

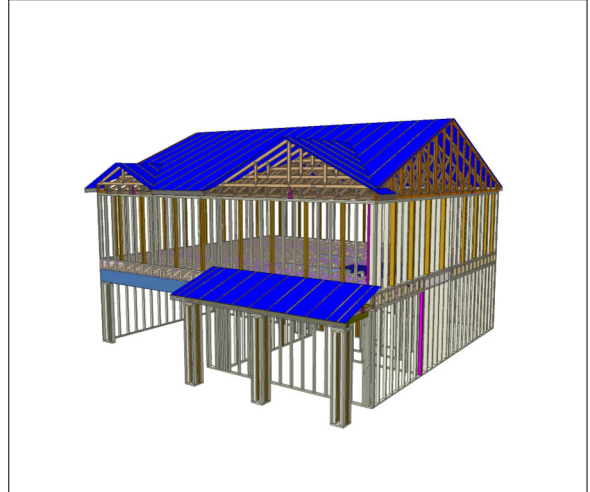


Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450

Builder: HH Hunt Homes Raleigh
Durham

Model: Edison CA FL GLH



THE PLACEMENT PLAN NOTES:

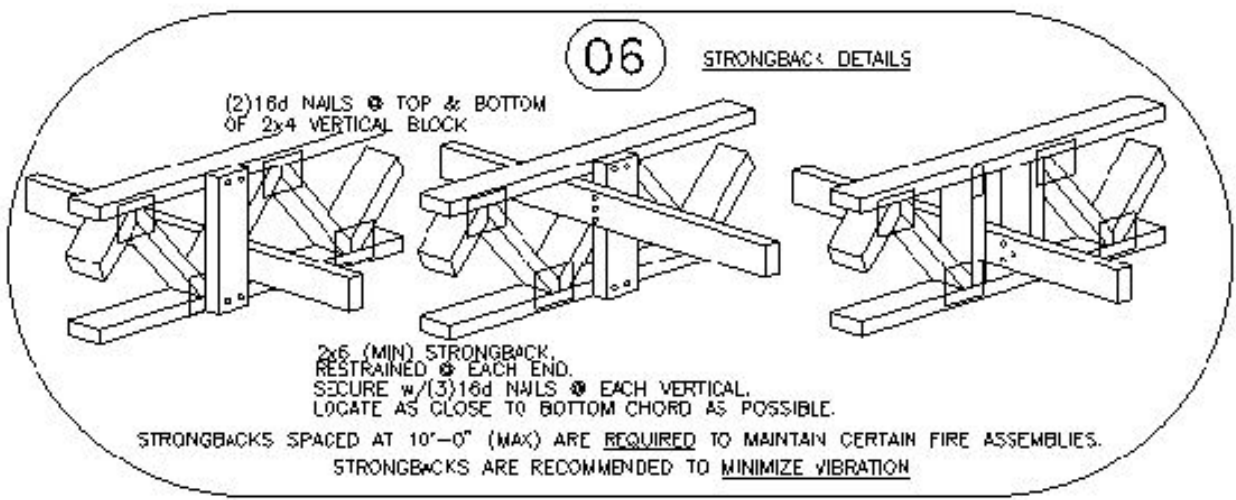
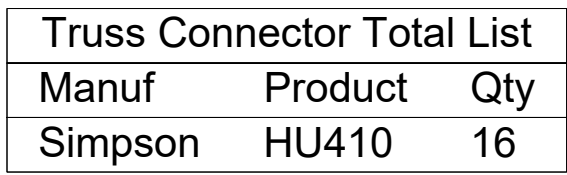
1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, 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.
9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By: _____

Date: _____

FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS



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

HH Hunt Homes Raleigh Durham
Lot 20 Oak Meadows - 2nd Floor Edison CA - GLH
FLOOR PLACEMENT PLAN

Date: 04/06/2007

Designer:

Geoff Weston

25060039-A

Sheet Number:



Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 25060039-A
Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH

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: I74100498 thru I74100513

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844

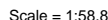


June 11, 2025

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.

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:05 Page: 1
ID:n1n2javuEOct9DvD3Kask0z7iA7-RfC?PsB70Hq3NSqPanL8w3ulTXbGKWCrD0i7J4zJC?f



LUMBER		TOP CHORD	1-58=-39/0, 29-30=-29/0, 1-2=-6/0, 2-3=-6/0,
TOP CHORD	2x4 SP No.2(flat)		3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0,
BOT CHORD	2x4 SP No.2(flat)		7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0,
WEBS	2x4 SP No.3(flat)		11-13=-6/0, 13-14=-6/0, 14-15=-6/0,
OTHERS	2x4 SP No.3(flat)		15-16=-6/0, 16-17=-6/0, 17-18=-6/0,

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.

REACTIONS

(size)	30=34-5-0, 31=34-5-0, 32=34-5-0, 33=34-5-0, 34=34-5-0, 35=34-5-0, 36=34-5-0, 37=34-5-0, 38=34-5-0, 39=34-5-0, 40=34-5-0, 42=34-5-0, 43=34-5-0, 44=34-5-0, 45=34-5-0, 46=34-5-0, 47=34-5-0, 48=34-5-0, 49=34-5-0, 51=34-5-0, 52=34-5-0, 53=34-5-0, 54=34-5-0, 55=34-5-0, 56=34-5-0, 57=34-5-0, 58=34-5-0
Max Grav	30=33 (LC 1), 31=103 (LC 1), 32=121 (LC 1), 33=116 (LC 1), 34=117 (LC 1), 35=117 (LC 1), 36=117 (LC 1), 37=117 (LC 1), 38=117 (LC 1), 39=117 (LC 1), 40=117 (LC 1), 42=117 (LC 1), 43=117 (LC 1), 44=117 (LC 1), 45=117 (LC 1), 46=117 (LC 1), 47=117 (LC 1), 48=117 (LC 1), 49=117 (LC 1), 51=117 (LC 1), 52=117 (LC 1), 53=117 (LC 1), 54=117 (LC 1), 55=117 (LC 1), 56=117 (LC 1), 57=117 (LC 1), 58=42 (LC 1)

FORCES

(Ib) - Maximum Compression/Maximum Tension

TOP CHORD

1-58=-39/0, 29-30=-29/0, 1-2=-6/0, 2-3=-6/0,
3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0,
7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0,
11-13=-6/0, 13-14=-6/0, 14-15=-6/0,
15-16=-6/0, 16-17=-6/0, 17-18=-6/0,
18-20=-6/0, 20-21=-6/0, 21-22=-6/0,
22-23=-6/0, 23-24=-6/0, 24-25=-6/0,
25-26=-6/0, 26-27=-6/0, 27-28=-6/0,
28-29=-6/0

BOT CHORD

57-58=0/6, 56-57=0/6, 55-56=0/6, 54-55=0/6,
53-54=0/6, 52-53=0/6, 51-52=0/6, 49-51=0/6,
48-49=0/6, 47-48=0/6, 46-47=0/6, 45-46=0/6,
44-45=0/6, 43-44=0/6, 42-43=0/6, 40-42=0/6,
39-40=0/6, 38-39=0/6, 37-38=0/6, 36-37=0/6,
35-36=0/6, 34-35=0/6, 33-34=0/6, 32-33=0/6,
31-32=0/6, 30-31=0/6
2-57=106/0, 3-56=107/0, 4-55=106/0,
5-54=107/0, 6-53=107/0, 7-52=107/0,
8-51=107/0, 9-49=107/0, 10-48=107/0,
11-47=107/0, 13-46=107/0, 14-45=107/0,
15-44=107/0, 16-43=107/0, 17-42=107/0,
18-40=107/0, 20-39=107/0, 21-38=107/0,
22-37=107/0, 23-36=107/0, 24-35=107/0,
25-34=107/0, 26-33=106/0, 27-32=109/0,
28-31=94/0

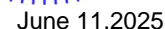
WEBS

2-57=-106/0, 3-56=-107/0, 4-55=-106/0,
5-54=-107/0, 6-53=-107/0, 7-52=-107/0,
8-51=-107/0, 9-49=-107/0, 10-48=-107/0,
11-47=-107/0, 13-46=-107/0, 14-45=-107/0,
15-44=-107/0, 16-43=-107/0, 17-42=-107/0,
18-40=-107/0, 20-39=-107/0, 21-38=-107/0,
22-37=-107/0, 23-36=-107/0, 24-35=-107/0,
25-34=-107/0, 26-33=-106/0, 27-32=-109/0,
28-31=-94/0

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" o.c.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" o.c. 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

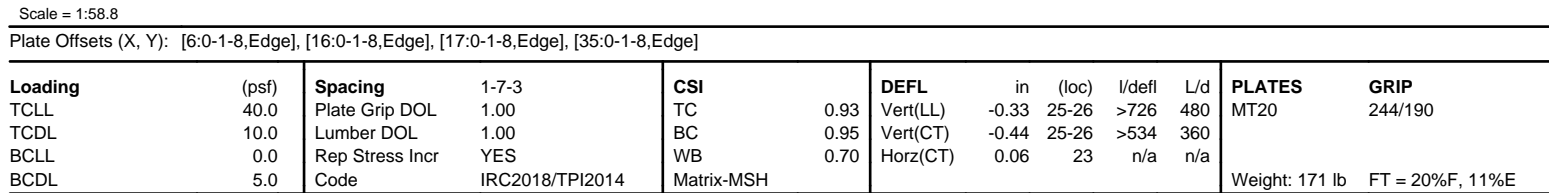


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 Components Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07 Page: 1
ID:FDLQwvX?ikknNUPd2B5HDz7jA6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



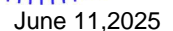
WEBS

5-35=-11/130, 6-34=0/229, 10-31=-159/0,
2-37=-983/0, 2-36=-41/646, 3-36=-113/0,
4-36=-317/164, 4-35=-518/0, 8-31=-1399/0,
8-32=0/1047, 7-32=-72/127, 6-32=-1243/0,
11-31=-1772/0, 11-30=0/1469, 12-30=-139/0,
13-30=-1152/0, 13-28=0/853, 14-28=-143/78,
16-28=-954/0, 21-23=-1368/0, 21-24=0/1030,
20-24=-137/0, 19-24=-718/0, 19-25=0/464,
18-25=-225/0, 17-25=-311/355,
16-27=-7/198, 17-26=-173/33

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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



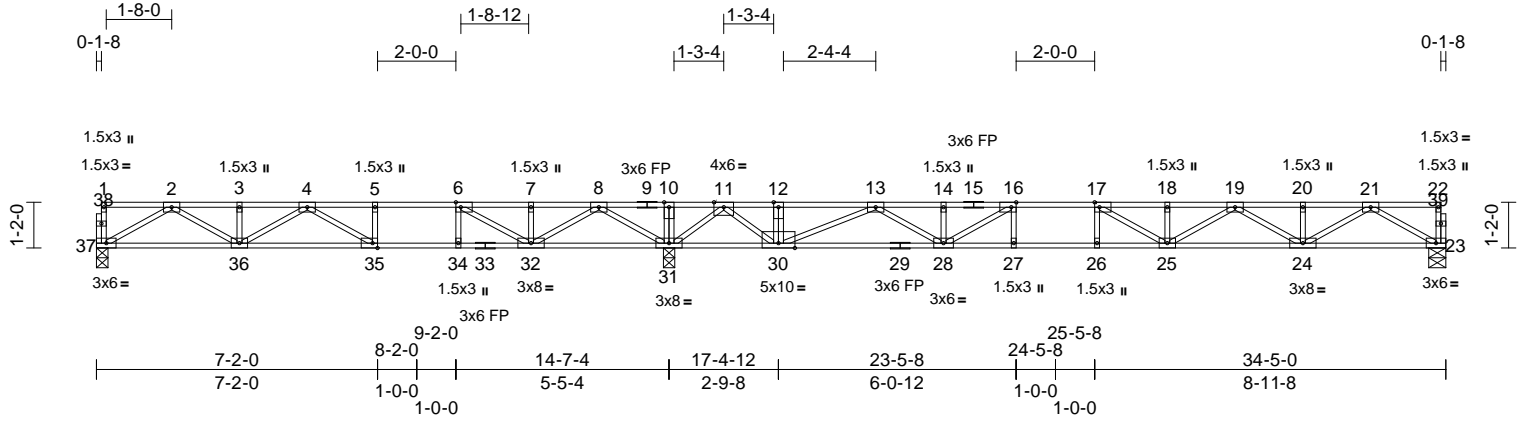
Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F203	Floor	2	1	I74100500
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07

Page: 1

ID:jQvp8Fx9m?sbPX3cBliiKpRz7jA5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i



Scale = 1:58.8

Plate Offsets (X, Y): [6:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [35:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.33	25-26	>723	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.44	25-26	>532	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	23	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 173 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* 1-9:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 33-29:2x4 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 23=0-5-4, 31=0-3-8, 37=0-3-8
Max Grav 23=758 (LC 4), 31=1794 (LC 1), 37=558 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-37=-56/0, 22-23=-57/0, 1-2=-3/0, 2-3=-1407/6, 3-4=-1407/6, 4-5=-1594/479, 5-6=-1594/479, 6-7=-837/1050, 7-8=-837/1050, 8-10=0/2302, 10-11=0/2302, 11-12=-367/319, 12-13=-367/319, 13-14=-2485/0, 14-16=-2485/0, 16-17=-3084/0, 17-18=-3082/0, 18-19=-3082/0, 19-20=-2069/0, 20-21=-2069/0, 21-22=-3/0
BOT CHORD 36-37=0/853, 35-36=-146/1679, 34-35=-479/1594, 32-34=-479/1594, 31-32=-1438/75, 30-31=-1095/0, 28-30=0/1796, 27-28=0/3084, 26-27=0/3084, 25-26=0/3084, 24-25=0/2684, 23-24=0/1186

WEBS
5-35=-11/130, 6-34=0/229, 10-31=-151/0, 12-30=-181/0, 16-27=-10/195, 17-26=-172/34, 2-37=-983/0, 2-36=-40/646, 3-36=-113/0, 4-36=-317/164, 4-35=-517/0, 8-31=-1405/0, 8-32=0/1047, 7-32=-71/128, 6-32=-1241/0, 21-23=-1368/0, 21-24=0/1030, 20-24=-137/0, 19-24=-719/0, 19-25=0/465, 18-25=-225/0, 17-25=-312/354, 11-31=-1506/0, 11-30=0/1390, 16-28=-942/0, 14-28=-131/79, 13-28=0/841, 13-30=-1604/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x5 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.
 - 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



June 11,2025

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

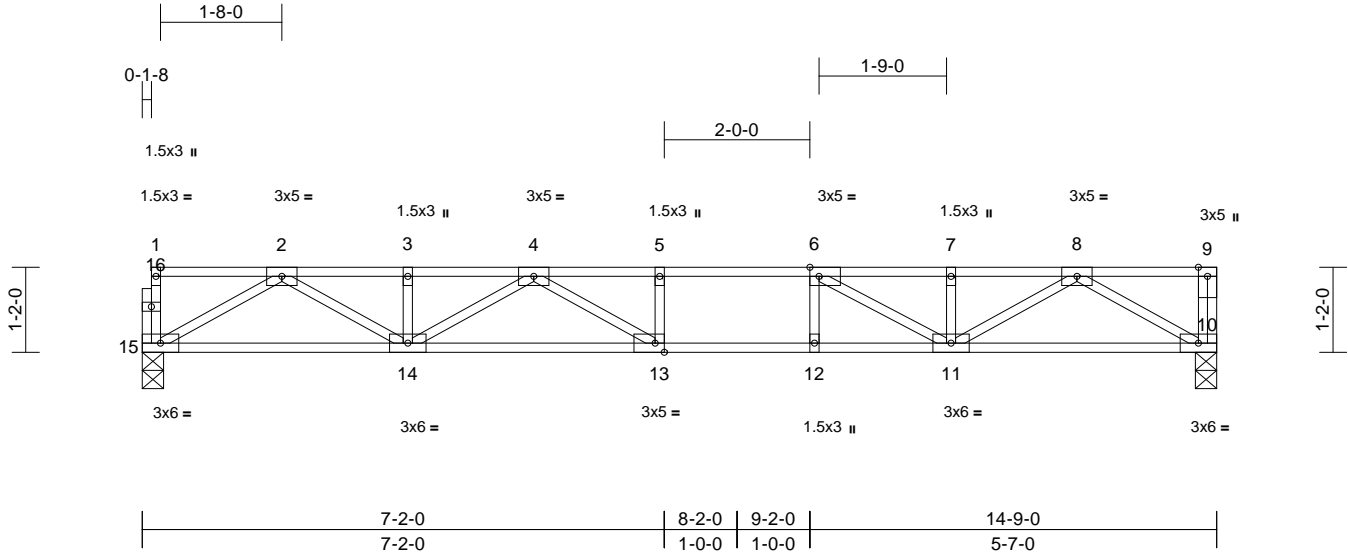
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F204	Floor	1	1	I74100501
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07
ID:jQvp8Fx9m?sbPX3cBliKpRz7jA5-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:31.6

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.19	13-14	>907	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.26	13-14	>673	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 74 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) 10=0-3-8, 15=0-3-8
Max Grav 10=638 (LC 1), 15=633 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-15=-56/0, 9-10=-59/0, 1-2=-3/0,
2-3=-1654/0, 3-4=-1654/0, 4-5=-2165/0,
5-6=-2165/0, 6-7=-1633/0, 7-8=-1633/0,
8-9=0/0

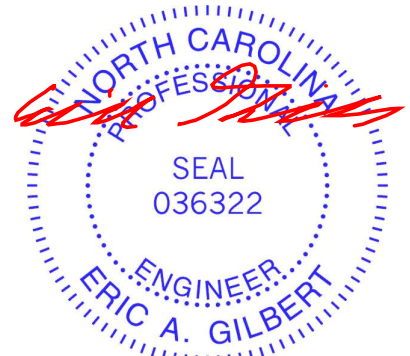
BOT CHORD 14-15=0/977, 13-14=0/2054, 12-13=0/2165,
11-12=0/2165, 10-11=0/973

WEBS 5-13=-144/0, 6-12=-23/115, 2-15=-1126/0,
2-14=0/791, 3-14=-124/0, 4-14=-466/0,
4-13=-69/370, 8-10=-1125/0, 8-11=0/770,
7-11=-153/56, 6-11=-730/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



June 11,2025

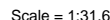
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07 Page: 1
ID: iQvp8Fx9m?sbPX3cBliKpRz7iA5-RfC?PsB70Ha3NSaPqnL8w3uITxbGKWRcDoi7J4zJC?i



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.22	13-14	>760	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.30	13-14	>563	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 73 lb	FT = 20%F, 11%E

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)

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.

Max Grav 10=781 (LC 1), 15=775 (LC 1)

TOP CHORD 1-15=-70/0, 9-10=-63/0, 1-2=-4/0,
2-3=-2016/0, 3-4=-2016/0, 4-5=-2587/0,
5-6=-2587/0, 6-7=-1901/0, 7-8=-1901/0,
8-9=0/0

WEBS 5-13=-164/0, 6-12=-21/165, 2-15=-1379/0,
2-14=0/957, 3-14=-152/0, 4-14=-550/0,
4-13=-108/420, 6-11=-927/0, 7-11=-180/74,
8-11=0/972, 8-10=-1279/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 5) CAUTION. Do not erect truss backwards.

 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 Components Association (www.sbcacomponents.com)

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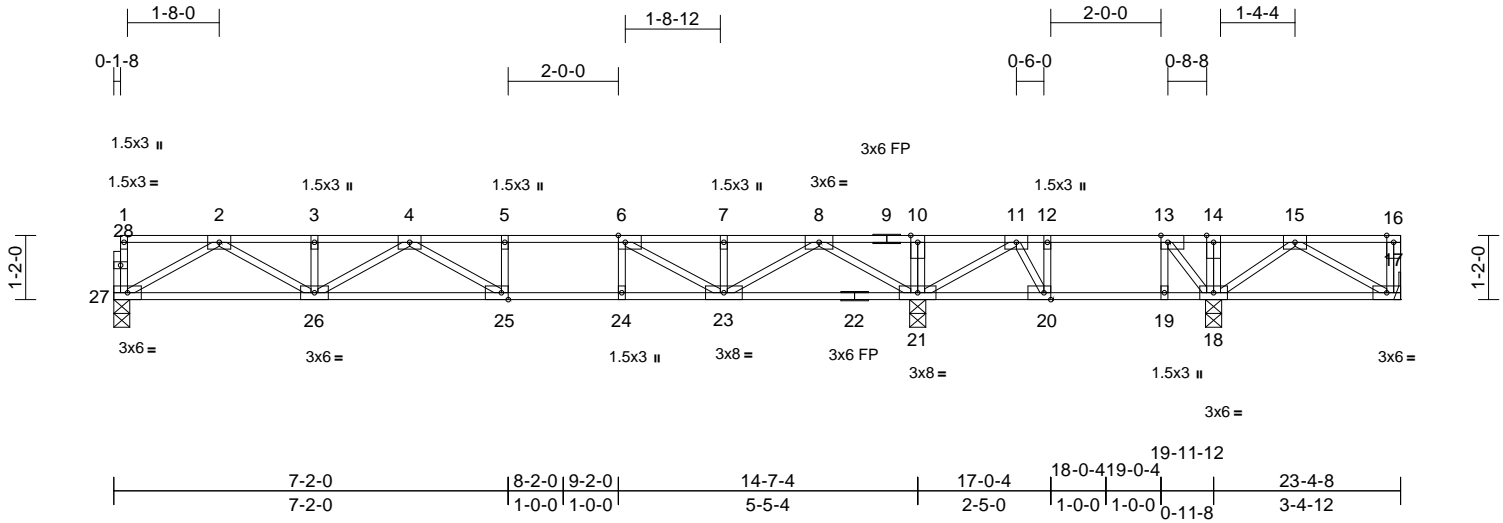
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F206	Floor	1	1	I74100503
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07
ID:BcTBLbynXJ_S0hdoISDZMez7jA4-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?fi

Page: 1



Scale = 1:41.9

Plate Offsets (X, Y): [6:0-1-8,Edge], [13:0-1-8,Edge], [20:0-1-8,Edge], [25:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.23	25-26	>751	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.32	25-26	>550	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	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.1(flat) *Except* 22-17:2x4 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 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size)	17= Mechanical, 18=0-3-8, 21=0-3-8, 27=0-3-8
	Max Uplift	17=89 (LC 3)
	Max Grav	17=164 (LC 4), 18=530 (LC 14), 21=1266 (LC 13), 27=730 (LC 5)

FORCES

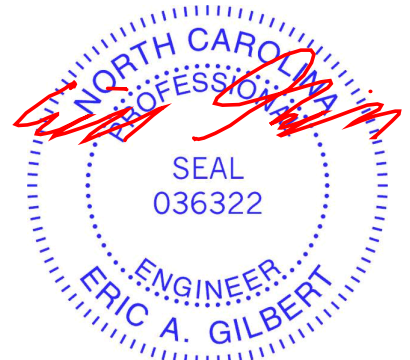
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-27=-69/0, 16-17=-72/0, 1-2=-4/0, 2-3=-1866/0, 3-4=-1866/0, 4-5=-2240/0, 5-6=-2240/0, 6-7=-1390/0, 7-8=-1390/0, 8-10=0/959, 10-11=0/959, 11-12=-153/552, 12-13=-153/552, 13-14=0/501, 14-15=0/501, 15-16=0/0
BOT CHORD	26-27=0/1121, 25-26=0/2258, 24-25=0/2240, 23-24=0/2240, 21-23=-41/482, 20-21=-635/71, 19-20=-552/153, 18-19=-552/153, 17-18=-199/136
WEBS	5-25=-108/14, 6-24=0/190, 10-21=-204/0, 12-20=-240/0, 13-19=-33/14, 14-18=-108/0, 13-18=-275/79, 2-27=-1292/0, 2-26=0/870, 3-26=-146/0, 4-26=-458/0, 4-25=-197/237, 8-21=-1487/0, 8-23=0/1082, 7-23=-161/79, 6-23=-1047/0, 11-21=-565/0, 11-20=0/312, 15-17=-157/230, 15-18=-461/0

NOTES

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

- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 17.
- 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



June 11,2025

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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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07 Page: 1
ID:8 bxmHz13wEAG nBstG1R3z7A2-RfC?PsB70Ha3NSaPqnL8w3ulTXbGKWRCDoI7J4zJC?f

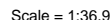


Plate Offsets (X, Y): [12:0-1-8,Edge], [13:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 20-15:2x4 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 15=0-3-8, 18=0-3-8, 24=0-3-8
Max Uplift 15=419 (LC 3)
Max Grav 15=57 (LC 4), 18=1671 (LC 1), 24=790 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-70/0, 14-15=-122/0, 1-2=-4/0,
2-3=-2063/0, 3-4=-2063/0, 4-5=-2692/0,
5-6=-2692/0, 6-7=-2692/0, 7-8=-1155/0,
8-10=-1155/0, 10-11=0/1619, 11-12=0/1619,
12-13=0/756, 13-14=-7/0

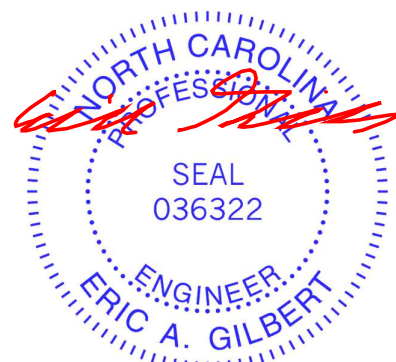
BOT CHORD 23-24=0/1220, 22-23=0/2560, 21-22=0/2692/
19-21=0/1999, 18-19=-194/53, 17-18=-756/0
16-17=-756/0, 15-16=-756/0

WEBS 5-22=-171/0, 6-21=-297/0, 11-18=-107/0,
2-24=-1406/0, 2-23=0/985, 3-23=-153/0,
4-23=-580/0, 4-22=-79/424, 10-18=-1791/0,
10-19=0/1383, 8-19=-179/0, 7-19=-993/0,
7-21=0/884, 12-18=-1185/0, 13-15=0/939,
12-17=0/315, 13-16=-296/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 419 lb uplift at joint 15

- 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



June 11.2025



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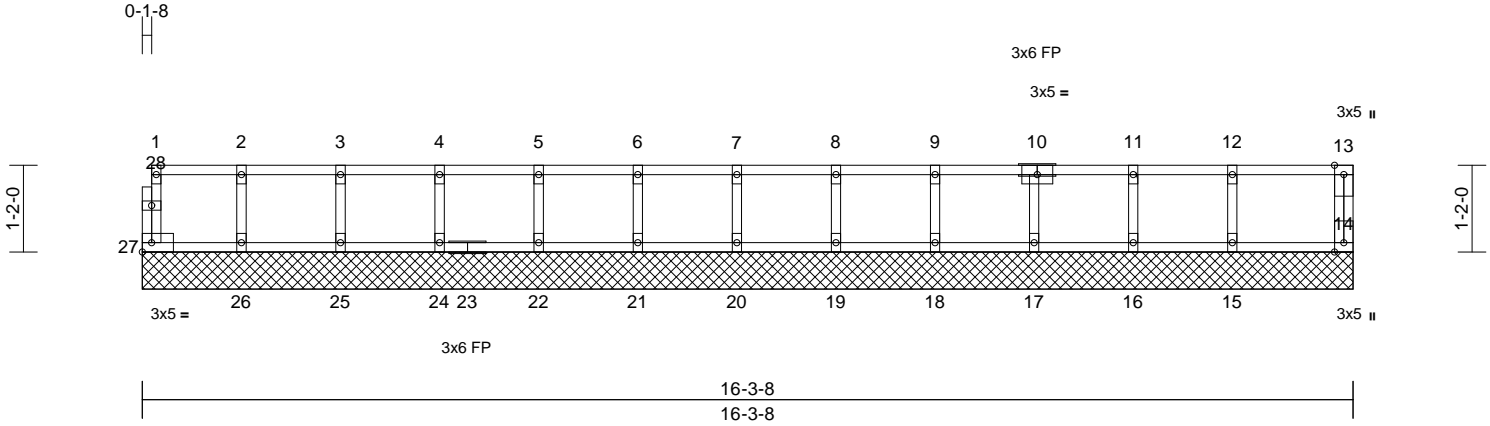
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F209	Floor Supported Gable	1	1	I74100506
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:07
ID:8_bxmH13wEAG_nBstG1R3z7jA2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR						Weight: 68 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)	14=16-3-8, 15=16-3-8, 16=16-3-8, 17=16-3-8, 18=16-3-8, 19=16-3-8, 20=16-3-8, 21=16-3-8, 22=16-3-8, 24=16-3-8, 25=16-3-8, 26=16-3-8, 27=16-3-8
	Max Grav	14=81 (LC 1), 15=161 (LC 1), 16=139 (LC 1), 17=148 (LC 1), 18=150 (LC 1), 19=146 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 24=146 (LC 1), 25=148 (LC 1), 26=141 (LC 1), 27=58 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

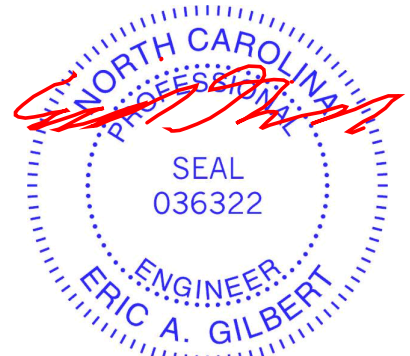
TOP CHORD	1-27=-52/0, 13-14=-74/0, 1-2=-11/0, 2-3=-11/0, 3-4=-11/0, 4-5=-11/0, 5-6=-11/0, 6-7=-11/0, 7-8=-11/0, 8-9=-11/0, 9-11=-17/0, 11-12=-17/0, 12-13=-17/0
BOT CHORD	26-27=0/11, 25-26=0/11, 24-25=0/11, 22-24=0/11, 21-22=0/11, 20-21=0/11, 19-20=0/11, 18-19=0/11, 17-18=0/11, 16-17=0/17, 15-16=0/17, 14-15=0/17
WEBS	2-26=-129/0, 3-25=-135/0, 4-24=-133/0, 5-22=-133/0, 6-21=-133/0, 7-20=-134/0, 8-19=-133/0, 9-18=-136/0, 10-17=-135/0, 11-16=-126/0, 12-15=-147/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



June 11, 2025

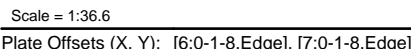
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:08 Page: 1
ID:8 bxmHz13wEAG nBstG1R3z7A2-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LUMBER		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.
TOP CHORD	2x4 SP No.2(flat)	6) CAUTION, Do not erect truss backwards.
BOT CHORD	2x4 SP No.2(flat) *Except* 20-14:2x4 SP No.1(flat)	
WEBS	2x4 SP No.3(flat)	LOAD CASE(S) Standard
OTHERS	2x4 SP No.3(flat)	

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-21.

REACTIONS (size) 14=0-5-4, 22=0-3-8
Max Gray 14=862 (LC 1), 22=867 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-59/0, 13-14=-57/0, 1-2=0/0, 2-3=-2420/0, 3-4=-2420/0, 4-5=-3753/0, 5-6=-3753/0, 6-7=-4060/0, 7-8=-3751/0, 8-10=-3751/0, 10-11=-2419/0, 11-12=-2419/0, 12-13=-3/0
BOT CHORD	21-22=0/1366, 19-21=0/3204, 18-19=0/4060, 17-18=0/4060, 16-17=0/4060, 15-16=0/3205, 14-15=0/1365
WEBS	6-18=-102/127, 7-17=-101/131, 2-22=-1581/0, 2-21=0/1230, 3-21=-135/0, 4-21=-915/0, 4-19=0/641, 5-19=-191/42, 6-19=-683/80, 12-14=-1575/0, 12-15=0/1230, 11-15=-134/0, 10-15=-917/0, 10-16=0/638, 8-16=-188/46, 7-16=-686/78

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 11.2025

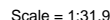
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ID:8 bxmHz13wEAG nBstG1R3z7A2-RfC?PsB70Ha3NSaPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.08	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.10	9	>972	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 46 lb	FT = 20%F, 11%E

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

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.

FORCES (lb) - Maximum Compression/Maximum Tension

WEBS 2-10=0/122, 3-9=-212/0, 2-11=-922/0,
5-7=-745/0, 5-8=0/334, 4-8=-223/0,
3-8=-89/294

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" 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.

 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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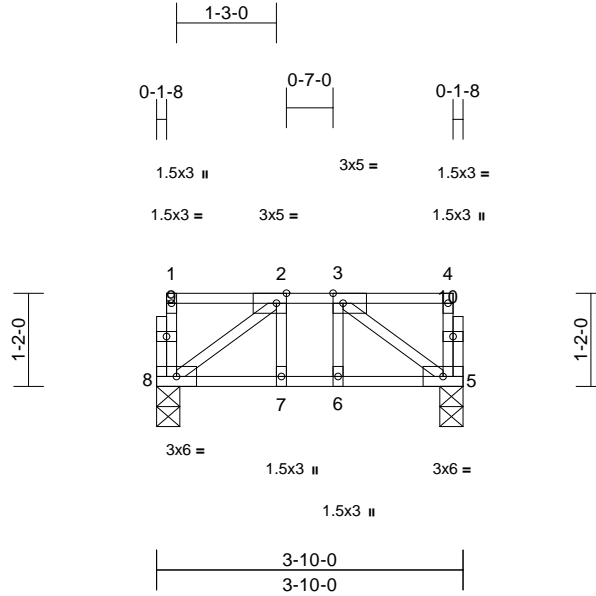
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F212	Floor	1	1	I74100509
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:08
ID:8_bxmHz13wEAG_nBstG1R3z7JA2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:28.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 23 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
3-10-0 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=191 (LC 1), 8=191 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-8=-63/0, 4-5=-63/0, 1-2=-4/0, 2-3=-176/0,
3-4=-4/0

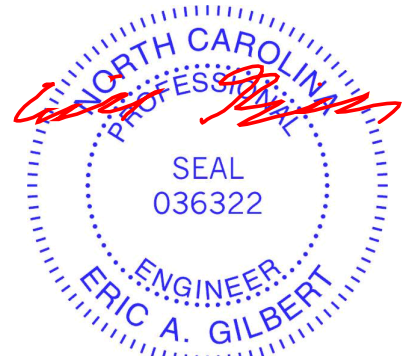
BOT CHORD 7-8=0/176, 6-7=0/176, 5-6=0/176

WEBS 3-5=-213/0, 2-8=-213/0, 2-7=-16/38,
3-6=-16/38

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.

LOAD CASE(S) Standard



June 11,2025

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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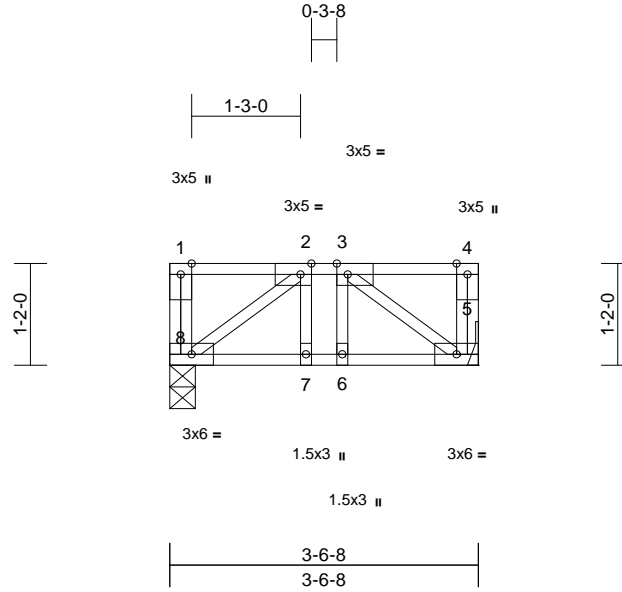
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F213	Floor	1	1	I74100510
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:08
ID:8_bxmHz13wEAG_nBstG1R3z7JA2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:26.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 23 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 5= Mechanical, 8=0-3-8
Max Grav 5=181 (LC 1), 8=181 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-8=-64/0, 4-5=-64/0, 1-2=0/0, 2-3=-158/0,
3-4=0/0

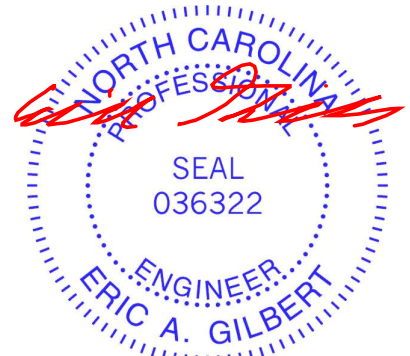
BOT CHORD 7-8=0/158, 6-7=0/158, 5-6=0/158

WEBS 3-5=-195/0, 3-6=-28/48, 2-7=-28/48,
2-8=-195/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



June 11, 2025

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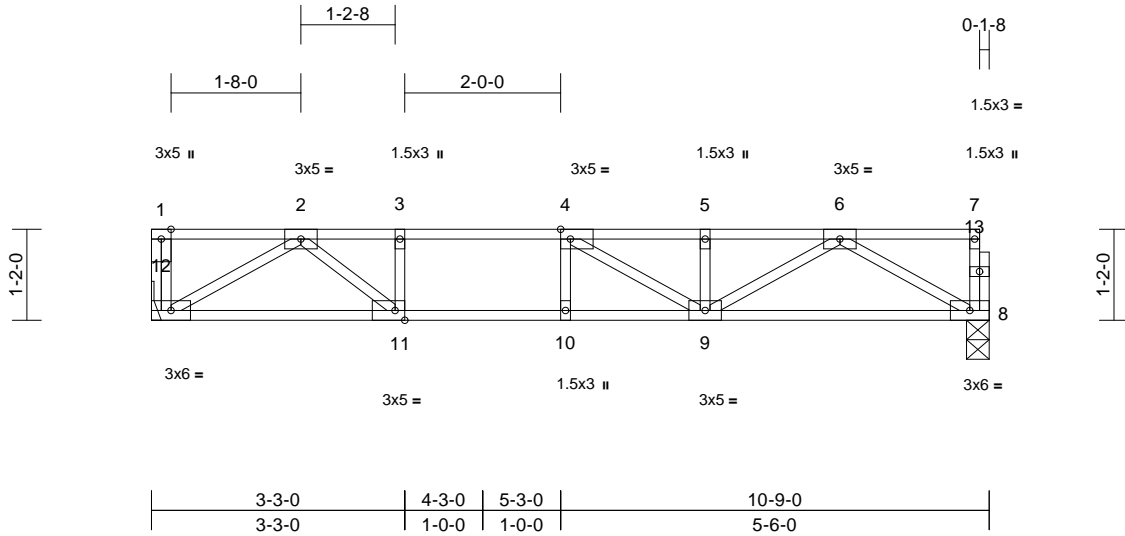
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH
25060039-A	F214	Floor	5	1	I74100511
Job Reference (optional)					

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:08
ID:8_bxmHz13wEAG_nBstG1R3z7jA2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.13	9-10	>957	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.17	9-10	>738	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 55 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) 8=0-3-8, 12= Mechanical
Max Grav 8=571 (LC 1), 12=577 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-12=-86/0, 7-8=-73/0, 1-2=0/0, 2-3=-1352/0,
3-4=-1352/0, 4-5=-1348/0, 5-6=-1348/0,
6-7=-4/0

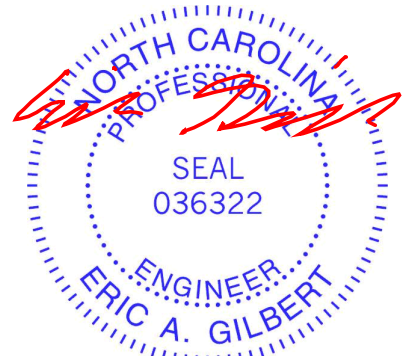
BOT CHORD 11-12=0/849, 10-11=0/1352, 9-10=0/1352,
8-9=0/840

WEBS 3-11=-322/0, 4-10=-111/0, 2-12=-982/0,
2-11=0/698, 6-8=-967/0, 6-9=0/593,
5-9=-244/0, 4-9=-253/119

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



June 11, 2025

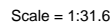
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:08 Page: 1
ID:cB9Jzd faEM118MNQbnG Hz7iA1-RfC?PsB70Ha3NSaPanL8w3uITXbGKWrcDdoi7J4zJC?f



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.13	9-10	>975	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.17	9-10	>761	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2018/TP12014	Matrix-MSH							Weight: 55 lb	FT = 20%F, 11%E

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)

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.

Max Grav 8=587 (LC 1), 12=587 (LC 1)

TOP CHORD 1-12=-82/0, 7-8=-73/0, 1-2=-5/0, 2-3=-1449/0,
3-4=-1449/0, 4-5=-1399/0, 5-6=-1399/0,
6-7=-4/0

WEBS 3-11=-295/0, 4-10=-107/11, 2-12=-1001/0,
2-11=0/731, 6-8=-999/0, 6-9=0/620,
5-9=-240/0, 4-9=-300/89

- 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.

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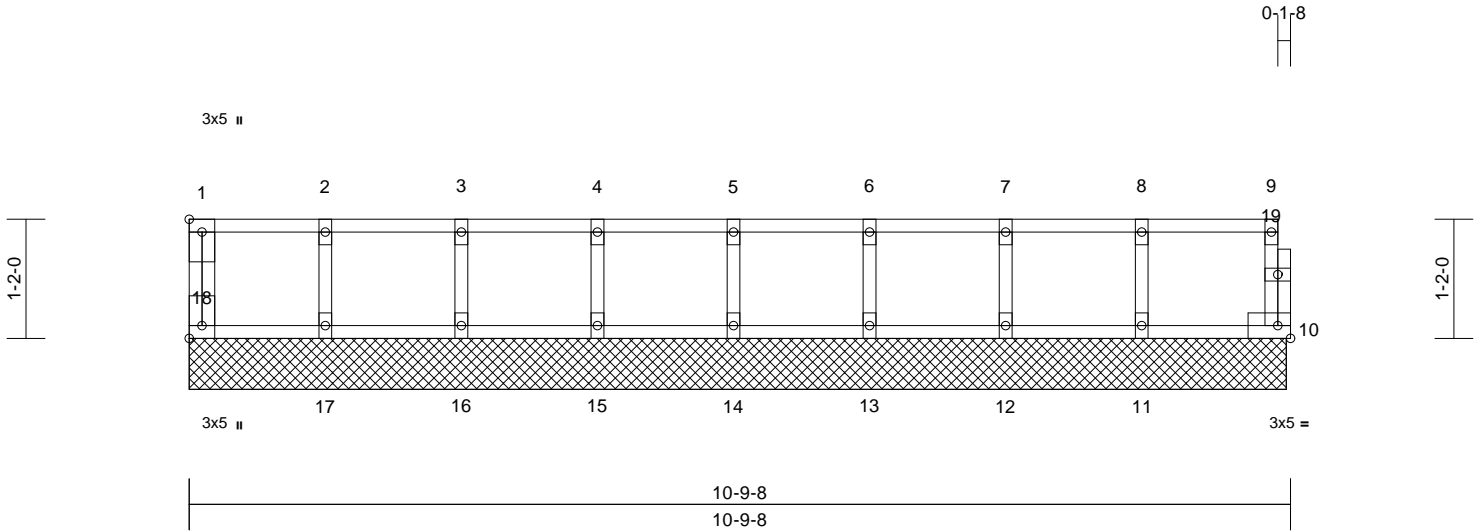
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 20 Oak Meadow-2nd Floor-Edison CA FL GLH I74100513
25060039-A	F216	Floor Supported Gable	1	1	Job Reference (optional)

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Jun 10 10:57:08
ID:cB9Jzd_fqEM1t8MNQbnG_Hz7jA1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	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	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 47 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)

- 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

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.

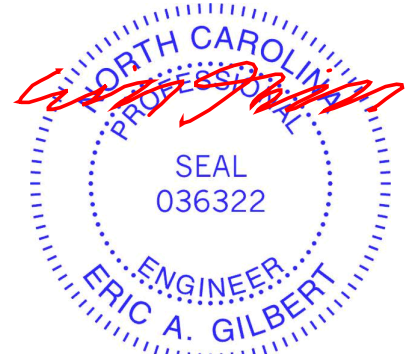
REACTIONS (size) 10=10-9-0, 11=10-9-0, 12=10-9-0, 13=10-9-0, 14=10-9-0, 15=10-9-0, 16=10-9-0, 17=10-9-0, 18=10-9-0
Max Grav 10=64 (LC 1), 11=151 (LC 1), 12=146 (LC 1), 13=147 (LC 1), 14=147 (LC 1), 15=146 (LC 1), 16=148 (LC 1), 17=141 (LC 1), 18=64 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-57/0, 9-10=-58/0, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0
BOT CHORD 17-18=0/12, 16-17=0/12, 15-16=0/12, 14-15=0/12, 13-14=0/12, 12-13=0/12, 11-12=0/12, 10-11=0/12
WEBS 2-17=-129/0, 3-16=-135/0, 4-15=-133/0, 5-14=-133/0, 6-13=-134/0, 7-12=-133/0, 8-11=-137/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- N/A
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 11,2025

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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

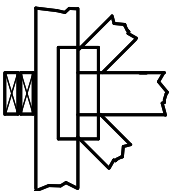
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

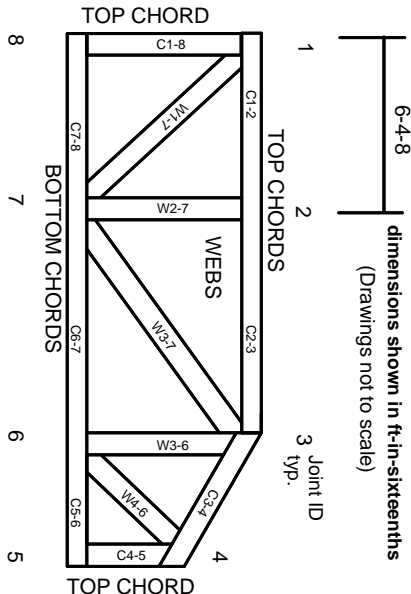


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: 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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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