

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 4293514
4293514-BRAD CUMMINGS- WILDER

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

Pages or sheets covered by this seal: I70360524 thru I70360551

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

North Carolina COA: C-0844



December 23,2024

Gilbert, Eric

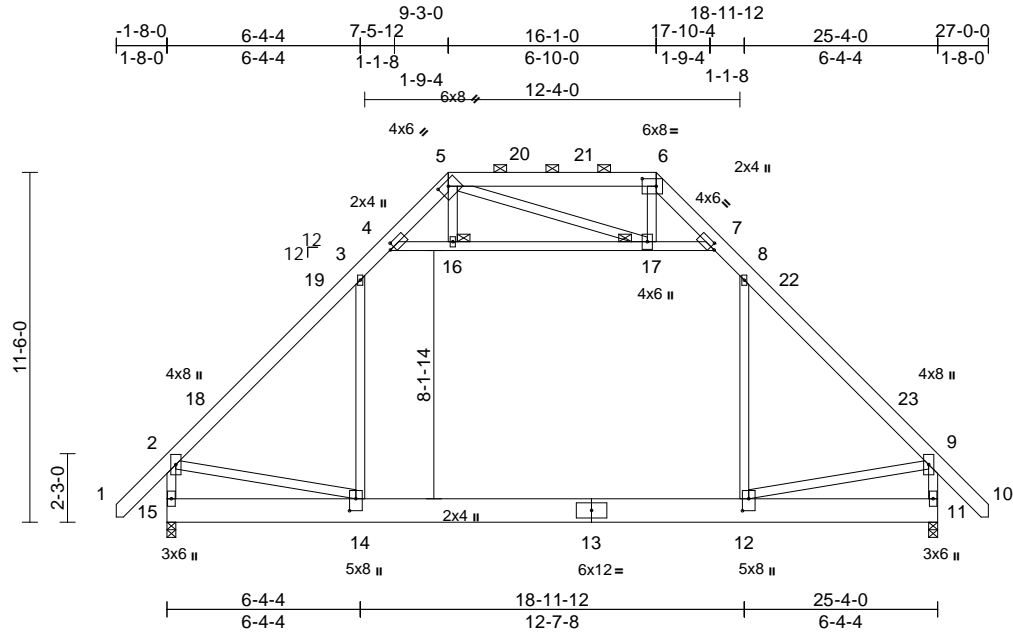
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 4293514	Truss A01	Truss Type Attic	Qty 2	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360524
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

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Page: 1



Scale = 1:75.7

Plate Offsets (X, Y): [4:0-1-13,0-2-0], [5:0-3-12,0-2-0], [6:0-5-8,0-3-0], [7:0-1-13,0-2-0], [12:0-4-12,0-2-8], [14:0-4-12,0-2-8]

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	0.53	Vert(LL)	-0.15	12-14	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.22	12-14	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	12-14	>999	240		
BCDL	10.0										Weight: 263 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS
1 Brace at Jt(s): 16, 17

REACTIONS (size) 11=0-3-8, 15=0-3-8
Max Horiz 15=229 (LC 11)
Max Grav 11=1590 (LC 42), 15=1590 (LC 42)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/79, 2-3=-1703/0, 3-4=-1022/7, 4-5=-572/97, 5-6=-381/121, 6-7=-565/100, 7-8=-1023/7, 8-9=-1701/0, 9-10=0/79, 2-15=-1642/0, 9-11=-1641/0
BOT CHORD 14-15=-230/305, 12-14=0/1132, 11-12=-50/134
WEBS 3-14=0/743, 8-12=0/740, 4-16=-1153/46, 16-17=-1146/48, 7-17=-1170/46, 2-14=0/1089, 9-12=0/1092, 5-16=0/84, 5-17=-60/48, 6-17=0/93

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member (s).3-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- NOTES (13)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60



December 23, 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.sbccomponents.com)



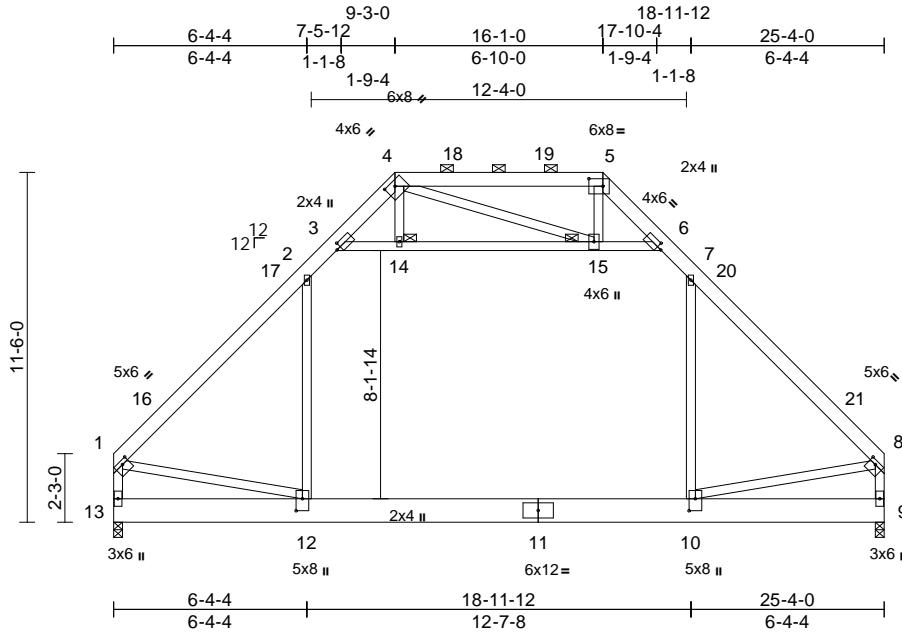
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss A01A	Truss Type Attic	Qty 5	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360525
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

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Page: 1



Scale = 1:75.7

Plate Offsets (X, Y): [1:0-2-12,0-1-8], [3:0-1-13,0-2-0], [4:0-3-12,0-2-0], [5:0-5-8,0-3-0], [6:0-1-13,0-2-0], [8:0-2-12,0-1-8], [10:0-4-12,0-2-8], [12:0-4-12,0-2-8]

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	0.56	Vert(LL)	-0.15	10-12	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.22	10-12	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	10-12	>999	240		
BCDL	10.0										Weight: 253 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.2

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

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

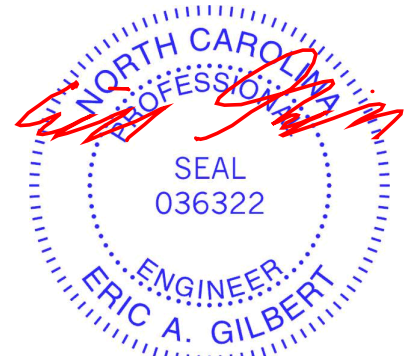
REACTIONS (size) 9=0-3-8, 13=0-3-8
Max Horiz 13=193 (LC 8)
Max Grav 9=1527 (LC 41), 13=1527 (LC 41)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1707/0, 2-3=-1028/6, 3-4=-567/97, 4-5=-374/122, 5-6=-560/99, 6-7=-1029/6, 7-8=-1706/0, 1-13=-1580/0, 8-9=-1579/0
BOT CHORD 12-13=-221/262, 10-12=0/1124, 9-10=-54/114
WEBS 2-12=0/740, 7-10=0/736, 3-14=-1172/48, 14-15=-1165/50, 6-15=-1189/49, 1-12=0/1094, 8-10=0/1096, 4-14=0/85, 4-15=-55/45, 5-15=0/92

NOTES (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 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 (5.0psf) 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
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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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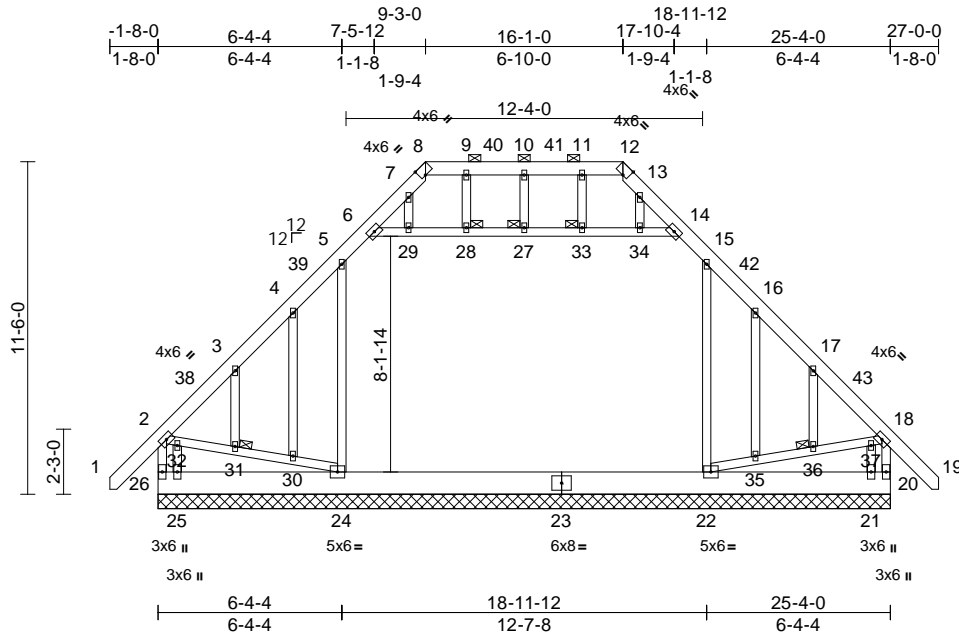
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss A01E	Truss Type Attic Supported Gable	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360526
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 1



Scale = 1:79.7

Plate Offsets (X, Y): [8:0-2-2,Edge], [12:0-2-2,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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 286 lb	FT = 20%

LUMBER	TOP CHORD	2x6 SP No.2
	BOT CHORD	2x10 SP 2400F 2.0E or 2x10 SP DSS
	WEBS	2x4 SP No.2
	OTHERS	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 (6-0-0 max.): 8-12.
	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 22-24.
	JOINTS	1 Brace at Jt(s): 27, 28, 31, 33, 36
REACTIONS	(size)	20=25-4-0, 21=25-4-0, 22=25-4-0, 24=25-4-0, 25=25-4-0, 26=25-4-0
	Max Horiz	26=230 (LC 11)
	Max Uplift	20=40 (LC 9), 21=503 (LC 19), 22=56 (LC 13), 24=61 (LC 12), 25=503 (LC 19), 26=51 (LC 8)
	Max Grav	20=742 (LC 30), 21=131 (LC 36), 22=1151 (LC 46), 24=1156 (LC 44), 25=131 (LC 36), 26=749 (LC 29)
FORCES	(lb) - Maximum Compression/Maximum Tension	
	TOP CHORD	2-26=-358/93, 1-2=0/79, 2-3=-370/102, 3-4=-325/105, 4-5=-240/124, 5-6=-459/51, 6-7=-677/86, 7-8=-572/81, 8-9=-515/67, 9-10=-515/67, 10-11=-515/67, 11-12=-515/67, 12-13=-572/82, 13-14=-677/86, 14-15=-459/47, 15-16=-240/117, 16-17=-320/96, 17-18=-366/94, 18-19=0/79, 18-20=-354/86
	BOT CHORD	25-26=-211/247, 24-25=-211/247, 22-24=-85/304, 21-22=-17/64, 20-21=-17/64

WEBS	2-32=-158/328, 31-32=-103/296, 30-31=-111/296, 24-30=-120/319, 5-24=-644/137, 15-22=-644/133, 22-35=-117/317, 35-36=-108/294, 36-37=-100/294, 18-37=-155/326, 6-29=-20/309, 28-29=-20/311, 27-28=-20/311, 27-33=-20/311, 33-34=-20/311, 14-34=-20/309, 10-27=-42/20, 9-28=0/27, 7-29=-12/92, 4-30=-23/76, 3-31=-101/54, 25-32=-260/175, 11-33=0/27, 13-34=-12/92, 16-35=-23/76, 17-36=-101/54, 21-37=-260/175
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- NOTES (18)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s), 5-6, 14-15, 6-29, 28-29, 27-28, 27-33, 33-34, 14-34; Wall dead load (5.0psf) on member(s), 5-24, 15-22
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 26, 40 lb uplift at joint 20, 61 lb uplift at joint 24, 56 lb uplift at joint 22, 503 lb uplift at joint 25 and 503 lb uplift at joint 21.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



December 23, 2024

Continued on page 2

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

Job 4293514	Truss A01E	Truss Type Attic Supported Gable	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER I70360526 Job Reference (optional)
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 2

18) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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/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)



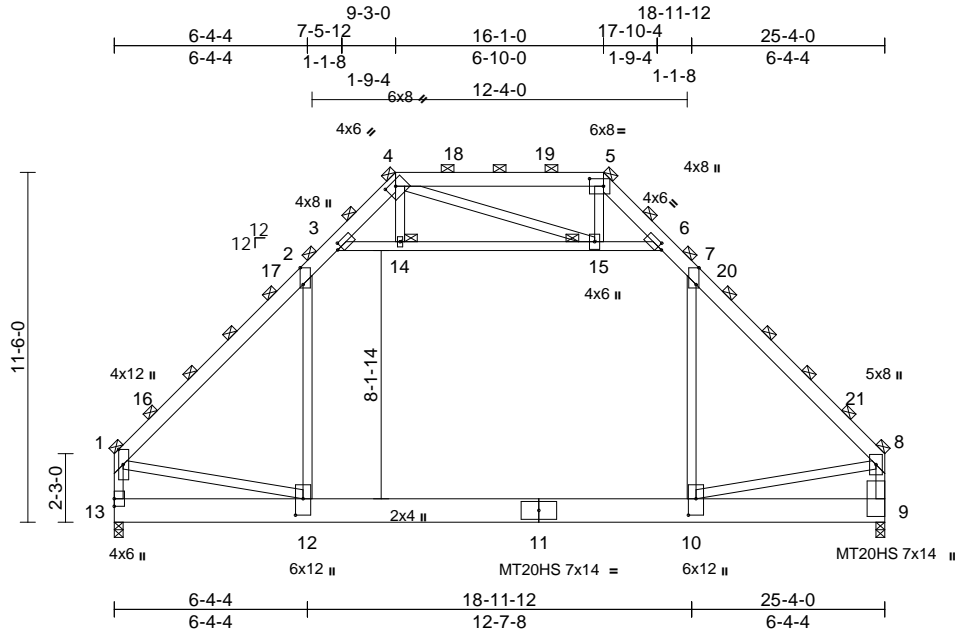
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss A01G	Truss Type Attic Girder	Qty 1	Ply 3	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360527
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:24
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Page: 1



Scale = 1:75.7

Plate Offsets (X, Y): [1:0-6-0,Edge], [2:0-6-10,Edge], [3:0-1-13,0-2-0], [4:0-3-12,0-2-0], [5:0-5-8,0-3-0], [6:0-1-13,0-2-0], [7:0-6-10,Edge], [10:0-6-8,0-3-0], [12:0-6-8,0-3-0]

Loading	(psf)	Spacing	8-6-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.20	10-12	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.30	10-12	>990	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.08	10-12	>999	240		
BCDL	10.0											Weight: 758 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* 4-5:2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.2

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

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

REACTIONS
(size) 9=0-3-8, 13=0-3-8
Max Horiz 13=-821 (LC 8)
Max Grav 9=7849 (LC 42), 13=6682 (LC 42)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-7676/0, 2-3=-4617/0, 3-4=-2417/433, 4-5=-1618/525, 5-6=-2394/433, 6-7=-4570/0, 7-8=-7733/0, 1-13=-7108/0, 8-9=-7146/0
BOT CHORD 12-13=-944/1080, 10-12=0/5090, 9-10=-162/562
WEBS 2-12=0/3448, 7-10=0/3636, 3-14=-5405/71, 14-15=-5377/81, 6-15=-5358/118, 1-12=0/5049, 8-10=0/4892, 4-14=0/372, 4-15=-230/272, 5-15=0/366

NOTES (15)
1) 3-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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates 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 1-00-00 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 (5.0psf) 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
- Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-183, 2-3=-226, 3-4=-183, 4-5=-226, 5-6=-183, 6-7=-226, 7-8=-183, 12-13=-85, 10-12=-128, 9-10=-170, 3-14=-42, 14-15=-42, 6-15=-42
Drag: 2-12=-42, 7-10=-42
 - Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)



December 23, 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)



818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss A01G	Truss Type Attic Girder	Qty 1	Ply 3	4293514-BRAD CUMMINGS- WILDER I70360527 Job Reference (optional)
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:24
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Page: 2

Vert: 1-2=-213, 2-3=-255, 3-4=-212, 4-5=-213,
5-6=-213, 6-7=-255, 7-8=-213, 12-13=-85,
10-12=-382, 9-10=-335, 3-14=-42, 14-15=-42,
6-15=-42
Drag: 2-12=-42, 7-10=-42

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)



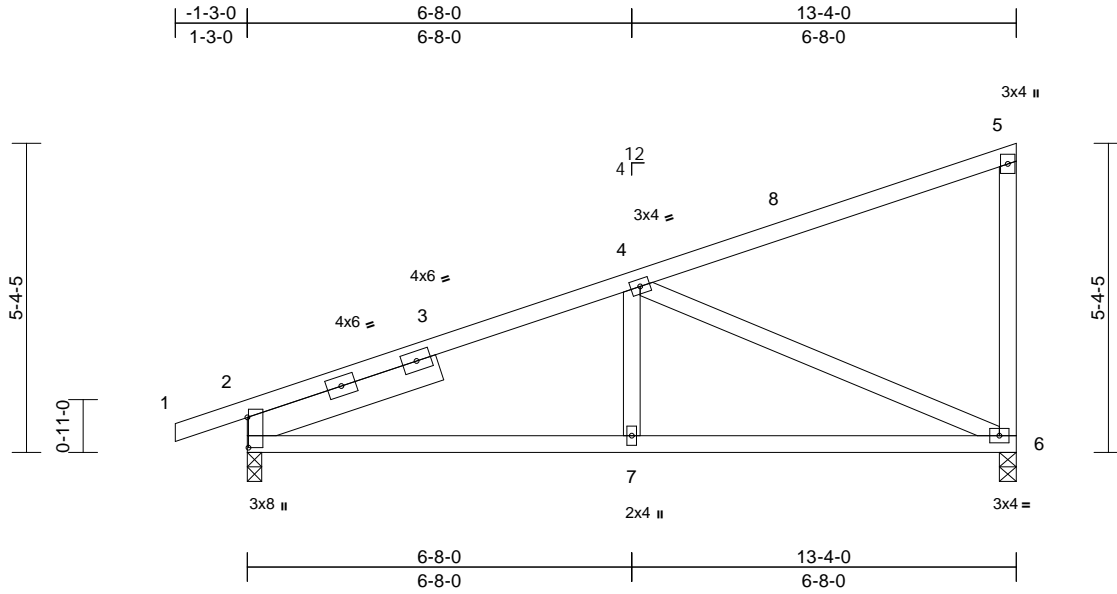
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss M01	Truss Type Monopitch	Qty 8	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	I70360528
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:25
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Page: 1



Scale = 1:40

Plate Offsets (X, Y): [2:0-6-5,0-0-4]

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	0.37	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	6-7	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	2-7	>999	240		
BCDL	10.0										Weight: 72 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.1
- BOT CHORD 2x4 SP No.1
- WEBS 2x4 SP No.2
- SLIDER Left 2x6 SP No.2 -- 3-6-7

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=0-3-0, 6=0-3-8
- Max Horiz 2=159 (LC 12)
- Max Uplift 2=-173 (LC 8), 6=-192 (LC 8)
- Max Grav 2=606 (LC 2), 6=524 (LC 2)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-13/0, 2-4=-824/181, 4-5=-90/34, 5-6=-169/67
- BOT CHORD 2-7=-268/704, 6-7=-268/704
- WEBS 4-7=-28/298, 4-6=-745/285

NOTES (8)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.

- 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 1-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 6 and 173 lb uplift at joint 2.
- 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 2024

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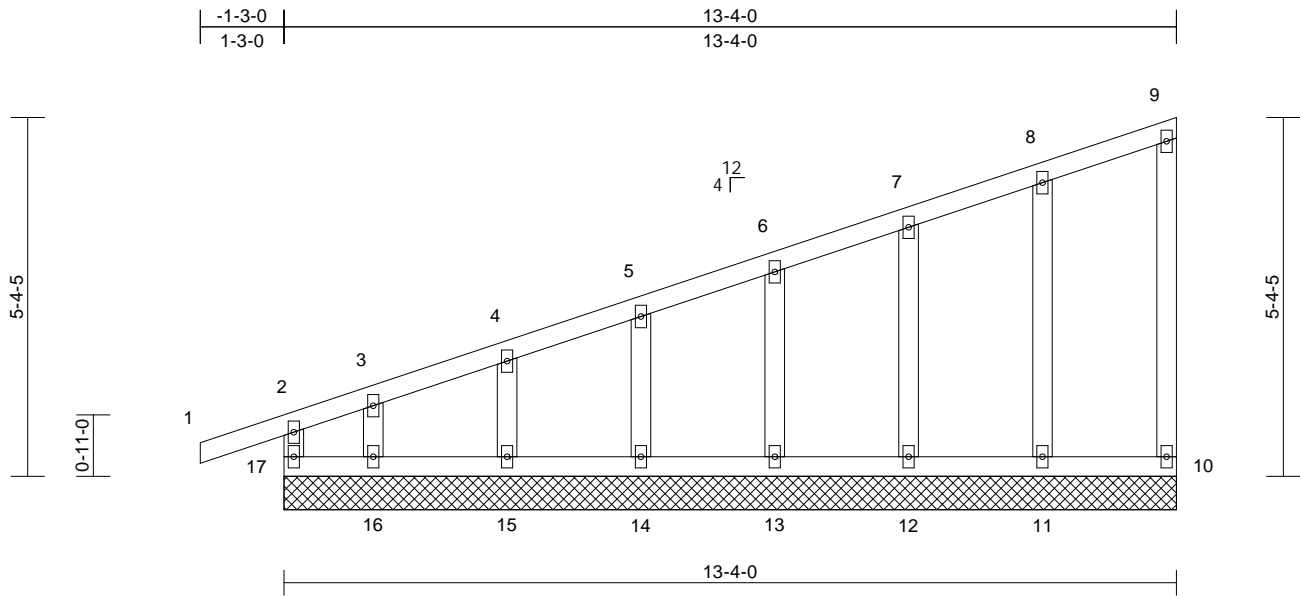
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss M01E	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360529
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

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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	0.10	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R							
BCDL	10.0									Weight: 73 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2
OTHERS	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.

REACTIONS	
(size)	10=13-4-0, 11=13-4-0, 12=13-4-0, 13=13-4-0, 14=13-4-0, 15=13-4-0, 16=13-4-0, 17=13-4-0
Max Horiz	17=164 (LC 8)
Max Uplift	10=-12 (LC 12), 11=-23 (LC 8), 12=-26 (LC 12), 13=-24 (LC 8), 14=-28 (LC 12), 15=-15 (LC 8), 16=-117 (LC 12)
Max Grav	10=74 (LC 3), 11=216 (LC 3), 12=168 (LC 3), 13=161 (LC 2), 14=157 (LC 2), 15=172 (LC 2), 16=85 (LC 7), 17=172 (LC 2)

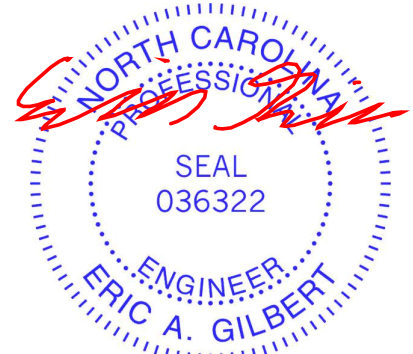
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-17=-154/0, 1-2=0/29, 2-3=-160/0, 3-4=-128/21, 4-5=-106/18, 5-6=-82/18, 6-7=-59/18, 7-8=-36/18, 8-9=-22/10, 9-10=-45/20
BOT CHORD	16-17=-1/1, 15-16=-1/1, 14-15=-1/1, 13-14=-1/1, 12-13=-1/1, 11-12=-1/1, 10-11=-1/1
WEBS	8-11=-126/50, 7-12=-119/49, 6-13=-121/49, 5-14=-118/50, 4-15=-130/46, 3-16=-53/90

NOTES (13)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 10, 23 lb uplift at joint 11, 26 lb uplift at joint 12, 24 lb uplift at joint 13, 28 lb uplift at joint 14, 15 lb uplift at joint 15 and 117 lb uplift at joint 16.

13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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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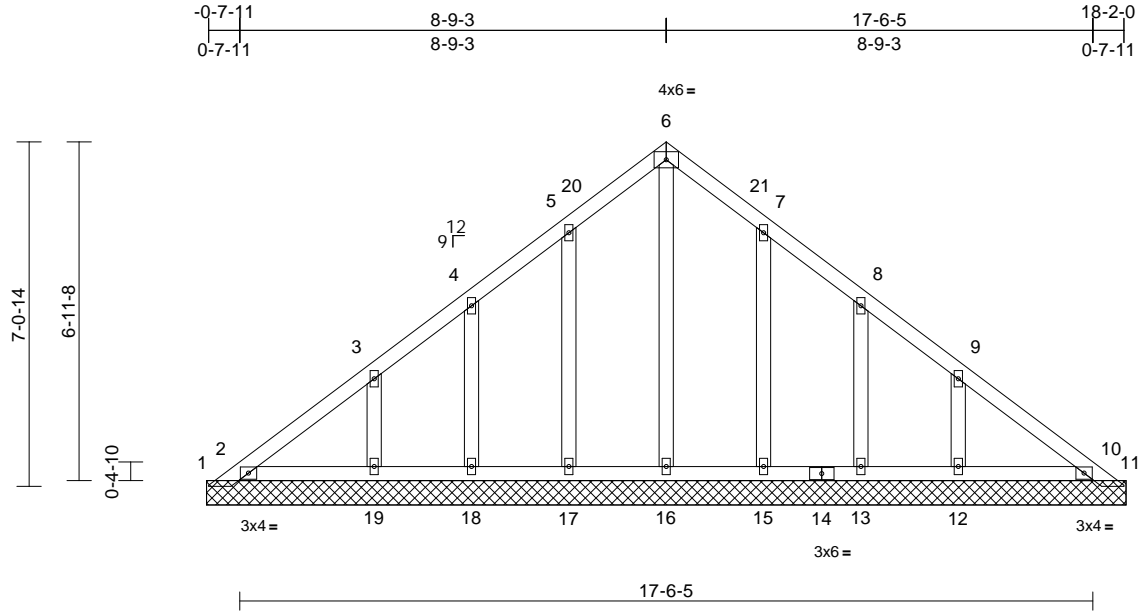
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss PB01	Truss Type Piggyback	Qty 2	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360530
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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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	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 101 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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.

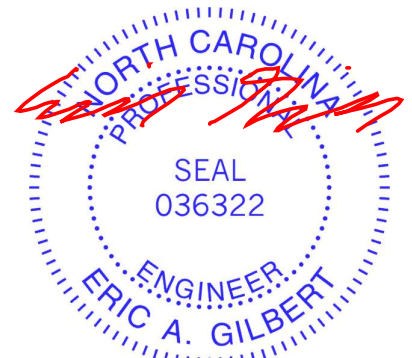
REACTIONS (size)
 1=18-10-11, 2=18-10-11, 10=18-10-11, 11=18-10-11, 12=18-10-11, 13=18-10-11, 15=18-10-11, 16=18-10-11, 17=18-10-11, 18=18-10-11, 19=18-10-11
 Max Horiz 1=145 (LC 8)
 Max Uplift 1=152 (LC 26), 2=45 (LC 12), 10=6 (LC 13), 11=87 (LC 27), 12=68 (LC 13), 13=53 (LC 13), 15=55 (LC 13), 17=56 (LC 12), 18=52 (LC 12), 19=69 (LC 12)
 Max Grav 1=104 (LC 9), 2=259 (LC 26), 10=237 (LC 2), 11=45 (LC 13), 12=210 (LC 27), 13=182 (LC 27), 15=243 (LC 27), 16=213 (LC 29), 17=244 (LC 26), 18=181 (LC 26), 19=211 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=177/208, 2-3=136/109, 3-4=106/76, 4-5=89/93, 5-6=78/125, 6-7=66/114, 7-8=56/61, 8-9=71/29, 9-10=112/62, 10-11=23/61
 BOT CHORD 2-19=52/117, 18-19=52/117, 17-18=52/117, 16-17=52/117, 15-16=52/117, 13-15=52/117, 12-13=52/117, 10-12=52/117

WEBS 6-16=116/3, 5-17=138/81, 4-18=117/74, 3-19=159/99, 7-15=137/80, 8-13=118/75, 9-12=158/98

- NOTES (13)**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 1, 87 lb uplift at joint 11, 45 lb uplift at joint 2, 6 lb uplift at joint 10, 56 lb uplift at joint 17, 52 lb uplift at joint 18, 69 lb uplift at joint 19, 55 lb uplift at joint 15, 53 lb uplift at joint 13 and 68 lb uplift at joint 12.

- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- LOAD CASE(S)** Standard



December 23, 2024

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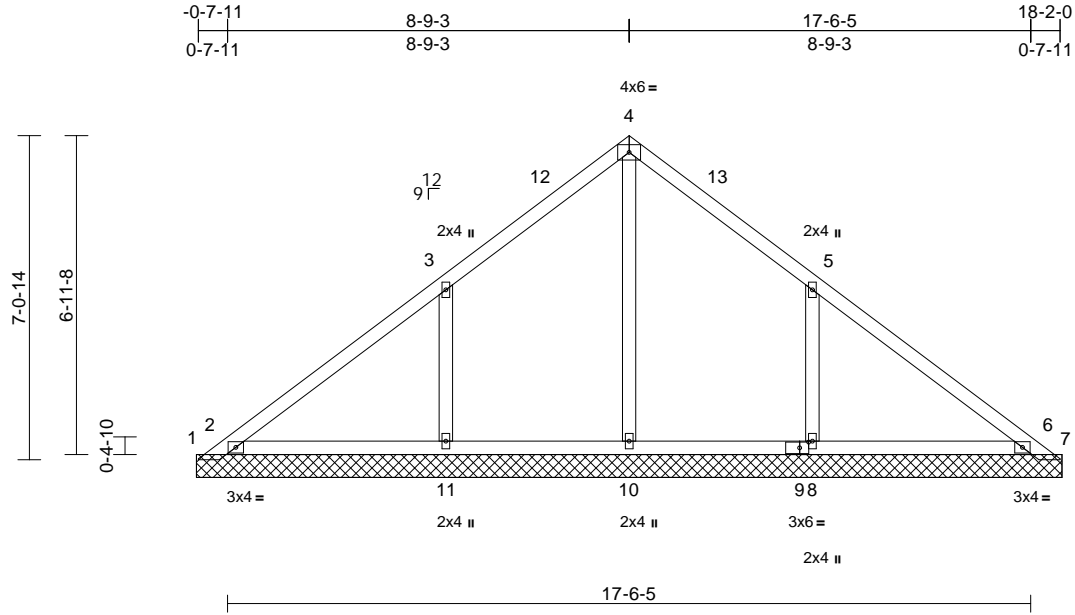
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss PB02	Truss Type Piggyback	Qty 16	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360531
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 1



Scale = 1:50.3

Plate Offsets (X, Y): [9:0-2-6,0-1-8]

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
										Weight: 81 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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)

1=18-10-11, 2=18-10-11, 6=18-10-11, 7=18-10-11, 8=18-10-11, 10=18-10-11, 11=18-10-11
Max Horiz 1=145 (LC 9)
Max Uplift 1=-346 (LC 26), 2=-167 (LC 12), 6=-128 (LC 13), 7=-281 (LC 27), 8=-131 (LC 13), 11=-132 (LC 12)
Max Grav 1=194 (LC 12), 2=537 (LC 26), 6=519 (LC 2), 7=135 (LC 13), 8=449 (LC 27), 10=363 (LC 29), 11=458 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-192/289, 2-3=-170/105, 3-4=-134/125, 4-5=-123/105, 5-6=-136/70, 6-7=-70/162
BOT CHORD 2-11=-47/111, 10-11=-47/111, 8-10=-47/111, 6-8=-47/111
WEBS 4-10=-156/0, 3-11=-303/188, 5-8=-303/187

NOTES (12)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 346 lb uplift at joint 1, 281 lb uplift at joint 2, 167 lb uplift at joint 2, 132 lb uplift at joint 11, 131 lb uplift at joint 8 and 128 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)



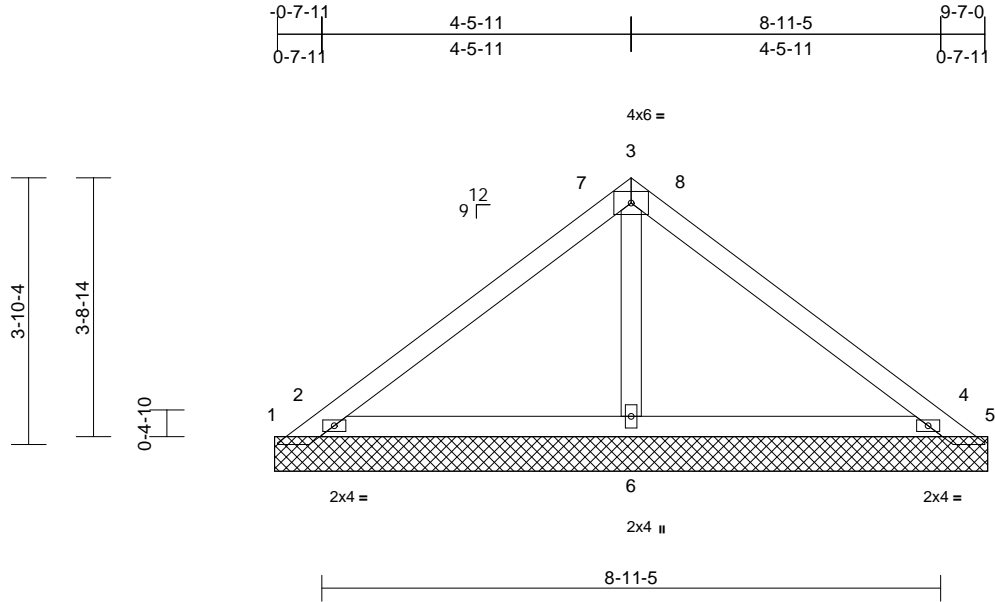
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss PB03	Truss Type Piggyback	Qty 8	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360532
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:26
ID:RBhtr3Jv1tMvGSHFAEvgyMd2J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



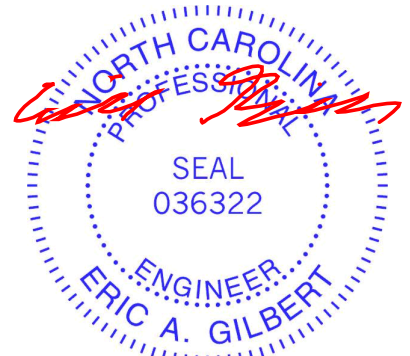
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2
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)	
	1=10-3-11, 2=10-3-11, 4=10-3-11, 5=10-3-11, 6=10-3-11
Max Horiz	1=77 (LC 9)
Max Uplift	1=-378 (LC 26), 2=-299 (LC 12), 4=-278 (LC 13), 5=-343 (LC 27)
Max Grav	1=253 (LC 12), 2=612 (LC 26), 4=588 (LC 27), 5=221 (LC 13), 6=279 (LC 7)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-175/262, 2-3=-135/60, 3-4=-134/44, 4-5=-114/194
BOT CHORD	2-6=-22/56, 4-6=-22/56
WEBS	3-6=-165/20

- NOTES (12)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 1, 343 lb uplift at joint 5, 299 lb uplift at joint 2 and 278 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)

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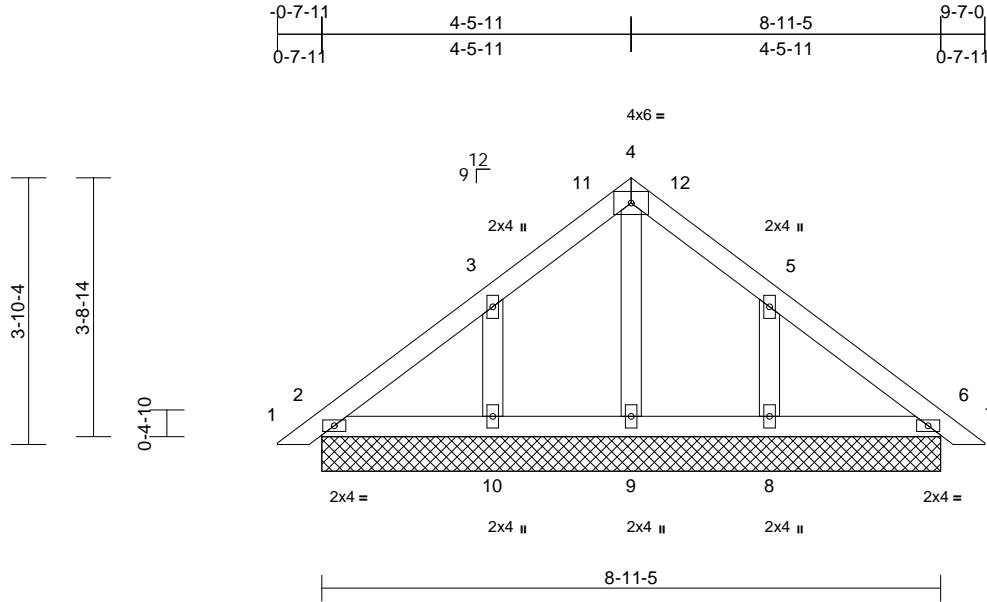
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss PB05	Truss Type Piggyback	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360533
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:26
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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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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=8-11-5, 6=8-11-5, 8=8-11-5, 9=8-11-5, 10=8-11-5
Max Horiz 2=-77 (LC 10)
Max Uplift 2=-3 (LC 13), 8=-78 (LC 13), 10=-78 (LC 12)
Max Grav 2=117 (LC 2), 6=117 (LC 2), 8=230 (LC 27), 9=104 (LC 29), 10=230 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/14, 2-3=-73/66, 3-4=-70/65, 4-5=-64/56, 5-6=-57/47, 6-7=0/14
BOT CHORD 2-10=-25/61, 9-10=-25/61, 8-9=-25/61, 6-8=-25/61
WEBS 4-9=-72/0, 3-10=-177/111, 5-8=-176/110

NOTES (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2, 78 lb uplift at joint 10 and 78 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 2024

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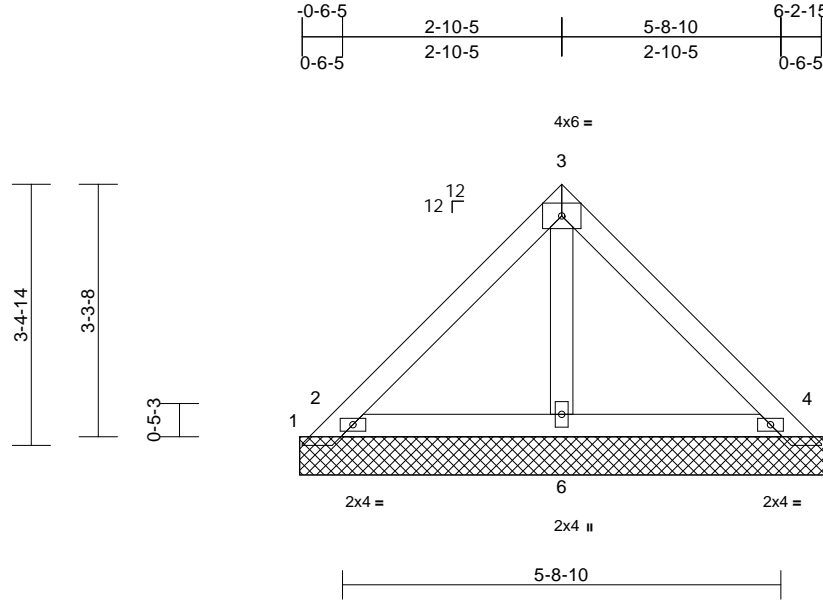
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss PB06	Truss Type Piggyback	Qty 21	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360534
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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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

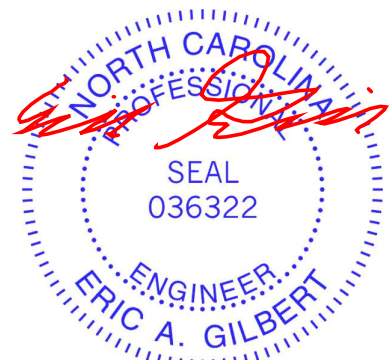
REACTIONS (size) 1=6-10-0, 2=6-10-0, 4=6-10-0, 5=6-10-0, 6=6-10-0
Max Horiz 1=-67 (LC 8)
Max Uplift 1=-214 (LC 26), 2=-214 (LC 12), 4=-187 (LC 13), 5=-176 (LC 27)
Max Grav 1=185 (LC 12), 2=372 (LC 26), 4=342 (LC 27), 5=151 (LC 13), 6=173 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-147/184, 2-3=-107/45, 3-4=-105/35, 4-5=-90/121
BOT CHORD 2-6=-23/57, 4-6=-23/57
WEBS 3-6=-91/7

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 1, 176 lb uplift at joint 5, 214 lb uplift at joint 2 and 187 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- NOTES (12)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; 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.



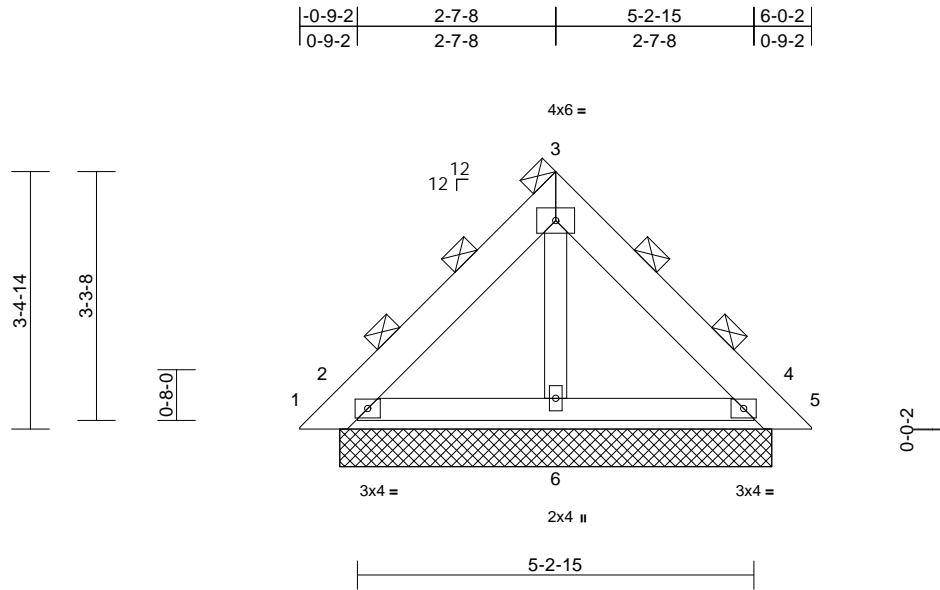
December 23, 2024

Job 4293514	Truss PB07	Truss Type Piggyback	Qty 2	Ply 3	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360535
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:26
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Page: 1



Scale = 1:30.5

Loading	(psf)	Spacing	8-6-0	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
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING

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

REACTIONS

(size) 1=5-8-10, 2=5-8-10, 4=5-8-10, 5=5-8-10, 6=5-8-10
Max Horiz 1=-275 (LC 8)
Max Uplift 1=-537 (LC 26), 2=-628 (LC 12), 4=-556 (LC 13), 5=-421 (LC 27)
Max Grav 1=506 (LC 12), 2=1211 (LC 26), 4=1131 (LC 27), 5=401 (LC 13), 6=660 (LC 7)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-411/509, 2-3=-453/193, 3-4=-443/149, 4-5=-193/272
BOT CHORD 2-6=-89/230, 4-6=-89/230
WEBS 3-6=-309/16

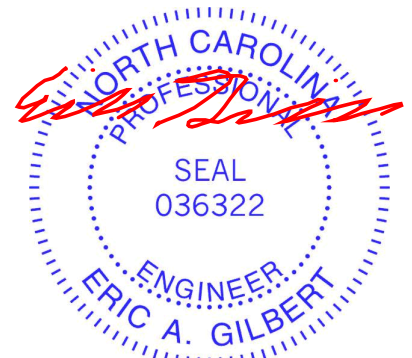
NOTES (15)

- 3-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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5, 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 537 lb uplift at joint 1, 421 lb uplift at joint 5, 628 lb uplift at joint 2 and 556 lb uplift at joint 4.
- 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.

16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 2024

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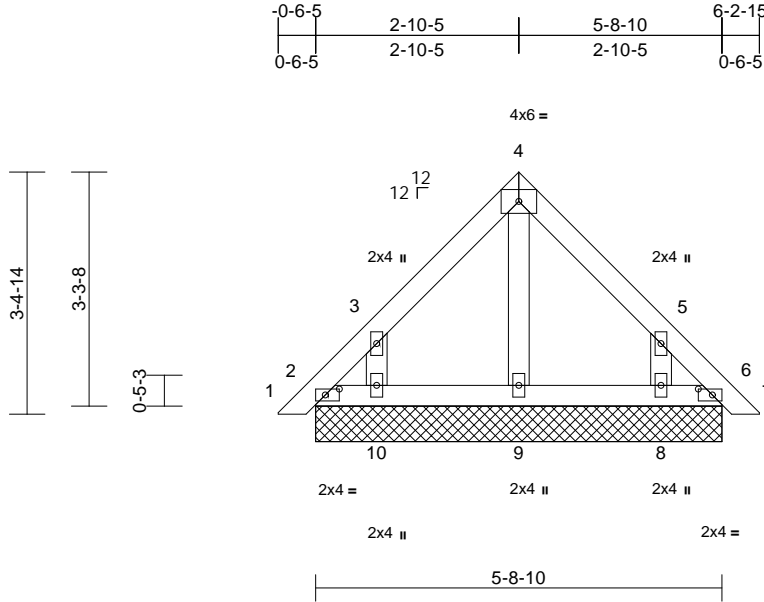
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss PB08	Truss Type Piggyback	Qty 2	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360536
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:26
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Page: 1



Scale = 1:32.4

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [6:0-2-6,0-1-0]

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
										Weight: 29 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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=5-8-10, 6=5-8-10, 8=5-8-10, 9=5-8-10, 10=5-8-10
Max Horiz 2=-67 (LC 10)
Max Uplift 2=-22 (LC 8), 6=-11 (LC 9), 8=-90 (LC 13), 10=-91 (LC 12)
Max Grav 2=64 (LC 28), 6=58 (LC 29), 8=166 (LC 27), 9=106 (LC 7), 10=167 (LC 26)

FORCES

(lb) - Maximum Compression/Maximum Tension

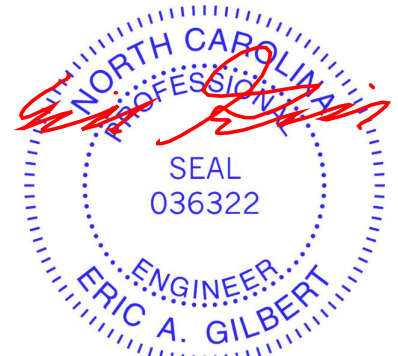
TOP CHORD 1-2=0/13, 2-3=-79/57, 3-4=-80/50, 4-5=-77/40, 5-6=-69/41, 6-7=0/13
BOT CHORD 2-10=-23/57, 9-10=-23/57, 8-9=-23/57, 6-8=-23/57
WEBS 4-9=-61/0, 3-10=-134/111, 5-8=-133/110

NOTES (13)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=11.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 11 lb uplift at joint 6, 91 lb uplift at joint 10 and 90 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)



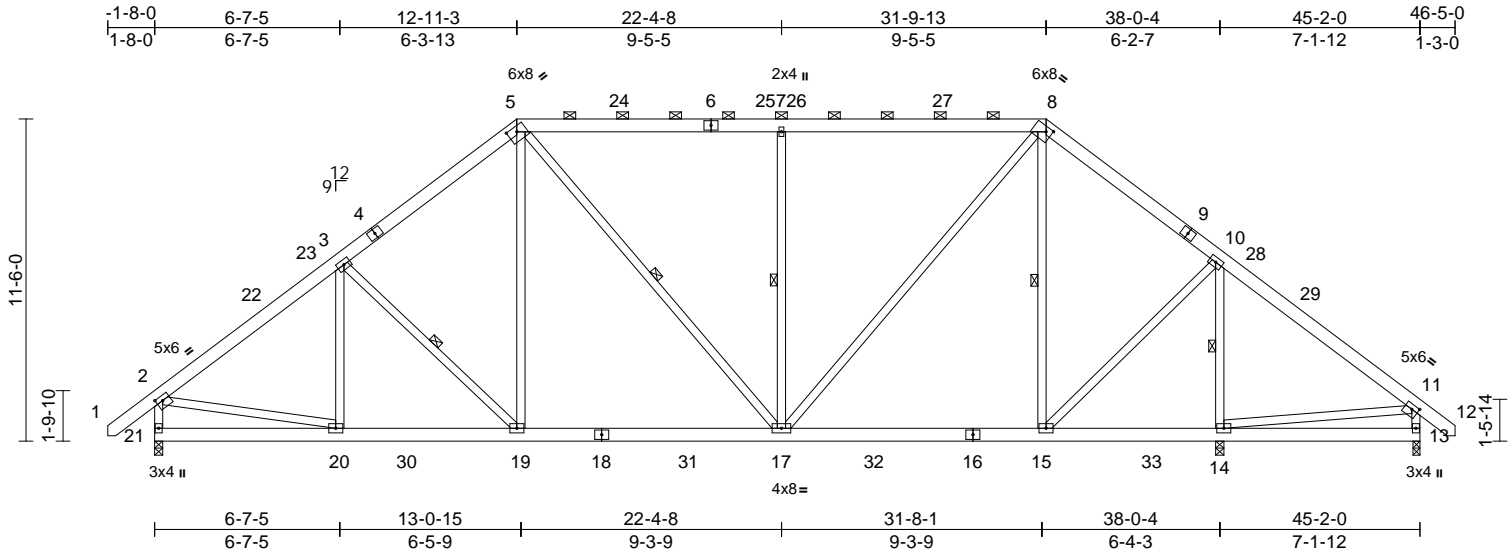
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T01	Truss Type Piggyback Base	Qty 4	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360537
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:26
ID:SSBnAROhUxxkd_ercNXMxyNuDe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.2

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

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	0.78	Vert(LL)	-0.09	17-19	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.17	17-19	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	17-19	>999	240		
BCDL	10.0										Weight: 389 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-7 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-19, 5-17, 7-17, 8-15, 10-14

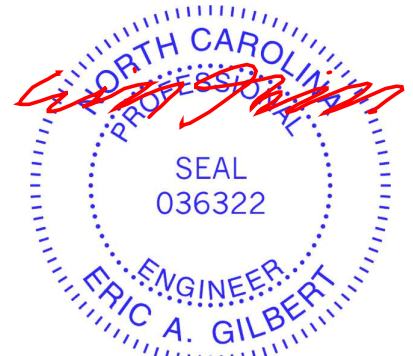
REACTIONS (size) 13=0-3-0, 14=0-3-8, 21=0-3-8
Max Horiz 21=231 (LC 11)
Max Uplift 13=49 (LC 13), 14=8 (LC 8), 21=56 (LC 12)
Max Grav 13=439 (LC 51), 14=1797 (LC 3), 21=1630 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-1828/63, 3-5=-1681/116, 5-7=-1501/113, 7-8=-1500/113, 8-10=-1134/110, 10-11=-295/59, 11-12=0/50, 2-21=-1560/90, 11-13=-378/86
BOT CHORD 20-21=-212/288, 19-20=-152/1438, 17-19=-121/1307, 15-17=-38/879, 14-15=-4/144, 13-14=-42/136
WEBS 3-20=-153/66, 3-19=-374/184, 5-19=-34/572, 5-17=-173/389, 7-17=-859/232, 8-17=-138/996, 8-15=-565/137, 10-15=-51/1085, 10-14=-1610/57, 2-20=0/1306, 11-14=-67/123

NOTES (12)
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 21, 8 lb uplift at joint 14 and 49 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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 4293514	Truss T01E	Truss Type Piggyback Base	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360538
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:27
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Page: 1

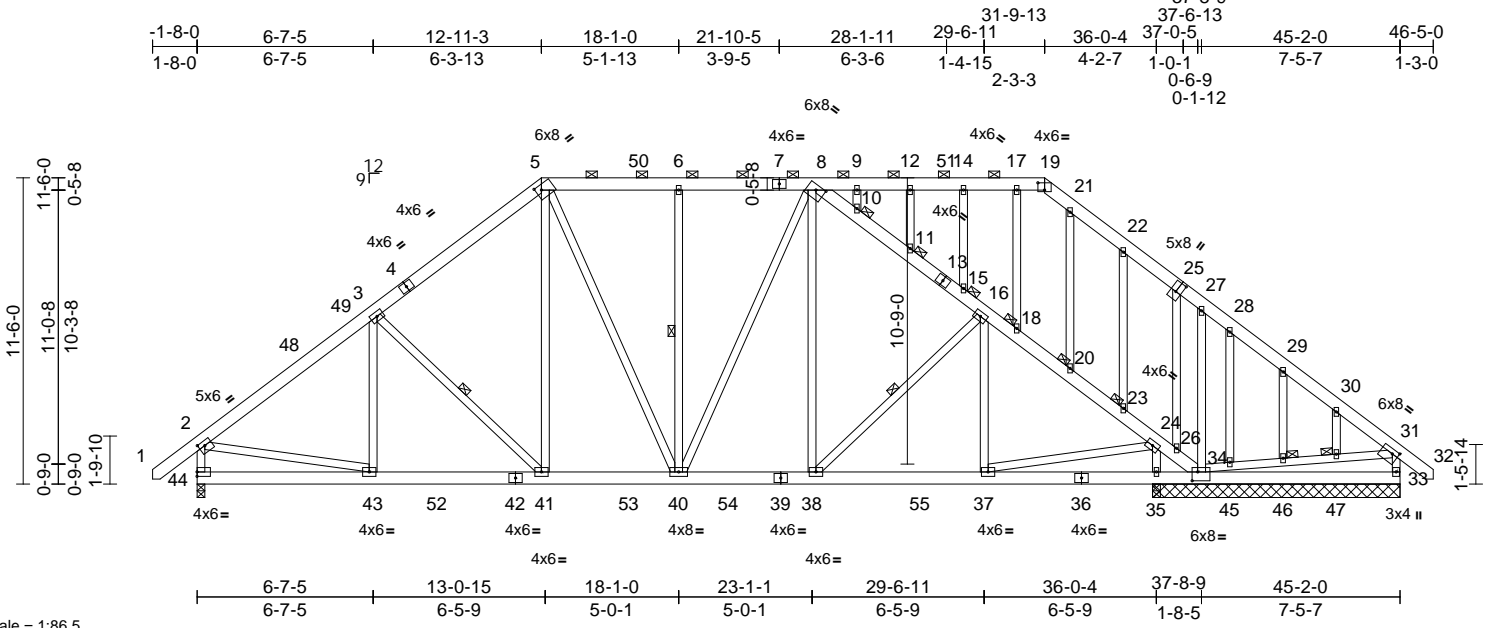


Plate Offsets (X, Y): [2:0-2-12,0-2-0], [5:0-2-8,0-2-4], [8:0-4-0,0-2-4], [19:0-3-0,0-3-4], [25:0-4-8,0-2-8], [31:0-2-12,0-2-0], [34:0-2-8,0-4-0]

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	0.33	Vert(LL)	-0.08	37-38	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.16	37-38	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	33	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	37-38	>999	240		
BCDL	10.0										Weight: 504 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-1 max.): 5-19, 8-34.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-40, 16-38, 3-41
JOINTS 1 Brace at Jt(s): 11, 10, 15, 18, 20, 23, 46, 47

REACTIONS (size)
33=9-3-8, 34=9-3-8, 35=0-3-8, 44=0-3-8
Max Horiz 44=232 (LC 11)
Max Uplift 34=255 (LC 13), 35=135 (LC 9), 44=103 (LC 12)
Max Grav 33=523 (LC 51), 34=329 (LC 45), 35=2445 (LC 34), 44=2052 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/66, 2-3=-2334/122, 3-5=-2232/189, 5-6=-2025/194, 6-8=-2024/195, 8-9=-233/147, 9-12=-233/147, 12-14=-233/147, 14-17=-233/147, 17-19=-233/147, 19-21=-265/137, 21-22=-340/129, 22-27=-360/80, 27-28=-195/24, 28-29=-290/22, 29-30=-331/12, 30-31=-391/0, 31-32=0/50, 2-44=-1979/135, 8-10=-2168/230, 10-11=-2218/239, 11-15=-2255/248, 15-16=-2376/281, 16-18=-2504/240, 18-20=-2567/265, 20-23=-2553/257, 23-24=-2581/246, 24-26=-150/102, 26-34=-186/104, 31-33=-452/0

BOT CHORD 43-44=-215/300, 41-43=-207/1850, 40-41=-185/1718, 38-40=-198/1980, 37-38=-209/2228, 35-37=-45/335, 34-35=-45/335, 33-34=-47/175

WEBS 11-12=-61/15, 9-10=-86/16, 14-15=-202/58, 17-18=-105/51, 20-21=-19/24, 22-23=-143/58, 25-26=-127/7, 28-45=-10/64, 29-46=-38/25, 30-47=-11/1, 3-43=-251/87, 5-41=-66/571, 6-40=-388/113, 16-37=0/309, 24-35=-1907/129, 24-37=-168/1963, 8-38=-3/782, 16-38=-345/42, 8-40=-54/237, 5-40=-192/786, 3-41=-307/168, 2-43=0/1685, 27-34=-369/184, 34-45=-94/272, 45-46=-90/257, 46-47=-88/256, 31-47=-87/256

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NOTES (17)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60



December 23, 2024

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T01E	Truss Type Piggyback Base	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	I70360538
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:27
ID:d3H8ALmTAq4ifLmqLxFbsyMcbK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 12) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 44, 255 lb uplift at joint 34 and 135 lb uplift at joint 35.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) N/A

- 16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-43, 2-5=-43, 5-8=-53, 8-19=-53,
19-31=-43, 31-32=-43, 41-44=-20, 35-41=-80
(F=-60), 33-35=-20

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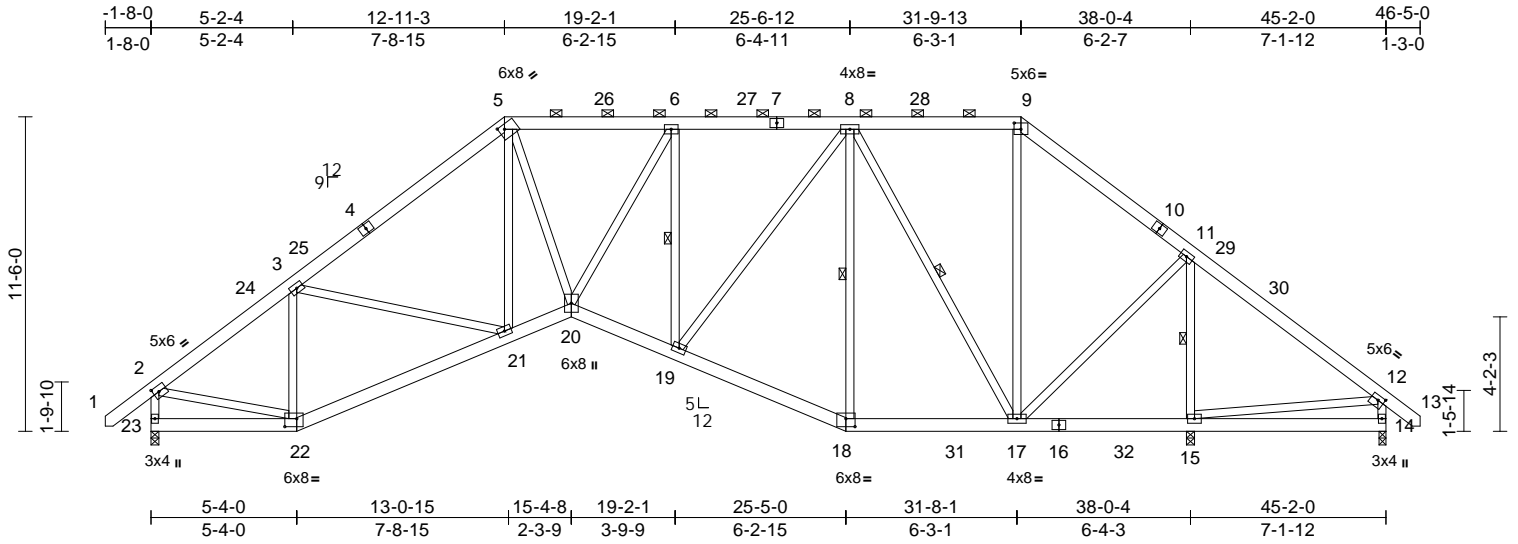
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T02	Truss Type Piggyback Base	Qty 2	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360539
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:27
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Page: 1



Scale = 1:84.3
Plate Offsets (X, Y): [2:0-2-8,0-2-8], [5:0-2-8,0-2-0], [9:0-3-0,0-2-12], [12:0-2-12,0-2-0], [18:0-4-0,0-3-8], [22:0-5-4,0-3-8]

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	0.54	Vert(LL)	-0.09	19-20	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	19-20	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.10	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	20	>999	240		
BCDL	10.0										Weight: 409 lb	FT = 20%

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

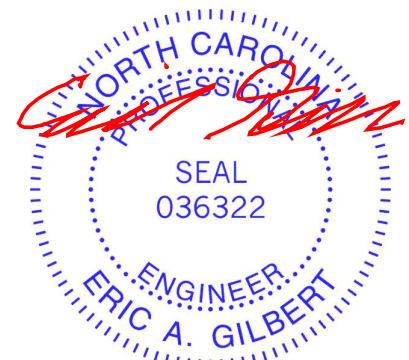
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-12 max.); 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-17.
WEBS 1 Row at midpt 6-19, 8-18, 8-17, 11-15

REACTIONS (size) 14=0-3-0, 15=0-3-8, 23=0-3-8
Max Horiz 23=231 (LC 11)
Max Uplift 14=-158 (LC 48), 23=-56 (LC 12)
Max Grav 14=146 (LC 51), 15=2114 (LC 2), 23=1566 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-1673/70, 3-5=-2132/139, 5-6=-1932/165, 6-8=-1729/136, 8-9=-623/165, 9-11=-866/147, 11-12=-80/438, 12-13=0/50, 2-23=-1513/83, 12-14=-112/209
BOT CHORD 22-23=-201/247, 21-22=-184/1399, 20-21=-182/1696, 19-20=-175/1873, 18-19=-105/1267, 17-18=-86/1150, 15-17=-299/49, 14-15=-47/109
WEBS 3-22=-743/130, 3-21=-28/488, 5-21=-126/160, 5-20=-73/1022, 6-20=-61/613, 6-19=-871/185, 8-19=-108/965, 8-18=-356/102, 8-17=-1091/151, 9-17=0/217, 11-17=-88/1279, 11-15=-1895/12, 2-22=0/1278, 12-15=-348/71

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 23 and 158 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 2024

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

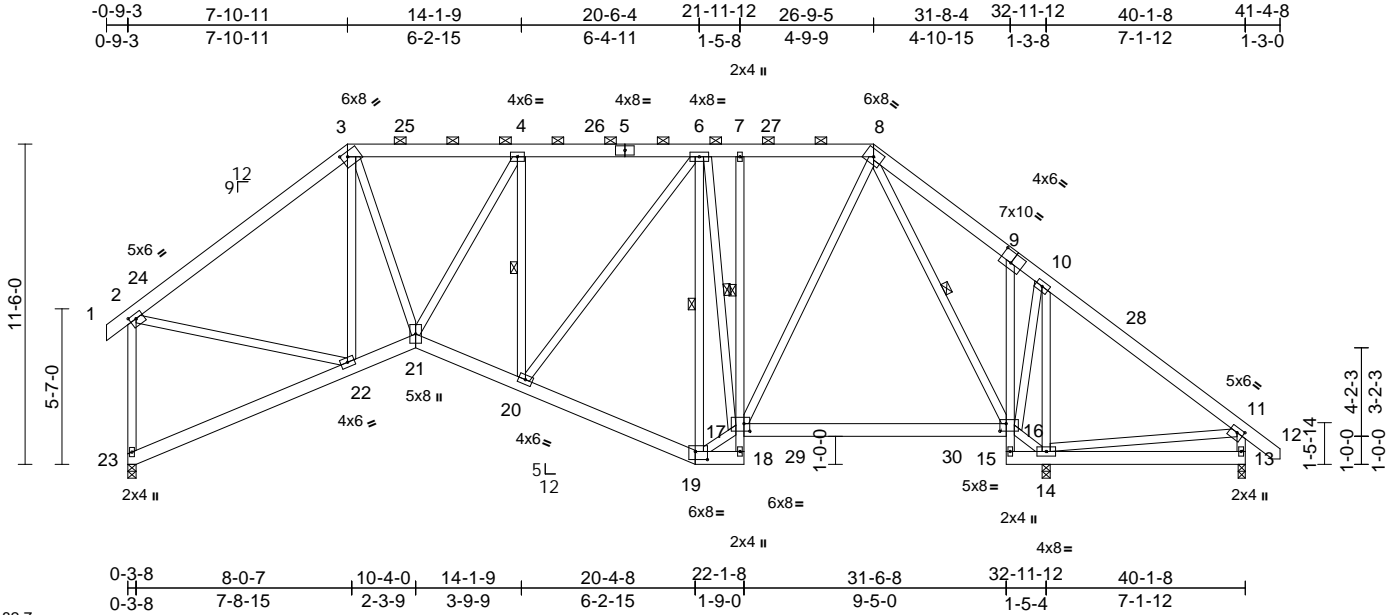
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T02C	Truss Type Piggyback Base	Qty 3	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360540
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:28
ID:hvftULCXhWPUwrPRvbK0qZyNtvD-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:82.7

Plate Offsets (X, Y): [2:0-2-12,0-2-0], [3:0-2-12,0-2-0], [9:0-5-0,0-4-8], [11:0-2-12,0-2-0], [16:0-2-12,0-3-4], [17:0-2-8,0-3-4], [19:0-5-4,0-3-8]

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	0.73	Vert(LL)	-0.13	16-17	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.24	16-17	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.11	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	20-21	>999	240		
BCDL	10.0										Weight: 409 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 18-7,9-15:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-13 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

1 Row at midpt 7-17
WEBS 1 Row at midpt 4-20, 6-19, 6-17, 8-16

REACTIONS (size) 13=0-3-0, 14=0-3-8, 23=0-3-8
Max Horiz 23=235 (LC 13)
Max Uplift 13=109 (LC 48), 14=-20 (LC 8), 23=-13 (LC 12)
Max Grav 13=166 (LC 51), 14=1846 (LC 2), 23=1323 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1381/137, 3-4=-1384/172, 4-6=-1369/145, 6-7=-987/110, 7-8=-993/109, 8-10=-241/243, 10-11=-24/347, 11-12=0/50, 2-23=-1265/96, 11-13=-124/150
BOT CHORD 22-23=-216/273, 21-22=-186/1114, 20-21=-185/1484, 19-20=-116/1080, 18-19=-190/0, 17-18=-37/0, 7-17=-169/58, 16-17=-47/588, 15-16=-216/11, 9-16=-152/55, 14-15=-208/0, 13-14=-53/99
WEBS 3-22=-489/110, 3-21=-88/991, 4-21=-61/290, 4-20=-559/184, 6-20=-106/650, 6-19=-896/118, 17-19=-35/1227, 6-17=-41/146, 8-17=-95/946, 8-16=-1215/125, 14-16=-156/143, 10-14=-1436/0, 2-22=-23/1076, 11-14=-263/110, 10-16=0/988

NOTES (12)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 23, 109 lb uplift at joint 13 and 20 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)



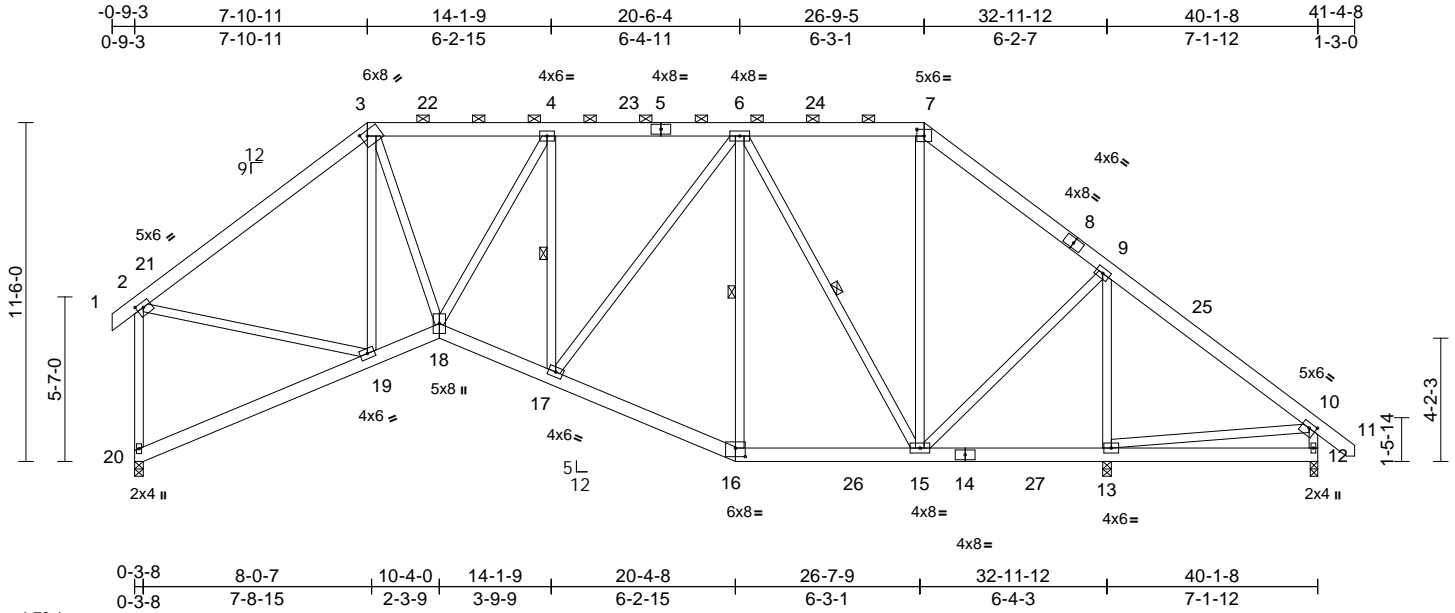
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T02D	Truss Type Piggyback Base	Qty 7	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360541
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:28
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Page: 1



Scale = 1:78.1

Plate Offsets (X, Y): [2:0-2-12,0-2-0], [3:0-2-8,0-2-0], [7:0-3-0,0-2-12], [10:0-2-12,0-2-0], [16:0-4-0,0-3-8]

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	0.75	Vert(LL)	-0.06	17-18	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	17-18	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	17-18	>999	240		
BCDL	10.0										Weight: 371 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-6 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-15.
WEBS 1 Row at midpt 4-17, 6-16, 6-15

REACTIONS (size) 12=0-3-0, 13=0-3-8, 20=0-3-8
Max Horiz 20=235 (LC 13)
Max Uplift 12=83 (LC 13), 13=21 (LC 8), 20=11 (LC 12)
Max Grav 12=299 (LC 51), 13=1687 (LC 2), 20=1351 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-1414/130, 3-4=-1415/163, 4-6=-1405/135, 6-7=-617/157, 7-9=-851/136, 9-10=-137/190, 10-11=0/50, 2-20=-1293/90, 10-12=-249/119
BOT CHORD 19-20=-216/273, 18-19=-180/1148, 17-18=-174/1522, 16-17=-108/1132, 15-16=-89/1026, 13-15=-94/43, 12-13=-45/120
WEBS 3-19=-501/107, 3-18=-79/1018, 4-18=-76/274, 4-17=-528/180, 6-17=-103/635, 6-16=-305/104, 6-15=-846/146, 7-15=0/209, 9-15=-76/991, 9-13=-1505/31, 2-19=-17/1099, 10-13=-155/89

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 20 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 11 lb uplift at joint 20, 21 lb uplift at joint 13 and 83 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- NOTES (12)**
- Unbalanced roof live loads have been considered for this design.



December 23, 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/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

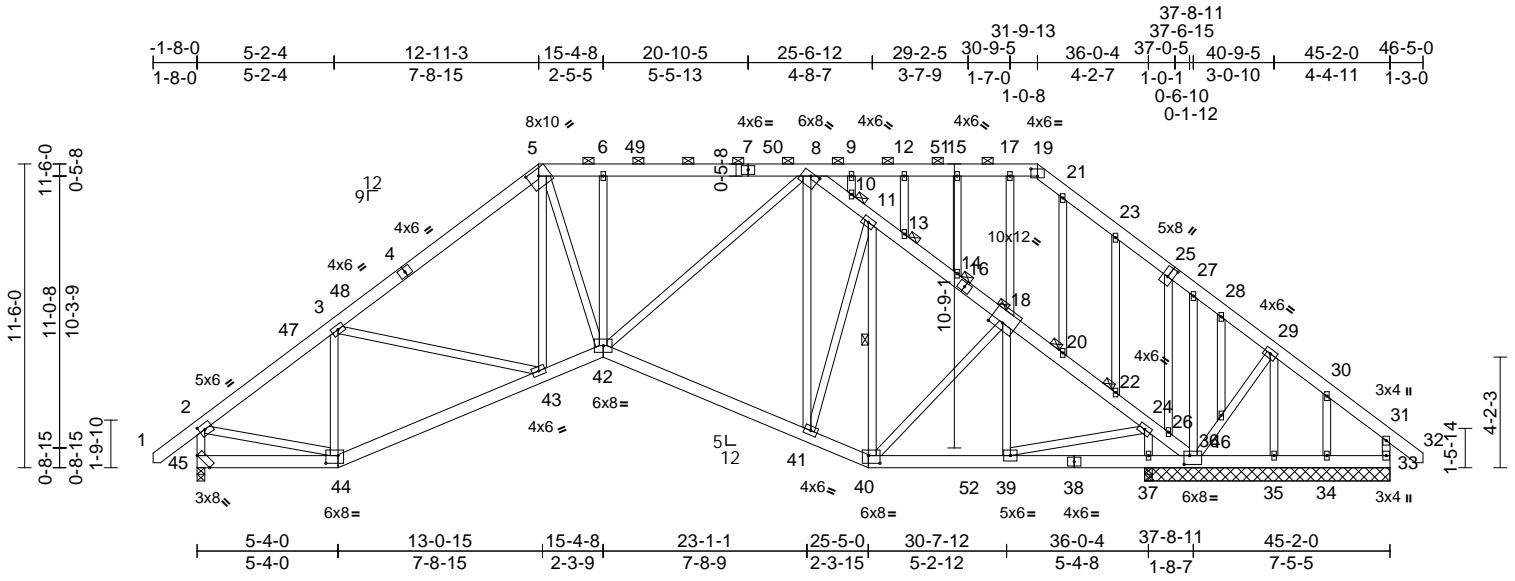
Job 4293514	Truss T02E	Truss Type Piggyback Base	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360542
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:28

Page: 1

ID:H5LM1n5fCwS7PxAe0rjCOlyMcLP-RfC?PsB70Hq3NSgPqnL8w3uTlXbGkWrCdoi7J4zJC7f



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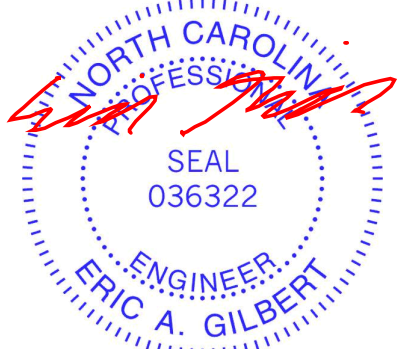
Plate Offsets (X, Y): [2:0-2-8,0-2-8], [5:0-5-0,0-3-2], [8:0-4-0,0-1-8], [18:0-6-0,0-3-0], [19:0-3-0,0-3-4], [25:0-4-8,0-2-8], [36:0-2-8,0-4-0], [40:0-5-4,0-3-8], [44:0-5-8,0-3-8], [45:0-7-14,Edge]

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	0.72	Vert(LL)	-0.15	41-42	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.32	41-42	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.14	37	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.12	41-42	>999	240		
BCDL	10.0											
											Weight: 499 lb	FT = 20%

LUMBER	TOP CHORD	1-2=0/66, 2-3=-2181/131, 3-5=-2984/253, 5-6=-2917/299, 6-8=-2916/299, 8-9=-69/246, 9-12=-69/246, 12-15=-69/246, 15-17=-69/246, 17-19=-68/244, 19-21=-74/245, 21-23=-90/254, 23-27=-63/223, 27-28=-39/204, 28-29=-51/177, 29-30=-41/171, 30-31=-48/50, 31-32=0/50, 2-45=-1925/133, 31-33=-156/37, 8-10=-2641/281, 10-11=-2717/300, 11-13=-2535/261, 13-14=-2594/279, 14-18=-2653/292, 18-20=-2755/278, 20-22=-2799/281, 22-24=-2838/261, 24-26=-123/162, 26-36=-119/49	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.
TOP CHORD	2x6 SP No.2		4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
BOT CHORD	2x6 SP No.2		5) Unbalanced snow loads have been considered for this design.
WEBS	2x4 SP No.2		6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
OTHERS	2x4 SP No.2		7) Provide adequate drainage to prevent water ponding.
BRACING			8) All plates are 2x4 MT20 unless otherwise indicated.
TOP CHORD	Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-11 max.): 5-19, 8-36.		9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		10) Gable studs spaced at 2-0-0 oc.
WEBS	1 Row at midpt 11-40		11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
JOINTS	1 Brace at Jt(s): 13, 10, 14, 20, 22, 18		
REACTIONS	(size) 33=9-3-8, 34=9-3-8, 35=9-3-8, 37=0-3-8, 45=0-3-8		
	Max Horiz 45=232 (LC 11)		
	Max Uplift 33=13 (LC 13), 34=53 (LC 13), 35=132 (LC 50), 37=112 (LC 9), 45=106 (LC 12)		
	Max Grav 33=176 (LC 51), 34=157 (LC 27), 35=124 (LC 45), 37=2956 (LC 2), 45=1981 (LC 2)		
FORCES	(lb) - Maximum Compression/Maximum Tension		

NOTES (17)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60



December 23, 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.

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818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T02E	Truss Type Piggyback Base	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	I70360542
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:28
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Page: 2

- 12) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 45, 13 lb uplift at joint 33, 132 lb uplift at joint 35, 53 lb uplift at joint 34 and 112 lb uplift at joint 37.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) N/A

- 16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-43, 2-5=-43, 5-8=-53, 8-19=-53,
19-31=-43, 31-32=-43, 44-45=-20, 43-44=-20,
42-43=-80 (F=-60), 40-42=-80 (F=-60), 37-40=-80 (F=-60), 33-37=-20

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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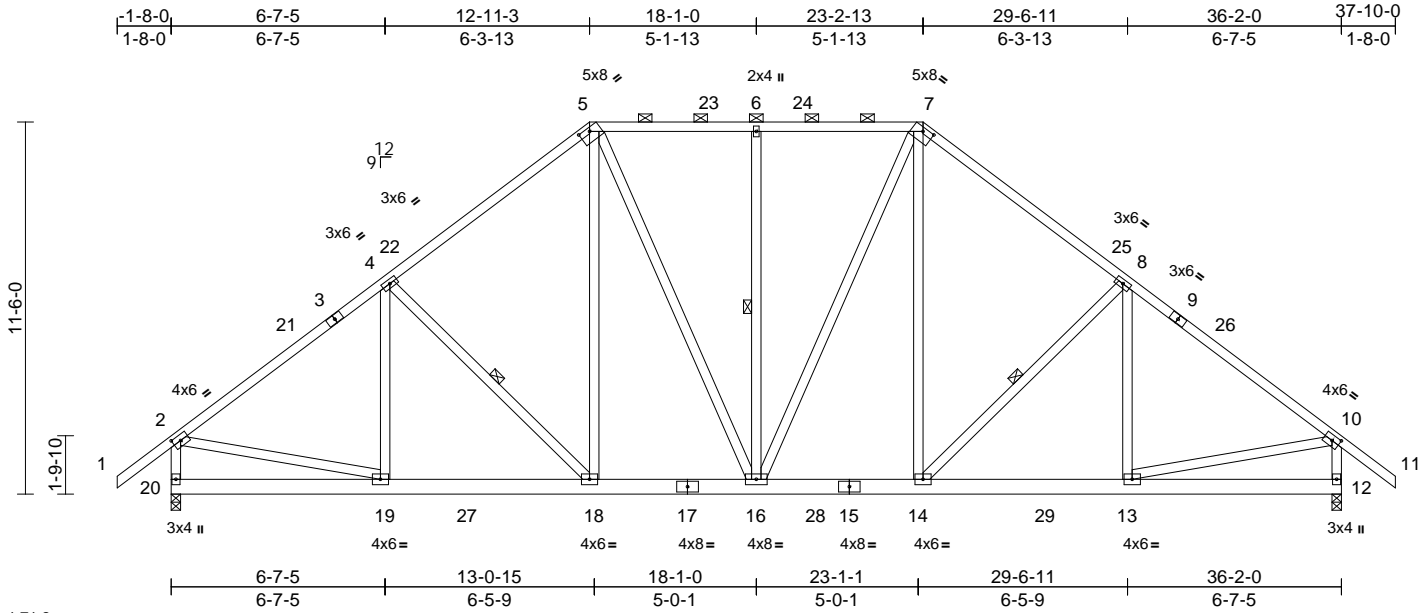
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T03	Truss Type Piggyback Base	Qty 4	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360543
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:29
ID:MFFw5tRsTYMw386Bqch3ThyMcsX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwCDoi7J4zJC7f

Page: 1



Scale = 1:71.2

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [5:0-4-0,0-1-6], [7:0-4-0,0-1-6], [10:0-2-14,0-2-0]

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	0.51	Vert(LL)	-0.05	14-16	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	14-16	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.03	18-19	>999	240		
BCDL	10.0											
											Weight: 304 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-3 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-16, 8-14

REACTIONS

(size) 12=0-3-8, 20=0-3-8
Max Horiz 20=231 (LC 11)
Max Uplift 12=60 (LC 13), 20=60 (LC 12)
Max Grav 12=1544 (LC 2), 20=1544 (LC 2)

FORCES

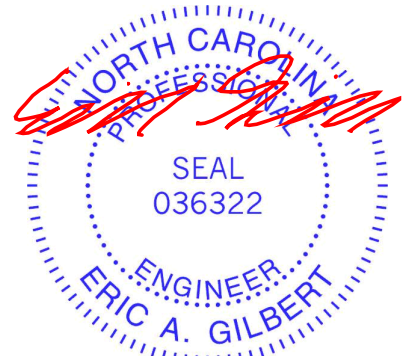
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/72, 2-4=-1650/66, 4-5=-1473/123, 5-6=-1193/116, 6-7=-1193/116, 7-8=-1474/123, 8-10=-1652/66, 10-11=0/72, 2-20=-1477/92, 10-12=-1477/91
BOT CHORD 19-20=-217/292, 18-19=-77/1347, 16-18=-31/1115, 14-16=0/1098, 13-14=0/1259, 12-13=-29/99
WEBS 4-19=-143/77, 4-18=-387/177, 5-18=-55/467, 5-16=-133/334, 6-16=-483/128, 7-16=-133/334, 7-14=-55/471, 8-14=-386/177, 8-13=-143/77, 2-19=0/1217, 10-13=0/1217

NOTES (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 20 and 60 lb uplift at joint 12.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)



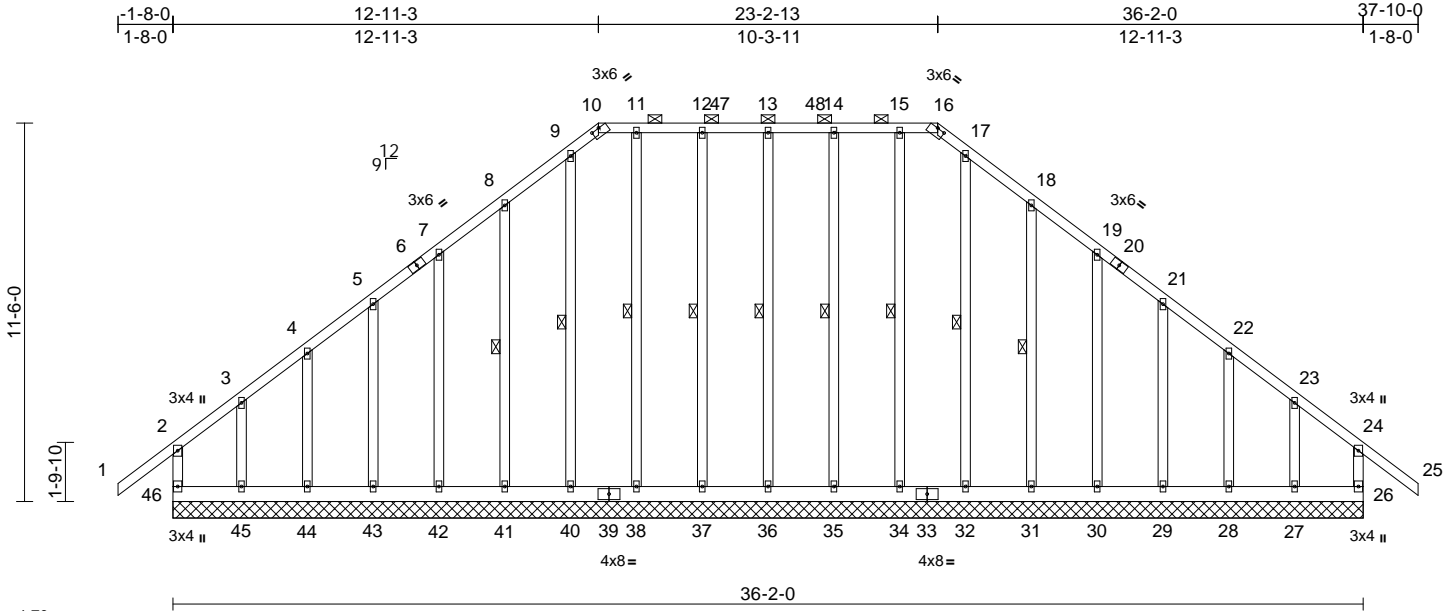
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T03E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360544
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:29
ID:w4WBO0LuHfj3LaTnIRMMsMc9T-RFC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:70

Plate Offsets (X, Y): [10:0-3-0,0-0-1], [16:0-3-0,0-0-1]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	26	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0											
											Weight: 352 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.1	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.2	
OTHERS	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.): 10-16.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	13-36, 12-37, 11-38, 9-40, 8-41, 14-35, 15-34, 17-32, 18-31
REACTIONS (size)		
Max Horiz	46=231 (LC 11)	
Max Uplift	26=-128 (LC 9), 27=-164 (LC 13), 28=-28 (LC 13), 29=-62 (LC 13), 30=-50 (LC 13), 31=-80 (LC 13), 35=-26 (LC 9), 36=-17 (LC 9), 37=-26 (LC 8), 41=-79 (LC 12), 42=-50 (LC 12), 43=-63 (LC 12), 44=-26 (LC 12), 45=-174 (LC 12), 46=-146 (LC 8)	

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-46=-212/102, 1-2=0/72, 2-3=-154/167, 3-4=-103/128, 4-5=-94/163, 5-7=-81/198, 7-8=-68/231, 8-9=-57/280, 9-10=-35/232, 10-11=-9/235, 11-12=-9/235, 12-13=-9/235, 13-14=-9/235, 14-15=-9/235, 15-16=-9/235, 16-17=-33/231, 17-18=-45/269, 18-19=-57/221, 19-21=-70/188, 21-22=-82/153, 22-23=-89/117, 23-24=-136/149, 24-25=0/72, 24-26=-202/90
BOT CHORD	45-46=-114/120, 44-45=-114/120, 43-44=-114/120, 42-43=-114/120, 41-42=-114/120, 40-41=-114/120, 38-40=-114/120, 37-38=-114/120, 36-37=-114/120, 35-36=-114/120, 34-35=-114/120, 32-34=-114/120, 31-32=-114/120, 30-31=-114/120, 29-30=-114/120, 28-29=-114/120, 27-28=-114/120, 26-27=-114/120
WEBS	13-36=-166/41, 12-37=-167/50, 11-38=-162/12, 9-40=-162/0, 8-41=-169/102, 7-42=-165/75, 5-43=-169/81, 4-44=-134/70, 3-45=-132/118, 14-35=-167/50, 15-34=-160/8, 17-32=-159/0, 18-31=-169/103, 19-30=-165/75, 21-29=-169/81, 22-28=-134/71, 23-27=-127/114

- NOTES (16)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.



December 23, 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. Important 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 4293514	Truss T03E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	I70360544
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:29
ID:w4WBO0LuHfij3LaTnIRMMsyMc9T-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 46, 128 lb uplift at joint 26, 17 lb uplift at joint 36, 26 lb uplift at joint 37, 79 lb uplift at joint 41, 50 lb uplift at joint 42, 63 lb uplift at joint 43, 26 lb uplift at joint 44, 174 lb uplift at joint 45, 26 lb uplift at joint 35, 80 lb uplift at joint 31, 50 lb uplift at joint 30, 62 lb uplift at joint 29, 28 lb uplift at joint 28 and 164 lb uplift at joint 27.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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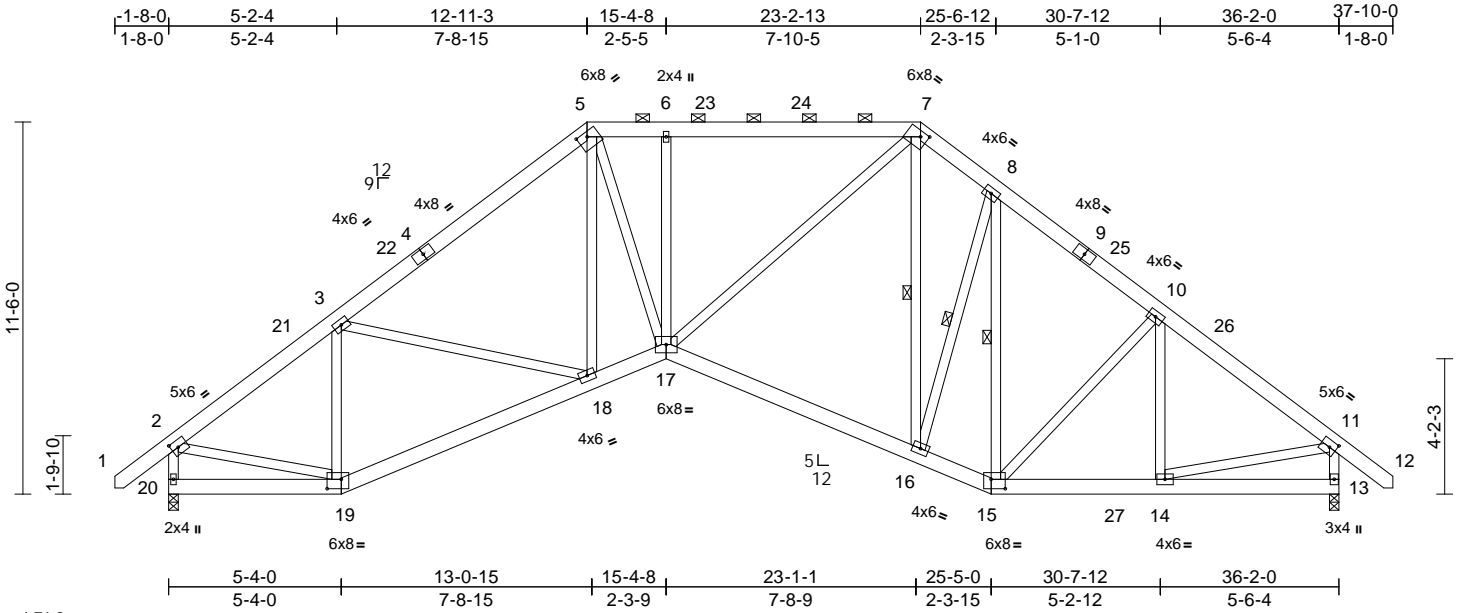
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T04	Truss Type Piggyback Base	Qty 3	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360545
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:30
ID:zANSr3?SRZVQUp83hY5yyMcUa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:71.2
Plate Offsets (X, Y): [2:0-2-8,0-2-8], [5:0-3-12,0-1-12], [7:0-2-12,0-2-0], [11:0-2-8,0-2-8], [15:0-5-4,0-3-8], [19:0-5-4,0-3-8]

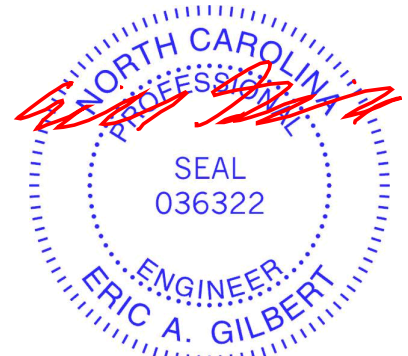
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.07	16-17	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.16	16-17	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	17	>999	240		
BCDL	10.0										Weight: 339 lb	FT = 20%

- LUMBER**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-15 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-16, 8-16, 8-15
- REACTIONS** (size) 13=0-3-8, 20=0-3-8
Max Horiz 20=229 (LC 11)
Max Uplift 13=58 (LC 13), 20=58 (LC 12)
Max Grav 13=1535 (LC 2), 20=1535 (LC 2)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-1635/72, 3-5=-2067/80, 5-6=-1861/92, 6-7=-1862/91, 7-8=-1516/133, 8-10=-1541/114, 10-11=-1625/61, 11-12=0/66, 2-20=-1482/85, 11-13=-1477/84
BOT CHORD 19-20=-195/251, 18-19=-138/1395, 17-18=-56/1649, 16-17=0/1307, 15-16=0/1264, 14-15=0/1235, 13-14=-7/74
WEBS 3-19=-742/117, 3-18=0/393, 5-18=-98/117, 5-17=-43/1089, 6-17=-537/180, 7-17=-129/900, 7-16=-237/312, 8-16=-151/356, 8-15=-375/55, 10-15=-234/138, 10-14=-203/57, 2-19=0/1294, 11-14=0/1207

- NOTES (11)**
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 20 and 58 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 2024

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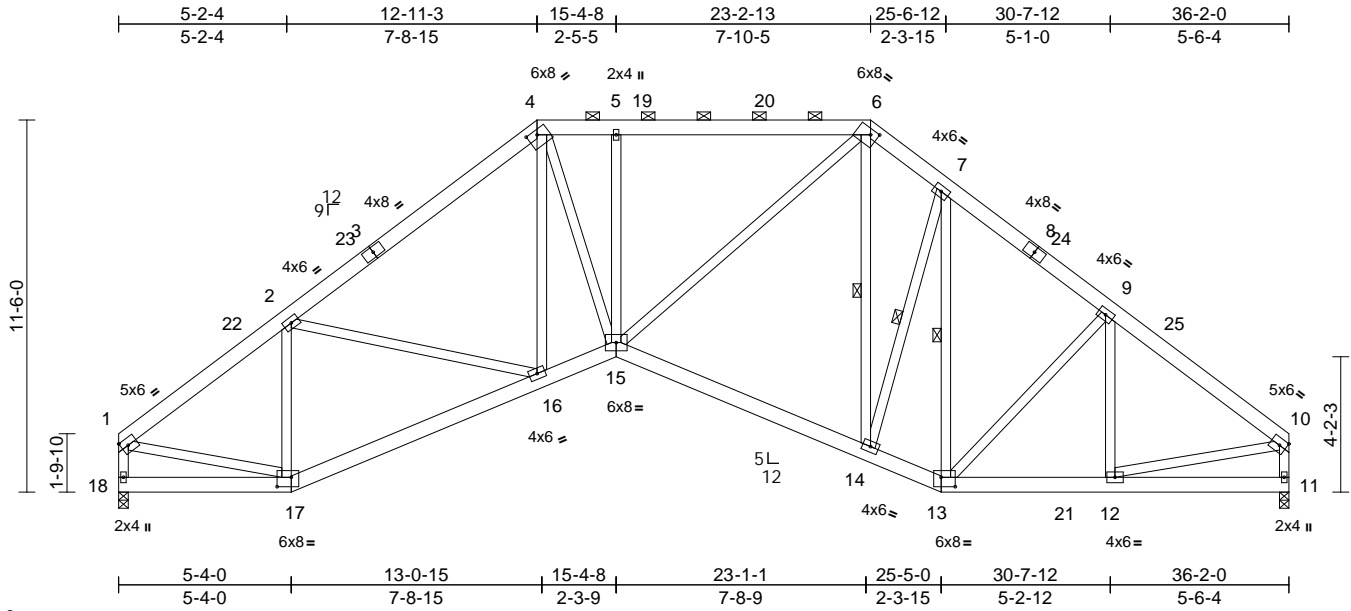
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T04A	Truss Type Piggyback Base	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360546
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:30
ID:wecwX?rMy3JUu8GEmyzjyMcTU-RIC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:71.2

Plate Offsets (X, Y): [4:0-3-12,0-1-12], [6:0-2-12,0-2-0], [13:0-5-4,0-3-8], [17:0-5-4,0-3-8]

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	0.53	Vert(LL)	-0.07	14-15	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.16	14-15	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	15	>999	240		
BCDL	10.0										Weight: 330 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-15 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-14, 7-14, 7-13

REACTIONS (size) 11=0-3-8, 18=0-3-8
 Max Horiz 18=203 (LC 11)
 Max Uplift 11=31 (LC 13), 18=31 (LC 12)
 Max Grav 11=1435 (LC 2), 18=1435 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 4-5=-1874/101, 5-6=-1874/101, 1-18=-1381/58, 10-11=-1376/56, 1-2=-1649/68, 2-4=-2081/88, 6-7=-1525/135, 7-9=-1551/114, 9-10=-1638/57

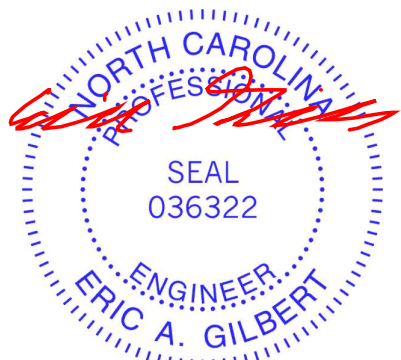
BOT CHORD 17-18=-194/233, 16-17=-156/1409, 15-16=-71/1660, 14-15=0/1316, 13-14=0/1273, 12-13=0/1249, 11-12=-16/83

WEBS 2-17=-748/131, 2-16=-8/387, 4-16=-93/119, 4-15=-53/1092, 5-15=-537/180, 6-15=-136/905, 6-14=-227/309, 7-14=-148/346, 7-13=-371/60, 9-13=-245/140, 9-12=-205/64, 1-17=0/1293, 10-12=0/1216

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 18 and 31 lb uplift at joint 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- LOAD CASE(S)** Standard

NOTES (10)

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



December 23, 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/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

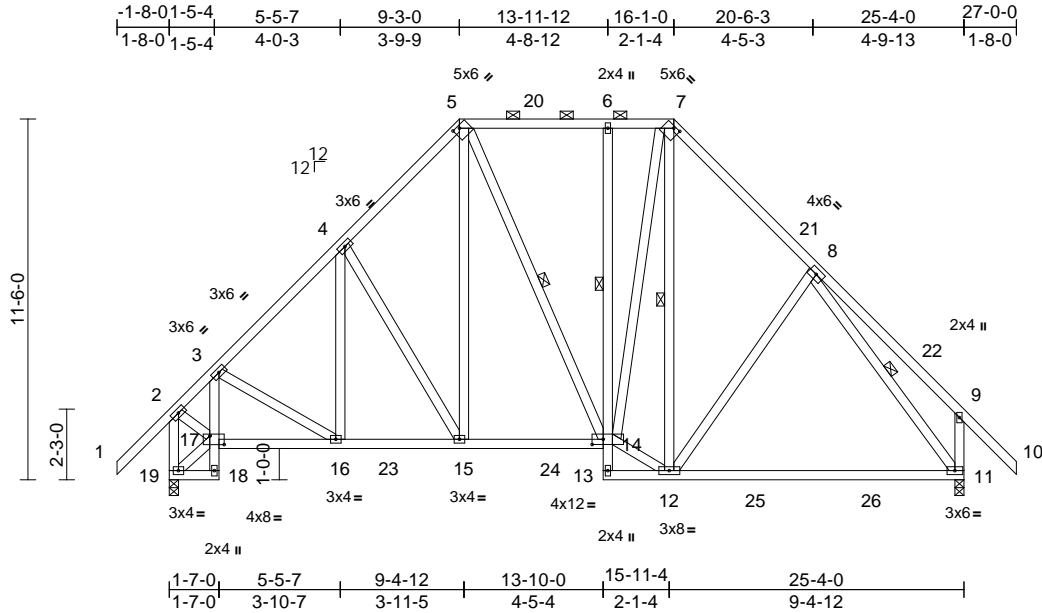
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 4293514	Truss T05	Truss Type Piggyback Base	Qty 6	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360547
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:31
ID:EZaqkijZjQHBoiW57Y_dDwyMcKJ-RIC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:73.4

Plate Offsets (X, Y): [5:0-2-8,0-1-0], [7:0-2-8,0-0-12], [14:0-4-4,0-2-0], [17:0-5-8,0-3-4]

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	0.30	Vert(LL)	-0.20	11-12	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.35	11-12	>852	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	15-16	>999	240		
BCDL	10.0										Weight: 239 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except* 18-3,6-13:2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* 19-2,11-9:2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 13-14,12-13.
 1 Row at midpt 6-14
 WEBS 1 Row at midpt 5-14, 7-12, 8-11

REACTIONS

(size) 11=0-3-8, 19=0-3-8
 Max Horiz 19=232 (LC 11)
 Max Uplift 11=34 (LC 13), 19=34 (LC 12)
 Max Grav 11=1168 (LC 35), 19=1173 (LC 35)

FORCES

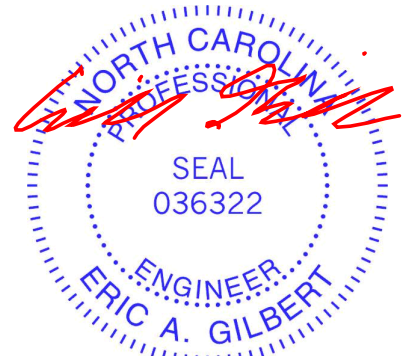
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/85, 2-3=-934/133, 3-4=-1149/85, 4-5=-961/145, 5-6=-613/118, 6-7=-610/118, 7-8=-928/131, 8-9=-251/165, 9-10=0/85, 2-19=-1189/159, 9-11=-345/176
 BOT CHORD 18-19=-20/33, 17-18=-1/25, 3-17=-436/113, 16-17=-227/842, 15-16=-97/835, 14-15=-49/682, 13-14=-171/0, 6-14=-370/95, 12-13=-84/0, 11-12=0/617
 WEBS 5-15=-104/460, 5-14=-116/164, 12-14=0/742, 7-14=-158/482, 7-12=-161/222, 2-17=-377/80, 8-11=-976/0, 4-15=-342/187, 4-16=-22/111, 3-16=-118/221, 8-12=-171/216, 17-19=-286/266

NOTES (11)

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 11 and 34 lb uplift at joint 19.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)



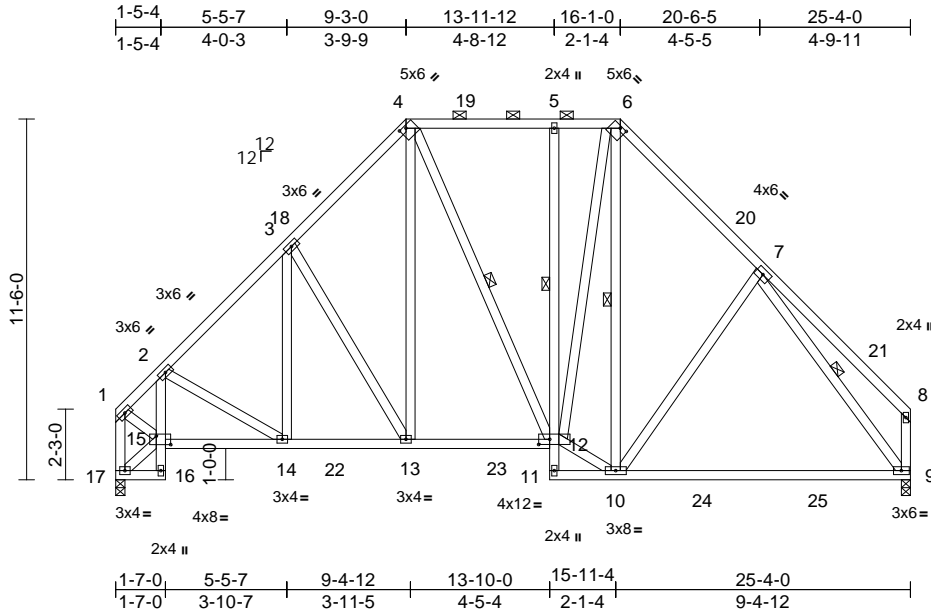
818 Soundside Road
 Edenton, NC 27932

Job 4293514	Truss T05C	Truss Type Piggyback Base	Qty 2	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360548
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:31
ID:0?rO8UEpSHAXDKv3jmPilyMcIK-RfC?PsB70Hq3NSgPqnl8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:73.4

Plate Offsets (X, Y): [4:0-2-8,0-1-0], [6:0-2-8,0-0-12], [12:0-4-4,0-2-0], [15:0-5-8,0-3-4]

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	0.33	Vert(LL)	-0.20	9-10	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.35	9-10	>847	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	13-14	>999	240		
BCDL	10.0										Weight: 232 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* 16-2,5-11:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12,10-11.

1 Row at midpt 5-12

WEBS 1 Row at midpt 4-12, 6-10, 7-9

REACTIONS (size) 9=0-3-8, 17=0-3-8
Max Horiz 17=194 (LC 11)
Max Uplift 9=-5 (LC 13), 17=-5 (LC 12)
Max Grav 9=1090 (LC 34), 17=1094 (LC 34)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-932/110, 2-3=-1166/84, 3-4=-970/144, 4-5=-621/120, 5-6=-618/120, 6-7=-940/129, 7-8=-231/106, 1-17=-1097/118, 8-9=-232/99
BOT CHORD 16-17=-17/31, 15-16=0/23, 2-15=-415/109, 14-15=-240/842, 13-14=-111/822, 12-13=-64/647, 11-12=-171/0, 5-12=-371/94, 10-11=-84/0, 9-10=0/630
WEBS 4-13=-103/463, 4-12=-115/167, 10-12=0/708, 6-12=-165/484, 6-10=-136/224, 1-15=-87/800, 7-9=-992/6, 3-13=-346/186, 3-14=-22/112, 2-14=-114/208, 7-10=-182/216, 15-17=-243/242

NOTES (10)

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 9 and 5 lb uplift at joint 17.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



December 23, 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)



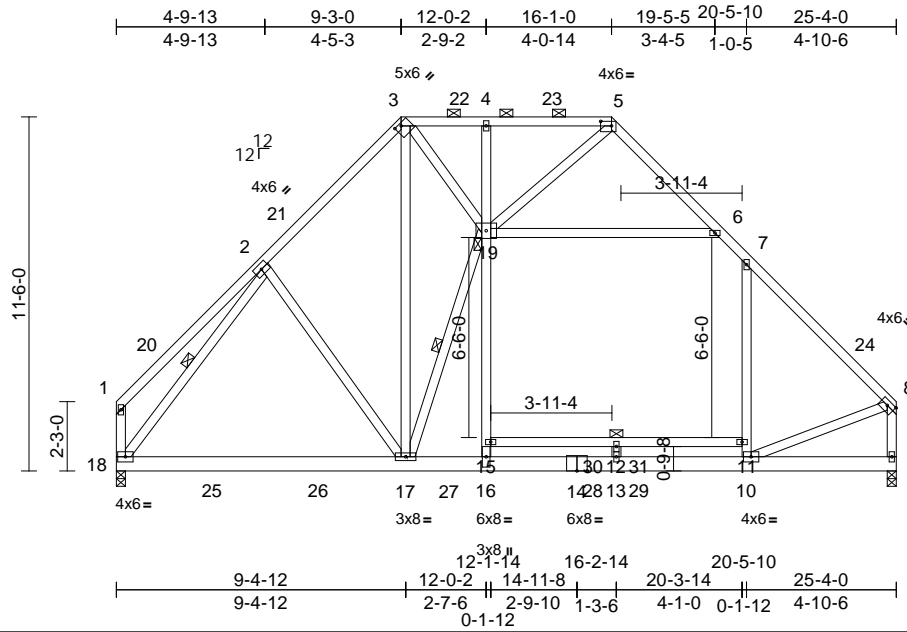
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T05D	Truss Type Piggyback Base	Qty 6	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360549
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:31
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Page: 1



Scale = 1:74.8
Plate Offsets (X, Y): [3:0-2-8,0-1-0], [5:0-4-4,0-1-12], [8:0-3-0,0-1-12]

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	0.53	Vert(LL)	-0.12	11-12	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.32	11-12	>935	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	10-13	>999	240		
BCDL	10.0										Weight: 234 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* 15-11:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-8 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 11-15

WEBS 1 Row at midpt 2-18, 17-19
JOINTS 1 Brace at Jt(s): 19

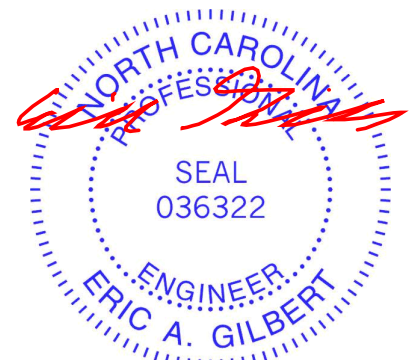
REACTIONS (size) 9=0-3-8, 18=0-3-8
Max Horiz 18=193 (LC 8)
Max Grav 9=1734 (LC 40), 18=1467 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-234/106, 2-3=-1367/0, 3-4=-1041/0, 4-5=-1036/0, 5-6=-846/1, 6-7=-1338/0, 7-8=-1765/0, 1-18=-236/98, 8-9=-1796/0
BOT CHORD 17-18=0/975, 16-17=0/1171, 13-16=0/1167, 10-13=0/1167, 9-10=-37/65, 12-15=-7/0, 11-12=-7/0
WEBS 2-18=-1379/0, 8-10=0/1206, 6-19=-814/0, 5-19=0/683, 2-17=-101/261, 10-11=0/348, 7-11=0/485, 15-16=0/1044, 15-19=0/1181, 4-19=-344/95, 3-17=-145/849, 3-19=-236/482, 17-19=-1075/0, 12-13=-233/0

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 500.0lb AC unit load placed on the bottom chord, 16-2-14 from left end, supported at two points, 1-6-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- NOTES (11)**
1) Unbalanced roof live loads have been considered for this design.



December 23, 2024

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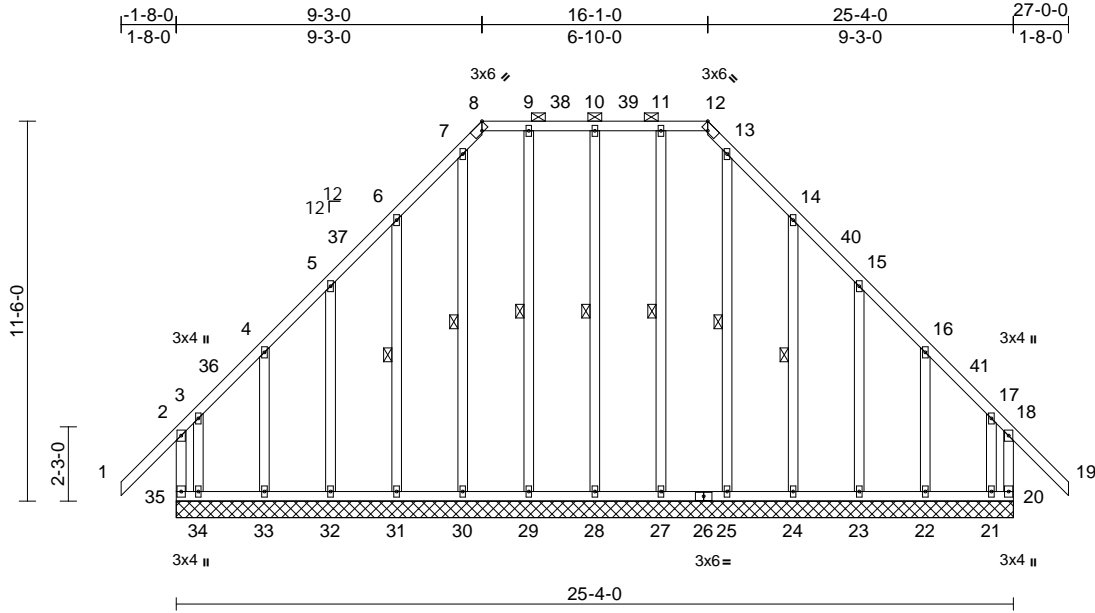
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T05E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360550
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:32
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Page: 1



Scale = 1:69.7

Plate Offsets (X, Y): [8:0-2-8,Edge], [12:0-2-8,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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0											
											Weight: 243 lb	FT = 20%

LUMBER	TOP CHORD	2-35=-351/284, 1-2=0/85, 2-3=-259/286, 3-4=-125/161, 4-5=-107/205, 5-6=-88/256, 6-7=-72/329, 7-8=-41/221, 8-9=-6/245, 9-10=-6/245, 10-11=-6/245, 11-12=-6/245, 12-13=-41/220, 13-14=-65/323, 14-15=-82/250, 15-16=-100/199, 16-17=-117/153, 17-18=-242/272, 18-19=0/85, 18-20=-338/269	5) Unbalanced snow loads have been considered for this design.
TOP CHORD	2x4 SP No.1		
BOT CHORD	2x4 SP No.1		
WEBS	2x4 SP No.2		
OTHERS	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.): 8-12.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		
WEBS	1 Row at midpt	10-28, 9-29, 7-30, 6-31, 11-27, 13-25, 14-24	

REACTIONS	(size)	20=25-4-0, 21=25-4-0, 22=25-4-0, 23=25-4-0, 24=25-4-0, 25=25-4-0, 27=25-4-0, 28=25-4-0, 29=25-4-0, 30=25-4-0, 31=25-4-0, 32=25-4-0, 33=25-4-0, 34=25-4-0, 35=25-4-0	WEBS	10-28=-181/58, 9-29=-177/11, 7-30=-197/5, 6-31=-187/140, 5-32=-179/102, 4-33=-181/115, 3-34=-202/199, 11-27=-177/9, 13-25=-194/0, 14-24=-188/140, 15-23=-179/102, 16-22=-181/115, 17-21=-192/190
Max Horiz		35=231 (LC 11)		
Max Uplift		20=473 (LC 9), 21=420 (LC 8), 22=80 (LC 13), 23=81 (LC 13), 24=115 (LC 13), 28=34 (LC 8), 31=115 (LC 12), 32=81 (LC 12), 33=80 (LC 12), 34=442 (LC 9), 35=501 (LC 8)		
Max Grav		20=521 (LC 26), 21=475 (LC 11), 22=244 (LC 45), 23=283 (LC 45), 24=286 (LC 45), 25=295 (LC 47), 27=276 (LC 48), 28=245 (LC 40), 29=277 (LC 48), 30=297 (LC 49), 31=286 (LC 43), 32=284 (LC 43), 33=244 (LC 43), 34=500 (LC 10), 35=544 (LC 27)		

FORCES	(lb) - Maximum Compression/Maximum Tension	NOTES (16)
		1) Unbalanced roof live loads have been considered for this design.
		2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0



December 23, 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)



818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T05E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	I70360550
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:32
ID:Rpr6vQWcXS0WHloCEJhB3JyMcAY-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 2

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 501 lb uplift at joint 35, 473 lb uplift at joint 20, 34 lb uplift at joint 28, 115 lb uplift at joint 31, 81 lb uplift at joint 32, 80 lb uplift at joint 33, 442 lb uplift at joint 34, 115 lb uplift at joint 24, 81 lb uplift at joint 23, 80 lb uplift at joint 22 and 420 lb uplift at joint 21.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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/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)



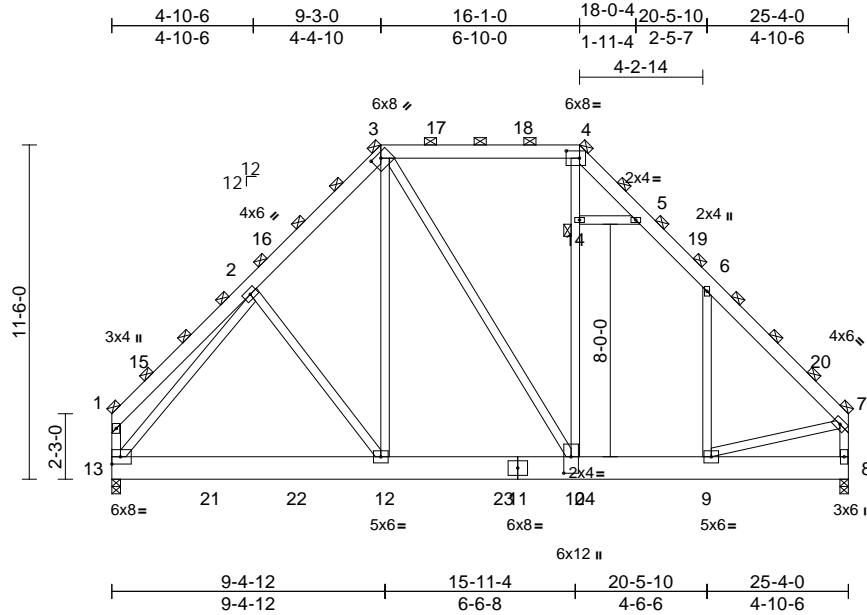
818 Soundside Road
Edenton, NC 27932

Job 4293514	Truss T05G	Truss Type Piggyback Base Girder	Qty 1	Ply 3	4293514-BRAD CUMMINGS- WILDER Job Reference (optional)	170360551
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Sat Dec 21 01:31:32
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Page: 1



Scale = 1:79.2

Plate Offsets (X, Y): [3:0-3-12,0-2-0], [4:0-5-8,0-3-0], [10:0-6-12,0-3-0]

Loading	(psf)	Spacing	8-6-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.05	9-10	>999	360	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.08	9-10	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240		
BCDL	10.0											
											Weight: 811 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
WEBS 2x4 SP No.2

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

JOINTS
1 Brace at Jt(s): 1, 3, 4, 7, 14

REACTIONS
(size) 8=0-3-8, 13=0-3-8
Max Horiz 13=821 (LC 8)
Max Grav 8=5719 (LC 41), 13=4976 (LC 41)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-961/480, 2-3=-4433/434, 3-4=-3073/606, 4-5=-4157/491, 5-6=-4763/433, 6-7=-4754/0, 1-13=-979/434, 7-8=-4635/0
BOT CHORD 12-13=-458/3368, 10-12=-172/2956, 9-10=0/3084, 8-9=-118/297
WEBS 3-12=-215/1632, 3-10=-460/1024, 10-14=-78/2050, 4-14=-79/2058, 2-13=-4397/0, 7-9=0/3095, 2-12=-763/942, 6-9=-1675/1103, 5-14=-200/34

NOTES (11)
1) 3-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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=16.5 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-183, 3-4=-226, 4-7=-183, 13-24=-85, 8-24=-130
 - Dead + 0.75 Roof Live (balanced) + 0.75 Uninh. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-213, 3-4=-213, 4-7=-213, 13-21=-85, 21-22=-213, 12-22=-85, 12-23=-213, 10-23=-85, 10-24=-213, 9-24=-347, 8-9=-220



December 23, 2024

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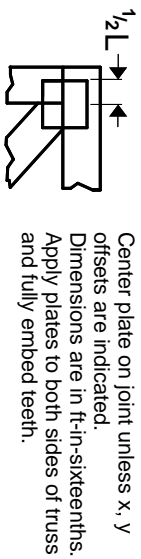
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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.sbccomponents.com)



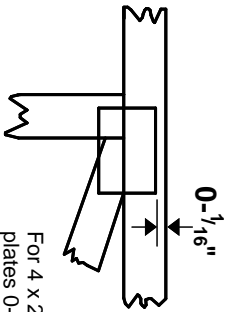
818 Soundside Road
Edenton, NC 27932

Symbols

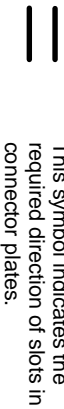
PLATE LOCATION AND ORIENTATION



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

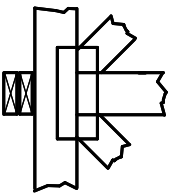
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

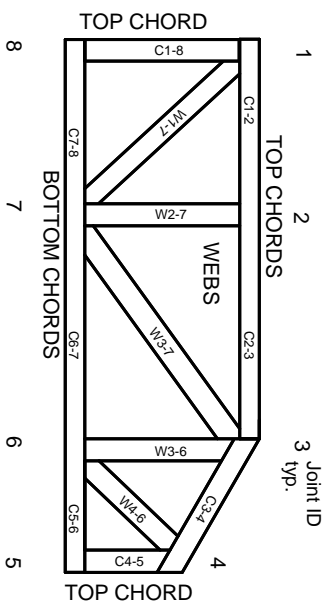


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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



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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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

MITek

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