ENGINEERING BY TRENCO
A MiTek Affiliate

RE: 2502-2109-A - The Farm at Neill's Creek Lot 00.0056 OWF

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: DRB Raleigh Project Name: The Farm at Neill's Creek Lot 00.0056
Lot/Block: Lot 00.0056 Subdivision:
Model: Drayton
Address: 567 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
Wind Code: ASCE 7-16
Wind Speed: 115 mph
Roof Load: 50.0 psf
Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8
Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16
Floor Load: N/A psf

Exposure Category: B

No.	Seal#	Truss Name	Date
1	I71527198	2F11	2/20/25
2	I71527199	2F12	2/20/25
3	I71527200	2F15	2/20/25
4	I71527201	2FGE3	2/20/25
5	I71527202	2F4	2/20/25
6	I71527203	2F3	2/20/25
7	I71527204	2F5	2/20/25
8		2F6	2/20/25
9	I71527206	2FGE2	2/20/25
10	I71527207	2F2	2/20/25
11	I71527208	2FGE1	2/20/25
12	I71527209	2F1	2/20/25
13	I71527210	2F10	2/20/25
14	I71527211	2F7	2/20/25
	I71527212	2F8	2/20/25
16	I71527213	2F14	2/20/25
17		2F13	2/20/25
18	I71527215	2F13A	2/20/25

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, 2025.

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.

February 20,2025

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F11	Floor	1	1	I71527198 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:30 Page: 1

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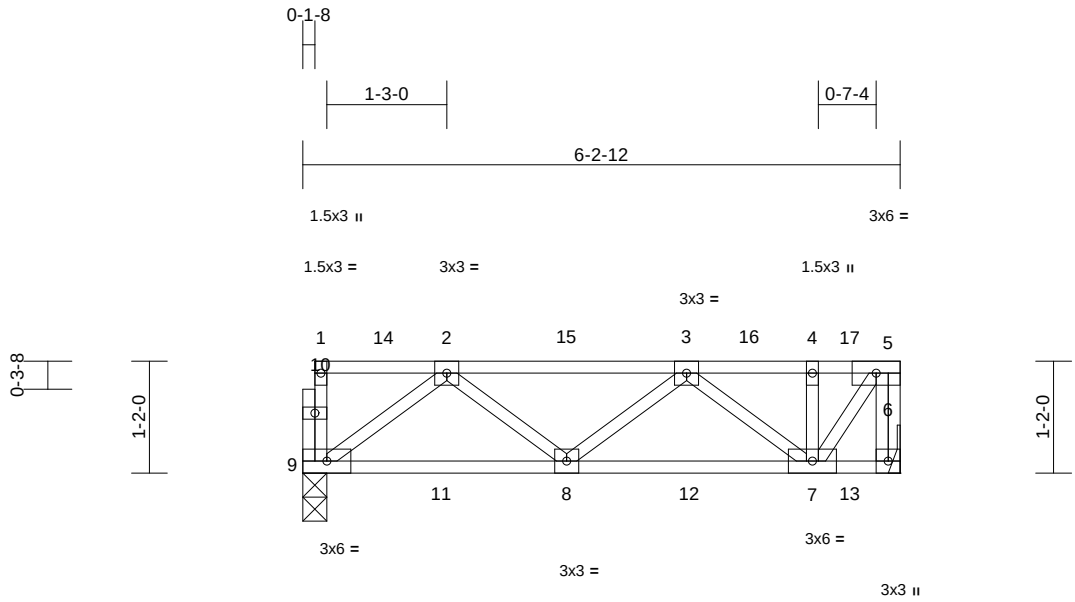

Scale = 1:24

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	0.56	Vert(LL)	-0.08	8-9	>856	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.09	8-9	>807	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 36 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 10-0-0 oc bracing.

REACTIONS (size) 6= Mechanical, 9=0-3-0
Max Grav 6=325 (LC 8), 9=324 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-259/38, 5-6=-333/0, 1-2=-15/2, 2-3=-456/0, 3-4=-246/0, 4-5=-246/0
BOT CHORD 8-9=0/330, 7-8=0/426, 6-7=0/0
WEBS 2-9=-414/0, 2-8=-57/254, 3-8=-133/177, 3-7=-336/0, 4-7=-259/71, 5-7=0/408

NOTES

1) Bearings are assumed to be: Joint 9 SP No.2 .
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
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

February 20,2025

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F12	Floor	4	1	I71527199 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:30 Page: 1

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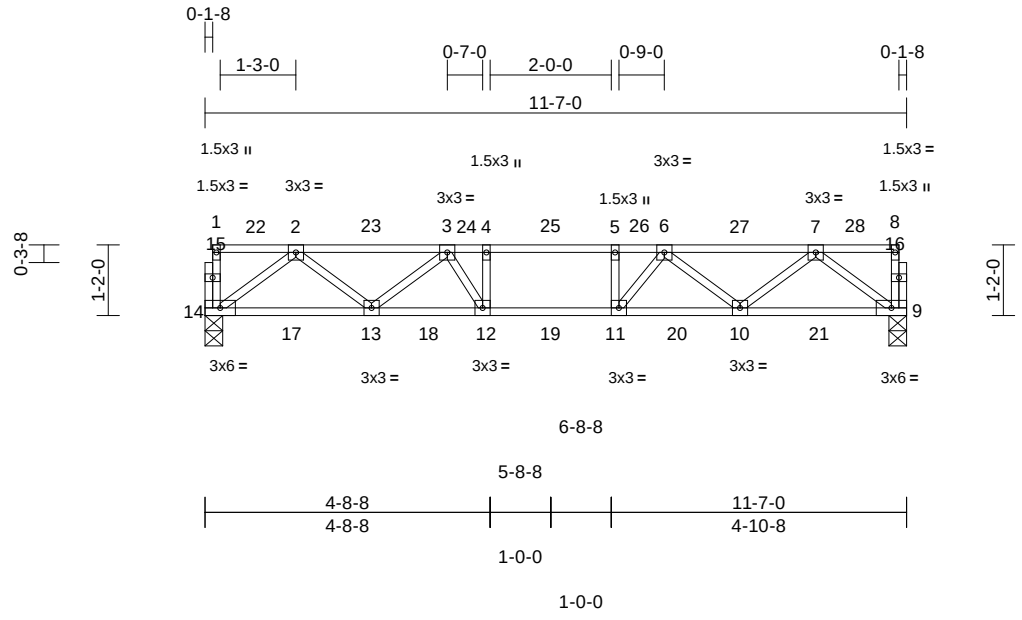

Scale = 1:38

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	0.56	Vert(LL)	-0.10	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.12	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 59 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 10-0-0 oc bracing.

REACTIONS (size) 9=0-3-8, 14=0-3-8
Max Grav 9=493 (LC 1), 14=493 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-259/34, 8-9=-259/34, 1-2=-16/2, 2-3=-937/0, 3-4=-1324/0, 4-5=-1324/0, 5-6=-1324/0, 6-7=-938/0, 7-8=-16/2
BOT CHORD 13-14=0/604, 12-13=0/1247, 11-12=0/1324, 10-11=0/1243, 9-10=0/605
WEBS 4-12=-246/201, 5-11=-214/164, 2-14=-756/0, 2-13=0/441, 3-13=-404/30, 3-12=-258/339, 7-9=-757/0, 7-10=0/442, 6-10=-398/23, 6-11=-231/311

NOTES

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

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F15	Floor	2	1	I71527200 Job Reference (optional)

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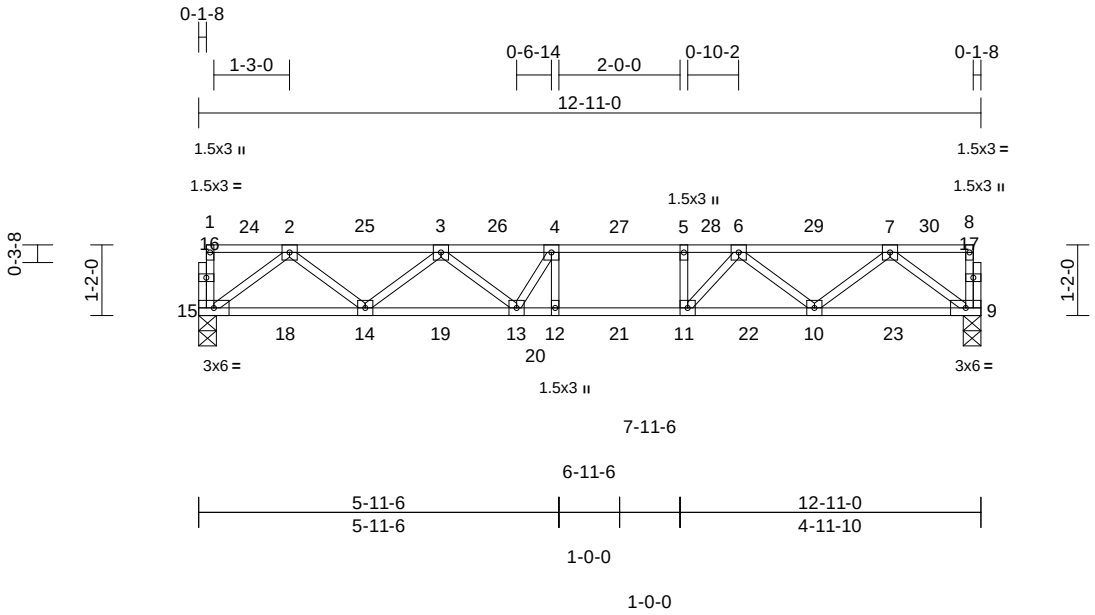

Scale = 1:38

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	0.60	Vert(LL)	-0.11	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.13	12-13	>999	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)

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

REACTIONS (size) 9=0-3-8, 15=0-3-8
Max Grav 9=552 (LC 1), 15=552 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-259/38, 8-9=-259/35, 1-2=-16/2, 2-3=-1087/0, 3-4=-1614/0, 4-5=-1650/0, 5-6=-1650/0, 6-7=-1078/0, 7-8=-15/2
BOT CHORD 14-15=0/679, 13-14=0/1468, 12-13=0/1650, 11-12=0/1650, 10-11=0/1467, 9-10=0/681
WEBS 4-12=-263/203, 5-11=-243/113, 2-15=-850/0, 2-14=0/530, 3-14=-496/0, 3-13=-96/285, 4-13=-279/351, 7-9=-852/0, 7-10=0/517, 6-10=-506/0, 6-11=-162/435

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 (=) MT20 unless otherwise indicated.
3) All bearings are assumed to be SP No.2 .
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

February 20,2025

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2FGE3	Floor Supported Gable	1	1	I71527201 Job Reference (optional)

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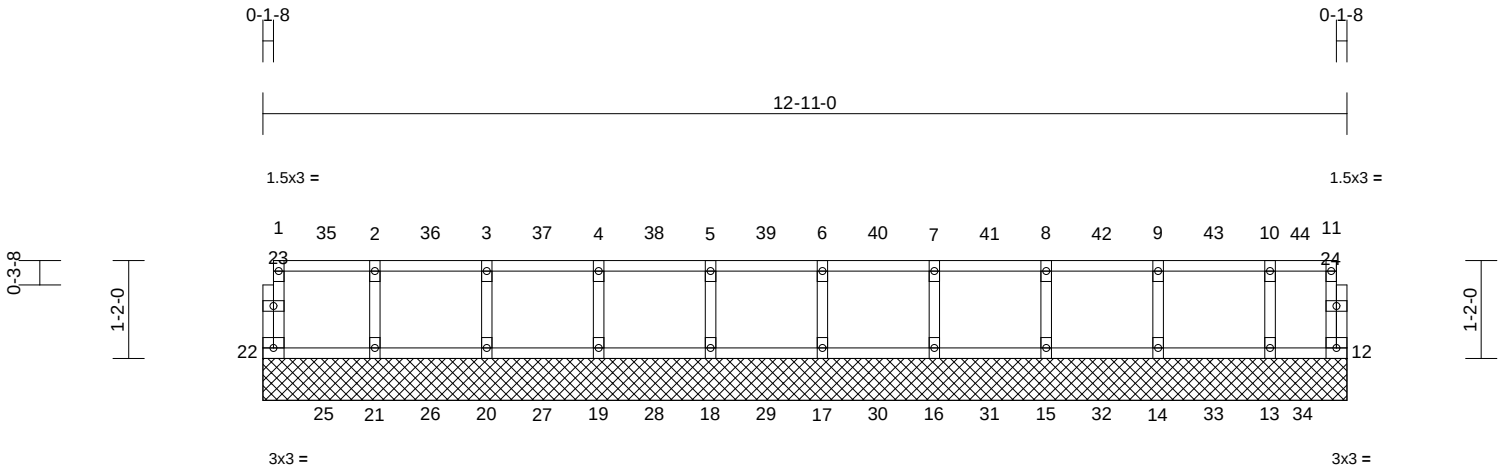

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	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)

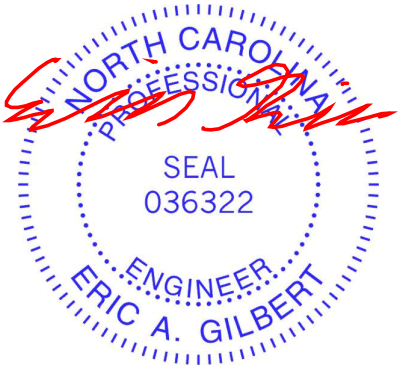
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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=-42 (LC 34), 13=-15 (LC 26), 15=-1 (LC 31), 21=-1 (LC 28), 22=-17 (LC 27)
Max Grav 12=260 (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=-257/23, 11-12=-250/47, 1-2=-24/6, 2-3=-24/6, 3-4=-24/6, 4-5=-24/6, 5-6=-24/6, 6-7=-24/6, 7-8=-24/6, 8-9=-24/6, 9-10=-24/6, 10-11=-24/6
BOT CHORD 21-22=-6/24, 20-21=-6/24, 19-20=-6/24, 18-19=-6/24, 17-18=-6/24, 16-17=-6/24, 15-16=-6/24, 14-15=-6/24, 13-14=-6/24, 12-13=-6/24
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.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) All bearings are assumed to be SP No.2 .
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, and 13. This connection is for uplift only and does not consider lateral forces.
7) 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.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 20,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F4	Floor	1	1	I71527202 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:28 Page: 1

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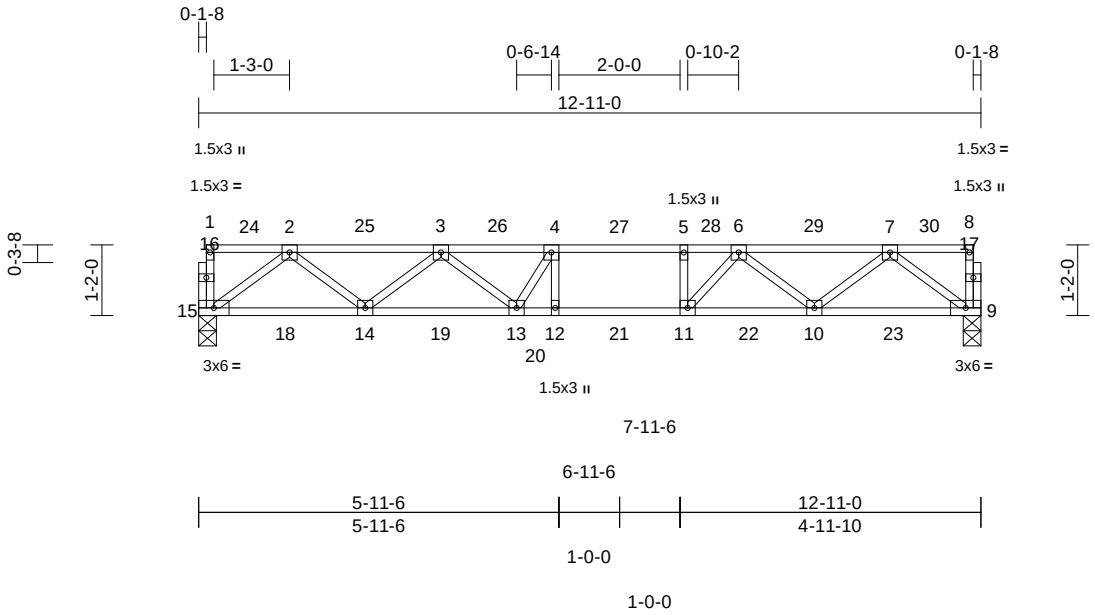

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.11	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	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)

BRACING

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

REACTIONS (size) 9=0-3-8, 15=0-3-8
Max Grav 9=552 (LC 1), 15=552 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-259/38, 8-9=-259/35, 1-2=-16/2, 2-3=-1087/0, 3-4=-1614/0, 4-5=-1650/0, 5-6=-1650/0, 6-7=-1078/0, 7-8=-15/2
BOT CHORD 14-15=0/679, 13-14=0/1468, 12-13=0/1650, 11-12=0/1650, 10-11=0/1467, 9-10=0/681
WEBS 4-12=-263/203, 5-11=-243/113, 2-15=-850/0, 2-14=0/530, 3-14=-496/0, 3-13=-96/285, 4-13=-279/351, 7-9=-852/0, 7-10=0/517, 6-10=-506/0, 6-11=-162/435

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 (=) MT20 unless otherwise indicated.
3) All bearings are assumed to be SP No.2 .
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

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F3	Floor	7	1	I71527203 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:27 Page: 1
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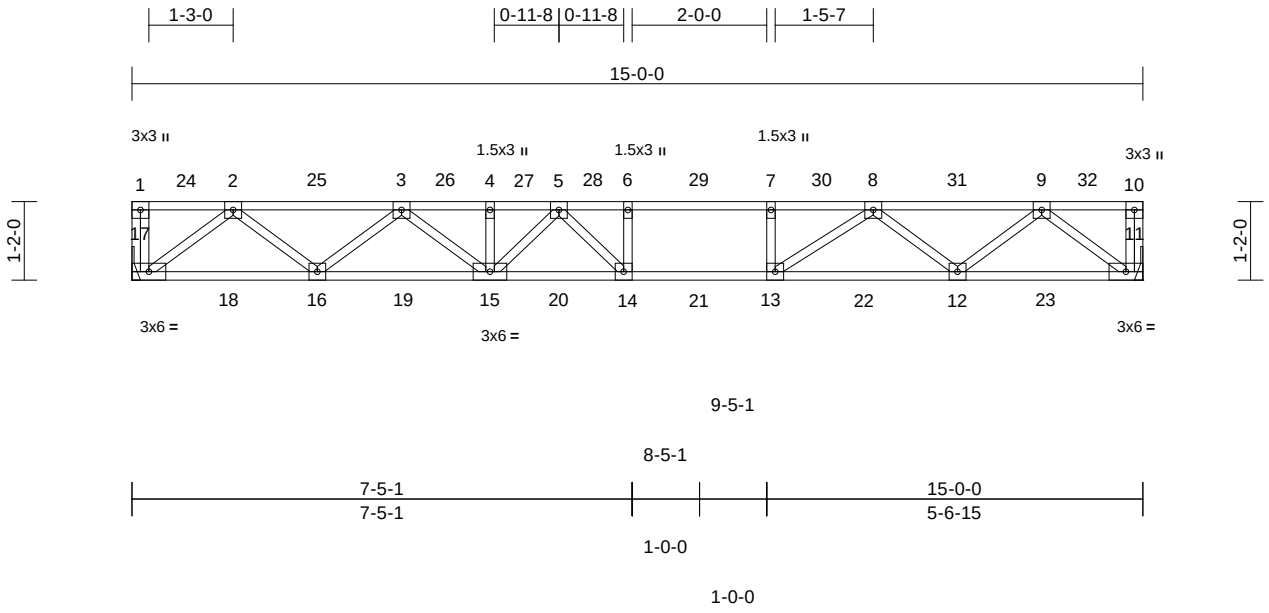

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.18	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.24	14-15	>741	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	11	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)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 11= Mechanical, 17= Mechanical
Max Grav 11=649 (LC 1), 17=649 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-259/34, 10-11=-259/34, 1-2=0/0, 2-3=-1314/0, 3-4=-2095/0, 4-5=-2095/0, 5-6=-2223/0, 6-7=-2223/0, 7-8=-2223/0, 8-9=-1304/0, 9-10=0/0
BOT CHORD 16-17=0/801, 15-16=0/1805, 14-15=0/2229, 13-14=0/2223, 12-13=0/1799, 11-12=0/802
WEBS 6-14=-168/183, 7-13=-258/63, 2-17=-1005/0, 2-16=0/667, 3-16=-639/0, 3-15=-58/382, 9-11=-1006/0, 9-12=0/653, 8-12=-645/0, 8-13=-58/644, 4-15=-233/83, 5-15=-262/119, 5-14=-314/284

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

February 20,2025

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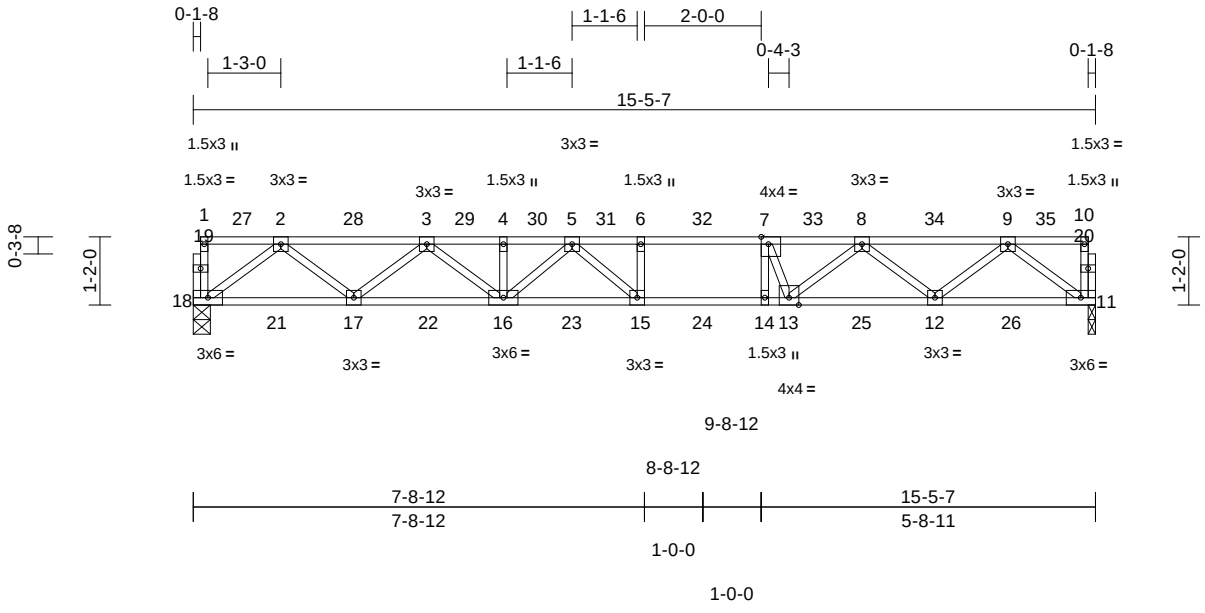
Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F5	Floor	4	1	I71527204 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:28 Page: 1

ID:c9xPocFMeYjLJuGMnxfuXeyFIoa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:39.5

Plate Offsets (X, Y): [7:0-1-8,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	0.59	Vert(LL)	-0.18	15-16	>989	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.24	15-16	>746	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 79 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 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 15-16.

REACTIONS (size) 11=0-1-8, 18=0-3-8
Max Grav 11=553 (LC 1), 18=553 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-258/38, 10-11=-258/39, 1-2=-15/2, 2-3=-1137/0, 3-4=-1832/0, 4-5=-1832/0, 5-6=-1976/0, 6-7=-1976/0, 7-8=-1837/0, 8-9=-1136/0, 9-10=-15/2
BOT CHORD 17-18=0/689, 16-17=0/1567, 15-16=0/1972, 14-15=0/1976, 13-14=0/1976, 12-13=0/1554, 11-12=0/694
WEBS 6-15=-166/147, 7-14=-298/365, 2-18=-863/0, 2-17=0/582, 3-17=-560/0, 3-16=-64/382, 9-11=-869/0, 9-12=0/576, 8-12=-544/0, 8-13=-45/433, 7-13=-518/331, 4-16=-240/75, 5-16=-274/121, 5-15=-290/254

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 .
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
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

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F6	Floor	7	1	I71527205 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:28 Page: 1
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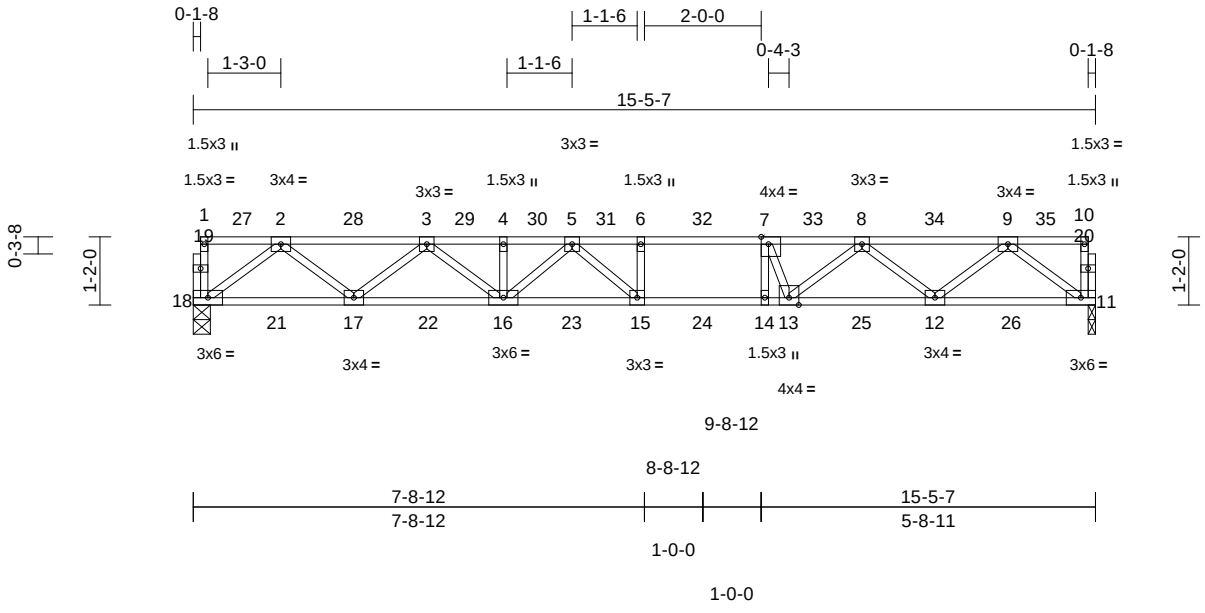

Scale = 1:39.5

Plate Offsets (X, Y): [7:0-1-8,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	0.60	Vert(LL)	-0.17	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.23	15-16	>801	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 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) 11=0-1-8, 18=0-3-8
Max Grav 11=664 (LC 1), 18=664 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-259/37, 10-11=-258/38, 1-2=-16/2, 2-3=-1363/0, 3-4=-2197/0, 4-5=-2197/0, 5-6=-2370/0, 6-7=-2370/0, 7-8=-2199/0, 8-9=-1363/0, 9-10=-15/2
BOT CHORD 17-18=0/826, 16-17=0/1880, 15-16=0/2363, 14-15=0/2370, 13-14=0/2370, 12-13=0/1864, 11-12=0/831
WEBS 6-15=-172/126, 7-14=-293/379, 2-18=-1034/0, 2-17=0/698, 3-17=-673/0, 3-16=-45/405, 9-11=-1041/0, 9-12=0/692, 8-12=-653/0, 8-13=-23/508, 7-13=-643/314, 4-16=-241/74, 5-16=-275/117, 5-15=-283/283

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP SS .
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
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

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2FGE2	Floor Supported Gable	1	1	I71527206 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:32 Page: 1
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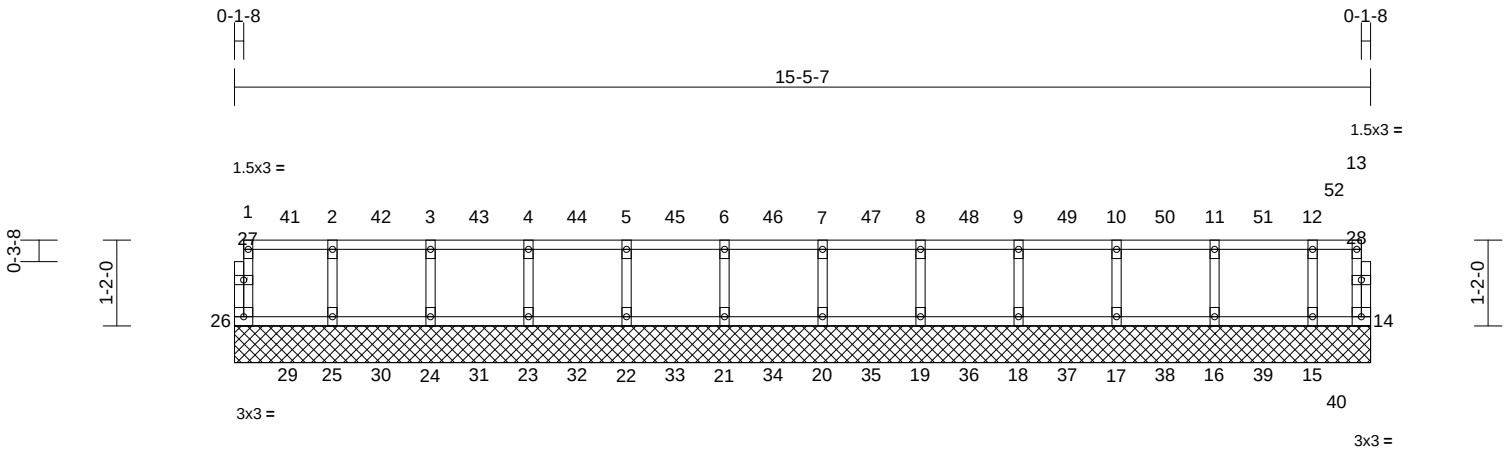


Scale = 1:31.3

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)

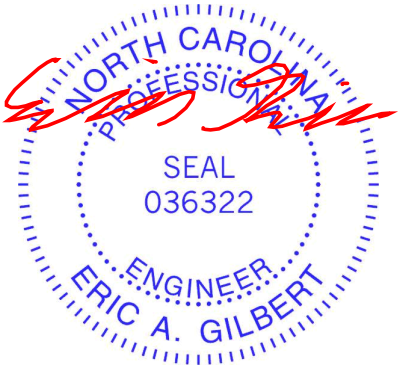
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 14=15-5-7, 15=15-5-7, 16=15-5-7, 17=15-5-7, 18=15-5-7, 19=15-5-7, 20=15-5-7, 21=15-5-7, 22=15-5-7, 23=15-5-7, 24=15-5-7, 25=15-5-7, 26=15-5-7
Max Uplift 14=-55 (LC 40), 15=-24 (LC 30), 17=-1 (LC 37), 25=-1 (LC 32), 26=-18 (LC 31)
Max Grav 14=258 (LC 54), 15=277 (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=285 (LC 43), 26=265 (LC 42)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-257/23, 13-14=-247/61, 1-2=-25/6, 2-3=-25/6, 3-4=-25/6, 4-5=-25/6, 5-6=-25/6, 6-7=-25/6, 7-8=-25/6, 8-9=-25/6, 9-10=-25/6, 10-11=-25/6, 11-12=-25/6, 12-13=-25/6
BOT CHORD 25-26=-6/25, 24-25=-6/25, 23-24=-6/25, 22-23=-6/25, 21-22=-6/25, 20-21=-6/25, 19-20=-6/25, 18-19=-6/25, 17-18=-6/25, 16-17=-6/25, 15-16=-6/25, 14-15=-6/25
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=-263/27

NOTES
1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 26, 55 lb uplift at joint 14, 1 lb uplift at joint 25, 1 lb uplift at joint 17 and 24 lb uplift at joint 15.
7) 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.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F2	Floor	1	1	I71527207 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:27 Page: 1

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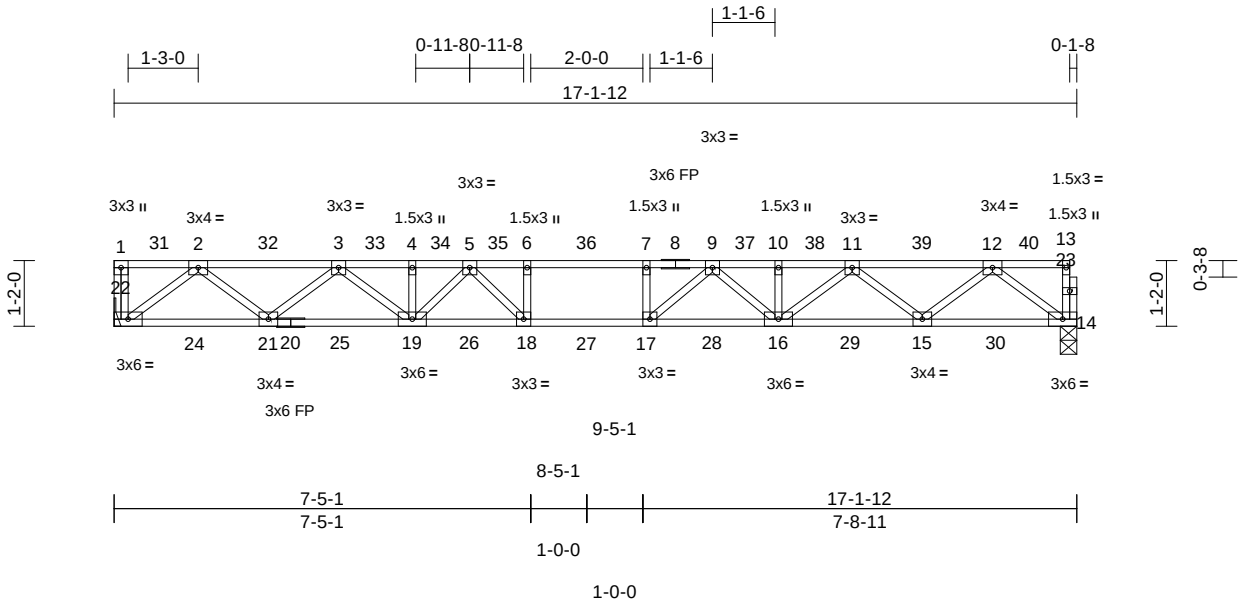


Scale = 1:41

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	0.60	Vert(LL)	-0.20	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.27	17-18	>741	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.05	14	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* 20-14:2x4 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) 14=0-3-8, 22= Mechanical
Max Grav 14=738 (LC 1), 22=743 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-259/33, 13-14=-259/37, 1-2=0/0, 2-3=-1553/0, 3-4=-2554/0, 4-5=-2554/0, 5-6=-2976/0, 6-7=-2976/0, 7-9=-2976/0, 9-10=-2558/0, 10-11=-2558/0, 11-12=-1552/0, 12-13=-16/2
BOT CHORD 21-22=0/926, 19-21=0/2150, 18-19=0/2792, 17-18=0/2976, 16-17=0/2821, 15-16=0/2152, 14-15=0/925
WEBS 6-18=-256/113, 7-17=-219/118, 2-22=-1162/0, 2-21=0/816, 3-21=-778/0, 3-19=-10/515, 12-14=-1159/0, 12-15=0/815, 11-15=-781/0, 11-16=-7/519, 4-19=-241/77, 10-16=-244/71, 5-19=-350/67, 5-18=-196/503, 9-16=-351/65, 9-17=-213/461

NOTES

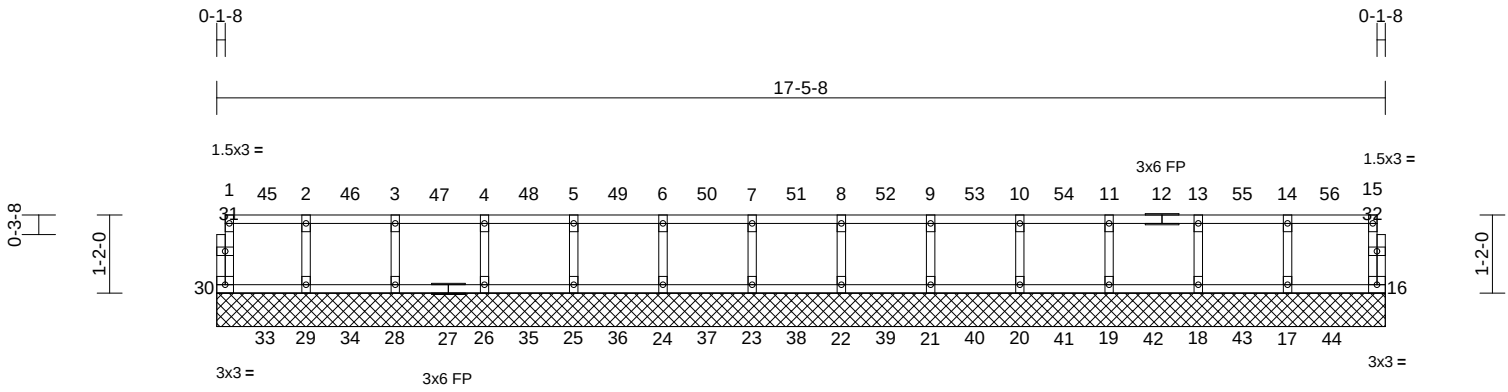
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 14 SP SS .
3) Refer to girder(s) for truss to truss connections.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all 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.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2FGE1	Floor Supported Gable	1	1	I71527208 Job Reference (optional)



Scale = 1:34.4

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)

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=-10 (LC 43), 18=-2 (LC 44), 25=-2 (LC 34), 29=-1 (LC 6), 30=-15 (LC 33)
Max Grav 16=267 (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=-257/21, 15-16=-259/17, 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
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=-273/12

NOTES
1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) All bearings are assumed to be SP No.2 .
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30, 16, 29, 26, 25, 24, 23, 22, 21, 20, 19, and 18. This connection is for uplift only and does not consider lateral forces.
7) 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.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F1	Floor	6	1	I71527209 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:26 Page: 1

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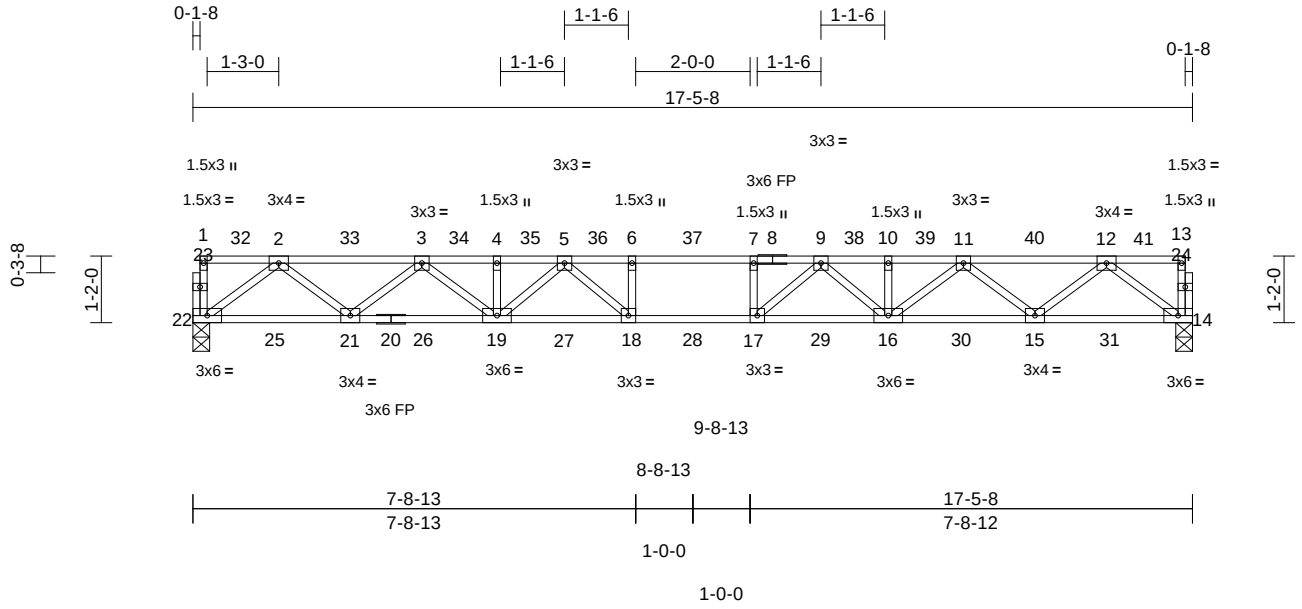


Scale = 1:40.2

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	0.60	Vert(LL)	-0.21	17-18	>977	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.29	17-18	>710	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 20-14:2x4 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) 14=0-3-8, 22=0-3-8
Max Grav 14=752 (LC 1), 22=752 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-259/37, 13-14=-259/37, 1-2=-16/2, 2-3=-1587/0, 3-4=-2625/0, 4-5=-2625/0, 5-6=-3088/0, 6-7=-3088/0, 7-9=-3088/0, 9-10=-2625/0, 10-11=-2625/0, 11-12=-1586/0, 12-13=-16/2
BOT CHORD 21-22=0/943, 19-21=0/2202, 18-19=0/2906, 17-18=0/3088, 16-17=0/2905, 15-16=0/2202, 14-15=0/943
WEBS 6-18=-233/113, 7-17=-234/113, 2-22=-1181/0, 2-21=0/837, 3-21=-801/0, 3-19=0/540, 12-14=-1182/0, 12-15=0/837, 11-15=-801/0, 11-16=0/540, 4-19=-244/71, 10-16=-244/71, 5-19=-375/57, 5-18=-201/496, 9-16=-374/57, 9-17=-200/497

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 22 SP No.2 , Joint 14 SP SS .
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

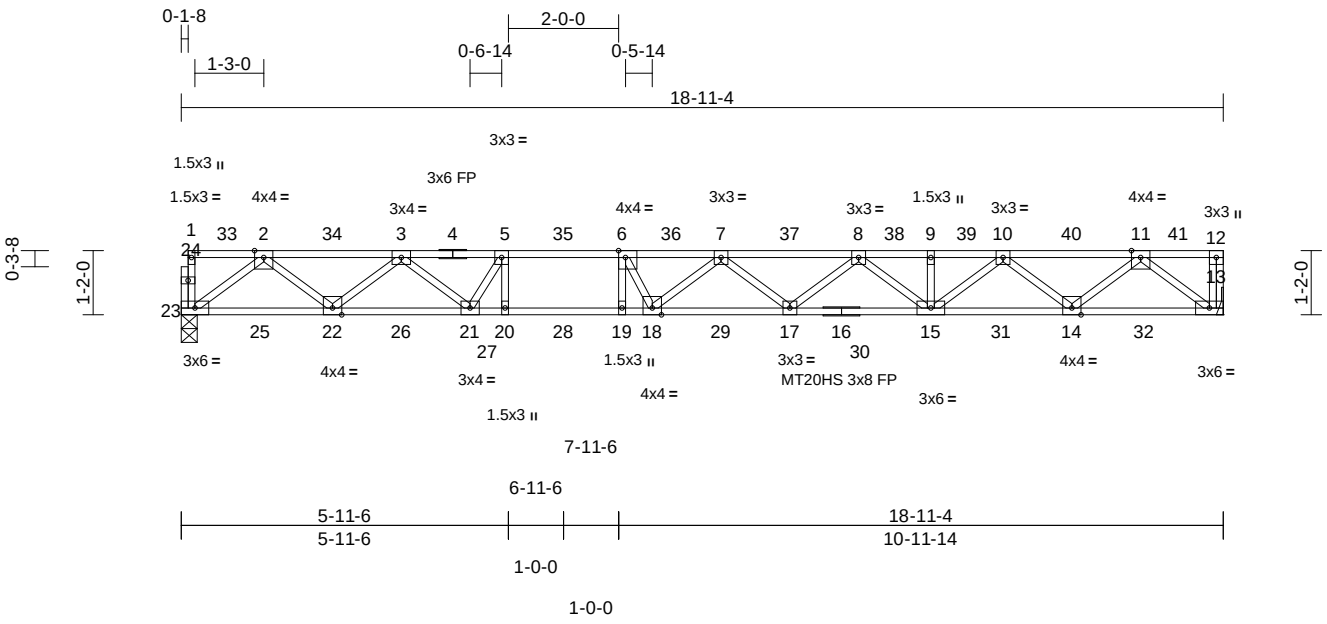
February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F10	Floor	3	1	I71527210 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:29 Page: 1

ID:Jo0lKDAzIPqLzpE0tz1FlAyFIoh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:41.9

Plate Offsets (X, Y): [6:0-1-8,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	0.82	Vert(LL)	-0.36	18-19	>623	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.50	18-19	>453	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 96 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 19-20.

REACTIONS (size) 13= Mechanical, 23=0-3-8
Max Grav 13=822 (LC 1), 23=817 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-258/40, 12-13=-259/34, 1-2=-15/2, 2-3=-1747/0, 3-5=-2946/0, 5-6=-3376/0, 6-7=-3600/0, 7-8=-3540/0, 8-9=-2944/0, 9-10=-2944/0, 10-11=-1749/0, 11-12=0/0

BOT CHORD 22-23=0/1036, 21-22=0/2420, 20-21=0/3376, 19-20=0/3376, 18-19=0/3376, 17-18=0/3713, 15-17=0/3352, 14-15=0/2443, 13-14=0/1029

WEBS 5-20=-105/542, 6-19=-575/66, 2-23=-1298/0, 2-22=0/926, 3-22=-875/0, 3-21=0/718, 5-21=-939/78, 11-13=-1291/0, 11-14=0/938, 10-14=-903/0, 10-15=0/640, 9-15=-260/61, 8-15=-520/5, 8-17=-55/321, 7-17=-277/124, 7-18=-284/162, 6-18=-97/667

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Bearings are assumed to be: Joint 23 SP SS .
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.
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.

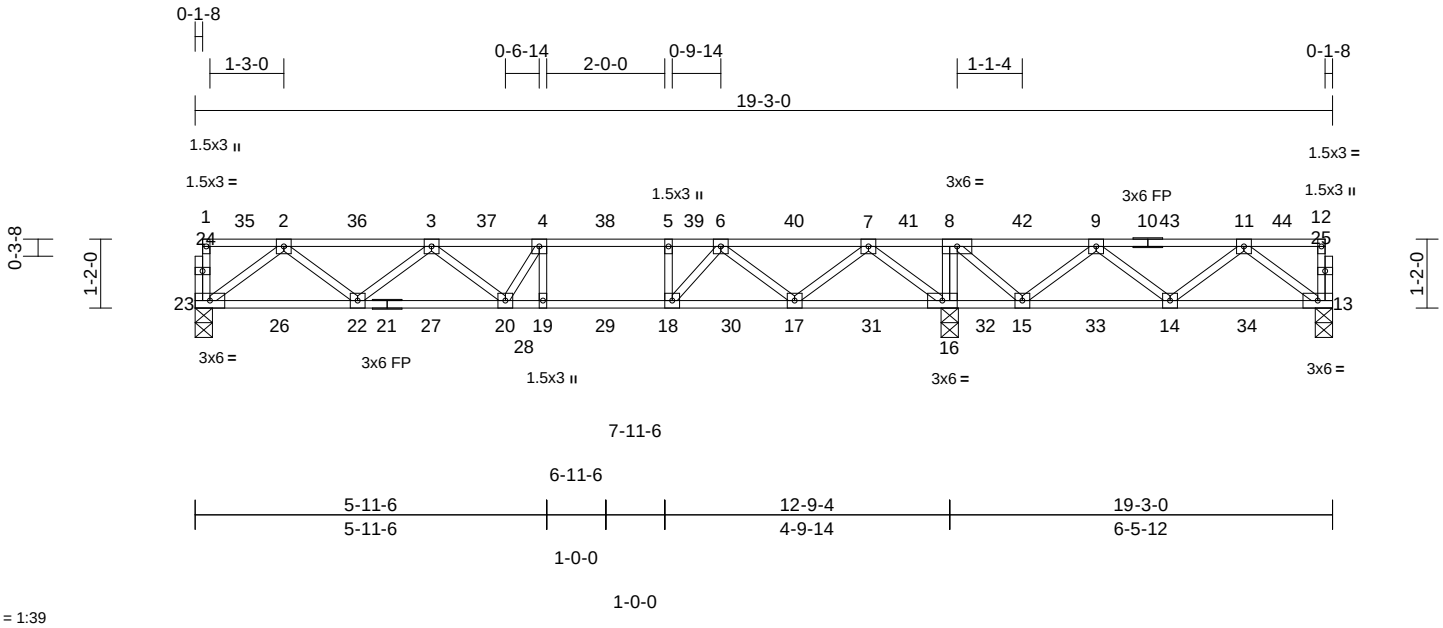
LOAD CASE(S) Standard

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F7	Floor	2	1	I71527211 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:29 Page: 1
ID:4LVn?yG_PsrCw2rZLeA73syFIoZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:39

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	0.60	Vert(LL)	-0.10	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.13	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	16	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 6-0-0 oc bracing.

REACTIONS (size) 13=0-3-8, 16=0-3-8, 23=0-3-8
Max Uplift 13=-50 (LC 38)
Max Grav 13=295 (LC 52), 16=1018 (LC 1), 23=496 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-260/37, 12-13=-259/40, 1-2=-16/2, 2-3=-947/0, 3-4=-1328/0, 4-5=-1284/0, 5-6=-1284/0, 6-7=-538/0, 7-8=0/759, 8-9=-103/540, 9-11=-375/201, 11-12=-16/2
BOT CHORD 22-23=0/603, 20-22=0/1267, 19-20=0/1284, 18-19=0/1284, 17-18=0/1009, 16-17=-284/236, 15-16=-759/0, 14-15=-346/315, 13-14=-83/288
WEBS 4-19=-288/149, 5-18=-292/60, 8-16=-452/0, 2-23=-755/0, 2-22=0/452, 3-22=-417/0, 3-20=-132/224, 4-20=-147/394, 7-16=-922/0, 7-17=0/599, 6-17=-628/0, 6-18=-44/512, 11-13=-361/105, 11-14=-153/205, 9-14=-87/226, 9-15=-466/0, 8-15=0/478

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 (=) MT20 unless otherwise indicated.
3) All bearings are assumed to be SP No.2 .
4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
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

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F8	Floor	10	1	I71527212 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:29 Page: 1

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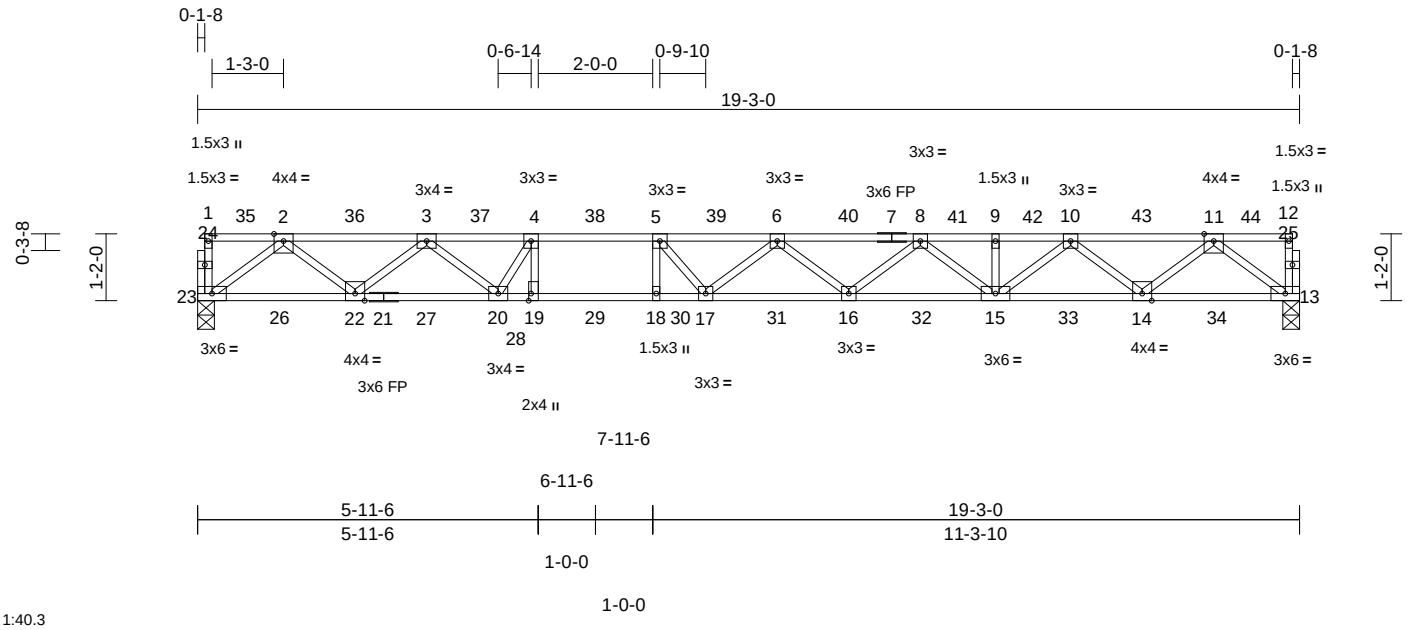

Scale = 1:40.3

Plate Offsets (X, Y): [19:0-1-8,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	0.89	Vert(LL)	-0.38	17-18	>595	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.53	17-18	>433	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	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 No.2(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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 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=-258/40, 12-13=-259/37, 1-2=-15/2, 2-3=-1782/0, 3-4=-3014/0, 4-5=-3475/0, 5-6=-3742/0, 6-8=-3642/0, 8-9=-3013/0, 9-10=-3013/0, 10-11=-1783/0, 11-12=-16/2

BOT CHORD 22-23=0/1055, 20-22=0/2469, 19-20=0/3475, 18-19=0/3475, 17-18=0/3475, 16-17=0/3840, 15-16=0/3435, 14-15=0/2494, 13-14=0/1046

WEBS 4-19=-94/588, 5-18=-462/46, 2-23=-1321/0, 2-22=0/946, 3-22=-894/0, 3-20=0/742, 4-20=-997/63, 11-13=-1311/0, 11-14=0/959, 10-14=-925/0, 10-15=0/663, 9-15=-260/62, 8-15=-538/0, 8-16=-46/331, 6-16=-298/109, 6-17=-255/159, 5-17=-91/576

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP DSS .
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

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F14	Floor	1	1	I71527213 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:31 Page: 1

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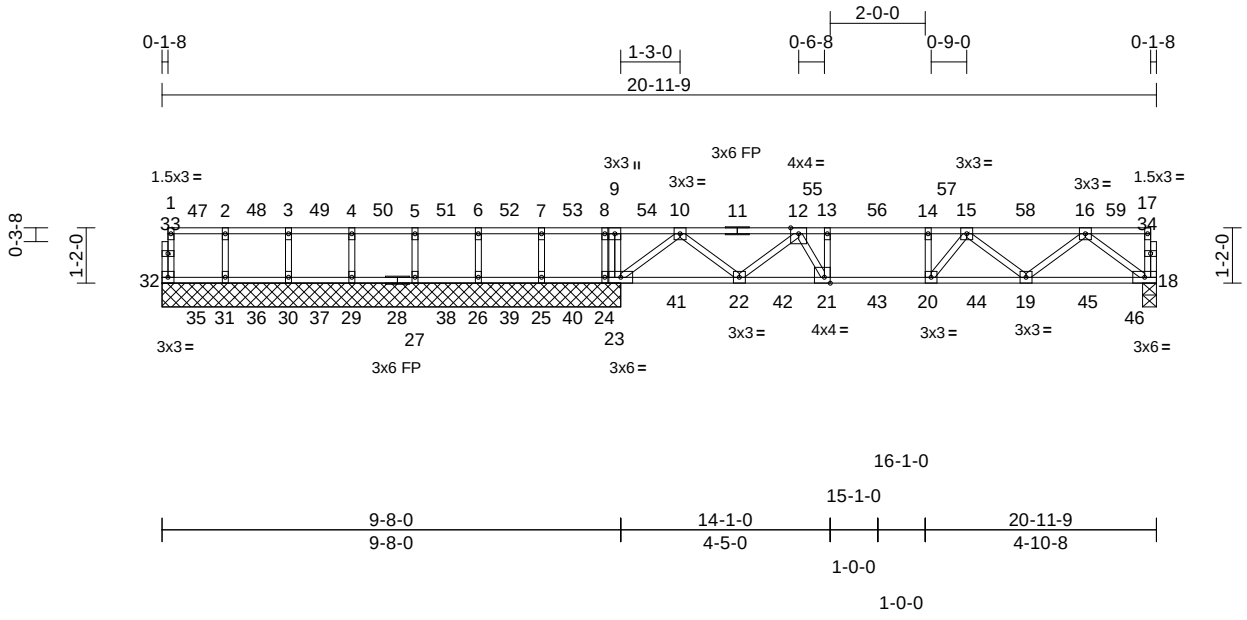

Scale = 1:48.6

Plate Offsets (X, Y): [21:0-1-8,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	0.63	Vert(LL)	-0.13	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.14	21-22	>989	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) *Except* 11-17:2x4 SP SS (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) 18=0-3-8, 23=9-8-0, 24=9-8-0, 25=9-8-0, 26=9-8-0, 27=9-8-0, 29=9-8-0, 30=9-8-0, 31=9-8-0, 32=9-8-0
Max Horiz 32=37 (LC 5)
Max Uplift 18=-212 (LC 8), 23=-56 (LC 60), 24=-565 (LC 62), 25=-6 (LC 58), 26=-6 (LC 57), 27=-6 (LC 56), 29=-6 (LC 55), 30=-9 (LC 54), 31=-3 (LC 56), 32=-14 (LC 23)
Max Grav 18=541 (LC 3), 23=921 (LC 62), 24=332 (LC 8), 25=281 (LC 73), 26=279 (LC 72), 27=280 (LC 71), 29=280 (LC 70), 30=279 (LC 69), 31=281 (LC 68), 32=262 (LC 67)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-32=-259/18, 17-18=-258/35, 1-2=-172/154, 2-3=-372/371, 3-4=-572/571, 4-5=-772/772, 5-6=-972/972, 6-7=-1172/1171, 7-8=-1372/1351, 8-9=-1404/1403, 9-10=-1610/1609, 10-12=-1525/1099, 12-13=-1268/339, 13-14=-1507/657, 14-15=-1589/779, 15-16=-987/346, 16-17=-178/197
BOT CHORD 31-32=-148/148, 30-31=-352/353, 29-30=-557/557, 27-29=-761/762, 26-27=-966/966, 25-26=-1170/1171, 24-25=-1375/1355, 23-24=-1407/1407, 22-23=-1252/1489, 21-22=-782/1538, 20-21=-683/1526, 19-20=-539/1360, 18-19=-285/679
WEBS 9-23=-394/278, 13-21=-582/550, 14-20=-470/450, 10-23=-898/464, 10-22=-352/605, 12-22=-661/448, 12-21=-798/863, 16-18=-851/358, 16-19=-336/593, 15-19=-637/453, 15-20=-748/796, 2-31=-270/12, 3-30=-268/14, 4-29=-269/13, 5-27=-269/14, 6-26=-269/14, 7-25=-269/14, 8-24=-299/250

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 24.
7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32, 23, 18, 31, 30, 29, 27, 26, and 25. This connection is for uplift only and does not consider lateral forces.
8) 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.
9) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-6-1 for 153.3 plf.
10) 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.
11) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F13	Floor	4	1	I71527214 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:30 Page: 1
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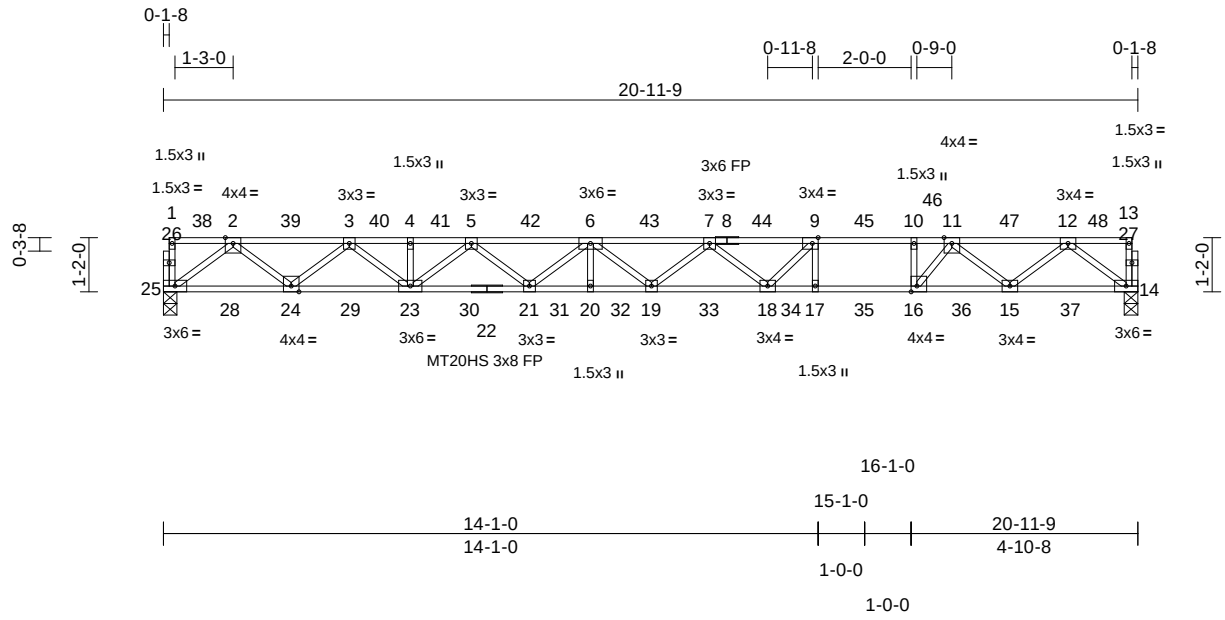

Scale = 1:49.6

Plate Offsets (X, Y): [9:0-1-8,Edge], [16:0-1-8,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	0.67	Vert(LL)	-0.42	17-18	>586	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.58	17-18	>426	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 106 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(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 6-0-0 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=755 (LC 1), 25=755 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-25=-258/38, 13-14=-256/37, 1-2=-15/2, 2-3=-1645/0, 3-4=-2822/0, 4-5=-2822/0, 5-6=-3497/0, 6-7=-3744/0, 7-9=-3489/0, 9-10=-3001/0, 10-11=-3001/0, 11-12=-1600/0, 12-13=-15/2
BOT CHORD 24-25=0/955, 23-24=0/2312, 21-23=0/3263, 20-21=0/3727, 19-20=0/3727, 18-19=0/3775, 17-18=0/3001, 16-17=0/3001, 15-16=0/2369, 14-15=0/946
WEBS 9-17=-426/21, 10-16=-571/0, 2-25=-1196/0, 2-24=0/898, 3-24=-869/0, 3-23=0/651, 4-23=-252/72, 5-23=-563/0, 5-21=-34/337, 6-21=-322/157, 6-20=-67/258, 6-19=-184/285, 7-19=-215/179, 7-18=-425/34, 9-18=0/770, 12-14=-1185/0, 12-15=0/852, 11-15=-1001/0, 11-16=0/1113

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All bearings are assumed to be SP DSS .
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

February 20,2025

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neill's Creek Lot 00.0056 OWF
2502-2109-A	2F13A	Floor	2	1	I71527215 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 1 2025 Print: 8.830 S Feb 1 2025 MiTek Industries, Inc. Wed Feb 19 15:03:31 Page: 1
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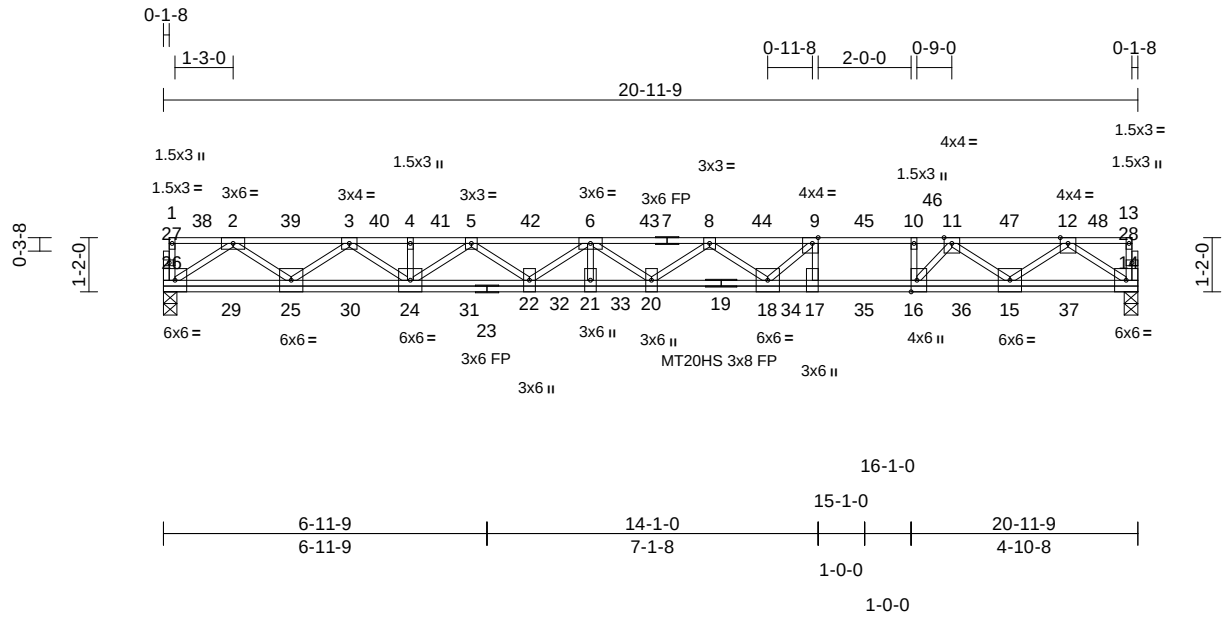


Scale = 1:49.6

Plate Offsets (X, Y): [9:0-1-8,Edge], [16:0-3-0,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)	-0.42	18-20	>593	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.57	18-20	>431	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP No.2(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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 14=0-3-8, 26=0-3-8
Max Grav 14=906 (LC 1), 26=906 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-259/37, 13-14=-258/36, 1-2=0/0, 2-3=-2021/0, 3-4=-3509/0, 4-5=-3509/0, 5-6=-4352/0, 6-8=-4646/0, 8-9=-4420/0, 9-10=-3710/0, 10-11=-3710/0, 11-12=-1941/0, 12-13=0/0
BOT CHORD 25-26=0/1229, 24-25=0/2870, 22-24=0/4062, 21-22=0/4703, 20-21=0/4703, 18-20=0/4678, 17-18=0/3710, 16-17=0/3710, 15-16=0/3039, 14-15=0/1194
WEBS 9-17=-836/0, 10-16=-295/54, 2-26=-1464/0, 2-25=0/1009, 3-25=-1078/0, 3-24=0/797, 4-24=-250/76, 5-24=-690/0, 5-22=-22/368, 6-22=-439/97, 6-21=-12/286, 6-20=-230/216, 8-20=-213/186, 8-18=-382/71, 9-18=0/1084, 12-14=-1421/0, 12-15=0/954, 11-15=-1395/0, 11-16=0/1137

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All bearings are assumed to be SP DSS .
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.

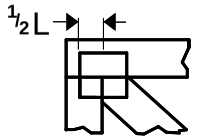
LOAD CASE(S) Standard

February 20,2025

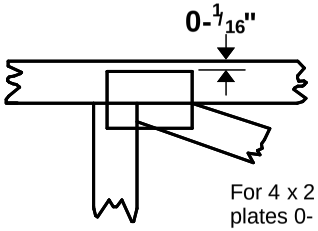
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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.

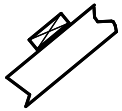
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

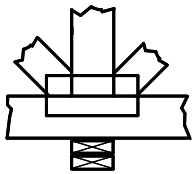
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

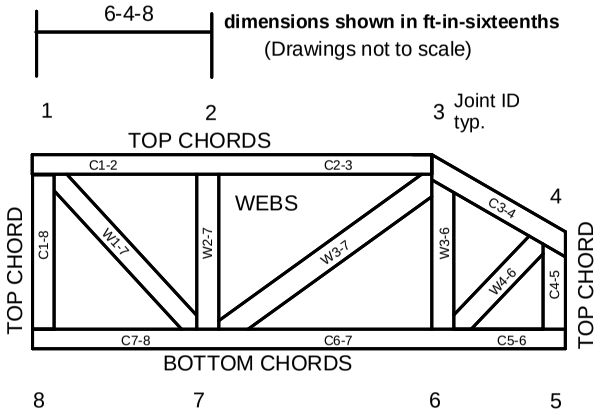


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.