

RE: 2412-1229-A - The Farm at Neills Creek Lot 00.0063

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: DRB Raleigh Project Name: The Farm at Neills Creek Lot 00.0063

Lot/Block: Subdivision:

Model:

Address: 449 Winding Creek Dr

City: Lillington State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014

Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-16

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Wind Speed: 115 mph

Floor Load: N/A psf

Roof Load: 50.0 psf

Exposure Category: B

Mean Roof Height (feet): 25

No.	Seal#	Truss Name	Date
1	I70314508	2F10	12/20/24
2		2F7	12/20/24
3	I70314510	FGE3	12/20/24
4	I70314511	2F16	12/20/24
5	I70314512	2F15	12/20/24
6	I70314513	F3	12/20/24
7	I70314514	F4	12/20/24
8	I70314515	F1	12/20/24
9	I70314516	F2	12/20/24
10	I70314517	F5	12/20/24
11		FGE1	12/20/24
12	I70314519	2F1	12/20/24
13	I70314520	2F6	12/20/24
14	I70314521	FGE2	12/20/24
	I70314522	2F11	12/20/24
16	I70314523	2F14	12/20/24
17	I70314524	2F13	12/20/24
18	I70314525	2F12	12/20/24
19	I70314526	2F8	12/20/24
20		2F9	12/20/24

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Structural, LLC.

Truss Design Engineer's Name: Gilbert, Eric

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

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.



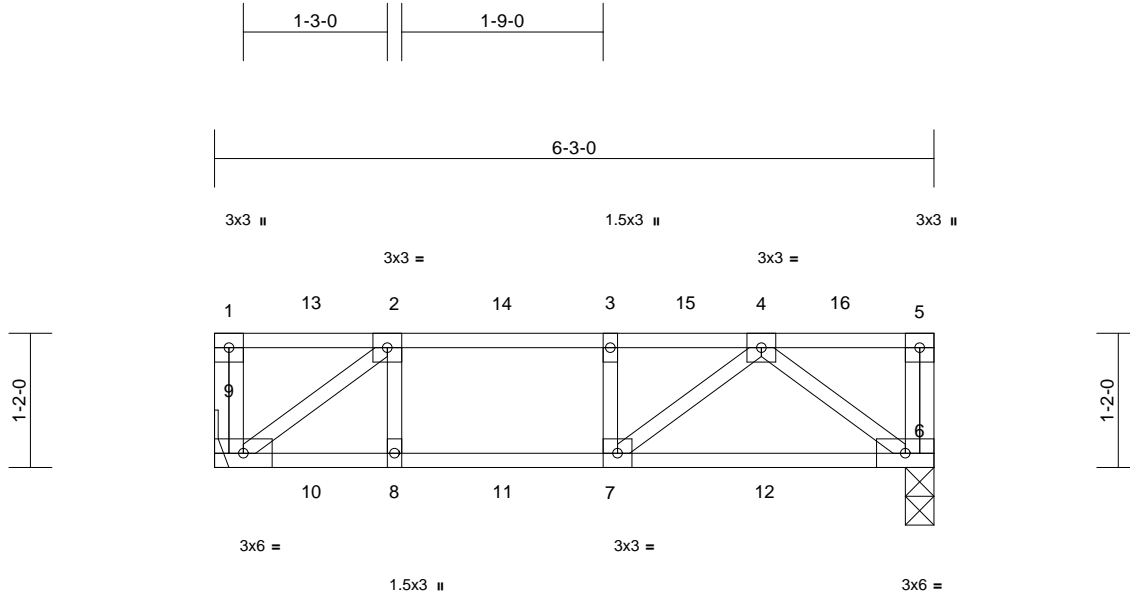
December 20, 2024

Job 2412-1229-A	Truss 2F10	Truss Type Floor	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314508
--------------------	---------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:18
ID:zE9wTHM7Bf2?i3YQIFFHbjy8JTP-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20

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	0.42	Vert(LL)	-0.13	6-7	>555	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.14	6-7	>503	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%F, 12%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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=0-3-0, 9= Mechanical
Max Grav 6=325 (LC 12), 9=325 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-9=-256/37, 5-6=-261/19, 1-2=0/0,
2-3=-368/0, 3-4=-368/0, 4-5=0/0
BOT CHORD 8-9=0/368, 7-8=0/368, 6-7=0/322
WEBS 4-6=-404/0, 2-9=-455/0, 4-7=-119/226,
2-8=-22/230, 3-7=-144/116

NOTES

- Unbalanced floor live loads have been considered for this design.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



December 20, 2024

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

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



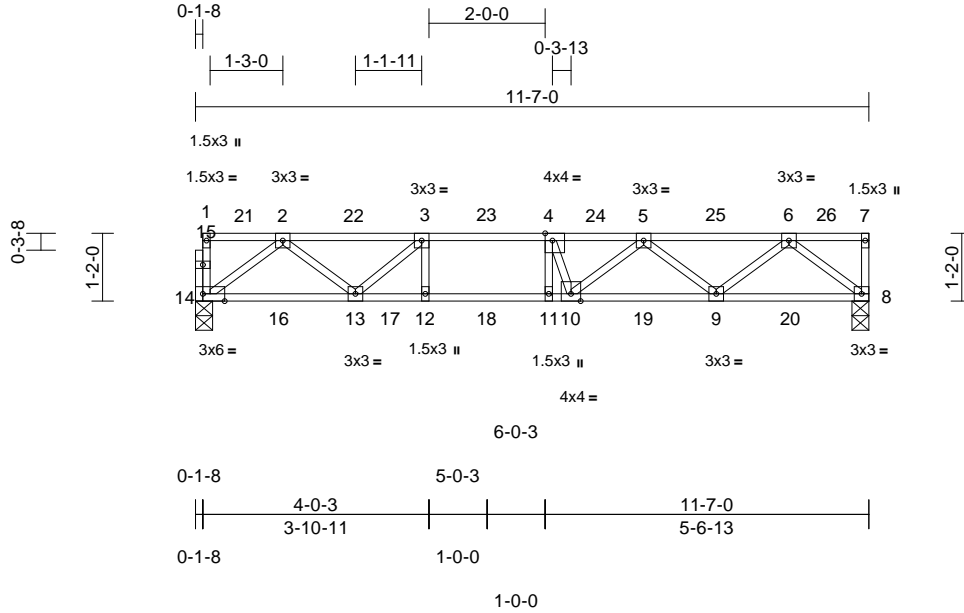
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss 2F7	Truss Type Floor	Qty 4	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314509
--------------------	--------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:17
ID:nOWBkkRunVo9R_0a3VLhr_y8JTJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Plate Offsets (X, Y): [4:0-1-8,Edge], [14:0-4-8,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	0.64	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.12	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 12%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)

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

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.

LOAD CASE(S) Standard

REACTIONS

(size) 8=0-3-8, 14=0-3-8
 Max Grav 8=501 (LC 1), 14=496 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-14=-261/45, 7-8=-259/37, 1-2=-16/3, 2-3=-951/0, 3-4=-1314/0, 4-5=-1335/0, 5-6=-930/0, 6-7=0/0
 BOT CHORD 13-14=0/594, 12-13=0/1314, 11-12=0/1314, 10-11=0/1314, 9-10=0/1250, 8-9=0/584
 WEBS 3-12=-88/222, 4-11=-474/207, 2-14=-743/0, 2-13=0/464, 3-13=-491/74, 6-8=-745/0, 6-9=0/451, 5-9=-417/0, 5-10=-142/250, 4-10=-268/553

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearings are assumed to be: Joint 14 SP No.3, Joint 8 SP No.2.
- 3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



December 20, 2024

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

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



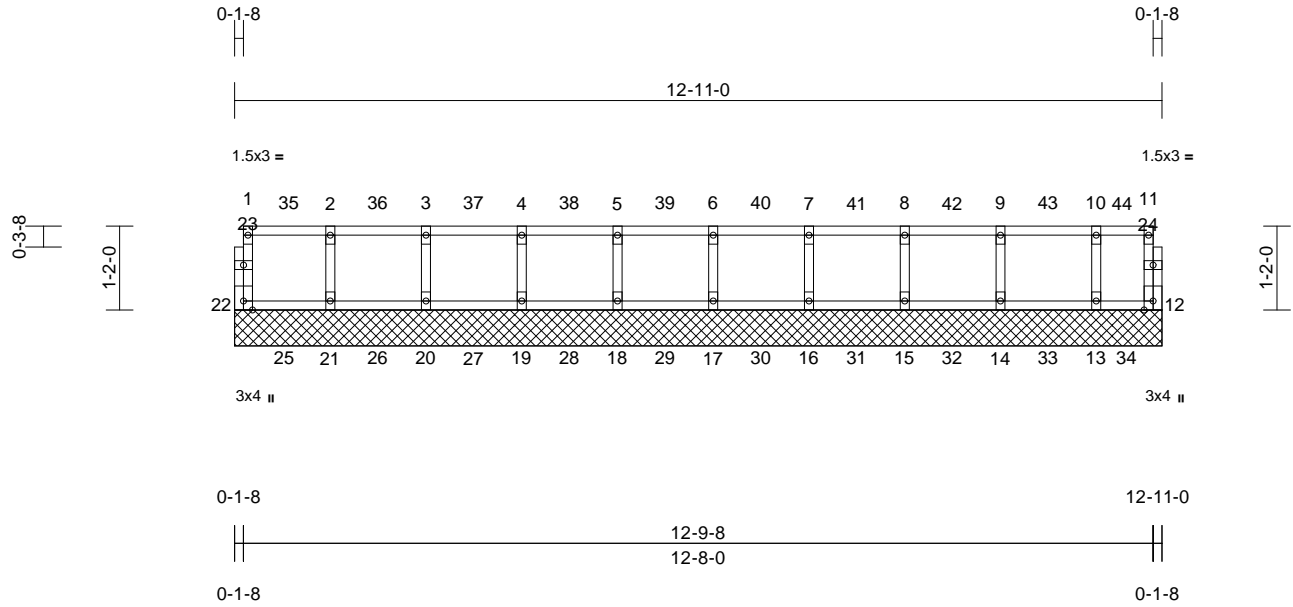
818 Soundside Road
 Edenton, NC 27932

Job 2412-1229-A	Truss FGE3	Truss Type Floor Supported Gable	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314510
--------------------	---------------	-------------------------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:22
ID:Yw?DP3Xvuyup0OCd7XBVZ9gy8JTB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 12%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)
12=12-11-0, 13=12-11-0,
14=12-11-0, 15=12-11-0,
16=12-11-0, 17=12-11-0,
18=12-11-0, 19=12-11-0,
20=12-11-0, 21=12-11-0,
22=12-11-0
Max Uplift 12=-37 (LC 12), 13=-18 (LC 4),
15=-1 (LC 31), 22=-15 (LC 5)
Max Grav 12=261 (LC 46), 13=279 (LC 45),
14=286 (LC 44), 15=285 (LC 43),
16=285 (LC 42), 17=285 (LC 41),
18=285 (LC 40), 19=285 (LC 39),
20=285 (LC 38), 21=285 (LC 37),
22=265 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-254/23, 11-12=-244/46, 1-2=-27/5,
2-3=-27/5, 3-4=-27/5, 4-5=-27/5, 5-6=-27/5,
6-7=-27/5, 7-8=-27/5, 8-9=-27/5, 9-10=-27/5,
10-11=-27/5
BOT CHORD 21-22=-5/27, 20-21=-5/27, 19-20=-5/27,
18-19=-5/27, 17-18=-5/27, 16-17=-5/27,
15-16=-5/27, 14-15=-5/27, 13-14=-5/27,
12-13=-5/27
WEBS 2-21=-272/12, 3-20=-272/10, 4-19=-272/10,
5-18=-272/10, 6-17=-272/10, 7-16=-272/10,
8-15=-272/10, 9-14=-273/10, 10-13=-265/22

NOTES
1) 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.3.
- Bearing at joint(s) 22, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 22 and 37 lb uplift at joint 12.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21, 20, 19, 18, 17, 16, 15, and 13. This connection is for uplift only and does not consider lateral forces.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



December 20, 2024

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

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



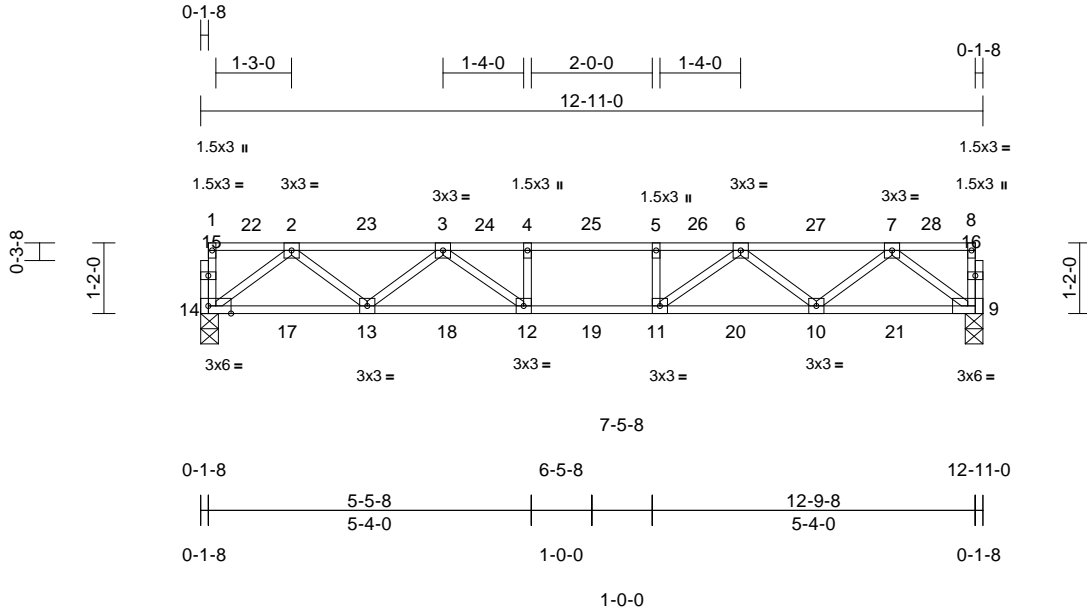
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss 2F16	Truss Type Floor	Qty 2	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314511
--------------------	---------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:20
ID:r?ORJePdFtYRBgsCx4JdMzY8JTL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Plate Offsets (X, Y): [14:0-4-8,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	0.58	Vert(LL)	-0.16	12-13	>969	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.18	12-13	>829	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 12%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 2-2-0 oc bracing.

REACTIONS (size) 9=0-3-8, 14=0-3-8

Max Grav 9=552 (LC 1), 14=552 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-14=-259/36, 8-9=-259/36, 1-2=-16/2, 2-3=-1085/0, 3-4=-1661/0, 4-5=-1661/0, 5-6=-1661/0, 6-7=-1085/0, 7-8=-16/2
- BOT CHORD 13-14=0/682, 12-13=0/1459, 11-12=0/1661, 10-11=0/1459, 9-10=0/682
- WEBS 4-12=-193/101, 5-11=-193/101, 2-14=-854/0, 2-13=0/524, 3-13=-487/0, 3-12=-153/415, 7-9=-854/0, 7-10=0/524, 6-10=-487/0, 6-11=-153/415

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.3.
- Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.



December 20,2024

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

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



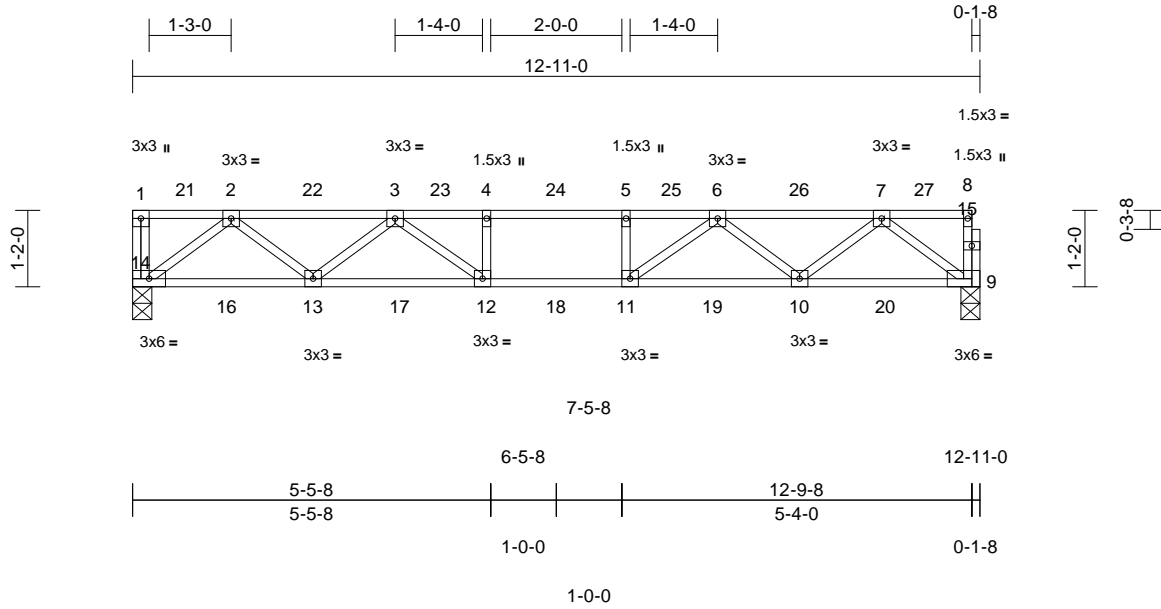
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss 2F15	Truss Type Floor	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314512
--------------------	---------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:19
ID:Npq25lP?UaQaaWH?NNo_DLy8JTM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



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	0.58	Vert(LL)	-0.16	12-13	>969	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.18	12-13	>829	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 12%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)

6) 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 2-2-0 oc bracing.

REACTIONS (size) 9=0-3-8, 14=0-3-8
Max Grav 9=552 (LC 1), 14=557 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-259/33, 8-9=-259/36, 1-2=0/0,
2-3=-1085/0, 3-4=-1661/0, 4-5=-1661/0,
5-6=-1661/0, 6-7=-1085/0, 7-8=-16/2
BOT CHORD 13-14=0/683, 12-13=0/1459, 11-12=0/1661,
10-11=0/1459, 9-10=0/682
WEBS 4-12=-193/101, 5-11=-193/101, 2-14=-857/0,
2-13=0/523, 3-13=-486/0, 3-12=-154/415,
7-9=-854/0, 7-10=0/524, 6-10=-487/0,
6-11=-153/415

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Bearings are assumed to be: Joint 14 SP No.2, Joint 9 SP No.3.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 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.



December 20, 2024

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

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



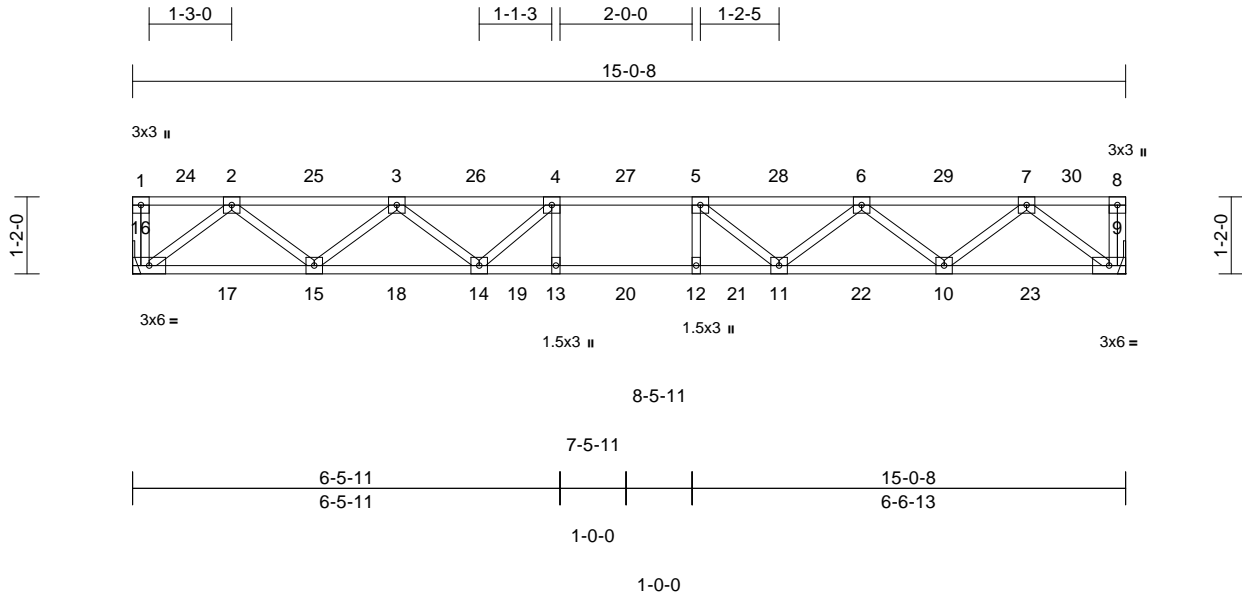
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss F3	Truss Type Floor	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314513
--------------------	-------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:20
ID:JByPw_QF0BglpqROVoqSlmy8JTK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:34.9

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%F, 12%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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9= Mechanical, 16= Mechanical
Max Grav 9=542 (LC 1), 16=542 (LC 1)

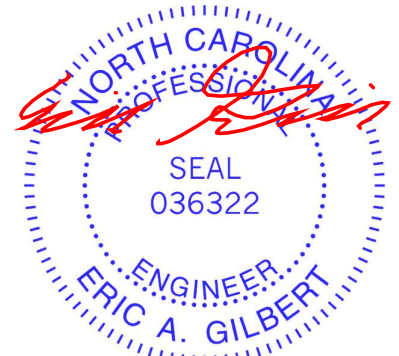
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-259/37, 8-9=-259/37, 1-2=0/0,
2-3=-1103/0, 3-4=-1721/0, 4-5=-1904/0,
5-6=-1719/0, 6-7=-1104/0, 7-8=0/0
BOT CHORD 15-16=0/669, 14-15=0/1514, 13-14=0/1904,
12-13=0/1904, 11-12=0/1904, 10-11=0/1517,
9-10=0/668
WEBS 4-13=-137/189, 5-12=-131/180, 2-16=-839/0,
2-15=0/566, 3-15=-535/0, 3-14=-39/314,
4-14=-370/215, 7-9=-838/0, 7-10=0/567,
6-10=-538/0, 6-11=-40/315, 5-11=-365/213

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.

LOAD CASE(S) Standard



December 20, 2024

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

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

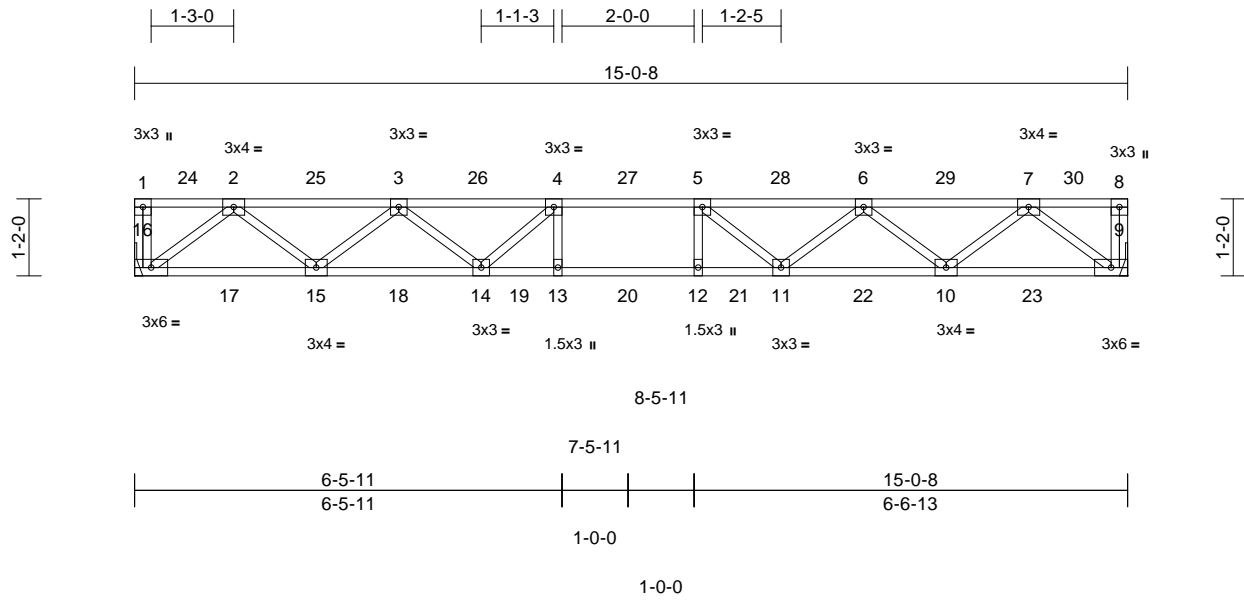
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss F4	Truss Type Floor	Qty 2	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314514
--------------------	-------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:21
ID:JBypW_QF0BglpqROVqSlmy8JTK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

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	0.79	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.18	11-12	>967	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%F, 12%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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9= Mechanical, 16= Mechanical
Max Grav 9=650 (LC 1), 16=650 (LC 1)

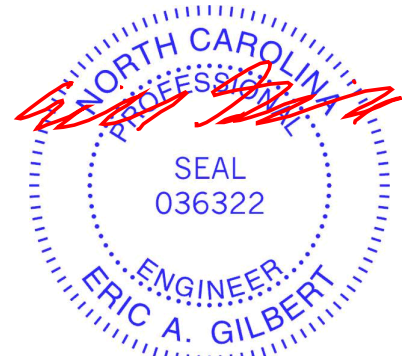
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-260/36, 8-9=-260/36, 1-2=0/0,
2-3=-1323/0, 3-4=-2064/0, 4-5=-2284/0,
5-6=-2061/0, 6-7=-1324/0, 7-8=0/0
BOT CHORD 15-16=0/802, 14-15=0/1816, 13-14=0/2284,
12-13=0/2284, 11-12=0/2284, 10-11=0/1819,
9-10=0/801
WEBS 4-13=-134/192, 5-12=-129/182,
2-16=-1006/0, 2-15=0/678, 3-15=-641/0,
3-14=-23/376, 4-14=-443/203, 7-9=-1005/0,
7-10=0/680, 6-10=-645/0, 6-11=-24/366,
5-11=-437/201

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 has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



December 20, 2024

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

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



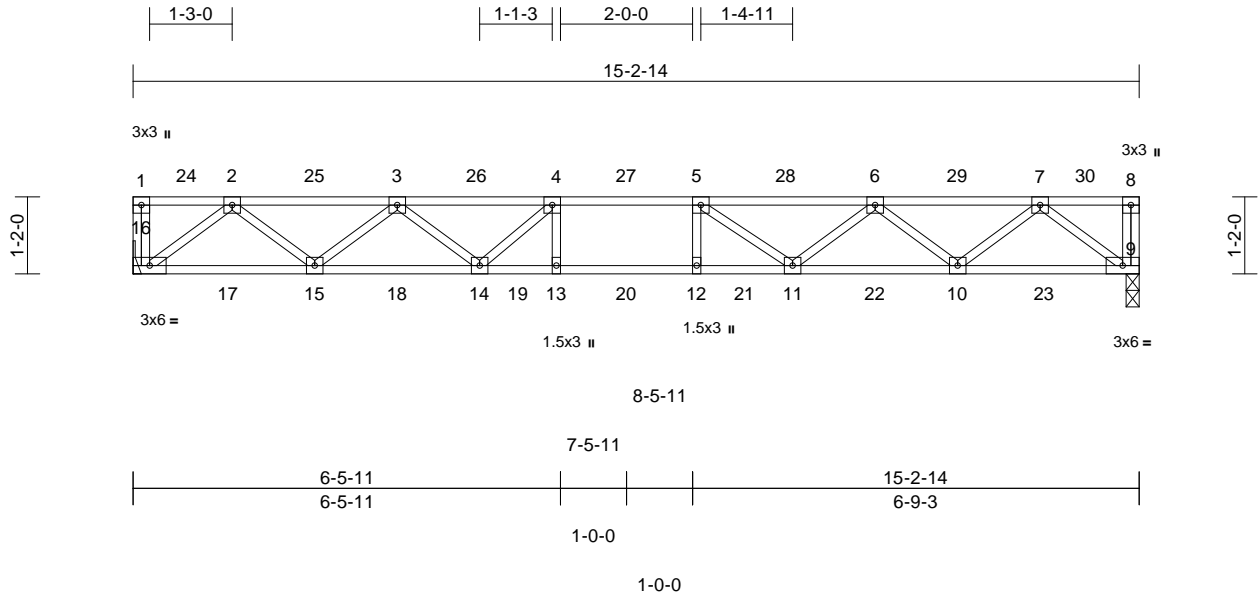
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss F1	Truss Type Floor	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314515
--------------------	-------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:20
ID:r?ORJePdFYRBgsCx4JDMZy8JTL-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.13	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.18	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 12%E

LUMBER **LOAD CASE(S)** Standard

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 5-1-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-2-6, 16= Mechanical
Max Grav 9=550 (LC 1), 16=550 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

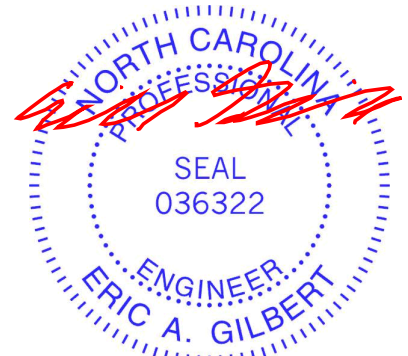
TOP CHORD 1-16=-258/37, 8-9=-259/37, 1-2=0/0,
2-3=-1121/0, 3-4=-1757/0, 4-5=-1957/0,
5-6=-1751/0, 6-7=-1123/0, 7-8=0/0

BOT CHORD 15-16=0/679, 14-15=0/1540, 13-14=0/1957,
12-13=0/1957, 11-12=0/1957, 10-11=0/1549,
9-10=0/676

WEBS 4-13=-133/195, 5-12=-127/169, 2-16=-852/0,
2-15=0/576, 3-15=-545/0, 3-14=-35/325,
4-14=-391/208, 7-9=-848/0, 7-10=0/582,
6-10=-554/0, 6-11=-35/320, 5-11=-378/206

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (≡) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: , Joint 9 SP No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 20, 2024

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

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



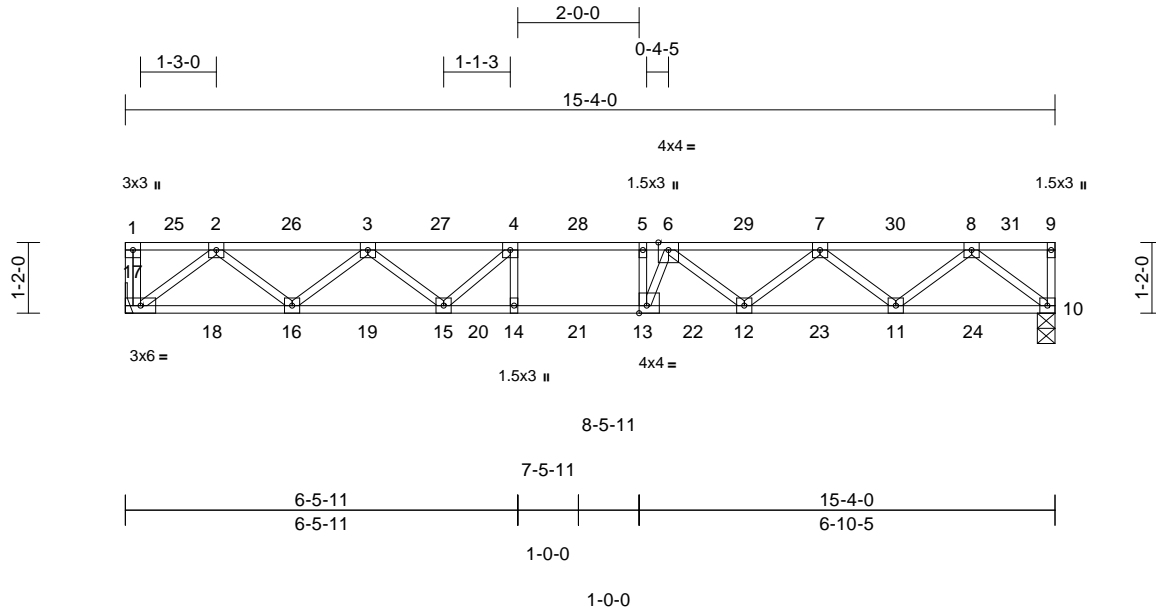
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss F2	Truss Type Floor	Qty 5	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	I70314516
--------------------	-------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:20
ID:r?ORJePdFYRBgsCx4JdmZy8JTL-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.18	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 12%E

LUMBER

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

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=0-3-8, 17= Mechanical
Max Grav 10=555 (LC 1), 17=555 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

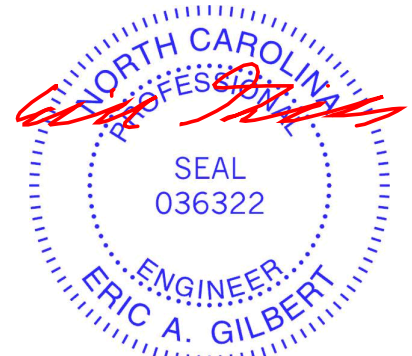
TOP CHORD 1-17=-258/37, 9-10=-258/41, 1-2=0/0, 2-3=-1135/0, 3-4=-1786/0, 4-5=-1990/0, 5-6=-1990/0, 6-7=-1773/0, 7-8=-1114/0, 8-9=0/0

BOT CHORD 16-17=0/686, 15-16=0/1561, 14-15=0/1990, 13-14=0/1990, 12-13=0/1976, 11-12=0/1549, 10-11=0/658

WEBS 4-14=-121/195, 5-13=-271/378, 2-17=-861/0, 2-16=0/585, 3-16=-553/0, 3-15=-31/337, 4-15=-384/195, 8-10=-840/0, 8-11=0/594, 7-11=-566/0, 7-12=-16/362, 6-12=-306/131, 6-13=-470/348

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: , Joint 10 SP No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



December 20, 2024

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

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



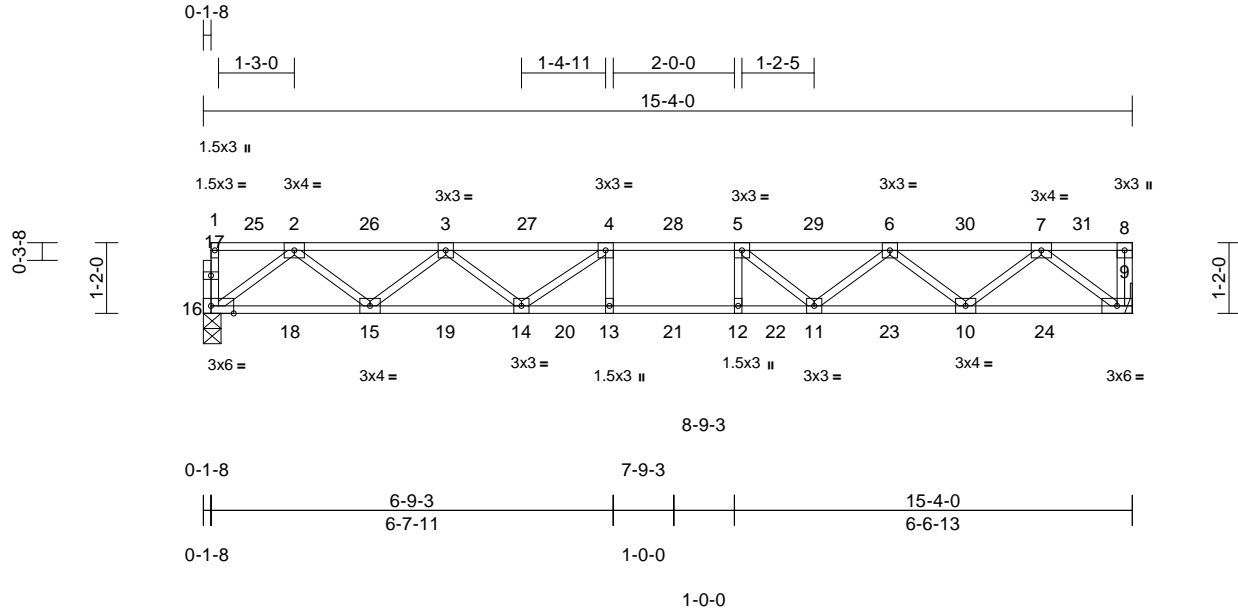
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss F5	Truss Type Floor	Qty 3	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314517
--------------------	-------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:21
ID:JByPW_QF0BgIpqROVoqSlmy8JTK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9
Plate Offsets (X, Y): [16:0-4-8,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	0.86	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.20	13-14	>890	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%F, 12%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.

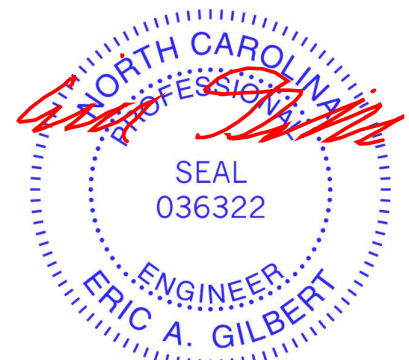
BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S) Standard

REACTIONS (size) 9= Mechanical, 16=0-3-8
Max Grav 9=663 (LC 1), 16=658 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-260/39, 8-9=-260/36, 1-2=-16/2, 2-3=-1357/0, 3-4=-2120/0, 4-5=-2377/0, 5-6=-2124/0, 6-7=-1356/0, 7-8=0/0
BOT CHORD 15-16=0/815, 14-15=0/1872, 13-14=0/2377, 12-13=0/2377, 11-12=0/2377, 10-11=0/1864, 9-10=0/819
WEBS 4-13=-123/173, 5-12=-122/191, 2-16=-1021/0, 2-15=0/705, 3-15=-670/0, 3-14=-17/366, 4-14=-466/189, 7-9=-1027/0, 7-10=0/699, 6-10=-662/0, 6-11=-16/387, 5-11=-476/189

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Bearings are assumed to be: Joint 16 SP No.3 .
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



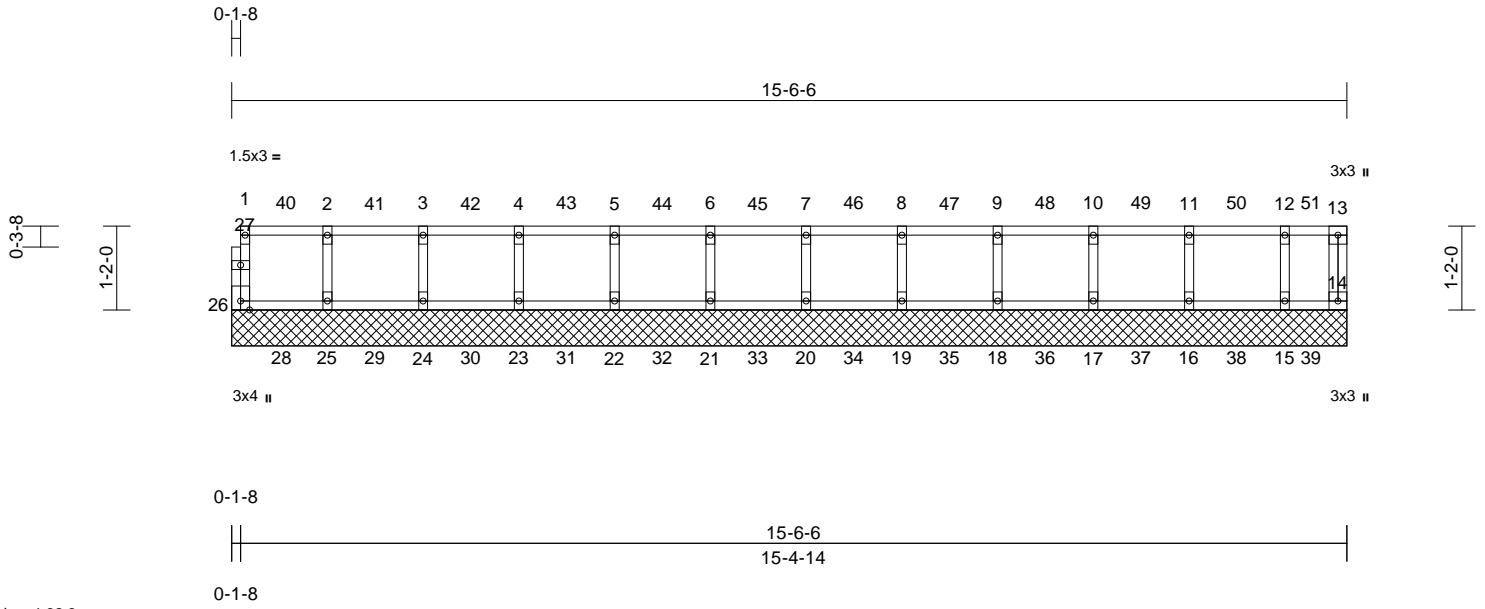
December 20, 2024

Job 2412-1229-A	Truss FGE1	Truss Type Floor Supported Gable	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314518
--------------------	---------------	-------------------------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:21
ID:cXtS_NVeMLZl9vTkPmS54Fy8JTD-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?

Page: 1



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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 66 lb	FT = 20%F, 12%E

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

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

REACTIONS (size)
14=15-6-6, 15=15-6-6, 16=15-6-6,
17=15-6-6, 18=15-6-6, 19=15-6-6,
20=15-6-6, 21=15-6-6, 22=15-6-6,
23=15-6-6, 24=15-6-6, 25=15-6-6,
26=15-6-6
Max Uplift 14=45 (LC 40), 15=23 (LC 4),
17=1 (LC 37), 26=16 (LC 5)
Max Grav 14=261 (LC 54), 15=278 (LC 53),
16=286 (LC 52), 17=285 (LC 51),
18=285 (LC 50), 19=285 (LC 49),
20=285 (LC 48), 21=285 (LC 47),
22=285 (LC 46), 23=285 (LC 45),
24=285 (LC 44), 25=286 (LC 43),
26=265 (LC 42)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-254/23, 13-14=-256/50, 1-2=-27/6,
2-3=-27/6, 3-4=-27/6, 4-5=-27/6, 5-6=-27/6,
6-7=-27/6, 7-8=-27/6, 8-9=-27/6, 9-10=-27/6,
10-11=-27/6, 11-12=-27/6, 12-13=-27/6
BOT CHORD 25-26=-6/27, 24-25=-6/27, 23-24=-6/27,
22-23=-6/27, 21-22=-6/27, 20-21=-6/27,
19-20=-6/27, 18-19=-6/27, 17-18=-6/27,
16-17=-6/27, 15-16=-6/27, 14-15=-6/27
WEBS 2-25=-272/12, 3-24=-272/10, 4-23=-272/10,
5-22=-272/10, 6-21=-272/10, 7-20=-272/10,
8-19=-272/10, 9-18=-272/10, 10-17=-272/10,
11-16=-273/10, 12-15=-264/24

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.3 .
- Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 26.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, and 15. This connection is for uplift only and does not consider lateral forces.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



December 20, 2024

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

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



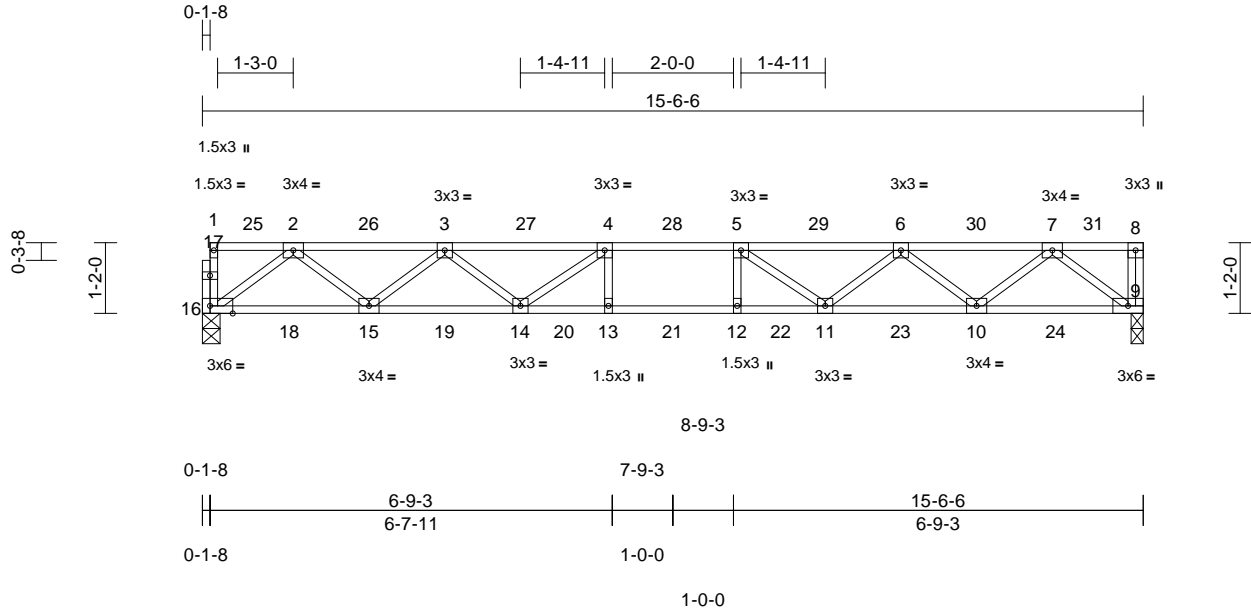
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss 2F1	Truss Type Floor	Qty 6	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314519
--------------------	--------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:15
ID:zE9wTHM7Bf2?i3YQIFHbjy8JTP-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Plate Offsets (X, Y): [16:0-4-8,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	0.87	Vert(LL)	-0.15	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.21	11-12	>887	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 12%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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-2-6, 16=0-3-8

Max Grav 9=672 (LC 1), 16=667 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-260/39, 8-9=-260/36, 1-2=-16/2, 2-3=-1379/0, 3-4=-2162/0, 4-5=-2443/0, 5-6=-2162/0, 6-7=-1379/0, 7-8=0/0
BOT CHORD 15-16=0/827, 14-15=0/1903, 13-14=0/2443, 12-13=0/2443, 11-12=0/2443, 10-11=0/1903, 9-10=0/828
WEBS 4-13=-119/178, 5-12=-119/178, 2-16=-1035/0, 2-15=0/718, 3-15=-682/0, 3-14=-11/380, 4-14=-492/180, 7-9=-1039/0, 7-10=0/717, 6-10=-682/0, 6-11=-11/380, 5-11=-492/180

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearings are assumed to be: Joint 16 SP No.3, Joint 9 SP No.2.
- 3) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.

- 5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



December 20, 2024

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

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



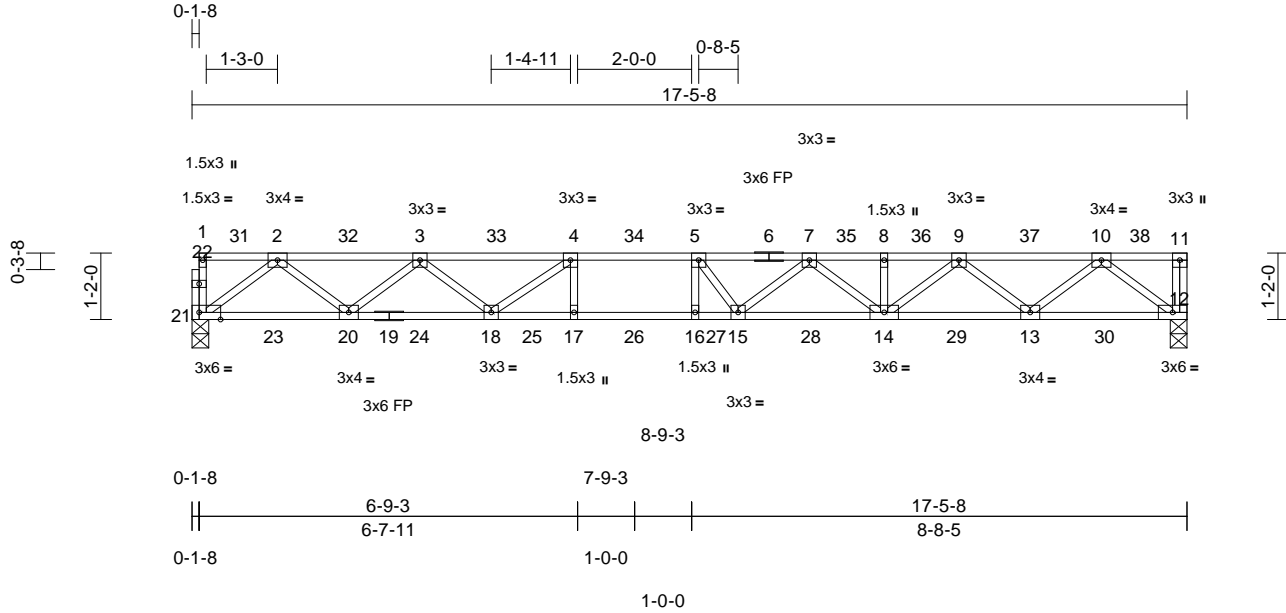
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss 2F6	Truss Type Floor	Qty 8	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314520
--------------------	--------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:16
ID:nOWBkkRunVo9R_0a3VLhr_y8JTJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:35.2

Plate Offsets (X, Y): [21:0-4-8,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	0.84	Vert(LL)	-0.24	15-16	>865	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.33	15-16	>629	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* 19-12:2x4 SP SS (flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 12=0-3-8, 21=0-3-8
 Max Grav 12=757 (LC 1), 21=752 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-21=-259/40, 11-12=-259/34, 1-2=-16/2, 2-3=-1591/0, 3-4=-2576/0, 4-5=-3052/0, 5-7=-3061/0, 7-8=-2620/0, 8-9=-2620/0, 9-10=-1587/0, 10-11=0/0
 BOT CHORD 20-21=0/942, 18-20=0/2205, 17-18=0/3052, 16-17=0/3052, 15-16=0/3052, 14-15=0/2954, 13-14=0/2202, 12-13=0/944
 WEBS 4-17=-93/219, 5-16=-302/169, 2-21=-1180/0, 2-20=0/845, 3-20=-799/0, 3-18=0/501, 4-18=-698/93, 10-12=-1184/0, 10-13=0/837, 9-13=-800/0, 9-14=-4/534, 8-14=-244/70, 7-14=-453/18, 7-15=-135/303, 5-15=-311/417

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearings are assumed to be: Joint 21 SP No.3, Joint 12 SP SS.
- 3) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



December 20,2024

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

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



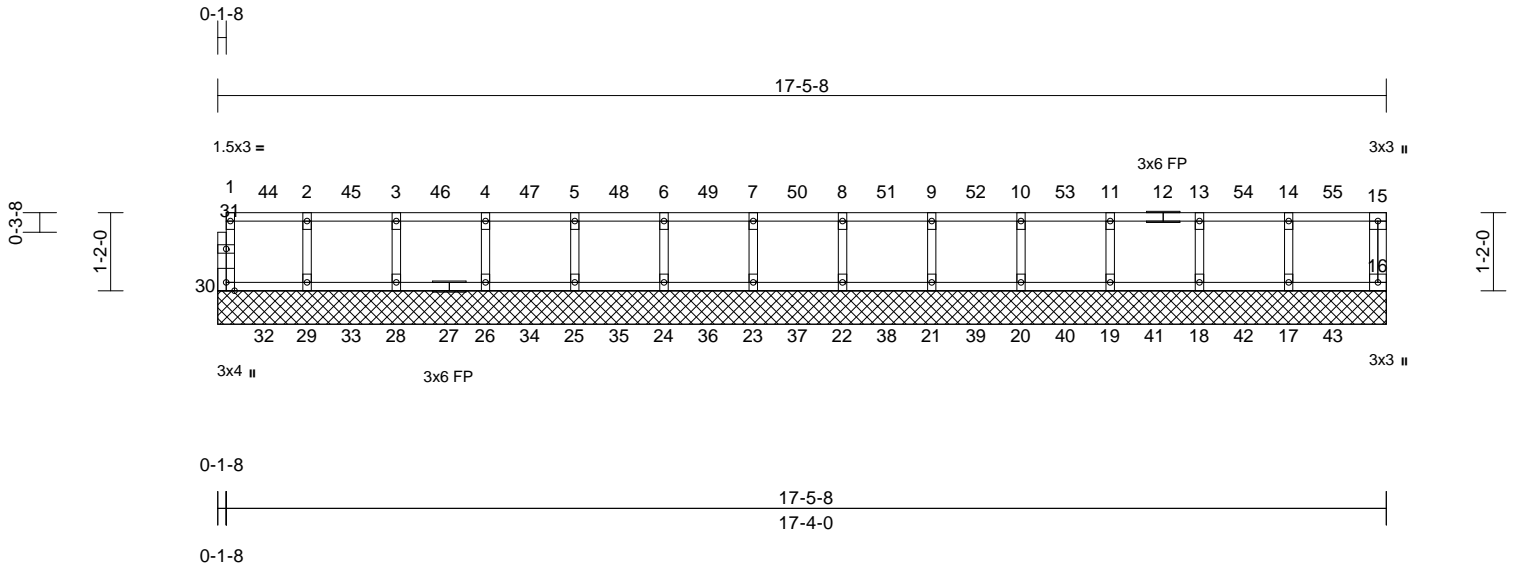
818 Soundside Road
 Edenton, NC 27932

Job 2412-1229-A	Truss FGE2	Truss Type Floor Supported Gable	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314521
--------------------	---------------	-------------------------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:22
ID:4kRqCjWH7eh9m22wzTzKdSy8JTC-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 73 lb	FT = 20%F, 12%E

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

WEBS	
2-29	=-271/12, 3-28=-272/10, 4-26=-272/10,
5-25	=-272/10, 6-24=-272/10, 7-23=-272/10,
8-22	=-272/10, 9-21=-272/10, 10-20=-272/10,
11-19	=-272/10, 13-18=-272/10,
14-17	=-272/12

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)	
16=17-5-8, 17=17-5-8, 18=17-5-8,	
19=17-5-8, 20=17-5-8, 21=17-5-8,	
22=17-5-8, 23=17-5-8, 24=17-5-8,	
25=17-5-8, 26=17-5-8, 28=17-5-8,	
29=17-5-8, 30=17-5-8	
Max Uplift	16=-9 (LC 43), 18=-2 (LC 44),
	25=-2 (LC 34), 30=-13 (LC 5)
Max Grav	16=268 (LC 58), 17=286 (LC 57),
	18=285 (LC 56), 19=285 (LC 55),
	20=285 (LC 54), 21=285 (LC 53),
	22=285 (LC 52), 23=285 (LC 51),
	24=285 (LC 50), 25=285 (LC 49),
	26=285 (LC 48), 28=285 (LC 47),
	29=284 (LC 46), 30=266 (LC 45)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-30=-253/21, 15-16=-263/16, 1-2=-25/3,
	2-3=-25/3, 3-4=-25/3, 4-5=-25/3, 5-6=-25/3,
	6-7=-25/3, 7-8=-25/3, 8-9=-25/3, 9-10=-25/3,
	10-11=-25/3, 11-13=-25/3, 13-14=-25/3,
	14-15=-25/3
BOT CHORD	29-30=-3/25, 28-29=-3/25, 26-28=-3/25,
	25-26=-3/25, 24-25=-3/25, 23-24=-3/25,
	22-23=-3/25, 21-22=-3/25, 20-21=-3/25,
	19-20=-3/25, 18-19=-3/25, 17-18=-3/25,
	16-17=-3/25

- 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.3 .
 - Bearing at joint(s) 30 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 30.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, and 17. This connection is for uplift only and does not consider lateral forces.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 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



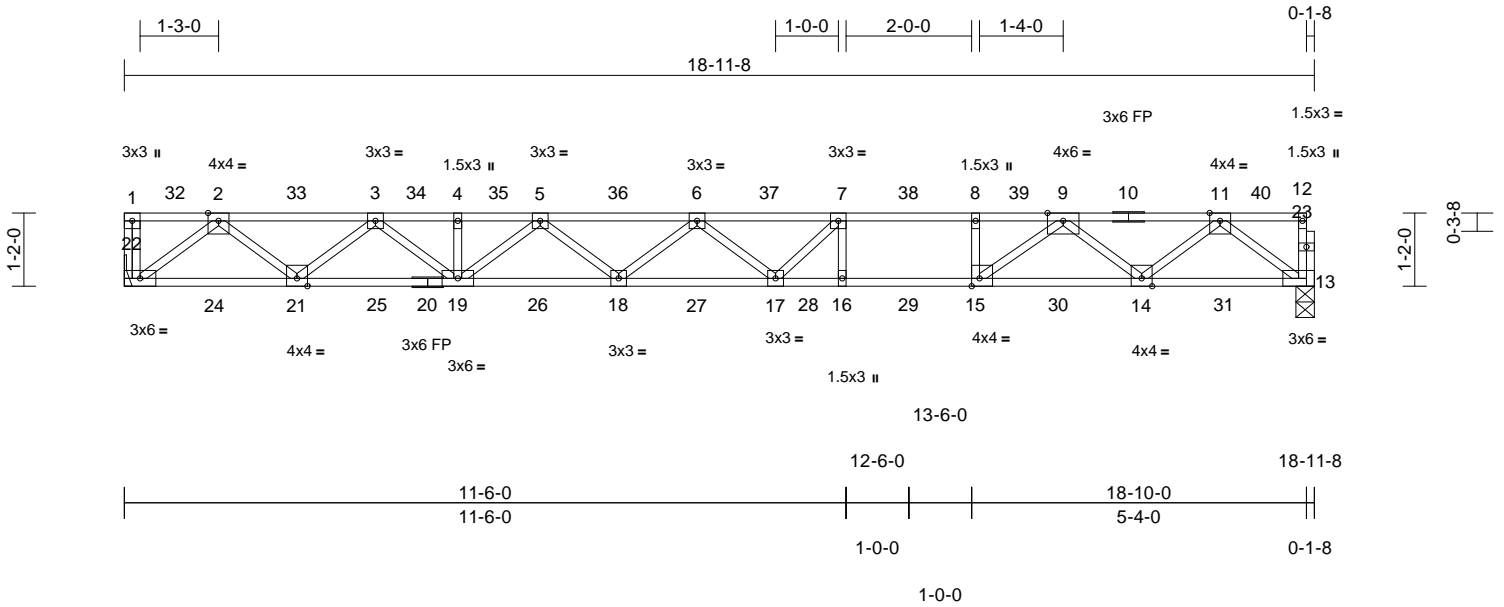
December 20, 2024

Job 2412-1229-A	Truss 2F11	Truss Type Floor	Qty 3	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314522
--------------------	---------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:18
ID:RQjgdNlyyAsKC7dGymW8wy8JTO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:37.6

Plate Offsets (X, Y): [15:0-1-8,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)	-0.37	16-17	>603	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.51	16-17	>439	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 10-12:2x4 SP No.2 (flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS (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, 22= Mechanical
 Max Grav 13=818 (LC 1), 22=823 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-259/33, 12-13=-257/30, 1-2=0/0, 2-3=-1751/0, 3-4=-2954/0, 4-5=-2954/0, 5-6=-3551/0, 6-7=-3600/0, 7-8=-3263/0, 8-9=-3263/0, 9-11=-1712/0, 11-12=-15/2
 BOT CHORD 21-22=0/1030, 19-21=0/2445, 18-19=0/3349, 17-18=0/3748, 16-17=0/3263, 15-16=0/3263, 14-15=0/2459, 13-14=0/1023
 WEBS 7-16=-363/63, 8-15=-407/2, 2-22=-1293/0, 2-21=0/938, 3-21=903/0, 3-19=0/650, 4-19=-265/55, 5-19=-504/11, 5-18=-47/330, 6-18=-304/108, 6-17=-282/124, 7-17=-61/603, 11-13=-1282/0, 11-14=0/897, 9-14=-972/0, 9-15=0/1098

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearings are assumed to be: , Joint 13 SP SS .
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



December 20, 2024

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

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



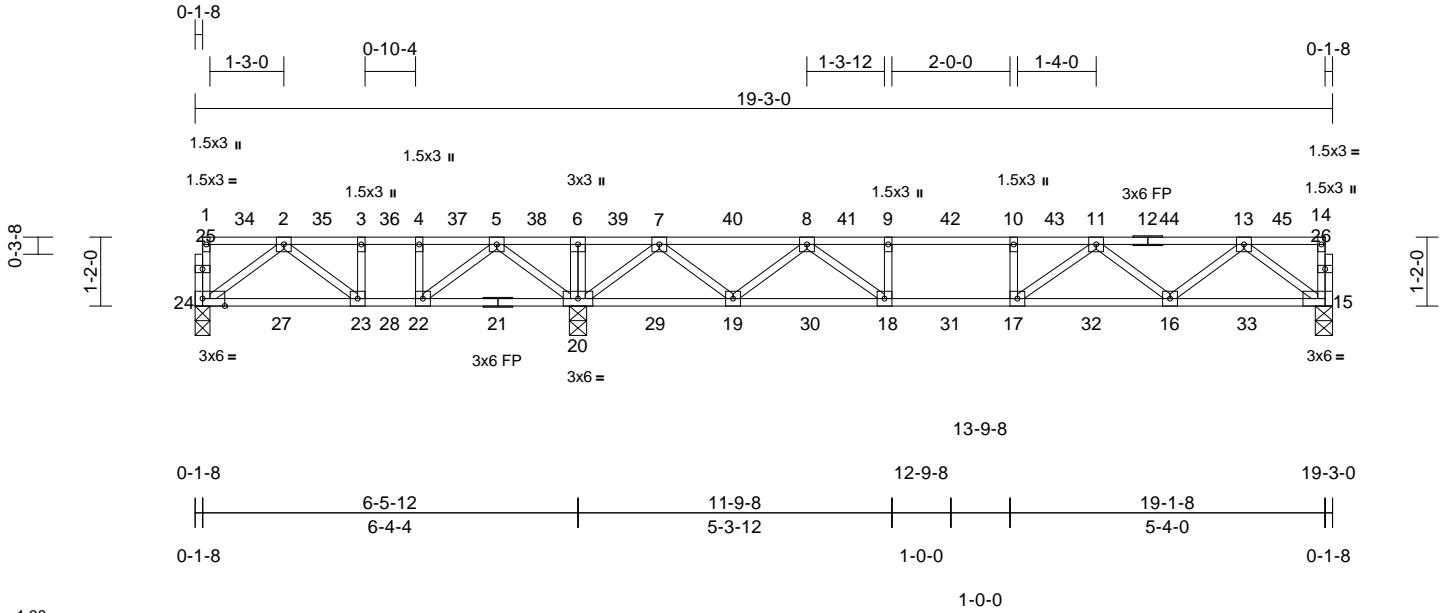
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0063
2412-1229-A	2F14	Floor	2	1	170314523
					Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:19
 ID:Npq25IP?UaQaaWH?NNo_DLy8JTM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:38
 Plate Offsets (X, Y): [24:0-4-8,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	0.58	Vert(LL)	-0.15	16-17	>996	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.18	16-17	>827	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 12%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) 15=0-3-8, 20=0-3-8, 24=0-3-0
 Max Uplift 24=43 (LC 46)
 Max Grav 15=499 (LC 7), 20=1007 (LC 1), 24=297 (LC 50)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-24=-260/17, 14-15=-259/36, 1-2=-16/1, 2-3=-375/239, 3-4=-375/239, 4-5=-375/239, 5-6=0/738, 6-7=0/738, 7-8=-578/15, 8-9=-1342/0, 9-10=-1342/0, 10-11=-1342/0, 11-13=-960/0, 13-14=-16/2
 BOT CHORD 23-24=-80/299, 22-23=-239/375, 20-22=-492/114, 19-20=-254/270, 18-19=0/1023, 17-18=0/1342, 16-17=0/1262, 15-16=0/614
 WEBS 6-20=-275/36, 9-18=-231/39, 10-17=-156/103, 5-20=-556/0, 2-24=-375/101, 5-22=0/438, 2-23=-202/193, 3-23=-144/150, 4-22=-224/57, 7-20=-927/0, 7-19=0/601, 8-19=-593/0, 8-18=-38/484, 13-15=-768/0, 13-16=0/473, 11-16=-393/5, 11-17=-194/255

- Bearing at joint(s) 24, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. This connection is for uplift only and does not consider lateral forces.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 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

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x3 (≡) MT20 unless otherwise indicated.
 - Bearings are assumed to be: Joint 24 SP No.3, Joint 20 SP No.2, Joint 15 SP No.2.



December 20, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

ENGINEERING BY
TRENCO
 A MITEK Affiliate

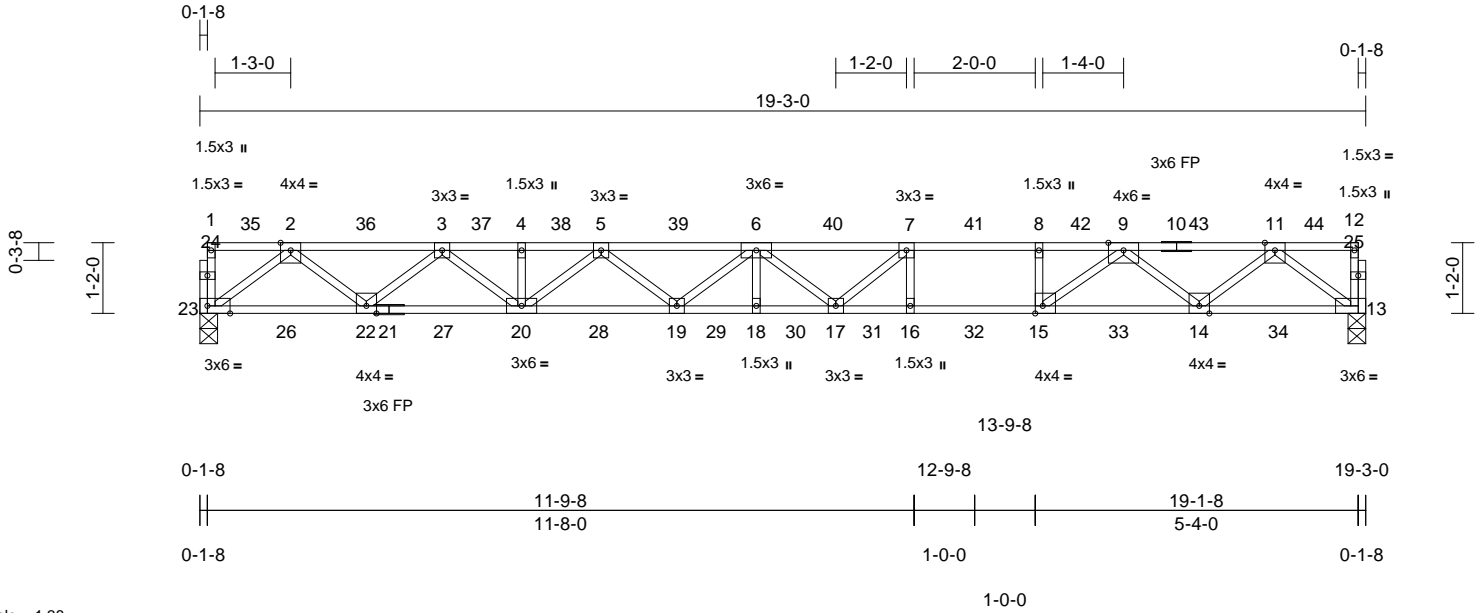
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0063
2412-1229-A	2F13	Floor	5	1	170314524
					Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:19
 ID:vcGguyONjGijyMipqfHlgBy8JTN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:38
 Plate Offsets (X, Y): [15:0-1-8,Edge], [23:0-4-8,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	0.54	Vert(LL)	-0.38	16-17	>606	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.52	16-17	>442	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 12%E

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

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

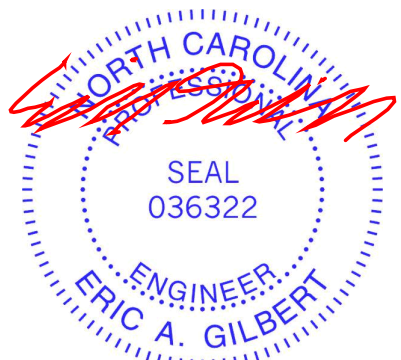
REACTIONS (size) 13=0-3-8, 23=0-3-8
 Max Grav 13=830 (LC 1), 23=830 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-23=-259/37, 12-13=-257/39, 1-2=-16/2, 2-3=-1783/0, 3-4=-3015/0, 4-5=-3015/0, 5-6=-3654/0, 6-7=-3730/0, 7-8=-3345/0, 8-9=-3345/0, 9-11=-1741/0, 11-12=-15/2
 BOT CHORD 22-23=0/1047, 20-22=0/2493, 19-20=0/3431, 18-19=0/3850, 17-18=0/3850, 16-17=0/3345, 15-16=0/3345, 14-15=0/2505, 13-14=0/1041
 WEBS 7-16=-362/59, 8-15=-420/0, 2-23=-1311/0, 2-22=0/959, 3-22=-923/0, 3-20=0/667, 4-20=-264/59, 5-20=-531/1, 5-19=-36/335, 6-19=-297/176, 6-18=-101/217, 6-17=-271/149, 7-17=-58/637, 11-13=-1304/0, 11-14=0/912, 9-14=-994/0, 9-15=0/1141

NOTES
 1) Unbalanced floor live loads have been considered for this design.
 2) Bearings are assumed to be: Joint 23 SP No.3, Joint 13 SP DSS.
 3) Bearing at joint(s) 23, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 5) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



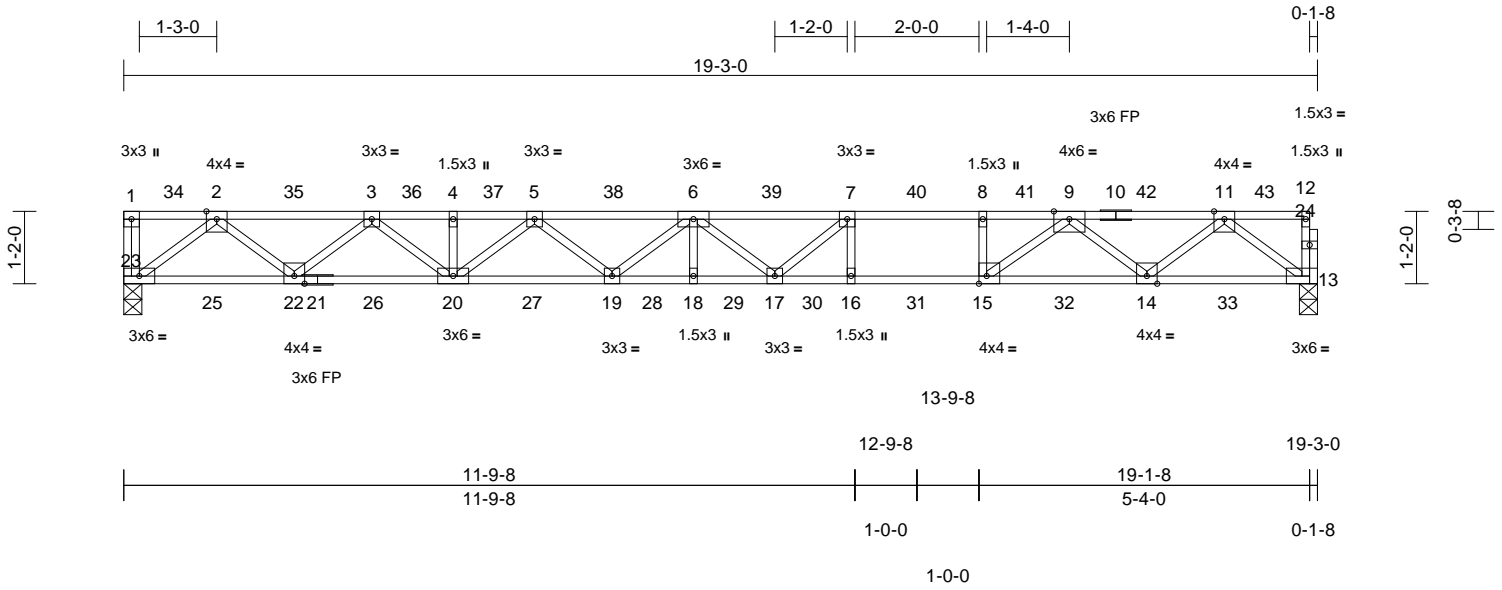
December 20, 2024

Job 2412-1229-A	Truss 2F12	Truss Type Floor	Qty 5	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	170314525
--------------------	---------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:18
ID:RQjgdNlyyAsKC7dGymW8wy8JTO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:38.1

Plate Offsets (X, Y): [15:0-1-8,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	0.54	Vert(LL)	-0.38	16-17	>606	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.52	16-17	>442	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 12%E

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

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

REACTIONS (size) 13=0-3-8, 23=0-3-8
Max Grav 13=830 (LC 1), 23=835 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-259/33, 12-13=-257/39, 1-2=0/0, 2-3=-1784/0, 3-4=-3015/0, 4-5=-3015/0, 5-6=-3654/0, 6-7=-3730/0, 7-8=-3346/0, 8-9=-3346/0, 9-11=-1741/0, 11-12=-15/2
BOT CHORD 22-23=0/1047, 20-22=0/2493, 19-20=0/3431, 18-19=0/3850, 17-18=0/3850, 16-17=0/3346, 15-16=0/3346, 14-15=0/2505, 13-14=0/1041
WEBS 7-16=-362/59, 8-15=-420/0, 2-23=-1314/0, 2-22=0/959, 3-22=-923/0, 3-20=0/667, 4-20=-264/59, 5-20=-531/1, 5-19=-36/335, 6-19=-297/176, 6-18=-101/217, 6-17=-271/149, 7-17=-58/637, 11-13=-1304/0, 11-14=0/912, 9-14=-994/0, 9-15=0/1141

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP DSS.
3) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 10'-0"-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



December 20, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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)

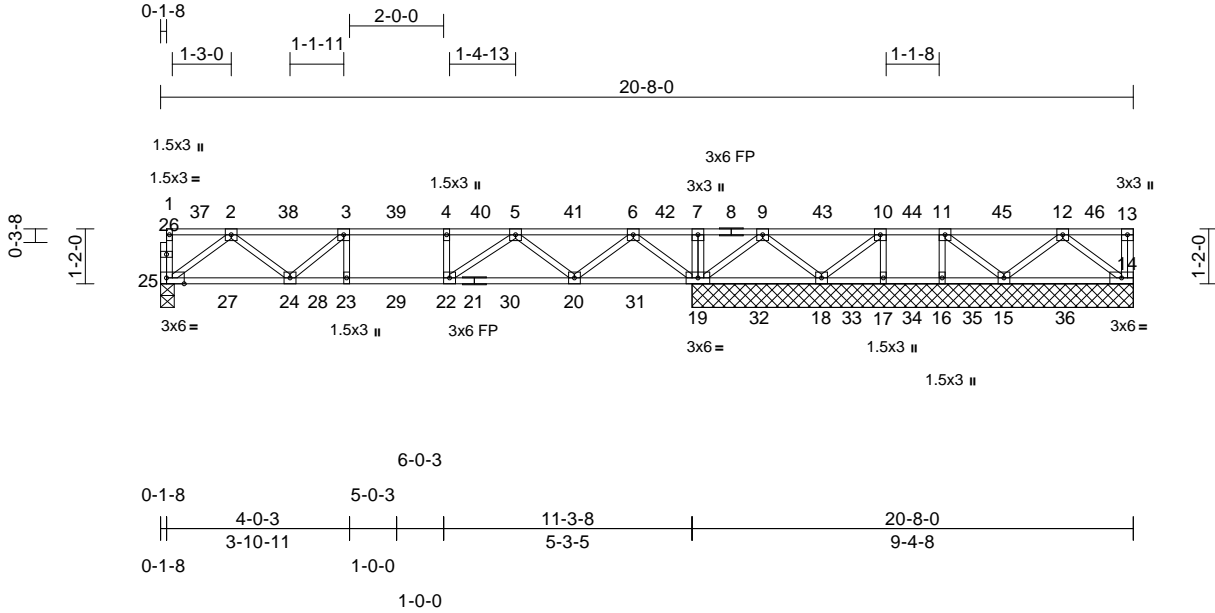
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2412-1229-A	Truss 2F8	Truss Type Floor	Qty 1	Ply 1	The Farm at Neills Creek Lot 00.0063 Job Reference (optional)	I70314526
--------------------	--------------	---------------------	----------	----------	--	-----------

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:17
ID:Fa4ZxgSWYow027bmcDtwNBy8JTI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC7f

Page: 1



Scale = 1:42.9

Plate Offsets (X, Y): [25:0-4-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.11	20-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.12	20-22	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 12%E

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

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

REACTIONS (size)
14=9-4-8, 15=9-4-8, 16=9-4-8, 17=9-4-8, 18=9-4-8, 19=9-4-8, 25=0-3-8
Max Horiz 25=0 (LC 5)
Max Uplift 16=80 (LC 63), 17=69 (LC 59), 18=224 (LC 57)
Max Grav 14=276 (LC 74), 15=293 (LC 73), 16=281 (LC 72), 17=270 (LC 71), 18=236 (LC 70), 19=818 (LC 14), 25=348 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-25=-258/47, 13-14=-257/37, 1-2=-15/9, 2-3=-682/0, 3-4=-810/0, 4-5=-810/0, 5-6=-409/121, 6-7=-54/920, 7-9=-54/920, 9-10=0/117, 10-11=-9/35, 11-12=-7/48, 12-13=-10/10
BOT CHORD 24-25=0/463, 23-24=0/810, 22-23=0/810, 20-22=0/593, 19-20=-468/250, 18-19=-480/52, 17-18=-35/9, 16-17=-35/9, 15-16=-35/11, 14-15=-1/156
WEBS 3-23=-111/180, 4-22=-220/47, 7-19=-264/56, 2-25=-584/0, 2-24=0/384, 3-24=-299/144, 6-19=-720/0, 6-20=0/544, 5-20=-448/0, 5-22=-66/381, 9-19=-552/11, 12-14=-195/3, 9-18=-147/481, 12-15=-258/0, 10-18=-112/2, 11-15=-51/18, 10-17=-234/52, 11-16=-248/36

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 25 SP No.3, Joint 16 SP No.2.
- Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 18.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 16. This connection is for uplift only and does not consider lateral forces.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- This truss has been designed for a total drag load of 150 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-8-0 for 7.3 plf.
- 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



December 20, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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)

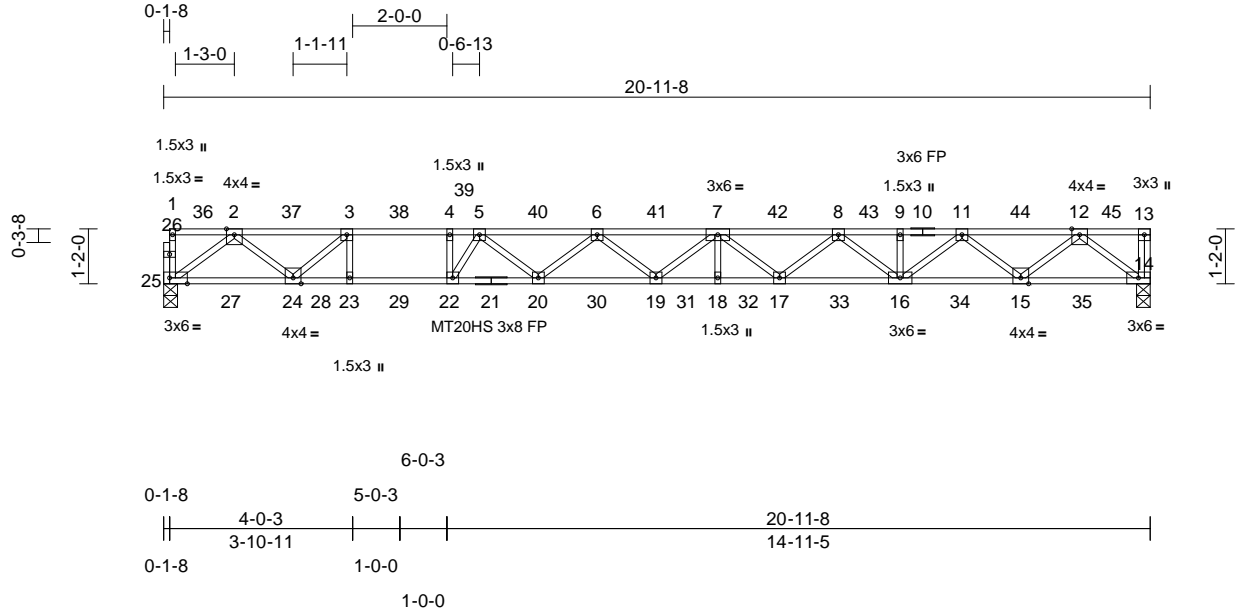
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0063
2412-1229-A	2F9	Floor	6	1	Job Reference (optional)
					I70314527

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Dec 19 05:42:17
 ID:kmx80S8l62sgH9zAwO9wPy8JTH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWkCoI7J4zJC?f

Page: 1



Scale = 1:42.9
 Plate Offsets (X, Y): [25:0-4-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.44	20-22	>564	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.61	20-22	>410	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 107 lb	FT = 20%F, 12%E

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

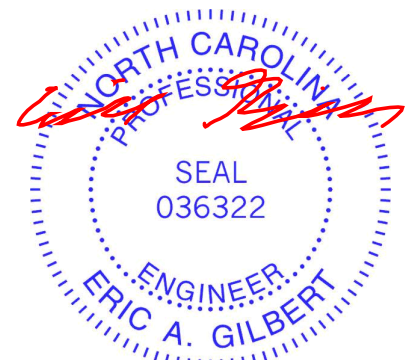
BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 14=0-3-8, 25=0-3-8
 Max Grav 14=759 (LC 1), 25=755 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-25=-271/33, 13-14=-258/34, 1-2=-16/2, 2-3=-1677/0, 3-4=-2673/0, 4-5=-2673/0, 5-6=-3566/0, 6-7=-3725/0, 7-8=-3500/0, 8-9=-2823/0, 9-11=-2823/0, 11-12=-1644/0, 12-13=0/0
 BOT CHORD 24-25=0/881, 23-24=0/2673, 22-23=0/2673, 20-22=0/3198, 19-20=0/3740, 18-19=0/3737, 17-18=0/3737, 16-17=0/3259, 15-16=0/2311, 14-15=0/955
 WEBS 3-23=0/429, 4-22=0/593, 2-25=-1100/0, 2-24=0/1036, 3-24=-1317/0, 12-14=-1199/0, 12-15=0/897, 11-15=-868/0, 11-16=0/654, 9-16=-255/69, 8-16=-556/0, 8-17=-30/342, 7-17=-328/152, 7-18=-66/259, 7-19=-205/266, 6-19=-189/194, 6-20=-276/132, 5-20=0/522, 5-22=-1071/0

- Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 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

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x3 (=) MT20 unless otherwise indicated.
 - Bearings are assumed to be: Joint 25 SP No.3, Joint 14 SP DSS.



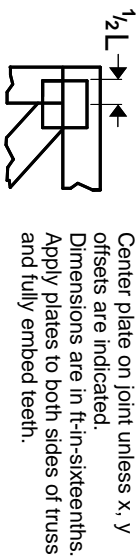
December 20, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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)

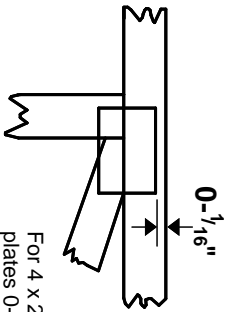
TRENCO
 ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Symbols

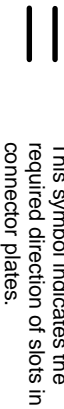
PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

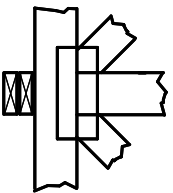
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

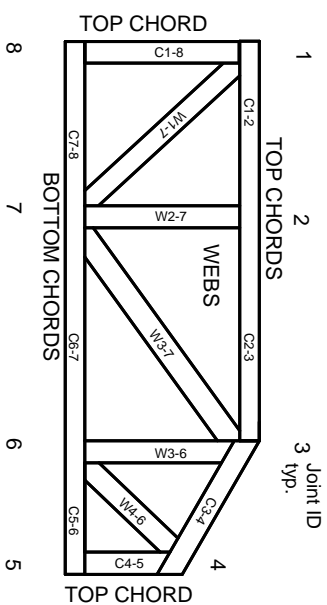


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/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



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.

© 2023 MITek® All Rights Reserved

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.

MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

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