

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0425-1937
Lot 19 Turlington Acres

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I73175046 thru I73175062

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 2, 2025

Galinski, John

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

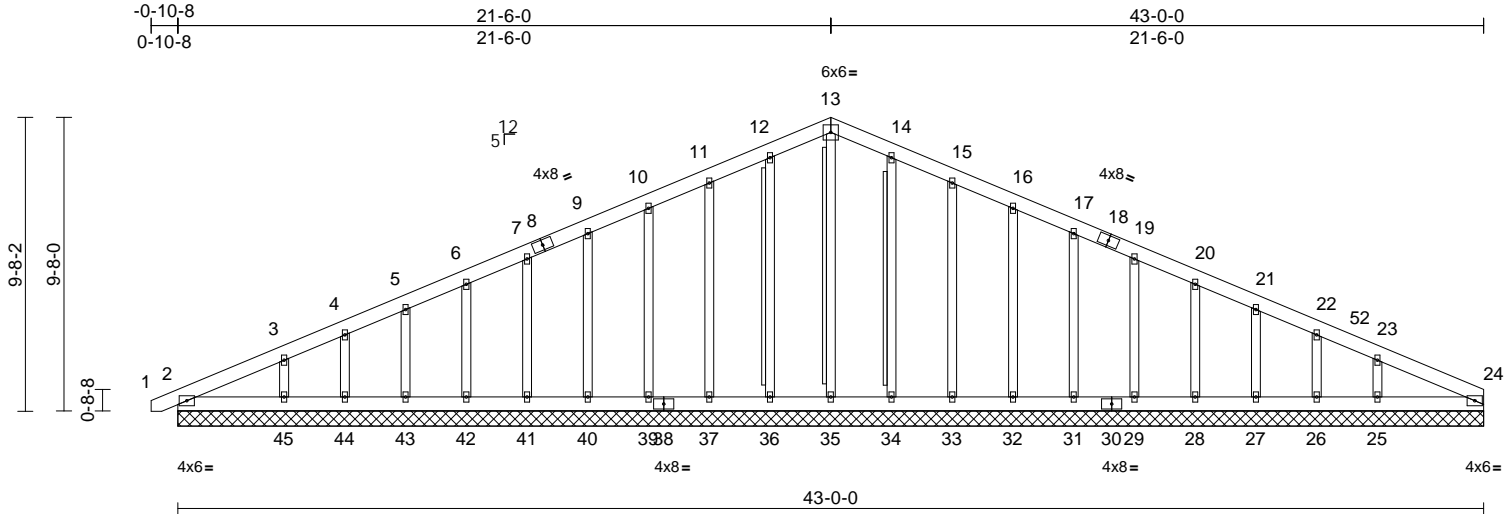
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	I73175046
J0425-1937	A01	Common Supported Gable	1	1	-	
Job Reference (optional)						

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:07

Page: 1

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Scale = 1:75.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	24	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
Weight: 348 lb FT = 25%											

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF No.2(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.
WEBS T-Brace: 2x4 SPF No.2 - 13-35, 12-36, 14-34
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size)
2=43-0-0, 24=43-0-0, 25=43-0-0, 26=43-0-0, 27=43-0-0, 28=43-0-0, 29=43-0-0, 31=43-0-0, 32=43-0-0, 33=43-0-0, 34=43-0-0, 35=43-0-0, 36=43-0-0, 37=43-0-0, 39=43-0-0, 40=43-0-0, 41=43-0-0, 42=43-0-0, 43=43-0-0, 44=43-0-0, 45=43-0-0, 46=43-0-0, 49=43-0-0
Max Horiz 2=115 (LC 12), 46=115 (LC 12)
Max Uplift 2=2 (LC 13), 25=63 (LC 13), 26=16 (LC 13), 27=31 (LC 13), 28=28 (LC 13), 29=29 (LC 13), 31=28 (LC 13), 32=29 (LC 13), 33=35 (LC 13), 34=6 (LC 13), 36=12 (LC 12), 37=34 (LC 12), 39=29 (LC 12), 40=28 (LC 12), 41=29 (LC 12), 42=28 (LC 12), 43=31 (LC 12), 44=14 (LC 12), 45=67 (LC 12), 46=2 (LC 13)

Max Grav 2=175 (LC 1), 24=127 (LC 1), 25=280 (LC 26), 26=116 (LC 1), 27=169 (LC 26), 28=158 (LC 1), 29=160 (LC 26), 31=160 (LC 1), 32=160 (LC 1), 33=162 (LC 26), 34=160 (LC 26), 35=151 (LC 22), 36=160 (LC 25), 37=162 (LC 25), 39=160 (LC 1), 40=160 (LC 1), 41=160 (LC 25), 42=158 (LC 1), 43=168 (LC 25), 44=120 (LC 1), 45=271 (LC 25), 46=175 (LC 1), 49=127 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD
1-2=0/16, 2-3=-141/55, 3-4=-104/53, 4-5=-87/65, 5-6=-75/84, 6-7=-62/119, 7-9=-69/166, 9-10=-86/212, 10-11=-102/259, 11-12=-120/309, 12-13=-131/341, 13-14=-131/341, 14-15=-120/309, 15-16=-102/259, 16-17=-86/212, 17-19=-69/166, 19-20=-53/119, 20-21=-49/72, 21-22=-53/25, 22-23=-70/8, 23-24=-120/41
BOT CHORD
2-45=-37/162, 44-45=-37/162, 43-44=-37/162, 42-43=-37/162, 41-42=-37/162, 40-41=-37/162, 39-40=-37/162, 38-39=-37/162, 36-37=-37/162, 35-36=-37/162, 34-35=-37/162, 33-34=-37/162, 32-33=-37/162, 31-32=-37/162, 29-31=-37/162, 28-29=-37/162, 27-28=-37/162, 26-27=-37/162, 25-26=-37/162, 24-25=-37/162

WEBS
13-35=-129/12, 12-36=-120/58, 11-37=-122/109, 10-39=-120/98, 9-40=-120/97, 7-41=-120/97, 6-42=-120/97, 5-43=-123/101, 4-44=-100/82, 3-45=-183/199, 14-34=-120/58, 15-33=-122/109, 16-32=-120/98, 17-31=-120/97, 19-29=-120/97, 20-28=-120/97, 21-27=-123/100, 22-26=-99/81, 23-25=-187/221

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-8-7 to 3-6-0, Exterior(2N) 3-6-0 to 21-6-0, Corner(3R) 21-6-0 to 25-10-13, Exterior(2N) 25-10-13 to 43-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



May 2, 2025

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/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.sbcacompnents.com)

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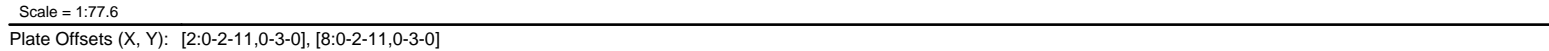
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	A01	Common Supported Gable	1	1	-
					Job Reference (optional)

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2, 12 lb uplift at joint 36, 34 lb uplift at joint 37, 29 lb uplift at joint 39, 28 lb uplift at joint 40, 29 lb uplift at joint 41, 28 lb uplift at joint 42, 31 lb uplift at joint 43, 14 lb uplift at joint 44, 67 lb uplift at joint 45, 6 lb uplift at joint 34, 35 lb uplift at joint 33, 29 lb uplift at joint 32, 28 lb uplift at joint 31, 29 lb uplift at joint 29, 28 lb uplift at joint 28, 31 lb uplift at joint 27, 16 lb uplift at joint 26, 63 lb uplift at joint 25 and 2 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

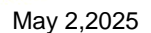
LOAD CASE(S) Standard

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.630 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:08 Page: 1
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LUMBER		6) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
TOP CHORD	2x6 SP No.1	
BOT CHORD	2x6 SP No.1	7) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.
WEBS	2x4 SP No.2	
BRACING		8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Structural wood sheathing directly applied.	
REACTIONS	(size) 2=0-3-8, 8=0-3-8	
	Max Horiz 2=115 (LC 12)	
	Max Uplift 2=-18 (LC 12), 8=-9 (LC 13)	
	Max Grav 2=2052 (LC 2), 8=2016 (LC 2)	
FORCES	(lb) - Maximum Compression/Maximum Tension	LOAD CASE(S) Standard
TOP CHORD	1-2=0/16, 2-3=-4012/452, 3-5=-3661/406, 5-7=-3662/412, 7-8=-4013/459	
BOT CHORD	2-14=-323/3625, 10-14=-102/2440, 8-10=-309/3626	
WEBS	5-14=0/1416, 3-14=-670/353, 7-10=-671/353, 5-10=0/1418	

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 21-6-0,
Exterior(2R) 21-6-0 to 25-10-13, Interior (1) 25-10-13 to
43-0-0 zone; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 21-6-0
from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-6-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.



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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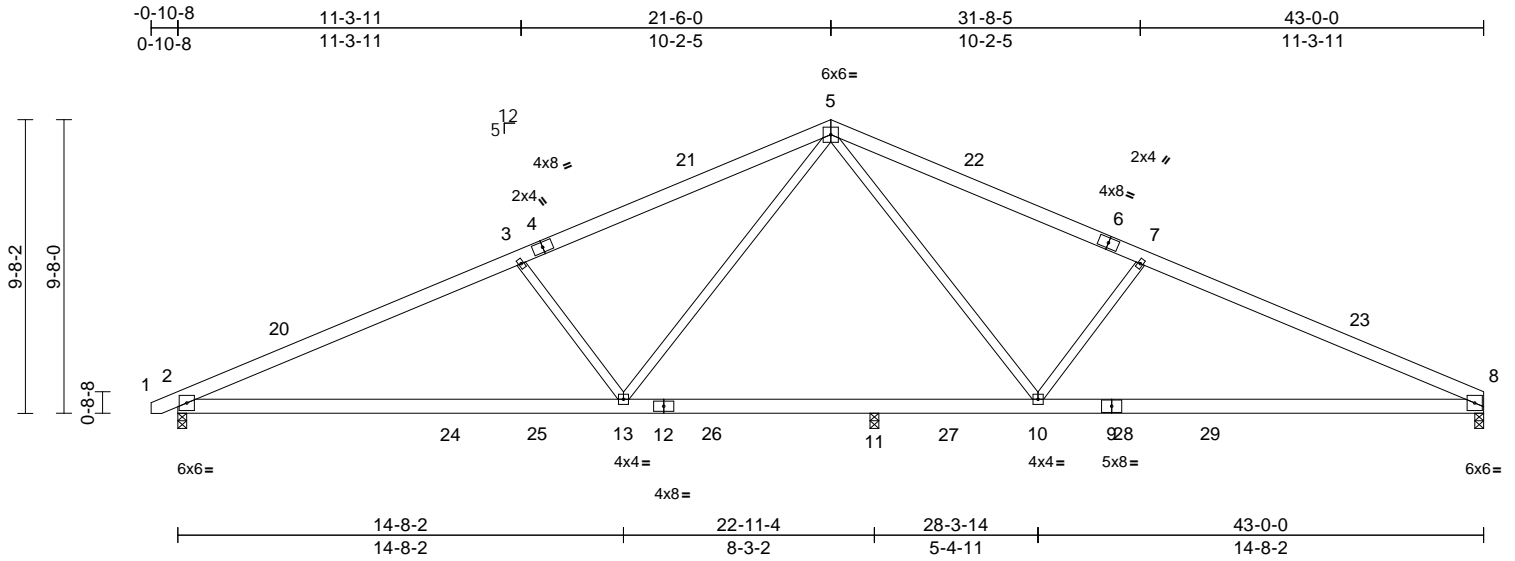
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	
J0425-1937	A03	Common	1	1	-	173175048
Job Reference (optional)						

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:75.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.36	10-19	>678	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.68	10-19	>354	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.13	10-19	>999	240	Weight: 262 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=0-3-8, 8=0-3-8, 11=0-3-8
Max Horiz 2=115 (LC 12)
Max Uplift 2=-126 (LC 12), 8=-119 (LC 13)
Max Grav 2=1804 (LC 2), 8=1745 (LC 2),
11=344 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-3307/685, 3-5=-2994/660,
5-7=-2926/665, 7-8=-3241/691
BOT CHORD 2-13=-531/2998, 11-13=-257/1986,
10-11=-257/1986, 8-10=-515/2938
WEBS 3-13=-687/339, 5-13=-128/1177,
5-10=-125/1081, 7-10=-691/340

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 21-6-0,
Exterior(2R) 21-6-0 to 25-10-13, Interior (1) 25-10-13 to
43-0-0 zone; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.

- 6) One RT3A MiTek connectors recommended to connect
truss to bearing walls due to UPLIFT at jt(s) 2, 8, and 11.
This connection is for uplift only and does not consider
lateral forces.
- 7) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2, 2025

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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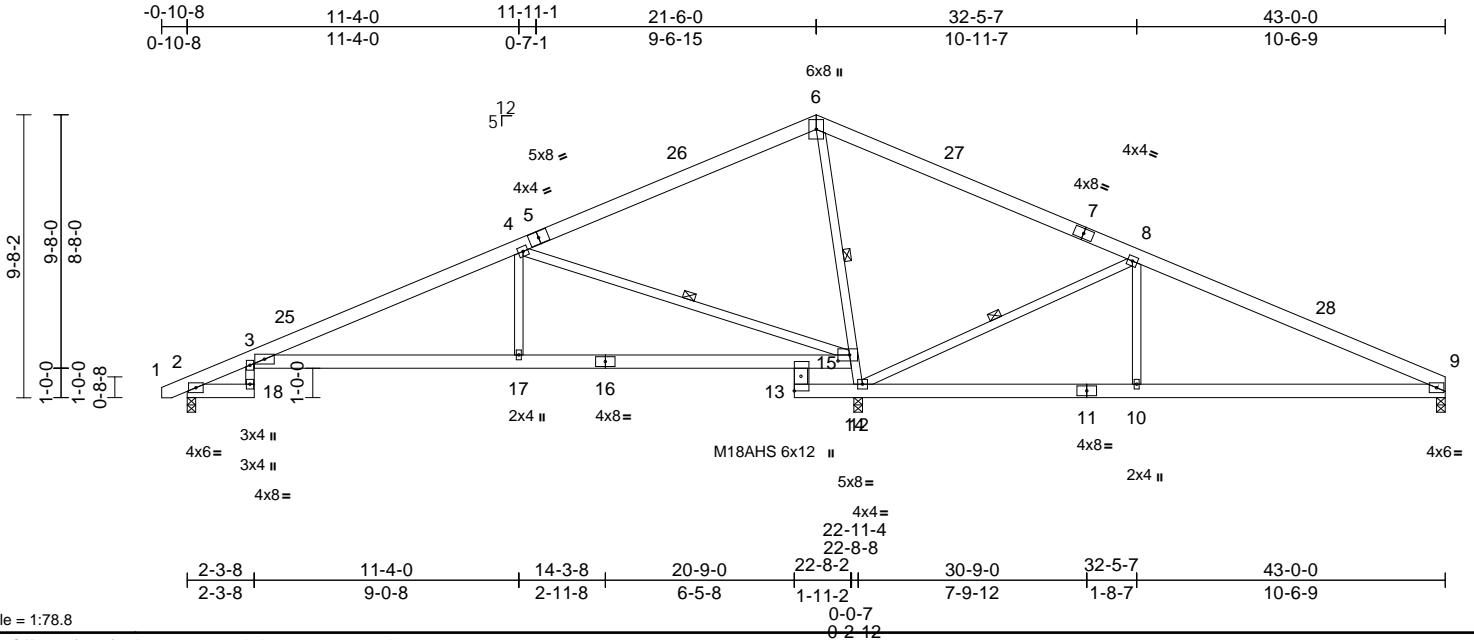
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	173175049
J0425-1937	A04	Roof Special	4	1	-	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:78.8

Plate Offsets (X, Y): [3:0-0-3,0-0-4], [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	0.59	Vert(LL)	-0.21	3-17	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.40	3-17	>687	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.10	12	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.19	3-17	>999	240	Weight: 276 lb FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except* 18-3:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.
WEBS 1 Row at midpt 6-12, 4-14, 8-12

REACTIONS

(size) 2=0-3-8, 9=0-3-8, 12=0-3-8
Max Horiz 2=115 (LC 12)
Max Uplift 2=62 (LC 12), 9=147 (LC 13),
12=122 (LC 12)
Max Grav 2=539 (LC 25), 9=510 (LC 26),
12=2666 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-294/118, 3-4=-407/196,
4-6=-45/1144, 6-8=-54/1398, 8-9=-514/649
BOT CHORD 2-18=-84/175, 3-18=-50/239, 13-15=-180/0,
12-13=-823/182, 10-12=-549/415,
9-10=-549/415, 3-17=-91/342,
15-17=-91/341, 14-15=-256/1137
WEBS 4-17=0/417, 6-14=-1480/295,
12-14=-1965/430, 8-10=0/453,
4-14=-1348/330, 8-12=-1249/349

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 21-6-0,
Exterior(2R) 21-6-0 to 25-10-13, Interior (1) 25-10-13 to
43-0-0 zone;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 9. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 2,2025

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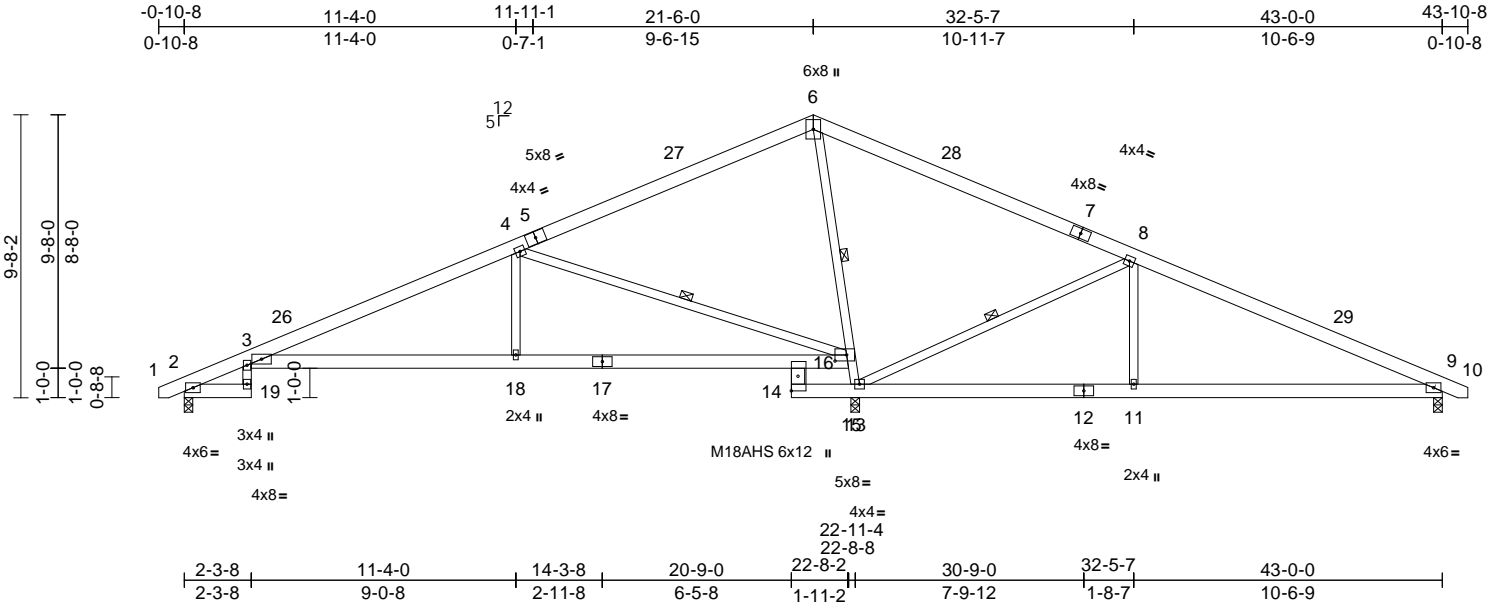
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	A05	Roof Special	2	1	-
					Job Reference (optional)

173175050

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:78.8

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

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	0.59	Vert(LL)	-0.21	3-18	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.40	3-18	>687	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.10	13	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.19	3-18	>999	240	Weight: 278 lb FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except* 19-3:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.
WEBS 1 Row at midpt 6-13, 4-15, 8-13

REACTIONS (size) 2=0-3-8, 9=0-3-8, 13=0-3-8
Max Horiz 2=111 (LC 12)
Max Uplift 2=63 (LC 12), 9=159 (LC 13), 13=119 (LC 12)
Max Grav 2=539 (LC 25), 9=553 (LC 26), 13=2665 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-294/125, 3-4=-407/210, 4-6=-41/1145, 6-8=-49/1398, 8-9=-511/650, 9-10=0/16
BOT CHORD 2-19=-82/175, 3-19=-49/239, 14-16=-180/0, 13-14=-823/184, 11-13=-550/412, 9-11=-550/412, 3-18=-90/341, 16-18=-90/341, 15-16=-253/1137
WEBS 4-18=0/417, 6-15=-1481/289, 13-15=-1965/416, 8-11=0/452, 4-15=-1348/328, 8-13=-1246/348

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 21-6-0, Exterior(2R) 21-6-0 to 25-10-13, Interior (1) 25-10-13 to 43-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 9. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 2, 2025

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.sbcacompoments.com)

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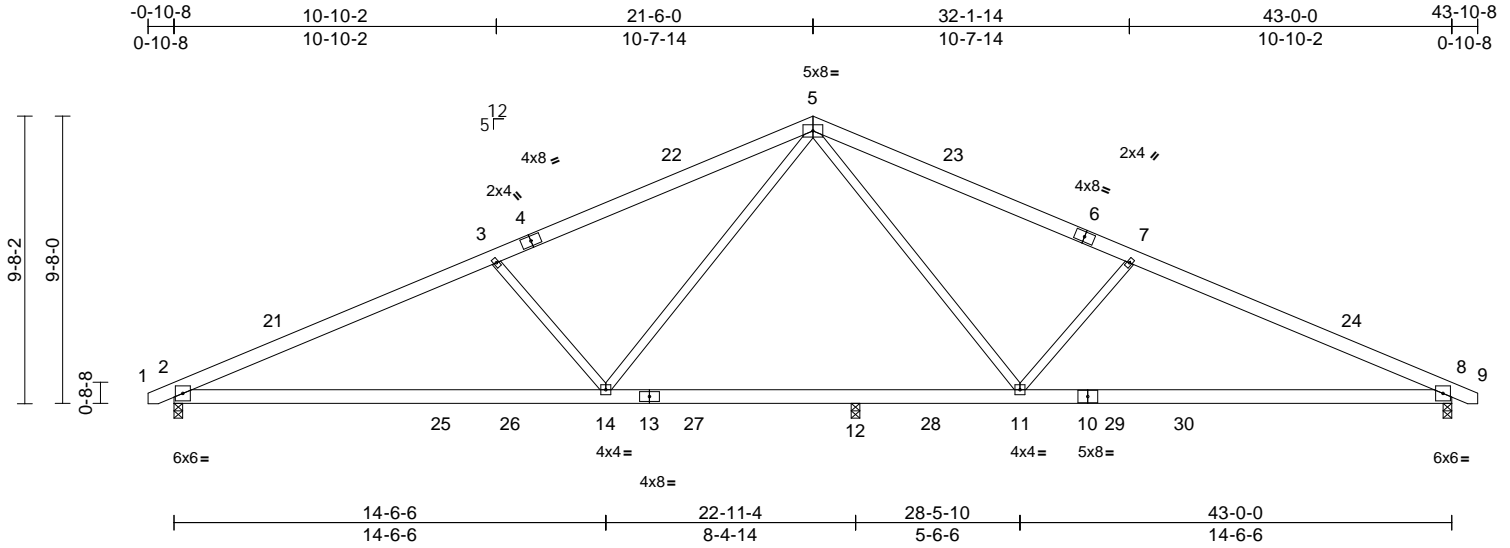
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	173175051
J0425-1937	A06	Common	1	1	-	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:08
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Page: 1



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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	0.41	Vert(LL)	-0.33	11-20	>723	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.64	11-20	>374	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.12	11-20	>999	240	Weight: 264 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=0-3-8, 8=0-3-8, 12=0-3-8
Max Horiz 2=-111 (LC 13)
Max Uplift 2=-128 (LC 12), 8=-131 (LC 13)
Max Grav 2=1787 (LC 2), 8=1763 (LC 2),
12=365 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-3299/699, 3-5=-2957/655,
5-7=-2882/654, 7-8=-3226/698, 8-9=0/16
BOT CHORD 2-14=-527/2994, 12-14=-241/1960,
11-12=-241/1960, 8-11=-522/2929
WEBS 5-14=-114/1146, 7-11=-700/342,
5-11=-111/1042, 3-14=-696/342

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 21-6-0,
Exterior(2R) 21-6-0 to 25-10-13, Interior (1) 25-10-13 to
43-8-7 zone; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.

- 6) One RT3A MiTek connectors recommended to connect
truss to bearing walls due to UPLIFT at jt(s) 2, 8, and 12.
This connection is for uplift only and does not consider
lateral forces.
- 7) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2, 2025

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)

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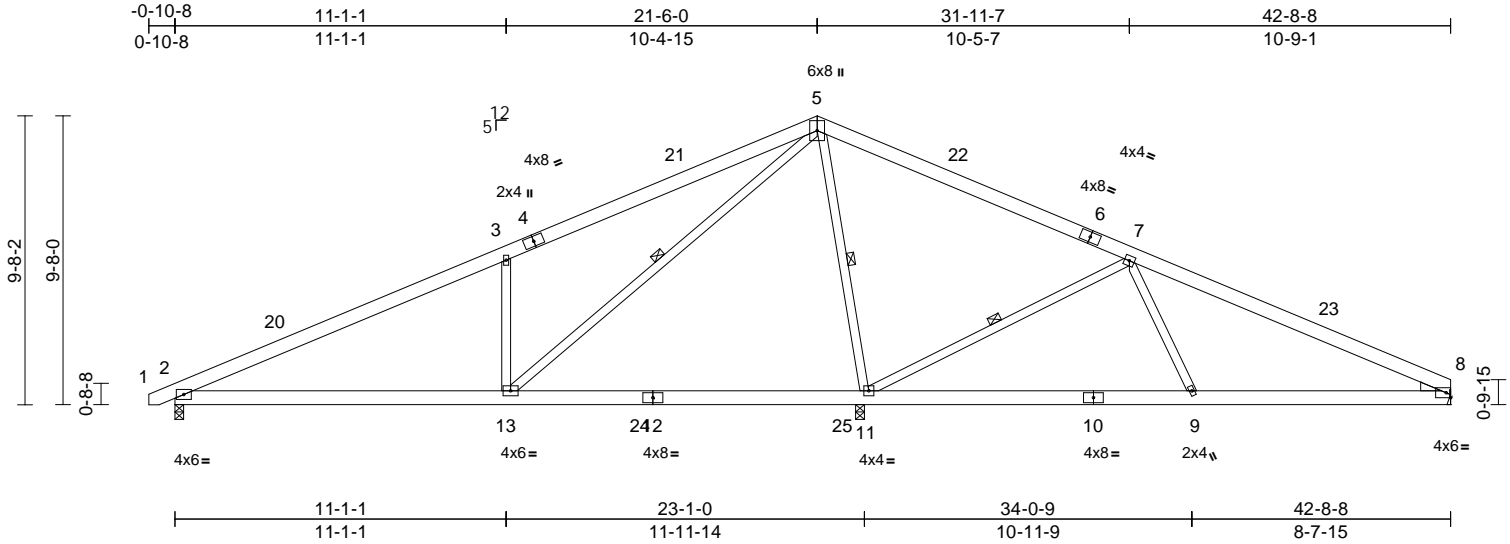
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	173175052
J0425-1937	A07	Common	6	1	-	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:09
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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	0.40	Vert(LL)	-0.17	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.25	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	13-16	>999	240	Weight: 273 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
WEDGE	Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.
WEBS	1 Row at midpt 5-11, 7-11, 5-13

REACTIONS	(size)	2=0-3-8, 8= Mechanical, 11=0-3-8
	Max Horiz	2=117 (LC 12)
	Max Uplift	2=-101 (LC 12), 8=-99 (LC 13), 11=-38 (LC 12)
	Max Grav	2=869 (LC 27), 8=645 (LC 28), 11=2306 (LC 2)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/16, 2-3=-1193/286, 3-5=-1244/471, 5-7=0/578, 7-8=-888/216
BOT CHORD	2-13=-171/1044, 11-13=-218/122, 9-11=-131/620, 8-9=-130/722
WEBS	5-11=-1337/325, 7-11=-1054/349, 7-9=0/447, 3-13=-720/374, 5-13=-370/1633

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 21-6-0, Exterior(2R) 21-6-0 to 25-10-13, Interior (1) 25-10-13 to 42-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 11 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 8.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 2, 2025

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)

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Edenton, NC 27932

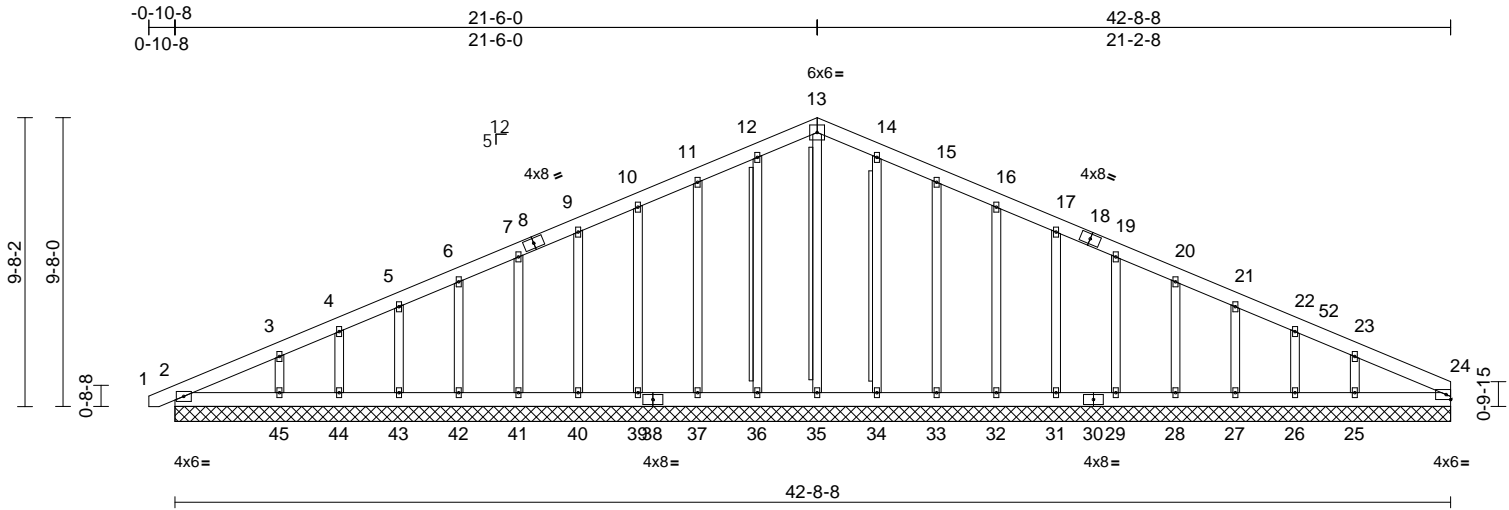
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	173175053
J0425-1937	A08	Common Supported Gable	1	1	-	
Job Reference (optional)						

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:09

Page: 1

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Scale = 1:77.1

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	0.05	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	24	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
										Weight: 347 lb	FT = 25%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF No.2(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.
WEBS T-Brace: 2x4 SPF No.2 - 13-35, 12-36, 14-34
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

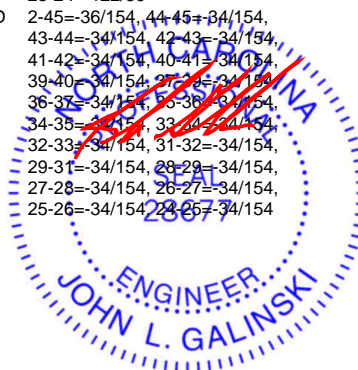
REACTIONS (size)
2=42-8-8, 24=42-8-8, 25=42-8-8, 26=42-8-8, 27=42-8-8, 28=42-8-8, 29=42-8-8, 31=42-8-8, 32=42-8-8, 33=42-8-8, 34=42-8-8, 35=42-8-8, 36=42-8-8, 37=42-8-8, 39=42-8-8, 40=42-8-8, 41=42-8-8, 42=42-8-8, 43=42-8-8, 44=42-8-8, 45=42-8-8, 46=42-8-8, 49=42-8-8
Max Horiz 2=117 (LC 12), 46=117 (LC 12)
Max Uplift 2=-2 (LC 13), 25=-67 (LC 13), 26=-15 (LC 13), 27=-31 (LC 13), 28=-28 (LC 13), 29=-29 (LC 13), 31=-28 (LC 13), 32=-29 (LC 13), 33=-35 (LC 13), 34=-6 (LC 13), 36=-12 (LC 12), 37=-34 (LC 12), 39=-29 (LC 12), 40=-28 (LC 12), 41=-29 (LC 12), 42=-28 (LC 12), 43=-31 (LC 12), 44=-14 (LC 12), 45=-67 (LC 12), 46=-2 (LC 13)

Max Grav 2=176 (LC 1), 24=120 (LC 1), 25=256 (LC 26), 26=128 (LC 1), 27=167 (LC 26), 28=159 (LC 1), 29=160 (LC 26), 31=160 (LC 1), 32=160 (LC 1), 33=162 (LC 26), 34=160 (LC 26), 35=150 (LC 22), 36=160 (LC 25), 37=162 (LC 25), 39=160 (LC 1), 40=160 (LC 1), 41=160 (LC 25), 42=158 (LC 1), 43=168 (LC 25), 44=120 (LC 1), 45=271 (LC 25), 46=176 (LC 1), 49=120 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-141/55, 3-4=-106/53, 4-5=-89/66, 5-6=-76/84, 6-7=-63/121, 7-9=-70/167, 9-10=-87/214, 10-11=-103/261, 11-12=-121/311, 12-13=-132/343, 13-14=-132/343, 14-15=-121/311, 15-16=-103/261, 16-17=-87/214, 17-19=-70/167, 19-20=-54/121, 20-21=-51/74, 21-22=-54/26, 22-23=-70/7, 23-24=-122/39
BOT CHORD 2-45=-36/154, 44-45=-34/154, 43-44=-34/154, 42-43=-34/154, 41-42=-34/154, 40-41=-34/154, 39-40=-34/154, 27-28=-34/154, 36-37=-34/154, 35-36=-34/154, 34-35=-34/154, 33-34=-34/154, 32-33=-34/154, 31-32=-34/154, 29-31=-34/154, 28-29=-34/154, 27-28=-34/154, 26-27=-34/154, 25-26=-34/154, 24-25=-34/154

WEBS 13-35=-130/12, 12-36=-120/58, 11-37=-122/109, 10-39=-120/98, 9-40=-120/97, 7-41=-120/97, 6-42=-120/97, 5-43=-123/101, 4-44=-100/82, 3-45=-183/199, 14-34=-120/58, 15-33=-122/109, 16-32=-120/98, 17-31=-120/97, 19-29=-120/97, 20-28=-120/97, 21-27=-122/100, 22-26=-103/83, 23-25=-176/223

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-8-7 to 3-6-0, Exterior(2N) 3-6-0 to 21-6-0, Corner(3R) 21-6-0 to 25-10-13, Exterior(2N) 25-10-13 to 42-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



May 2, 2025

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	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	A08	Common Supported Gable	1	1	-
					Job Reference (optional)

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2, 12 lb uplift at joint 36, 34 lb uplift at joint 37, 29 lb uplift at joint 39, 28 lb uplift at joint 40, 29 lb uplift at joint 41, 28 lb uplift at joint 42, 31 lb uplift at joint 43, 14 lb uplift at joint 44, 67 lb uplift at joint 45, 6 lb uplift at joint 34, 35 lb uplift at joint 33, 29 lb uplift at joint 32, 28 lb uplift at joint 31, 29 lb uplift at joint 29, 28 lb uplift at joint 28, 31 lb uplift at joint 27, 15 lb uplift at joint 26, 67 lb uplift at joint 25 and 2 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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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Edenton, NC 27932

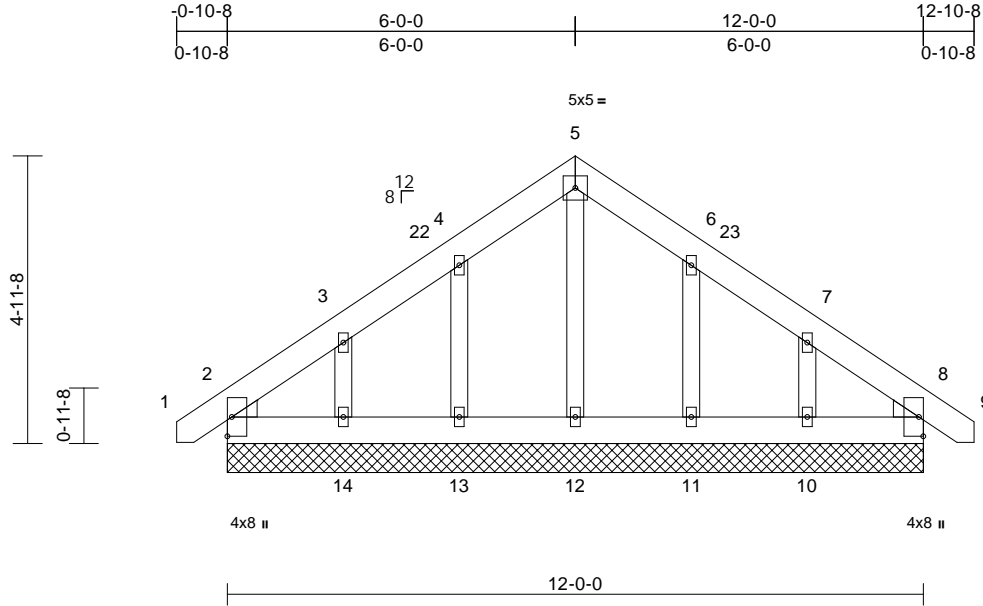
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	173175054
J0425-1937	B01	Common Supported Gable	1	1	-	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:09

Page: 1

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Scale = 1:39.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS						Weight: 87 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.

REACTIONS (size)	2=12-0-0, 8=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0, 15=12-0-0, 19=12-0-0
Max Horiz	2=108 (LC 11), 15=108 (LC 11)
Max Uplift	2=-20 (LC 8), 10=-72 (LC 13), 11=-34 (LC 13), 13=-34 (LC 12), 14=-76 (LC 12), 15=-20 (LC 8)
Max Grav	2=144 (LC 20), 8=143 (LC 1), 10=186 (LC 20), 11=169 (LC 20), 12=121 (LC 1), 13=170 (LC 19), 14=192 (LC 19), 15=144 (LC 20), 19=143 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/24, 2-3=-93/66, 3-4=-90/94, 4-5=-106/182, 5-6=-106/183, 6-7=-68/88, 7-8=-69/35, 8-9=0/24
BOT CHORD	2-14=-70/133, 13-14=-32/133, 12-13=-32/133, 11-12=-32/133, 10-11=-32/133, 8-10=-32/133
WEBS	5-12=-80/0, 4-13=-135/149, 3-14=-135/203, 6-11=-133/147, 7-10=-136/202

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Corner(3E) -0-8-12 to 3-8-1, Exterior(2N) 3-8-1 to 6-0-0,
Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to
12-8-12 zone; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 20 lb uplift at joint
2, 34 lb uplift at joint 13, 76 lb uplift at joint 14, 34 lb
uplift at joint 11, 72 lb uplift at joint 10 and 20 lb uplift at
joint 2.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2, 2025

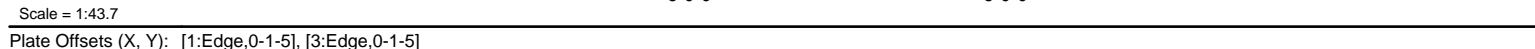
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:09 Page: 1
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LUMBER		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x6 SP No.1	6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD	2x8 SP No.1	7) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
WEBS	2x4 SP No.2	8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
BRACING		9) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 11-0-12 to connect truss(es) to back face of bottom chord.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	10) Fill all nail holes where hanger is in contact with lumber.
BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.	
REACTIONS		LOAD CASE(S) Standard
	(size) 1=0-3-8, 3=0-3-8	1) Dead + Roof Live (balanced): Lumber Increase=1.15
	Max Horiz 1=-96 (LC 4)	
	Max Uplift 1=-354 (LC 8), 3=-361 (LC 9)	
	Max Grav 1=2336 (LC 1), 3=2375 (LC 1)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-2359/388, 2-3=-2359/387	
BOT CHORD	1-4=-266/1890, 3-4=-266/1890	
WEBS	2-4=-309/2153	

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-625 (B), 12=-625 (B), 13=-625 (B),
14=-625 (B), 15=-625 (B), 16=-626 (B)






May 2, 2025

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ENGINEERING BY
MiTek Affiliates

818 Soundside Road
Ft. Worth, NC 27432

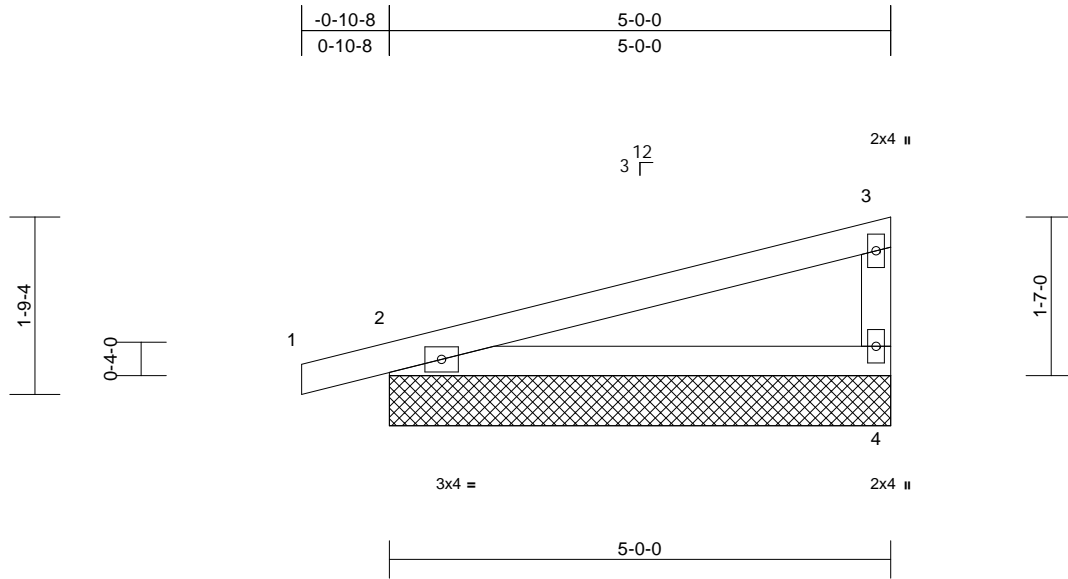
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	M01	Monopitch Structural Gable	1	1	-
					Job Reference (optional)

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Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:23

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 18 lb FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS

(size) 2=5-0-0, 4=5-0-0, 5=5-0-0
Max Horiz 2=50 (LC 8), 5=50 (LC 8)
Max Uplift 2=-50 (LC 8), 4=-23 (LC 12), 5=-50 (LC 8)
Max Grav 2=251 (LC 1), 4=192 (LC 1), 5=251 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-133/86
BOT CHORD 2-4=-153/144
WEBS 3-4=-125/215

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 4-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 8) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 2,2025

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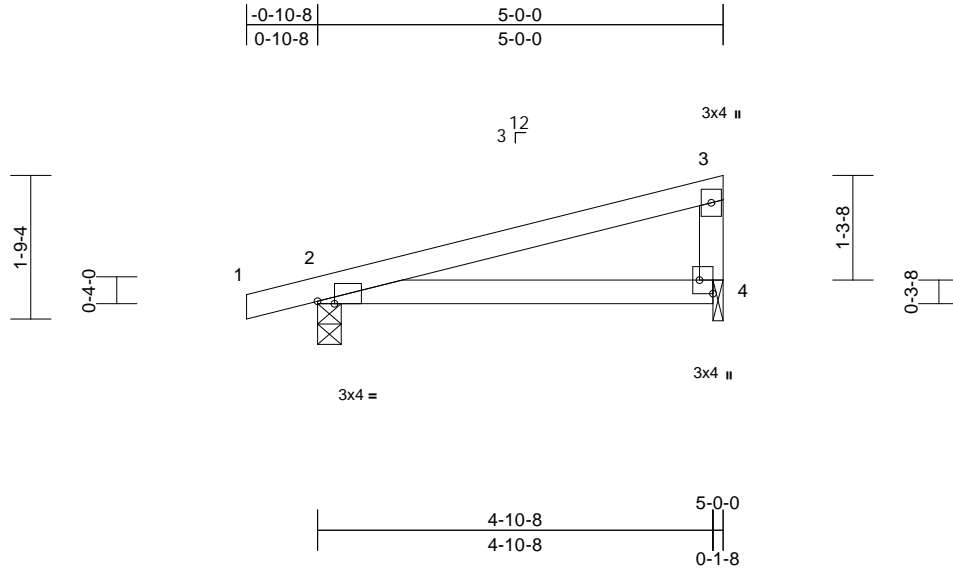
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	M02	Monopitch	13	1	-
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:09
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Page: 1



Scale = 1:28.4

Plate Offsets (X, Y): [2:0-2-8,Edge], [4:Edge,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	0.28	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	4-7	>690	240	Weight: 18 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=0-3-8, 4=0-1-8

Max Horiz 2=50 (LC 8)
Max Uplift 2=-104 (LC 8), 4=-77 (LC 8)
Max Grav 2=251 (LC 1), 4=189 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-129/234, 3-4=-125/185
BOT CHORD 2-4=-260/114

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 4-10-4
zone; porch left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- 5) Bearing at joint(s) 4 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 4.

- 7) One RT3A MiTek connectors recommended to connect
truss to bearing walls due to UPLIFT at jt(s) 2 and 4.
This connection is for uplift only and does not consider
lateral forces.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2,2025

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818 Soundside Road
Edenton, NC 27932

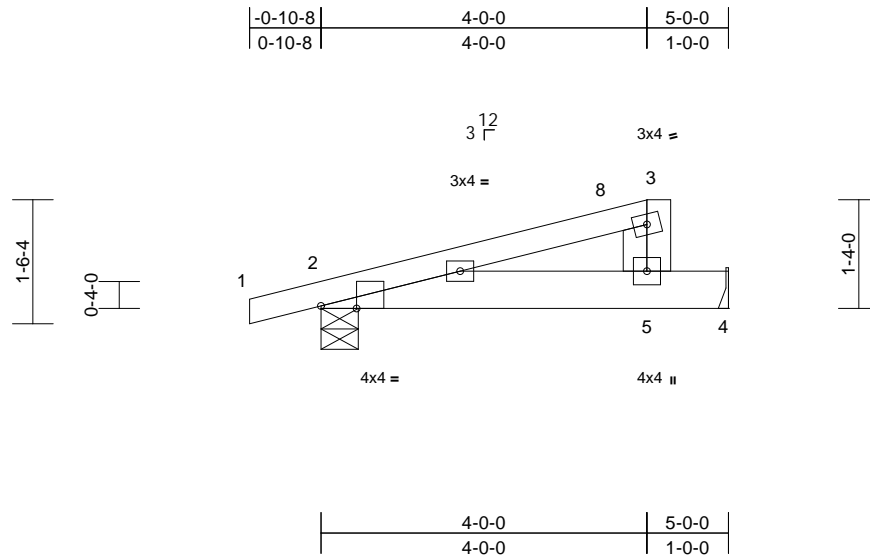
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	M03	Jack-Closed	6	1	-
					Job Reference (optional)

I73175058

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:09
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Page: 1



Scale = 1:28.3

Plate Offsets (X, Y): [2:0-5-4,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	0.18	Vert(LL)	-0.03	5-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.06	5-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	5-7	>999	240	Weight: 21 lb FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=0-5-8, 4= Mechanical
Max Horiz 2=44 (LC 8)
Max Uplift 2=-6 (LC 8)
Max Grav 2=355 (LC 1), 4=595 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-99/40
BOT CHORD 2-5=-22/19, 4-5=0/0
WEBS 3-5=-113/110

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 4-1-12
zone;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SP No.1 crushing
capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) One RT3A MiTek connectors recommended to connect
truss to bearing walls due to UPLIFT at jt(s) 2. This
connection is for uplift only and does not consider lateral
forces.

- 7) Load case(s) 1 has/have been modified. Building
designer must review loads to verify that they are
correct for the intended use of this truss.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 9) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 55 lb
down and 50 lb up at 4-1-12 on bottom chord. The
design/selection of such connection device(s) is the
responsibility of others.
- 10) 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 + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 5=-550 (F=-55)



May 2,2025

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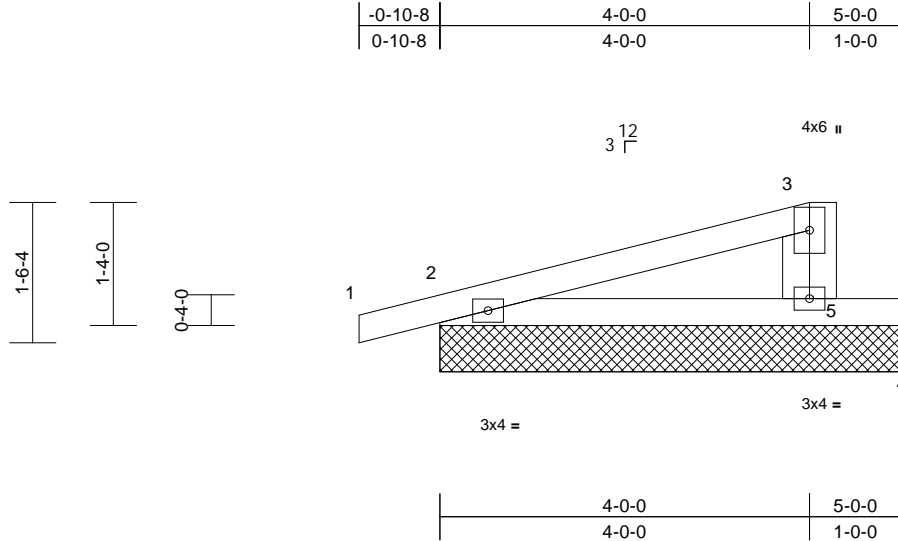
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	
J0425-1937	M04	Monopitch	1	1	-	173175059
Job Reference (optional)						

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 18 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Structural wood sheathing directly applied.

REACTIONS	(size)	2=5-0-0, 4=5-0-0, 5=5-0-0, 6=5-0-0
Max Horiz		2=42 (LC 8), 6=42 (LC 8)
Max Uplift		2=-49 (LC 8), 4=-48 (LC 1), 5=-11 (LC 12), 6=-49 (LC 8)
Max Grav		2=204 (LC 1), 4=6 (LC 12), 5=228 (LC 1), 6=204 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/13, 2-3=-92/51, 3-5=-88/153
BOT CHORD	2-5=-102/102, 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 3-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 8) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 2, and 4. This connection is for uplift only and does not consider lateral forces.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 2,2025

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

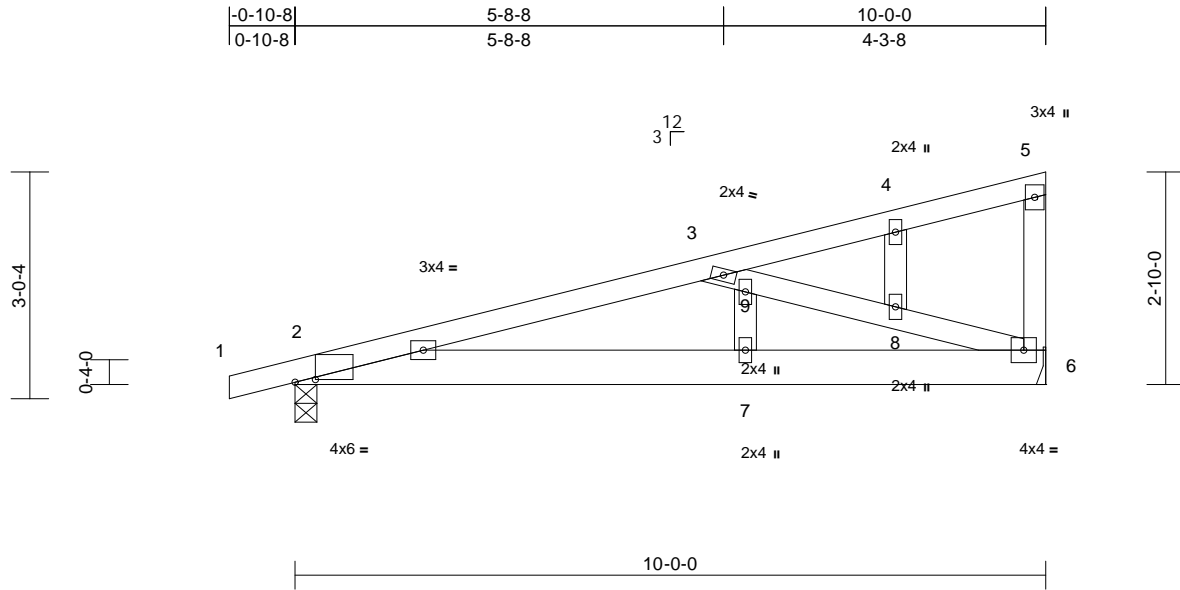
Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres
J0425-1937	P01	Monopitch Structural Gable	2	1	-
					Job Reference (optional)

I73175060

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Jul 12 2024 Print: 8.630 E Jul 12 2024 MiTek Industries, Inc. Fri May 02 15:30:30
ID:BCABTu9cuOOBXIQV559eXFzvA8x-qK53sm2LYIMShmVVnxY1mKuHCExlqSP5rlsTIJzKVEO

Page: 1



Scale = 1:30.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	7-11	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	7-11	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	7-11	>999	240	Weight: 53 lb FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Structural wood sheathing directly applied.

REACTIONS (lb/size) 2=453/0-3-8, 6=385/ Mechanical
Max Horiz 2=91 (LC 8)
Max Uplift 2=-71 (LC 8), 6=-51 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-785/568

BOT CHORD 2-7=-694/747, 6-7=-694/747

WEBS 3-9=-718/693, 8-9=-748/688, 6-8=-765/718

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 9-10-4
zone;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
chord and any other members.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 71 lb uplift at joint
2 and 51 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2,2025

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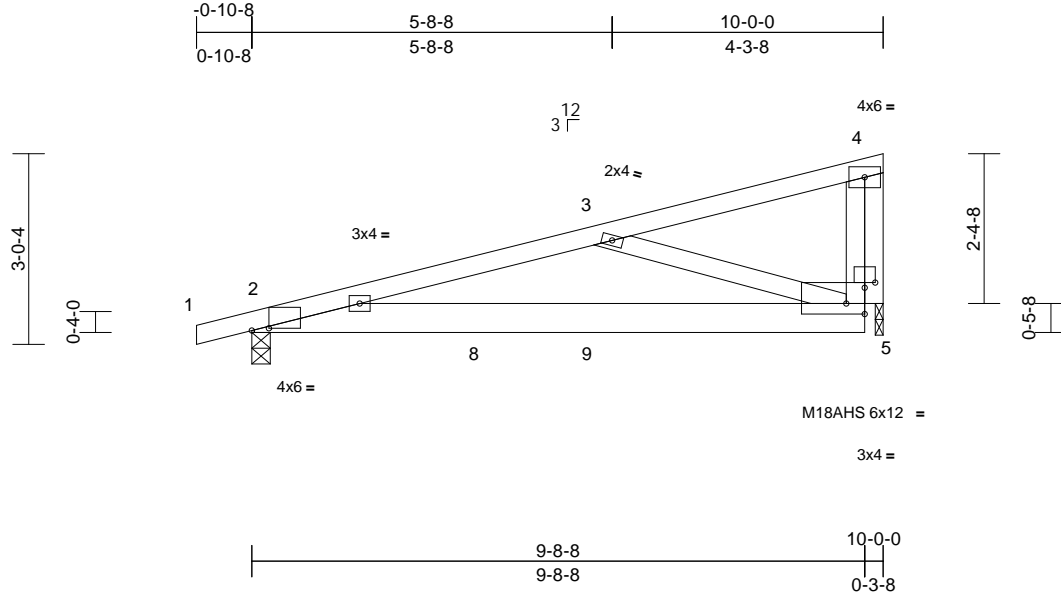
818 Soundside Road
Edenton, NC 27932

Job J0425-1937	Truss P02	Truss Type Monopitch	Qty 4	Ply 1	Lot 19 Turlington Acres - Job Reference (optional)	I73175061
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Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Jul 12 2024 Print: 8.630 E Jul 12 2024 MiTek Industries, Inc. Fri May 02 15:31:01
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Page: 1



Scale = 1:36.5

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

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	0.42	Vert(LL)	0.17	5-7	>685	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.11	5-7	>999	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 52 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (lb/size) 2=447/0-3-8, 5=379/0-1-8
Max Horiz 2=90 (LC 8)
Max Uplift 2=-177 (LC 8), 5=-155 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-675/998
BOT CHORD 2-8=-1076/647, 8-9=-877/647, 5-9=-877/647
WEBS 3-5=-585/716

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 9-8-8
zone; porch left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 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 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearing at joint(s) 5 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 5.

- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 177 lb uplift at
joint 2 and 155 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2, 2025

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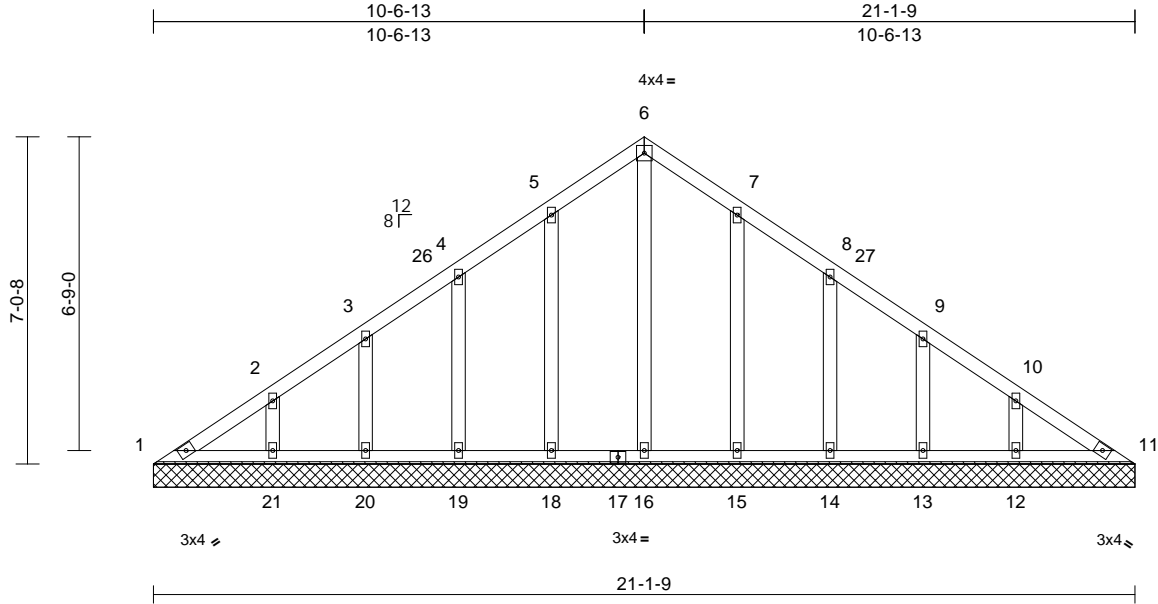
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Turlington Acres	173175062
J0425-1937	V01	Valley	1	1	-	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu May 01 12:22:10
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Page: 1



Scale = 1:49.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
										Weight: 115 lb	FT = 25%

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.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS

(size) 1=21-1-9, 11=21-1-9, 12=21-1-9,
13=21-1-9, 14=21-1-9, 15=21-1-9,
16=21-1-9, 18=21-1-9, 19=21-1-9,
20=21-1-9, 21=21-1-9
Max Horiz 1=-165 (LC 8)
Max Uplift 1=-26 (LC 8), 12=-40 (LC 13),
13=-48 (LC 13), 14=-48 (LC 13),
15=-42 (LC 13), 18=-44 (LC 12),
19=-48 (LC 12), 20=-47 (LC 12),
21=-43 (LC 12)
Max Grav 1=109 (LC 20), 11=83 (LC 1),
12=219 (LC 20), 13=157 (LC 20),
14=175 (LC 20), 15=176 (LC 20),
16=173 (LC 22), 18=178 (LC 19),
19=174 (LC 19), 20=156 (LC 19),
21=223 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-152/144, 2-3=-111/114, 3-4=-87/98,
4-5=-74/117, 5-6=-109/171, 6-7=-109/166,
7-8=-70/109, 8-9=-38/48, 9-10=-53/58,
10-11=-106/85
BOT CHORD 1-21=-76/125, 20-21=-76/110,
19-20=-76/110, 18-19=-76/110,
16-18=-76/110, 15-16=-76/110,
14-15=-76/110, 13-14=-76/110,
12-13=-76/110, 11-12=-76/110
WEBS 6-16=-133/17, 5-18=-139/99, 4-19=-131/100,
3-20=-126/83, 2-21=-150/77, 7-15=-136/99,
8-14=-132/100, 9-13=-127/83, 10-12=-148/77

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) 0-0-0 to 4-6-13, Interior (1) 4-6-13 to
10-6-13, Exterior(2R) 10-6-13 to 14-11-9, Interior (1)
14-11-9 to 21-1-9 zone;C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 9) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 26 lb uplift at joint
1, 44 lb uplift at joint 18, 48 lb uplift at joint 19, 47 lb
uplift at joint 20, 43 lb uplift at joint 21, 42 lb uplift at joint
15, 48 lb uplift at joint 14, 48 lb uplift at joint 13 and 40 lb
uplift at joint 12.
- 11) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



May 2,2025

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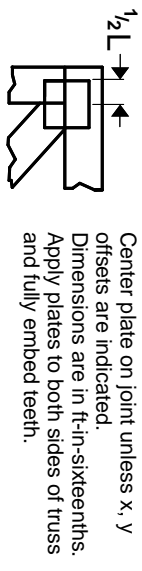
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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



* 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

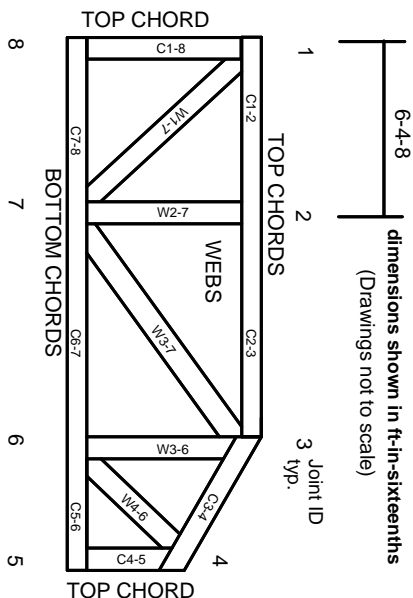


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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 1 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.

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