

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: P03440-15869
Aslakson SC 1913

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I67792554 thru I67792587

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

North Carolina COA: C-0844



August 26, 2024

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Aslakson SC 1913	I67792554
P03440-15869	A05E	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:13

Page: 2

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WEBS
 17-45=-120/55, 18-44=-120/59,
 19-43=-122/62, 20-42=-123/25,
 22-41=-124/0, 23-39=-120/156,
 24-38=-120/131, 26-37=-120/84,
 27-36=-121/82, 28-35=-119/112,
 29-34=-128/154, 30-33=-110/119,
 16-46=-123/60, 15-47=-120/61,
 14-48=-126/26, 12-49=-133/8,
 11-50=-119/156, 10-51=-120/131,
 9-52=-120/84, 8-53=-121/83, 6-55=-119/82,
 5-56=-119/83, 4-57=-139/84, 3-58=-35/154,
 2-59=-292/208

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 5-1-12, Exterior (2) 5-1-12 to 21-10-12, Corner (3) 21-10-12 to 27-1-12, Exterior (2) 27-1-12 to 36-4-12, Corner (3) 36-4-12 to 41-7-7, Exterior (2) 41-7-7 to 52-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 32, 41 lb uplift at joint 45, 43 lb uplift at joint 44, 46 lb uplift at joint 43, 13 lb uplift at joint 42, 67 lb uplift at joint 39, 64 lb uplift at joint 38, 60 lb uplift at joint 37, 61 lb uplift at joint 36, 60 lb uplift at joint 35, 63 lb uplift at joint 34, 94 lb uplift at joint 33, 45 lb uplift at joint 46, 47 lb uplift at joint 47, 14 lb uplift at joint 48, 66 lb uplift at joint 50, 63 lb uplift at joint 51, 60 lb uplift at joint 52, 62 lb uplift at joint 53, 58 lb uplift at joint 55, 70 lb uplift at joint 56, 41 lb uplift at joint 57, 260 lb uplift at joint 58 and 142 lb uplift at joint 59.
- 12) Non Standard bearing condition. Review required.
- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

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



818 Soundside Road
 Edenton, NC 27932

Job P03440-15869	Truss A05M	Truss Type Piggyback Base	Qty 6	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792555
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:14
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Page: 1

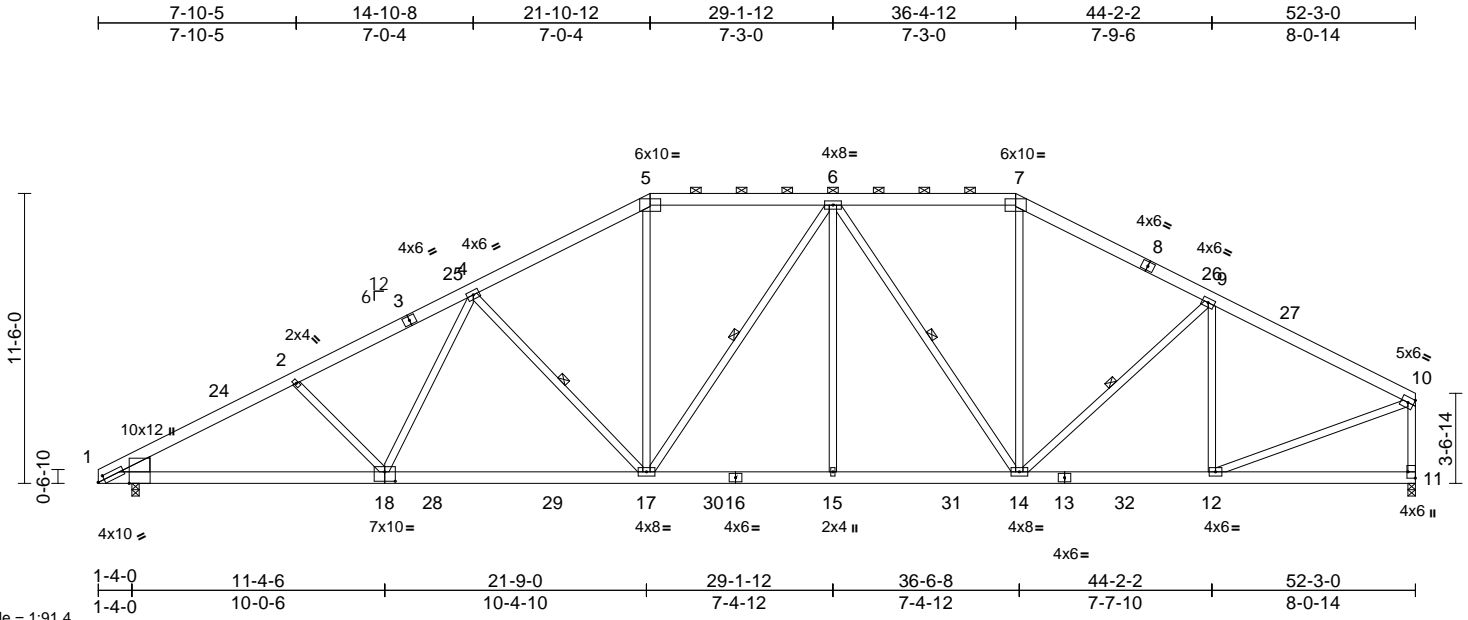


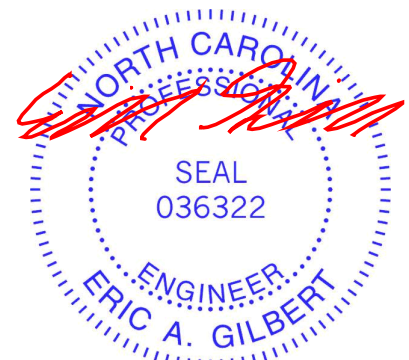
Plate Offsets (X, Y): [1:0-3-2,0-2-0], [1:0-0-8,Edge], [11:Edge,0-3-8], [18:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.28	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.52	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								Weight: 419 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 1-18:2x6 SP DSS
WEBS 2x4 SP No.2 *Except* 18-2,11-10:2x4 SP No.3
WEDGE Left: 2x8 SP DSS
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-6-10 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.
WEBS 1 Row at midpt 4-17, 6-17, 6-14, 9-14
REACTIONS (size) 1=0-3-8, 11=0-3-8
Max Horiz 1=251 (LC 12)
Max Uplift 1=-380 (LC 12), 11=-306 (LC 13)
Max Grav 1=2139 (LC 1), 11=2055 (LC 2)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3403/724, 2-4=-3251/738,
4-5=-2781/725, 5-6=-2390/698,
6-7=-2104/633, 7-9=-2463/654,
9-10=-2353/541, 10-11=-1984/481
BOT CHORD 1-17=-665/2901, 15-17=-435/2480,
14-15=-435/2480, 12-14=-410/2037,
11-12=-17/45
WEBS 2-18=-129/183, 4-18=-59/326,
4-17=-622/313, 5-17=-156/898,
6-17=-329/158, 6-15=0/374, 6-14=-772/192,
7-14=-136/724, 9-14=-88/251,
9-12=-611/216, 10-12=-432/2150

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 5-2-11, Interior (1) 5-2-11 to 21-10-12, Exterior (2) 21-10-12 to 29-1-12, Interior (1) 29-1-12 to 36-4-12, Exterior (2) 36-4-12 to 43-9-7, Interior (1) 43-9-7 to 52-1-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 11 and 380 lb uplift at joint 1.
 - 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.
- LOAD CASE(S)** Standard

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



August 26, 2024

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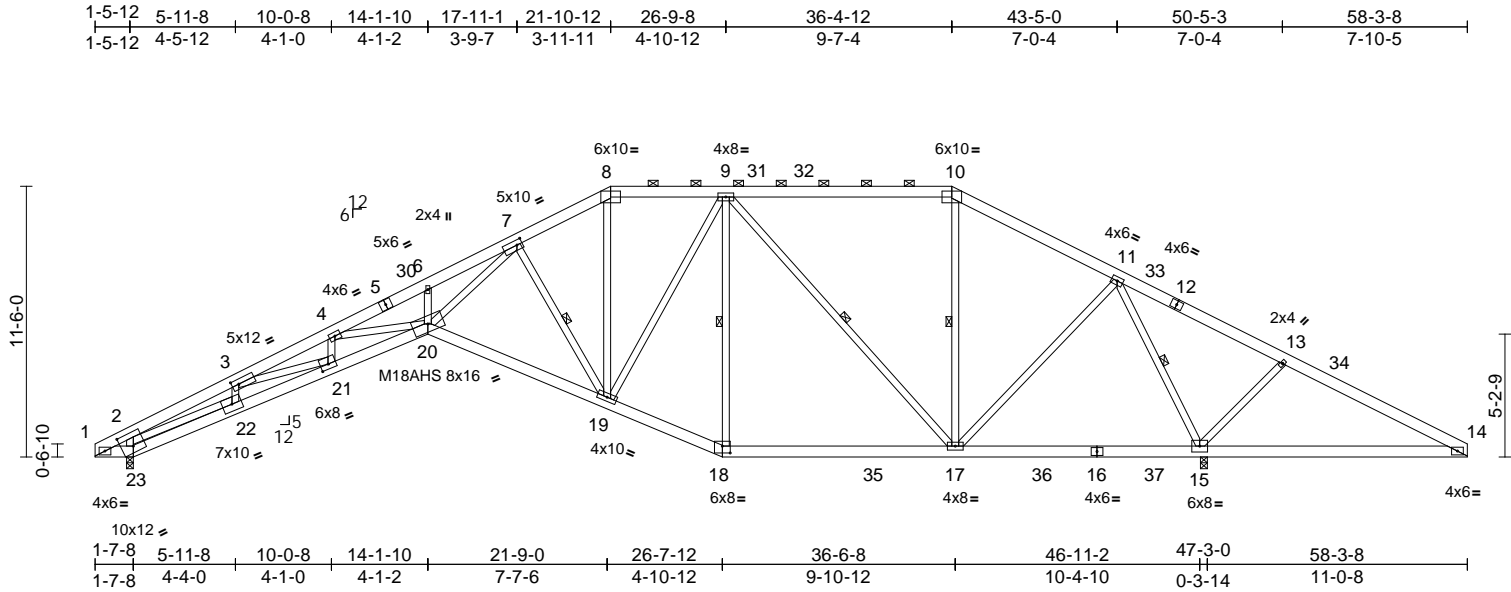
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AS01	Truss Type Piggyback Base	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792556
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84 Components (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:97.9
Plate Offsets (X, Y): [3:0-3-8,0-2-8], [7:0-2-12,0-2-8], [18:0-4-0,0-3-8], [21:0-4-0,0-2-8], [23:0-6-0,0-6-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.64	20	>855	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-1.27	20	>429	180	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.82	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 447 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 23-20,20-18:2x6 SP DSS
WEBS 2x4 SP No.2 *Except* 23-2,15-13,6-20,4-20,3-22,21-3,4-21:2x4 SP No.3, 7-20:2x4 SP DSS, 22-2:2x4 SP No.1

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-11-6 oc purlins, except 2-0-0 oc purlins (4-7-10 max.): 8-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-18, 9-17, 10-17, 11-15, 7-19

REACTIONS (size) 15=0-3-8, 23=0-3-8
Max Horiz 23=183 (LC 17)
Max Uplift 15=486 (LC 13), 23=358 (LC 12)
Max Grav 15=2833 (LC 1), 23=1838 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-921/219, 2-3=-5615/1236, 3-4=-8067/1688, 4-6=-8448/1615, 6-7=-8362/1684, 7-8=-2363/525, 8-9=-2031/494, 9-10=-1057/291, 10-11=-1245/268, 11-13=-560/1049, 13-14=-509/716
BOT CHORD 1-23=-211/914, 22-23=-255/437, 21-22=-1278/5237, 20-21=-1653/7751, 19-20=-548/3439, 18-19=-242/1789, 17-18=-220/1634, 15-17=0/382, 14-15=-526/501

WEBS 2-23=-1559/420, 8-19=-170/889, 9-19=-176/829, 9-18=-561/127, 9-17=-948/338, 10-17=-62/230, 11-17=-345/1201, 11-15=-2449/755, 13-15=-489/293, 7-20=-1252/6133, 7-19=-2341/566, 6-20=-31/104, 4-20=-34/413, 3-22=-891/236, 2-22=-978/4673, 3-21=-365/2410, 4-21=-515/103

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 5-11-8, Interior (1) 5-11-8 to 21-10-12, Exterior (2) 21-10-12 to 30-1-11, Interior (1) 30-1-11 to 36-4-12, Exterior (2) 36-4-12 to 44-7-11, Interior (1) 44-7-11 to 58-3-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 23 and 486 lb uplift at joint 15.

10) 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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



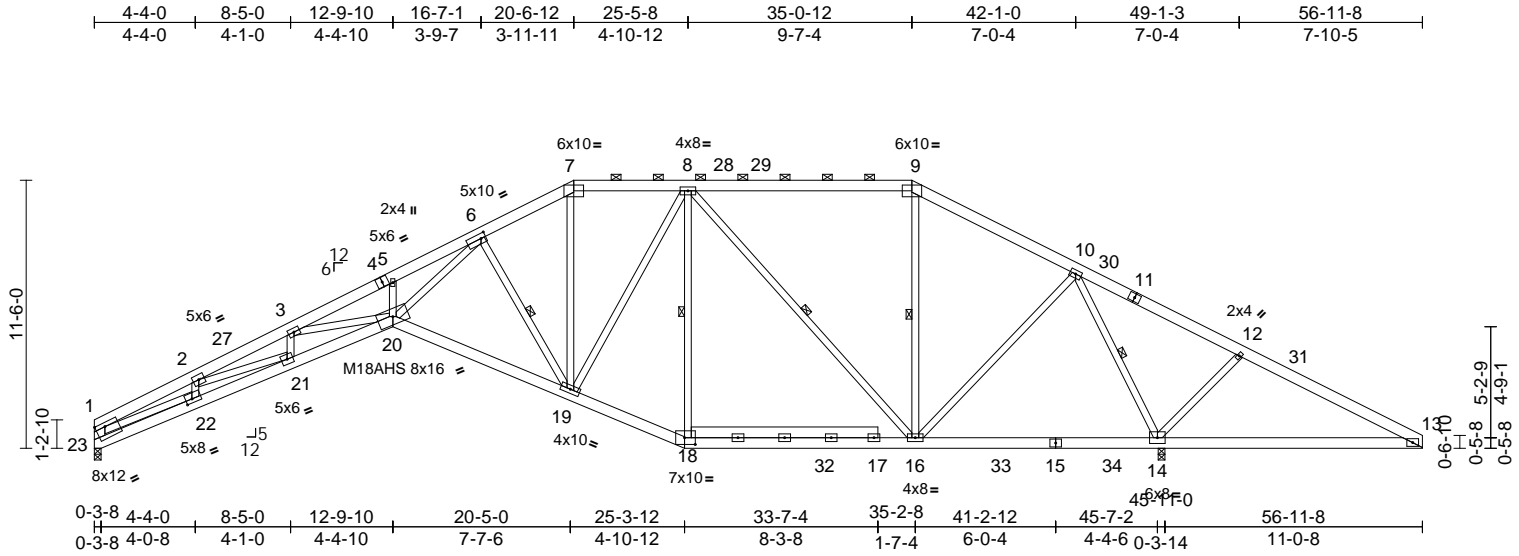
August 26, 2024

Job P03440-15869	Truss AS02	Truss Type Piggyback Base	Qty 2	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792557
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84 Components (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:98.8

Plate Offsets (X, Y): [6:0-2-8,0-2-8], [18:0-5-8,0-3-8], [22:0-3-4,0-2-0], [23:0-5-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.64	20	>852	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-1.27	19-20	>428	180	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.82	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 460 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 23-20:2x6 SP DSS
WEBS 2x4 SP No.2 *Except*
14-12:3-20,5-20,22-2,21-3:2x4 SP No.3,
23-1:2x6 SP No.2, 22-1:2x4 SP No.1,
6-20:2x4 SP DSS

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-6 max.): 7-9
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 8-16, 9-16, 10-14, 6-19

REACTIONS (size) 14=0-3-8, 23=0-3-8
Max Horiz 23=200 (LC 13)
Max Uplift 14=486 (LC 13), 23=-325 (LC 12)
Max Grav 14=2838 (LC 1), 23=1709 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-5644/1242, 2-3=-8084/1693, 3-5=-8567/1635, 5-6=-8484/1708, 6-7=-2377/529, 7-8=-2045/498, 8-9=-1042/292, 9-10=-1228/269, 10-12=-559/1046, 12-13=-508/713, 1-23=-1804/427
BOT CHORD 22-23=-318/742, 21-22=-1259/5161, 20-21=-1665/7765, 19-20=-553/3470, 18-19=-244/1807, 16-18=-226/1676, 14-16=0/380, 13-14=-525/500

WEBS 7-19=-171/892, 8-19=-167/762, 8-18=-454/110, 8-16=-1009/342, 9-16=-64/222, 10-16=-344/1198, 10-14=-2444/754, 12-14=-488/291, 1-22=-928/4362, 6-20=-1275/6246, 6-19=-2368/571, 3-20=-33/502, 5-20=-53/112, 2-22=-879/235, 2-21=-393/2484, 3-21=-537/116

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 5-11-2, Interior (1) 5-11-2 to 20-6-12, Exterior (2) 20-6-12 to 28-7-7, Interior (1) 28-7-7 to 35-0-12, Exterior (2) 35-0-12 to 43-1-7, Interior (1) 43-1-7 to 56-11-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 4x6 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 23 and 486 lb uplift at joint 14.
12) 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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



August 26, 2024

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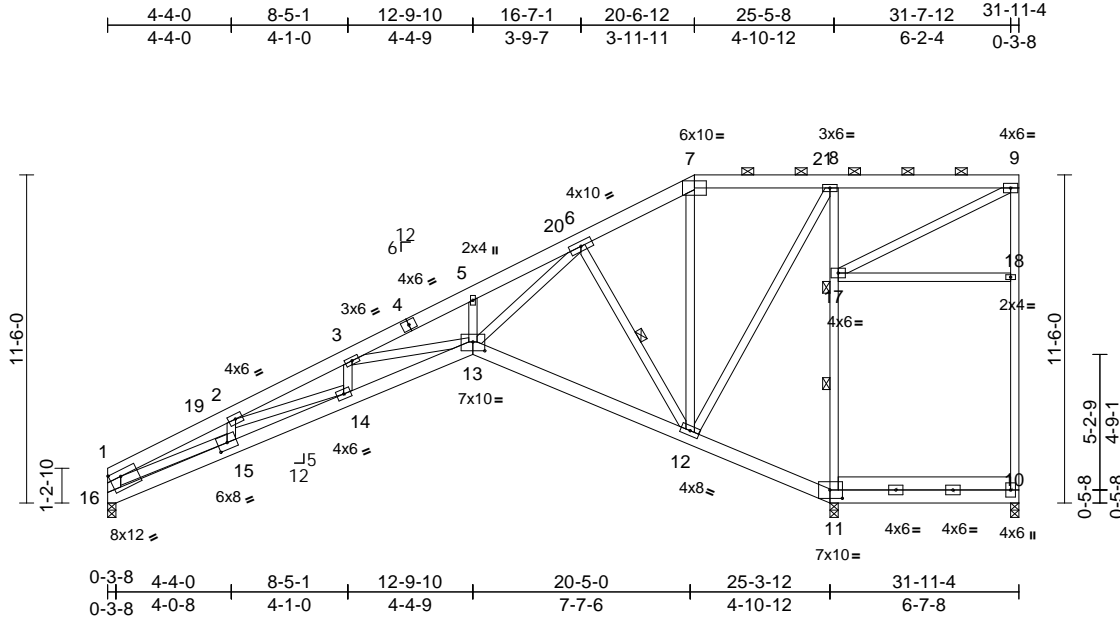
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AS03	Truss Type Piggyback Base	Qty 7	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792558
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:15
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Page: 1



Scale = 1:80.8

Plate Offsets (X, Y): [11:0-5-4-0-3-8], [13:0-5-0-0-3-12], [15:0-4-0-0-2-12], [16:0-4-12-0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.26	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.45	13-14	>668	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.40	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.02	10-11	>999	360	Weight: 296 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 16-1:2x6 SP No.2,
15-1,3-13,5-13,15-2,14-2,14-3:2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 5-9-10 oc bracing.
WEBS 1 Row at midpt 11-17, 6-12
JOINTS 1 Brace at Jt(s): 17

REACTIONS (size) 10=0-3-8, 11=0-3-8, 16=0-3-8
Max Horiz 16=394 (LC 12)
Max Uplift 10=14 (LC 8), 11=152 (LC 12),
16=150 (LC 12)
Max Grav 10=390 (LC 27), 11=1654 (LC 2),
16=976 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3010/965, 2-3=-3858/1262,
3-5=-3424/1099, 5-6=-3375/1173,
6-7=-504/115, 7-8=-389/127, 8-9=-203/197,
10-18=-156/50, 9-18=-125/69,
1-16=-1030/345
BOT CHORD 15-16=-746/733, 14-15=-1361/2744,
13-14=-1635/3706, 12-13=-593/1077,
11-12=-90/78, 10-11=-88/73
WEBS 7-12=-1/134, 8-12=-389/843,
11-17=-1403/592, 8-17=-1199/501,
1-15=-718/2252, 3-13=-404/230,
5-13=-150/114, 6-13=-1215/2886,
6-12=-1225/556, 2-15=-423/187,
2-14=-267/917, 3-14=-137/81,
17-18=-202/198, 9-17=-243/236

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-5-1, Interior (1) 3-5-1 to 20-6-12, Exterior (2) 20-6-12 to 25-0-15, Interior (1) 25-0-15 to 31-9-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 17-18; Wall dead load (10.0psf) on member(s). 11-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-11
- All bearings are assumed to be SP No.2 .
- Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 10, 150 lb uplift at joint 16 and 152 lb uplift at joint 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.

15) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
LOAD CASE(S) Standard



August 26, 2024

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

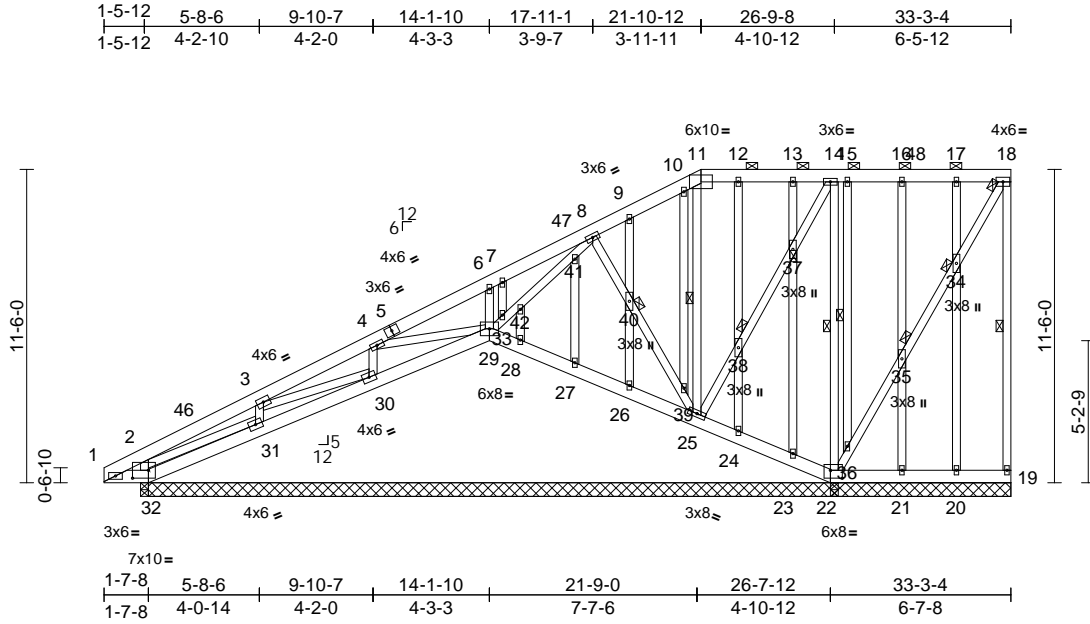
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AS04E	Truss Type Piggyback Base	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792560
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:16
 ID:RsYueiMsikE2vxEJ3IXjyk2Pr-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRCoD7J4zJC?f

Page: 1



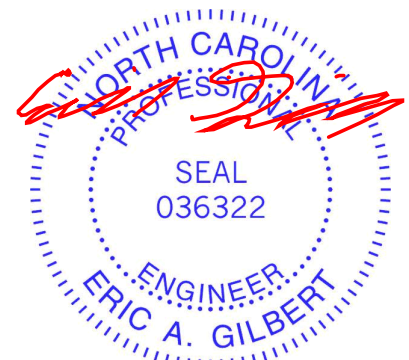
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Plate Offsets (X, Y): [22:0-5-4-0-3-8], [32:0-7-0-0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	31-32	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	29-30	>999	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	19	n/a	n/a
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						
									Weight: 392 lb	FT = 20%

LUMBER	TOP CHORD	BOT CHORD	WEBS	OTHERS	BRACING	TOP CHORD	BOT CHORD	WEBS	JOINTS	REACTIONS
Max Grav	19=65 (LC 24), 20=157 (LC 24), 21=188 (LC 1), 22=129 (LC 1), 23=130 (LC 24), 24=137 (LC 1), 25=285 (LC 1), 26=162 (LC 1), 27=89 (LC 3), 28=51 (LC 3), 29=324 (LC 1), 30=338 (LC 1), 31=341 (LC 1), 32=289 (LC 1)					TOP CHORD	BOT CHORD	WEBS	1 Brace at Jt(s): 18, 34, 35, 37, 38, 40	(size) 19=31-7-12, 20=31-7-12, 21=31-7-12, 22=0-3-8, 23=31-7-12, 24=31-7-12, 25=31-7-12, 26=31-7-12, 27=31-7-12, 28=31-7-12, 29=31-7-12, 30=31-7-12, 31=31-7-12, 32=0-3-8 32=424 (LC 12) Max Horiz Max Uplift 19=24 (LC 9), 20=41 (LC 9), 21=46 (LC 9), 22=29 (LC 8), 23=34 (LC 9), 24=35 (LC 8), 25=88 (LC 12), 26=59 (LC 12), 28=10 (LC 12), 29=176 (LC 12), 30=113 (LC 12), 31=146 (LC 12)
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-3-15, Interior (1) 3-3-15 to 21-10-12, Exterior (2) 21-10-12 to 26-9-8, Interior (1) 26-9-8 to 33-1-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60										
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.										
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.										
5) Provide adequate drainage to prevent water ponding.										
6) All plates are 2x4 MT20 unless otherwise indicated.										
7) Gable studs spaced at 2-0-0 oc.										
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.										

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



August 26, 2024

Continued on page 2

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



Job P03440-15869	Truss AS04E	Truss Type Piggyback Base	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	I67792560
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84 Components (Dunn, NC), Dunn, NC - 28334,

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Page: 2

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearings are assumed to be: Joint 32 SP No.2 , Joint 22 SP No.2 , Joint 28 SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 19, 176 lb uplift at joint 29, 29 lb uplift at joint 22, 88 lb uplift at joint 25, 146 lb uplift at joint 31, 113 lb uplift at joint 30, 41 lb uplift at joint 20, 46 lb uplift at joint 21, 34 lb uplift at joint 23, 35 lb uplift at joint 24, 59 lb uplift at joint 26 and 10 lb uplift at joint 28.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

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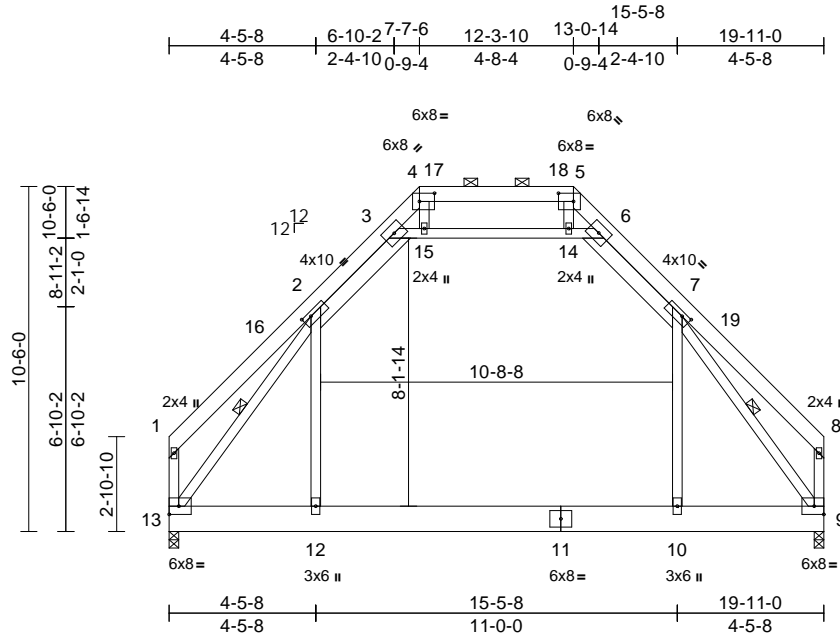
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AT1	Truss Type Attic	Qty 10	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792561
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:16
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Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [2:0-3-4,0-1-8], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-3-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.12	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.19	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.07	10-12	>999	360	Weight: 216 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP DSS
 WEBS 2x4 SP No.3 *Except* 2-12,7-10,3-6:2x4 SP No.1, 13-2,9-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 2-13, 7-9

REACTIONS (size) 9=0-3-8, 13=0-3-8
 Max Horiz 13=271 (LC 8)
 Max Grav 9=1259 (LC 2), 13=1259 (LC 2)

FORCES

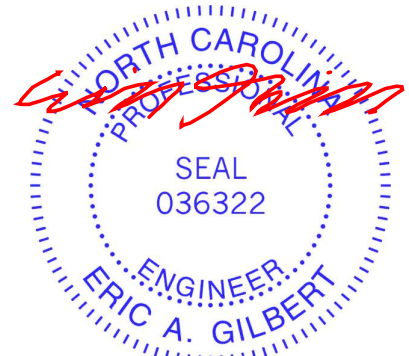
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-305/162, 2-3=-757/138, 3-4=-162/236, 4-5=-24/484, 5-6=-162/236, 6-7=-757/139, 7-8=-305/161, 1-13=-344/137, 8-9=-343/136
 BOT CHORD 12-13=0/796, 10-12=0/797, 9-10=0/795
 WEBS 2-12=-67/895, 7-10=-66/895, 3-15=-1168/138, 14-15=-1157/141, 6-14=-1168/140, 2-13=-1337/0, 7-9=-1337/0, 5-14=-3/111, 4-15=-3/111

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-7-6, Exterior (2) 7-7-6 to 11-10-5, Interior (1) 11-10-5 to 12-3-10, Exterior (2) 12-3-10 to 16-6-9, Interior (1) 16-6-9 to 19-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-15, 14-15, 6-14; Wall dead load (10.0psf) on member (s).2-12, 7-10
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-12
- 9) All bearings are assumed to be SP No.2 .
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



August 26, 2024

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

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



818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AT1E	Truss Type Attic Supported Gable	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	I67792562
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84 Components (Dunn, NC), Dunn, NC - 28334,

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Page: 2

18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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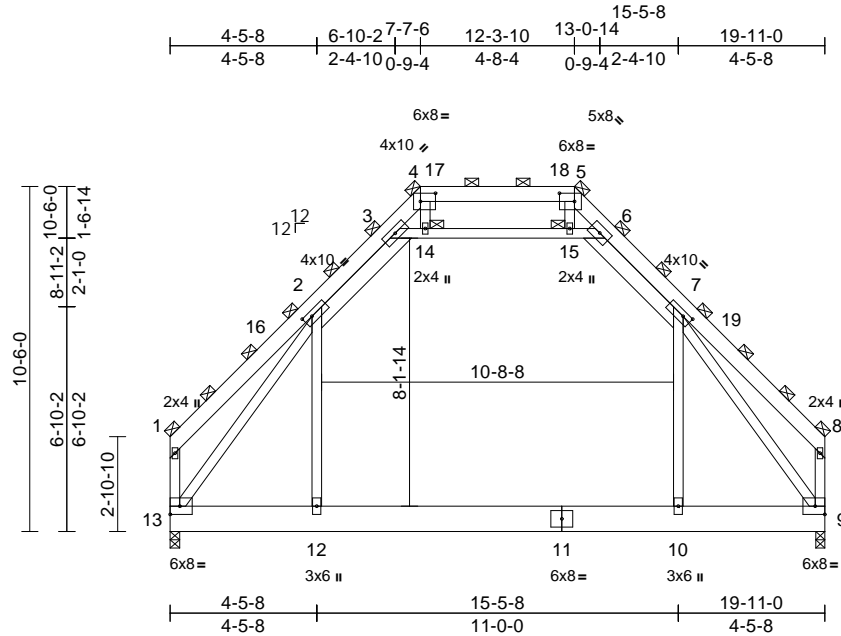
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AT2	Truss Type Attic	Qty 1	Ply 2	Aslakson SC 1913 Job Reference (optional)	167792563
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:17
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Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [2:0-3-4,0-1-12], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-3-4,0-1-12]

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.09	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.14	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.06	10-12	>999	360	Weight: 432 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* 2-12,7-10,3-6:2x4 SP No.1, 13-2,9-7:2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS
1 Brace at Jt(s): 1, 4, 5, 8, 14, 15

REACTIONS
(size) 9=0-3-4, 13=0-3-8
Max Horiz 13=407 (LC 8)
Max Grav 9=1889 (LC 2), 13=1889 (LC 2)

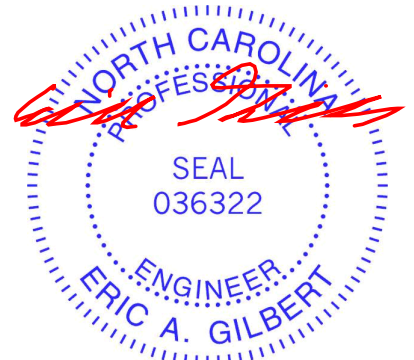
FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-457/242, 2-3=-1136/207, 3-4=-243/355, 4-5=-36/726, 5-6=-243/355, 6-7=-1136/208, 7-8=-457/241, 1-13=-515/205, 8-9=-515/204, 12-13=0/1194, 10-12=0/1196, 9-10=0/1193
BOT CHORD 2-12=-101/1343, 7-10=-100/1343, 3-14=-1752/206, 14-15=-1735/212, 6-15=-1752/211, 2-13=-2006/0, 7-9=-2005/0, 4-14=-4/166, 5-15=-4/166

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-7-6, Exterior (2) 7-7-6 to 11-10-5, Interior (1) 11-10-5 to 12-3-10, Exterior (2) 12-3-10 to 16-6-9, Interior (1) 16-6-9 to 19-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-14, 14-15, 6-15; Wall dead load (10.0psf) on member (s).2-12, 7-10
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-12
- All bearings are assumed to be SP No.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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

14) Attic room checked for L/360 deflection.
LOAD CASE(S) Standard



August 26, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



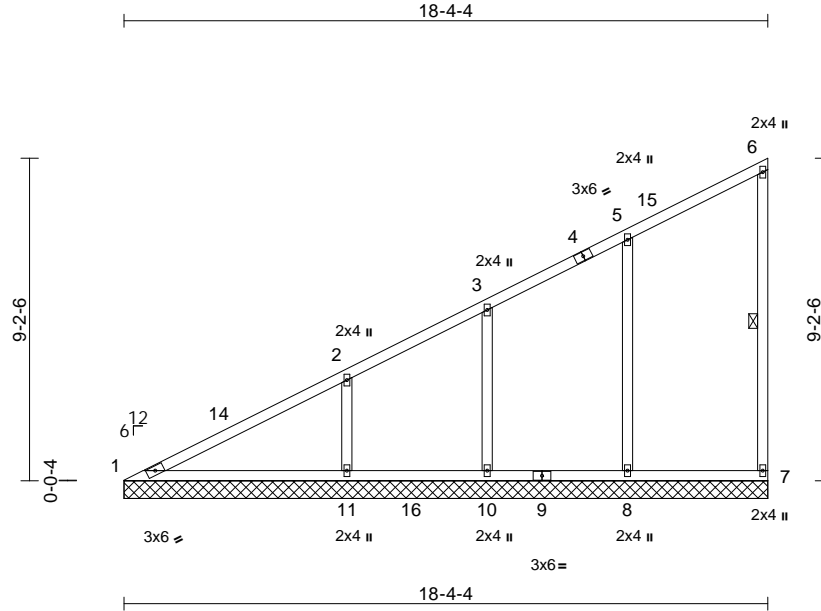
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV1	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792564
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:17
ID: TG45eSQs90t8?Svq6Yl6nyk1UM-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?

Page: 1



Scale = 1:65.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 90 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2
- OTHERS 2x4 SP No.3 *Except* 8-5:2x4 SP No.2

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.
- WEBS 1 Row at midpt 6-7

REACTIONS

- (size) 1=18-4-4, 7=18-4-4, 8=18-4-4, 10=18-4-4, 11=18-4-4
- Max Horiz 1=346 (LC 12)
- Max Uplift 7=-47 (LC 12), 8=-136 (LC 12), 10=-97 (LC 12), 11=-183 (LC 12)
- Max Grav 1=208 (LC 1), 7=154 (LC 2), 8=452 (LC 2), 10=320 (LC 2), 11=522 (LC 1)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-384/155, 2-3=-217/88, 3-5=-139/68, 5-6=-71/29, 6-7=-92/66
- BOT CHORD 1-11=-146/317, 10-11=-1/2, 8-10=-1/2, 7-8=-1/2
- WEBS 5-8=-270/161, 3-10=-195/127, 2-11=-350/189

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 18-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 7, 136 lb uplift at joint 8, 97 lb uplift at joint 10 and 183 lb uplift at joint 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.

LOAD CASE(S) Standard



August 26, 2024

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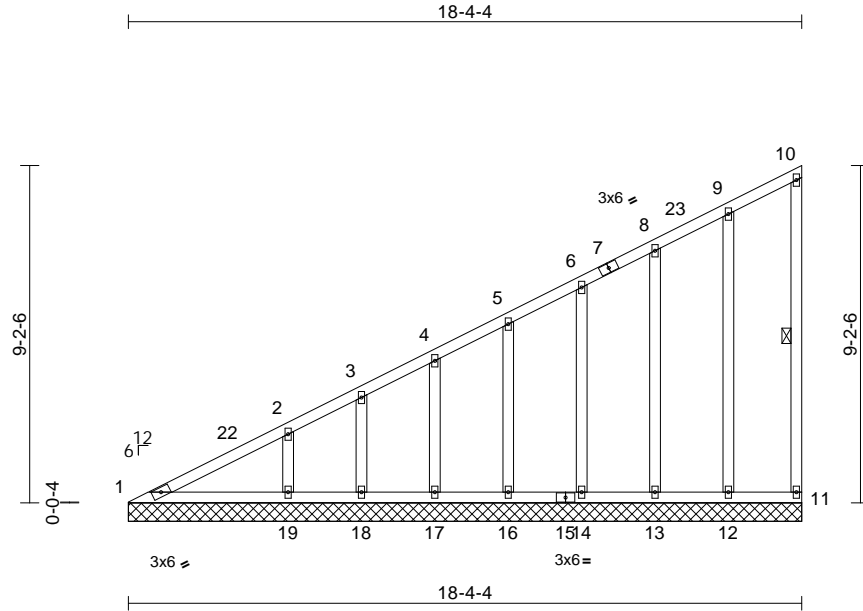
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV1E	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792565
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:17
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Scale = 1:62.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 118 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 12-9,13-8:2x4 SP No.2

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.
WEBS 1 Row at midpt 10-11

REACTIONS (size)
1=18-4-4, 11=18-4-4, 12=18-4-4,
13=18-4-4, 14=18-4-4, 16=18-4-4,
17=18-4-4, 18=18-4-4, 19=18-4-4
Max Horiz 1=346 (LC 12)
Max Uplift 11=-24 (LC 12), 12=-62 (LC 12),
13=-61 (LC 12), 14=-61 (LC 12),
16=-60 (LC 12), 17=-65 (LC 12),
18=-41 (LC 12), 19=-109 (LC 12)
Max Grav 1=164 (LC 21), 11=60 (LC 1),
12=169 (LC 1), 13=159 (LC 1),
14=161 (LC 1), 16=155 (LC 1),
17=182 (LC 1), 18=72 (LC 1),
19=356 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-344/152, 2-3=-278/105, 3-4=-241/101,
4-5=-196/82, 5-6=-153/66, 6-8=-110/49,
8-9=-72/32, 9-10=-33/15, 10-11=-45/32
BOT CHORD 1-19=-113/197, 18-19=0/0, 17-18=0/0,
16-17=0/0, 14-16=0/0, 13-14=0/0, 12-13=0/0,
11-12=0/0
WEBS 9-12=-126/84, 8-13=-120/73, 6-14=-120/73,
5-16=-118/72, 4-17=-131/76, 3-18=-75/58,
2-19=-227/110

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCdL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 18-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 11, 62 lb uplift at joint 12, 61 lb uplift at joint 13, 61 lb uplift at joint 14, 60 lb uplift at joint 16, 65 lb uplift at joint 17, 41 lb uplift at joint 18 and 109 lb uplift at joint 19.
- 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) Standard



August 26, 2024

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TRENCO
A MiTek Affiliate

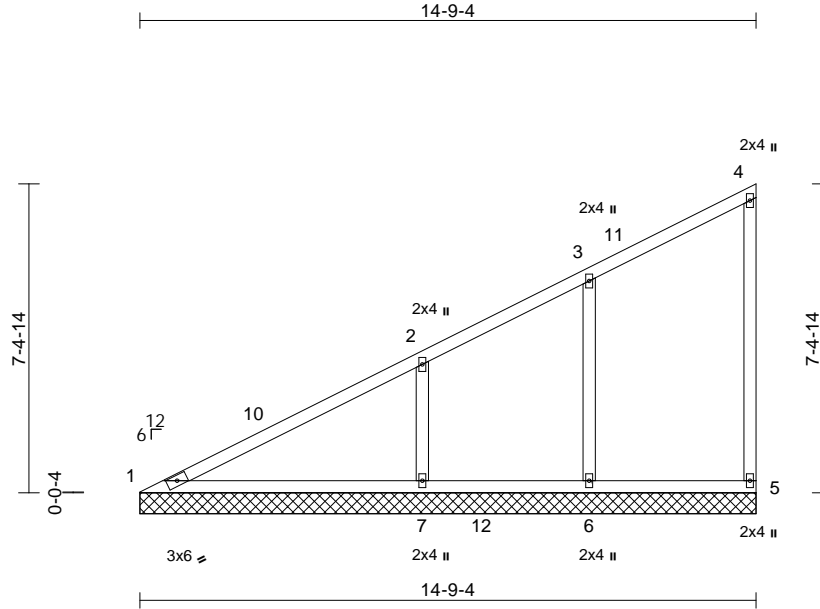
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV2	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792566
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:17
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Page: 1



Scale = 1:55.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 67 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3

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) 1=14-9-4, 5=14-9-4, 6=14-9-4, 7=14-9-4
Max Horiz 1=277 (LC 12)
Max Uplift 5=-54 (LC 12), 6=-101 (LC 12), 7=-196 (LC 12)
Max Grav 1=223 (LC 1), 5=172 (LC 2), 6=355 (LC 2), 7=548 (LC 1)

FORCES

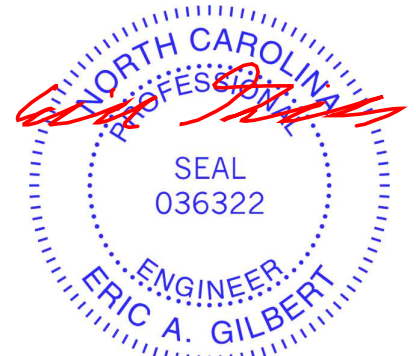
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-387/129, 2-3=-130/55, 3-4=-70/34, 4-5=-103/74
BOT CHORD 1-7=-158/344, 6-7=-2/4, 5-6=-2/4
WEBS 3-6=-211/137, 2-7=-366/198

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0'-0" to 3'-0", Interior (1) 3'-0" to 14'-8" zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4'-0" oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) All bearings are assumed to be SP No.2 .
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5, 101 lb uplift at joint 6 and 196 lb uplift at joint 7.
 - 10) 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)** Standard



August 26, 2024

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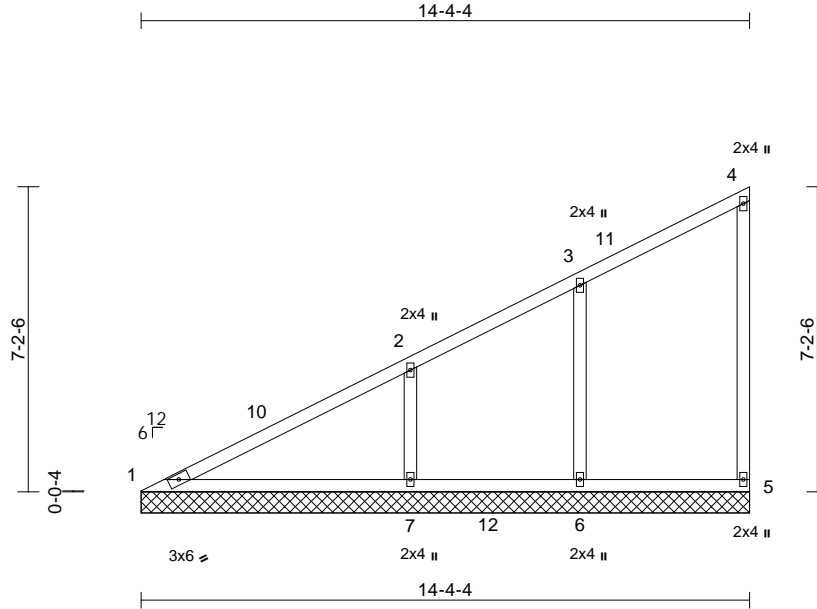
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV2A	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792567
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:17
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Page: 1



Scale = 1:54.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 65 lb	FT = 20%

LUMBER

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

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=14-4-4, 5=14-4-4, 6=14-4-4, 7=14-4-4
- Max Horiz 1=269 (LC 12)
- Max Uplift 5=-53 (LC 12), 6=-107 (LC 12), 7=-184 (LC 12)
- Max Grav 1=210 (LC 1), 5=171 (LC 2), 6=362 (LC 2), 7=516 (LC 1)

FORCES

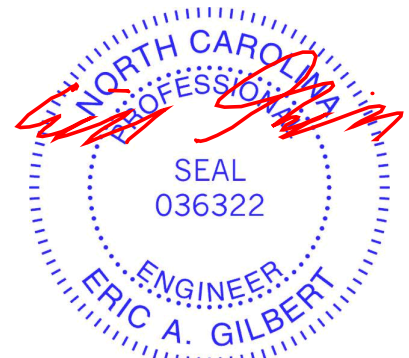
(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-2=-361/126, 2-3=-132/58, 3-4=-71/34, 4-5=-101/74
- BOT CHORD 1-7=-152/319, 6-7=-2/5, 5-6=-2/5
- WEBS 3-6=-220/142, 2-7=-345/187

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 14-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 5, 107 lb uplift at joint 6 and 184 lb uplift at joint 7.
 - 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)** Standard



August 26, 2024

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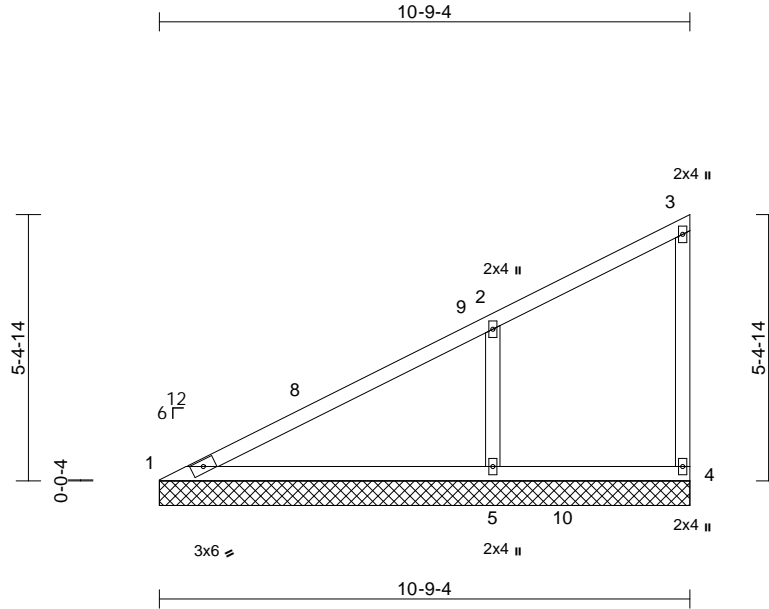
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV3	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792568
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:17
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Page: 1



Scale = 1:46.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

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)	1=10-9-4, 4=10-9-4, 5=10-9-4
Max Horiz	1=200 (LC 12)
Max Uplift	4=-27 (LC 12), 5=-207 (LC 12)
Max Grav	1=219 (LC 1), 4=103 (LC 2), 5=569 (LC 1)

FORCES

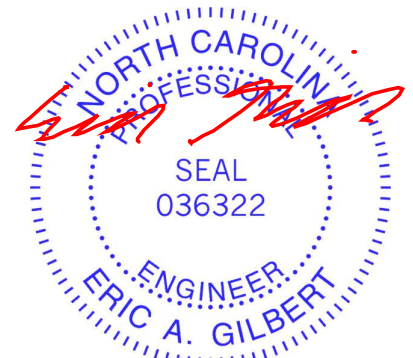
(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-378/107, 2-3=-77/19, 3-4=-61/72
BOT CHORD	1-5=-168/335, 4-5=-3/1
WEBS	2-5=-384/213

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 10-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) All bearings are assumed to be SP No.2 .
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 207 lb uplift at joint 5.
 - 10) 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)** Standard



August 26, 2024

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

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ENGINEERING BY
TRENCO
A MiTek Affiliate

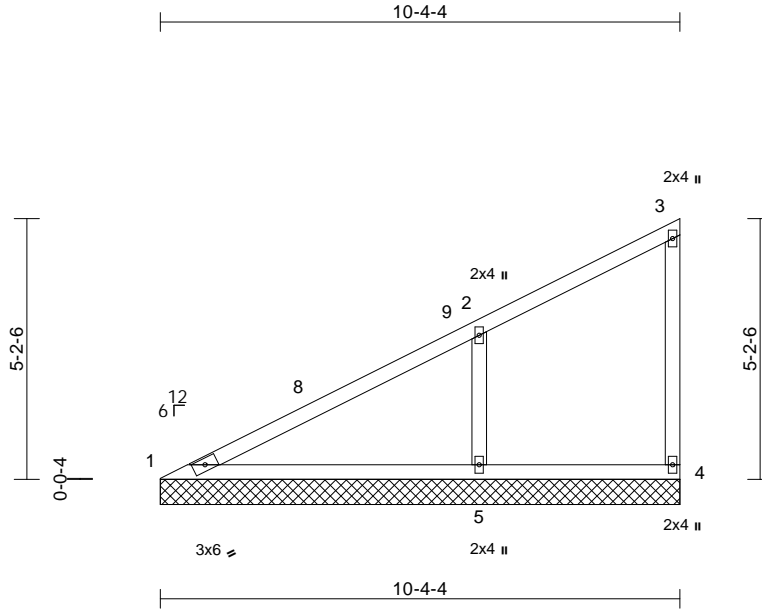
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV3A	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792569
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
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Page: 1



Scale = 1:45.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 42 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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) 1=10-4-4, 4=10-4-4, 5=10-4-4
Max Horiz 1=192 (LC 12)
Max Uplift 4=-31 (LC 12), 5=-195 (LC 12)
Max Grav 1=205 (LC 1), 4=74 (LC 1), 5=538 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-352/102, 2-3=-75/21, 3-4=-68/76
BOT CHORD 1-5=-162/311, 4-5=-2/1
WEBS 2-5=-364/208

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 10-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) All bearings are assumed to be SP No.2 .
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 195 lb uplift at joint 5.
 - 10) 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)** Standard



August 26, 2024

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

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



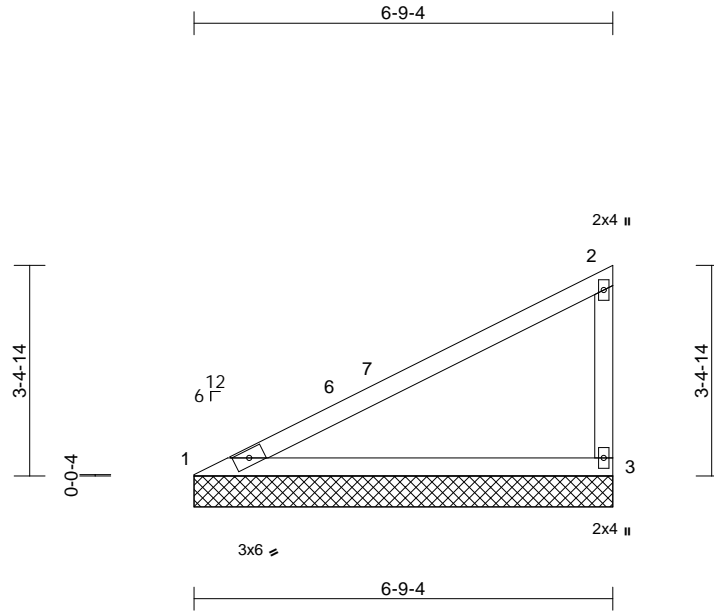
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV4	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792570
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
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Page: 1



Scale = 1:37.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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=6-9-4, 3=6-9-4

Max Horiz 1=123 (LC 12)
Max Uplift 1=-39 (LC 12), 3=-98 (LC 12)
Max Grav 1=265 (LC 1), 3=265 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

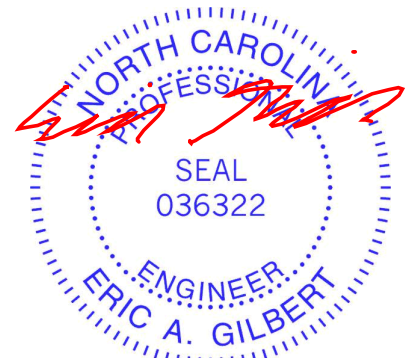
TOP CHORD 1-2=-475/110, 2-3=-171/141
BOT CHORD 1-3=-220/419

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 6-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3 and 39 lb uplift at joint 1.
- 10) 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) Standard



August 26, 2024

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

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



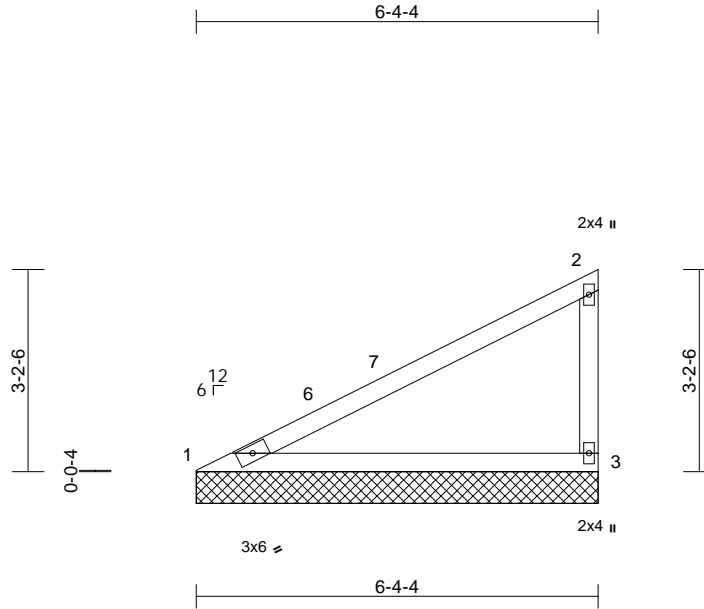
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss AV4A	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792571
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
ID:PeBs37S6he7bOlcHxWamBCyk1UK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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=6-4-4, 3=6-4-4
Max Horiz 1=114 (LC 12)
Max Uplift 1=-37 (LC 12), 3=-91 (LC 1)
Max Grav 1=248 (LC 1), 3=248 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

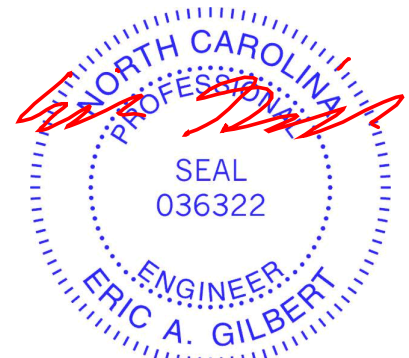
TOP CHORD 1-2=-441/109, 2-3=-160/135
BOT CHORD 1-3=-213/389

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 6-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3 and 37 lb uplift at joint 1.
- 10) 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) Standard



August 26, 2024

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

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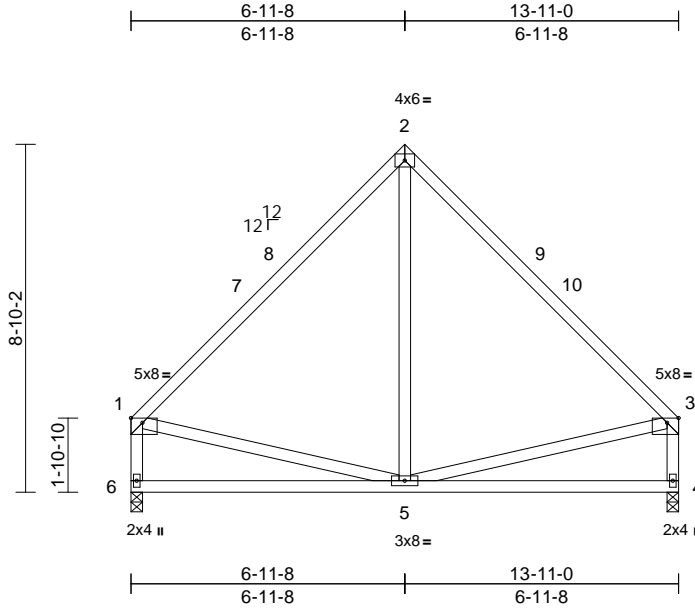
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss B01	Truss Type Common	Qty 3	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792572
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
ID:FznXshABFG0SQ7SaGL73x8yk1S6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.6

Plate Offsets (X, Y): [1:Edge,0-1-7], [3:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 87 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2 *Except* 6-1,4-3:2x4 SP No.3

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

- (size) 4=0-3-8, 6=0-3-8
- Max Horiz 6=-229 (LC 8)
- Max Uplift 4=-94 (LC 12), 6=-94 (LC 13)
- Max Grav 4=545 (LC 1), 6=545 (LC 1)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-493/155, 2-3=-493/155, 1-6=-485/142, 3-4=-485/142
- BOT CHORD 5-6=-257/298, 4-5=-100/150
- WEBS 2-5=-4/249, 1-5=-87/236, 3-5=-89/237

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-11-8, Exterior (2) 6-11-8 to 9-11-8, Interior (1) 9-11-8 to 13-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 6 and 94 lb uplift at joint 4.
- 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) Standard



August 26, 2024

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

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



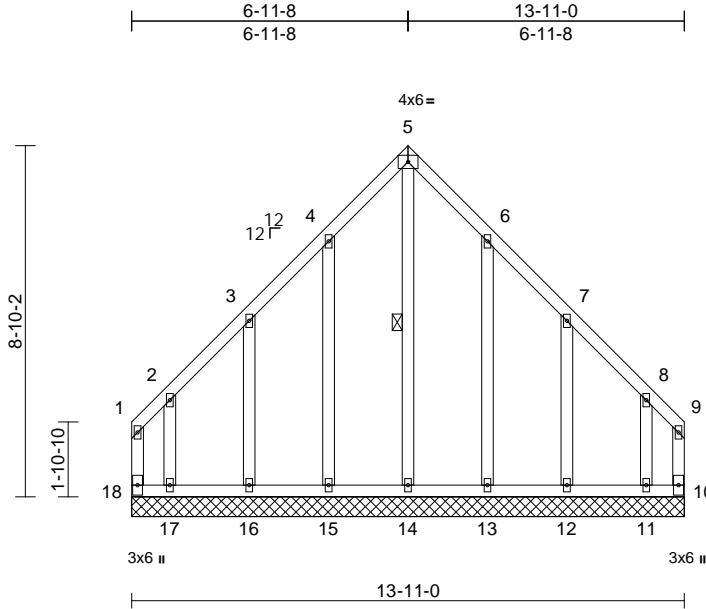
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss B01E	Truss Type Common Supported Gable	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792573
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
ID:cC6sUCR_31nK3V8pYzXDqnyk1Rm-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:58

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR						Weight: 106 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3 *Except* 14-5,15-4,13-6:2x4 SP No.2

WEBS	
5-14	=356/233, 4-15=-157/125,
3-16	=174/138, 2-17=-193/169,
6-13	=157/125, 7-12=-174/138,
8-11	=189/168

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 18, 294 lb uplift at joint 10, 115 lb uplift at joint 15, 118 lb uplift at joint 16, 304 lb uplift at joint 17, 115 lb uplift at joint 13, 118 lb uplift at joint 12 and 292 lb uplift at joint 11.

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.
WEBS	1 Row at midpt 5-14

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 2-11-8, Exterior (2) 2-11-8 to 6-11-8, Corner (3) 6-11-8 to 9-11-8, Exterior (2) 9-11-8 to 13-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 .

13) 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) Standard

REACTIONS	(size)	
	10=13-11-0, 11=13-11-0,	
	12=13-11-0, 13=13-11-0,	
	14=13-11-0, 15=13-11-0,	
	16=13-11-0, 17=13-11-0,	
	18=13-11-0	

Max Horiz	18=229 (LC 8)	
Max Uplift	10=294 (LC 11), 11=292 (LC 8),	
	12=118 (LC 13), 13=115 (LC 13),	
	15=115 (LC 12), 16=118 (LC 12),	
	17=304 (LC 9), 18=311 (LC 10)	
Max Grav	10=319 (LC 8), 11=351 (LC 11),	
	12=175 (LC 20), 13=192 (LC 20),	
	14=295 (LC 13), 15=192 (LC 19),	
	16=174 (LC 19), 17=363 (LC 10),	
	18=335 (LC 9)	

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-18=-197/179, 1-2=-205/193, 2-3=-116/126,
	3-4=-169/203, 4-5=-252/301, 5-6=-252/301,
	6-7=-169/203, 7-8=-109/124, 8-9=-195/182,
	9-10=-187/169
BOT CHORD	17-18=-120/119, 16-17=-120/119,
	15-16=-120/119, 14-15=-120/119,
	13-14=-120/119, 12-13=-120/119,
	11-12=-120/119, 10-11=-120/119



August 26, 2024

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

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



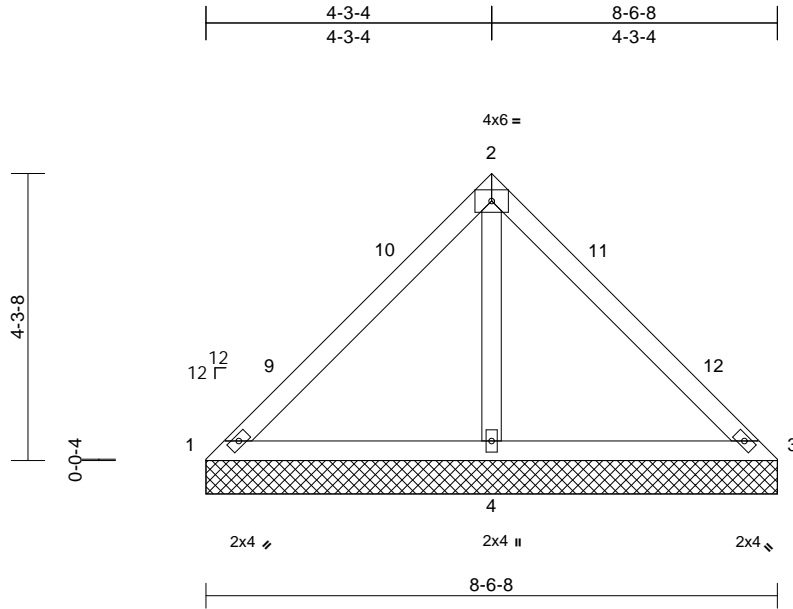
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss BV1	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792574
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
ID:nJG0zatTPAmBUwinDon6yk1Rb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 8-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=8-6-8, 3=8-6-8, 4=8-6-8
Max Horiz 1=-101 (LC 8)
Max Uplift 1=-22 (LC 24), 3=-22 (LC 23), 4=-203 (LC 12)
Max Grav 1=63 (LC 23), 3=63 (LC 24), 4=628 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-130/247, 2-3=-129/241
BOT CHORD 1-4=-234/176, 3-4=-234/176
WEBS 2-4=-472/234

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-3-8, Exterior (2) 4-3-8 to 7-3-8, Interior (1) 7-3-8 to 8-6-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 22 lb uplift at joint 3 and 203 lb uplift at joint 4.
 - 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)** Standard



August 26, 2024

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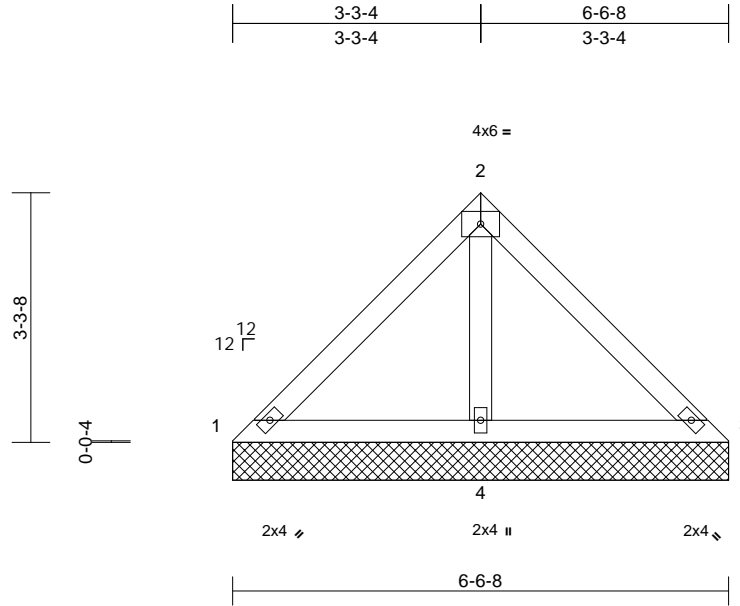
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss BV2	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792575
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
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Page: 1



Scale = 1:30.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=6-6-8, 3=6-6-8, 4=6-6-8
Max Horiz 1=76 (LC 9)
Max Uplift 4=-124 (LC 12)
Max Grav 1=68 (LC 23), 3=68 (LC 24), 4=427 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-68/152, 2-3=-67/144
BOT CHORD 1-4=-144/120, 3-4=-144/120
WEBS 2-4=-290/143

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 4.
 - 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)** Standard



August 26, 2024

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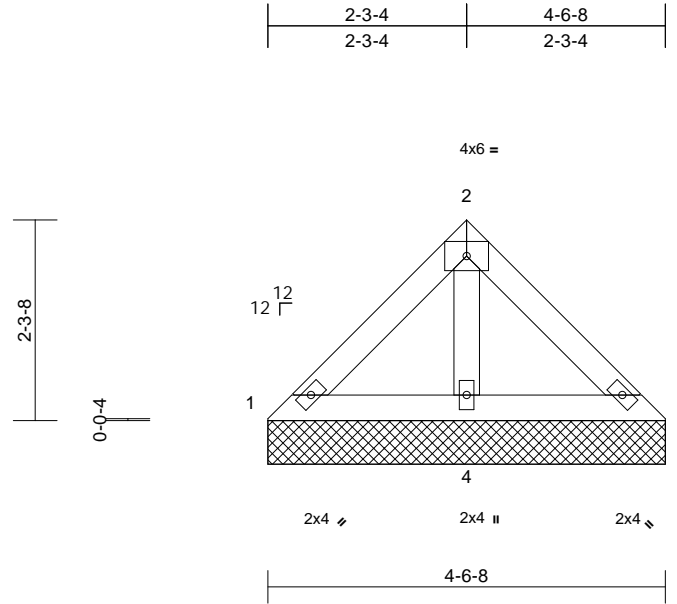
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss BV3	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792576
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:18
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Page: 1



Scale = 1:26.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=4-6-8, 3=4-6-8, 4=4-6-8
Max Horiz 1=-52 (LC 8)
Max Uplift 1=-3 (LC 13), 3=-6 (LC 13), 4=-66 (LC 12)
Max Grav 1=61 (LC 23), 3=61 (LC 24), 4=261 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-51/78, 2-3=-51/70
BOT CHORD 1-4=-75/68, 3-4=-75/68
WEBS 2-4=-155/62

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 6 lb uplift at joint 3 and 66 lb uplift at joint 4.
 - 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)** Standard



August 26, 2024

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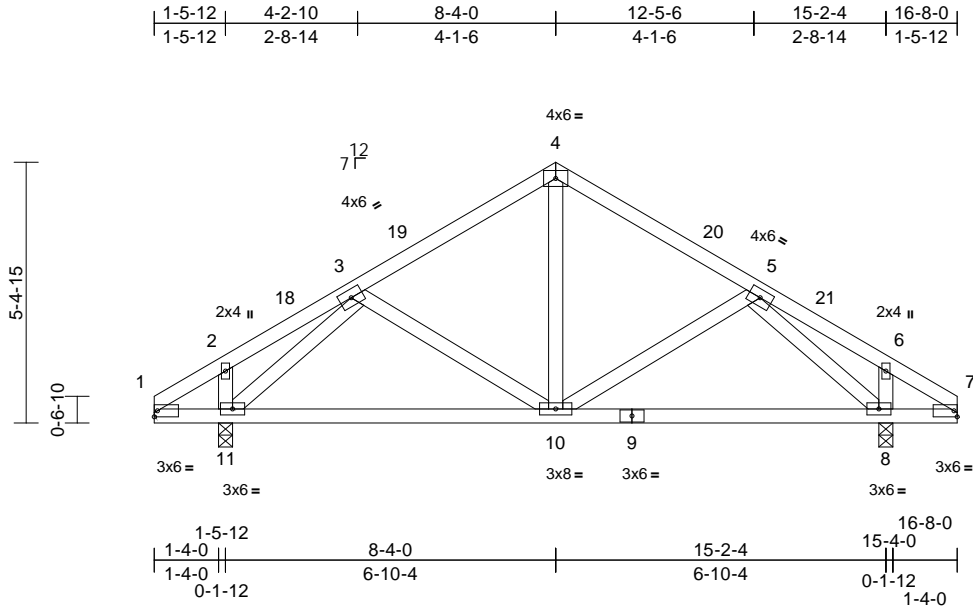
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss C01	Truss Type Common	Qty 6	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792577
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:19
ID:R92PSi7keXzFOG?mOR2bepk1QtRfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:47.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.03	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.07	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 88 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 8=0-3-8, 11=0-3-8
Max Horiz 11=120 (LC 9)
Max Uplift 8=-129 (LC 13), 11=-129 (LC 12)
Max Grav 8=667 (LC 1), 11=667 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-87/45, 2-3=-78/48, 3-4=-503/132, 4-5=-503/132, 5-6=-78/48, 6-7=-87/45
BOT CHORD 1-11=0/73, 10-11=-127/464, 8-10=-51/423, 7-8=0/73
WEBS 4-10=-38/268, 2-11=-109/93, 3-11=-587/158, 3-10=-97/121, 5-10=-98/122, 5-8=-587/158, 6-8=-109/93

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-4-0, Exterior (2) 8-4-0 to 11-4-0, Interior (1) 11-4-0 to 16-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 11 and 129 lb uplift at joint 8.
- 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) Standard



August 26, 2024

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

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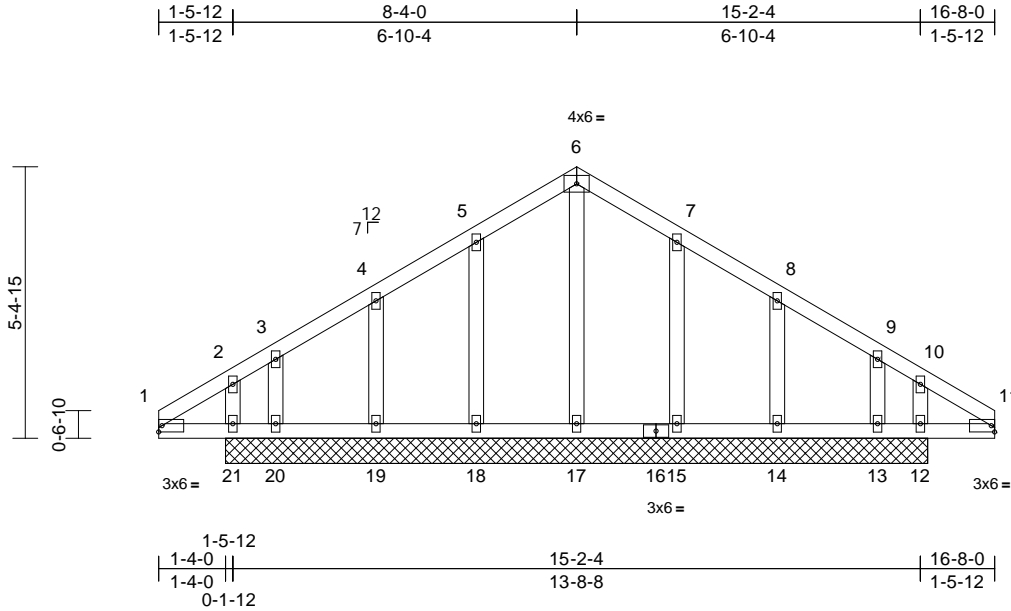
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss C01E	Truss Type Common Supported Gable	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792578
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:19
ID:5YteE25wo72u?Z684EULugyk1Pd-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC7f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	12	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 86 lb	FT = 20%

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

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

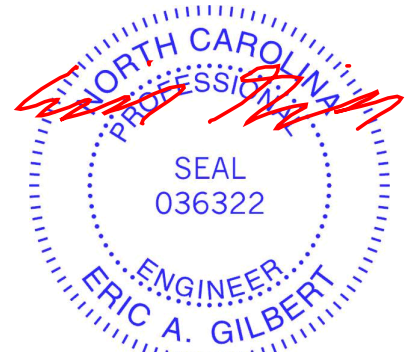
REACTIONS (size)
12=14-0-0, 13=14-0-0, 14=14-0-0, 15=14-0-0, 17=14-0-0, 18=14-0-0, 19=14-0-0, 20=14-0-0, 21=14-0-0
Max Horiz 21=120 (LC 9)
Max Uplift 12=89 (LC 9), 13=103 (LC 13), 14=67 (LC 13), 15=69 (LC 13), 18=70 (LC 12), 19=66 (LC 12), 20=112 (LC 9), 21=105 (LC 8)
Max Grav 12=196 (LC 19), 13=153 (LC 11), 14=170 (LC 20), 15=177 (LC 20), 17=201 (LC 22), 18=177 (LC 19), 19=169 (LC 19), 20=165 (LC 10), 21=208 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=66/105, 2-3=77/106, 3-4=38/106, 4-5=58/117, 5-6=100/134, 6-7=100/128, 7-8=58/113, 8-9=29/102, 9-10=66/97, 10-11=58/99
BOT CHORD 1-21=83/71, 20-21=78/63, 19-20=78/63, 18-19=78/63, 17-18=78/63, 15-17=78/63, 14-15=78/63, 13-14=78/63, 12-13=78/63, 11-12=78/63
WEBS 6-17=160/0, 5-18=137/81, 4-19=129/82, 3-20=113/87, 7-15=137/81, 8-14=130/82, 9-13=109/83, 2-21=101/60, 10-12=98/60

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 8-4-0, Corner (3) 8-4-0 to 11-4-0, Exterior (2) 11-4-0 to 16-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 18, 66 lb uplift at joint 19, 112 lb uplift at joint 20, 69 lb uplift at joint 15, 67 lb uplift at joint 14, 103 lb uplift at joint 13, 105 lb uplift at joint 21 and 89 lb uplift at joint 12.
- Non Standard bearing condition. Review required.
- 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) Standard



August 26, 2024

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

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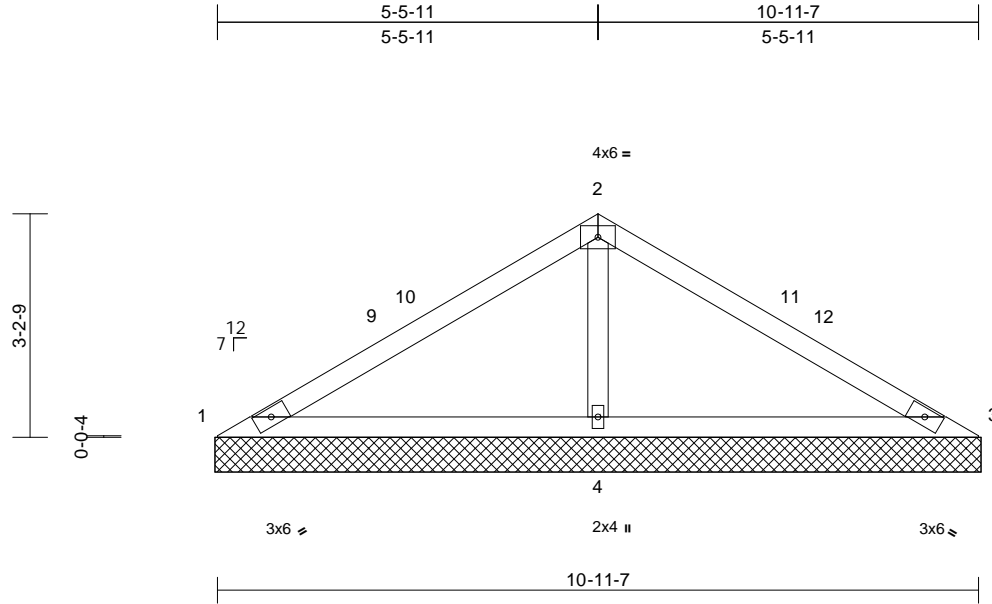
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss CV1	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792579
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:19
ID:s5MgwnBxwa3lynjgYwdDCMyk1PV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 37 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

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

REACTIONS	
(size)	1=11-0-5, 3=11-0-5, 4=11-0-5
Max Horiz	1=-75 (LC 8)
Max Uplift	1=-40 (LC 24), 3=-40 (LC 23), 4=-167 (LC 12)
Max Grav	1=70 (LC 23), 3=70 (LC 24), 4=841 (LC 1)

FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-120/434, 2-3=-120/434
BOT CHORD	1-4=-346/153, 3-4=-346/153
WEBS	2-4=-656/214

- 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 4-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 9) All bearings are assumed to be SP No.2 .
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1, 40 lb uplift at joint 3 and 167 lb uplift at joint 4.
 - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - 12) 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)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-6-2, Exterior (2) 5-6-2 to 8-6-2, Interior (1) 8-6-2 to 11-0-5 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.



August 26, 2024

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

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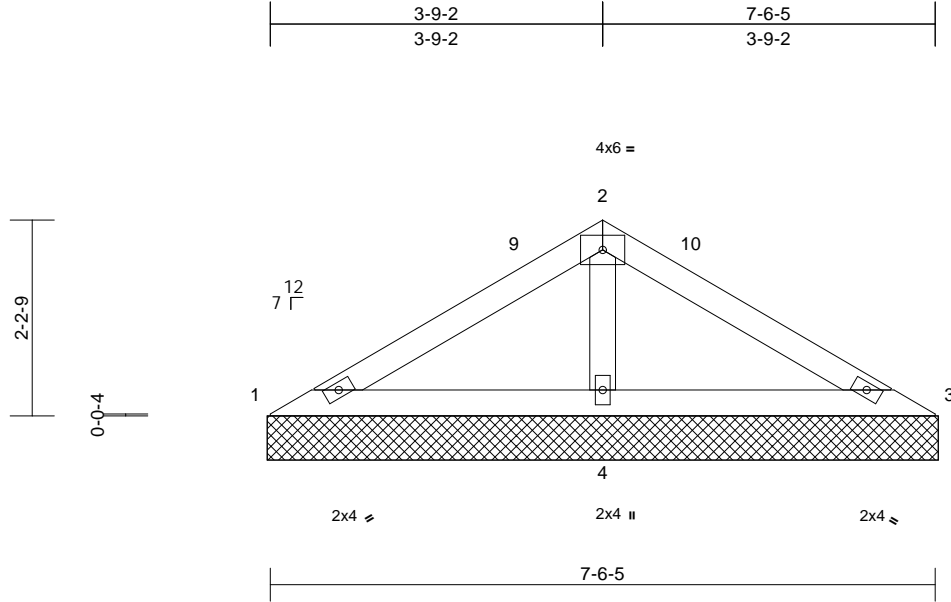
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss CV2	Truss Type Valley	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792580
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:19
ID:ddribXly113dw0KD0bm5X2yk1PN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

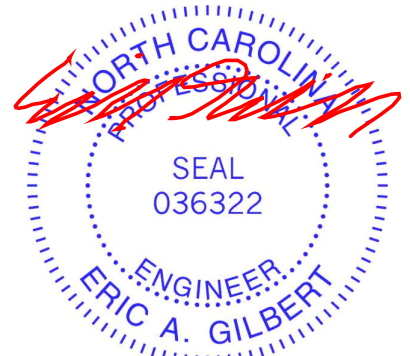
TOP CHORD Structural wood sheathing directly applied or 7-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=7-7-2, 3=7-7-2, 4=7-7-2
Max Horiz 1=-51 (LC 10)
Max Uplift 1=-9 (LC 12), 3=-17 (LC 13), 4=-98 (LC 12)
Max Grav 1=72 (LC 23), 3=72 (LC 24), 4=516 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-71/236, 2-3=-71/236
BOT CHORD 1-4=-203/106, 3-4=-203/106
WEBS 2-4=-364/128

- 6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 17 lb uplift at joint 3 and 98 lb uplift at joint 4.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
12) 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)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-9-9, Exterior (2) 3-9-9 to 6-6-3, Interior (1) 6-6-3 to 7-7-2 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.



August 26, 2024

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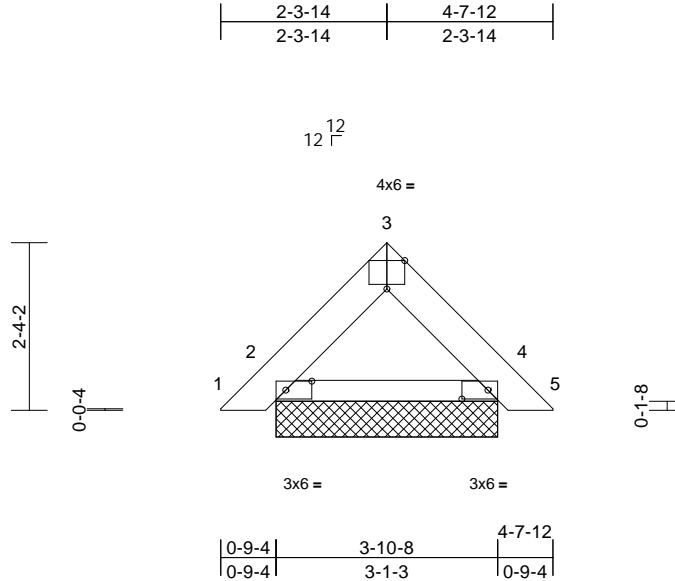
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss PB1	Truss Type Piggyback	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792581
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:19
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Page: 1



Scale = 1:32.2

Plate Offsets (X, Y): [2:0-4-6,0-1-8], [3:0-3-0,Edge], [4:0-4-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

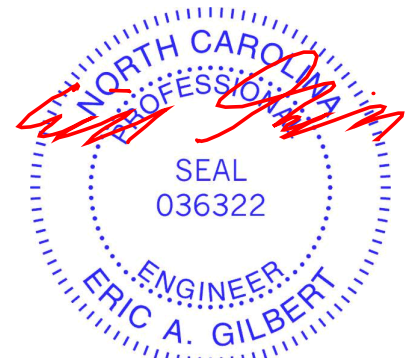
LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 2=3-1-3, 4=3-1-3, 6=3-1-3, 9=3-1-3
Max Horiz 2=-50 (LC 10), 6=-50 (LC 10)
Max Uplift 2=-28 (LC 12), 4=-28 (LC 13), 6=-28 (LC 12), 9=-28 (LC 13)
Max Grav 2=152 (LC 1), 4=152 (LC 1), 6=152 (LC 1), 9=152 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-82/36, 3-4=-82/36, 4-5=0/19
BOT CHORD 2-4=-30/63

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 28 lb uplift at joint 4, 28 lb uplift at joint 2 and 28 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.



August 26, 2024

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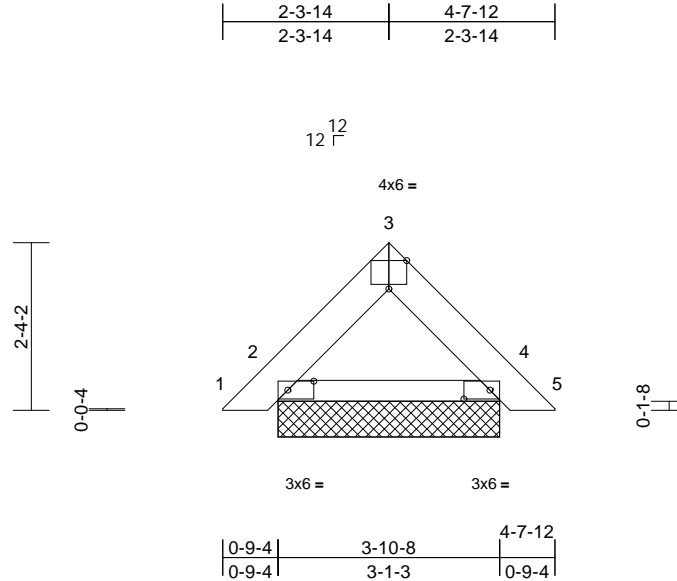
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss PB2	Truss Type Piggyback	Qty 10	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792582
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:19
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Page: 1



Scale = 1:32.2

Plate Offsets (X, Y): [2:0-4-6,0-1-8], [3:0-3-0,Edge], [4:0-4-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=3-1-3, 4=3-1-3, 6=3-1-3, 9=3-1-3
Max Horiz 2=-50 (LC 10), 6=-50 (LC 10)
Max Uplift 2=-28 (LC 12), 4=-28 (LC 13), 6=-28 (LC 12), 9=-28 (LC 13)
Max Grav 2=152 (LC 1), 4=152 (LC 1), 6=152 (LC 1), 9=152 (LC 1)

FORCES

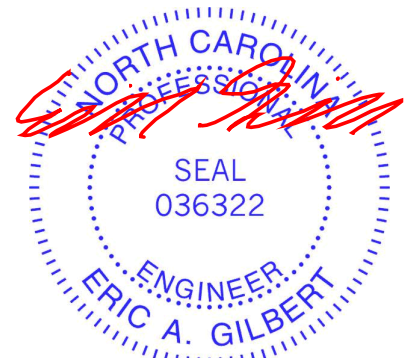
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-82/36, 3-4=-82/36, 4-5=0/19
BOT CHORD 2-4=-30/63

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 28 lb uplift at joint 4, 28 lb uplift at joint 2 and 28 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 26, 2024

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ENGINEERING BY
TRENCO
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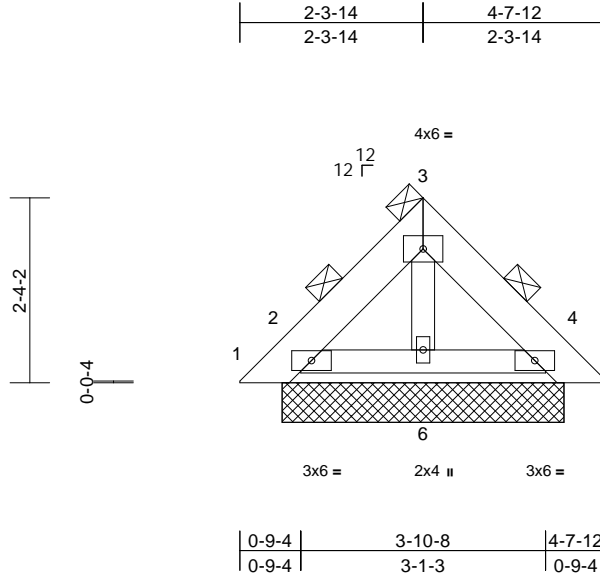
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss PB3	Truss Type Piggyback	Qty 1	Ply 2	Aslakson SC 1913 Job Reference (optional)	167792583
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:20
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Page: 1



Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 44 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

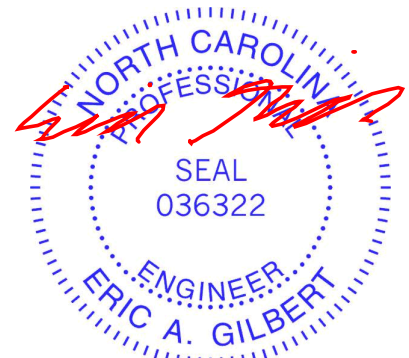
REACTIONS (size) 1=3-6-14, 2=3-6-14, 4=3-6-14,
 5=3-6-14, 6=3-6-14, 7=3-6-14,
 10=3-6-14
 Max Horiz 1=-75 (LC 8)
 Max Uplift 1=-69 (LC 10), 2=-105 (LC 12),
 4=-81 (LC 13), 5=-12 (LC 11),
 7=-105 (LC 12), 10=-81 (LC 13)
 Max Grav 1=73 (LC 9), 2=235 (LC 19), 4=192
 (LC 20), 5=27 (LC 13), 6=120 (LC
 1), 7=235 (LC 19), 10=192 (LC 20)

FORCES (lb) - Maximum Compression/Maximum
 Tension
 TOP CHORD 1-2=-104/125, 2-3=-82/59, 3-4=-73/55,
 4-5=-18/46
 BOT CHORD 2-6=-27/59, 4-6=-27/59
 WEBS 3-6=-59/3

- NOTES**
- 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as
 follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as
 follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies,
 except if noted as front (F) or back (B) face in the LOAD
 CASE(S) section. Ply to ply connections have been
 provided to distribute only loads noted as (F) or (B),
 unless otherwise indicated.
 - Unbalanced roof live loads have been considered for
 this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat.
 II; Exp B; Enclosed; MWFRS (envelope) exterior zone
 and C-C Exterior (2) zone; cantilever left and right
 exposed ;C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- Truss designed for wind loads in the plane of the truss
 only. For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for
 verifying Rain Load = 5.0 (psf) covers rain loading
 requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- All bearings are assumed to be SP No.2 .
- Bearing at joint(s) 1, 5, 2, 4, 2, 4 considers parallel to
 grain value using ANSI/TPI 1 angle to grain formula.
 Building designer should verify capacity of bearing
 surface.
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 69 lb uplift at joint
 1, 12 lb uplift at joint 5, 105 lb uplift at joint 2, 81 lb uplift
 at joint 4, 105 lb uplift at joint 2 and 81 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection
 Detail for Connection to base truss as applicable, or
 consult qualified building designer.
- Graphical purlin representation does not depict the size
 or the orientation of the purlin along the top and/or
 bottom chord.

LOAD CASE(S) Standard



August 26, 2024

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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

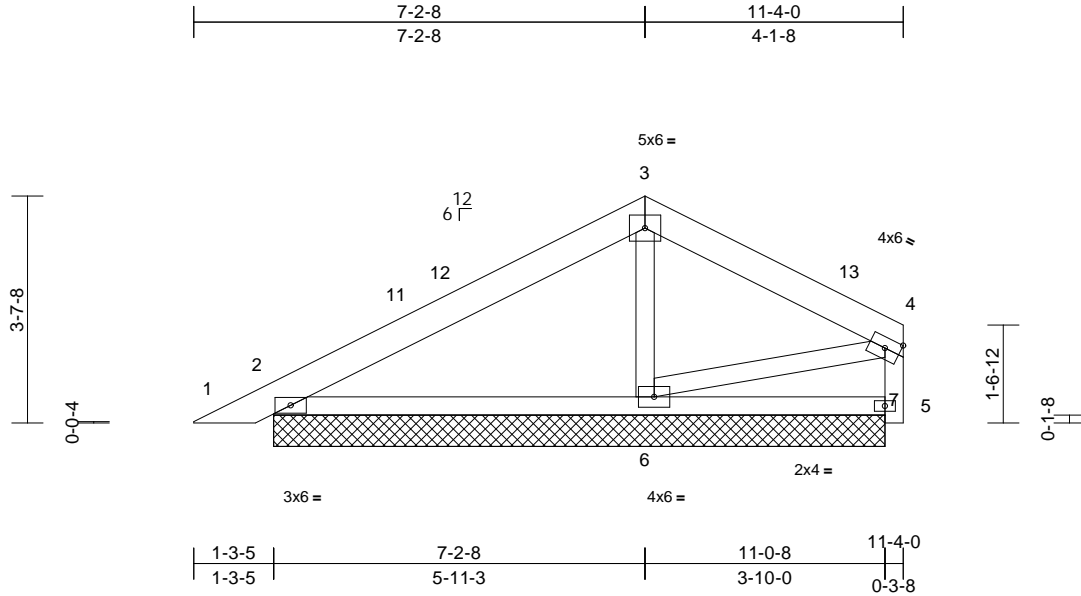
818 Soundside Road
 Edenton, NC 27932

Job P03440-15869	Truss PB4	Truss Type Piggyback	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792584
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 E Jul 25 2024 Print: 8.810 E Jul 25 2024 MiTek Industries, Inc. Mon Aug 26 16:09:34
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Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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 (lb/size) 2=326/9-9-3, 5=217/9-9-3, 6=296/9-9-3, 7=0/9-9-3, 8=326/9-9-3
Max Horiz 2=84 (LC 12), 8=84 (LC 12)
Max Uplift 2=-88 (LC 12), 5=-54 (LC 13), 6=-23 (LC 12), 8=-88 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-11=-192/71, 11-12=-148/74, 3-12=-143/91, 3-13=-111/94, 4-13=-191/78, 5-7=0/0, 4-5=-193/87
BOT CHORD 2-6=-61/132, 5-6=-12/32
WEBS 3-6=-201/84, 4-6=-53/121

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-6-6 to 3-6-6, Interior (1) 3-6-6 to 7-3-0, Exterior (2) 7-3-0 to 10-3-0, Interior (1) 10-3-0 to 11-2-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2, 54 lb uplift at joint 5, 23 lb uplift at joint 6 and 88 lb uplift at joint 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 26, 2024

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



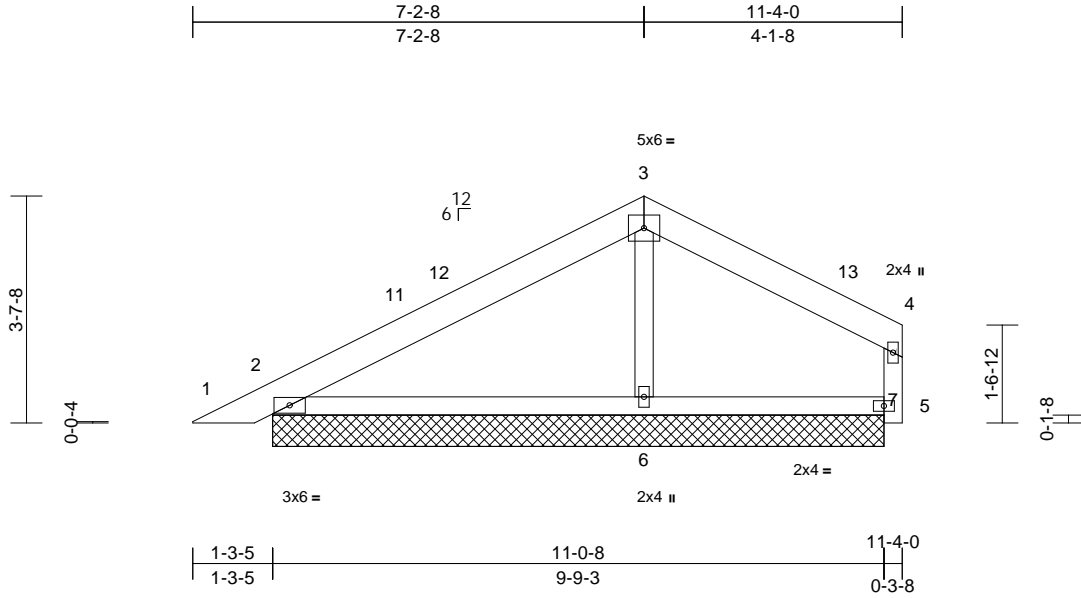
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss PB5	Truss Type Piggyback	Qty 10	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792585
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84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Mon Aug 26 08:58:20
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Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.3
- OTHERS 2x4 SP No.3

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) 2=9-9-3, 5=9-9-3, 6=9-9-3, 7=9-9-3, 8=9-9-3
- Max Horiz 2=84 (LC 12), 8=84 (LC 12)
- Max Uplift 2=-64 (LC 12), 5=-62 (LC 13), 6=-81 (LC 12), 8=-64 (LC 12)
- Max Grav 2=277 (LC 1), 5=159 (LC 24), 6=420 (LC 1), 8=277 (LC 1)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/21, 2-3=-94/79, 3-4=-91/67, 5-7=0/0, 4-5=-130/75
- BOT CHORD 2-6=-47/49, 5-6=-14/37
- WEBS 3-6=-295/125

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-6-6 to 3-6-6, Interior (1) 3-6-6 to 7-3-0, Exterior (2) 7-3-0 to 10-3-0, Interior (1) 10-3-0 to 11-2-12 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2, 62 lb uplift at joint 5, 81 lb uplift at joint 6 and 64 lb uplift at joint 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 26, 2024

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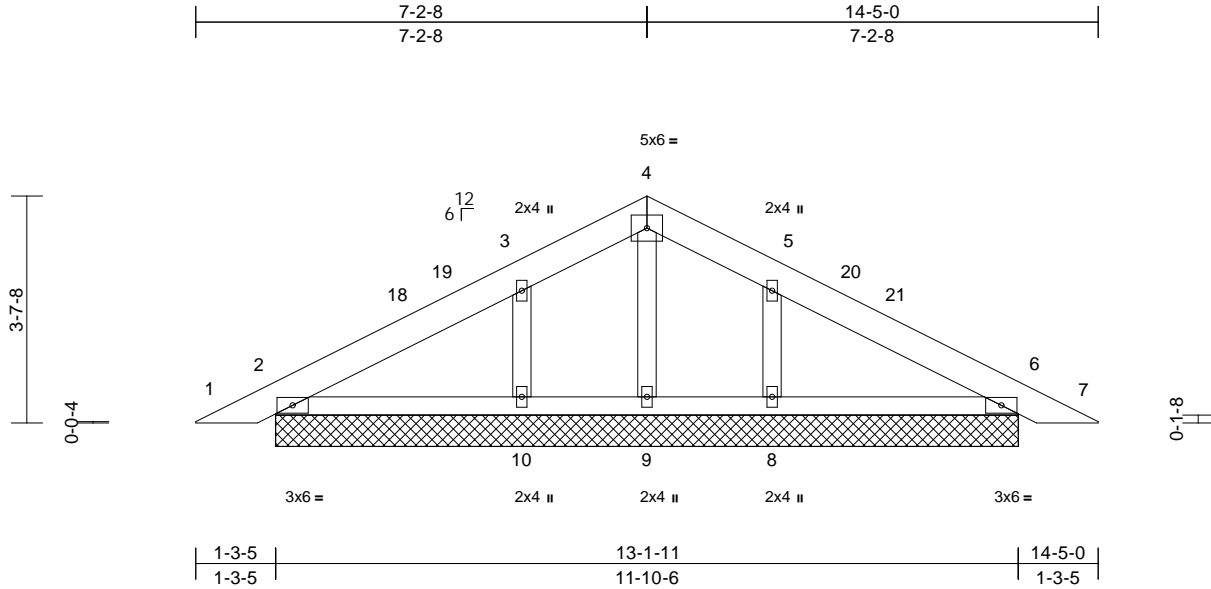
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss PB6	Truss Type Piggyback	Qty 1	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792586
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84 Components (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 65 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=11-10-6, 6=11-10-6, 8=11-10-6, 9=11-10-6, 10=11-10-6, 11=11-10-6, 15=11-10-6
Max Horiz 2=56 (LC 16), 11=56 (LC 16)
Max Uplift 2=-41 (LC 12), 6=-54 (LC 13), 8=-116 (LC 13), 10=-119 (LC 12), 11=-41 (LC 12), 15=-54 (LC 13)
Max Grav 2=204 (LC 1), 6=204 (LC 1), 8=311 (LC 24), 9=70 (LC 13), 10=311 (LC 23), 11=204 (LC 1), 15=204 (LC 1)

FORCES

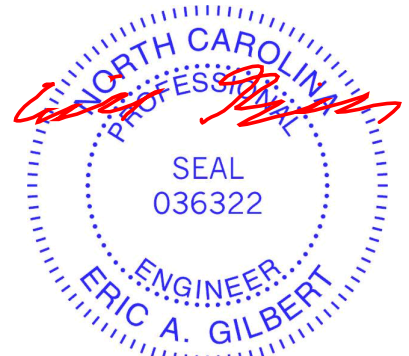
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-70/62, 3-4=-89/100, 4-5=-89/105, 5-6=-67/50, 6-7=0/21
BOT CHORD 2-10=-19/55, 9-10=0/55, 8-9=0/55, 6-8=-3/55
WEBS 4-9=-57/38, 3-10=-232/128, 5-8=-232/127

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-6-6 to 3-6-6, Interior (1) 3-6-6 to 7-3-0, Exterior (2) 7-3-0 to 10-3-0, Interior (1) 10-3-0 to 13-11-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2, 54 lb uplift at joint 6, 119 lb uplift at joint 10, 116 lb uplift at joint 8, 41 lb uplift at joint 2 and 54 lb uplift at joint 6.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 26, 2024

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



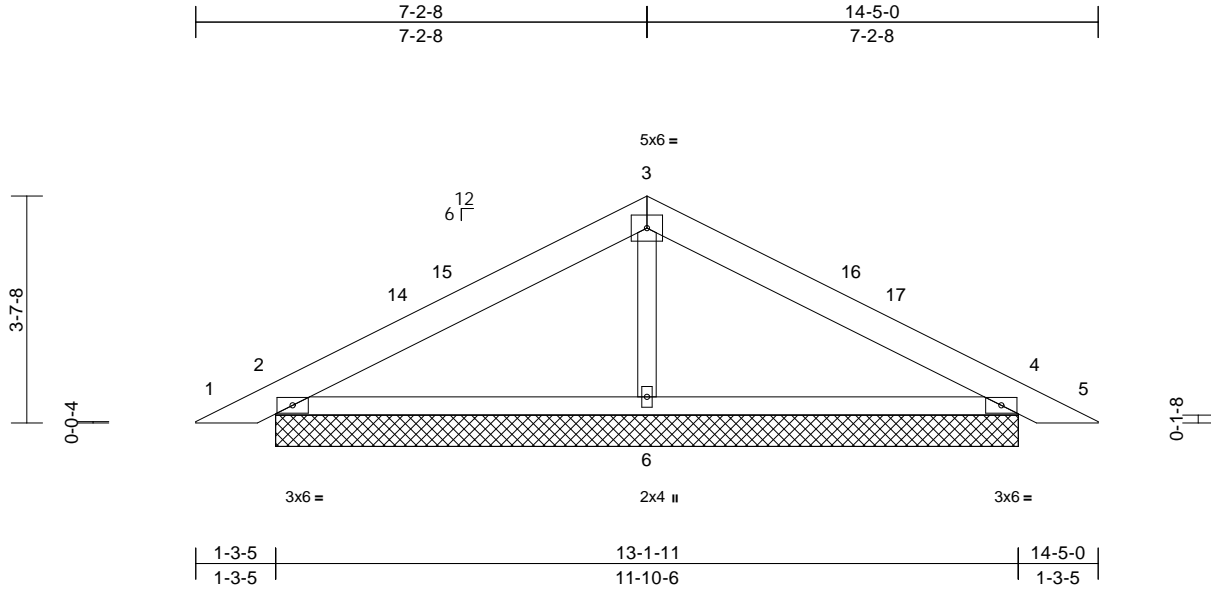
818 Soundside Road
Edenton, NC 27932

Job P03440-15869	Truss PB7	Truss Type Piggyback	Qty 9	Ply 1	Aslakson SC 1913 Job Reference (optional)	167792587
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84 Components (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 59 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=11-10-6, 4=11-10-6, 6=11-10-6, 7=11-10-6, 11=11-10-6
Max Horiz 2=56 (LC 12), 7=56 (LC 12)
Max Uplift 2=95 (LC 12), 4=108 (LC 13), 6=25 (LC 12), 7=95 (LC 12), 11=108 (LC 13)
Max Grav 2=344 (LC 1), 4=344 (LC 1), 6=355 (LC 1), 7=344 (LC 1), 11=344 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

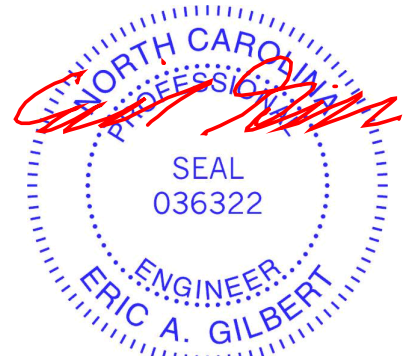
TOP CHORD 1-2=0/21, 2-3=-249/131, 3-4=-249/137, 4-5=0/21
BOT CHORD 2-6=-51/184, 4-6=-35/184
WEBS 3-6=-205/53

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-6-6 to 3-6-6, Interior (1) 3-6-6 to 7-3-0, Exterior (2) 7-3-0 to 10-3-0, Interior (1) 10-3-0 to 13-11-10 zone; cantilever left and right exposed ;C-C for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2, 108 lb uplift at joint 4, 25 lb uplift at joint 6, 95 lb uplift at joint 2 and 108 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 26, 2024

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

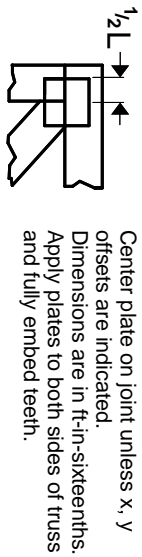
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



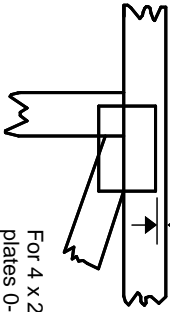
818 Soundside Road
Edenton, NC 27932

Symbols

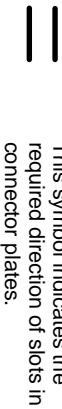
PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

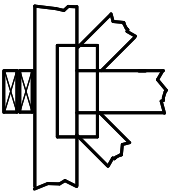
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

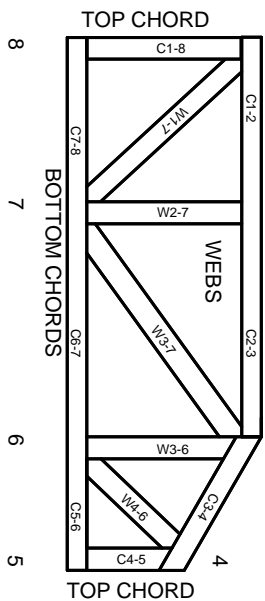
Industry Standards:

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

Numbering System



1 TOP CHORDS
2 JOINT ID TYP.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.