



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

Phone #:919-775-1450



Builder: HH Hunt Homes Raleigh
Durham

Model: Greyson HC MNR SP 3CG SL
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.

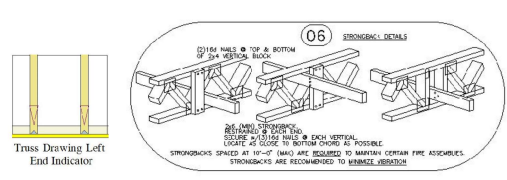
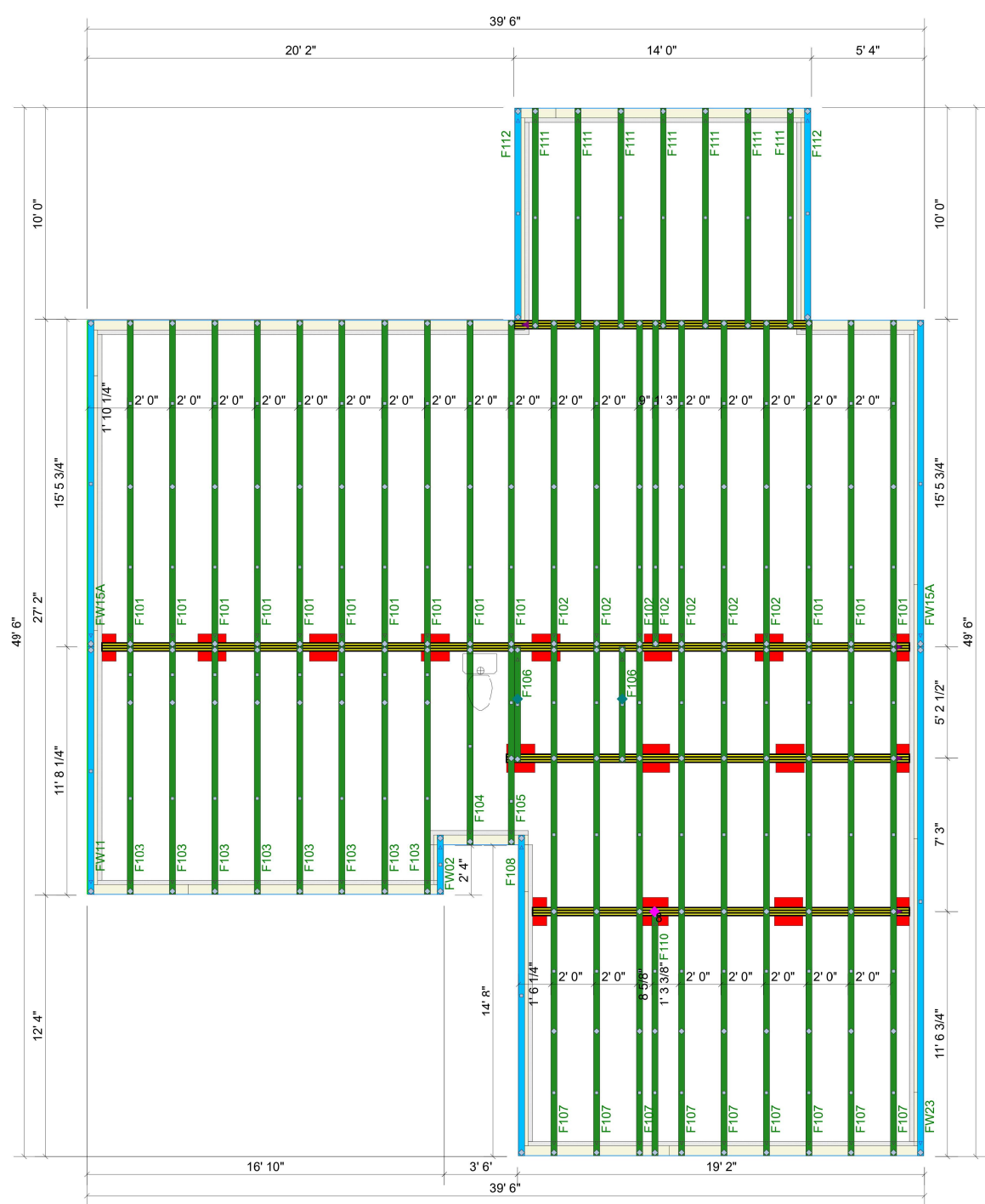
Approved By: _____

Date: _____

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 POINT LOADS FROM ABOVE MUST BE TRANSFERRED TO BEARING FROM UNDER SIDE OF SHEATHING.

** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT MANUFACTURER. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.



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

TRANGULAR 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.

HH Hunt Homes Raleigh Durham
41 Magnolia Acres
Greysen HC
FLOOR 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	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

1/1

SCALE: NTS
DATE: 1/26/2025
Project Number: 25010143-02
Sheet Number: 1/1
Nick Darr

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 25010143-02

Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP 3CG SL 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: I71005154 thru I71005168

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

North Carolina COA: C-0844



January 28, 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.

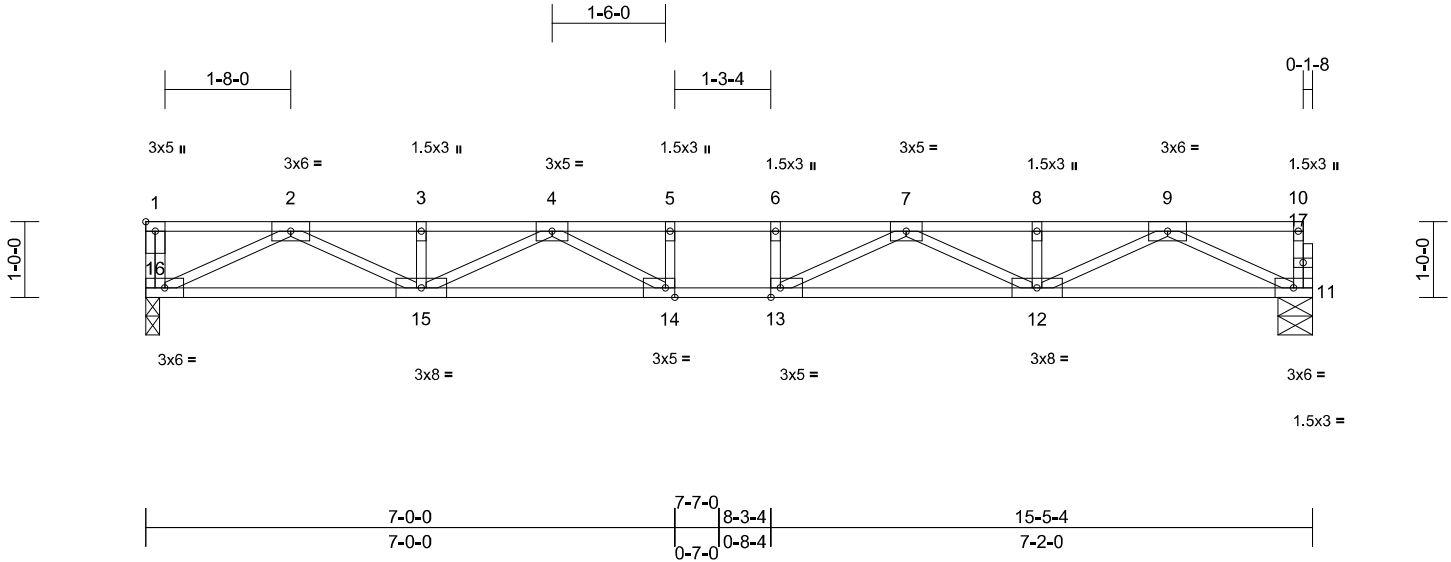
Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F101	Floor	13	1	I71005154
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:52

Page: 1

ID:OQlxqqr2CJ9aUylehUpaq_zrQZB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:30.5

Plate Offsets (X, Y): [1:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.26	13-14	>693	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.36	13-14	>505	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 76 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 2-2-0 oc bracing.

REACTIONS (size) 11=0-5-8, 16=0-2-3

Max Grav 11=829 (LC 1), 16=835 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-75/0, 10-11=-72/0, 1-2=0/0,
 2-3=-2602/0, 3-4=-2602/0, 4-5=-3594/0,
 5-6=-3594/0, 6-7=-3594/0, 7-8=-2603/0,
 8-9=-2603/0, 9-10=-5/0

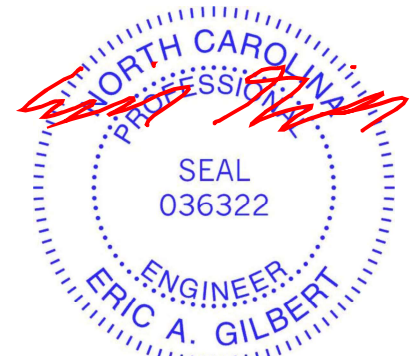
BOT CHORD 15-16=0/1523, 14-15=0/3277, 13-14=0/3594,
 12-13=0/3280, 11-12=0/1523

WEBS 5-14=-217/0, 2-16=-1695/0, 2-15=0/1208,
 3-15=-167/0, 9-11=-1689/0, 9-12=0/1210,
 8-12=-164/0, 4-15=-757/0, 4-14=-21/620,
 7-12=-759/0, 7-13=-29/619, 6-13=-200/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP No.2.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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



January 28, 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/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)



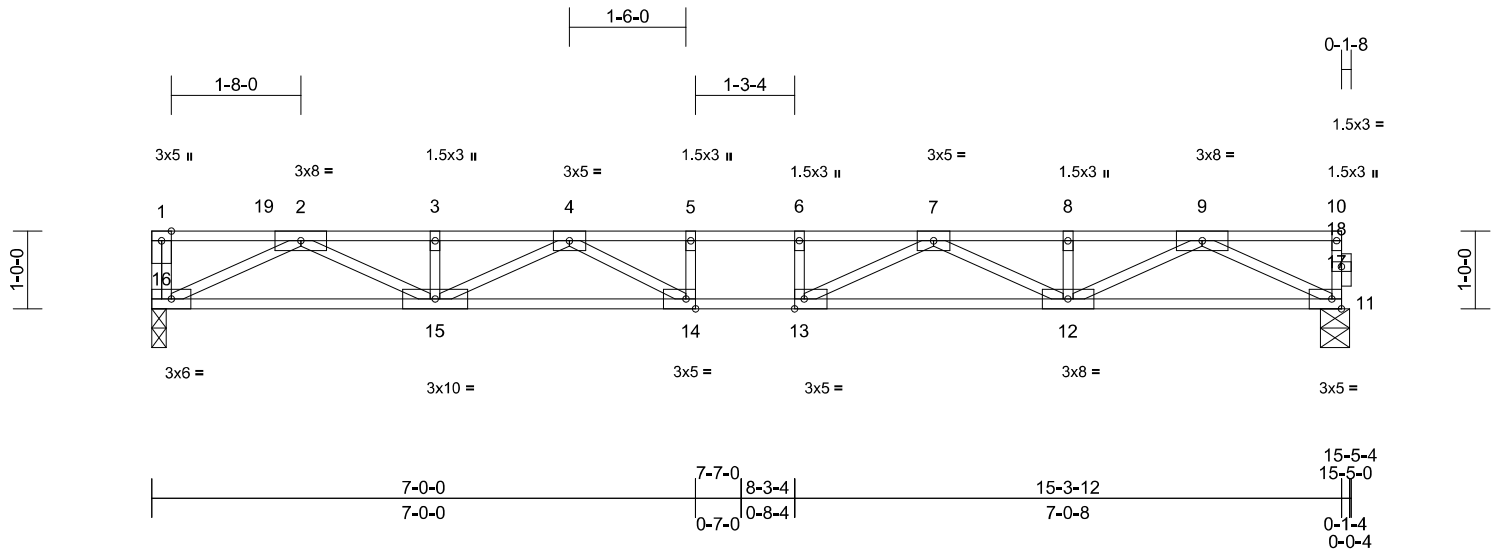
818 Soundside Road
 Edenton, NC 27932

Job 25010143-02	Truss F102	Truss Type Floor	Qty 7	Ply 1	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP I71005155 Job Reference (optional)
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Page: 1



Scale = 1:29.7

Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.24	13-14	>744	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.39	14-15	>466	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 75 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 5-9-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 11=0-4-8, 16=0-2-3

Max Grav 11=884 (LC 1), 16=1105 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-103/0, 10-11=-71/0, 1-2=0/0,
 2-3=-3262/0, 3-4=-3262/0, 4-5=-4012/0,
 5-6=-4012/0, 6-7=-4012/0, 7-8=-2757/0,
 8-9=-2757/0, 9-10=0/0

BOT CHORD 15-16=0/2017, 14-15=0/3843, 13-14=0/4012,
 12-13=0/3548, 11-12=0/1572

WEBS 5-14=-156/19, 2-16=-2244/0, 2-15=0/1396,
 3-15=-294/0, 9-11=-1762/0, 9-12=0/1328,
 8-12=-166/0, 4-15=-651/0, 4-14=-182/451,
 7-12=-887/0, 7-13=0/780, 6-13=-241/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.1.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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.
- 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

- Dead + Floor Live (balanced): Lumber Increase=1.00,
 Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 11-16=-10, 1-10=-100
 Concentrated Loads (lb)
 Vert: 3=-162, 19=-162



January 28, 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/TPH 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)



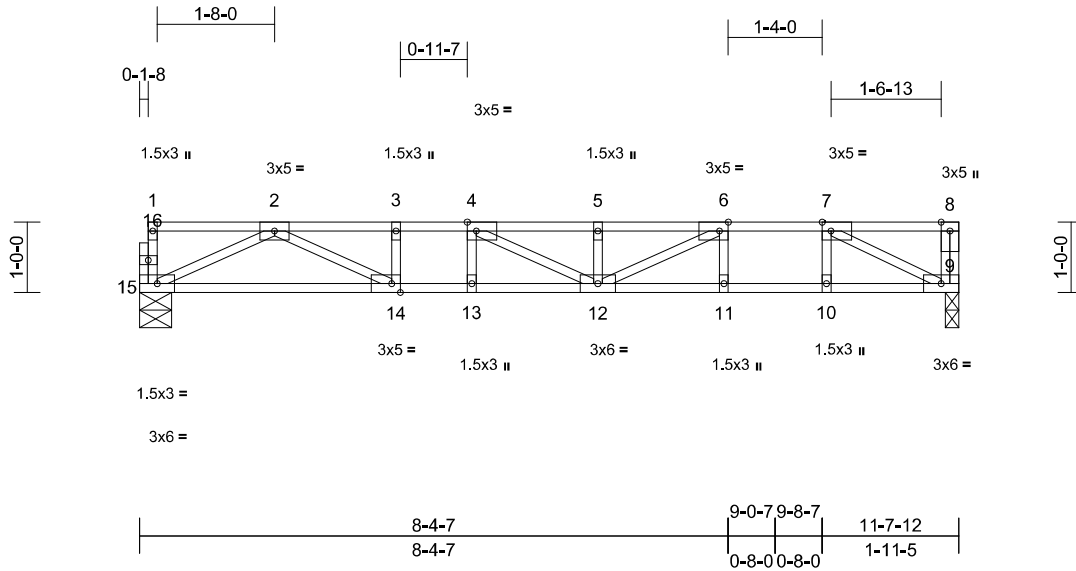
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F103	Floor	8	1	I71005156
Job Reference (optional)					

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

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Page: 1



Scale = 1:32.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.19	11-12	>711	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.26	11-12	>522	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 58 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, Except: 2-2-0 oc bracing: 11-12.

REACTIONS (size) 9=0-2-5, 15=0-5-8
 Max Grav 9=627 (LC 1), 15=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-15=-76/0, 8-9=-17/56, 1-2=-5/0, 2-3=-1846/0, 3-4=-1846/0, 4-5=-2130/0, 5-6=-2130/0, 6-7=-1367/0, 7-8=0/0
- BOT CHORD 14-15=0/1104, 13-14=0/1846, 12-13=0/1846, 11-12=0/1367, 10-11=0/1367, 9-10=0/1367
- WEBS 6-11=-291/0, 7-10=0/293, 6-12=0/893, 2-15=-1223/0, 5-12=-334/0, 2-14=0/831, 4-12=0/450, 3-14=-252/0, 4-13=-168/0, 7-9=-1528/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.1.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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



January 28, 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/TPI-1 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)



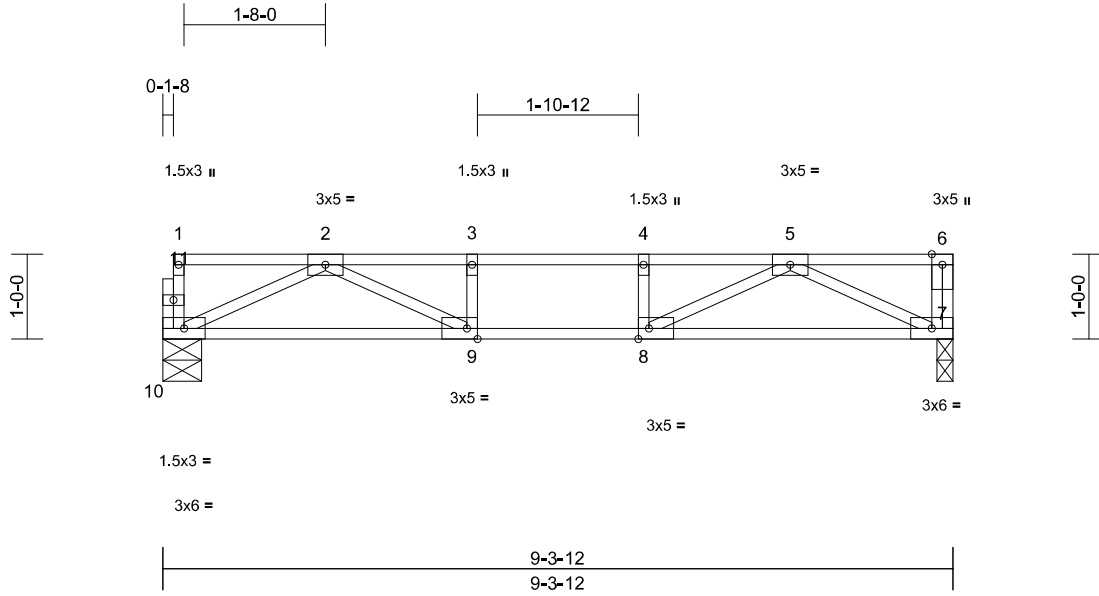
818 Soundside Road
 Edenton, NC 27932

Job 25010143-02	Truss F104	Truss Type Floor	Qty 1	Ply 1	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP I71005157 Job Reference (optional)
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Page: 1



Scale = 1:27.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 45 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) 7=0-2-5, 10=0-5-8
 Max Grav 7=498 (LC 1), 10=492 (LC 1)

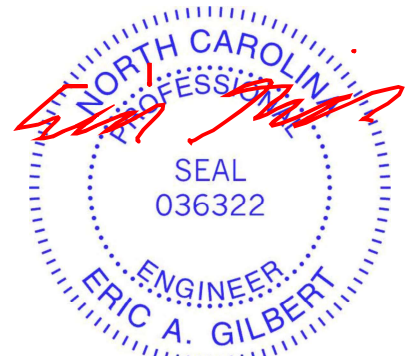
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-10=-72/0, 6-7=-74/0, 1-2=-5/0, 2-3=-1260/0,
 3-4=1260/0, 4-5=-1260/0, 5-6=0/0

BOT CHORD 9-10=0/833, 8-9=0/1260, 7-8=0/835
 WEBS 5-7=-930/0, 2-10=-922/0, 5-8=0/544,
 2-9=0/545, 4-8=-188/0, 3-9=-189/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP No.2.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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



January 28, 2025

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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)



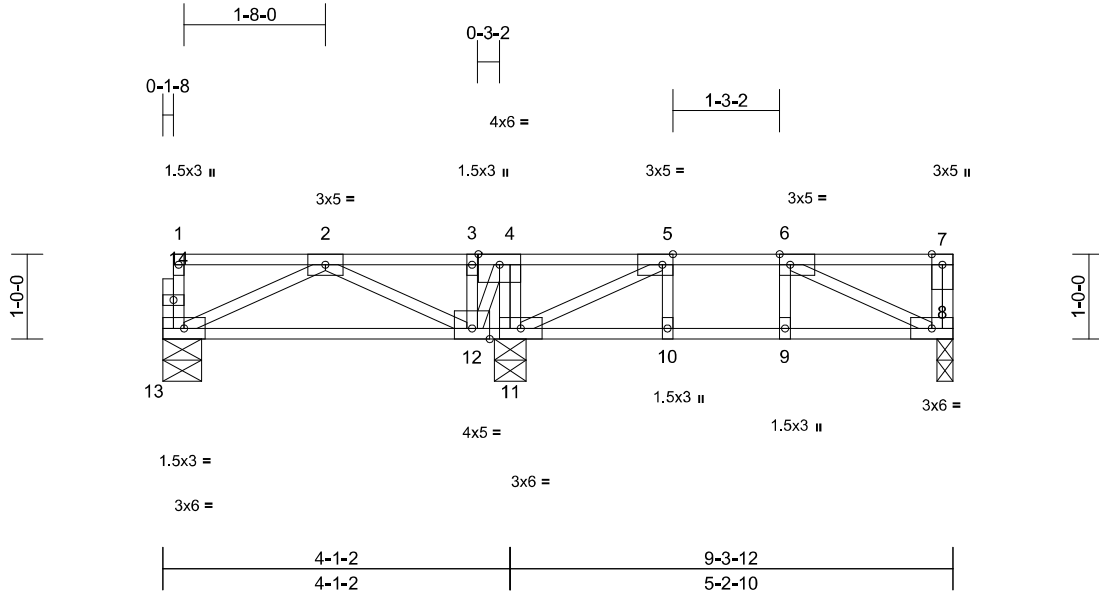
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F105	Floor	1	1	I71005158
Job Reference (optional)					

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

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Page: 1



Scale = 1:27.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 49 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: 6-0-0 oc bracing: 11-12.

- REACTIONS** (size) 8=0-2-5, 11=0-4-8, 13=0-5-8
 Max Grav 8=268 (LC 4), 11=555 (LC 7), 13=220 (LC 8)

- FORCES** (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-13=-69/0, 7-8=-83/0, 1-2=-5/0, 2-3=-163/59, 3-4=-163/59, 4-5=-37/173, 5-6=-370/0, 6-7=0/0
- BOT CHORD 12-13=0/286, 11-12=-173/37, 10-11=0/370, 9-10=0/370, 8-9=0/370
- WEBS 4-11=-370/0, 5-11=-463/0, 6-8=-409/0, 5-10=0/43, 6-9=-10/18, 2-13=-313/0, 2-12=-262/0, 3-12=-133/39, 4-12=0/281

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 28, 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/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)



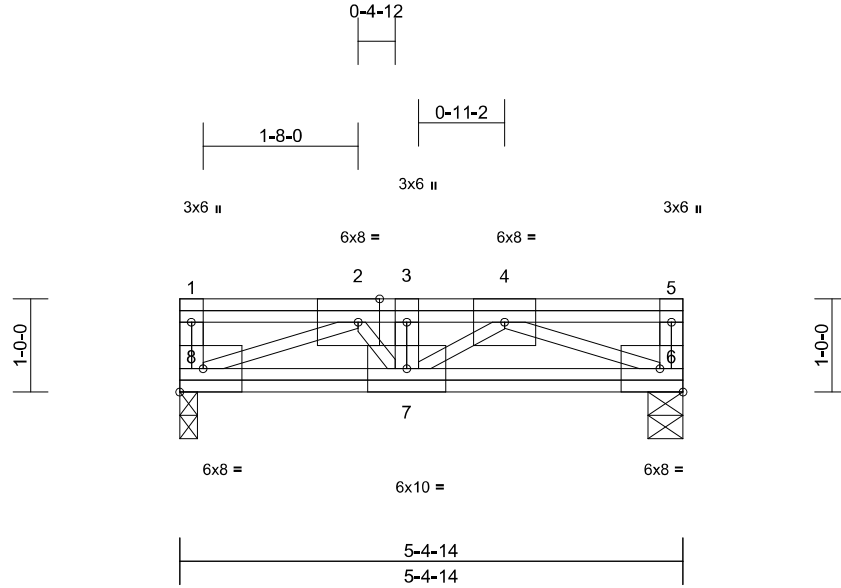
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F106	Floor	2	1	I71005159
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:53
 ID:QtPmie6Uiwm9xll6bWLDUzrQbL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?f

Page: 1



Scale = 1:24.8

Plate Offsets (X, Y): [2.0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.05	6-7	>999	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.06	6-7	>985	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 44 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 5-4-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=0-4-8, 8=0-2-5
 Max Grav 6=1405 (LC 1), 8=1662 (LC 1)

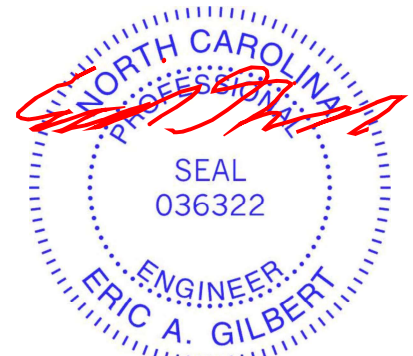
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-8=117/0, 5-6=97/0, 1-2=0/0, 2-3=-4398/0, 3-4=-4398/0, 4-5=0/0
 BOT CHORD 7-8=0/3560, 6-7=0/3007
 WEBS 4-6=-3260/0, 2-8=-3859/0, 3-7=-2253/0, 2-7=0/1469, 4-7=0/1709

NOTES

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 6-8=-10, 1-5=-100
 Concentrated Loads (lb)
 Vert: 3=-2500



January 28, 2025

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818 Soundside Road
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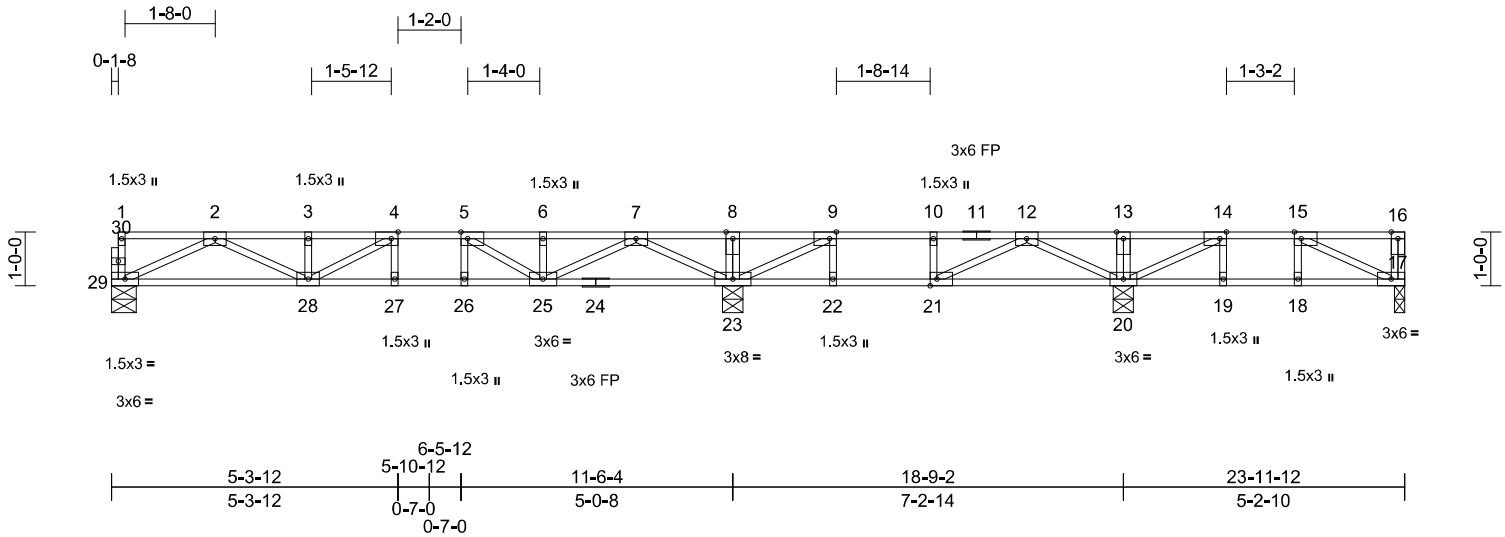
Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F107	Floor	9	1	I71005160
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:53

Page: 1

ID:ixu?hjWlWFAI8xj6Z1t67zrQWY-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.8

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [9:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [21:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.08	27-28	>999	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.11	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 118 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.

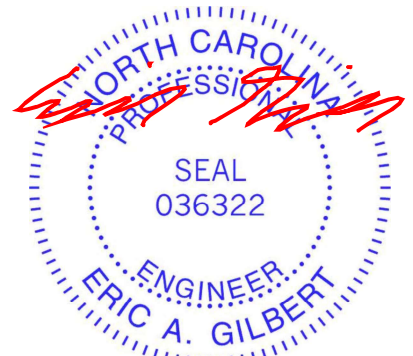
REACTIONS (size) 17=0-2-5, 20=0-4-8, 23=0-4-8, 29=0-5-8
Max Uplift 17=22 (LC 3)
Max Grav 17=221 (LC 5), 20=793 (LC 4), 23=1090 (LC 16), 29=577 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-29=-72/0, 16-17=-101/0, 1-2=-5/0, 2-3=-1599/0, 3-4=-1599/0, 4-5=-1732/0, 5-6=-1363/0, 6-7=-1363/0, 7-8=0/743, 8-9=0/743, 9-10=-486/333, 10-12=-486/333, 12-13=0/633, 13-14=0/633, 14-15=-234/177, 15-16=0/0
BOT CHORD 28-29=0/1009, 27-28=0/1732, 26-27=0/1732, 25-26=0/1732, 23-25=0/624, 22-23=-333/486, 21-22=-333/486, 20-21=-260/265, 19-20=-177/234, 18-19=-177/234, 17-18=-177/234
WEBS 4-27=-87/40, 5-26=-27/106, 8-23=-163/0, 13-20=-167/0, 2-29=-1117/0, 7-23=-1314/0, 12-20=-745/0, 9-23=-860/0, 12-21=-81/262, 9-22=0/88, 10-21=-121/28, 14-20=-747/0, 15-17=-258/196, 14-19=0/95, 15-18=-73/0, 2-28=0/661, 3-28=202/0, 4-28=-319/71, 7-25=0/868, 6-25=-173/16, 5-25=-548/0

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

- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- 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



January 28, 2025

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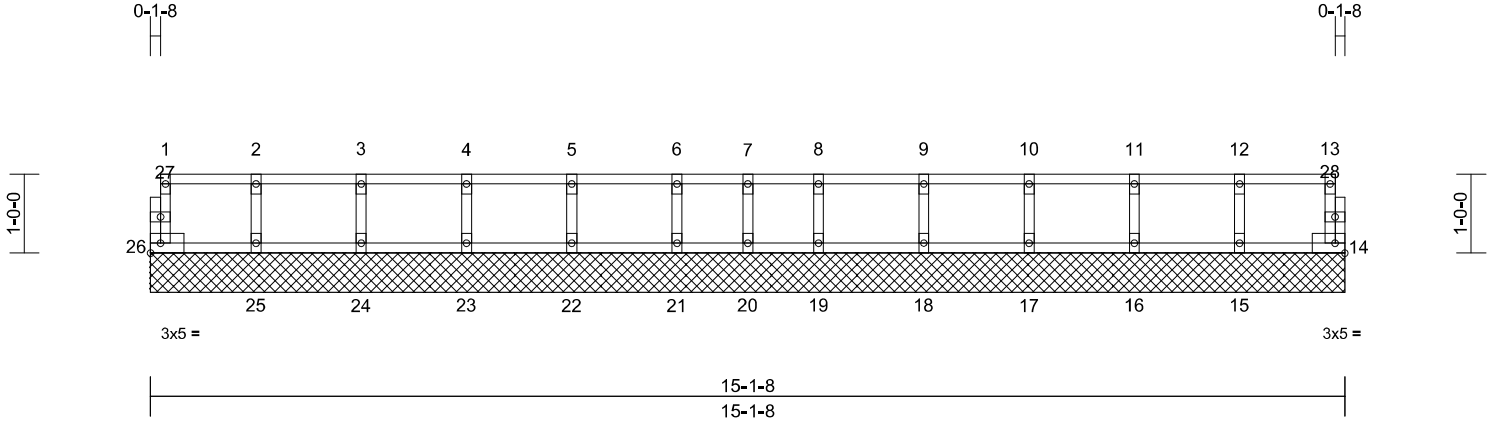
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F108	Floor Supported Gable	1	1	I71005161
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:53
ID:X8VgEzJMRWWAVa2YhCLA3yzXiPQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.2

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	0.17	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	NO	WB	0.06	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 61 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=15-1-8, 15=15-1-8, 16=15-1-8, 17=15-1-8, 18=15-1-8, 19=15-1-8, 20=15-1-8, 21=15-1-8, 22=15-1-8, 23=15-1-8, 24=15-1-8, 25=15-1-8, 26=15-1-8
 - Max Grav 14=101 (LC 1), 15=260 (LC 1), 16=269 (LC 1), 17=264 (LC 1), 18=274 (LC 1), 19=233 (LC 1), 20=146 (LC 1), 21=233 (LC 1), 22=274 (LC 1), 23=264 (LC 1), 24=269 (LC 1), 25=260 (LC 1), 26=101 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-26=-97/0, 13-14=-97/0, 1-2=-21/0, 2-3=-21/0, 3-4=-21/0, 4-5=-21/0, 5-6=-21/0, 6-7=-21/0, 7-8=-21/0, 8-9=-21/0, 9-10=-21/0, 10-11=-21/0, 11-12=-21/0, 12-13=-21/0
 - BOT CHORD 25-26=0/21, 24-25=0/21, 23-24=0/21, 22-23=0/21, 21-22=0/21, 20-21=0/21, 19-20=0/21, 18-19=0/21, 17-18=0/21, 16-17=0/21, 15-16=0/21, 14-15=0/21
 - WEBS 2-25=-247/0, 3-24=-256/0, 4-23=-251/0, 5-22=-260/0, 6-21=-222/0, 12-15=-247/0, 11-16=-256/0, 10-17=-251/0, 9-18=-260/0, 8-19=-222/0, 7-20=-139/0

- 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.
- All bearings are assumed to be SP No.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.
- 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.
- 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
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 14-26=-10, 1-13=-190



January 28, 2025

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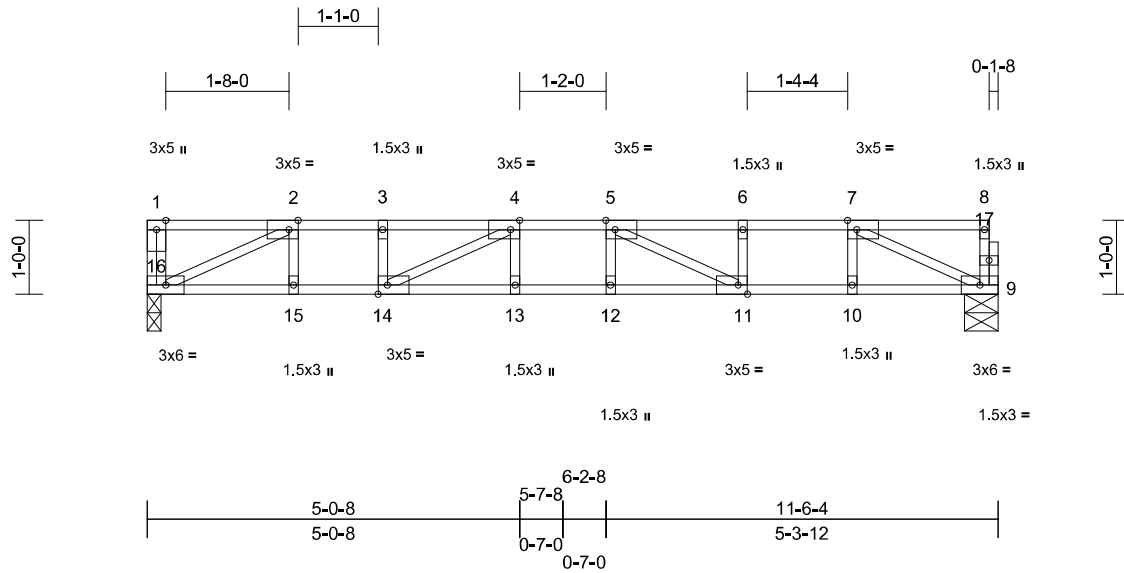
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F110	Floor	1	1	I71005162
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:53
ID:P70CLyqh9YaSu4HJeBsJjrQWX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:31.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.19	11-12	>717	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.26	11-12	>522	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 56 lb	FT = 20%F, 11%E

LUMBER

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 2400F 2.0E(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) 9=0-5-8, 16=0-2-4
Max Grav 9=614 (LC 1), 16=620 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-16=-46/31, 8-9=-33/46, 1-2=0/0, 2-3=-1345/0, 3-4=-1345/0, 4-5=-2041/0, 5-6=-1392/0, 6-7=-1392/0, 7-8=-2/3
 - BOT CHORD 15-16=0/1345, 14-15=0/1345, 13-14=0/2041, 12-13=0/2041, 11-12=0/2041, 10-11=0/1392, 9-10=0/1392
 - WEBS 4-13=0/168, 5-12=-3/157, 4-14=-833/0, 2-16=-1488/0, 2-15=0/302, 3-14=-6/134, 5-11=-781/0, 7-9=-1538/0, 6-11=-21/125, 7-10=0/305

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- All bearings are assumed to be SP 2400F 2.0E.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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



January 28, 2025

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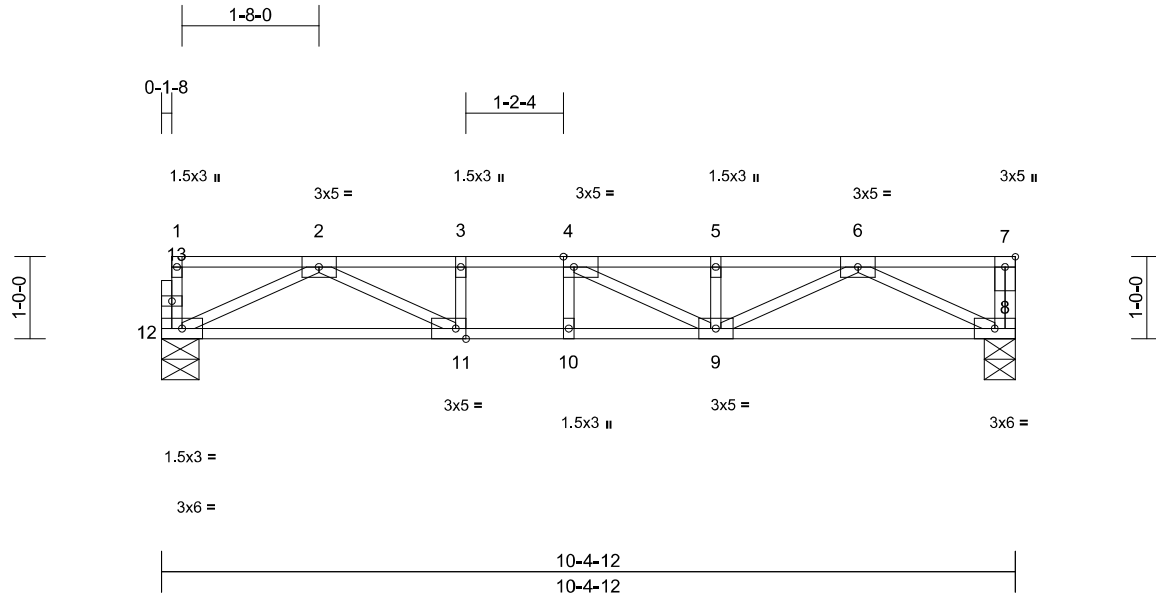
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F111	Floor	7	1	I71005163
Job Reference (optional)					

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:53
 ID:MD76bHx\F44RsA__3QzAS8ydS3S-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:28.1

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	0.38	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.11	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 52 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=0-4-8, 12=0-5-8

Max Grav 8=558 (LC 1), 12=552 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-12=-75/0, 7-8=-75/0, 1-2=-5/0, 2-3=-1549/0,
 3-4=1549/0, 4-5=-1511/0, 5-6=-1511/0,
 6-7=0/0

BOT CHORD 11-12=0/961, 10-11=0/1549, 9-10=0/1549,
 8-9=0/959

WEBS 6-8=1068/0, 2-12=-1064/0, 6-9=0/618,
 2-11=0/678, 5-9=-220/0, 3-11=-216/0,
 4-9=-273/127, 4-10=98/16

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP No.2.
- 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



January 28, 2025

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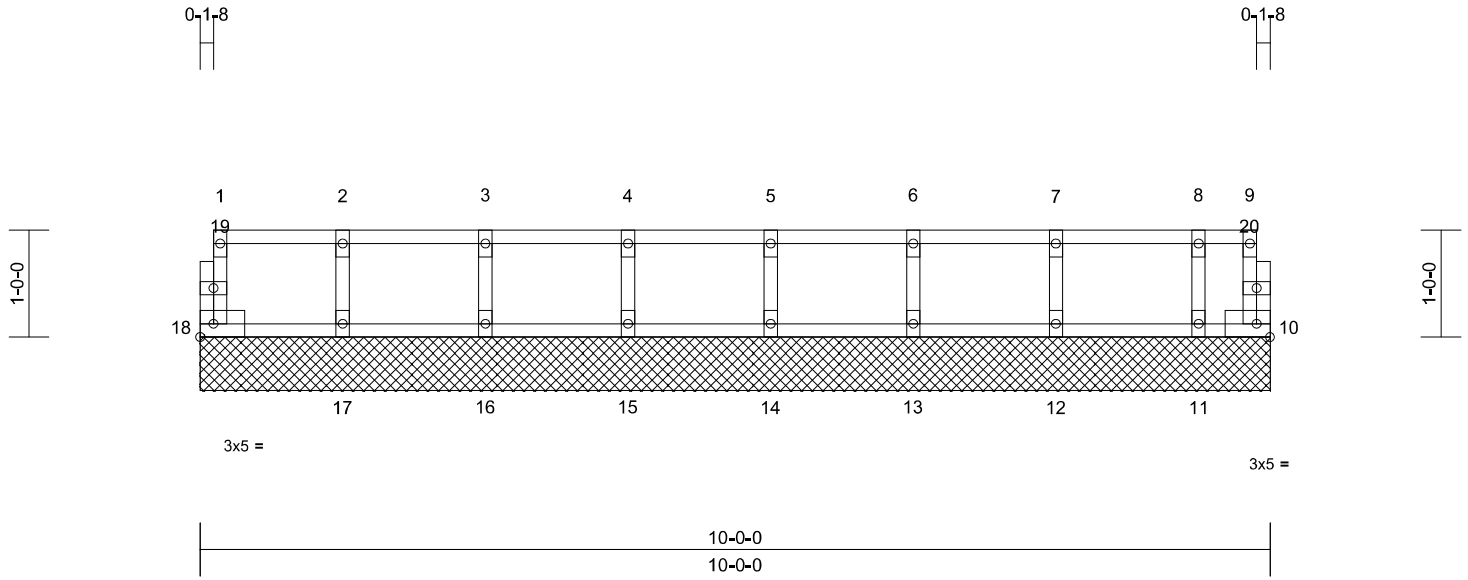
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	F112	Floor Supported Gable	2	1	I71005164
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:53
 ID:MD76bHxIF44RsA__3QzAS8ydS3S-RfC?PsB70Hq3NSgPqnl8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR						Weight: 41 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)

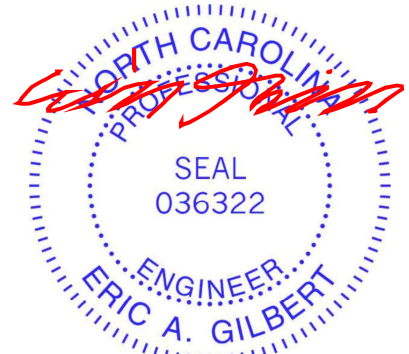
LOAD CASE(S) Standard

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=10-0-0, 11=10-0-0, 12=10-0-0, 13=10-0-0, 14=10-0-0, 15=10-0-0, 16=10-0-0, 17=10-0-0, 18=10-0-0
 Max Grav 10=16 (LC 1), 11=106 (LC 1), 12=153 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=148 (LC 1), 18=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-18=-49/0, 9-10=-8/0, 1-2=-8/0, 2-3=-8/0, 3-4=8/0, 4-5=8/0, 5-6=-8/0, 6-7=-8/0, 7-8=8/0, 8-9=8/0
 BOT CHORD 17-18=0/8, 16-17=0/8, 15-16=0/8, 14-15=0/8, 13-14=0/8, 12-13=0/8, 11-12=0/8, 10-11=0/8
 WEBS 2-17=-132/0, 3-16=-134/0, 4-15=-133/0, 5-14=-134/0, 6-13=-132/0, 7-12=-139/0, 8-11=-103/0

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 1-4-0 oc.
 5) All bearings are assumed to be SP No.2.
 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.



January 28, 2025

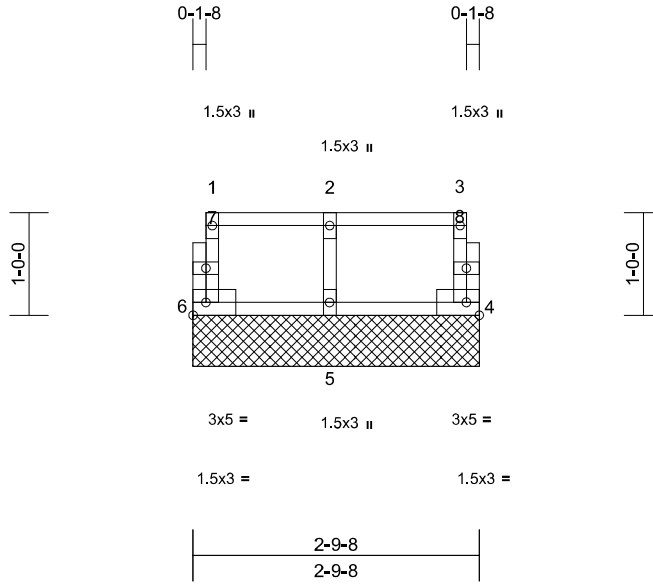
Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP I71005165
25010143-02	FW02	Floor Supported Gable	1	1	Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:54

Page: 1

ID: tHjHbFIVHNj_WWi_YXNCFzXiQ8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:22.5

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 13 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 2-9-8 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

- (size) 4=2-9-8, 5=2-9-8, 6=2-9-8
- Max Grav 4=119 (LC 1), 5=260 (LC 1), 6=106 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-6=-99/0, 3-4=-114/0, 1-2=-27/0, 2-3=-27/0
- BOT CHORD 5-6=0/27, 4-5=0/27
- WEBS 2-5=-250/0

NOTES

- 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.
- All bearings are assumed to be SP No.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.
- 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.
- 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-6=-10, 1-3=-190



January 28, 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/TPI 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

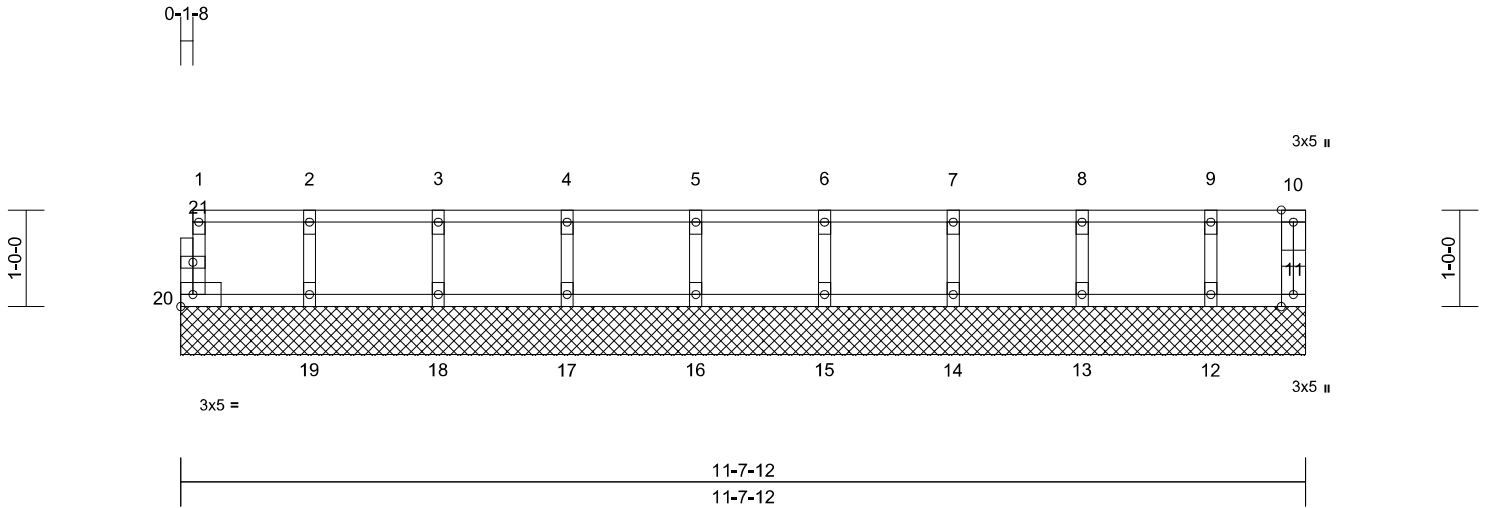
Job	Truss	Truss Type	Qty	Ply	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP
25010143-02	FW11	Floor Supported Gable	1	1	I71005166
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:54

Page: 1

ID:PPYewm2M9mj2Qh5a8GgRvQzrQWG-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f



Scale = 1:23.9

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	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	11	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR						Weight: 48 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)
11=11-7-12, 12=11-7-12,
13=11-7-12, 14=11-7-12,
15=11-7-12, 16=11-7-12,
17=11-7-12, 18=11-7-12,
19=11-7-12, 20=11-7-12
Max Grav 11=42 (LC 1), 12=121 (LC 1),
13=152 (LC 1), 14=145 (LC 1),
15=147 (LC 1), 16=147 (LC 1),
17=147 (LC 1), 18=147 (LC 1),
19=147 (LC 1), 20=53 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-50/0, 10-11=-35/0, 1-2=-8/0, 2-3=-8/0,
3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0,
7-8=-8/0, 8-9=-8/0, 9-10=-8/0
BOT CHORD 19-20=0/8, 18-19=0/8, 17-18=0/8, 16-17=0/8,
15-16=0/8, 14-15=0/8, 13-14=0/8, 12-13=0/8,
11-12=0/8
WEBS 2-19=-132/0, 3-18=-134/0, 4-17=-133/0,
5-16=-133/0, 6-15=-134/0, 7-14=-132/0,
8-13=-138/0, 9-12=-113/0

- 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.
 - All bearings are assumed to be SP No.2.



January 28, 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.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

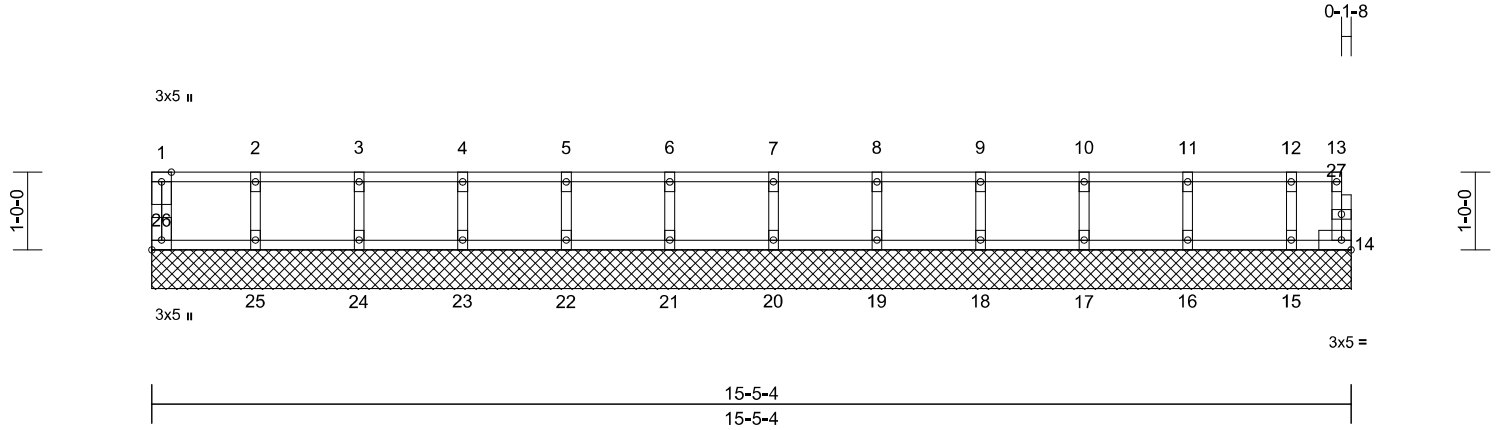
818 Soundside Road
Edenton, NC 27932

Job 25010143-02	Truss FW15A	Truss Type Floor Supported Gable	Qty 2	Ply 1	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP I71005167 Job Reference (optional)
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:54
ID:JAo8lB8sD?UvJOLN6kN4GzrQWC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCdoi7J4zJC?f

Page: 1



Scale = 1:29.7

Plate Offsets (X, Y): [26:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	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
TGDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 62 lb	FT = 20%F, 11%E

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

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

- REACTIONS** (size)
- 14=15-5-4, 15=15-5-4, 16=15-5-4, 17=15-5-4, 18=15-5-4, 19=15-5-4, 20=15-5-4, 21=15-5-4, 22=15-5-4, 23=15-5-4, 24=15-5-4, 25=15-5-4, 26=15-5-4
 - Max Grav 14=22 (LC 1), 15=111 (LC 1), 16=153 (LC 1), 17=145 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=146 (LC 1), 25=148 (LC 1), 26=58 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-26=-54/0, 13-14=-16/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0
 - BOT CHORD 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7, 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7
 - WEBS 2-25=-133/0, 3-24=-134/0, 4-23=-133/0, 5-22=-133/0, 6-21=-133/0, 7-20=-133/0, 8-19=-133/0, 9-18=-134/0, 10-17=-132/0, 11-16=-139/0, 12-15=-105/0

- 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.
- All bearings are assumed to be SP No.2.
- 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



January 28, 2025

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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/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)



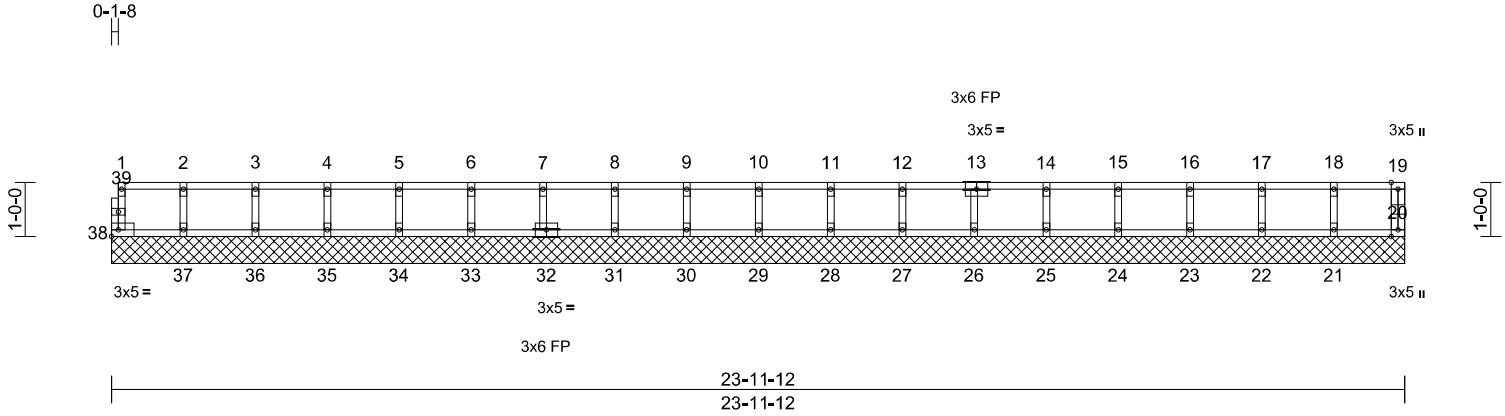
818 Soundside Road
Edenton, NC 27932

Job 25010143-02	Truss FW23	Truss Type Floor Supported Gable	Qty 1	Ply 1	Install 41 Magnolia Acres-Crawl-Greyson HC MNR SP I71005168 Job Reference (optional)
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Sun Jan 26 20:47:54
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Page: 1



Scale = 1:42.8

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	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 94 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)
20=23-11-12, 21=23-11-12,
22=23-11-12, 23=23-11-12,
24=23-11-12, 25=23-11-12,
26=23-11-12, 27=23-11-12,
28=23-11-12, 29=23-11-12,
30=23-11-12, 31=23-11-12,
32=23-11-12, 33=23-11-12,
34=23-11-12, 35=23-11-12,
36=23-11-12, 37=23-11-12,
38=23-11-12
Max Grav 20=59 (LC 1), 21=144 (LC 1),
22=148 (LC 1), 23=146 (LC 1),
24=148 (LC 1), 25=143 (LC 1),
26=147 (LC 1), 27=150 (LC 1),
28=146 (LC 1), 29=147 (LC 1),
30=147 (LC 1), 31=146 (LC 1),
32=147 (LC 1), 33=147 (LC 1),
34=147 (LC 1), 35=146 (LC 1),
36=148 (LC 1), 37=142 (LC 1),
38=57 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-38=-52/0, 19-20=-54/0, 1-2=-13/0,
2-3=-13/0, 3-4=-13/0, 4-5=-13/0, 5-6=-13/0,
6-7=-13/0, 7-8=-3/0, 8-9=-3/0, 9-10=-3/0,
10-11=-3/0, 11-12=-3/0, 12-14=-10/0,
14-15=-10/0, 15-16=-10/0, 16-17=-10/0,
17-18=-10/0, 18-19=-10/0

BOT CHORD 37-38=0/13, 36-37=0/13, 35-36=0/13,
34-35=0/13, 33-34=0/13, 31-33=0/13,
30-31=0/3, 29-30=0/3, 28-29=0/3, 27-28=0/3,
26-27=0/3, 25-26=0/10, 24-25=0/10,
23-24=0/10, 22-23=0/10, 21-22=0/10,
20-21=0/10
WEBS 2-37=-129/0, 3-36=-134/0, 4-35=-133/0,
5-34=-133/0, 6-33=-133/0, 7-32=-134/0,
8-31=-133/0, 9-30=-133/0, 10-29=-134/0,
11-28=-132/0, 12-27=-137/0, 13-26=-134/0,
14-25=-130/0, 15-24=-134/0, 16-23=-133/0,
17-22=-134/0, 18-21=-130/0

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 1-4-0 oc.
5) All bearings are assumed to be SP No.2.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0-00 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



January 28, 2025

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

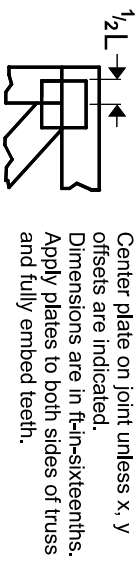
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



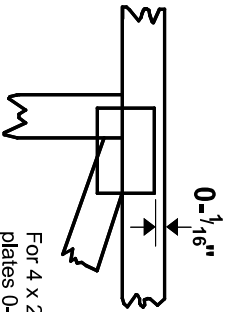
818 Soundside Road
Edenton, NC 27932

Symbols

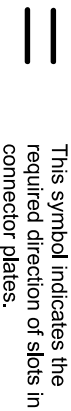
PLATE LOCATION AND ORIENTATION



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- $\frac{1}{16}$ \"/>



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

PLATE SIZE

4 X 4

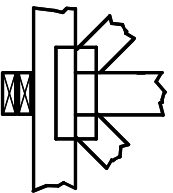
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

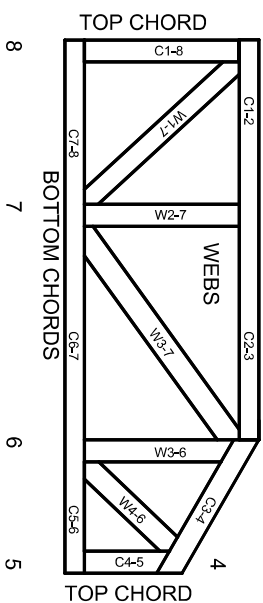
Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 Joint ID
3 typ.



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/TFP 1 section 6.3 These truss designs rely on Lumber values established by others.

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ENGINEERING BY
TRENCO
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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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.