

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: P-9558-1
Larson / Cool Meadow-Floor

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

Pages or sheets covered by this seal: I57964335 thru I57964344

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



April 26, 2023

Gilbert, Eric

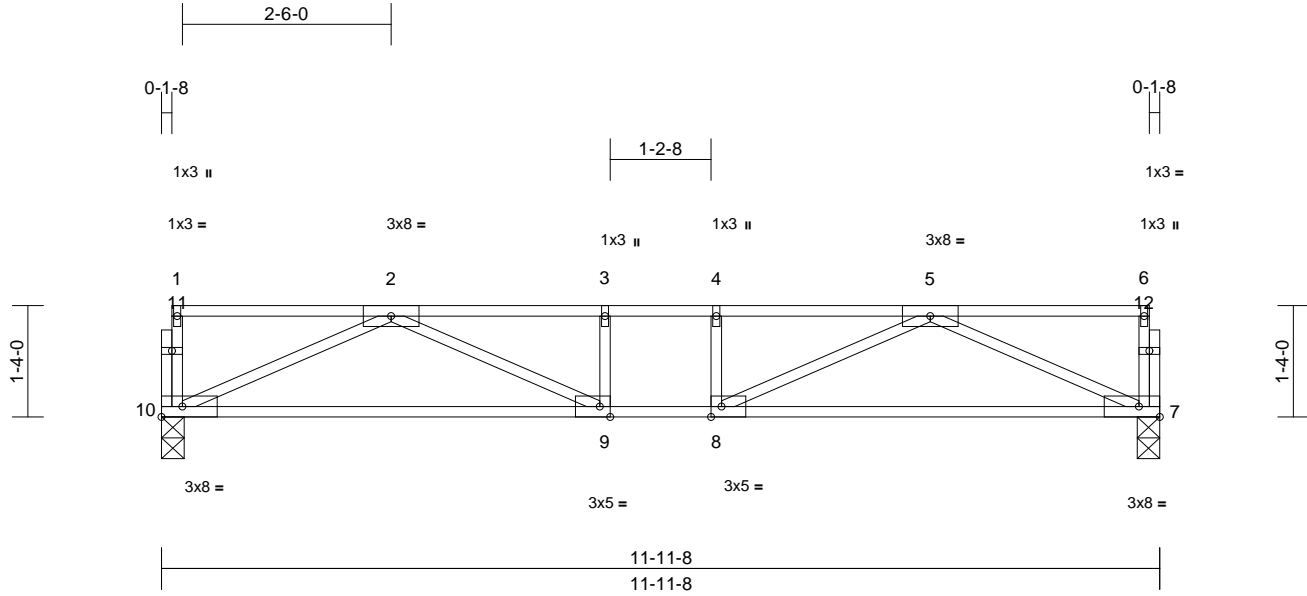
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job P-9558-1	Truss F11	Truss Type Floor Girder	Qty 1	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	157964335
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:09
ID:KY1JrM5kiZZgng4hAwC2yvzTW3a-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.12	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.23	9-10	>599	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-3-4, 10=0-3-4
Max Grav 7=1449 (LC 1), 10=1449 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-242/0, 6-7=-242/0, 1-2=-13/0,
2-3=-3564/0, 3-4=-3564/0, 4-5=-3564/0,
5-6=-13/0

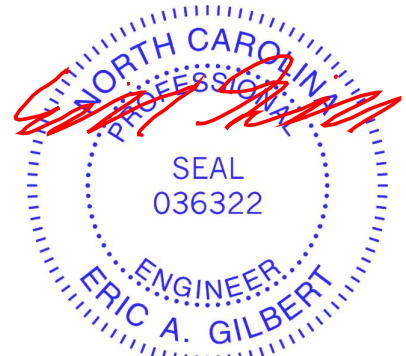
BOT CHORD 9-10=0/2582, 8-9=0/3564, 7-8=0/2582
WEBS 5-7=-2829/0, 2-10=-2829/0, 5-8=0/1160,
2-9=0/1160, 3-9=-428/0, 4-8=-428/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S)

- Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-240



April 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

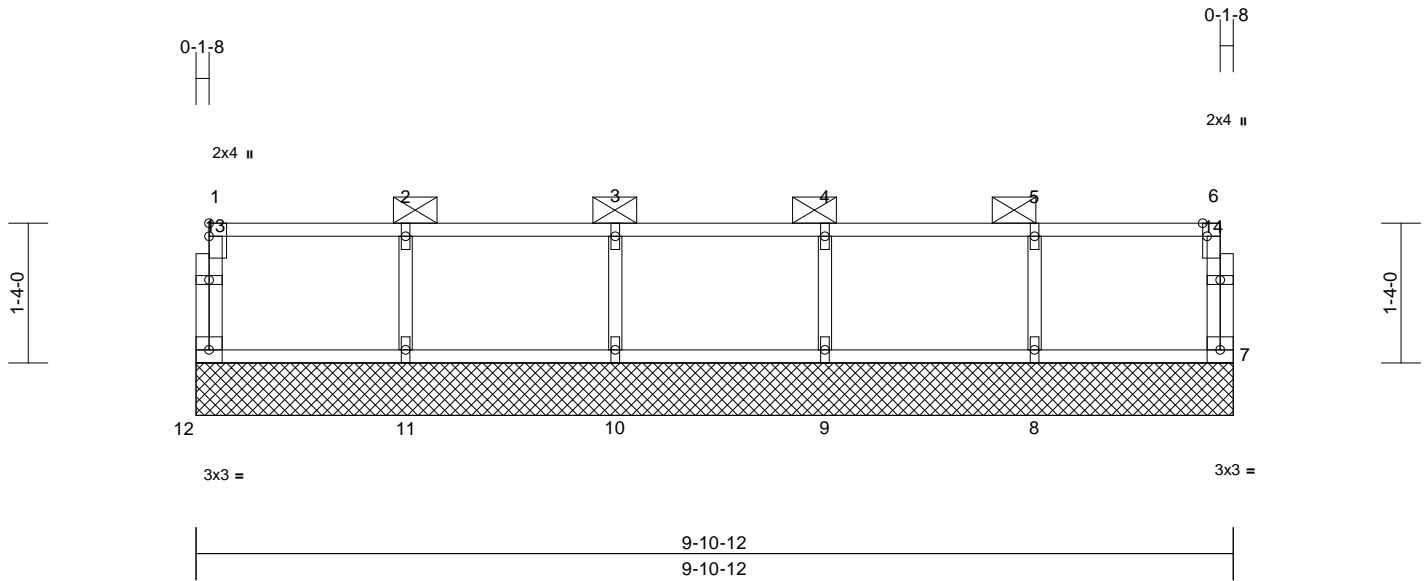
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F10	Truss Type Floor Supported Gable	Qty 1	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	157964336
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:09
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Page: 1



Scale = 1:22

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

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 41 lb	FT = 20%F, 11%E

LUMBER

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

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.

LOAD CASE(S) Standard

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

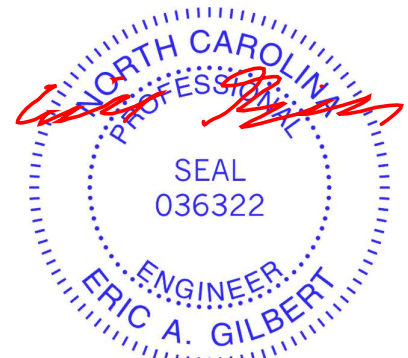
REACTIONS (size) 7=9-10-12, 8=9-10-12, 9=9-10-12, 10=9-10-12, 11=9-10-12, 12=9-10-12
Max Grav 7=130 (LC 1), 8=315 (LC 1), 9=334 (LC 1), 10=330 (LC 1), 11=328 (LC 1), 12=136 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-12=-124/0, 6-7=-117/0, 1-2=-31/0, 2-3=-31/0, 3-4=-31/0, 4-5=-31/0, 5-6=-31/0
BOT CHORD 11-12=0/31, 10-11=0/31, 9-10=0/31, 8-9=0/31, 7-8=0/31
WEBS 2-11=-299/0, 3-10=-300/0, 4-9=-303/0, 5-8=-289/0

NOTES

- All plates are 1x3 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 2-0-0 oc.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 26, 2023

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

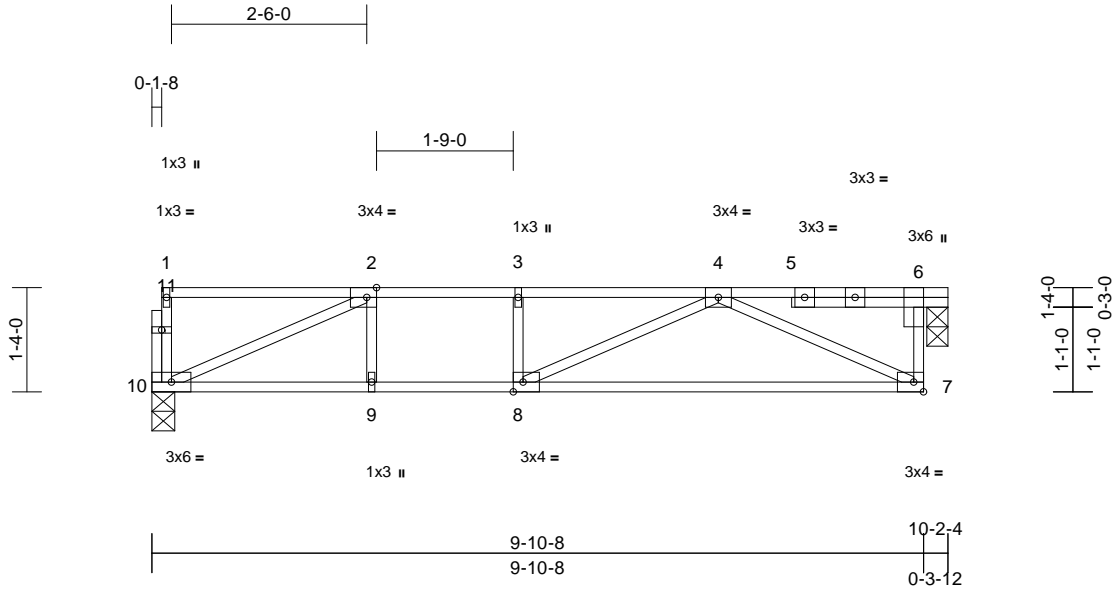
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F9	Truss Type Floor	Qty 2	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	157964337
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:08
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Page: 1



Scale = 1:29.5

Plate Offsets (X, Y): [2:0-1-8,Edge], [8:0-1-8,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)	-0.15	7-8	>759	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.24	7-8	>479	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.02	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 6=0-3-4, 10=0-3-8
 Max Grav 6=426 (LC 1), 10=421 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-10=-84/14, 6-7=0/348, 1-2=-4/1, 2-3=-808/0, 3-4=-808/0, 4-6=-2/0
 BOT CHORD 9-10=0/808, 8-9=0/808, 7-8=0/688
 WEBS 4-7=-760/0, 2-10=-882/0, 4-8=0/242, 2-9=0/98, 3-8=-67/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 26, 2023

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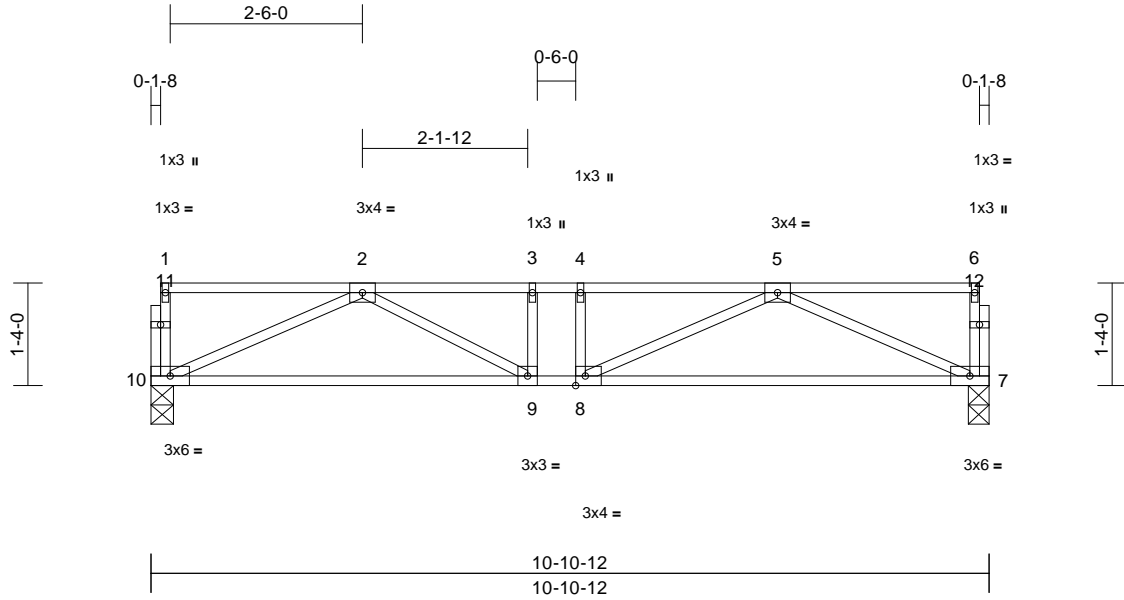
818 Soundside Road
 Edenton, NC 27932

Job P-9558-1	Truss F8	Truss Type Floor	Qty 3	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	157964338
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:08
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Page: 1



Scale = 1:30

Plate Offsets (X, Y): [8:0-1-8,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	0.32	Vert(LL)	-0.05	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.10	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 7=0-3-4, 10=0-3-8
 Max Grav 7=463 (LC 1), 10=463 (LC 1)

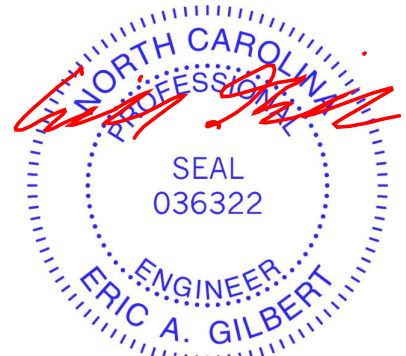
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-10=-83/0, 6-7=-80/0, 1-2=-4/0,
 2-3=-1057/0, 3-4=-1057/0, 4-5=-1057/0,
 5-6=-4/0

BOT CHORD 9-10=0/796, 8-9=0/1057, 7-8=0/798
 WEBS 5-7=-874/0, 2-10=-872/0, 5-8=0/338,
 2-9=0/351, 3-9=-109/0, 4-8=-104/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 26, 2023

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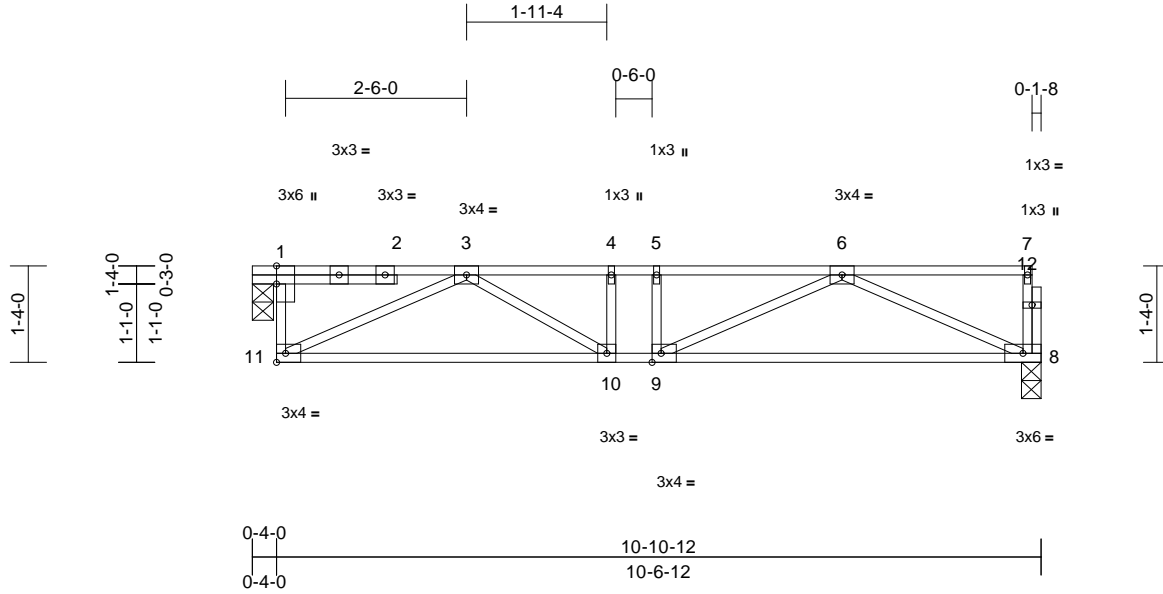
818 Soundside Road
 Edenton, NC 27932

Job P-9558-1	Truss F7	Truss Type Floor	Qty 4	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	I57964339
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:08
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Page: 1



Scale = 1:31.8

Plate Offsets (X, Y): [1:0-3-0,Edge], [9:0-1-8,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	0.32	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.10	8-9	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 1=0-3-8, 8=0-3-4

Max Grav 1=456 (LC 1), 8=451 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-11=0/367, 7-8=-80/0, 1-3=-3/0, 3-4=-1002/0, 4-5=-1002/0, 5-6=-1002/0, 6-7=-4/0
- BOT CHORD 10-11=0/749, 9-10=0/1002, 8-9=0/772
- WEBS 6-8=-845/0, 3-11=-828/0, 6-9=0/310, 3-10=0/342, 4-10=-118/0, 5-9=-92/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 26, 2023

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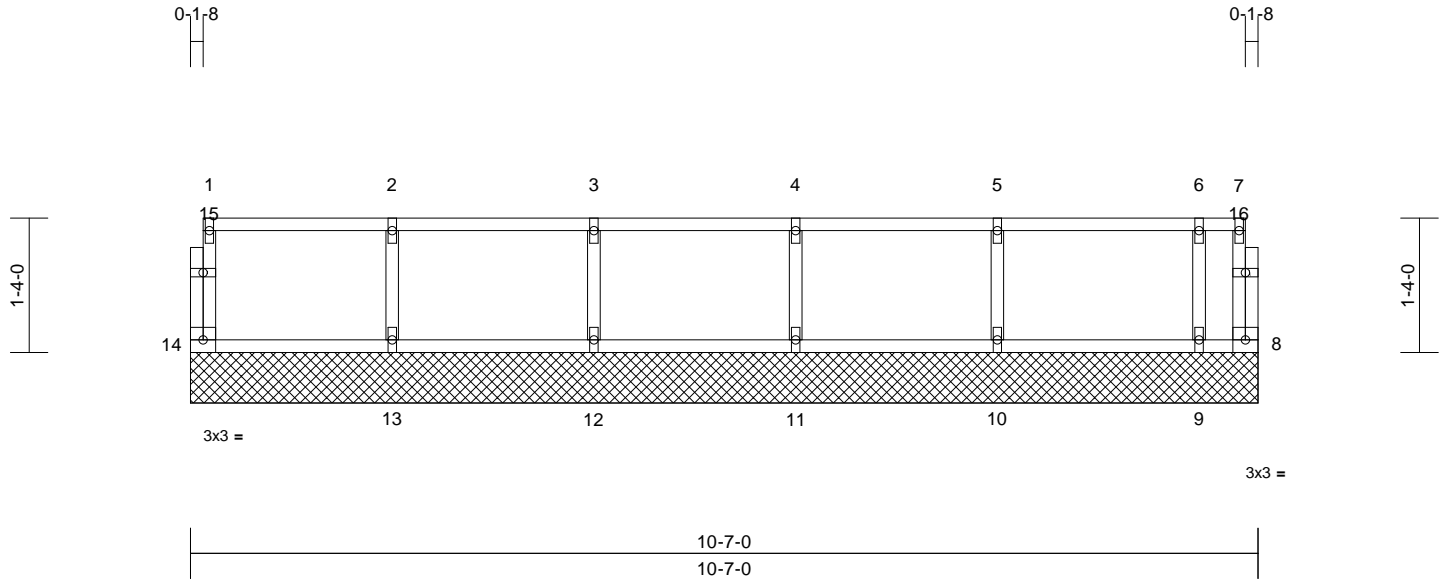
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F6	Truss Type Floor Supported Gable	Qty 1	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	157964340
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:08
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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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 45 lb	FT = 20%F, 11%E

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

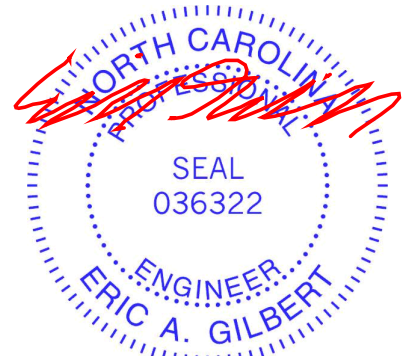
BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (size) 8=10-7-0, 9=10-7-0, 10=10-7-0, 11=10-7-0, 12=10-7-0, 13=10-7-0, 14=10-7-0
Max Grav 8=1 (LC 1), 9=118 (LC 1), 10=182 (LC 1), 11=174 (LC 1), 12=176 (LC 1), 13=179 (LC 1), 14=69 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-64/0, 7-8=0/19, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0
BOT CHORD 13-14=0/12, 12-13=0/12, 11-12=0/12, 10-11=0/12, 9-10=0/12, 8-9=0/12
WEBS 2-13=-161/0, 3-12=-160/0, 4-11=-159/0, 5-10=-165/0, 6-9=-127/0

NOTES
1) All plates are 1x3 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 2'-0" oc.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" 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



April 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



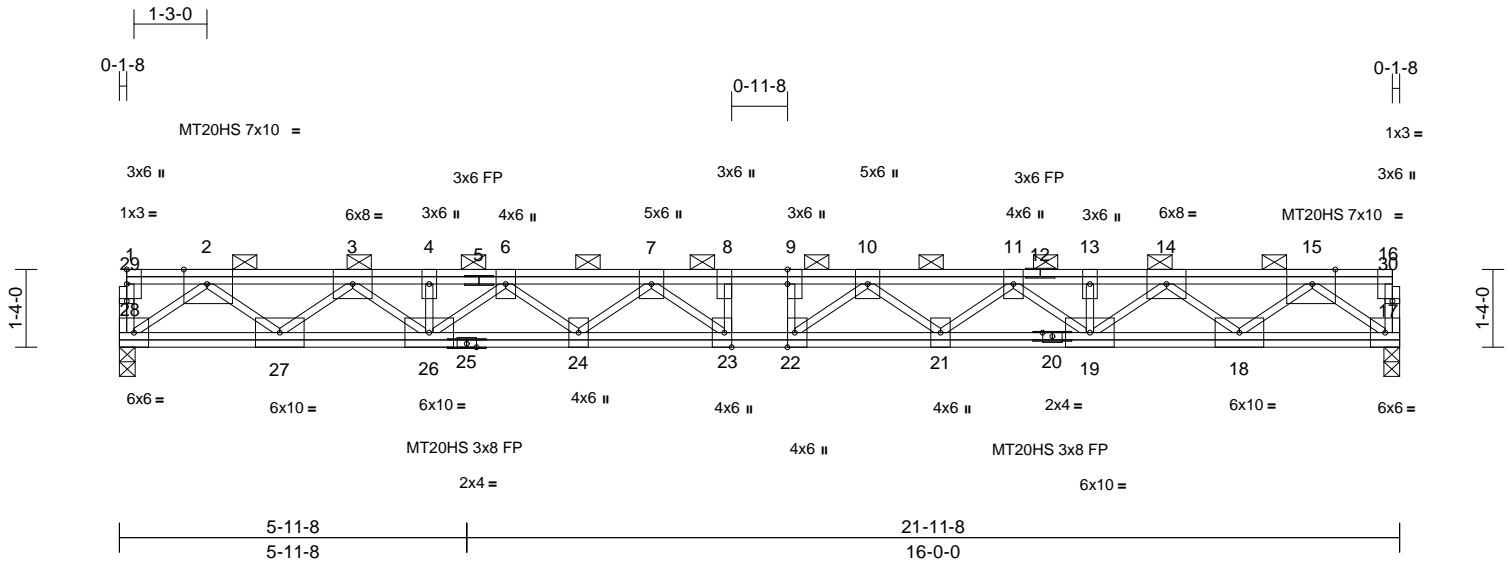
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F5	Truss Type Floor Girder	Qty 1	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	I57964341
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:07
ID:cTD7CQK85i9OGEvddGbp16zTW5s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



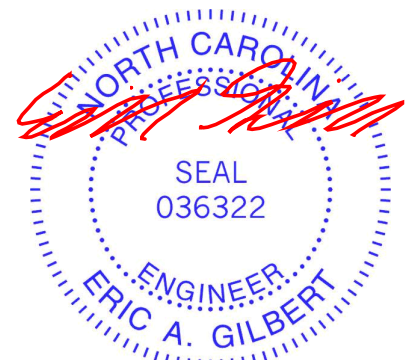
Scale = 1:39.5
Plate Offsets (X, Y): [2:0-4-12,Edge], [9:0-3-0,Edge], [15:0-4-12,Edge], [22:0-3-0,Edge], [23:0-3-0,Edge]

Loading	(psf)	Spacing	3-6-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.45	22-23	>580	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.61	22-23	>422	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.07	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								
										Weight: 175 lb	FT = 20%F, 11%E	

LUMBER
TOP CHORD 2x4 SP DSS(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat) *Except* 18-15,27-2:2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)
BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-16 (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 17=0-3-4, 28=0-3-4
Max Grav 17=2077 (LC 1), 28=2077 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-28=-76/0, 16-17=-76/0, 1-2=0/0, 2-3=-4231/0, 3-4=-7410/0, 4-6=-7410/0, 6-7=-9335/0, 7-8=-10214/0, 8-9=-10214/0, 9-10=-10214/0, 10-11=-9335/0, 11-13=-7410/0, 13-14=-7410/0, 14-15=-4231/0, 15-16=0/0
BOT CHORD 27-28=0/2536, 26-27=0/6018, 24-26=0/8626, 23-24=0/9989, 22-23=0/10214, 21-22=0/9989, 19-21=0/8626, 18-19=0/6018, 17-18=0/2536
WEBS 15-17=-3135/0, 2-28=-3135/0, 15-18=0/2249, 2-27=0/2249, 14-18=-2364/0, 3-27=-2364/0, 14-19=0/1805, 13-19=-115/0, 3-26=0/1805, 4-26=-115/0, 11-19=-1577/0, 6-26=-1577/0, 11-21=0/938, 6-24=0/938, 10-21=-881/0, 7-24=-881/0, 10-22=-440/947, 7-23=-440/947, 8-23=-395/128, 9-22=-395/128

- The Fabrication Tolerance at joint 25 = 11%, joint 20 = 11%
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.



April 26, 2023

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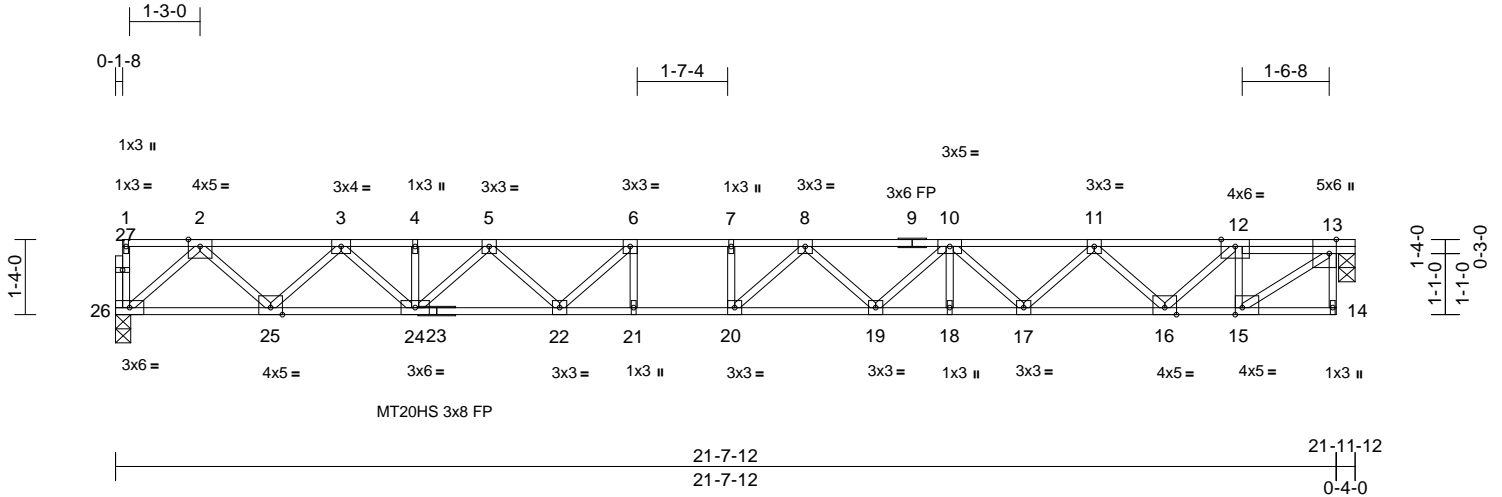
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F3	Truss Type Floor	Qty 4	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	I57964342
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:07
ID:y3D6Ksg85nnsnP6oTbDz4VzTVYZ-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.9

Plate Offsets (X, Y): [13:0-3-0,Edge], [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)	-0.38	19-20	>678	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.52	19-20	>491	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								
											Weight: 117 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 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: 20-21,19-20.

REACTIONS (size) 13=0-3-8, 26=0-3-4
Max Grav 13=943 (LC 1), 26=939 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-28/0, 13-14=0/7, 1-2=-1/0,
2-3=-1773/0, 3-4=-3065/0, 4-5=-3065/0,
5-6=-3833/0, 6-7=-4143/0, 7-8=-4143/0,
8-10=-3912/0, 10-11=-3160/0,
11-12=-1977/0, 12-13=-1232/0
BOT CHORD 25-26=0/1026, 24-25=0/2498, 22-24=0/3545,
21-22=0/4143, 20-21=0/4143, 19-20=0/4128,
18-19=0/3646, 17-18=0/3646, 16-17=0/2676,
15-16=0/1230, 14-15=0/0
WEBS 12-15=-832/0, 13-15=0/1492, 12-16=0/1016,
2-26=-1364/0, 11-16=-971/0, 2-25=0/1040,
11-17=0/674, 3-25=-1008/0, 10-17=-660/0,
10-18=-27/22, 3-24=0/771, 4-24=-57/0,
10-19=0/362, 5-24=-653/0, 8-19=-350/0,
5-22=0/495, 8-20=-280/395, 6-22=-615/0,
6-21=-101/186, 7-20=-167/74

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 unless otherwise indicated.
3) All plates are 3x3 MT20 unless otherwise indicated.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



April 26, 2023

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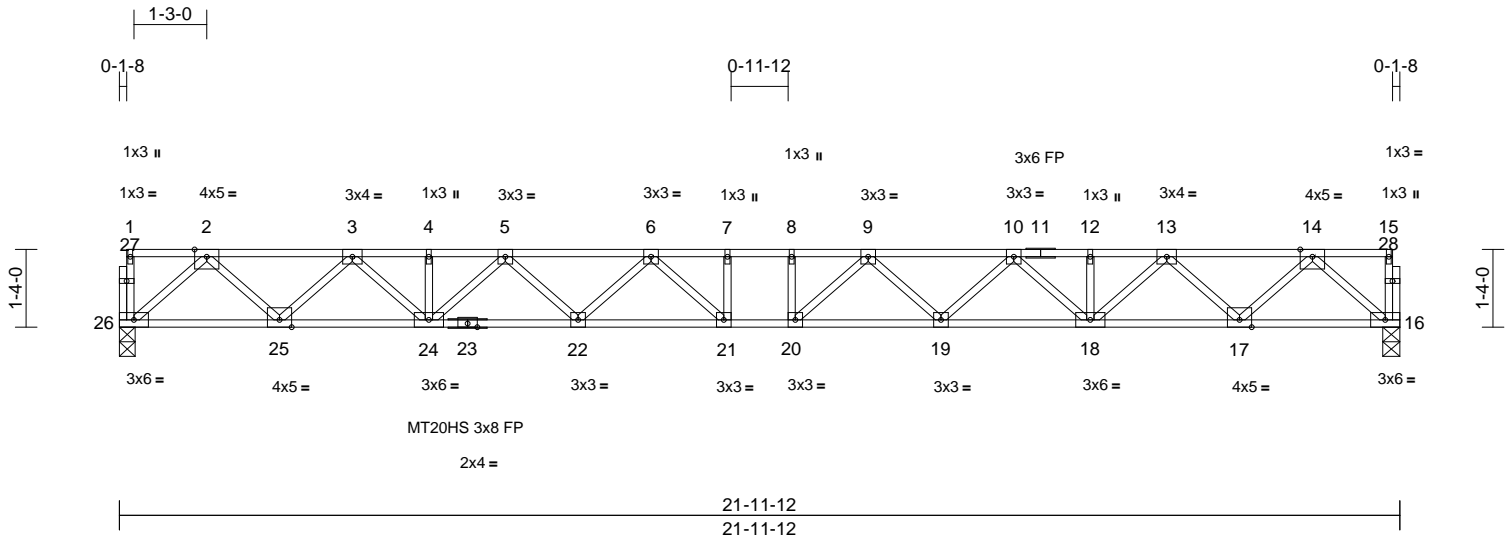
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F4	Truss Type Floor	Qty 7	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional) I57964343
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:07
ID:y3D6Ksg85nnsnP6oTBdZ4VzTVYZ-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?#

Page: 1



Scale = 1:39.5

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.38	20-21	>680	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.53	20-21	>495	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.09	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								Weight: 117 lb FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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) 16=0-3-8, 26=0-3-4
Max Grav 16=950 (LC 1), 26=950 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-28/0, 15-16=-28/0, 1-2=-1/0, 2-3=-1799/0, 3-4=-3113/0, 4-5=-3113/0, 5-6=-3909/0, 6-7=-4274/0, 7-8=-4274/0, 8-9=-4274/0, 9-10=-3909/0, 10-12=-3113/0, 12-13=-3113/0, 13-14=-1799/0, 14-15=-1/0
BOT CHORD 25-26=0/1039, 24-25=0/2536, 22-24=0/3616, 21-22=0/4179, 20-21=0/4274, 19-20=0/4179, 18-19=0/3616, 17-18=0/2536, 16-17=0/1039
WEBS 14-16=-1382/0, 2-26=-1382/0, 14-17=0/1057, 2-25=0/1057, 13-17=-1024/0, 3-25=-1024/0, 13-18=0/785, 12-18=-54/0, 3-24=0/785, 4-24=-54/0, 10-18=-683/0, 5-24=-683/0, 10-19=0/407, 5-22=0/407, 9-19=-382/0, 6-22=-382/0, 9-20=-196/423, 6-21=-196/423, 7-21=-195/68, 8-20=-195/68

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 1x3 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 23 = 11%
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 26, 2023

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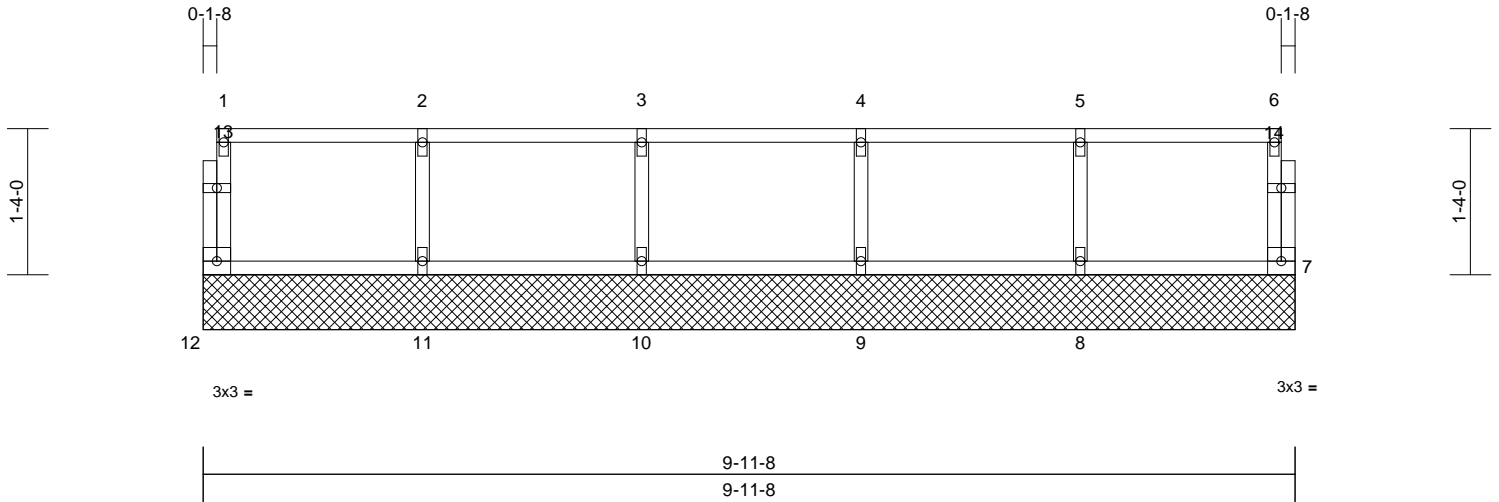
818 Soundside Road
Edenton, NC 27932

Job P-9558-1	Truss F1	Truss Type Floor Supported Gable	Qty 1	Ply 1	Larson / Cool Meadow-Floor Job Reference (optional)	157964344
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Tue Apr 25 09:44:05
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Page: 1



Scale = 1:21

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 42 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 7=9-11-8, 8=9-11-8, 9=9-11-8, 10=9-11-8, 11=9-11-8, 12=9-11-8
Max Grav 7=72 (LC 1), 8=171 (LC 1), 9=177 (LC 1), 10=176 (LC 1), 11=174 (LC 1), 12=73 (LC 1)

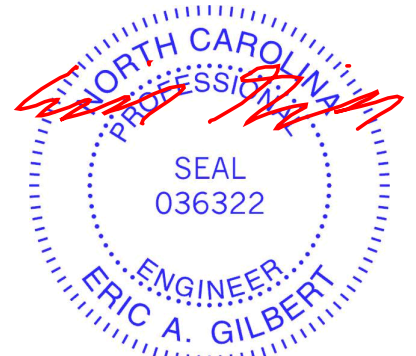
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-12=-67/0, 6-7=-65/0, 1-2=-17/0, 2-3=-17/0, 3-4=-17/0, 4-5=-17/0, 5-6=-17/0
BOT CHORD 11-12=0/17, 10-11=0/17, 9-10=0/17, 8-9=0/17, 7-8=0/17
WEBS 2-11=-159/0, 3-10=-160/0, 4-9=-161/0, 5-8=-157/0

NOTES

- All plates are 1x3 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 2-0-0 oc.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 26, 2023

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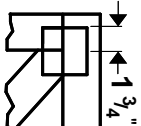
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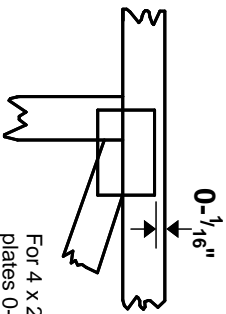
818 Soundside Road
Edenton, NC 27932

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.

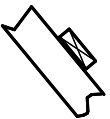
* Plate location details available in **MITek 20/20 software or upon request.**

PLATE SIZE

4 X 4

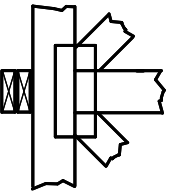
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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 where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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