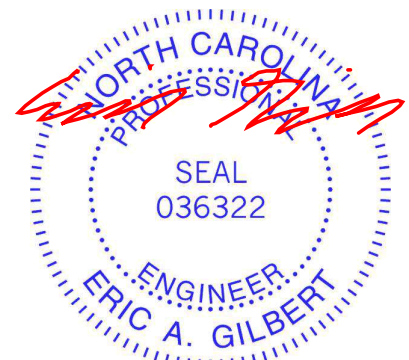
WEBS
6-19=-105/352, 7-19=-1724/207,
11-16=-2138/225, 18-24=0/92,
8-24=-169/1813, 12-16=-151/79,
12-15=-61/54, 17-25=0/64, 9-25=-185/2389,
24-25=-435/5662, 7-24=-150/2422,
19-24=-169/2693, 11-25=-224/3218,
16-25=-290/3365, 9-24=-2407/264,
3-23=-28/98, 3-22=-234/98, 5-22=0/333,
5-20=-676/150, 6-20=-57/687

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except 2-0-0 oc purlins (5-1-3 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-19, 7-19, 11-16, 9-24, 5-20
JOINTS
1 Brace at Jt(s): 24, 25
REACTIONS (size) 2=0-3-8, 13=0-3-8
Max Horiz 2=115 (LC 14)
Max Uplift 2=-172 (LC 14), 13=-181 (LC 15)
Max Grav 2=1665 (LC 45), 13=1623 (LC 45)

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-8-10, Interior (1) 4-8-10 to 12-11-6, Exterior(2R) 12-11-6 to 42-11-10, Interior (1) 42-11-10 to 51-2-6, Exterior(2E) 51-2-6 to 56-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-2944/329, 3-5=-2708/354, 5-6=-2294/363, 6-7=-2096/373, 7-8=-4037/496, 8-9=-4470/536, 9-11=-6337/683, 11-12=-2706/371, 12-13=-2848/346, 13-14=0/16
BOT CHORD 15-17=-236/2487, 13-15=-236/2487, 2-23=-312/2572, 22-23=-312/2572, 20-22=-227/2394, 18-20=-125/1976



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



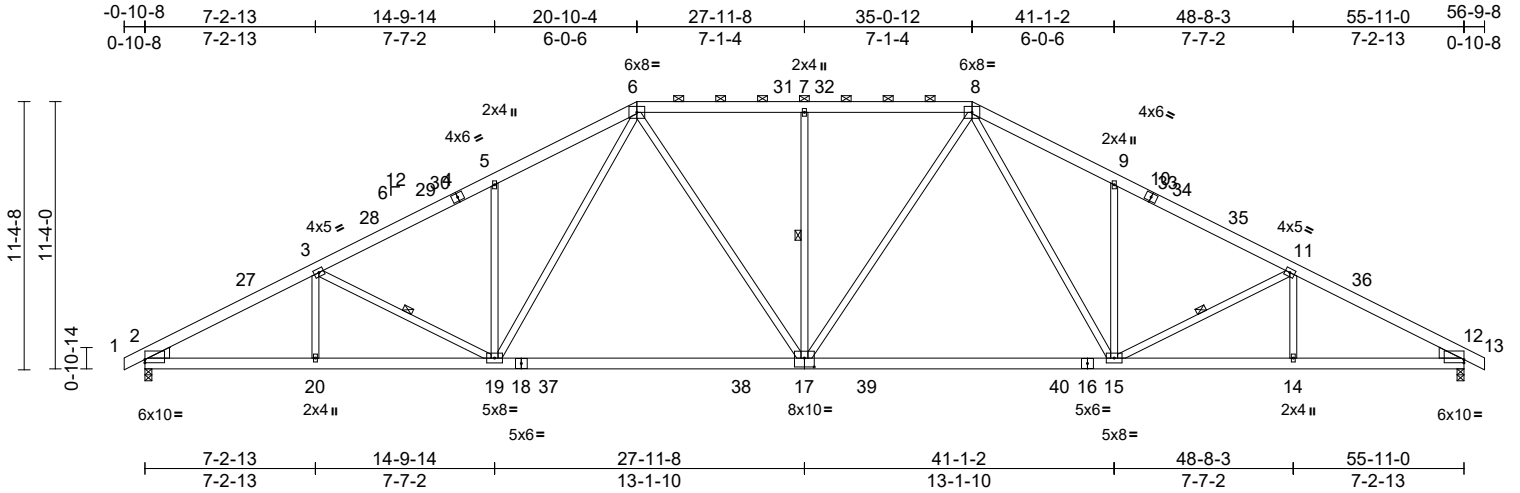
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss A04	Truss Type Piggyback Base	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640962
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:00
ID:NRxfXQrtmiUG_8GboTymkBznaD3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:97.7

Plate Offsets (X, Y): [2:Edge,0-1-10], [12:Edge,0-1-10], [17:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.38	17-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.66	17-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.15	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 428 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 7-17,17-8,17-6,19-6,15-8:2x4 SP No.2
 WEDGE Left: 2x6 SP No.2
 Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or
 2-6-5 oc purlins, except
 2-0-0 oc purlins (3-7-10 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
 bracing.
 WEBS 1 Row at midpt 7-17, 3-19, 11-15

REACTIONS

(size) 2=0-3-8, 12=0-3-8
 Max Horiz 2=173 (LC 14)
 Max Uplift 2=-244 (LC 14), 12=-244 (LC 15)
 Max Grav 2=2575 (LC 45), 12=2575 (LC 45)

FORCES

(lb) - Maximum Compression/Maximum
 Tension
 TOP CHORD 1-2=0/23, 2-3=-4506/466, 3-5=-4178/485,
 5-6=-4238/613, 6-7=-3382/511,
 7-8=-3382/511, 8-9=-4238/613,
 9-11=-4178/485, 11-12=-4506/466,
 12-13=0/23
 BOT CHORD 2-20=-447/3922, 19-20=-447/3922,
 15-19=-171/3054, 14-15=-310/3922,
 12-14=-310/3922
 WEBS 7-17=-716/204, 8-17=-101/744,
 6-17=-101/744, 3-20=-57/118,
 3-19=-373/186, 5-19=-737/244,
 6-19=-231/1434, 9-15=-737/244,
 8-15=-231/1434, 11-15=-373/187,
 11-14=-57/118

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
 Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior
 zone and C-C Exterior(2E) -0-10-8 to 4-8-10, Interior (1)
 4-8-10 to 12-11-6, Exterior(2R) 12-11-6 to 42-11-10,
 Interior (1) 42-11-10 to 51-2-6, Exterior(2E) 51-2-6 to
 56-9-8 zone; cantilever left and right exposed ; end
 vertical left and right exposed;C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate
 DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;
 Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
 design.
- This truss has been designed for greater of min roof live
 load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on
 overhangs non-concurrent with other live loads.
- 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
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors
 recommended to connect truss to bearing walls due to
 UPLIFT at jt(s) 2 and 12. This connection is for uplift
 only and does not consider lateral forces.
- This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and
 R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size
 or the orientation of the purlin along the top and/or
 bottom chord.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

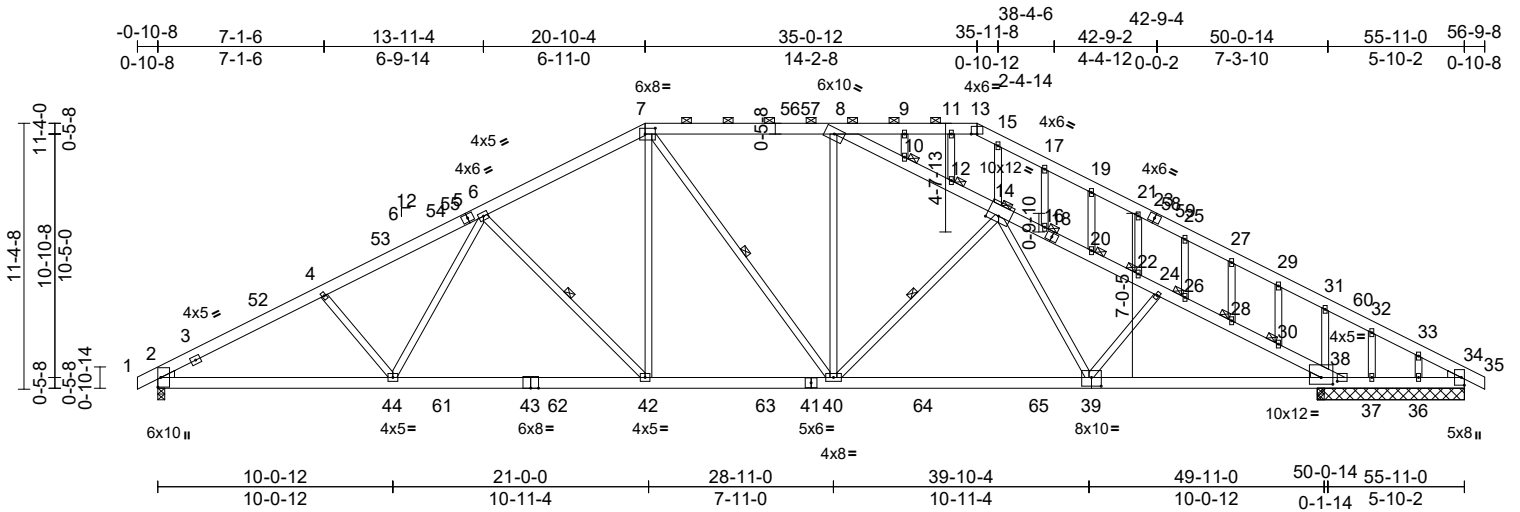
Job 24020061	Truss A05	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640963
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:02

Page: 1

ID:lddnOXHqsyV1qLmU4Y18VaznZrF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCdoi7J4zJC7f



Scale = 1:98.6

Plate Offsets (X, Y): [7:0-5-4,0-3-0], [14:0-6-0,0-3-0], [38:0-6-0,0-3-8], [38:0-8-5,0-2-0], [39:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.30	42-44	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.53	42-44	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.14	34	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 494 lb	FT = 20%

LUMBER	TOP CHORD	1-2=0/27, 2-4=-4048/416, 4-6=-3892/427, 6-7=-3116/443, 7-8=-2784/443, 8-9=-1006/246, 9-11=-1006/246, 11-13=-1006/246, 13-15=-1007/247, 15-17=-1120/231, 17-19=-1137/202, 19-21=-1176/182, 21-25=-1168/132, 25-27=-1151/87, 27-29=-1170/69, 29-31=-1134/32, 31-32=-1103/0, 32-33=-1132/0, 33-34=-1165/0, 34-35=0/23, 8-10=-1988/215, 10-12=-2033/228, 12-14=-1998/222, 14-16=-2479/252, 16-20=-2523/270, 20-22=-2547/279, 22-24=-2622/319, 24-26=-2674/350, 26-28=-2736/385, 28-30=-2761/391, 30-38=-2851/422	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-8-10, Interior (1) 4-8-10 to 12-11-6, Exterior(2R) 12-11-6 to 42-11-10, Interior (1) 42-11-10 to 51-2-6, Exterior(2E) 51-2-6 to 56-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP No.2	6-7=-3116/443, 7-8=-2784/443, 8-9=-1006/246, 9-11=-1006/246, 11-13=-1006/246, 13-15=-1007/247, 15-17=-1120/231, 17-19=-1137/202, 19-21=-1176/182, 21-25=-1168/132, 25-27=-1151/87, 27-29=-1170/69, 29-31=-1134/32, 31-32=-1103/0, 32-33=-1132/0, 33-34=-1165/0, 34-35=0/23, 8-10=-1988/215, 10-12=-2033/228, 12-14=-1998/222, 14-16=-2479/252, 16-20=-2523/270, 20-22=-2547/279, 22-24=-2622/319, 24-26=-2674/350, 26-28=-2736/385, 28-30=-2761/391, 30-38=-2851/422	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.
BOT CHORD	2x6 SP 2400F 2.0E *Except* 41-39,43-41:2x6 SP No.2	2-44=-429/3514, 42-44=-304/3227, 40-42=-133/2718, 38-40=-230/3435, 37-38=0/997, 36-37=0/997, 34-36=0/997	4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
WEBS	2x4 SP No.3 *Except* 42-7,40-7,40-8:2x4 SP No.2, 38-38:2x6 SP No.2	9-10=107/34, 11-12=-13/133, 14-15=-24/202, 16-17=-122/43, 19-20=-68/22, 21-22=-263/106, 25-26=-249/101, 27-28=-68/20, 29-30=-190/68, 31-38=-203/102, 32-37=-48/47, 33-36=-36/80, 7-42=-72/1078, 7-40=-244/318, 4-44=-216/191, 6-44=-15/518, 6-42=-934/248, 14-40=-516/125, 14-39=-42/797, 24-39=-500/216, 8-40=0/723	5) Unbalanced snow loads have been considered for this design.
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 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-11 max.): 7-13, 8-38.		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 42-44.		
WEBS	1 Row at midpt 7-40, 6-42, 14-40		
JOINTS	1 Brace at Jt(s): 10, 12, 16, 20, 22, 26, 28, 30, 14		
REACTIONS	(size) 2=0-3-8, 34=6-3-8, 36=6-3-8, 37=6-3-8, 38=6-3-8, 49=6-3-8 Max Horiz 2=173 (LC 18) Max Uplift 2=-235 (LC 14), 36=-128 (LC 52), 37=-181 (LC 5), 38=-234 (LC 15) Max Grav 2=2373 (LC 45), 34=861 (LC 45), 36=37 (LC 13), 37=-23 (LC 14), 38=2094 (LC 45), 49=861 (LC 45)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
NOTES	1) Unbalanced roof live loads have been considered for this design.		



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 191 FaNC	I63640963
24020061	A05	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:02
ID:lddnOXHqsyV1qLmU4Y18VaznZrF-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 2

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 37, 36, and 38. This connection is for uplift only and does not consider lateral forces.
- 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) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 1008 from left end and 1008 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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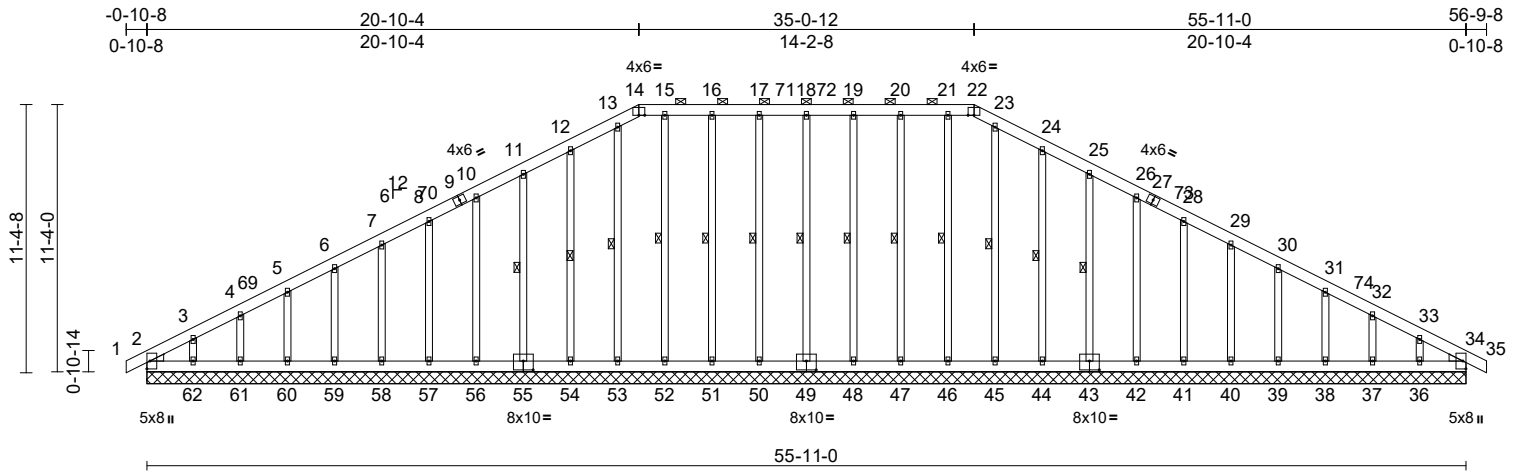
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss A06	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640964
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:05
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Page: 1



Scale = 1:97.7

Plate Offsets (X, Y): [43:0-5-0,0-4-8], [49:0-5-0,0-4-8], [55:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	34	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 552 lb	FT = 20%

LUMBER		Max Uplift	2=-22 (LC 10), 36=-92 (LC 15), 37=-34 (LC 15), 38=-46 (LC 15), 39=-43 (LC 15), 40=-44 (LC 15), 41=-44 (LC 15), 42=-43 (LC 15), 43=-47 (LC 15), 44=-50 (LC 15), 47=-29 (LC 11), 48=-27 (LC 10), 49=-25 (LC 11), 50=-27 (LC 10), 51=-30 (LC 10), 54=-49 (LC 14), 55=-46 (LC 14), 56=-43 (LC 14), 57=-44 (LC 14), 58=-44 (LC 14), 59=-43 (LC 14), 60=-47 (LC 14), 61=-30 (LC 14), 62=-113 (LC 14), 63=-22 (LC 10)	TOP CHORD	1-2=0/23, 2-3=-240/81, 3-4=-193/78, 4-5=-154/89, 5-6=-116/101, 6-7=-92/121, 7-8=-70/144, 8-10=-66/168, 10-11=-76/207, 11-12=-95/254, 12-13=-114/301, 13-14=-117/300, 14-15=-112/301, 15-16=-112/301, 16-17=-112/301, 17-18=-112/301, 18-19=-112/301, 19-20=-112/301, 20-21=-112/301, 21-22=-112/301, 22-23=-117/300, 23-24=-114/301, 24-25=-95/254, 25-26=-76/207, 26-28=-58/162, 28-29=-57/117, 29-30=-46/71, 30-31=-57/27, 31-32=-79/26, 32-33=-118/44, 33-34=-160/65, 34-35=0/23
TOP CHORD	2x6 SP No.2				
BOT CHORD	2x6 SP No.2				
OTHERS	2x4 SP No.3 *Except* 49-18,50-17,51-16,52-15,48-19,47-20,46-21: 2x4 SP No.2				
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.): 14-22.				
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				
WEBS	1 Row at midpt 18-49, 17-50, 16-51, 15-52, 13-53, 12-54, 11-55, 19-48, 20-47, 21-46, 23-45, 24-44, 25-43				
REACTIONS (size)	2=55-11-0, 34=55-11-0, 36=55-11-0, 37=55-11-0, 38=55-11-0, 39=55-11-0, 40=55-11-0, 41=55-11-0, 42=55-11-0, 43=55-11-0, 44=55-11-0, 45=55-11-0, 46=55-11-0, 47=55-11-0, 48=55-11-0, 49=55-11-0, 50=55-11-0, 51=55-11-0, 52=55-11-0, 53=55-11-0, 54=55-11-0, 55=55-11-0, 56=55-11-0, 57=55-11-0, 58=55-11-0, 59=55-11-0, 60=55-11-0, 61=55-11-0, 62=55-11-0, 63=55-11-0, 66=55-11-0				
	Max Horiz 2=173 (LC 18), 63=173 (LC 18)				
		Max Grav 2=179 (LC 26), 34=142 (LC 22), 36=157 (LC 43), 37=160 (LC 22), 38=160 (LC 39), 39=160 (LC 22), 40=197 (LC 43), 41=234 (LC 43), 42=233 (LC 43), 43=233 (LC 43), 44=238 (LC 43), 45=202 (LC 43), 46=198 (LC 38), 47=220 (LC 38), 48=217 (LC 38), 49=216 (LC 38), 50=217 (LC 38), 51=220 (LC 38), 52=198 (LC 38), 53=202 (LC 41), 54=238 (LC 41), 55=233 (LC 41), 56=233 (LC 41), 57=234 (LC 41), 58=197 (LC 41), 59=160 (LC 21), 60=160 (LC 39), 61=160 (LC 21), 62=157 (LC 41), 63=179 (LC 26), 66=142 (LC 22)			
		FORCES (lb) - Maximum Compression/Maximum Tension			



February 15, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 191 FaNC	163640964
24020061	A06	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:05

Page: 2

ID:yype2jrmnp6OmZlF0UQvsznZuZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

BOT CHORD 2-62=-71/193, 61-62=-52/193,
60-61=-52/193, 59-60=-52/193,
58-59=-52/193, 57-58=-52/193,
56-57=-52/193, 54-56=-52/193,
53-54=-52/193, 52-53=-52/193,
51-52=-52/193, 50-51=-52/193,
48-50=-52/193, 47-48=-52/193,
46-47=-52/193, 45-46=-52/193,
44-45=-52/193, 42-44=-52/193,
41-42=-52/193, 40-41=-52/193,
39-40=-52/193, 38-39=-52/193,
37-38=-52/193, 36-37=-52/193,
34-36=-52/193

WEBS 18-49=-176/56, 17-50=-177/60,
16-51=-180/62, 15-52=-158/23,
13-53=-162/11, 12-54=-198/84,
11-55=-193/81, 10-56=-193/77,
8-57=-194/77, 7-58=-157/77, 6-59=-120/77,
5-60=-120/80, 4-61=-122/112,
3-62=-109/131, 19-48=-177/60,
20-47=-180/62, 21-46=-158/19,
23-45=-162/0, 24-44=-198/84,
25-43=-193/81, 26-42=-193/77,
28-41=-194/77, 29-40=-157/77,
30-39=-120/77, 31-38=-120/80,
32-37=-122/112, 33-36=-109/131

- 15) 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-8-10, Exterior (2N) 4-8-10 to 15-3-2, Corner(3R) 15-3-2 to 26-5-6, Exterior(2N) 26-5-6 to 29-5-10, Corner(3R) 29-5-10 to 40-7-14, Exterior(2N) 40-7-14 to 51-2-6, Corner(3E) 51-2-6 to 56-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 25 lb uplift at joint 49, 27 lb uplift at joint 50, 30 lb uplift at joint 51, 49 lb uplift at joint 54, 46 lb uplift at joint 55, 43 lb uplift at joint 56, 44 lb uplift at joint 57, 44 lb uplift at joint 58, 43 lb uplift at joint 59, 47 lb uplift at joint 60, 30 lb uplift at joint 61, 113 lb uplift at joint 62, 27 lb uplift at joint 48, 29 lb uplift at joint 47, 50 lb uplift at joint 44, 47 lb uplift at joint 43, 43 lb uplift at joint 42, 44 lb uplift at joint 41, 44 lb uplift at joint 40, 43 lb uplift at joint 39, 46 lb uplift at joint 38, 34 lb uplift at joint 37, 92 lb uplift at joint 36 and 22 lb uplift at joint 2.
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 63.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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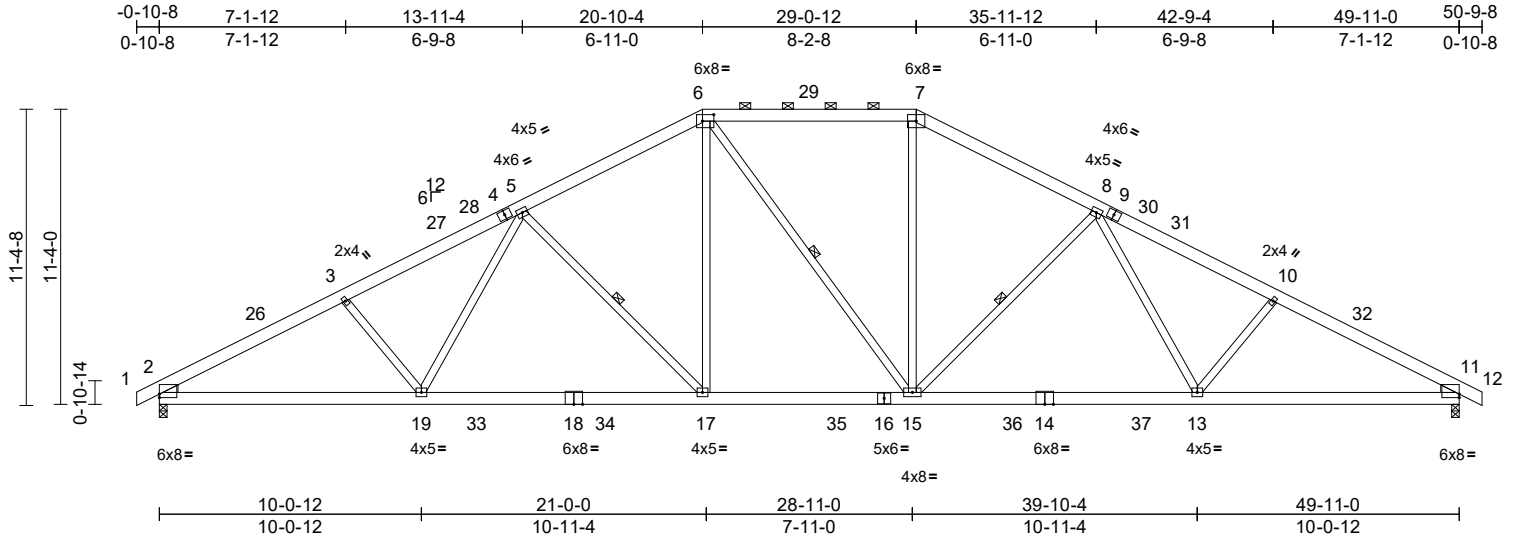
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss B01	Truss Type Piggyback Base	Qty 2	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640965
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:07
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Page: 1



Scale = 1:88.5

Plate Offsets (X, Y): [2:Edge,0-1-10], [6:0-5-4,0-3-0], [11:Edge,0-1-10]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.31	17-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.54	17-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.13	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 369 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* 17-6, 15-6, 15-7:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except 2-0-0 oc purlins (3-2-6 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-17, 6-15, 8-15

REACTIONS (size) 2=0-3-8, 11=0-3-8
Max Horiz 2=-173 (LC 15)
Max Uplift 2=-216 (LC 14), 11=-216 (LC 15)
Max Grav 2=2374 (LC 45), 11=2370 (LC 45)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-4160/402, 3-5=-3958/411, 5-6=-3135/425, 6-7=-2696/421, 7-8=-3127/425, 8-10=-3949/411, 10-11=-4150/402, 11-12=0/23
BOT CHORD 2-19=-410/3605, 17-19=-273/3262, 15-17=-100/2703, 13-15=-181/3254, 11-13=-253/3597
WEBS 5-19=-25/567, 3-19=-276/204, 5-17=-896/251, 6-17=-73/1063, 6-15=-287/293, 7-15=-29/1013, 8-15=-894/252, 8-13=-25/566, 10-13=-276/204

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-6, Interior (1) 4-1-6 to 13-9-9, Exterior(2R) 13-9-9 to 35-11-12, Interior (1) 35-11-12 to 45-9-10, Exterior(2E) 45-9-10 to 50-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
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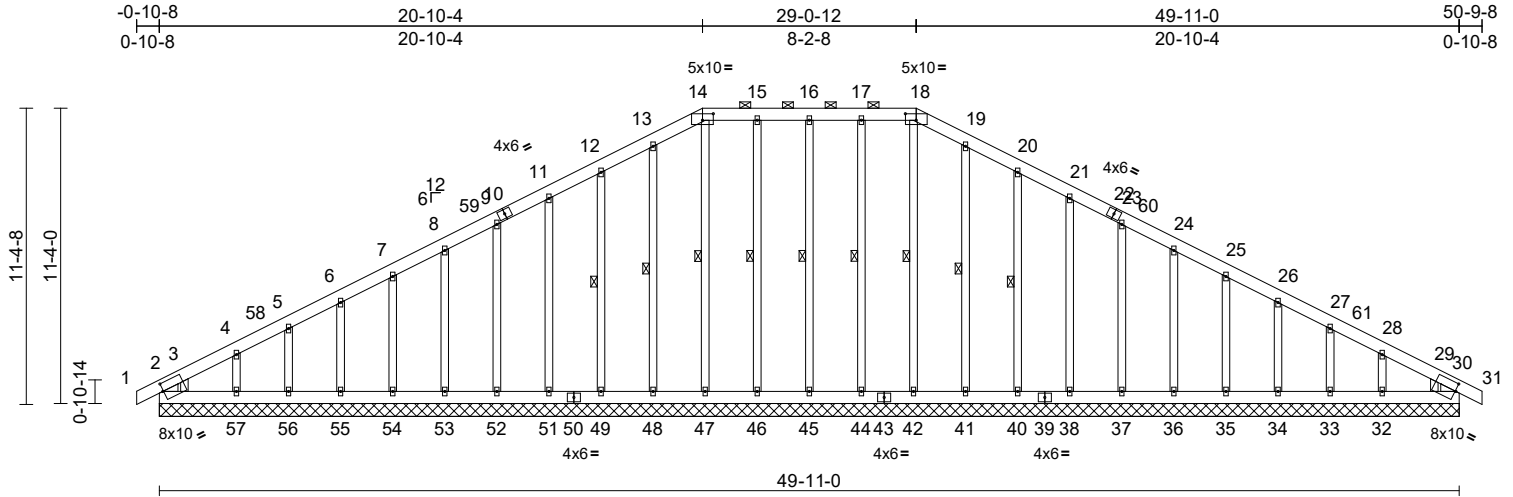
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss B02	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640966
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:09
ID:qjMAnjKisUIR55GeQMwSlcznZwM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:88.5

Plate Offsets (X, Y): [2:0-0-6,0-3-11], [14:0-5-0,0-3-0], [18:0-5-0,0-3-0], [29:0-0-6,0-3-11]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	30	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 478 lb	FT = 20%

LUMBER		Max Uplift	2=-1 (LC 10), 32=-117 (LC 15), 33=-12 (LC 15), 34=-46 (LC 15), 35=-43 (LC 15), 36=-42 (LC 15), 37=-42 (LC 15), 38=-43 (LC 15), 40=-48 (LC 15), 41=-27 (LC 15), 44=-21 (LC 11), 45=-30 (LC 10), 46=-21 (LC 11), 48=-31 (LC 14), 49=-47 (LC 14), 51=-43 (LC 14), 52=-42 (LC 14), 53=-42 (LC 14), 54=-42 (LC 14), 55=-46 (LC 14), 56=-12 (LC 14), 57=-97 (LC 14)	BOT CHORD	2-57=-47/166, 56-57=-41/164, 55-56=-41/164, 54-55=-41/164, 53-54=-41/164, 52-53=-41/164, 51-52=-41/164, 49-51=-41/164, 48-49=-41/164, 47-48=-41/164, 46-47=-42/164, 45-46=-42/164, 44-45=-42/164, 42-44=-42/164, 41-42=-41/164, 40-41=-41/164, 38-40=-41/164, 37-38=-41/164, 36-37=-41/164, 35-36=-41/164, 34-35=-41/164, 33-34=-41/164, 32-33=-41/164, 30-32=-47/166
TOP CHORD	2x6 SP No.2				
BOT CHORD	2x6 SP No.2				
OTHERS	2x4 SP No.3 *Except* 45-16,46-15,47-14,44-17,42-18:2x4 SP No.2				
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.): 14-18.				
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				
WEBS	1 Row at midpt 16-45, 15-46, 14-47, 13-48, 12-49, 17-44, 18-42, 19-41, 20-40				
REACTIONS (size)	2=49-11-0, 30=49-11-0, 32=49-11-0, 33=49-11-0, 34=49-11-0, 35=49-11-0, 36=49-11-0, 37=49-11-0, 38=49-11-0, 40=49-11-0, 41=49-11-0, 42=49-11-0, 44=49-11-0, 45=49-11-0, 46=49-11-0, 47=49-11-0, 48=49-11-0, 49=49-11-0, 51=49-11-0, 52=49-11-0, 53=49-11-0, 54=49-11-0, 55=49-11-0, 56=49-11-0, 57=49-11-0				
	Max Horiz 2=-162 (LC 15)				
FORCES	(lb) - Maximum Compression/Maximum Tension				
TOP CHORD	1-2=0/30, 3-4=-218/85, 4-5=-150/79, 5-6=-126/95, 6-7=-96/109, 7-8=-75/131, 8-9=-61/154, 9-11=-64/179, 11-12=-81/223, 12-13=-100/269, 13-14=-115/304, 14-15=-107/292, 15-16=-107/292, 16-17=-107/292, 17-18=-107/292, 18-19=-115/304, 19-20=-100/269, 20-21=-81/223, 21-23=-64/179, 23-24=-53/135, 24-25=-45/91, 25-26=-46/47, 26-27=-57/28, 27-28=-95/20, 28-29=-145/67, 30-31=0/30				



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	DRB - 191 FaNC	I63640966
24020061	B02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:09

Page: 2

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WEBS 16-45=-176/64, 15-46=-179/44,
14-47=-128/0, 13-48=-176/55,
12-49=-183/82, 11-51=-180/75,
9-52=-181/75, 8-53=-148/75, 7-54=-116/74,
6-55=-127/85, 5-56=-49/28, 4-57=-232/233,
2-3=-219/68, 17-44=-179/44, 18-42=-128/0,
19-41=-176/55, 20-40=-183/82,
21-38=-180/75, 23-37=-181/75,
24-36=-148/75, 25-35=-116/74,
26-34=-127/85, 27-33=-49/28,
28-32=-232/233, 29-30=-146/56

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-6, Exterior(2N) 4-1-6 to 15-10-6, Corner(3R) 15-10-6 to 34-0-10, Exterior(2N) 34-0-10 to 45-9-10, Corner(3E) 45-9-10 to 50-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 30 lb uplift at joint 45, 21 lb uplift at joint 46, 31 lb uplift at joint 48, 47 lb uplift at joint 49, 43 lb uplift at joint 51, 42 lb uplift at joint 52, 42 lb uplift at joint 53, 42 lb uplift at joint 54, 46 lb uplift at joint 55, 12 lb uplift at joint 56, 97 lb uplift at joint 57, 21 lb uplift at joint 44, 27 lb uplift at joint 41, 48 lb uplift at joint 40, 43 lb uplift at joint 38, 42 lb uplift at joint 37, 42 lb uplift at joint 36, 43 lb uplift at joint 35, 46 lb uplift at joint 34, 12 lb uplift at joint 33 and 117 lb uplift at joint 32.
- 15) 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



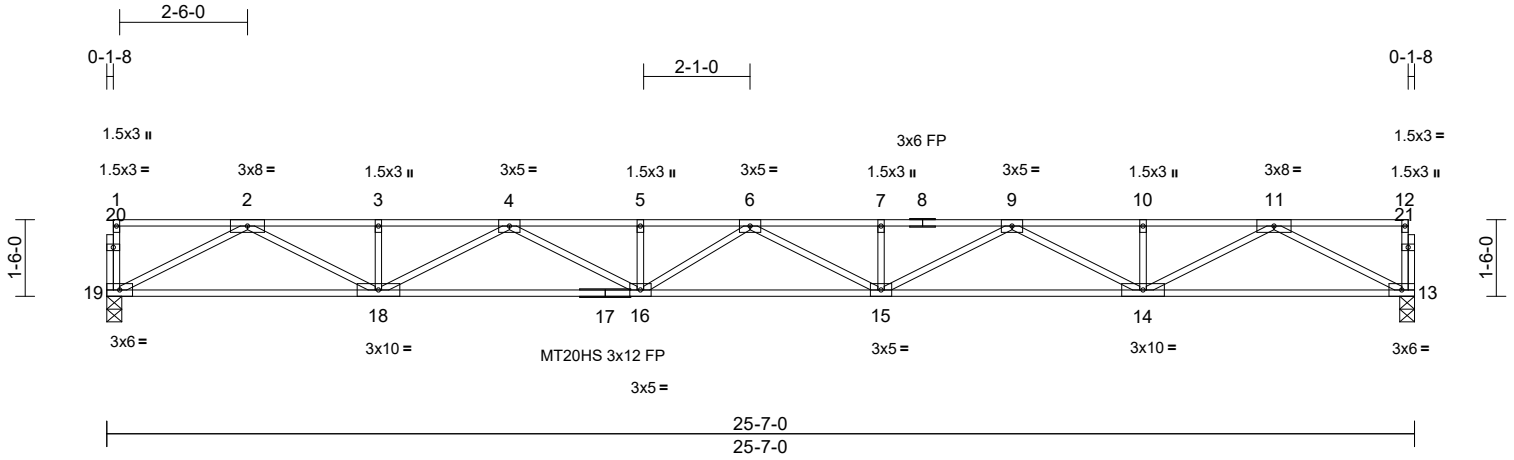
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F01	Truss Type Floor	Qty 14	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640967
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:11
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Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.51	15-16	>598	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.71	15-16	>429	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.11	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
											Weight: 131 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS** (size) 13=0-3-8, 19=0-3-8
Max Grav 13=925 (LC 1), 19=925 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-19=-69/0, 12-13=-69/0, 1-2=-3/0, 2-3=-2815/0, 3-4=-2815/0, 4-5=-4147/0, 5-6=-4147/0, 6-7=-4153/0, 7-9=-4153/0, 9-10=-2815/0, 10-11=-2815/0, 11-12=-3/0
 - BOT CHORD 18-19=0/1609, 16-18=0/3648, 15-16=0/4284, 14-15=0/3646, 13-14=0/1609
 - WEBS 11-13=-1813/0, 2-19=-1813/0, 11-14=0/1369, 2-18=0/1369, 10-14=-163/0, 3-18=-162/0, 9-14=-943/0, 4-18=-945/0, 9-15=0/576, 4-16=0/567, 7-15=-171/0, 5-16=-150/0, 6-15=-148/0, 6-16=-162/0

NOTES

- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 15, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



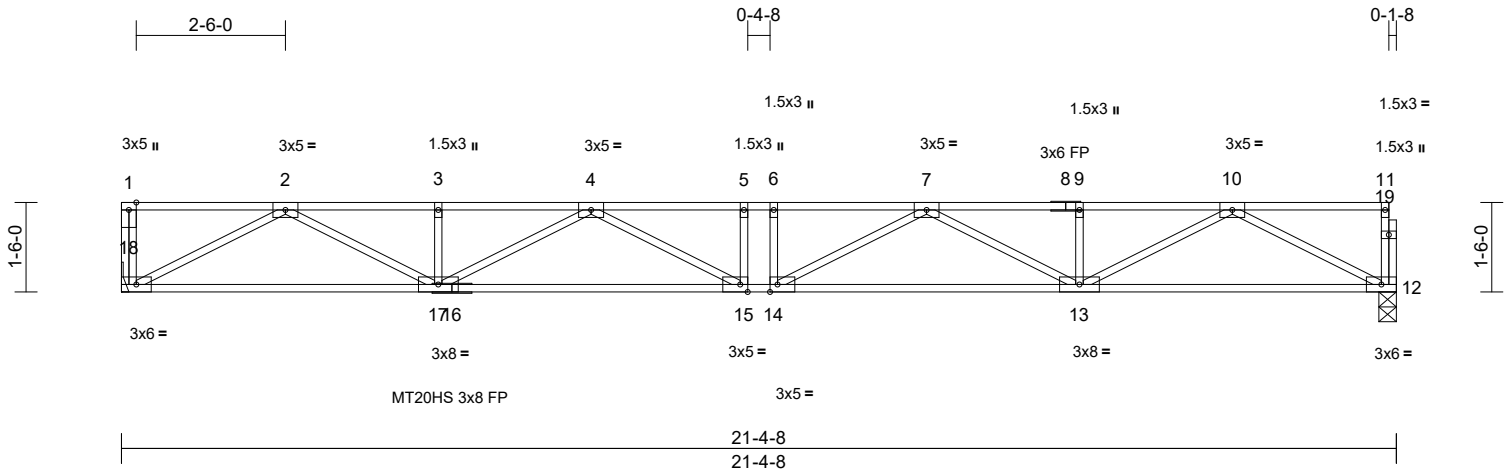
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F03	Truss Type Floor	Qty 3	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640969
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:12
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Page: 1



Scale = 1:38.6

Plate Offsets (X, Y): [14:0-1-8,Edge], [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.27	14-15	>936	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.37	13-14	>678	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
											Weight: 111 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 12=0-3-8, 18= Mechanical
 Max Grav 12=770 (LC 1), 18=775 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-70/0, 11-12=-69/0, 1-2=0/0,
 2-3=-2235/0, 3-4=-2235/0, 4-5=-2992/0,
 5-6=-2992/0, 6-7=-2992/0, 7-9=-2235/0,
 9-10=-2235/0, 10-11=-3/0

BOT CHORD 17-18=0/1316, 15-17=0/2780, 14-15=0/2992,
 13-14=0/2780, 12-13=0/1315

WEBS 10-12=-1481/0, 2-18=-1486/0, 10-13=0/1044,
 2-17=0/1043, 9-13=-163/0, 3-17=-162/0,
 7-13=-618/0, 4-17=-618/0, 7-14=-80/425,
 4-15=-80/425, 5-15=-115/0, 6-14=-115/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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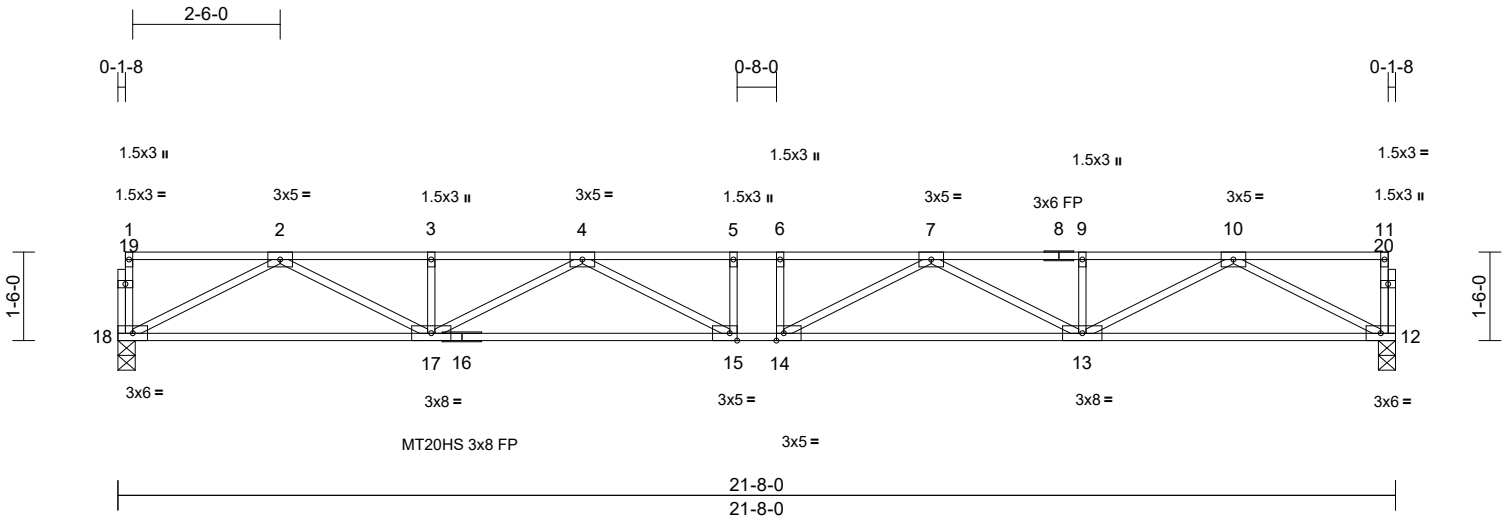
818 Soundside Road
 Edenton, NC 27932

Job 24020061	Truss F04	Truss Type Floor	Qty 5	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640970
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:13
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Page: 1



Scale = 1:39.1

Plate Offsets (X, Y): [14:0-1-8,Edge], [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.29	14-15	>901	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.39	15-17	>654	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 112 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 12=0-3-8, 18=0-3-8
Max Grav 12=781 (LC 1), 18=781 (LC 1)

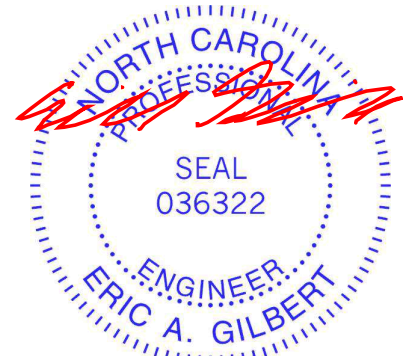
FORCES (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-18=-69/0, 11-12=-69/0, 1-2=-3/0, 2-3=-2276/0, 3-4=-2276/0, 4-5=-3069/0, 5-6=-3069/0, 6-7=-3069/0, 7-9=-2276/0, 9-10=-2276/0, 10-11=-3/0
- BOT CHORD 17-18=0/1336, 15-17=0/2840, 14-15=0/3069, 13-14=0/2840, 12-13=0/1336
- WEBS 10-12=-1504/0, 2-18=-1504/0, 10-13=0/1067, 2-17=0/1067, 9-13=-162/0, 3-17=-162/0, 7-13=-640/0, 4-17=-640/0, 7-14=-71/459, 4-15=-71/459, 5-15=-136/0, 6-14=-136/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



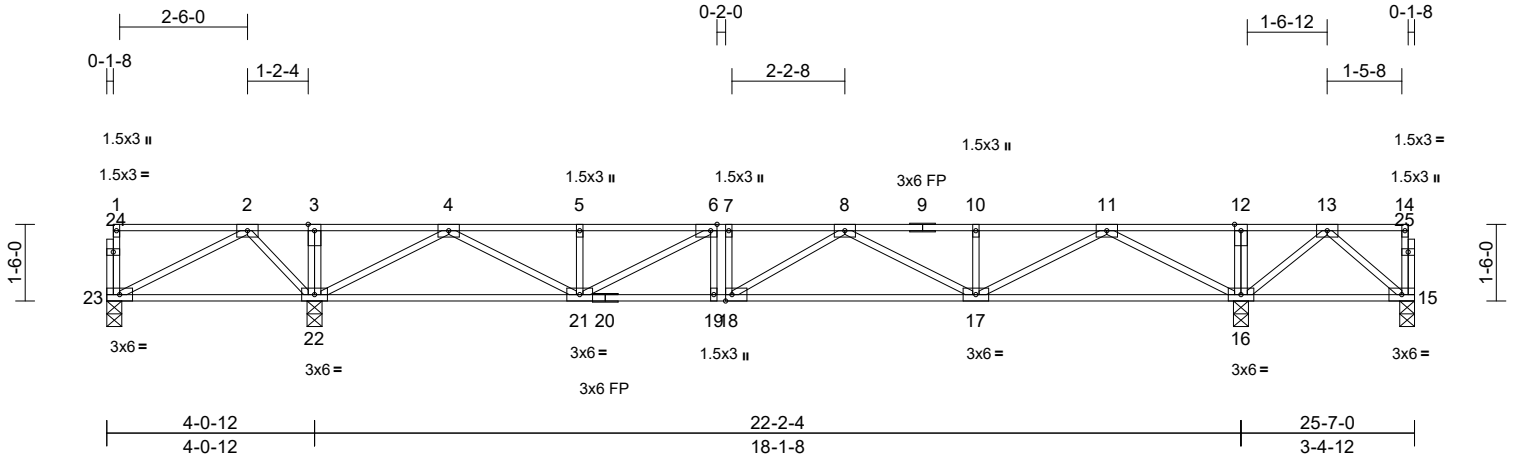
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F06	Truss Type Floor	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640972
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:14
ID:hCqk8_Oyr7eRieafj9tzWYyyC_r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC7f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [6:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.07	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.11	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
											Weight: 139 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 15=0-3-8, 16=0-3-8, 22=0-3-8, 23=0-3-8
Max Uplift 15=-475 (LC 6), 23=-349 (LC 6)
Max Grav 15=-25 (LC 5), 16=1303 (LC 4), 22=1198 (LC 3), 23=27 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-71/0, 14-15=-42/0, 1-2=-3/0, 2-3=0/1092, 3-4=0/1092, 4-5=-683/0, 5-6=-683/0, 6-7=-1026/0, 7-8=-1026/0, 8-10=-645/0, 10-11=-645/0, 11-12=0/1174, 12-13=0/1174, 13-14=-2/0
BOT CHORD 22-23=-709/0, 21-22=-143/79, 19-21=0/1026, 18-19=0/1026, 17-18=0/996, 16-17=-134/1, 15-16=-567/0
WEBS 3-22=-123/0, 12-16=-159/0, 11-16=-1225/0, 4-22=-1196/0, 11-17=0/831, 4-21=0/798, 10-17=-170/0, 5-21=-179/0, 8-17=-400/0, 6-21=-428/0, 8-18=-132/191, 6-19=-88/73, 7-18=0/26, 2-23=0/801, 2-22=-666/0, 13-16=-859/0, 13-15=0/752

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
 - One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



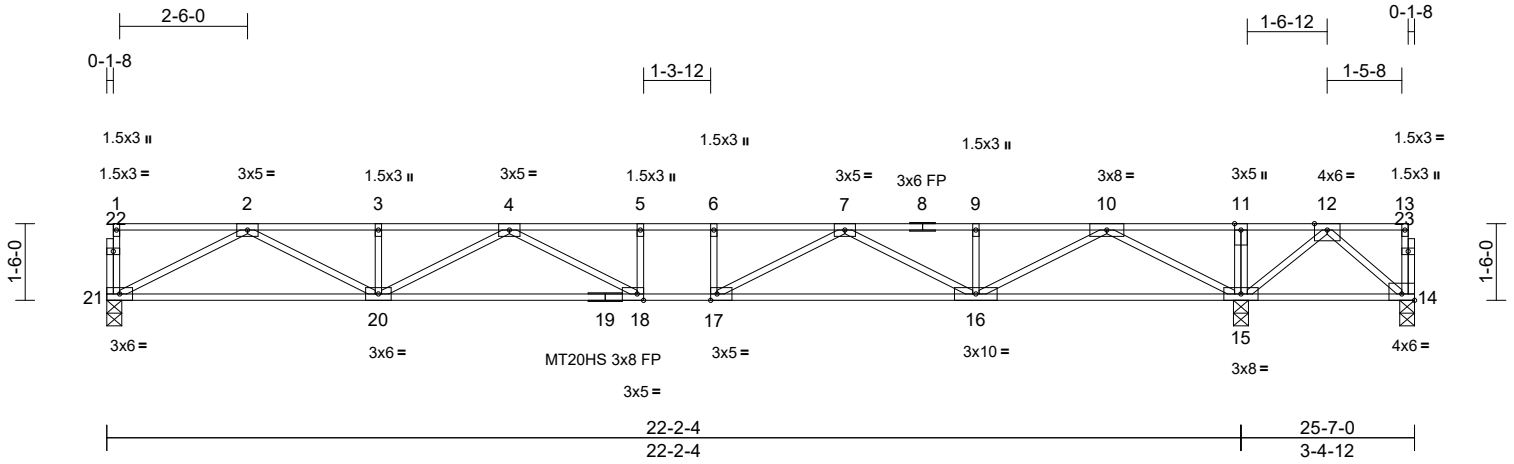
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F07	Truss Type Floor	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	I63640973
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:15
ID:I5EPI6aMkJWJ?xEX5ofUdiyC_c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [14:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.27	18-20	>967	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.39	18-20	>679	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
											Weight: 133 lb	FT = 20%F, 11%E

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

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

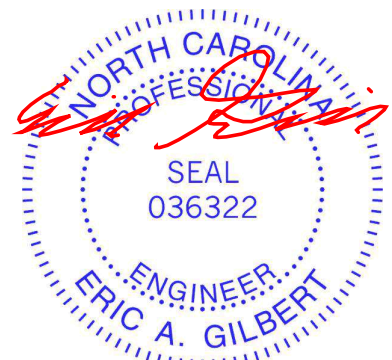
REACTIONS (size) 14=0-3-8, 15=0-3-8, 21=0-3-8
Max Uplift 14=-898 (LC 3)
Max Grav 14=-141 (LC 4), 15=1999 (LC 1), 21=667 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-68/0, 13-14=-42/0, 1-2=-3/0, 2-3=-1850/0, 3-4=-1850/0, 4-5=-2143/0, 5-6=-2143/0, 6-7=-2143/0, 7-9=-673/0, 9-10=-673/0, 10-11=0/2167, 11-12=0/2167, 12-13=-2/0
BOT CHORD 20-21=0/1122, 18-20=0/2201, 17-18=0/2143, 16-17=0/1539, 15-16=-572/0, 14-15=-1051/0
WEBS 11-15=-165/0, 10-15=-1805/0, 2-21=-1264/0, 10-16=0/1408, 2-20=0/825, 9-16=-178/0, 3-20=-152/0, 7-16=-983/0, 4-20=-398/0, 7-17=0/738, 4-18=-246/230, 5-18=-77/42, 6-17=-244/0, 12-14=0/1393, 12-15=-1518/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 1.5x3 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 898 lb uplift at joint 14.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

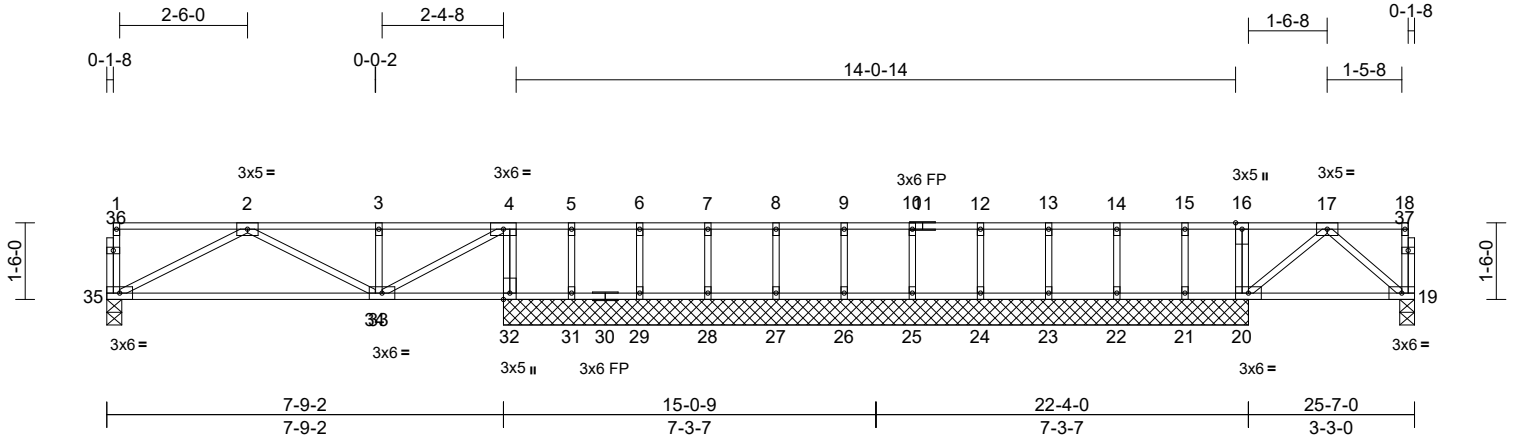


Job 24020061	Truss F08	Truss Type Floor	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640974
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:15
ID:Px0oyr7DU5JnX0InNstHUPyBzu-RfC?PsB70Hq3NSgPqnl8w3uITxbGKWrCdoi7J4zJC?F

Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.01	34-35	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.05	34-35	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	32	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 129 lb	FT = 20%F, 11%E

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

WEBS	
4-32	=-409/0, 16-20=-143/0, 5-31=-225/0,
6-29	=-229/0, 7-28=-222/0, 8-27=-223/0,
9-26	=-222/0, 10-25=-222/0, 12-24=-222/0,
13-23	=-222/0, 14-22=-226/0, 15-21=-216/0,
2-35	=-399/0, 2-34=-70/59, 3-33=-181/0,
4-33	=0/440, 17-19=-84/14, 17-20=-123/0

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 34-35,33-34.
REACTIONS (size)	19=0-3-8, 20=14-6-14, 21=14-6-14, 22=14-6-14, 23=14-6-14, 24=14-6-14, 25=14-6-14, 26=14-6-14, 27=14-6-14, 28=14-6-14, 29=14-6-14, 31=14-6-14, 32=14-6-14, 35=0-3-8
Max Grav	19=103 (LC 4), 20=244 (LC 1), 21=215 (LC 3), 22=237 (LC 7), 23=230 (LC 3), 24=232 (LC 7), 25=231 (LC 3), 26=231 (LC 7), 27=232 (LC 3), 28=231 (LC 7), 29=238 (LC 3), 31=234 (LC 7), 32=416 (LC 1), 35=268 (LC 3)

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-35=-68/0, 18-19=-40/0, 1-2=-3/0, 2-3=-342/0, 3-4=-342/0, 4-5=0/47, 5-6=0/47, 6-7=0/47, 7-8=0/47, 8-9=0/47, 9-10=0/47, 10-12=0/47, 12-13=0/47, 13-14=0/47, 14-15=0/47, 15-16=0/47, 16-17=0/47, 17-18=-2/0
BOT CHORD	34-35=0/357, 33-34=0/342, 32-33=-47/0, 31-32=-47/0, 29-31=-47/0, 28-29=-47/0, 27-28=-47/0, 26-27=-47/0, 25-26=-47/0, 24-25=-47/0, 23-24=-47/0, 22-23=-47/0, 21-22=-47/0, 20-21=-47/0, 19-20=-11/65

- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 19-35=-7, 1-4=-67, 4-16=-167, 16-18=-67



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)



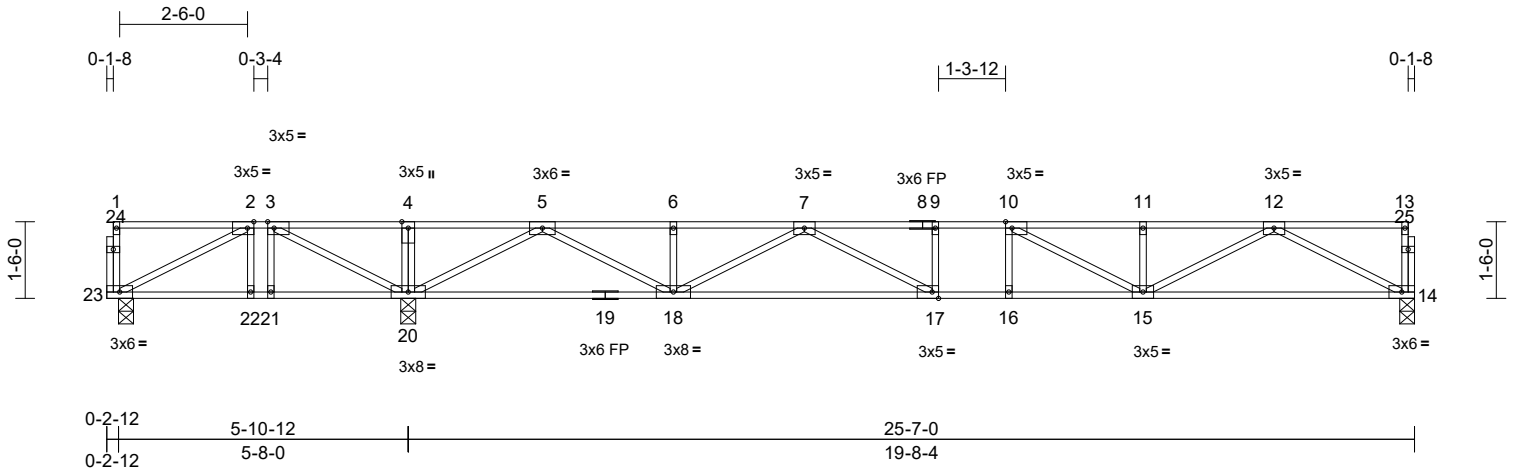
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F12	Truss Type Floor	Qty 5	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640978
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:18
ID:T5yufnWlxhLFMwBxB2nn9yyBzO-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS

(size) 14=0-3-8, 20=0-3-8, 23=0-3-8
Max Uplift 23=-306 (LC 4)
Max Grav 14=608 (LC 7), 20=1406 (LC 1), 23=99 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-89/0, 13-14=-70/0, 1-2=-4/0,
2-3=-26/694, 3-4=0/1536, 4-5=0/1536,
5-6=-923/0, 6-7=-923/0, 7-9=-1858/0,
9-10=-1858/0, 10-11=-1627/0,
11-12=-1627/0, 12-13=-3/0
BOT CHORD 22-23=-694/26, 21-22=-694/26,
20-21=-694/26, 18-20=-160/0, 17-18=0/1557,
16-17=0/1858, 15-16=0/1858, 14-15=0/1004
WEBS 4-20=-171/0, 3-20=-1110/0, 2-23=-25/781,
2-22=-252/0, 3-21=0/272, 5-20=-1568/0,
12-14=-1130/0, 5-18=0/1161, 12-15=0/707,
6-18=-168/0, 11-15=-199/0, 7-18=-731/0,
10-15=-396/11, 7-17=0/461, 9-17=-133/0,
10-16=-70/56

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.

- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



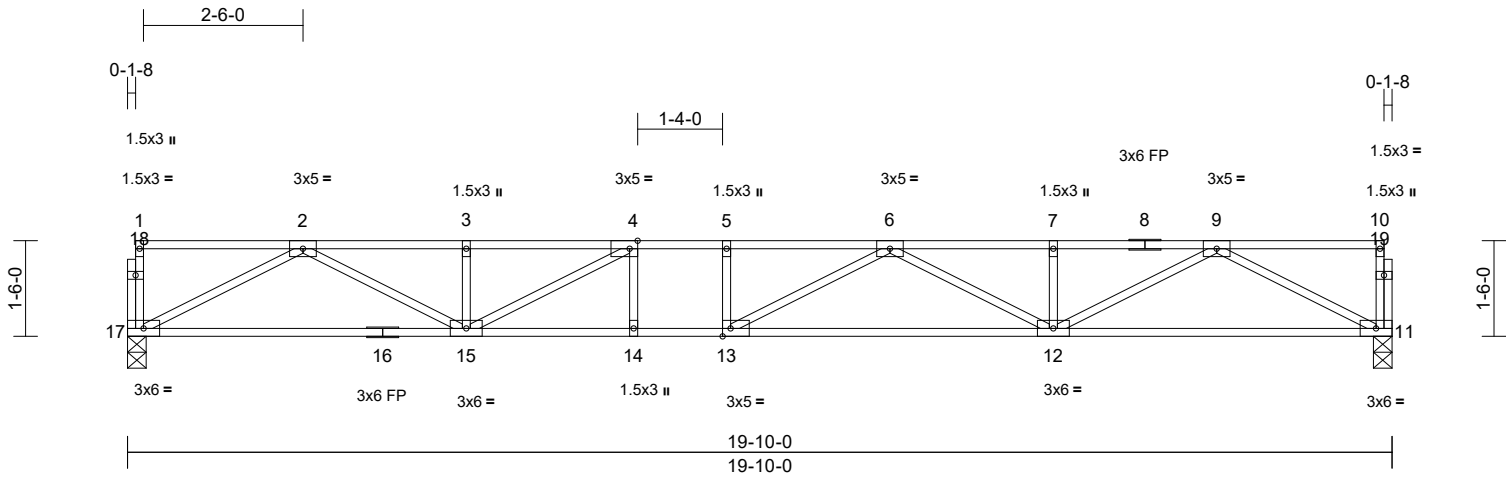
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F13	Truss Type Floor	Qty 4	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640979
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:18
ID:MiBPV9Zo?wshrYVlu07jy?yyBzK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:36.1

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.26	12-13	>907	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.37	12-13	>631	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 102 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 2-2-0 oc bracing: 14-15.

REACTIONS (size) 11=0-3-8, 17=0-3-8
 Max Grav 11=714 (LC 1), 17=714 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-69/0, 10-11=-68/0, 1-2=-3/0,
 2-3=-2013/0, 3-4=-2013/0, 4-5=-2518/0,
 5-6=-2518/0, 6-7=-2025/0, 7-9=-2025/0,
 9-10=-3/0

BOT CHORD 15-17=0/1206, 14-15=0/2518, 13-14=0/2518,
 12-13=0/2464, 11-12=0/1210

WEBS 9-11=-1363/0, 2-17=-1357/0, 9-12=0/924,
 2-15=0/916, 7-12=-155/0, 3-15=-187/16,
 6-12=-498/0, 4-15=-684/0, 6-13=-166/325,
 4-14=-39/113, 5-13=-95/11

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



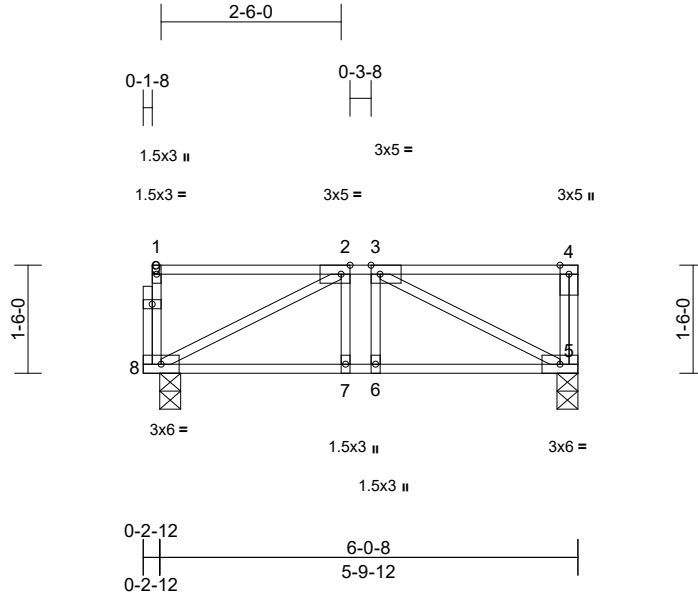
818 Soundside Road
 Edenton, NC 27932

Job 24020061	Truss F15	Truss Type Floor	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	I63640980
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:19
ID:3ooBbah4e?6G24GDU7I3M6yyBzA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:32

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.01	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

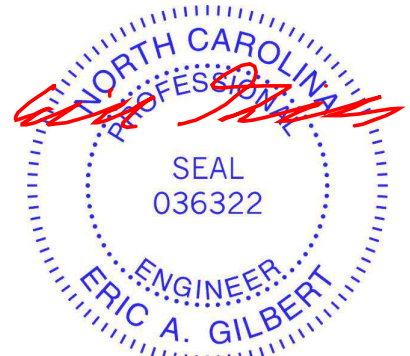
REACTIONS (size) 5=0-3-8, 8=0-3-8
Max Grav 5=212 (LC 1), 8=208 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-75/0, 4-5=-76/0, 1-2=-3/0, 2-3=-258/0, 3-4=0/0
BOT CHORD 7-8=0/258, 6-7=0/258, 5-6=0/258
WEBS 3-5=-290/0, 2-8=-287/0, 2-7=-58/86, 3-6=-62/82

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

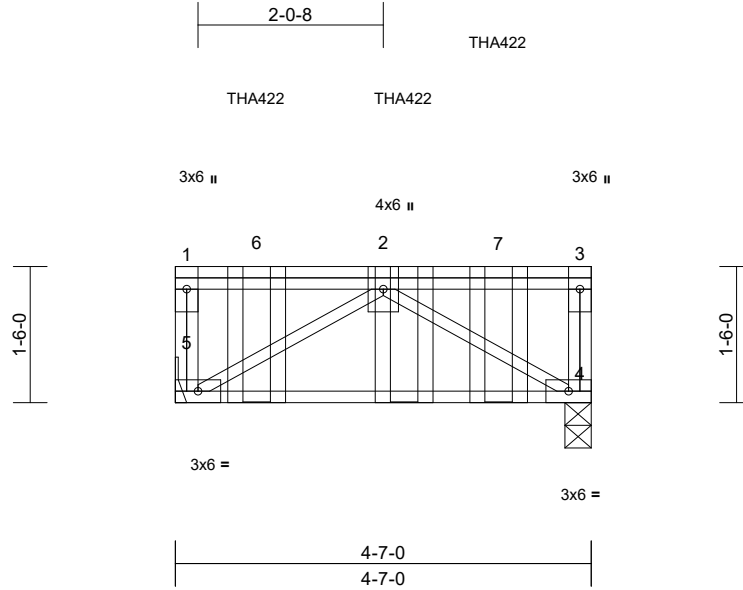
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss F17	Truss Type Floor Girder	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	I63640981
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:19
ID:I3uRdHC2WCX9ih2UVfa8bAyyByV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:25.4

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.04	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 34 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=0-3-8, 5= Mechanical
Max Grav 4=1233 (LC 1), 5=1275 (LC 1)

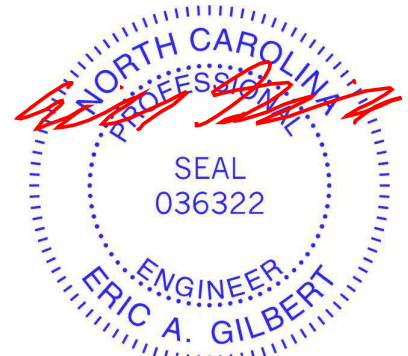
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-429/0, 3-4=-387/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/1372
WEBS 2-4=-1605/0, 2-5=-1605/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-8 oc max. starting at 0-10-12 from the left end to 3-6-12 to connect truss(es) to back face of top chord.
- 5) Fill all nail holes where hanger is in contact with lumber.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-5=-7, 1-3=-67
Concentrated Loads (lb)
Vert: 2=-730 (B), 6=-730 (B), 7=-730 (B)



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



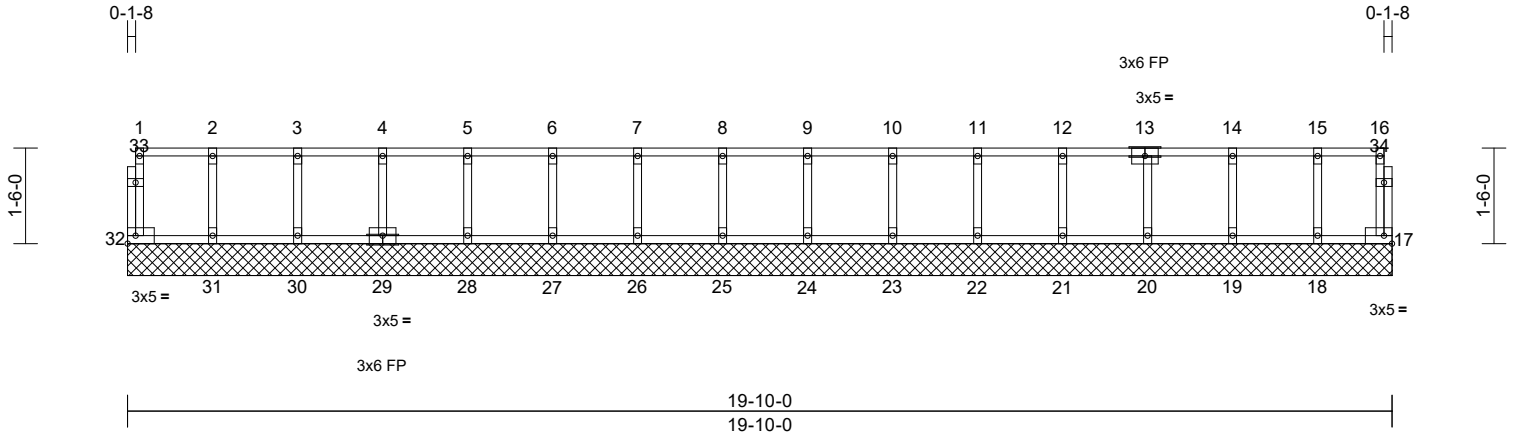
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss FW16	Truss Type Floor Supported Gable	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640982
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:19
ID:ca1VeAxlR8YtMgUzNBehuKyyBwG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:36.1

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 92 lb	FT = 20%F, 11%E

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

WEBS	
2-31	=-86/0, 3-30=-90/0, 4-29=-89/0,
5-28	=-89/0, 6-27=-89/0, 7-26=-89/0,
8-25	=-89/0, 9-24=-89/0, 10-23=-89/0,
11-22	=-89/0, 12-21=-87/0, 13-20=-88/0,
14-19	=-93/0, 15-18=-82/0

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

- NOTES**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

REACTIONS	(size)	
		17=19-10-0, 18=19-10-0,
		19=19-10-0, 20=19-10-0,
		21=19-10-0, 22=19-10-0,
		23=19-10-0, 24=19-10-0,
		25=19-10-0, 26=19-10-0,
		27=19-10-0, 28=19-10-0,
		29=19-10-0, 30=19-10-0,
		31=19-10-0, 32=19-10-0
Max Grav		17=29 (LC 1), 18=90 (LC 1),
		19=102 (LC 1), 20=97 (LC 1),
		21=96 (LC 1), 22=98 (LC 1), 23=98
		(LC 1), 24=98 (LC 1), 25=98 (LC
		1), 26=98 (LC 1), 27=98 (LC 1),
		28=98 (LC 1), 29=98 (LC 1), 30=99
		(LC 1), 31=94 (LC 1), 32=38 (LC 1)

LOAD CASE(S) Standard

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-32=-34/0, 16-17=-26/0, 1-2=-5/0, 2-3=-5/0,
	3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0,
	7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0,
	11-12=-5/0, 12-14=-5/0, 14-15=-3/0,
	15-16=-3/0
BOT CHORD	31-32=0/5, 30-31=0/5, 28-30=0/5, 27-28=0/5,
	26-27=0/5, 25-26=0/5, 24-25=0/5, 23-24=0/5,
	22-23=0/5, 21-22=0/5, 20-21=0/5, 19-20=0/3,
	18-19=0/3, 17-18=0/3



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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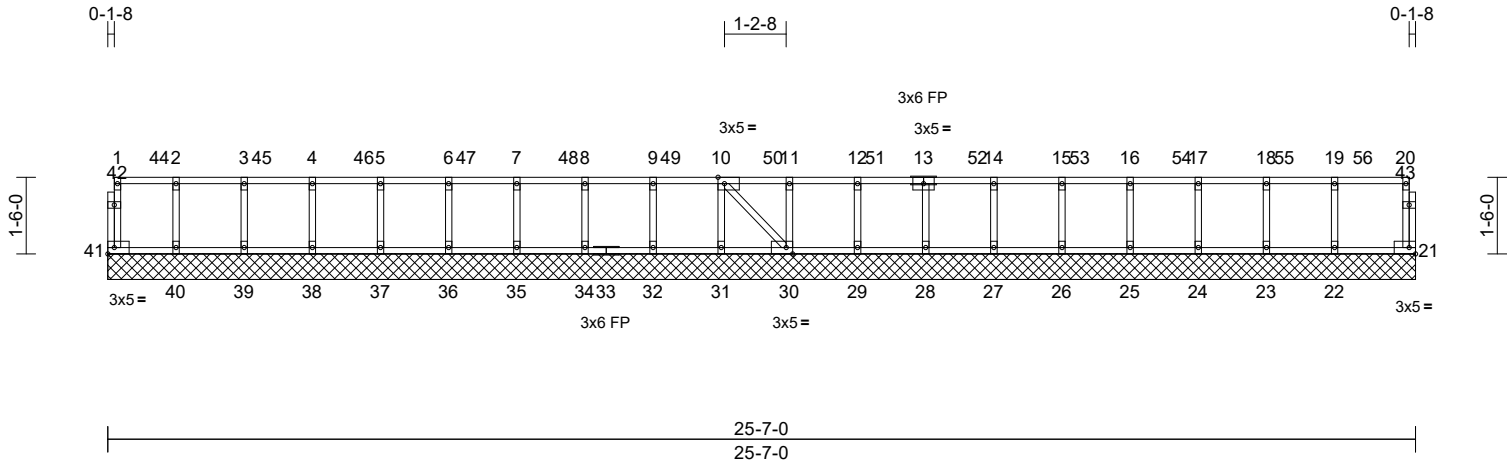
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss FW25	Truss Type Floor Supported Gable	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640983
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:20
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Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [10:0-1-8,Edge], [30:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 119 lb	FT = 20%F, 11%E

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

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

REACTIONS (size)
21=25-7-0, 22=25-7-0, 23=25-7-0,
24=25-7-0, 25=25-7-0, 26=25-7-0,
27=25-7-0, 28=25-7-0, 29=25-7-0,
30=25-7-0, 31=25-7-0, 32=25-7-0,
34=25-7-0, 35=25-7-0, 36=25-7-0,
37=25-7-0, 38=25-7-0, 39=25-7-0,
40=25-7-0, 41=25-7-0

Max Uplift
21=-9 (LC 8), 22=-91 (LC 8),
23=-98 (LC 8), 24=-98 (LC 8),
25=-80 (LC 8), 26=-96 (LC 8),
27=-100 (LC 8), 28=-80 (LC 8),
29=-95 (LC 8), 30=-97 (LC 8),
31=-83 (LC 8), 32=-97 (LC 8),
34=-98 (LC 8), 35=-80 (LC 8),
36=-97 (LC 8), 37=-99 (LC 8),
38=-79 (LC 8), 39=-104 (LC 8),
40=-34 (LC 8), 41=-12 (LC 8)

Max Grav
21=145 (LC 6), 22=610 (LC 3),
23=340 (LC 6), 24=404 (LC 3),
25=337 (LC 6), 26=386 (LC 3),
27=400 (LC 3), 28=339 (LC 6),
29=379 (LC 3), 30=383 (LC 3),
31=350 (LC 6), 32=387 (LC 3),
34=392 (LC 3), 35=339 (LC 6),
36=387 (LC 3), 37=391 (LC 3),
38=341 (LC 6), 39=378 (LC 3),
40=436 (LC 3), 41=117 (LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD
1-41=-114/14, 20-21=-141/11, 1-2=-5/1,
2-3=-5/1, 3-4=-5/1, 4-5=-5/1, 5-6=-5/1,
6-7=-5/1, 7-8=-5/1, 8-9=-5/1, 9-10=-5/1,
10-11=-16/3, 11-12=-16/3, 12-14=-16/3,
14-15=-6/0, 15-16=-6/0, 16-17=-6/0,
17-18=-6/0, 18-19=-6/0, 19-20=-6/0
BOT CHORD
40-41=-1/5, 39-40=-1/5, 38-39=-1/5,
37-38=-1/5, 36-37=-1/5, 35-36=-1/5,
34-35=-1/5, 32-34=-1/5, 31-32=-1/5,
30-31=-1/5, 29-30=-3/16, 28-29=-3/16,
27-28=0/6, 26-27=0/6, 25-26=0/6, 24-25=0/6,
23-24=0/6, 22-23=0/6, 21-22=0/6
WEBS
2-40=-427/40, 3-39=-369/109, 4-38=-332/84,
5-37=-383/104, 6-36=-378/102,
7-35=-330/86, 8-34=-383/104,
9-32=-378/102, 10-31=-341/88,
11-30=-385/104, 12-29=-370/100,
13-28=-331/86, 14-27=-391/106,
15-26=-377/102, 16-25=-328/86,
17-24=-395/104, 18-23=-332/103,
19-22=-599/97, 10-30=-4/16

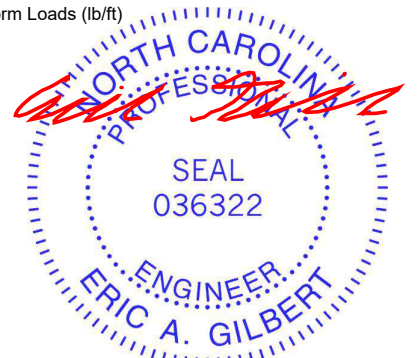
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 41, 21, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, and 22. 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) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 513 lb down and 75 lb up at 1-0-4, 516 lb down and 162 lb up at 3-0-4, 516 lb down and 162 lb up at 5-0-4, 516 lb down and 162 lb up at 7-0-4, 516 lb down and 162 lb up at 9-0-4, 516 lb down and 162 lb up at 11-0-4, 516 lb down and 162 lb up at 13-0-4, 516 lb down and 162 lb up at 15-0-4, 516 lb down and 162 lb up at 17-0-4, 516 lb down and 162 lb up at 19-0-4, 516 lb down and 162 lb up at 21-0-4, and 516 lb down and 162 lb up at 23-0-4, and 513 lb down and 75 lb up at 24-6-12 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)



February 15, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss FW25	Truss Type Floor Supported Gable	Qty 1	Ply 1	DRB - 191 FaNC Job Reference (optional)	I63640983
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:20
ID:vwY86Z18CIRtikWJH9GKgyBw9-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 2

Vert: 21-41=-7, 1-20=-67

Concentrated Loads (lb)

Vert: 44=-191 (B), 45=-191 (B), 46=-191 (B),
47=-191 (B), 48=-191 (B), 49=-191 (B), 50=-191 (B),
51=-191 (B), 52=-191 (B), 53=-191 (B), 54=-191 (B),
55=-191 (B), 56=-191 (B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



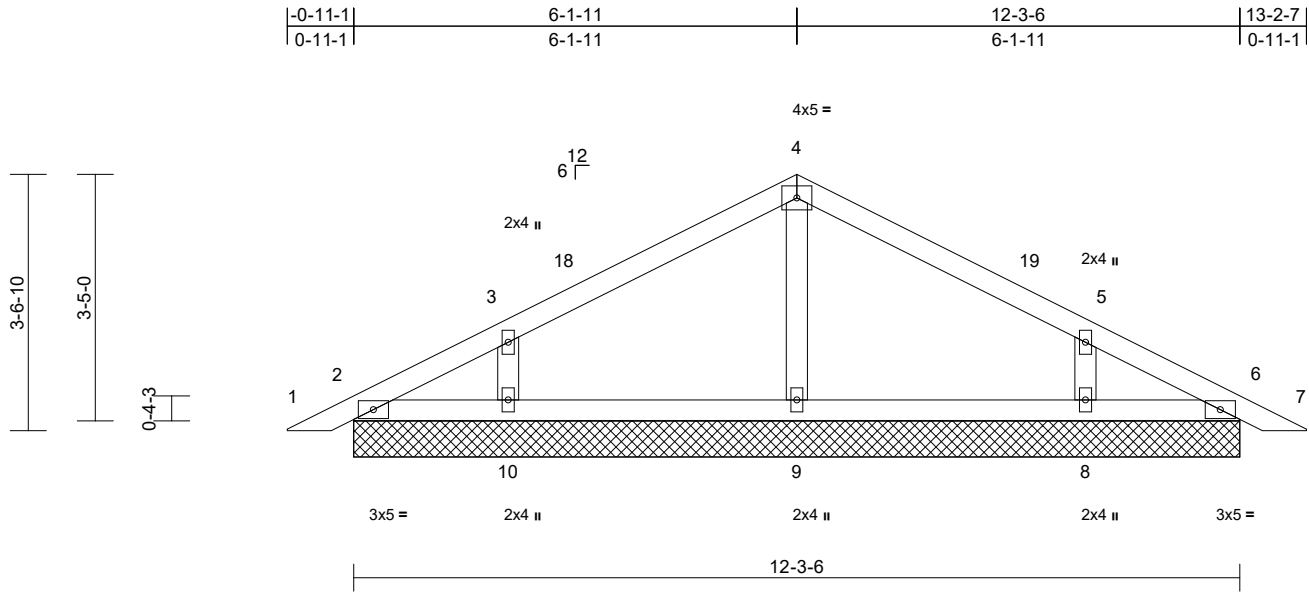
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss PB1	Truss Type Piggyback	Qty 11	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640984
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:21
ID:8Op_I7GX6NJU1ulsCRS6qznadd-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 49 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) 2=12-3-6, 6=12-3-6, 8=12-3-6, 9=12-3-6, 10=12-3-6, 11=12-3-6, 15=12-3-6
Max Horiz 2=-54 (LC 15), 11=-54 (LC 15)
Max Uplift 2=-11 (LC 15), 6=5 (LC 15), 8=-88 (LC 15), 10=-88 (LC 14), 11=-11 (LC 15), 15=-5 (LC 15)
Max Grav 2=98 (LC 1), 6=98 (LC 1), 8=429 (LC 22), 9=300 (LC 21), 10=429 (LC 21), 11=98 (LC 1), 15=98 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-54/44, 3-4=-124/97, 4-5=-124/97, 5-6=-37/44, 6-7=0/17
BOT CHORD 2-10=-5/47, 9-10=-2/47, 8-9=-2/47, 6-8=-5/47
WEBS 4-9=-214/87, 3-10=-375/190, 5-8=-375/190

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-3 to 3-1-4, Interior (1) 3-1-4 to 4-1-4, Exterior(2R) 4-1-4 to 10-1-4, Interior (1) 10-1-4 to 10-10-5, Exterior(2E) 10-10-5 to 13-10-5 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4'-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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. 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.

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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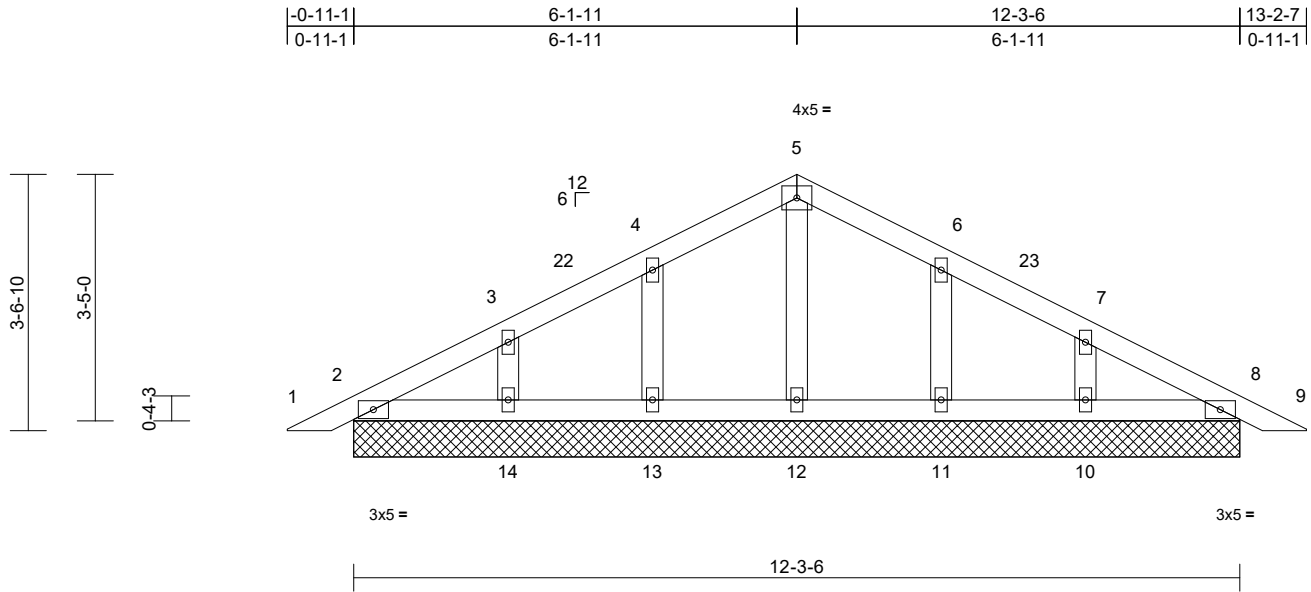
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss PB2	Truss Type Piggyback	Qty 2	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640985
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:21
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											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.

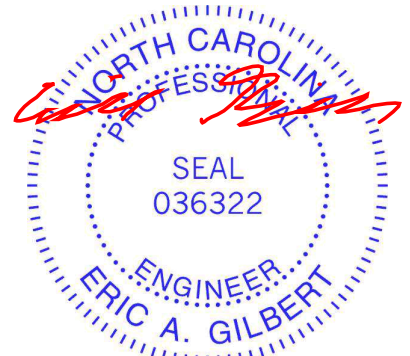
REACTIONS (size)
2=12-3-6, 8=12-3-6, 10=12-3-6,
11=12-3-6, 12=12-3-6, 13=12-3-6,
14=12-3-6, 15=12-3-6, 19=12-3-6
Max Horiz 2=54 (LC 18), 15=54 (LC 18)
Max Uplift 2=9 (LC 15), 8=-13 (LC 15),
10=-49 (LC 15), 11=-46 (LC 15),
13=-46 (LC 14), 14=-49 (LC 14),
15=-9 (LC 15), 19=-13 (LC 15)
Max Grav 2=134 (LC 21), 8=134 (LC 22),
10=257 (LC 22), 11=238 (LC 22),
12=144 (LC 22), 13=238 (LC 21),
14=257 (LC 21), 15=134 (LC 21),
19=134 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-48/35, 3-4=-58/51,
4-5=-64/108, 5-6=-64/108, 6-7=-58/45,
7-8=-33/29, 8-9=0/17
BOT CHORD 2-14=-9/58, 13-14=-9/58, 12-13=-9/58,
11-12=-9/58, 10-11=-9/58, 8-10=-9/58
WEBS 5-12=-102/0, 4-13=-204/117, 3-14=-194/88,
6-11=-204/117, 7-10=-194/88

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-3 to 3-1-4, Interior (1) 3-1-4 to 4-1-4, Exterior(2R) 4-1-4 to 10-1-4, Interior (1) 10-1-4 to 10-10-5, Exterior(2E) 10-10-5 to 13-10-5 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



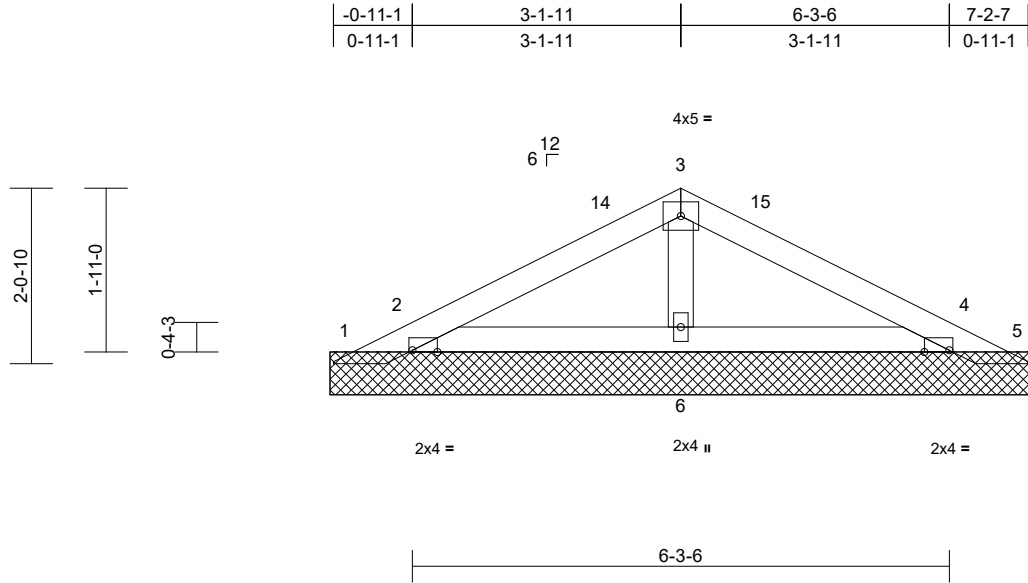
818 Soundside Road
Edenton, NC 27932

Job 24020061	Truss PB3	Truss Type Piggyback	Qty 3	Ply 1	DRB - 191 FaNC Job Reference (optional)	163640986
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 14 16:26:22
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Page: 1



Scale = 1:26.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											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 6-0-0 oc bracing.

REACTIONS

(size) 1=8-2-8, 2=8-2-8, 4=8-2-8, 5=8-2-8, 6=8-2-8, 7=8-2-8, 13=8-2-8
Max Horiz 1=30 (LC 14)
Max Uplift 1=-112 (LC 21), 2=-69 (LC 14), 4=-1 (LC 15), 5=-14 (LC 15), 6=-32 (LC 15), 7=-69 (LC 14), 13=-1 (LC 15)
Max Grav 1=42 (LC 14), 2=352 (LC 21), 4=4 (LC 22), 5=125 (LC 22), 6=470 (LC 22), 7=352 (LC 21), 13=4 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-45/81, 2-3=-61/200, 3-4=-57/231, 4-5=-53/28
BOT CHORD 2-6=-168/114, 4-6=-168/114
WEBS 3-6=-322/161

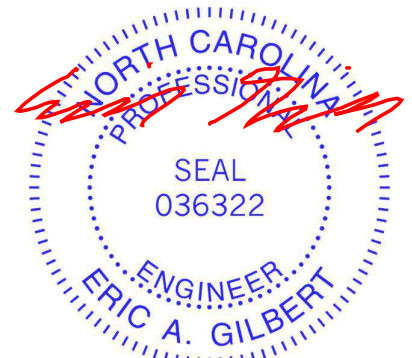
NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Exterior(2R) 3-4-3 to 4-10-5, Exterior(2E) 4-10-5 to 7-10-5 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 1, 14 lb uplift at joint 5 and 32 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie 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.

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 15, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

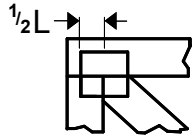
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



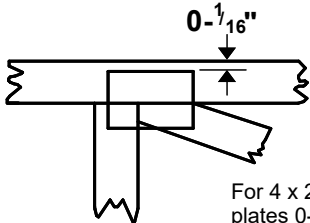
818 Soundside Road
Edenton, NC 27932

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.

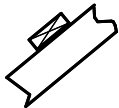
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

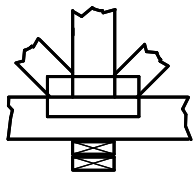
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

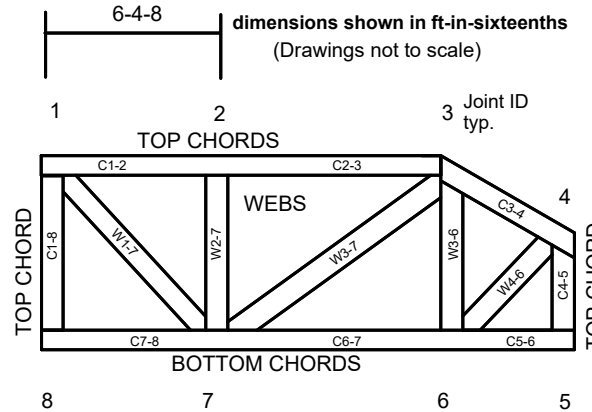


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-22: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek®

ENGINEERING BY
TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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