

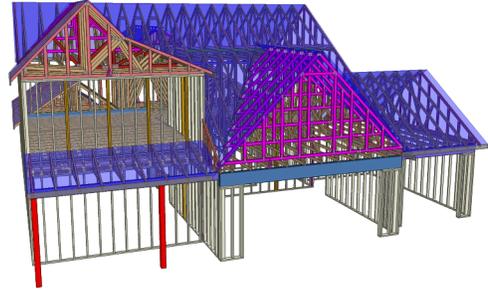


Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450

Builder: HH Hunt Homes Raleigh
Durham

Model: Maxwekk FA 3CG SP BR4 FE
GRH



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: _____

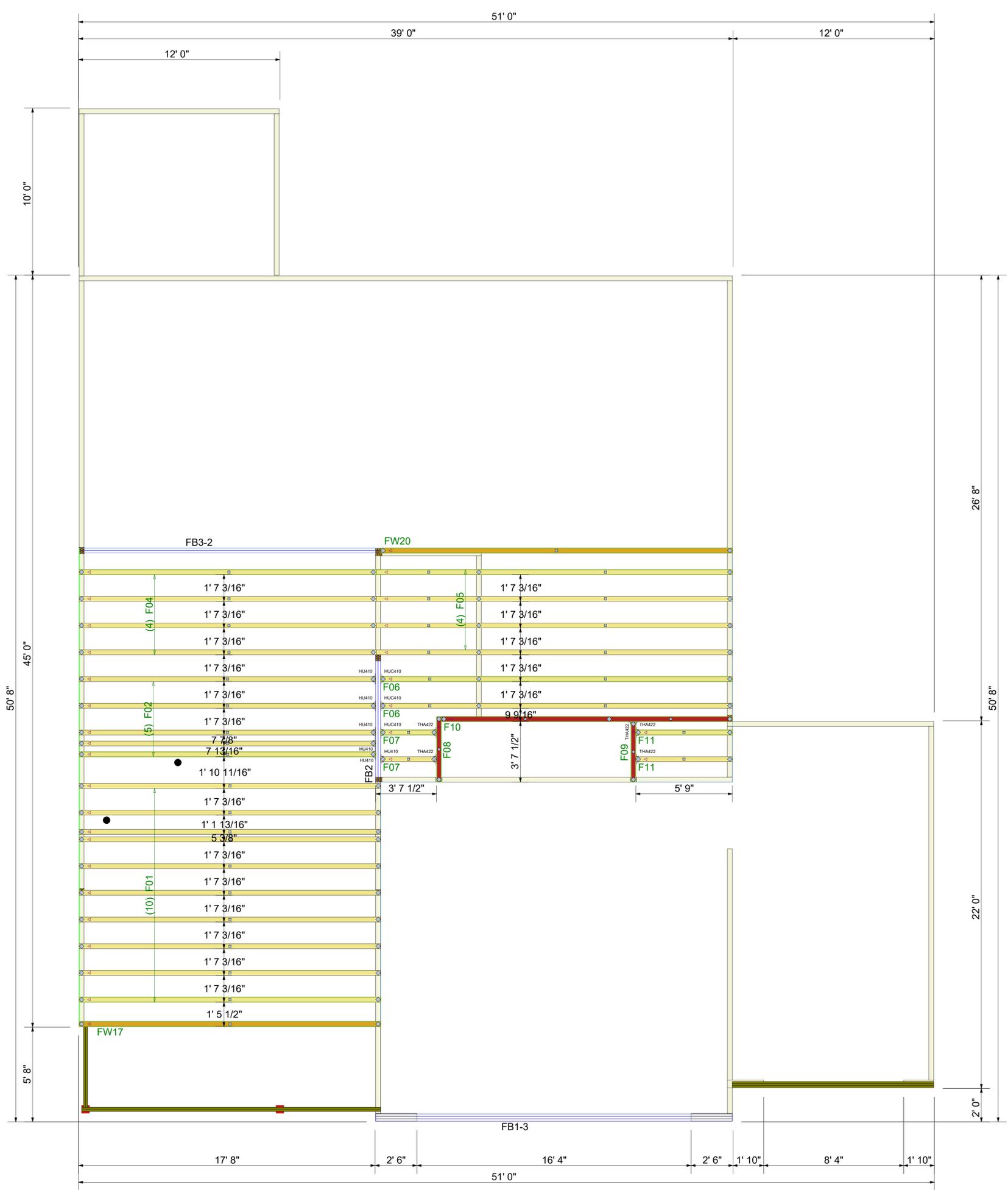
** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

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

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

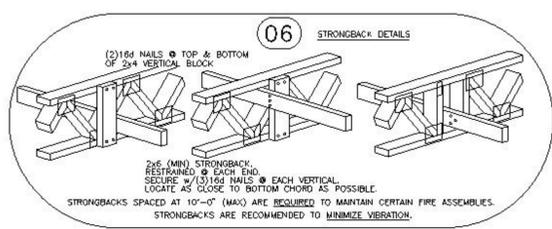
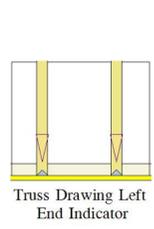
** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

General Notes:
 ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTRACTING 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.



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
FB2	8' 0"	2.1 RigidLam SP LVL 1-3/4 x 14	2	2	FF
FB1-3	22' 0"	2.1 RigidLam SP LVL 1-3/4 x 16	3	3	FF
FB3-2	18' 0"	2.1 RigidLam SP LVL 1-3/4 x 20	2	2	FF

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HU410	6
Simpson	HUC410	3
Simpson	THA422	5



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

Scale: NTS
 Date: 4/30/2025
 Designer: Thomas Politer
 Project Number: 25040237-B
 Sheet Number: 1/1

HH Hunt Homes Raleigh Durham
LOT #2 OAK MEADOWS
 Maxwell FA
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 tuss 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'Onifrio Drive: Madison, WI 53179

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

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 25040237-B

Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 FE GRH

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 (Chesapeake, VA).

Pages or sheets covered by this seal: I73126484 thru I73126495

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

North Carolina COA: C-0844



May 1, 2025

Gilbert, Eric

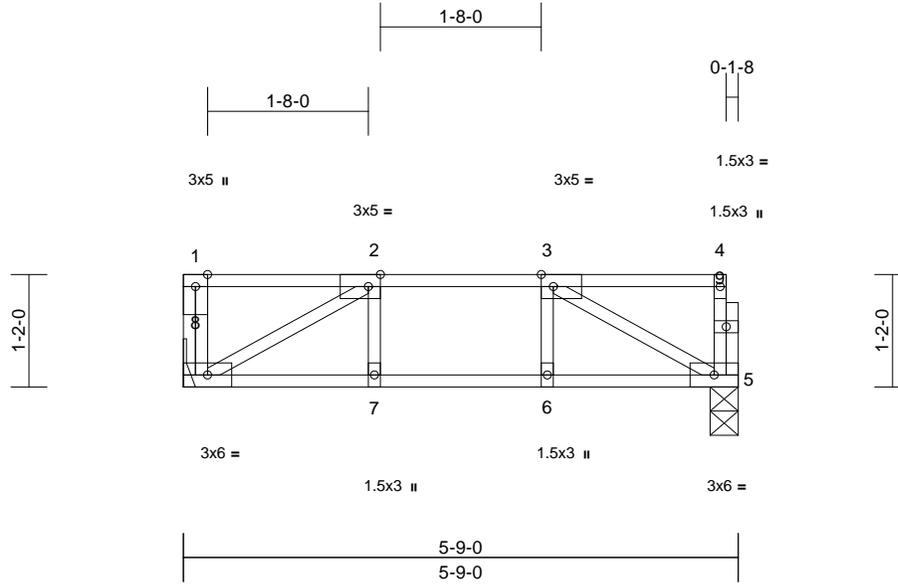
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 25040237-B	Truss F11	Truss Type Floor	Qty 2	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126484 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:38
ID:eVLNCRifGV?R0n3f909rcozhKNp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.8

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,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	0.17	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 30 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 5-9-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=0-3-8, 8= Mechanical
 Max Grav 5=237 (LC 1), 8=242 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-66/0, 4-5=-64/0, 1-2=0/0, 2-3=-310/0, 3-4=-4/0

BOT CHORD 7-8=0/310, 6-7=0/310, 5-6=0/310

WEBS 3-5=-351/0, 2-8=-355/0, 2-7=-7/37, 3-6=-6/38

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



May 1, 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)



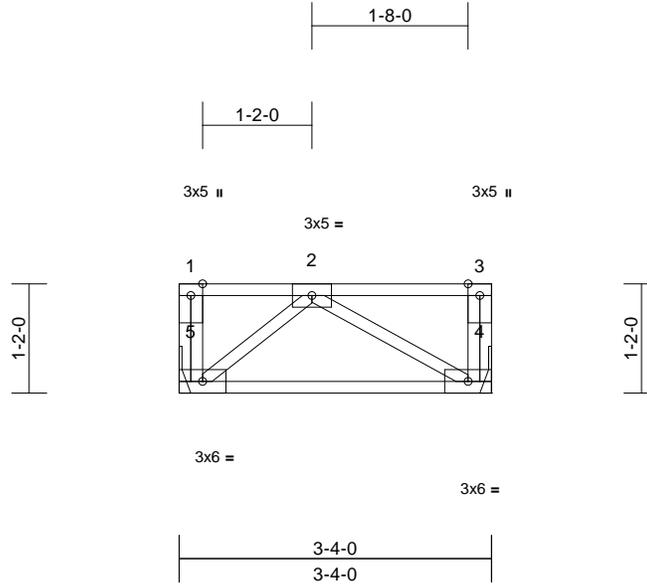
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126485
25040237-B	F07	Floor	2	1	Job Reference (optional)

Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:37
ID:adx3iWFou6ZjTPnnNOKVdzhKO2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.5

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 20 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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical
Max Grav 4=136 (LC 1), 5=136 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-33/0, 3-4=-58/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/112
WEBS 2-4=-130/0, 2-5=-144/0

NOTES

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

LOAD CASE(S) Standard



May 1, 2025

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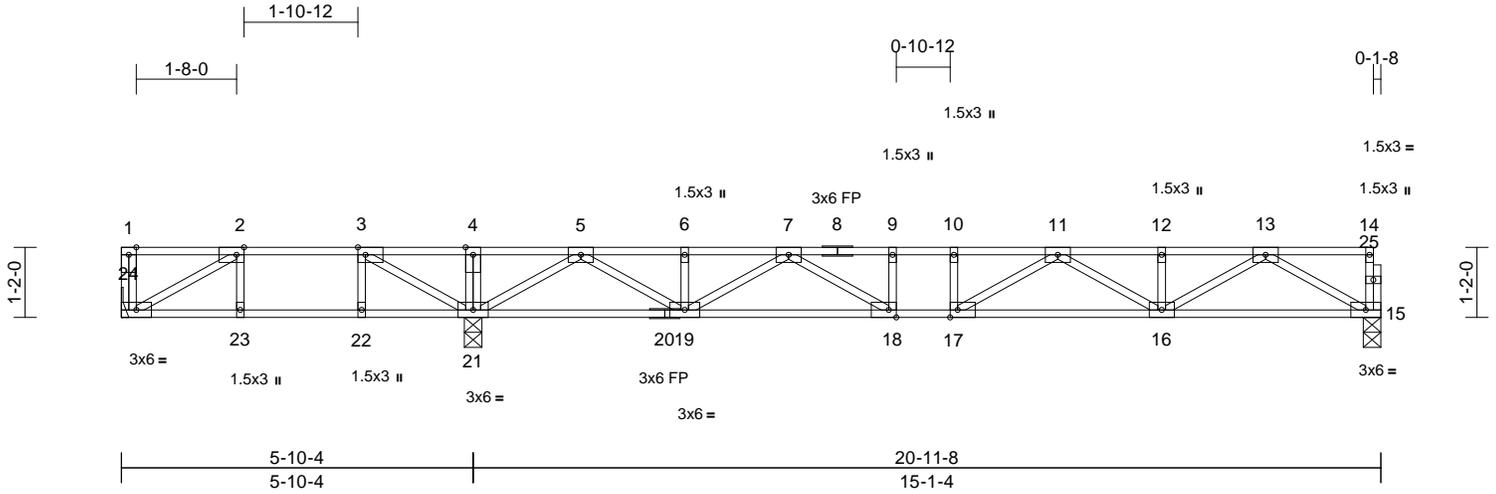
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss F06	Truss Type Floor	Qty 2	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126486 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:37
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Page: 1



Scale = 1:38.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,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	0.59	Vert(LL)	-0.13	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.18	16-17	>997	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 107 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 15=0-3-8, 21=0-3-8, 24=Mechanical
Max Uplift 24=36 (LC 4)
Max Grav 15=619 (LC 7), 21=1062 (LC 8), 24=219 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-89/0, 14-15=-56/0, 1-2=0/0, 2-3=-241/196, 3-4=0/660, 4-5=0/660, 5-6=-1338/0, 6-7=-1338/0, 7-9=-2112/0, 9-10=-2112/0, 10-11=-2112/0, 11-12=-1604/0, 12-13=-1604/0, 13-14=-3/0
BOT CHORD 23-24=-196/241, 22-23=-196/241, 21-22=-196/241, 19-21=0/571, 18-19=0/1838, 17-18=0/2112, 16-17=0/1988, 15-16=0/950

WEBS 4-21=-115/0, 3-21=-702/0, 2-24=-276/224, 2-23=-75/0, 3-22=0/108, 5-21=-1241/0, 13-15=-1095/0, 5-19=0/924, 13-16=0/763, 6-19=-137/0, 12-16=-128/0, 7-19=-606/0, 11-16=-448/0, 7-18=0/464, 11-17=-93/321, 9-18=-162/0, 10-17=-114/3

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 36 lb uplift at joint 24.
 - 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



May 1, 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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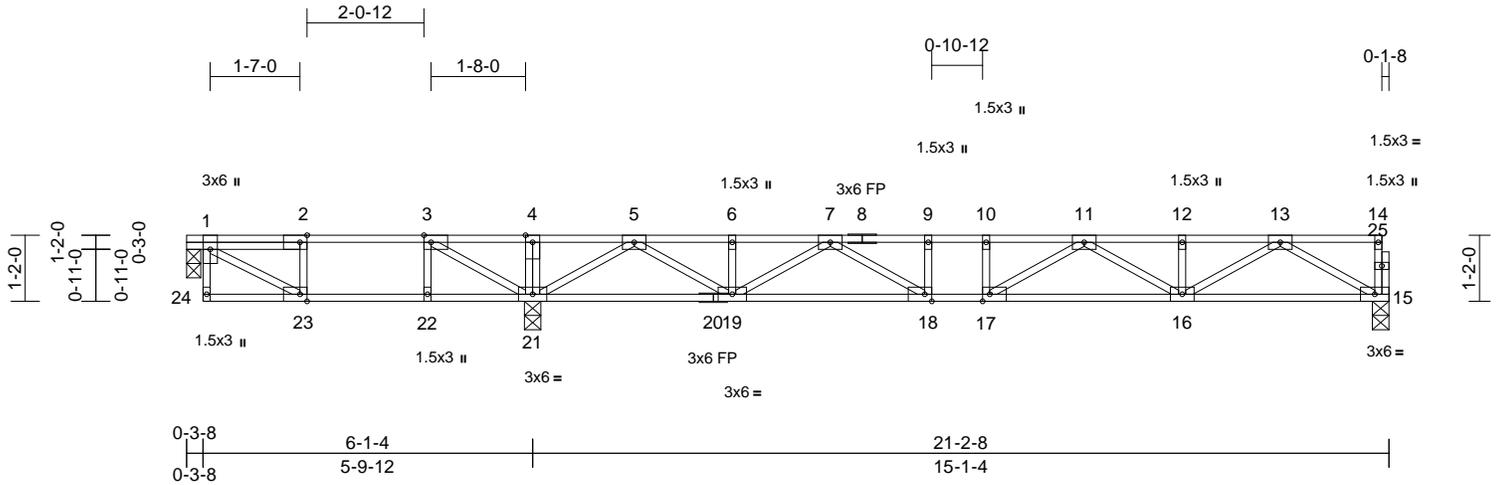


Job 25040237-B	Truss F05	Truss Type Floor	Qty 4	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126487 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:37
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Page: 1



Scale = 1:40.4

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [23:0-1-8,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	0.63	Vert(LL)	-0.13	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.18	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	-0.03	21	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 108 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: 22-23,21-22.

REACTIONS (size) 1=0-3-0, 15=0-3-8, 21=0-3-8
Max Uplift 1=-38 (LC 4)
Max Grav 1=216 (LC 3), 15=617 (LC 7), 21=1068 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=0/37, 14-15=-56/0, 1-2=-226/208, 2-3=-224/209, 3-4=0/663, 4-5=0/663, 5-6=-1313/0, 6-7=-1313/0, 7-9=-2096/0, 9-10=-2096/0, 10-11=-2096/0, 11-12=-1597/0, 12-13=-1597/0, 13-14=-3/0
BOT CHORD 23-24=0/0, 22-23=-209/224, 21-22=-209/224, 19-21=0/543, 18-19=0/1817, 17-18=0/2096, 16-17=0/1976, 15-16=0/947
WEBS 2-23=-133/64, 1-23=-241/259, 4-21=-111/0, 3-21=-713/0, 3-22=0/94, 5-21=-1244/0, 13-15=-1091/0, 5-19=0/923, 13-16=0/759, 6-19=-136/0, 12-16=-128/0, 7-19=-607/0, 11-16=-443/0, 7-18=0/469, 11-17=-98/316, 9-18=-164/0, 10-17=-112/5

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1.
 - 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 8) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



May 1, 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)



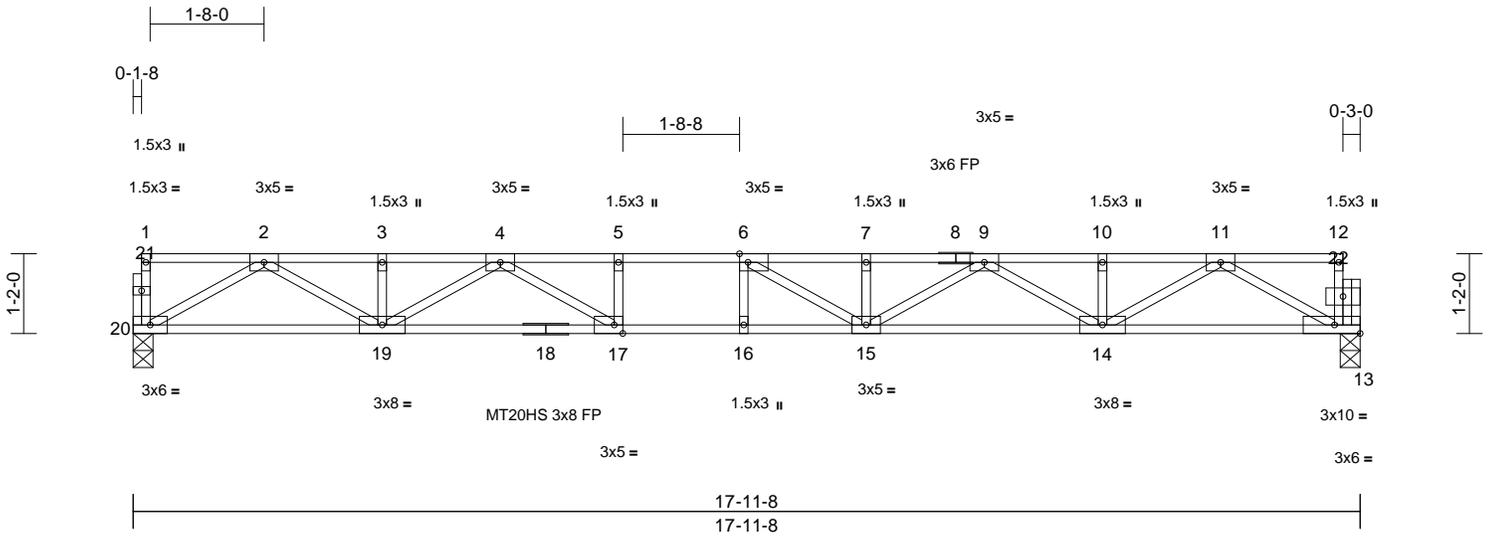
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss F04	Truss Type Floor	Qty 4	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126488 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:37
ID:wE5SGyY3eJ1w6AIP5ayaGmzhKPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCdoi7J4zJC7f

Page: 1



Scale = 1:33.6

Plate Offsets (X, Y): [6:0-1-8,Edge], [17:0-1-8,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	0.65	Vert(LL)	-0.29	15-16	>741	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.39	15-16	>541	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 91 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 18-13:2x4 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 13=0-3-8, 20=0-3-8
Max Grav 13=943 (LC 1), 20=772 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-57/0, 12-13=-267/18, 1-2=-3/0, 2-3=-2115/0, 3-4=-2115/0, 4-5=-3226/0, 5-6=-3226/0, 6-7=-3187/0, 7-9=-3187/0, 9-10=-2158/0, 10-11=-2158/0, 11-12=-32/2
BOT CHORD 19-20=0/1208, 17-19=0/2756, 16-17=0/3226, 15-16=0/3226, 14-15=0/2783, 13-14=0/1264
WEBS 11-13=-1421/0, 2-20=-1393/0, 11-14=0/1047, 2-19=0/1060, 10-14=-136/0, 3-19=-142/0, 9-14=-733/0, 4-19=-748/0, 9-15=0/475, 4-17=0/713, 7-15=-210/11, 5-17=-242/0, 6-15=-417/250, 6-16=-128/61

6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 208 lb down and 75 lb up at 17-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 13-20=-8, 1-12=-80
Concentrated Loads (lb)
Vert: 12=-179

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 1.5x3 MT20 unless otherwise indicated.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



May 1, 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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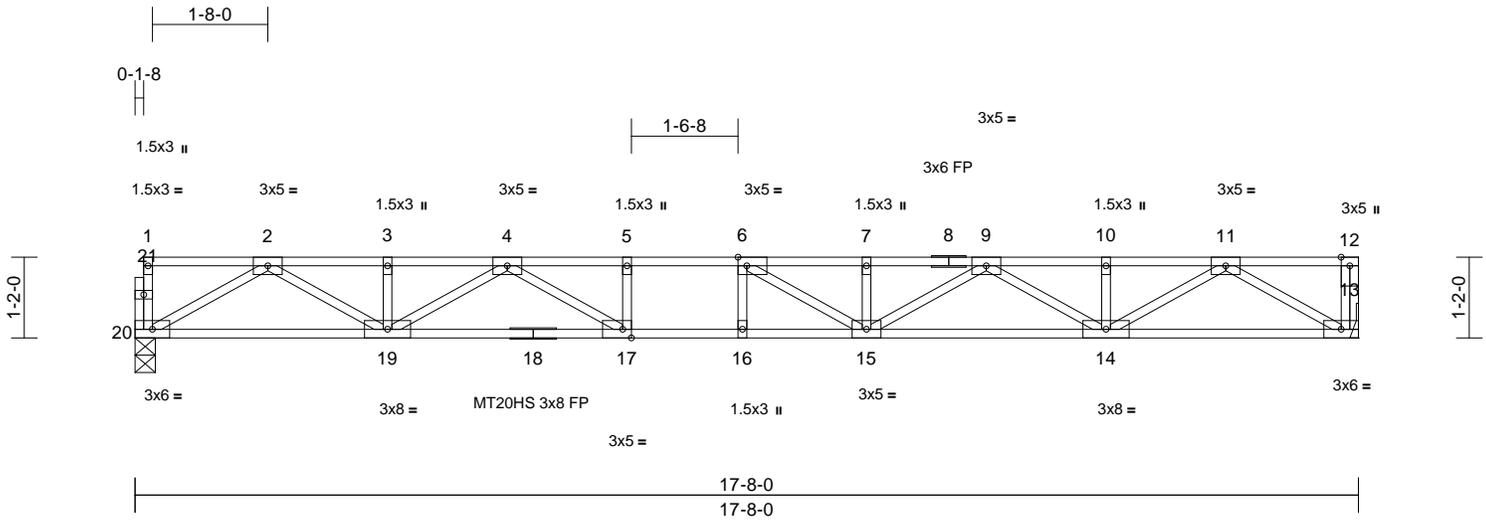
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss F02	Truss Type Floor	Qty 5	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126489 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:37
ID:1BKWsmluasOv5yBMMf4evKzhKpD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.1

Plate Offsets (X, Y): [6:0-1-8,Edge], [17:0-1-8,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	Vert(LL)	-0.27	15-16	>788	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.36	15-16	>575	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH						Weight: 90 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* 18-13:2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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

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) 13= Mechanical, 20=0-3-8
 Max Grav 13=766 (LC 1), 20=761 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-20=-57/0, 12-13=-59/0, 1-2=-3/0, 2-3=-2078/0, 3-4=-2078/0, 4-5=-3139/0, 5-6=-3139/0, 6-7=-3097/0, 7-9=-3097/0, 9-10=-2079/0, 10-11=-2079/0, 11-12=0/0
 BOT CHORD 19-20=0/1189, 17-19=0/2699, 16-17=0/3139, 15-16=0/3139, 14-15=0/2699, 13-14=0/1193
 WEBS 11-13=-1380/0, 2-20=-1371/0, 11-14=0/1034, 2-19=0/1038, 10-14=-134/0, 3-19=-140/0, 9-14=-723/0, 4-19=-726/0, 9-15=0/464, 4-17=0/672, 7-15=-204/7, 5-17=-225/0, 6-15=-401/239, 6-16=-123/61

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 3x5 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 1, 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)



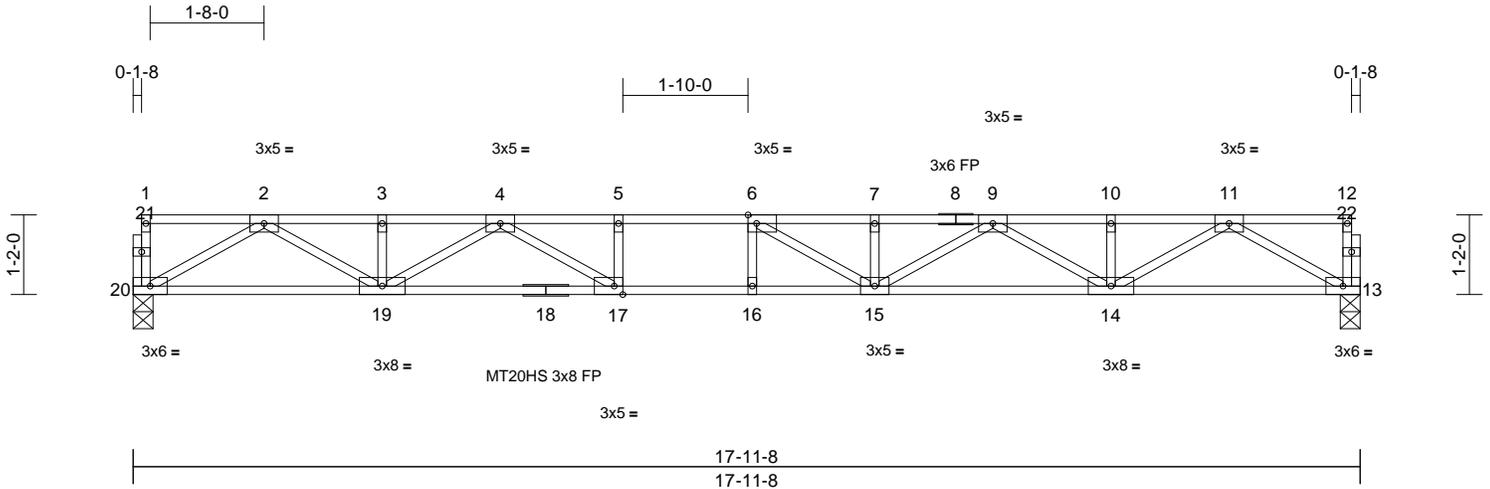
818 Soundside Road
 Edenton, NC 27932

Job 25040237-B	Truss F01	Truss Type Floor	Qty 10	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126490 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:36
ID:K?CJCzyxZ_kModAHU5JJezhKQ2-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:33.6

Plate Offsets (X, Y): [6:0-1-8,Edge], [17:0-1-8,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	Vert(LL)	-0.29	15-16	>732	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.40	15-16	>535	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH						Weight: 90 lb	FT = 20%F, 11%E

LUMBER
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* 18-13:2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

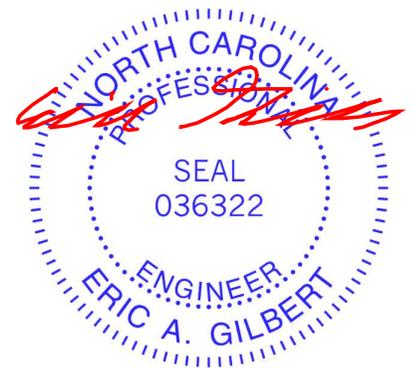
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 13=0-3-8, 20=0-3-8
 Max Grav 13=774 (LC 1), 20=774 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-20=-57/0, 12-13=-57/0, 1-2=-3/0, 2-3=-2120/0, 3-4=-2120/0, 4-5=-3240/0, 5-6=-3240/0, 6-7=-3183/0, 7-9=-3183/0, 9-10=-2123/0, 10-11=-2123/0, 11-12=-3/0
 BOT CHORD 19-20=0/1210, 17-19=0/2763, 16-17=0/3240, 15-16=0/3240, 14-15=0/2763, 13-14=0/1214
 WEBS 11-13=-1400/0, 2-20=-1396/0, 11-14=0/1061, 2-19=0/1063, 10-14=-136/0, 3-19=-143/0, 9-14=-748/0, 4-19=-750/0, 9-15=0/490, 4-17=0/725, 7-15=-211/15, 5-17=-249/0, 6-15=-438/236, 6-16=-128/64

LOAD CASE(S) Standard

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



May 1, 2025

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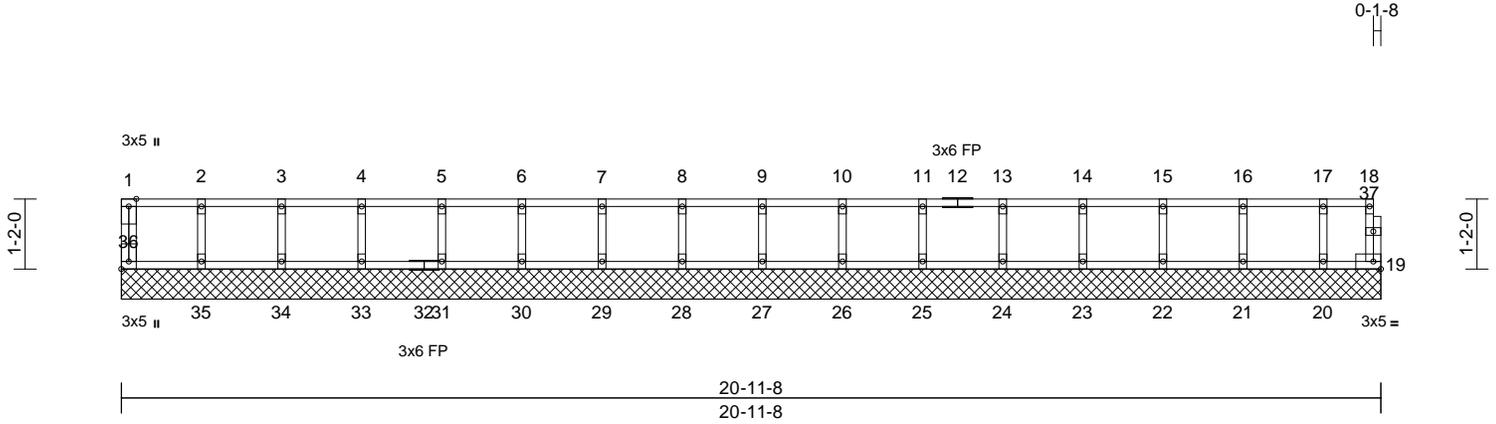
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss FW20	Truss Type Floor Supported Gable	Qty 1	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126491 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:38
ID:hq8zJEHXY3taBjBkW02SiOzsOdH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC7f

Page: 1



Scale = 1:38.2

Plate Offsets (X, Y): [36: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	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	19	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR						Weight: 88 lb	FT = 20%F, 11%E

LUMBER	WEBS
TOP CHORD 2x4 SP No.2(flat)	2-35=-132/0, 3-34=-134/0, 4-33=-133/0,
BOT CHORD 2x4 SP No.2(flat)	5-31=-133/0, 6-30=-133/0, 7-29=-133/0,
WEBS 2x4 SP No.3(flat)	8-28=-133/0, 9-27=-133/0, 10-26=-133/0,
OTHERS 2x4 SP No.3(flat)	11-25=-133/0, 13-24=-133/0, 14-23=-134/0,
	15-22=-132/0, 16-21=-138/0, 17-20=-112/0

BRACING	NOTES
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) All plates are 1.5x3 MT20 unless otherwise indicated.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	2) Gable requires continuous bottom chord bearing.
	3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
	4) Gable studs spaced at 1-4-0 oc.
	5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
	6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
	7) CAUTION, Do not erect truss backwards.

REACTIONS (size)	LOAD CASE(S) Standard
19=20-11-8, 20=20-11-8,	
21=20-11-8, 22=20-11-8,	
23=20-11-8, 24=20-11-8,	
25=20-11-8, 26=20-11-8,	
27=20-11-8, 28=20-11-8,	
29=20-11-8, 30=20-11-8,	
31=20-11-8, 33=20-11-8,	
34=20-11-8, 35=20-11-8,	
36=20-11-8	
Max Grav 19=34 (LC 1), 20=120 (LC 1),	
21=152 (LC 1), 22=145 (LC 1),	
23=147 (LC 1), 24=147 (LC 1),	
25=147 (LC 1), 26=147 (LC 1),	
27=147 (LC 1), 28=147 (LC 1),	
29=147 (LC 1), 30=147 (LC 1),	
31=147 (LC 1), 33=147 (LC 1),	
34=147 (LC 1), 35=147 (LC 1),	
36=59 (LC 1)	

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-36=-55/0, 18-19=-29/0, 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,
11-13=-7/0, 13-14=-7/0, 14-15=-7/0,
15-16=-7/0, 16-17=-7/0, 17-18=-7/0
BOT CHORD 35-36=0/7, 34-35=0/7, 33-34=0/7, 31-33=0/7,
30-31=0/7, 29-30=0/7, 28-29=0/7, 27-28=0/7,
26-27=0/7, 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



May 1, 2025

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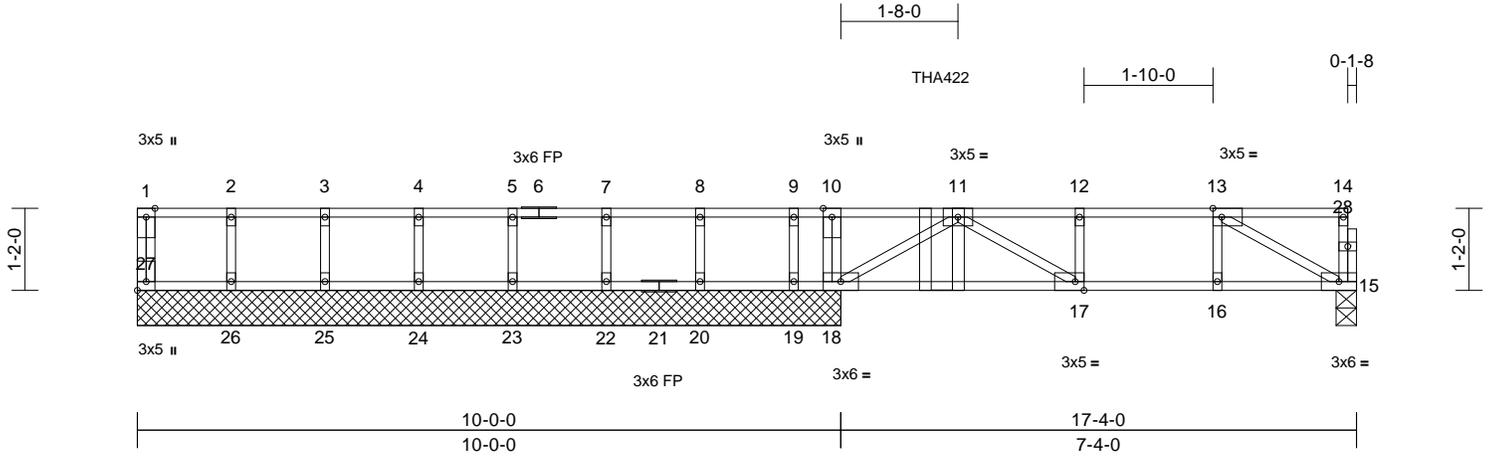
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss F10	Truss Type Floor Girder	Qty 1	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126492 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:38
ID:yhCk2FFWHIVYSX6tZNIKAXzsNhw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.6

Plate Offsets (X, Y): [13:0-1-8,Edge], [17:0-1-8,Edge], [27: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	0.81	Vert(LL)	-0.11	17-18	>815	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.15	17-18	>607	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 80 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)
- 15=0-3-8, 18=10-0-0, 19=10-0-0, 20=10-0-0, 22=10-0-0, 23=10-0-0, 24=10-0-0, 25=10-0-0, 26=10-0-0, 27=10-0-0
 - Max Uplift 19=219 (LC 4)
 - Max Grav 15=472 (LC 7), 18=971 (LC 23), 19=34 (LC 3), 20=175 (LC 23), 22=144 (LC 3), 23=148 (LC 23), 24=147 (LC 3), 25=145 (LC 23), 26=156 (LC 3), 27=52 (LC 23)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-27=-47/0, 14-15=-60/46, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0, 10-11=0/0, 11-12=-856/0, 12-13=-856/0, 13-14=-4/3
 - BOT CHORD 26-27=0/0, 25-26=0/0, 24-25=0/0, 23-24=0/0, 22-23=0/0, 20-22=0/0, 19-20=0/0, 18-19=0/0, 17-18=0/934, 16-17=0/856, 15-16=0/856
 - WEBS 10-18=-237/0, 11-18=-1080/0, 13-15=-980/0, 11-17=-149/174, 12-17=-85/3, 13-16=0/156, 2-26=-142/0, 3-25=-132/0, 4-24=-134/0, 5-23=-134/0, 7-22=-132/0, 8-20=-147/0, 9-19=-79/97

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 11-5-4 from the left end to connect truss (es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-27=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 11=-293 (F)



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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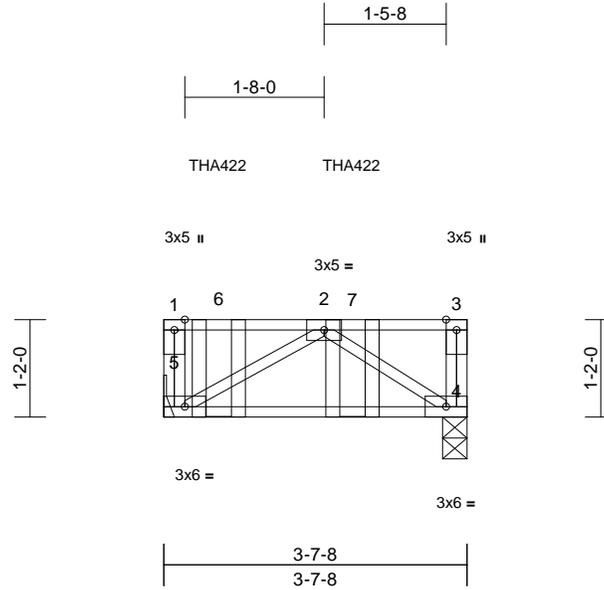
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss F09	Truss Type Floor Girder	Qty 1	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 I73126493 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:38
ID: jy9L9A8tPXNqt9w8X_2DJdzsNi3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:27.4

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	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 22 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 3-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=0-3-8, 5= Mechanical
Max Grav 4=315 (LC 1), 5=393 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-172/0, 3-4=-68/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/351
WEBS 2-5=-406/0, 2-4=-420/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-7-3 oc max. starting at 0-7-14 from the left end to 2-3-1 to connect truss(es) to back face of top chord.
- 5) Fill all nail holes where hanger is in contact with lumber.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 6=-175 (B), 7=-162 (B)



May 1, 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)



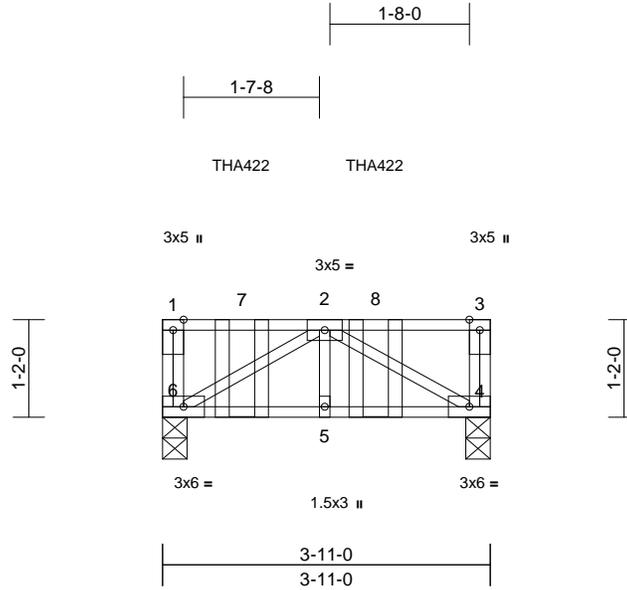
818 Soundside Road
Edenton, NC 27932

Job 25040237-B	Truss F08	Truss Type Floor Girder	Qty 1	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 173126494 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:37
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Page: 1



Scale = 1:27.4

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	0.34	Vert(LL)	0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	0.00	5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 24 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 3-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=0-3-8, 6=0-3-8
Max Grav 4=251 (LC 1), 6=264 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-89/0, 3-4=-80/0, 1-2=0/0, 2-3=0/0
BOT CHORD 5-6=0/289, 4-5=0/289
WEBS 2-4=-332/0, 2-5=0/20, 2-6=-334/0

NOTES

- 1) 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.
- 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.
- 3) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-7-3 oc max. starting at 0-11-6 from the left end to 2-6-9 to connect truss(es) to front face of top chord.
- 4) Fill all nail holes where hanger is in contact with lumber.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 7=-56 (F), 8=-56 (F)



May 1, 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

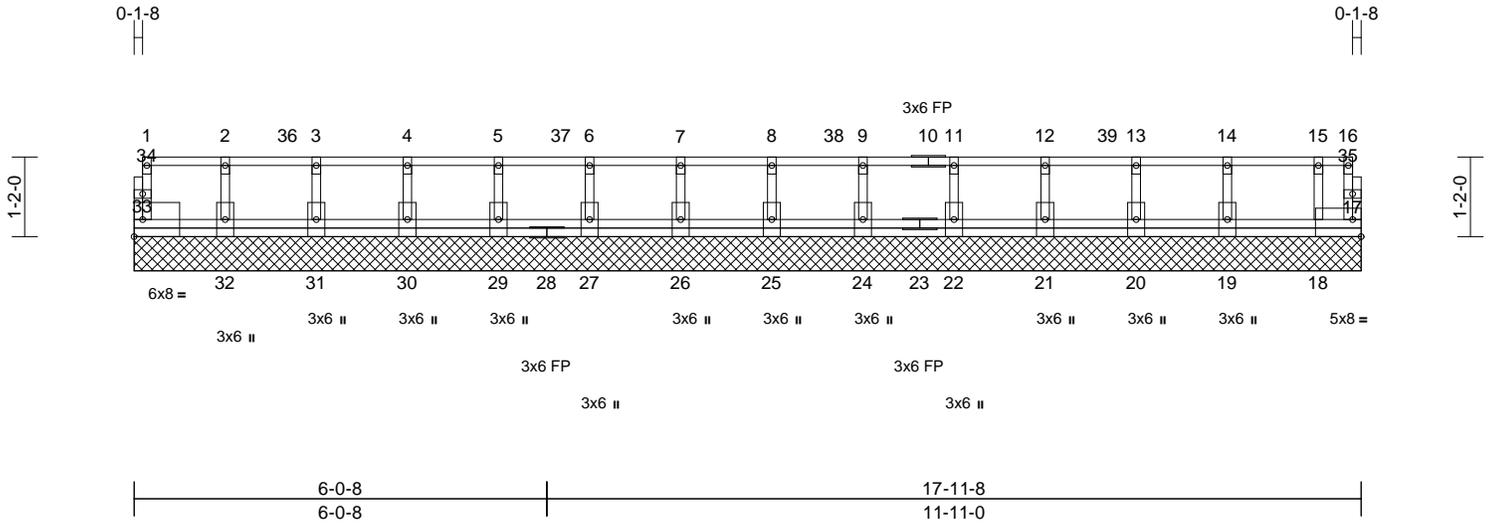
Job 25040237-B	Truss FW17	Truss Type Floor Supported Gable	Qty 1	Ply 1	Install 2 Oak Meadow-2nd Floor-Maxwell FA 3CG SP BR4 173126495 Job Reference (optional)
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Carter Components (Chesapeake), Chesapeake, VA - 23323,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 07:44:38

Page: 1

ID:Djiun85ZAeJ4j0pcxalAwXzsOcE-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f



Scale = 1:33.6

Plate Offsets (X, Y): [18:Edge,0-3-0]

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	0.32	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	0.07	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 99 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=17-11-8, 18=17-11-8, 19=17-11-8, 20=17-11-8, 21=17-11-8, 22=17-11-8, 24=17-11-8, 25=17-11-8, 26=17-11-8, 27=17-11-8, 29=17-11-8, 30=17-11-8, 31=17-11-8, 32=17-11-8, 33=17-11-8
Max Uplift 17=-16 (LC 3), 19=-57 (LC 8), 20=-54 (LC 8), 21=-13 (LC 8), 22=-50 (LC 8), 24=-55 (LC 8), 25=-12 (LC 8), 26=-51 (LC 8), 27=-55 (LC 8), 29=-12 (LC 8), 30=-50 (LC 8), 31=-56 (LC 8), 32=-10 (LC 8), 33=-6 (LC 3)
Max Grav 17=9 (LC 8), 18=114 (LC 1), 19=310 (LC 6), 20=293 (LC 6), 21=204 (LC 6), 22=288 (LC 6), 24=299 (LC 6), 25=202 (LC 6), 26=288 (LC 6), 27=299 (LC 6), 29=202 (LC 6), 30=288 (LC 6), 31=300 (LC 6), 32=199 (LC 6), 33=45 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-33=-43/12, 16-17=-5/12, 1-2=-4/4, 2-3=-4/4, 3-4=-4/4, 4-5=-4/4, 5-6=-4/4, 6-7=-4/4, 7-8=-4/4, 8-9=-4/4, 9-11=-4/4, 11-12=-4/4, 12-13=-4/4, 13-14=-4/4, 14-15=-4/4, 15-16=-4/4
BOT CHORD 32-33=-4/4, 31-32=-4/4, 30-31=-4/4, 29-30=-4/4, 27-29=-4/4, 26-27=-4/4, 25-26=-4/4, 24-25=-4/4, 22-24=-4/4, 21-22=-4/4, 20-21=-4/4, 19-20=-4/4, 18-19=-4/4, 17-18=-4/4
WEBS 2-32=-184/19, 3-31=-287/64, 4-30=-275/58, 5-29=-189/20, 6-27=-286/63, 7-26=-275/58, 8-25=-189/20, 9-24=-286/63, 11-22=-275/58, 12-21=-190/21, 13-20=-280/61, 14-19=-296/65, 15-18=-112/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 32, 31, 30, 29, 27, 26, 25, 24, 22, 21, 20, 19, and 17. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

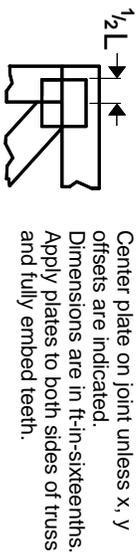
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 258 lb down and 95 lb up at 2-3-0, 258 lb down and 95 lb up at 6-3-0, and 258 lb down and 95 lb up at 10-3-0, and 258 lb down and 95 lb up at 14-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 17-33=-10, 1-16=-100
Concentrated Loads (lb)
Vert: 4=-83, 7=-83, 11=-83, 14=-83, 36=-83, 37=-83, 38=-83, 39=-83



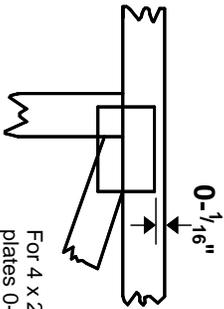
May 1, 2025

Symbols

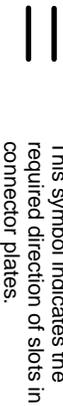
PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

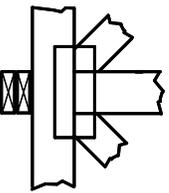
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

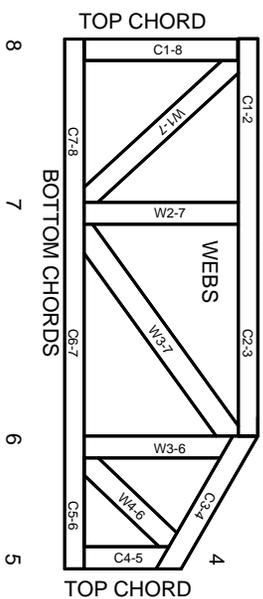
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 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/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

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

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.