ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0522-2779
75 Lakewind Ct.

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: I52195382 thru I52195423

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

May 27,2022

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A1GE	GABLE	1	1	I52195382
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:26 2022 Page 1
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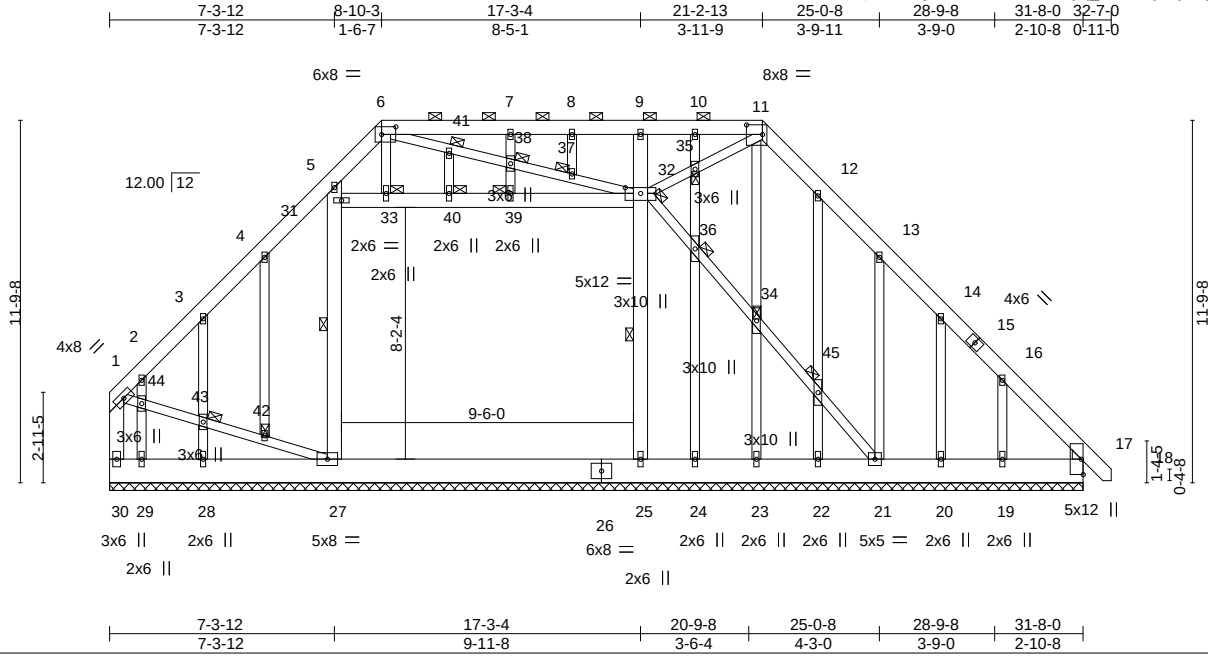

Plate Offsets (X,Y)-- [6:0-5-8,0-3-0], [11:0-6-4,0-3-12], [32:0-6-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	0.00	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 433 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
5-27,9-25,31-32,1-30: 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Right: 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.): 6-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 27-31, 25-32
JOINTS 1 Brace at Jt(s): 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 45

REACTIONS. All bearings 31-8-0.
(lb) - Max Horz 30=-327(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 27, 17, 29 except 30=-188(LC 8), 21=-110(LC 13), 24=-556(LC 18), 28=-288(LC 12), 22=-114(LC 13), 20=-122(LC 13), 19=-270(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 23, 28, 29, 22, 20 except 30=421(LC 22), 27=855(LC 20), 25=1193(LC 2), 21=337(LC 1), 17=348(LC 23), 19=262(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-470/186, 2-3=-454/190, 3-4=-434/164, 4-5=-345/169, 5-6=-601/237, 11-12=-266/240, 14-16=-255/103, 16-17=-421/217, 1-30=-432/161
BOT CHORD 29-30=-294/318, 28-29=-294/318, 27-28=-294/318, 25-27=-155/395, 24-25=-156/388, 23-24=-156/388, 22-23=-156/388, 21-22=-156/388, 20-21=-192/346, 19-20=-191/345, 17-19=-190/344
WEBS 27-31=-374/128, 5-31=-368/161, 25-32=-531/191, 9-32=-429/180, 1-44=-125/337, 43-44=-127/337, 42-43=-124/336, 27-42=-133/351, 6-41=-282/73, 38-41=-273/69, 37-38=-285/73, 32-37=-285/73, 6-33=-54/265, 3-43=-301/261, 28-43=-343/299, 16-19=-257/258

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Continued on page 2

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NOTES-

9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Ceiling dead load (10.0 psf) on member(s). 31-33, 33-40, 39-40, 32-39; Wall dead load (5.0psf) on member(s).27-31, 25-32
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 17, 29 except (jt=lb) 30=188, 21=110, 24=556, 28=288, 22=114, 20=122, 19=270.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A2	ATTIC	2	1	I52195383
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:28 2022 Page 1
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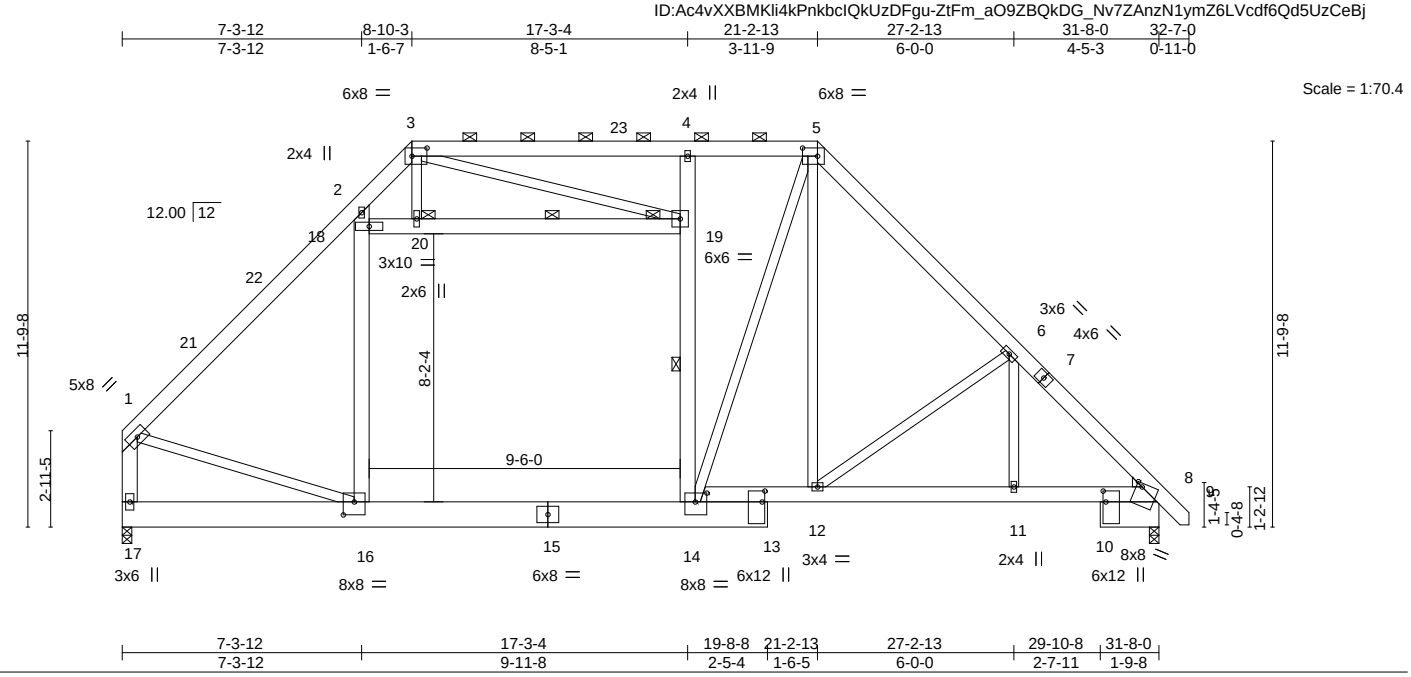

Plate Offsets (X,Y)-- [3:0-5-8,0-3-0], [5:0-5-8,0-3-0], [8:0-2-0,0-1-5], [10:0-4-0,0-1-0], [13:0-4-0,0-1-0], [14:0-4-4,0-3-4], [16:0-4-0,0-4-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.11	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.22	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	14	>999	240	Weight: 361 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
8-14: 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-16,4-14,18-19,1-17: 2x6 SP No.1
WEDGE
Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17.
WEBS 1 Row at midpt 14-19, 19-20
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (size) 17=0-3-8, 8=0-3-8
Max Horz 17=-262(LC 8)
Max Grav 17=1825(LC 2), 8=1586(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1967/57, 2-3=-1092/133, 3-4=-1449/225, 4-5=-1379/233, 5-6=-1808/221, 6-8=-2092/167, 1-17=-1913/54
BOT CHORD 16-17=-247/314, 14-16=0/1422, 12-14=0/1225, 11-12=-17/1435, 8-11=-18/1434
WEBS 16-18=0/578, 2-18=0/442, 14-19=-394/183, 4-19=-386/233, 18-20=-608/162, 19-20=-590/166, 1-16=0/1372, 3-19=-153/708, 3-20=0/314, 5-14=-94/638, 5-12=-93/659, 6-12=-503/265

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-10-3, Exterior(2) 8-10-3 to 15-0-13, Interior(1) 15-0-13 to 21-2-13, Exterior(2) 21-2-13 to 27-3-0, Interior(1) 27-3-0 to 32-5-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (10.0 psf) on member(s). 18-20, 19-20; Wall dead load (5.0psf) on member(s).16-18, 14-19
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

May 27,2022

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Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A2A	ATTIC	2	2	I52195384
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:29 2022 Page 1
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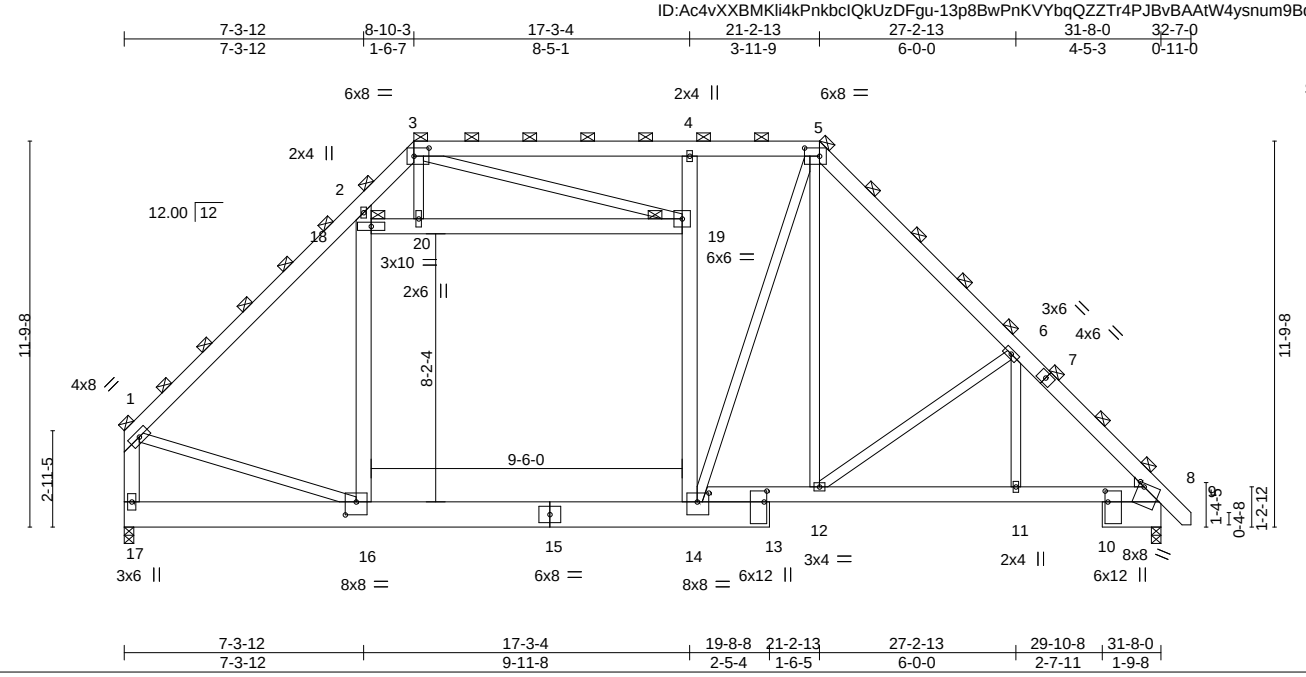


Plate Offsets (X,Y)-- [3:0-5-8,0-3-0], [5:0-5-8,0-3-0], [8:0-2-0,0-1-5], [10:0-4-0,0-1-0], [13:0-4-0,0-1-0], [14:0-4-4,0-3-4], [16:0-4-0,0-4-12]

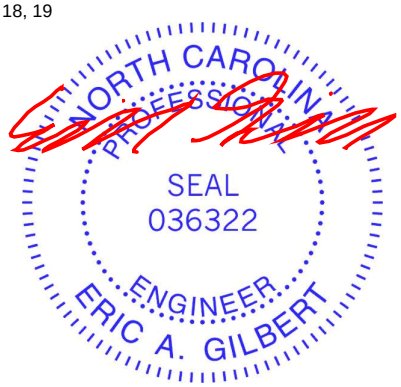
LOADING (psf)		SPACING- 4-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.11	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	14	>999	240	Weight: 722 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
8-14: 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-16,4-14,18-19,1-17: 2x6 SP No.1
WEDGE
Right: 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, Except:
6-0-0 oc bracing: 16-17.
JOINTS 1 Brace at Jt(s): 1, 3, 5, 18, 19

REACTIONS. (size) 17=0-3-8, 8=0-3-8
Max Horz 17=-525(LC 4)
Max Grav 17=3650(LC 2), 8=3171(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3933/0, 2-3=-2183/0, 3-4=-2898/0, 4-5=-2758/0, 5-6=-3617/0, 6-8=-4184/0, 1-17=-3826/0
BOT CHORD 16-17=-494/629, 14-16=0/2844, 12-14=0/2449, 11-12=0/2870, 8-11=0/2869
WEBS 16-18=0/1157, 2-18=0/883, 14-19=-787/366, 4-19=-772/393, 18-20=-1217/49, 19-20=-1181/60, 1-16=0/2745, 3-19=-39/1416, 3-20=0/627, 5-14=-189/1275, 5-12=-186/1319, 6-12=-788/379, 6-11=0/458



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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph 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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (10.0 psf) on member(s). 18-20, 19-20; Wall dead load (5.0psf) on member(s).16-18, 14-19
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

May 27,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A2B	ATTIC	1	2	I52195385
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:30 2022 Page 1
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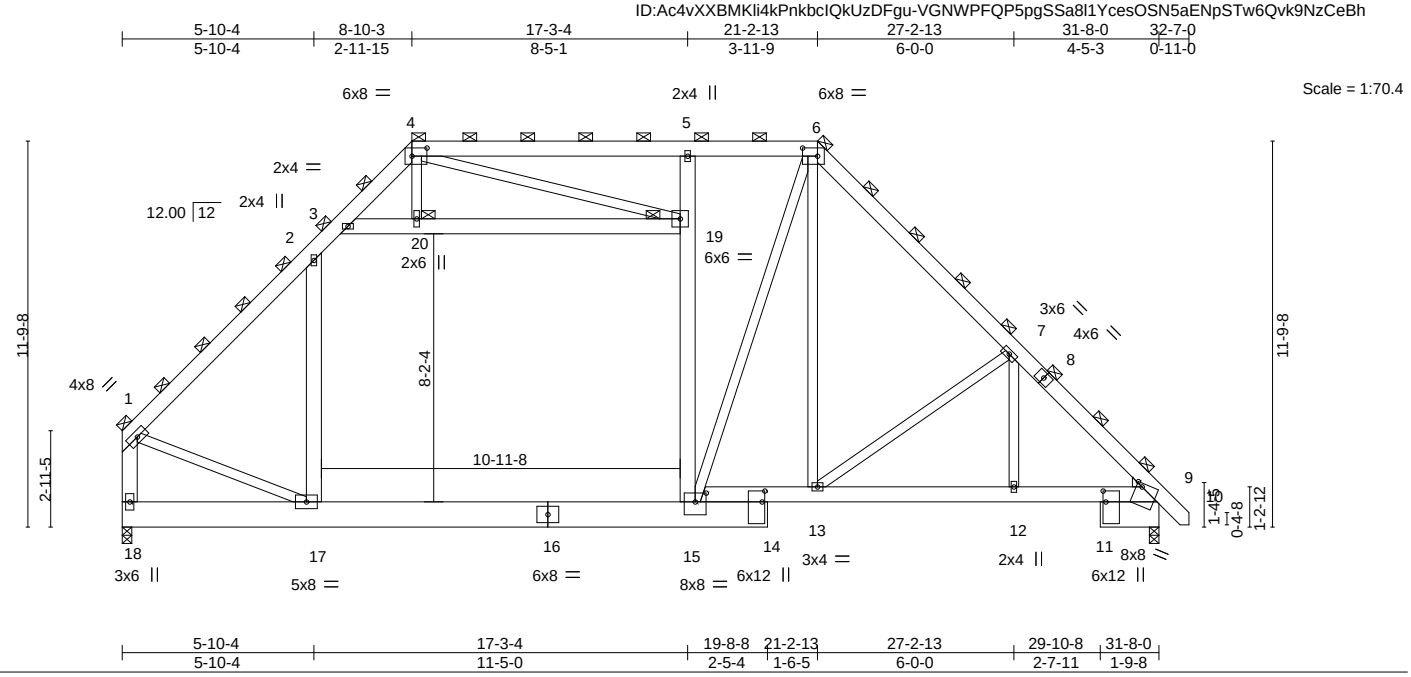


Plate Offsets (X,Y)-- [4:0-5-8,0-3-0], [6:0-5-8,0-3-0], [9:0-2-0,0-1-5], [11:0-4-0,0-1-0], [14:0-4-0,0-1-0], [15:0-4-0,0-3-4]

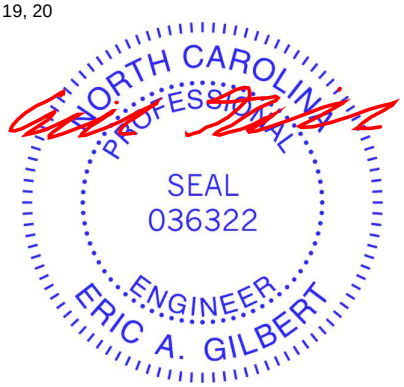
LOADING (psf)		SPACING- 3-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.10	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.18	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.08	15	>999	240	Weight: 715 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
9-15: 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-17,5-15,3-19,1-18: 2x6 SP No.1
WEDGE
Right: 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, Except:
6-0-0 oc bracing: 17-18.
JOINTS 1 Brace at Jt(s): 1, 4, 6, 19, 20

REACTIONS. (size) 18=0-3-8, 9=0-3-8
Max Horz 18=-393(LC 4)
Max Grav 18=2910(LC 2), 9=2414(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3135/0, 2-3=-2328/0, 3-4=-1458/0, 4-5=-2252/0, 5-6=-2139/0, 6-7=-2762/0, 7-9=-3191/0, 1-18=-3237/0
BOT CHORD 17-18=-374/441, 15-17=0/2227, 13-15=0/1870, 12-13=0/2189, 9-12=0/2189
WEBS 2-17=-5/790, 15-19=-574/309, 5-19=-592/299, 3-20=-1250/0, 19-20=-1231/0, 1-17=0/2278, 4-19=0/1423, 4-20=0/303, 6-15=-117/1069, 6-13=-160/980, 7-13=-594/283, 7-12=0/344



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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph 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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (10.0 psf) on member(s). 2-3, 3-20, 19-20; Wall dead load (5.0psf) on member(s).2-17, 15-19
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

May 27,2022

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Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A3	ATTIC	1	1	I52195386
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:32 2022 Page 1
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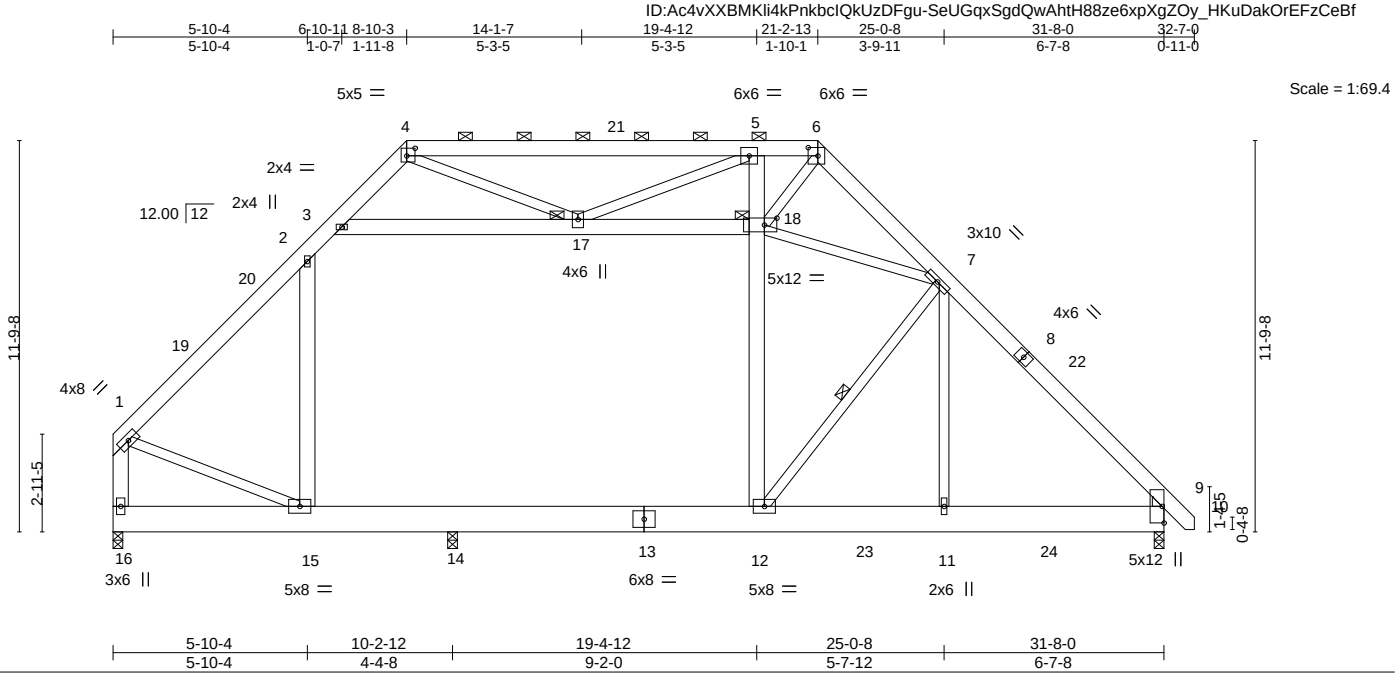

Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-3-8,0-3-0], [18:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.08	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.14	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 358 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
2-15,5-12,3-18,1-16: 2x6 SP No.1
WEDGE
Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-14 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-12
JOINTS 1 Brace at Jt(s): 17, 18

REACTIONS. (size) 16=0-3-8, 9=0-3-8, 14=0-3-8
Max Horz 16=-266(LC 8)
Max Grav 16=1445(LC 2), 9=1658(LC 2), 14=1035(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1386/132, 2-3=-1276/251, 3-4=-1062/203, 4-5=-1715/67, 5-6=-2326/181, 6-7=-1889/81, 7-9=-1905/195, 1-16=-1425/123
BOT CHORD 15-16=-235/288, 14-15=0/967, 12-14=0/967, 11-12=0/1201, 9-11=0/1201
WEBS 2-15=-286/81, 12-18=-14/1054, 5-18=-571/371, 3-17=-449/163, 17-18=-266/1504, 1-15=0/961, 4-17=0/1078, 5-17=-704/163, 7-12=-638/228, 7-11=-0/329, 7-18=-198/457, 6-18=-178/1682

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-10-3, Exterior(2) 8-10-3 to 15-0-13, Interior(1) 15-0-13 to 21-2-13, Exterior(2) 21-2-13 to 27-5-8, Interior(1) 27-5-8 to 32-5-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (10.0 psf) on member(s). 2-3, 3-17, 17-18; Wall dead load (5.0psf) on member(s).2-15, 12-18
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15, 12-14
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A4	ATTIC	4	1	I52195387
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:33 2022 Page 1
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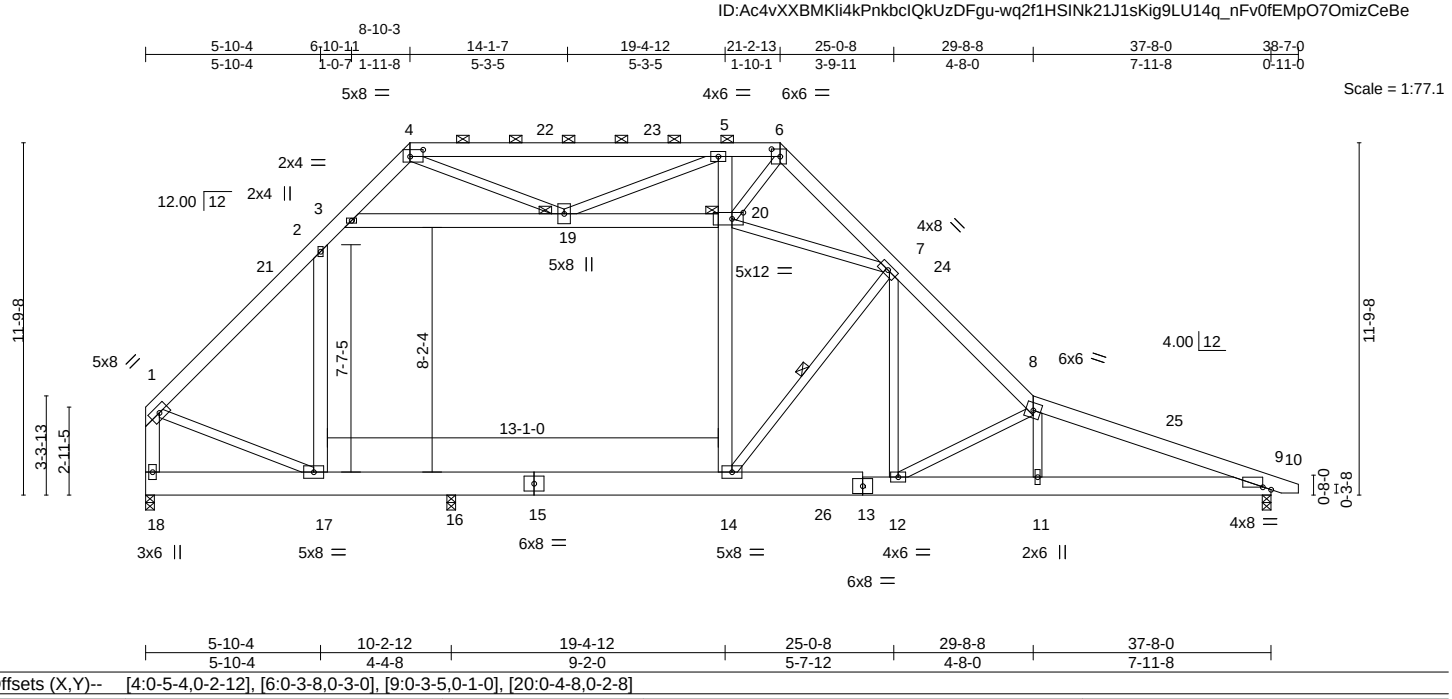

5-10-4	10-2-12	19-4-12	25-0-8	29-8-8	37-8-0
5-10-4	4-4-8	9-2-0	5-7-12	4-8-0	7-11-8

Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [6:0-3-8,0-3-0], [9:0-3-5,0-1-0], [20:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.18	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.37	12-14	>882	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.11	12-14	>999	240	Weight: 393 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
9-13: 2x8 SP No.1
WEBS 2x4 SP No.2 *Except*
2-17,5-14,3-20,1-18: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-10 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-14
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (size) 18=0-3-8, 9=0-3-8, 16=0-3-8
Max Horz 18=-271(LC 8)
Max Grav 18=1467(LC 2), 9=1595(LC 2), 16=1276(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1391/119, 2-3=-1435/251, 3-4=-1353/213, 4-5=-2347/102, 5-6=-3369/240, 6-7=-2756/101, 7-8=-2752/288, 8-9=-3856/356, 1-18=-1426/110
BOT CHORD 17-18=-144/292, 16-17=0/990, 14-16=0/990, 12-14=0/1911, 11-12=-248/3564, 9-11=-245/3568
WEBS 2-17=-474/93, 14-20=0/1671, 5-20=-394/365, 8-12=-1920/307, 3-19=-300/144, 19-20=-182/2555, 1-17=0/979, 4-19=0/1538, 5-19=-1170/156, 7-12=-128/1271, 7-20=-127/1041, 6-20=-179/2423, 7-14=-1666/240

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-10-3, Exterior(2) 8-10-3 to 13-2-15, Interior(1) 13-2-15 to 21-2-13, Exterior(2) 21-2-13 to 25-7-10, Interior(1) 25-7-10 to 38-3-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (10.0 psf) on member(s). 2-3, 3-19, 19-20; Wall dead load (5.0psf) on member(s).2-17, 14-20
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-17, 14-16
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A4-GR	ATTIC	1	2	I52195388
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:35 2022 Page 1
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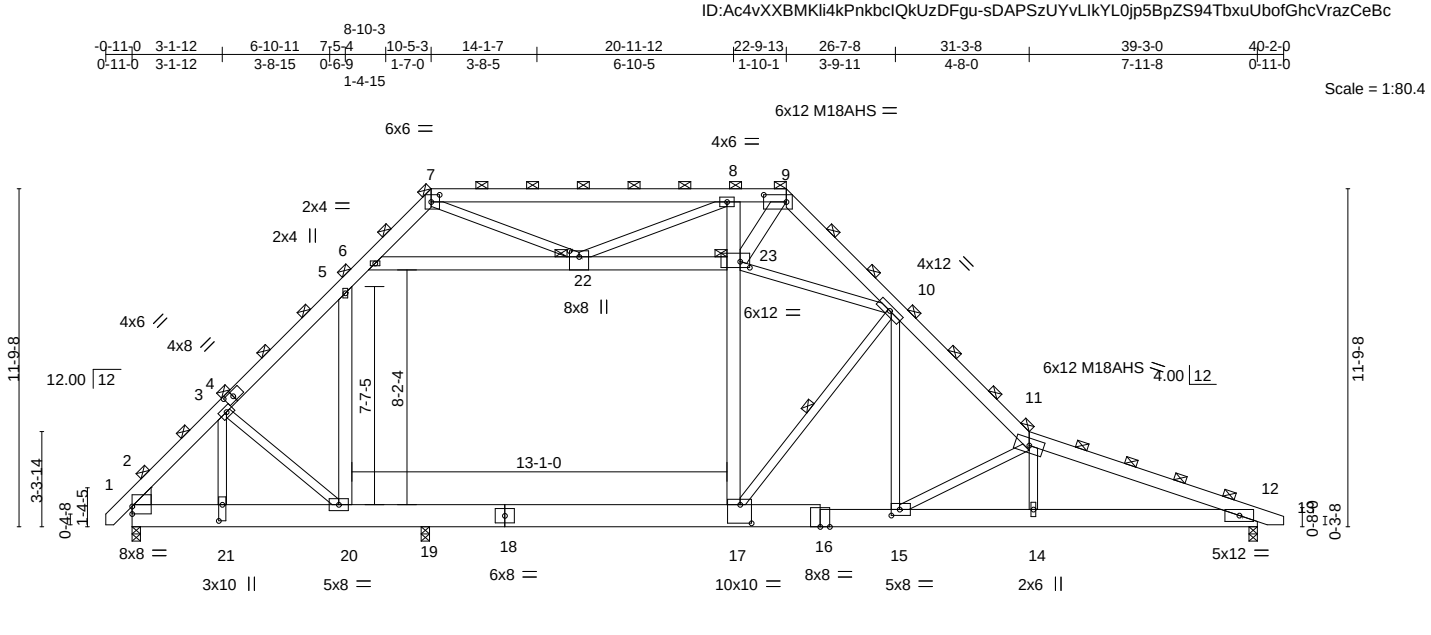


Plate Offsets (X,Y)-- [2:0-0-0,0-3-2], [4:0-3-11,0-2-0], [7:0-3-8,0-3-0], [9:0-9-8,0-3-0], [15:0-3-8,0-2-8], [17:0-4-12,0-7-12], [21:0-6-12,0-1-8], [22:0-2-8,0-4-0], [23:0-4-0,0-2-8]

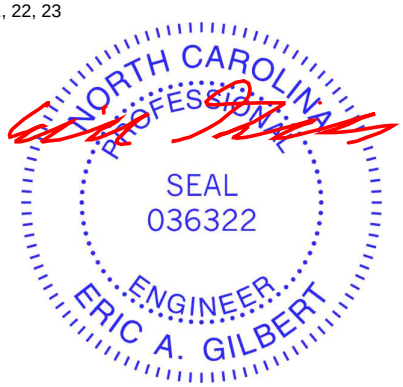
LOADING (psf)		SPACING- 5-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.36	15-17	>958	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.64	15-17	>540	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.18	15-17	>999	240	Weight: 819 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
7-9: 2x6 SP 2400F 2.0E
BOT CHORD 2x10 SP 2400F 2.0E *Except*
12-16: 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
5-20,8-17,6-23,9-23: 2x6 SP No.1
WEDGE
Left: 2x8 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-7 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-17
JOINTS 1 Brace at Jt(s): 7, 9, 11, 22, 23

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 19=0-3-8
Max Horz 2=-685(LC 6)
Max Grav 2=8020(LC 2), 12=5863(LC 2), 19=4310(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8490/0, 3-5=-7111/0, 5-6=-6018/0, 6-7=-4441/409, 7-8=-8397/332, 8-9=-13005/847, 9-10=-10736/532, 10-11=-11280/0, 11-12=-14983/0
BOT CHORD 2-21=0/5566, 20-21=0/5574, 19-20=0/4981, 17-19=0/4981, 15-17=0/7996, 14-15=0/13950, 12-14=0/13950
WEBS 5-20=-12/894, 17-23=-276/8027, 8-23=-327/1708, 11-15=-6953/150, 11-14=-34/486, 6-22=-2151/0, 22-23=-1140/8362, 7-22=0/6157, 8-22=-5254/584, 10-15=0/4471, 10-23=-737/2668, 9-23=-666/9182, 10-17=-5324/623, 3-21=0/1722, 3-20=-1033/195



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: 2x10 - 2 rows staggered at 0-3-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph 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
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-22, 22-23; Wall dead load (5.0psf) on member(s).5-20, 17-23
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Continued on page 2

ENGINEERING BY TRENCO A MiTek Affiliate
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Edenton, NC 27932

NOTES-

12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2992 lb down and 182 lb up at 20-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-150, 5-6=-200, 6-7=-150, 7-9=-150, 9-11=-150, 11-13=-150, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
   Drag: 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=-1698(F)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-125, 5-6=-175, 6-7=-125, 7-9=-125, 9-11=-125, 11-13=-125, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
   Drag: 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=-2759(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-50, 9-11=-50, 11-13=-50, 2-20=-360(F=-260), 17-20=-100, 16-17=-100, 12-16=-100, 6-23=-50
   Drag: 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=-1274(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-5=-33, 5-6=-63, 6-7=-33, 7-9=51, 9-11=27, 11-12=31, 12-13=14, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
   Horz: 1-2=-36, 2-7=3, 8-9=81, 9-11=57, 11-12=61, 12-13=44
   Drag: 7-8=-0, 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=182(F)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-5=27, 5-6=-3, 6-7=27, 7-9=51, 9-11=-33, 11-12=51, 12-13=90, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
   Horz: 1-2=-40, 2-7=-57, 8-9=81, 9-11=-3, 11-12=81, 12-13=120
   Drag: 7-8=-0, 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=182(F)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-70, 2-5=-87, 5-6=-137, 6-7=-87, 7-9=-2, 9-11=-27, 11-12=-23, 12-13=-6, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
   Horz: 1-2=20, 2-7=37, 8-9=48, 9-11=23, 11-12=27, 12-13=44
   Drag: 7-8=-0, 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=-1159(F)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-10, 2-5=-27, 5-6=-77, 6-7=-27, 7-9=-2, 9-11=-87, 11-12=-2, 12-13=15, 2-20=-310(F=-260), 17-20=-100, 12-17=-50
   , 6-23=-50
   Horz: 1-2=-40, 2-7=-23, 8-9=48, 9-11=-37, 11-12=48, 12-13=65
   Drag: 7-8=-0, 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=-1159(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-11=22, 11-12=22, 12-13=5, 2-20=-290(F=-260), 17-20=-60, 12-17=-30,
   6-23=-30
   Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-11=52, 11-12=52, 12-13=35
   Drag: 7-8=-0, 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=182(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-11=51, 11-12=51, 12-13=35, 2-20=-290(F=-260), 17-20=-60, 12-17=-30,
   6-23=-30
   Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-11=81, 11-12=81, 12-13=65
   Drag: 7-8=-0, 5-20=-25, 17-23=-25
   Concentrated Loads (lb)
   Vert: 17=182(F)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-11=22, 11-12=22, 12-13=5, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-11=52, 11-12=52, 12-13=35
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-11=51, 11-12=51, 12-13=35, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-11=81, 11-12=81, 12-13=65
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=-2, 5-6=-52, 6-7=-2, 7-9=-32, 9-11=-32, 11-12=-32, 12-13=-15, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Horz: 1-2=-65, 2-7=-48, 8-9=18, 9-11=18, 11-12=18, 12-13=35
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-992(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-32, 5-6=-82, 6-7=-32, 7-9=-32, 9-11=-2, 11-12=-2, 12-13=15, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Horz: 1-2=-35, 2-7=-18, 8-9=18, 9-11=48, 11-12=48, 12-13=65
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-992(F)

14) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-50, 9-11=-50, 11-13=-50, 2-20=-600(F=-550), 17-20=-300, 16-17=-50, 15-16=-200, 12-15=-50, 6-23=-50
Drag: 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2547(F)

15) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-50, 9-11=-50, 11-13=-50, 2-20=-600(F=-550), 17-20=-300, 16-17=-50, 15-16=-200, 12-15=-50, 6-23=-50
Drag: 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2547(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-140, 2-5=-152, 5-6=-202, 6-7=-152, 7-9=-89, 9-11=-107, 11-12=-105, 12-13=-92, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=15, 2-7=27, 8-9=36, 9-11=18, 11-12=20, 12-13=33
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2992(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-95, 2-5=-107, 5-6=-157, 6-7=-107, 7-9=-89, 9-11=-152, 11-12=-89, 12-13=-77, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=-30, 2-7=-18, 8-9=36, 9-11=-27, 11-12=36, 12-13=48
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2992(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-5=-89, 5-6=-139, 6-7=-89, 7-9=-112, 9-11=-112, 11-12=-112, 12-13=-99, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=-48, 2-7=-36, 8-9=13, 9-11=13, 11-12=13, 12-13=26
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2867(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-5=-112, 5-6=-162, 6-7=-112, 7-9=-112, 9-11=-89, 11-12=-89, 12-13=-77, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=-26, 2-7=-13, 8-9=13, 9-11=36, 11-12=36, 12-13=48
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2867(F)

20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 1-5=-150, 5-6=-200, 6-7=-150, 7-9=-150, 9-11=-50, 11-13=-50, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Drag: 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-1698(F)

21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-150, 9-11=-150, 11-13=-150, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Drag: 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-1698(F)

22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-125, 5-6=-175, 6-7=-125, 7-9=-125, 9-11=-50, 11-13=-50, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Drag: 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2759(F)

23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-125, 9-11=-125, 11-13=-125, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Drag: 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2759(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-5=-33, 5-6=-63, 6-7=-33, 7-9=51, 9-11=27, 11-12=31, 12-13=14, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-36, 2-7=3, 8-9=81, 9-11=57, 11-12=61, 12-13=44
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-5=27, 5-6=-3, 6-7=27, 7-9=51, 9-11=-33, 11-12=51, 12-13=90, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-40, 2-7=-57, 8-9=81, 9-11=-3, 11-12=81, 12-13=120
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-70, 2-5=-87, 5-6=-137, 6-7=-87, 7-9=-2, 9-11=-27, 11-12=-23, 12-13=-6, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Horz: 1-2=20, 2-7=37, 8-9=48, 9-11=23, 11-12=27, 12-13=44
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-1159(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-5=-27, 5-6=-77, 6-7=-27, 7-9=-2, 9-11=-87, 11-12=-2, 12-13=15, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Horz: 1-2=-40, 2-7=-23, 8-9=48, 9-11=-37, 11-12=48, 12-13=65
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-1159(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-11=22, 11-12=22, 12-13=5, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-11=52, 11-12=52, 12-13=35
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-11=51, 11-12=51, 12-13=35, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-11=81, 11-12=81, 12-13=65
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-11=22, 11-12=22, 12-13=5, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-11=52, 11-12=52, 12-13=35
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-11=51, 11-12=51, 12-13=35, 2-20=-290(F=-260), 17-20=-60, 12-17=-30, 6-23=-30
Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-11=81, 11-12=81, 12-13=65
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=182(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=-2, 5-6=-52, 6-7=-2, 7-9=-32, 9-11=-32, 11-12=-32, 12-13=-15, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Horz: 1-2=-65, 2-7=-48, 8-9=18, 9-11=18, 11-12=18, 12-13=35
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-992(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-32, 5-6=-82, 6-7=-32, 7-9=-32, 9-11=-2, 11-12=-2, 12-13=15, 2-20=-310(F=-260), 17-20=-100, 12-17=-50, 6-23=-50
Horz: 1-2=-35, 2-7=-18, 8-9=18, 9-11=48, 11-12=48, 12-13=65
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-992(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-140, 2-5=-152, 5-6=-202, 6-7=-152, 7-9=-89, 9-11=-107, 11-12=-105, 12-13=-92, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=15, 2-7=27, 8-9=36, 9-11=18, 11-12=20, 12-13=33
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2992(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-95, 2-5=-107, 5-6=-157, 6-7=-107, 7-9=-89, 9-11=-152, 11-12=-89, 12-13=-77, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=-30, 2-7=-18, 8-9=36, 9-11=-27, 11-12=36, 12-13=48
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2992(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-5=-89, 5-6=-139, 6-7=-89, 7-9=-112, 9-11=-112, 11-12=-112, 12-13=-99, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=-48, 2-7=-36, 8-9=13, 9-11=13, 11-12=13, 12-13=26
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2867(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-5=-112, 5-6=-162, 6-7=-112, 7-9=-112, 9-11=-89, 11-12=-89, 12-13=-77, 2-20=-617(F=-567), 17-20=-250, 16-17=-50, 15-16=-163, 12-15=-50, 6-23=-50
Horz: 1-2=-26, 2-7=-13, 8-9=13, 9-11=36, 11-12=36, 12-13=48
Drag: 7-8=-0, 5-20=-25, 17-23=-25
Concentrated Loads (lb)
Vert: 17=-2867(F)

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A5	ATTIC	4	1	I52195389
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:36 2022 Page 1
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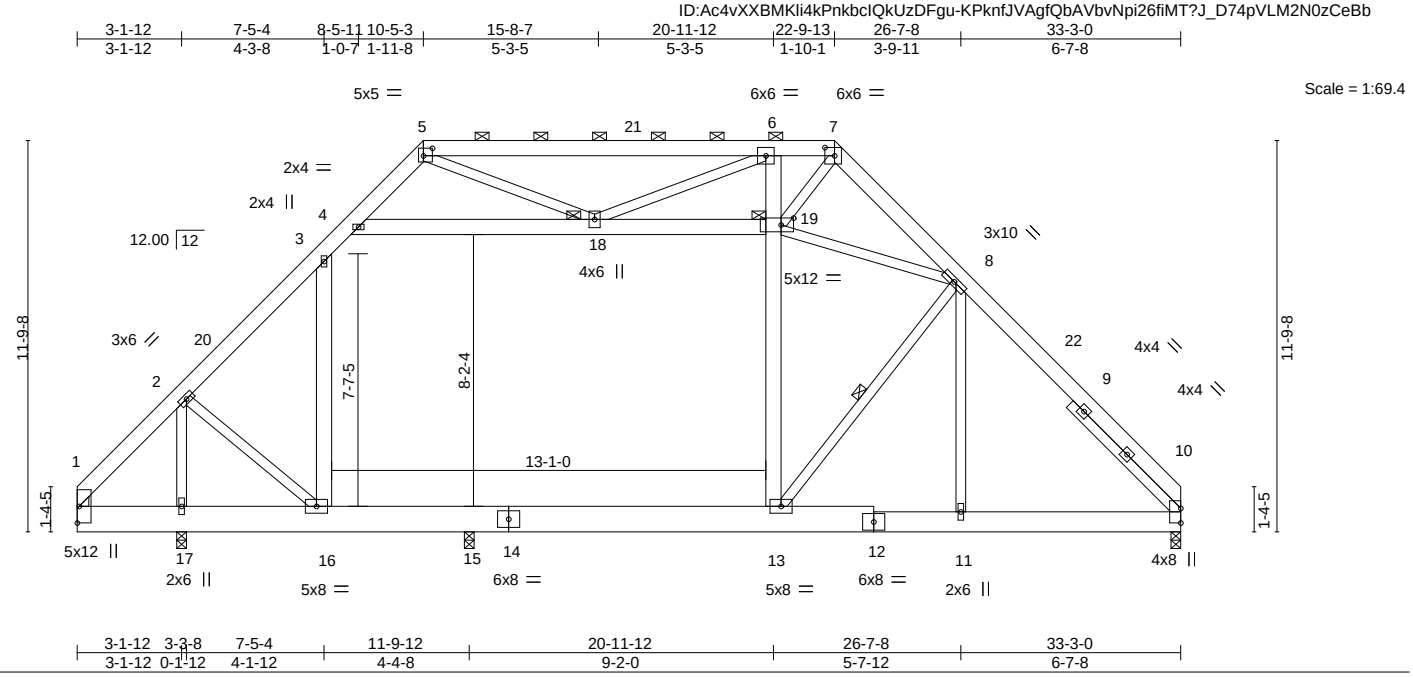

Plate Offsets (X,Y)-- [5:0-3-4,0-2-12], [7:0-3-8,0-3-0], [19:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.08	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.16	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.05	13	>999	240	Weight: 365 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
10-12: 2x8 SP No.1
WEBS 2x4 SP No.2 *Except*
3-16,6-13,4-19: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 4-7-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-2 oc purlins, except 2-0-0 oc purlins (4-6-11 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-13
JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS. (size) 10=0-3-8, 15=0-3-8, 17=0-3-8
Max Horz 17=-269(LC 8)
Max Grav 10=1434(LC 2), 15=1036(LC 18), 17=1644(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1050/151, 3-4=-1162/237, 4-5=-1151/248, 5-6=-1851/137, 6-7=-2527/260, 7-8=-2082/107, 8-10=-1730/187
BOT CHORD 16-17=-267/286, 15-16=-23/776, 13-15=-23/776, 11-13=0/1088, 10-11=0/1086
WEBS 3-16=-505/36, 13-19=-1/1151, 6-19=-500/363, 18-19=-192/1889, 5-18=0/1170, 6-18=-796/145, 8-11=0/276, 8-19=-102/800, 7-19=-233/1823, 8-13=-782/230, 2-16=0/985, 2-17=-1514/252

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-5-3, Exterior(2) 10-5-3 to 16-7-13, Interior(1) 16-7-13 to 22-9-13, Exterior(2) 22-9-13 to 29-0-8, Interior(1) 29-0-8 to 33-3-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-18, 18-19; Wall dead load (5.0psf) on member(s).3-16, 13-19
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16, 13-15
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A5-GR	ATTIC	1	2	I52195390
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:38 2022 Page 1
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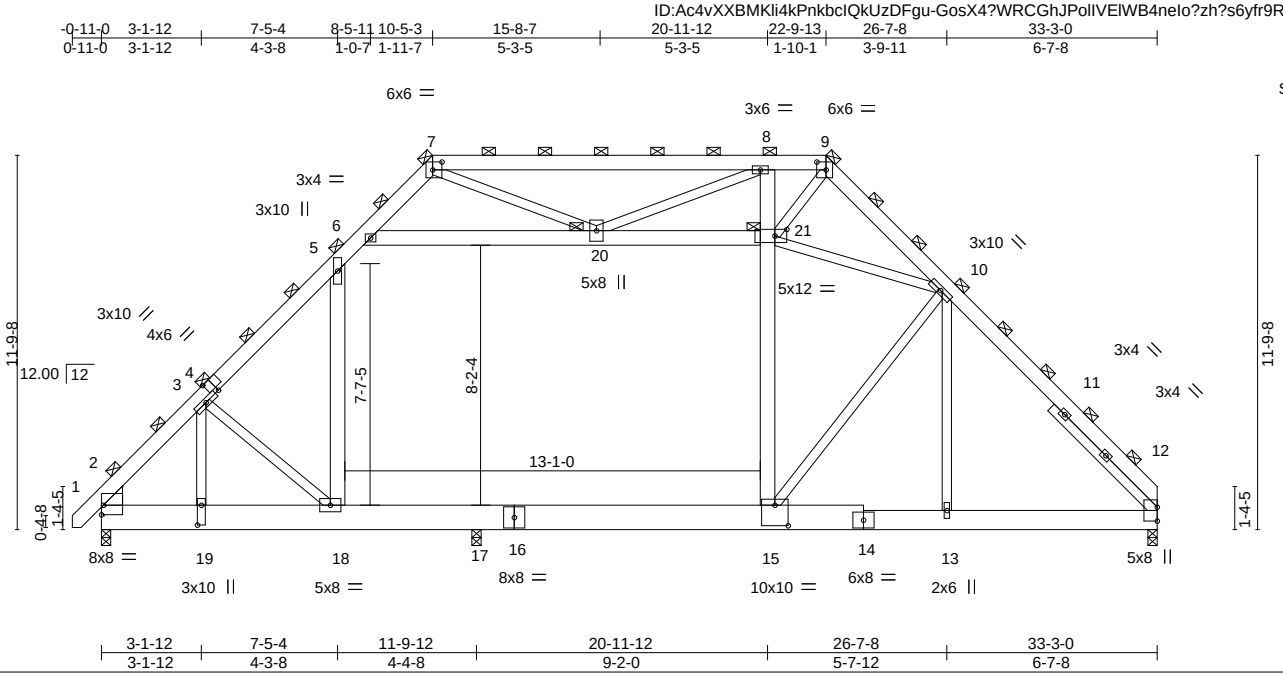

Plate Offsets (X,Y)-- [2:Edge,0-3-10], [4:0-3-0,Edge], [7:0-3-8,0-3-0], [9:0-3-8,0-3-0], [15:0-5-0,0-7-12], [19:0-7-8,0-1-8], [21:0-4-8,0-2-8]

LOADING (psf)		SPACING- 5-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.12	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.18	15	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	15	>999	240	Weight: 739 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E *Except*
12-14: 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
5-18,8-15,6-21: 2x6 SP No.1
WEDGE
Left: 2x8 SP No.1
SLIDER Right 2x4 SP No.2 4-7-14

BRACING-
TOP CHORD 2-0-0 oc purlins (5-0-0 max.)
(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): 7, 9, 20, 21

REACTIONS. (size) 12=0-3-8, 17=0-3-8, 2=0-3-8 (req. 0-3-15)
Max Horz 2=675(LC 7)
Max Grav 12=6102(LC 17), 17=3444(LC 14), 2=9494(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-10077/0, 3-5=-7507/0, 5-6=-5283/0, 6-7=-2670/987, 7-8=-4582/1531, 8-9=-6756/2742, 9-10=-5607/2080, 10-12=-7595/0
BOT CHORD 2-19=0/6625, 18-19=0/6639, 17-18=0/5193, 15-17=0/5193, 13-15=0/4832, 12-13=0/4830
WEBS 5-18=0/2479, 15-21=-1239/4104, 8-21=-1234/537, 6-20=-3650/0, 20-21=-3795/1846, 7-20=-783/3377, 8-20=-2466/1384, 10-13=0/690, 10-21=-2568/0, 9-21=-2025/4678, 10-15=-176/1694, 3-19=0/3430, 3-18=-2249/0

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: 2x10 - 2 rows staggered at 0-3-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph 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
5) Provide adequate drainage to prevent water ponding.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-20, 20-21; Wall dead load (5.0psf) on member(s).5-18, 15-21
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
9) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

Continued on page 2

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

NOTES-

11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2992 lb down and 182 lb up at 20-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-150, 5-6=-200, 6-7=-150, 7-9=-150, 9-12=-150, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
   Drag: 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=-1698(F)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-125, 5-6=-175, 6-7=-125, 7-9=-125, 9-12=-125, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
   Drag: 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=-2759(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-50, 9-12=-50, 2-18=-760(F=-660), 15-18=-100, 14-15=-100, 12-14=-100, 6-21=-50
   Drag: 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=-1274(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-5=-33, 5-6=-63, 6-7=-33, 7-9=51, 9-12=27, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
   Horz: 1-2=-36, 2-7=3, 8-9=81, 9-12=57
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=182(F)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-5=27, 5-6=-3, 6-7=27, 7-9=51, 9-12=-33, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
   Horz: 1-2=-40, 2-7=-57, 8-9=81, 9-12=-3
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=182(F)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-70, 2-5=-87, 5-6=-137, 6-7=-87, 7-9=-2, 9-12=-27, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
   Horz: 1-2=20, 2-7=37, 8-9=48, 9-12=23
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=-1159(F)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-10, 2-5=-27, 5-6=-77, 6-7=-27, 7-9=-2, 9-12=-87, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
   Horz: 1-2=-40, 2-7=-23, 8-9=48, 9-12=-37
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=-1159(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-12=22, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
   Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-12=52
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=182(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-12=51, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
   Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-12=81
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=182(F)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-12=22, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
   Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-12=52
   Drag: 7-8=-0, 5-18=-25, 15-21=-25
   Concentrated Loads (lb)
   Vert: 15=182(F)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-12=51, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-12=81
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=-2, 5-6=-52, 6-7=-2, 7-9=-32, 9-12=-32, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
Horz: 1-2=-65, 2-7=-48, 8-9=18, 9-12=18
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-992(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-32, 5-6=-82, 6-7=-32, 7-9=-32, 9-12=-2, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
Horz: 1-2=-35, 2-7=-18, 8-9=18, 9-12=48
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-992(F)

14) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-50, 9-12=-50, 2-18=-800(F=-750), 15-18=-300, 14-15=-50, 13-14=-200, 12-13=-50, 6-21=-50
Drag: 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2547(F)

15) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-50, 9-12=-50, 2-18=-800(F=-750), 15-18=-300, 14-15=-50, 13-14=-200, 12-13=-50, 6-21=-50
Drag: 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2547(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-140, 2-5=-152, 5-6=-202, 6-7=-152, 7-9=-89, 9-12=-107, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=15, 2-7=27, 8-9=36, 9-12=18
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2992(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-95, 2-5=-107, 5-6=-157, 6-7=-107, 7-9=-89, 9-12=-152, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=-30, 2-7=-18, 8-9=36, 9-12=-27
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2992(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-5=-89, 5-6=-139, 6-7=-89, 7-9=-112, 9-12=-112, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=-48, 2-7=-36, 8-9=13, 9-12=13
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2867(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-5=-112, 5-6=-162, 6-7=-112, 7-9=-112, 9-12=-89, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=-26, 2-7=-13, 8-9=13, 9-12=36
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2867(F)

20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-150, 5-6=-200, 6-7=-150, 7-9=-150, 9-12=-50, 2-18=-510(F=-460), 15-18=-100, 12-15=-50, 6-21=-50
Drag: 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-1698(F)

21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-150, 9-12=-150, 2-18=-510(F=-460), 15-18=-100, 12-15=-50, 6-21=-50
Drag: 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-1698(F)

Continued on page 4

LOAD CASE(S)

22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-125, 5-6=-175, 6-7=-125, 7-9=-125, 9-12=-50, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Drag: 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2759(F)

23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-100, 6-7=-50, 7-9=-125, 9-12=-125, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Drag: 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2759(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-5=-33, 5-6=-63, 6-7=-33, 7-9=51, 9-12=27, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-36, 2-7=3, 8-9=81, 9-12=57
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-5=27, 5-6=-3, 6-7=27, 7-9=51, 9-12=-33, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-40, 2-7=-57, 8-9=81, 9-12=-3
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-70, 2-5=-87, 5-6=-137, 6-7=-87, 7-9=-2, 9-12=-27, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
Horz: 1-2=20, 2-7=37, 8-9=48, 9-12=23
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-1159(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-5=-27, 5-6=-77, 6-7=-27, 7-9=-2, 9-12=-87, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
Horz: 1-2=-40, 2-7=-23, 8-9=48, 9-12=-37
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-1159(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-12=22, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-12=52
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-12=51, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-12=81
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-5=51, 5-6=21, 6-7=51, 7-9=22, 9-12=22, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-65, 2-7=-81, 8-9=52, 9-12=52
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=22, 5-6=-8, 6-7=22, 7-9=22, 9-12=51, 2-18=-690(F=-660), 15-18=-60, 12-15=-30, 6-21=-30
Horz: 1-2=-35, 2-7=-52, 8-9=52, 9-12=81
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=182(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=-2, 5-6=-52, 6-7=-2, 7-9=-32, 9-12=-32, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
Horz: 1-2=-65, 2-7=-48, 8-9=18, 9-12=18
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-992(F)

Continued on page 5

LOAD CASE(S)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-5=-32, 5-6=-82, 6-7=-32, 7-9=-32, 9-12=-2, 2-18=-710(F=-660), 15-18=-100, 12-15=-50, 6-21=-50
Horz: 1-2=-35, 2-7=-18, 8-9=18, 9-12=48
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-992(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-140, 2-5=-152, 5-6=-202, 6-7=-152, 7-9=-89, 9-12=-107, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=15, 2-7=27, 8-9=36, 9-12=18
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2992(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-95, 2-5=-107, 5-6=-157, 6-7=-107, 7-9=-89, 9-12=-152, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=-30, 2-7=-18, 8-9=36, 9-12=-27
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2992(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-5=-89, 5-6=-139, 6-7=-89, 7-9=-112, 9-12=-112, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=-48, 2-7=-36, 8-9=13, 9-12=13
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2867(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-5=-112, 5-6=-162, 6-7=-112, 7-9=-112, 9-12=-89, 2-18=-868(F=-818), 15-18=-250, 14-15=-50, 13-14=-163, 12-13=-50, 6-21=-50
Horz: 1-2=-26, 2-7=-13, 8-9=13, 9-12=36
Drag: 7-8=-0, 5-18=-25, 15-21=-25
Concentrated Loads (lb)
Vert: 15=-2867(F)

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A6	ATTIC	6	1	I52195391
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:40 2022 Page 1
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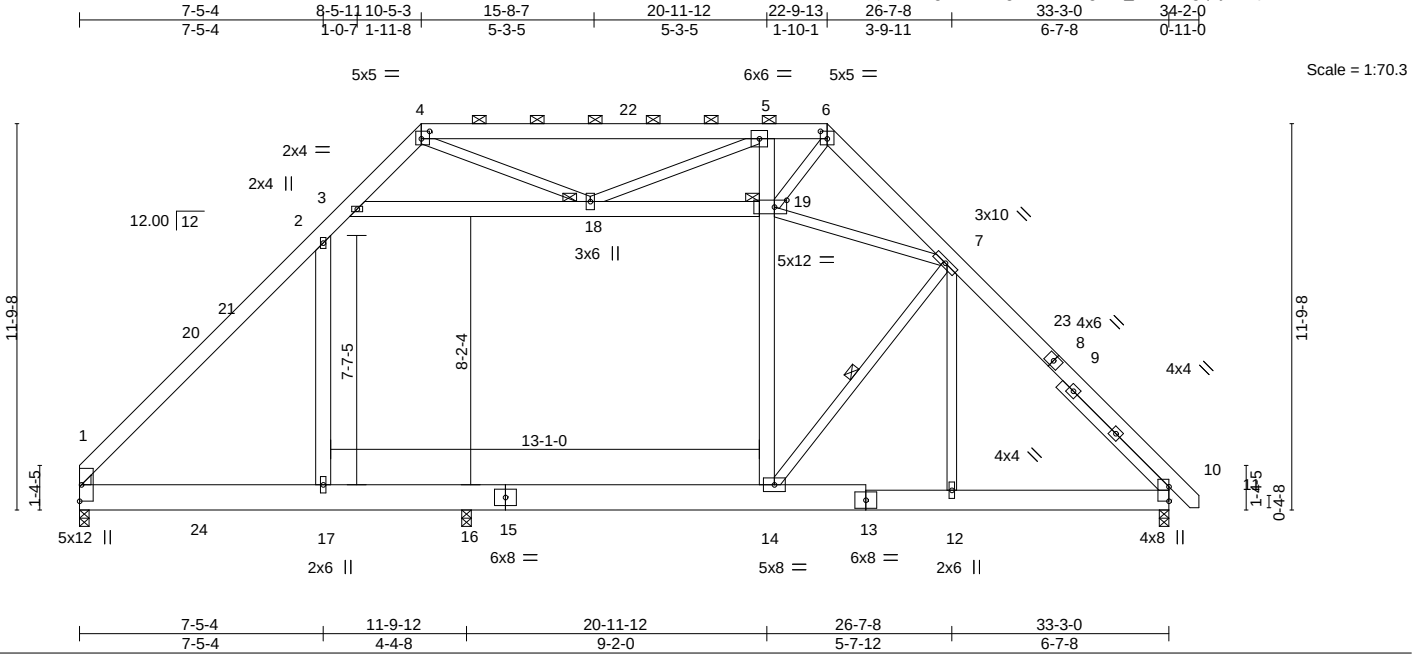

Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-2-8,0-2-12], [19:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.06	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.11	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.03	1-17	>999	240	Weight: 356 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
10-13: 2x8 SP No.1
WEBS 2x4 SP No.2 *Except*
2-17,5-14,3-19: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 4-7-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except
2-0-0 oc purlins (5-3-4 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-14
JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS. (size) 10=0-3-8, 16=0-3-8, 1=0-3-8
Max Horz 1=-269(LC 8)
Max Grav 10=1606(LC 2), 16=1121(LC 18), 1=1549(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1832/97, 2-3=-1368/258, 3-4=-901/155, 4-5=-1405/86, 5-6=-1855/246, 6-7=-1502/134, 7-10=-1910/183
BOT CHORD 1-17=0/1175, 16-17=0/1175, 14-16=0/1175, 12-14=0/1203, 10-12=0/1200
WEBS 2-17=-37/298, 14-19=-47/806, 5-19=-632/380, 3-18=-754/246, 18-19=-352/825, 4-18=0/888, 5-18=-513/183, 7-19=-498/358, 6-19=-223/1360, 7-14=-303/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-5-3, Exterior(2) 10-5-3 to 16-7-13, Interior(1) 16-7-13 to 22-9-13, Exterior(2) 22-9-13 to 29-0-8, Interior(1) 29-0-8 to 34-0-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (10.0 psf) on member(s). 2-3, 3-18, 18-19; Wall dead load (5.0psf) on member(s).2-17, 14-19
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-17, 14-16
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

May 27,2022

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	A6SG	GABLE	1	1	I52195392
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:44 2022 Page 1
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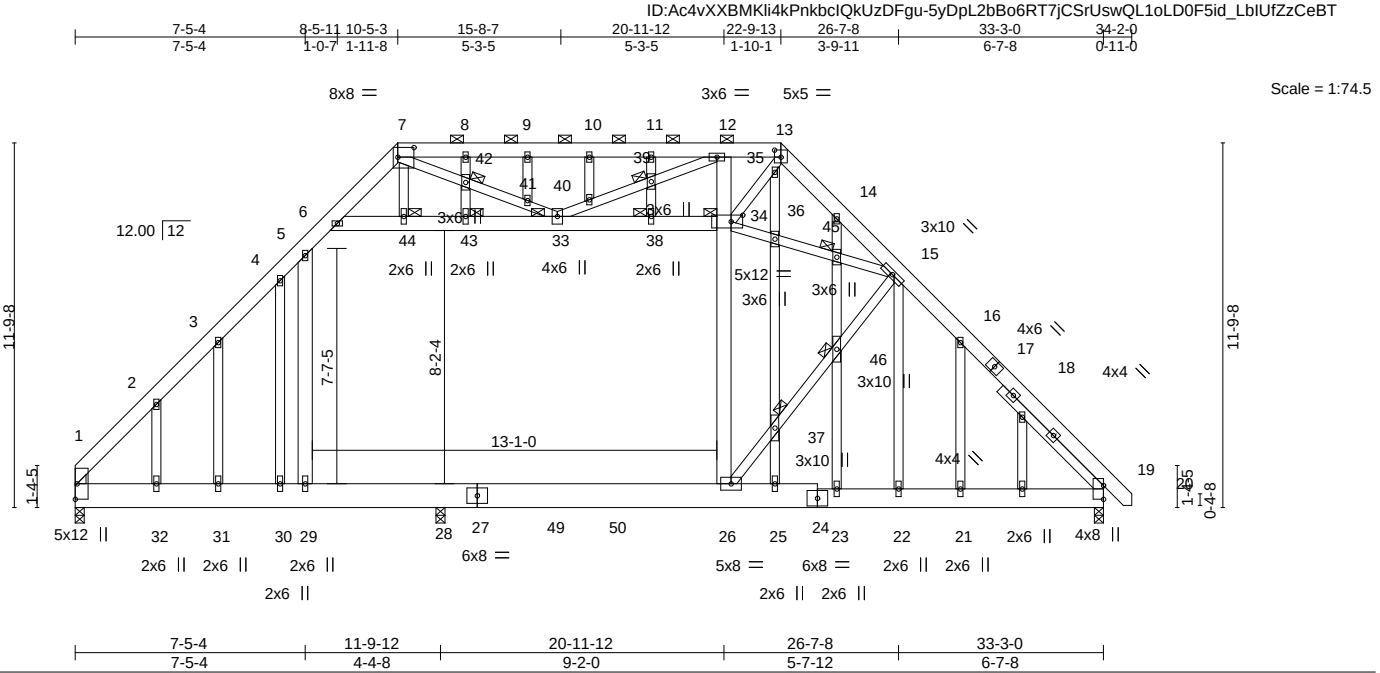

Plate Offsets (X,Y)-- [7:0-6-4,0-3-12], [13:0-2-8,0-2-12], [34:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.09	26-28	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.15	26-28	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.03	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	26-28	>999	240	Weight: 427 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
19-24: 2x8 SP No.1
WEBS 2x4 SP No.2 *Except*
5-29,12-26,6-34: 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 4-7-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-14 oc purlins, except
2-0-0 oc purlins (5-0-15 max.): 7-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 33, 34, 37, 38, 39, 42, 43, 44, 45, 46

REACTIONS. (size) 19=0-3-8, 28=0-3-8, 1=0-3-8
Max Horz 1=-339(LC 4)
Max Uplift 1=-10(LC 8)
Max Grav 19=1968(LC 2), 28=1115(LC 14), 1=1545(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1971/0, 2-3=-1733/0, 3-4=-1713/71, 4-5=-1673/129, 5-6=-1493/94, 6-7=-1226/250, 7-8=-1954/382, 8-9=-1954/382, 9-10=-1954/382, 10-11=-1954/382, 11-12=-1954/382, 12-13=-2430/380, 13-14=-2266/308, 14-15=-2307/236, 15-16=-2085/99, 16-19=-2372/0
BOT CHORD 1-32=-97/1232, 31-32=-96/1232, 30-31=-96/1232, 29-30=-96/1232, 28-29=-96/1232, 26-28=-96/1232, 25-26=0/1490, 23-25=0/1503, 22-23=0/1490, 21-22=0/1490, 19-21=0/1490
WEBS 26-34=-72/1052, 12-34=-254/382, 6-44=-563/351, 43-44=-561/351, 33-43=-561/351, 33-38=-460/1485, 34-38=-460/1484, 7-42=-218/1246, 41-42=-220/1213, 33-41=-202/1241, 33-40=-730/42, 39-40=-654/82, 12-39=-667/65, 15-22=-166/330, 34-36=-466/693, 36-45=-464/692, 15-45=-458/680, 34-35=-240/1340, 13-35=-231/1632, 35-36=-3/369, 36-37=-2/345, 25-37=-34/330, 7-44=-36/253, 2-32=-27/294, 16-21=-51/261, 26-37=-749/261, 37-46=-740/255, 15-46=-727/254

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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Continued on page 2

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NOTES-

9) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-44, 43-44, 33-43, 33-38, 34-38; Wall dead load (5.0psf) on member(s).5-29, 26-34, 25-37, 16-21
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 28-29, 26-28, 23-25, 22-23, 21-22
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 55 lb up at 15-5-4, and 66 lb down and 55 lb up at 17-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-6=-80, 6-7=-60, 7-13=-60, 13-20=-60, 1-29=-20, 26-29=-40, 25-26=-20, 24-25=-40, 21-24=-40, 19-21=-20, 6-34=-20
   Drag: 5-29=-10, 26-34=-10, 25-37=-10, 16-21=-10
   Concentrated Loads (lb)
   Vert: 49=-66 50=-66

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	B1	ATTIC	10	1	I52195393
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:45 2022 Page 1
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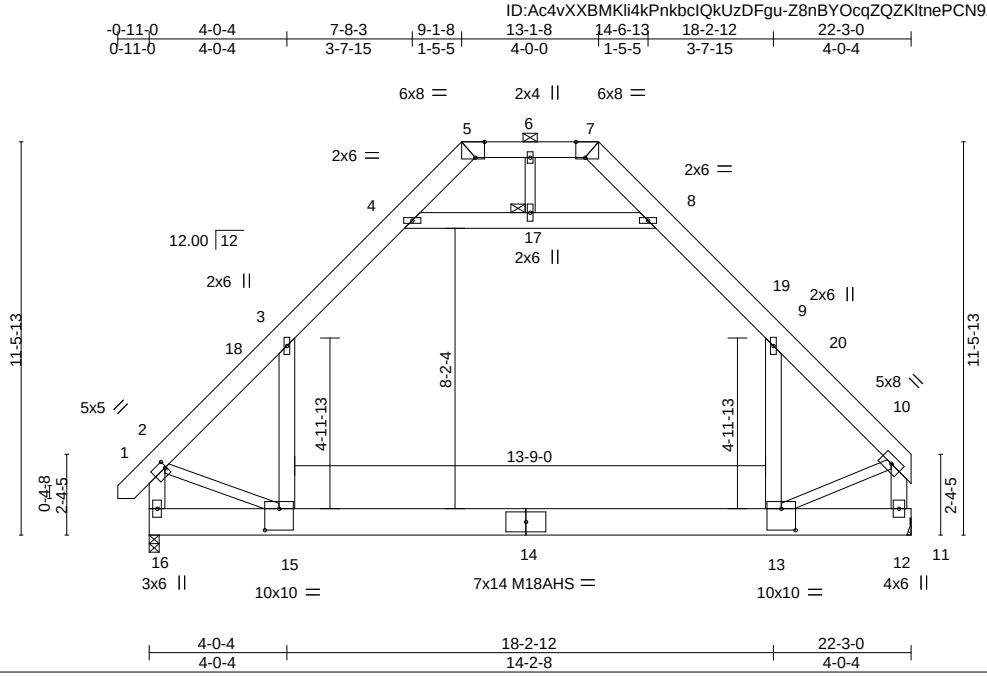

Plate Offsets (X,Y)-- [2:0-0-8,0-2-8], [5:0-3-4,Edge], [7:0-3-4,Edge], [13:0-5-0,0-7-8], [15:0-5-0,0-7-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.25	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.38	13-15	>676	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.05	13-15	>999	240	Weight: 242 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP 2400F 2.0E *Except* 5-7: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except* 6-17,2-15,10-13: 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.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-2-13 oc bracing: 13-15.
JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-3-8, 12=Mechanical
Max Horz 16=232(LC 9)
Max Grav 16=1566(LC 2), 12=1535(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1741/0, 3-4=-1049/171, 5-6=-15/403, 6-7=-15/403, 8-9=-1053/173, 9-10=-1728/0, 2-16=-1892/0, 10-12=-1906/0
BOT CHORD 15-16=-231/328, 13-15=0/1038
WEBS 3-15=0/901, 4-17=-1304/140, 8-17=-1304/140, 9-13=0/884, 2-15=0/1021, 10-13=0/1086

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 4-0-4, Interior(1) 4-0-4 to 9-3-14, Exterior(2) 9-3-14 to 19-1-13, Interior(1) 19-1-13 to 21-10-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s).3-15, 9-13
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
9) Refer to girder(s) for truss to truss connections.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

May 27,2022

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Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	B1GE	GABLE	1	1	I52195394
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:46 2022 Page 1
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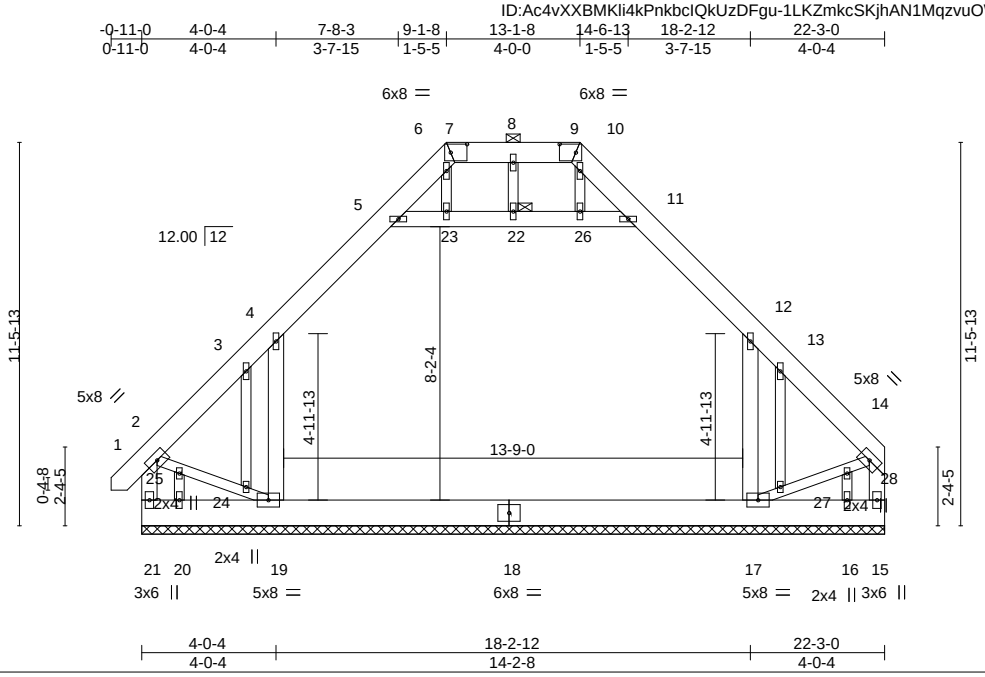

Plate Offsets (X,Y)-- [7:0-5-14,0-3-0], [9:0-5-14,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	0.00	2	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 262 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
8-22,2-19,14-17: 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.): 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 22

REACTIONS. All bearings 22-3-0.
(lb) - Max Horz 21=288(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 21, 15 except 19=-201(LC 12), 17=-191(LC 13), 20=-1086(LC 18), 16=-1085(LC 18)
Max Grav All reactions 250 lb or less at joint(s) except 21=1144(LC 21), 19=1376(LC 20), 17=1377(LC 21), 15=1090(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-616/133, 3-4=-466/139, 4-5=-672/193, 5-6=-396/95, 6-7=-283/101, 7-8=-275/95, 8-9=-275/95, 9-10=-283/101, 10-11=-397/98, 11-12=-672/194, 12-13=-459/128, 13-14=-610/124, 2-21=-684/97, 14-15=-620/94
BOT CHORD 20-21=-258/276, 19-20=-258/276, 17-19=-72/420
WEBS 4-19=-511/211, 5-23=-255/181, 22-23=-253/182, 22-26=-253/182, 11-26=-255/181, 12-17=-511/214, 2-25=-52/422, 24-25=-54/415, 19-24=-55/462, 17-27=-69/442, 27-28=-67/398, 14-28=-65/405

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x6 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Ceiling dead load (10.0 psf) on member(s). 4-5, 11-12, 5-23, 22-23, 22-26, 11-26; Wall dead load (5.0psf) on member(s).4-19, 12-17
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 15 except (jt=lb) 19=201, 17=191, 20=1086, 16=1085.

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Continued on page 2

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NOTES-

12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
15) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	C1	COMMON	4	1	I52195395
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:47 2022 Page 1
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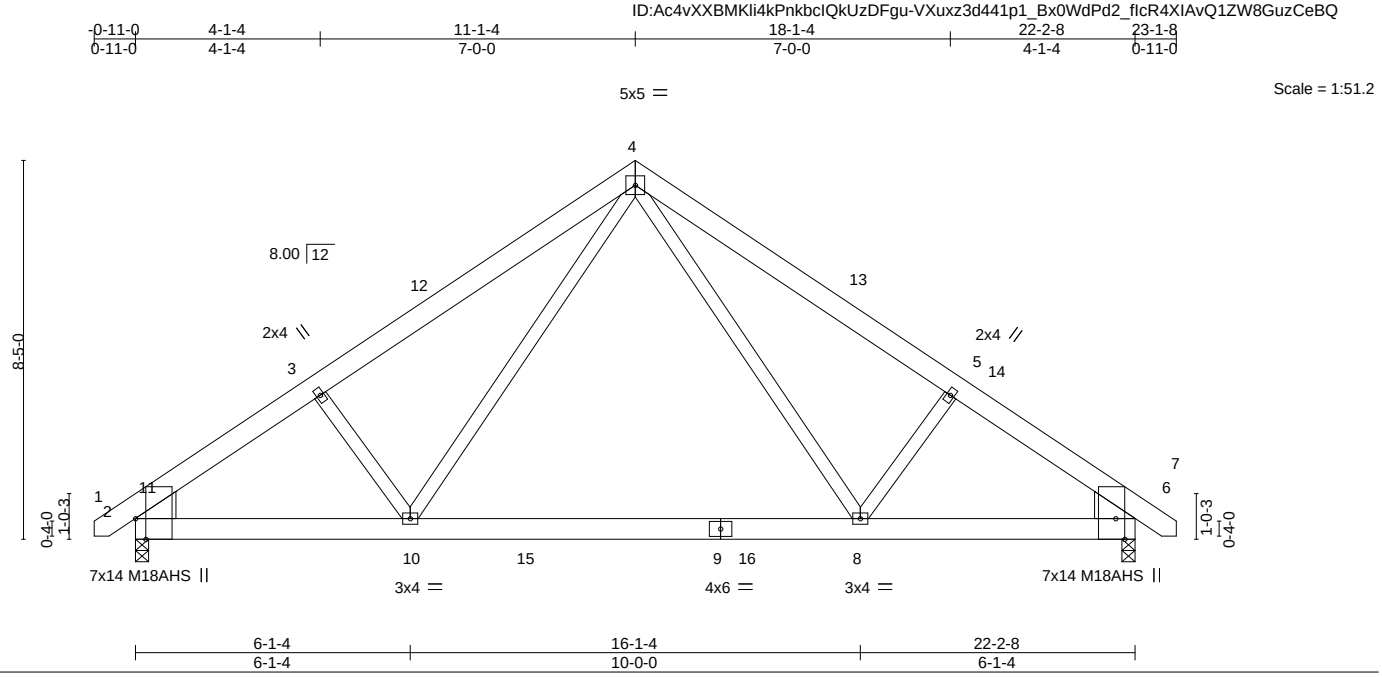

Plate Offsets (X,Y)-- [2:0-5-8,Edge], [6:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.14	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.21	8-10	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	8-10	>999	240	Weight: 163 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1 , Right: 2x8 SP No.1

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=0-3-8, 6=0-3-8
Max Horz 2=-190(LC 8)
Max Uplift 2=-56(LC 12), 6=-56(LC 13)
Max Grav 2=977(LC 19), 6=977(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1405/281, 3-4=-1287/335, 4-5=-1287/335, 5-6=-1405/281
BOT CHORD 2-10=-162/1198, 8-10=0/735, 6-8=-161/1057
WEBS 3-10=-301/226, 4-10=-91/618, 4-8=-91/619, 5-8=-301/226

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 11-1-4, Exterior(2) 11-1-4 to 15-6-1, Interior(1) 15-6-1 to 22-11-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	C1GE	COMMON SUPPORTED GAB	1	1	I52195396
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:48 2022 Page 1
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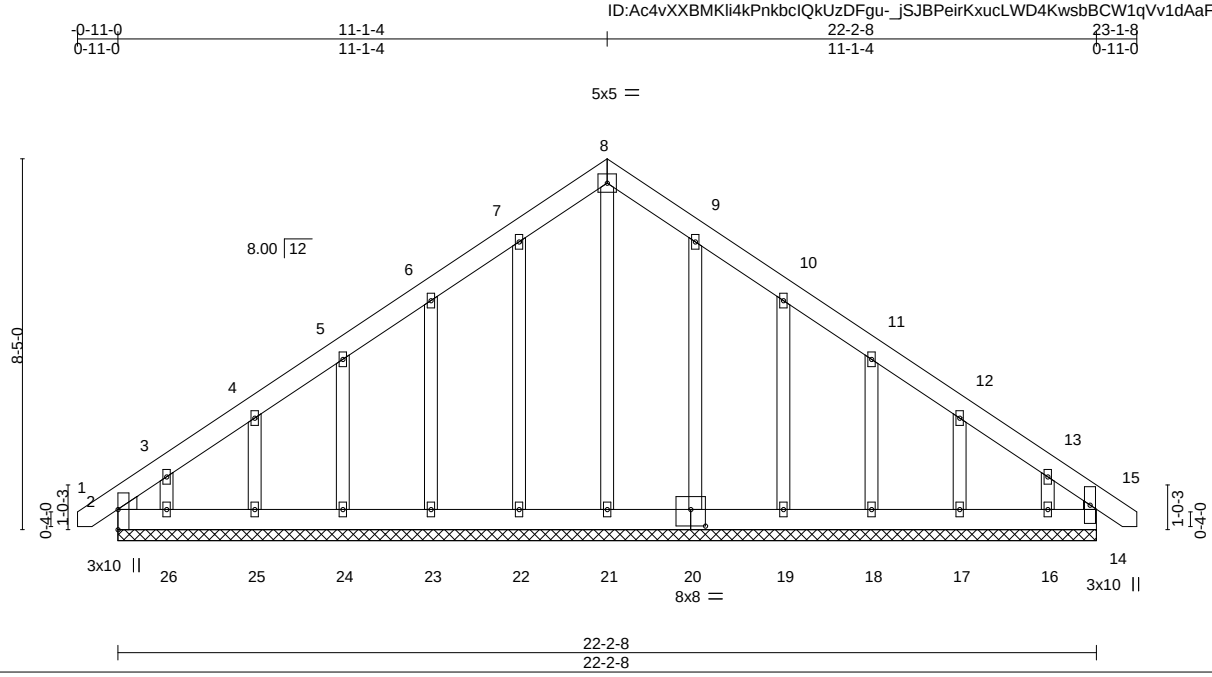

Plate Offsets (X,Y)-- [20:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	14	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 184 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 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. All bearings 22-2-8.
(lb) - Max Horz 2=-240(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 22, 23, 24, 25, 20, 19, 18, 17 except 26=-157(LC 12), 16=-160(LC 13), 2=-102(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 14, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 2

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-292/205

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Solid blocking is required on both sides of the truss at joint(s), 14.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 22, 23, 24, 25, 20, 19, 18, 17 except (jt=lb) 26=157, 16=160, 2=102.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	C2	COMMON	1	1	I52195397
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:49 2022 Page 1
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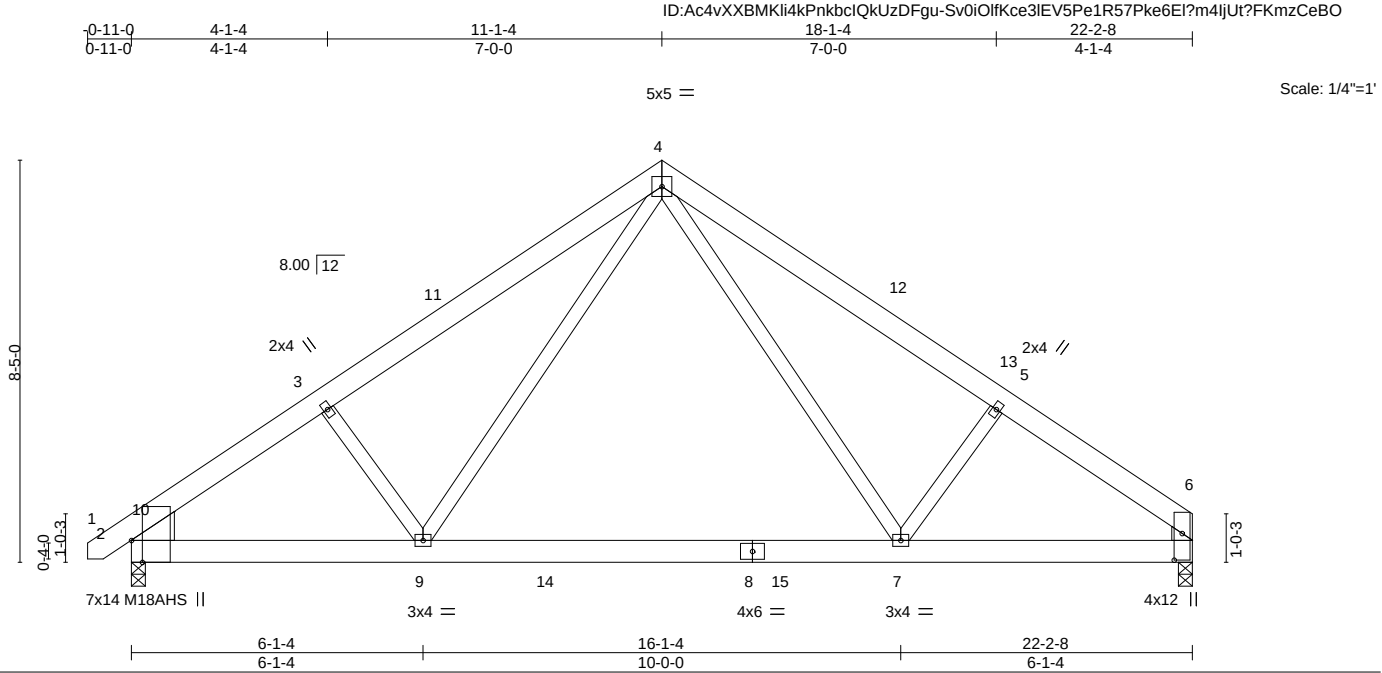

Plate Offsets (X,Y)-- [2:0-5-8,Edge], [6:0-6-11,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.14	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.21	7-9	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	7-9	>999	240	Weight: 158 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1 , Right: 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=0-3-8, 6=0-3-8
Max Horz 2=-190(LC 8)
Max Uplift 2=-56(LC 12), 6=-45(LC 13)
Max Grav 2=977(LC 19), 6=935(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1406/281, 3-4=-1288/336, 4-5=-1291/346, 5-6=-1409/291
BOT CHORD 2-9=-160/1199, 7-9=0/736, 6-7=-164/1062
WEBS 3-9=-301/226, 4-9=-90/618, 4-7=-95/622, 5-7=-301/228

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 11-1-4, Exterior(2) 11-1-4 to 15-6-1, Interior(1) 15-6-1 to 22-2-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	C2-GR	Common Girder	1	2	I52195398
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:51 2022 Page 1
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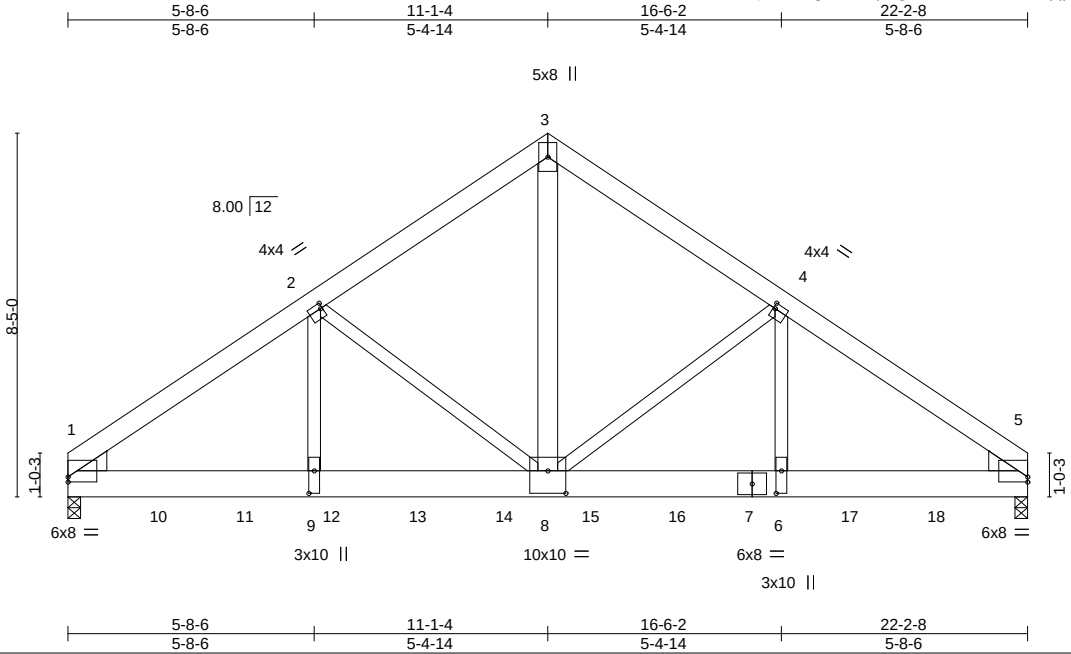

Plate Offsets (X,Y)-- [1:0-0-0,0-1-6], [2:0-0-8,0-1-8], [4:0-0-8,0-1-8], [5:Edge,0-1-6], [6:0-6-4,0-1-8], [8:0-5-0,0-6-4], [9:0-6-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.09	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.18	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.01	9	>999	240	Weight: 364 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
3-8: 2x6 SP No.1
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=188(LC 26)
Max Grav 1=8387(LC 2), 5=8297(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-11593/0, 2-3=-8005/0, 3-4=-8005/0, 4-5=-11566/0
BOT CHORD 1-9=0/9181, 8-9=0/9181, 6-8=0/9158, 5-6=0/9158
WEBS 2-9=0/4314, 2-8=-3261/0, 3-8=0/8496, 4-8=-3232/0, 4-6=0/4283

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 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 7-10; Vult=130mph 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
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1515 lb down at 2-0-12, 1515 lb down at 4-0-12, 1515 lb down at 6-0-12, 1515 lb down at 8-0-12, 1515 lb down at 10-0-12, 1515 lb down at 12-0-12, 1515 lb down at 14-0-12, 1515 lb down at 16-0-12, and 1515 lb down at 18-0-12, and 1515 lb down at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1194(B) 10=-1194(B) 11=-1194(B) 12=-1194(B) 13=-1194(B) 14=-1194(B) 15=-1194(B) 16=-1194(B) 17=-1194(B) 18=-1194(B)

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	D1	COMMON	2	1	I52195399
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:52 2022 Page 1
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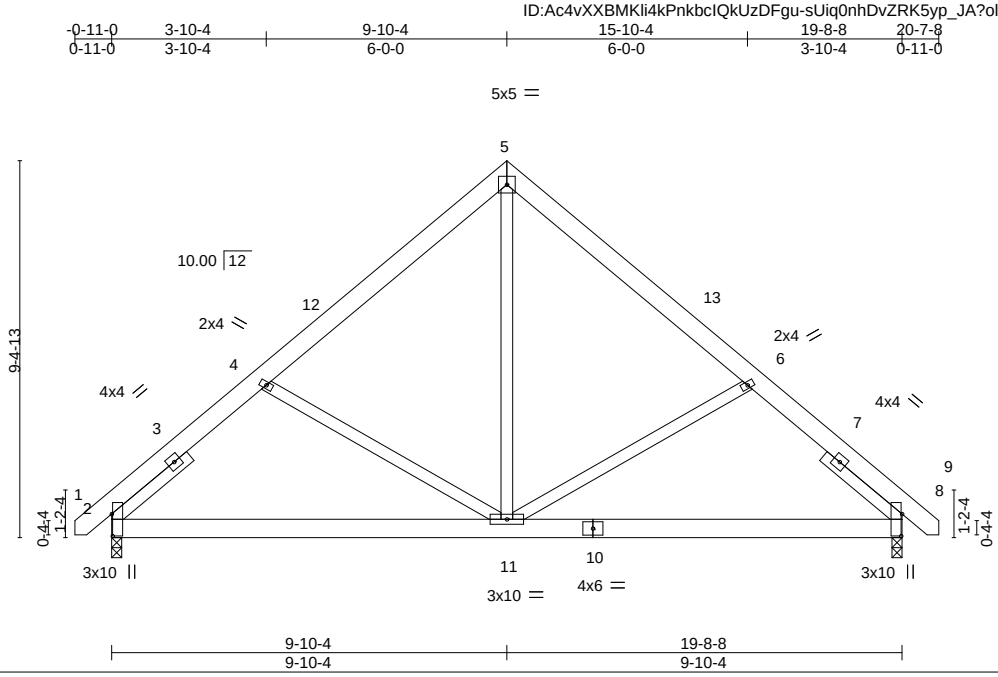

Plate Offsets (X,Y)-- [2:0-6-9,0-0-4], [8:0-6-9,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.04	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.09	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.09	8-11	>999	240	Weight: 153 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-0, 2=0-3-0
Max Horz 2=-213(LC 8)
Max Uplift 8=-105(LC 8), 2=-105(LC 9)
Max Grav 8=835(LC 1), 2=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-941/751, 4-5=-731/729, 5-6=-731/729, 6-8=-941/751
BOT CHORD 2-11=-472/631, 8-11=-471/631
WEBS 5-11=-716/499, 6-11=-309/217, 4-11=-309/217

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-11, Interior(1) 3-7-11 to 9-10-4, Exterior(2) 9-10-4 to 14-3-1, Interior(1) 14-3-1 to 20-5-12 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
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=105, 2=105.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	D1GE	GABLE	1	1	I52195400
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:53 2022 Page 1
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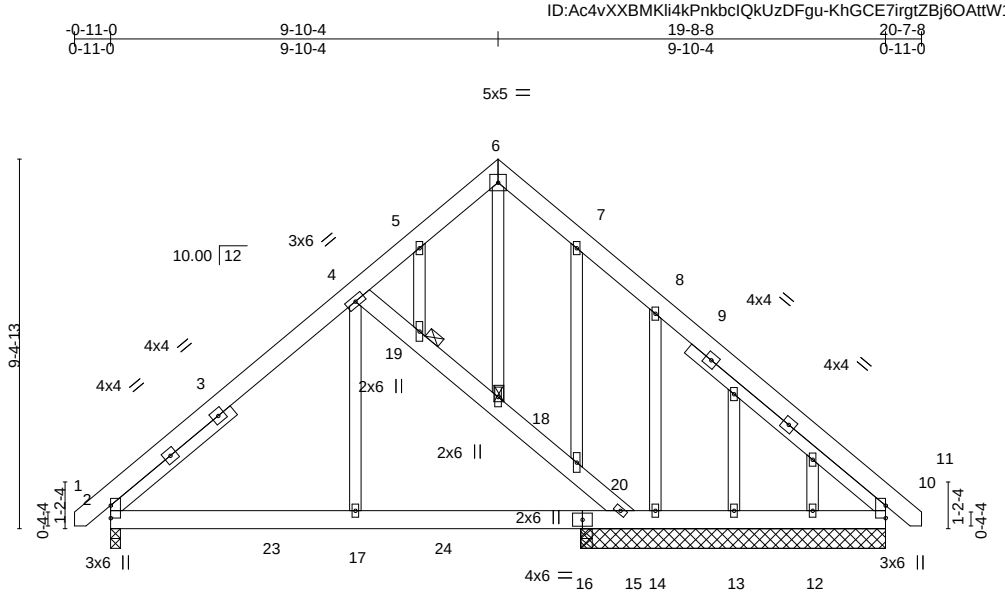

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.02	2-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	2-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 191 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except* 4-17: 2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 4-0-8, Right 2x4 SP No.2 6-6-0

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.
JOINTS	1 Brace at Jt(s): 18, 19

REACTIONS. All bearings 7-9-0 except (jt=length) 2=0-3-0.
(lb) - Max Horz 2=-266(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 14=-469(LC 13), 15=-244(LC 9), 12=-102(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 13, 12 except 2=638(LC 2), 10=282(LC 22), 14=324(LC 20), 15=628(LC 3)

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

TOP CHORD	2-4=-663/379, 8-10=-351/134
BOT CHORD	2-17=-209/533, 15-17=-209/533, 14-15=-180/316, 13-14=-180/316, 12-13=-180/316, 10-12=-180/316
WEBS	8-14=-425/364, 4-19=-460/544, 18-19=-461/538, 18-20=-455/522, 15-20=-469/546, 4-17=-335/377

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
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 studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=469, 15=244, 12=102.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	G1	COMMON	2	1	I52195401
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:54 2022 Page 1
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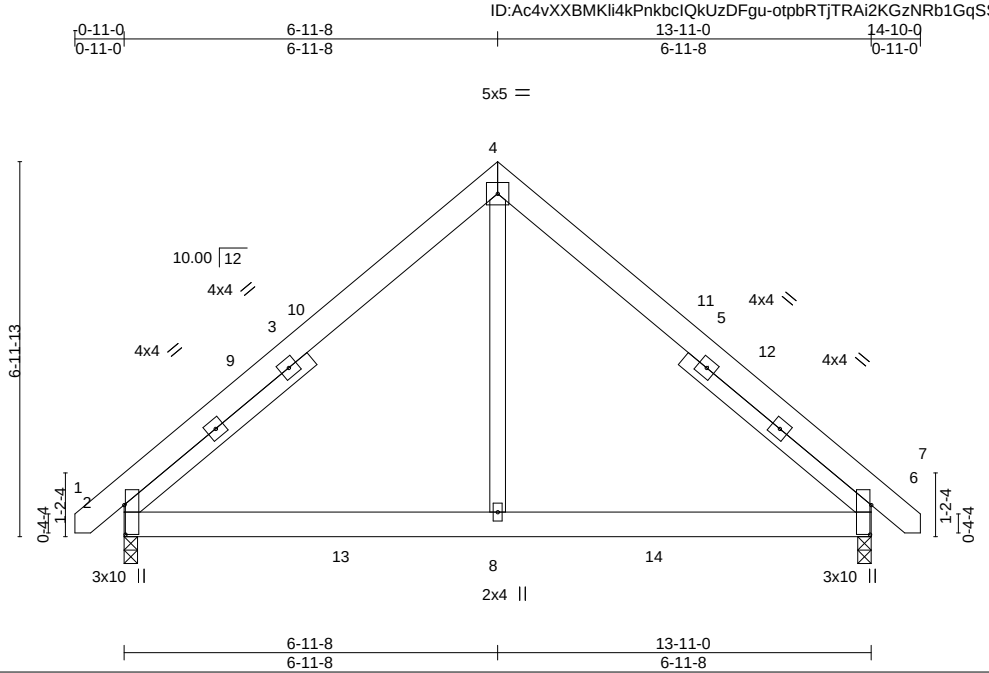

Plate Offsets (X,Y)-- [2:0-6-9,0-0-4], [6:0-6-9,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.03	2-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 4-6-4, Right 2x4 SP No.2 4-6-4

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=0-3-0, 6=0-3-0
Max Horz 2=-155(LC 8)
Max Uplift 2=-73(LC 9), 6=-73(LC 8)
Max Grav 2=657(LC 2), 6=657(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-669/531, 4-6=-669/531
BOT CHORD 2-8=-229/438, 6-8=-229/438
WEBS 4-8=-428/473

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 6-11-8, Exterior(2) 6-11-8 to 11-4-5, Interior(1) 11-4-5 to 14-8-4 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
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	G1GE	COMMON SUPPORTED GAB	1	1	I52195402
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:55 2022 Page 1
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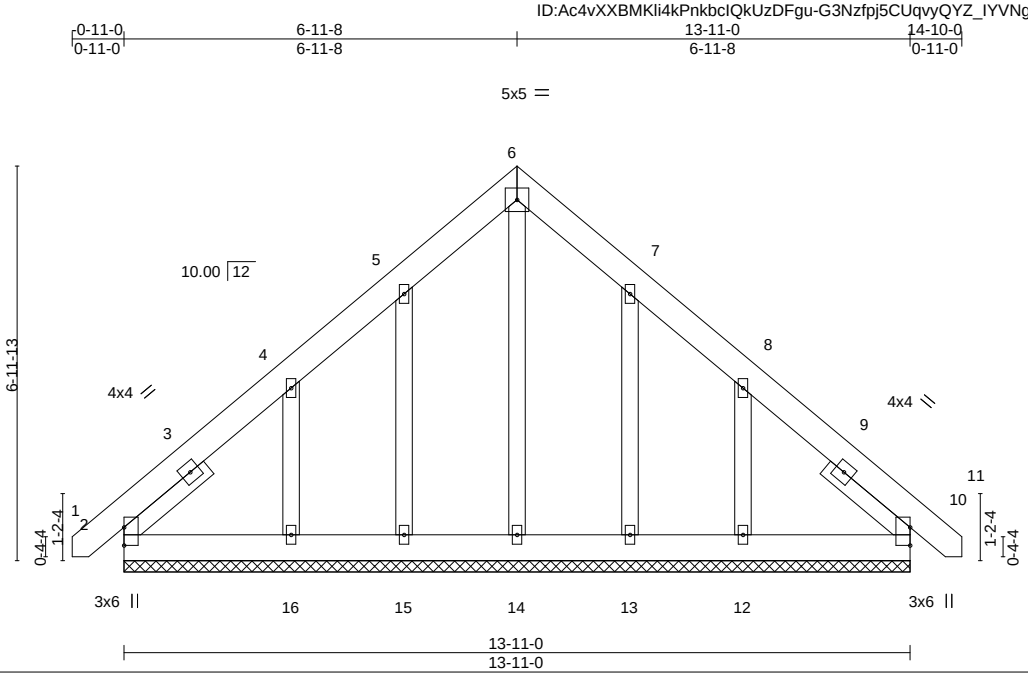

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0

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. All bearings 13-11-0.
(lb) - Max Horz 2=-193(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-218(LC 12), 12=-212(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=279(LC 19), 12=272(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-16=-255/228, 8-12=-255/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=218, 12=212.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	G2	COMMON	4	1	I52195403
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:56 2022 Page 1
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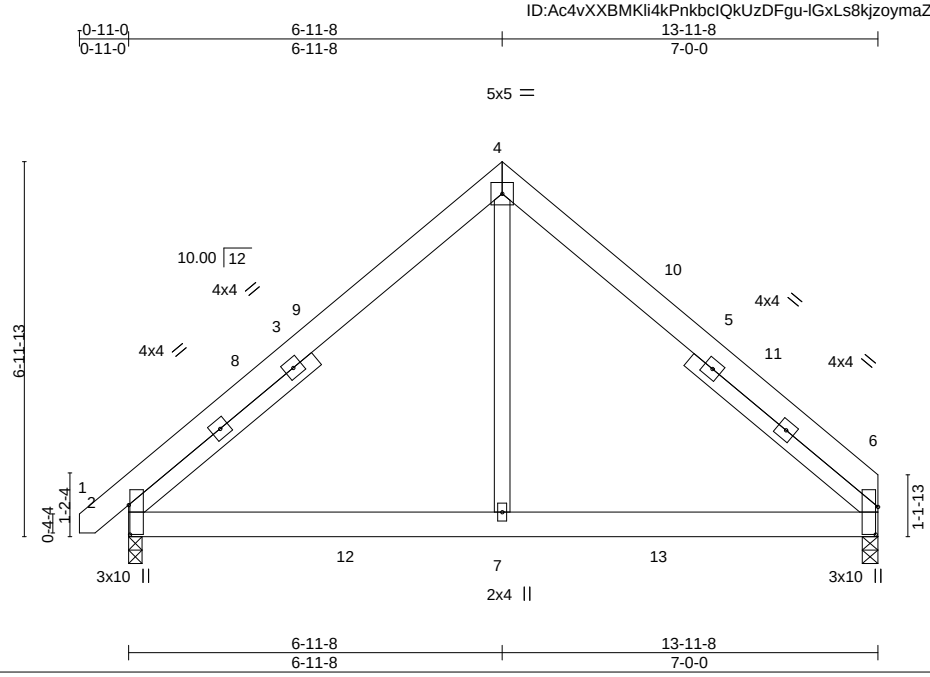

Plate Offsets (X,Y)-- [2:0-6-9,0-0-4], [6:0-6-3,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.03	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 4-6-4, Right 2x4 SP No.2 4-6-5

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) 6=0-3-8, 2=0-3-0
Max Horz 2=-155(LC 8)
Max Uplift 6=-70(LC 8), 2=-73(LC 9)
Max Grav 6=618(LC 2), 2=660(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-674/534, 4-6=-671/534
BOT CHORD 2-7=-230/441, 6-7=-230/441
WEBS 4-7=-430/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 6-11-8, Exterior(2) 6-11-8 to 11-4-5, Interior(1) 11-4-5 to 13-11-8 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
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	H1GE	COMMON SUPPORTED GAB	1	1	I52195404
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:57 2022 Page 1
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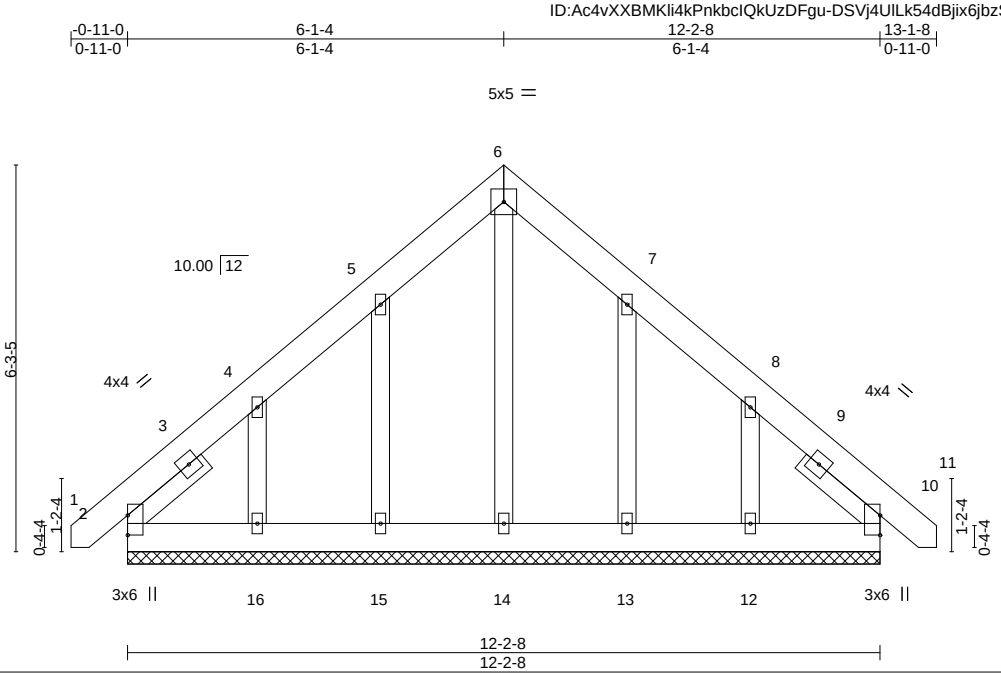

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-7-10, Right 2x4 SP No.2 1-7-10

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. All bearings 12-2-8.
(lb) - Max Horz 2=-172(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-187(LC 12), 12=-180(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=187, 12=180.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	K1	COMMON	2	1	I52195405
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:58 2022 Page 1
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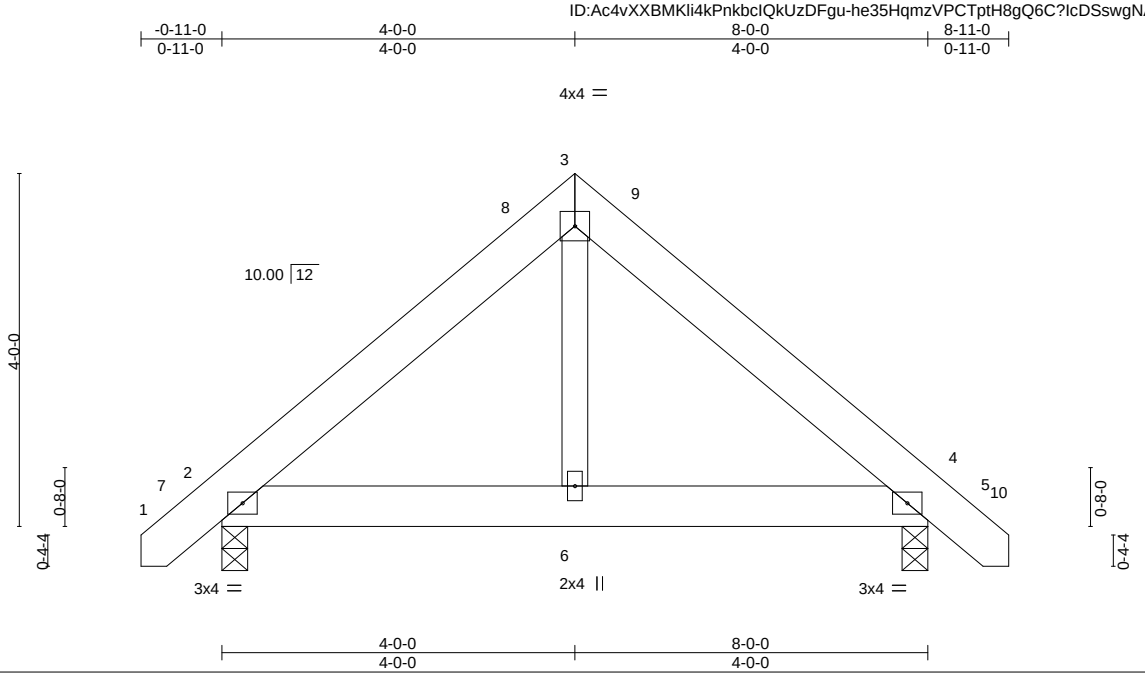

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P		Wind(LL)	-0.00	6	>999	240	Weight: 54 lb	FT = 20%

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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-95(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 13)
Max Grav 2=363(LC 1), 4=363(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-312/73, 3-4=-312/73

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 4-0-0, Exterior(2) 4-0-0 to 8-4-13, Interior(1) 8-4-13 to 8-9-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	K1GE	COMMON SUPPORTED GAB	1	1	I52195406
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:51:59 2022 Page 1
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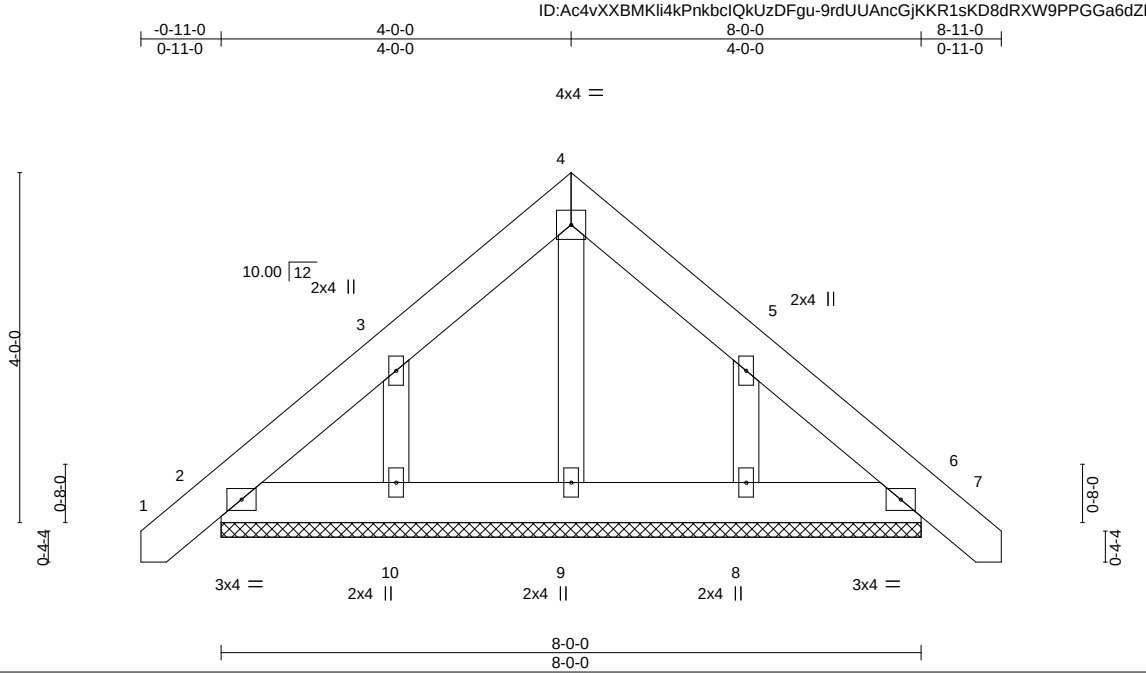

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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. All bearings 8-0-0.
(lb) - Max Horz 2=95(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-4 to 3-7-9, Exterior(2) 3-7-9 to 4-0-0, Corner(3) 4-0-0 to 8-4-13, Exterior(2) 8-4-13 to 8-9-4 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 8.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	M1GE	GABLE	1	1	I52195407
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:00 2022 Page 1
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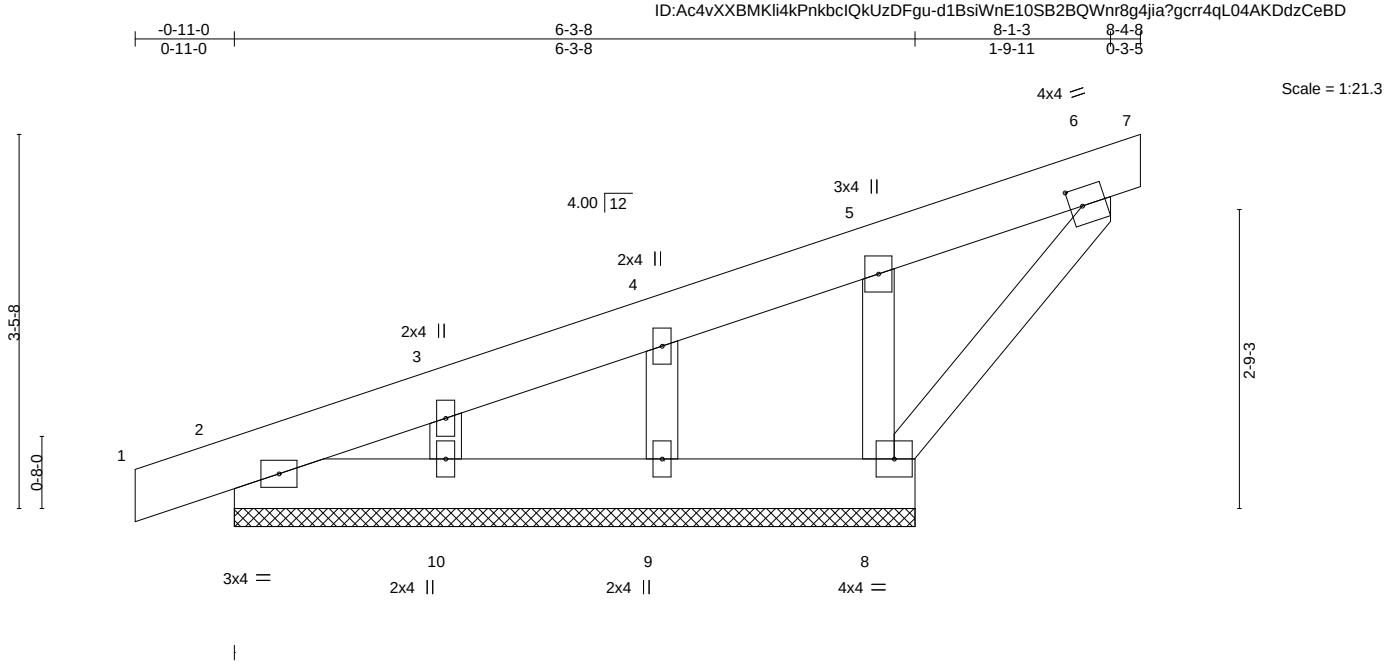

Plate Offsets (X,Y)-- [6:0-1-6,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 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 or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-3-8.
(lb) - Max Horz 2=146(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 10 except 8=-145(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 9, 10 except 8=251(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-274/128

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 10 except (jt=lb) 8=145.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	M2	ROOF SPECIAL	2	1	I52195408
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:01 2022 Page 1
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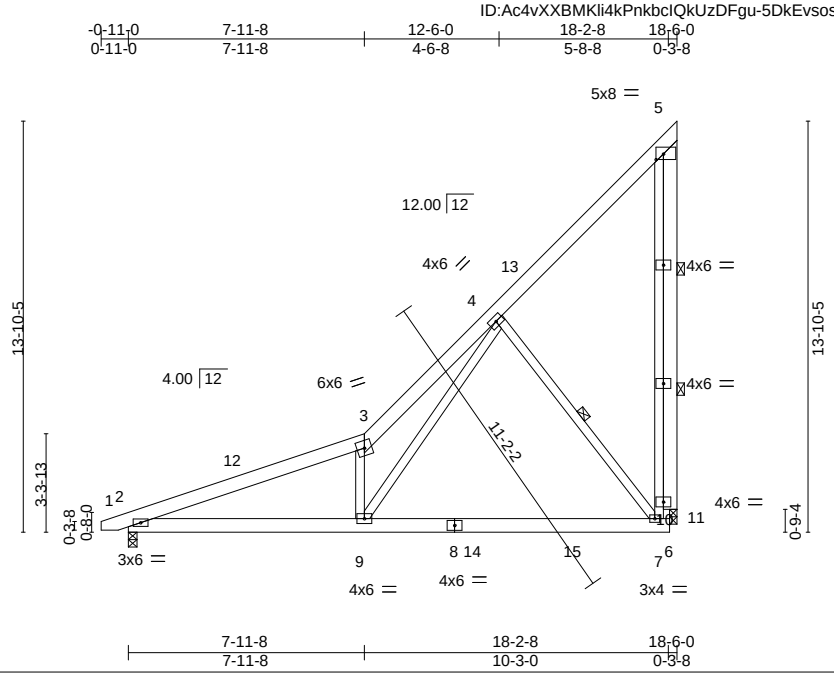

Plate Offsets (X,Y)-- [5:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.20	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.32	7-9	>673	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	2-9	>999	240	Weight: 176 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-7
	2 Rows at 1/3 pts 5-11

REACTIONS. (size) 2=0-3-8, 11=0-3-0
Max Horz 2=414(LC 12)
Max Uplift 2=-4(LC 8), 11=-214(LC 12)
Max Grav 2=776(LC 1), 11=839(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1468/0, 3-4=-1989/0
BOT CHORD 2-9=-157/1314, 7-9=-171/454
WEBS 7-10=-146/710, 5-10=-146/710, 3-9=-1167/118, 4-9=-1/1797, 4-7=-685/254, 5-11=-840/315

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 17-10-12 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=214.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	M3	MONOPITCH	2	1	I52195409
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:02 2022 Page 1
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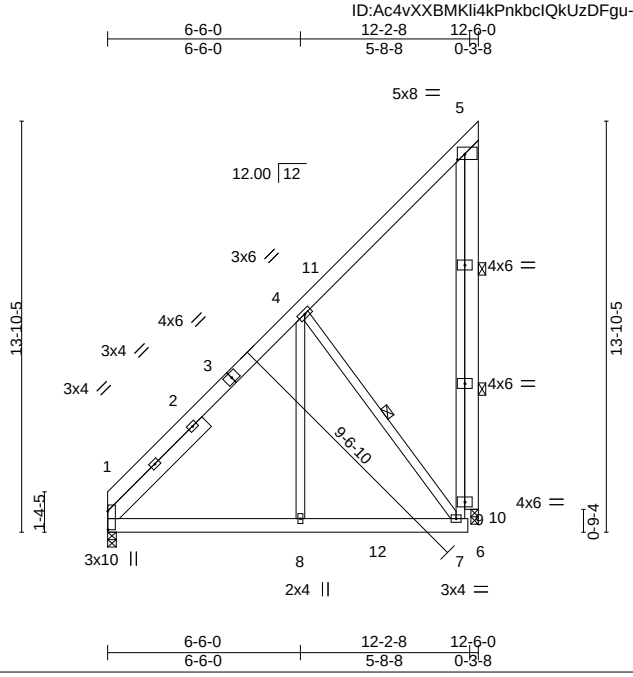

Plate Offsets (X,Y)-- [1:0-7-9,0-0-2], [5:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	1-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	7	>999	240	Weight: 152 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x6 SP No.1
SLIDER	Left 2x6 SP No.1 4-8-1

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.
WEBS	1 Row at midpt 4-7
	2 Rows at 1/3 pts 5-10

REACTIONS. (size) 1=0-3-8, 10=0-3-0
Max Horz 1=414(LC 12)
Max Uplift 10=-259(LC 12)
Max Grav 1=494(LC 1), 10=609(LC 19)

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

TOP CHORD	1-4=-543/0
BOT CHORD	1-8=-220/392, 7-8=-219/392
WEBS	7-9=-242/529, 5-9=-242/529, 4-8=0/282, 4-7=-609/339, 5-10=-697/391

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 11-10-12 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=259.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	M4	Jack-Closed	4	1	I52195410
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:03 2022 Page 1
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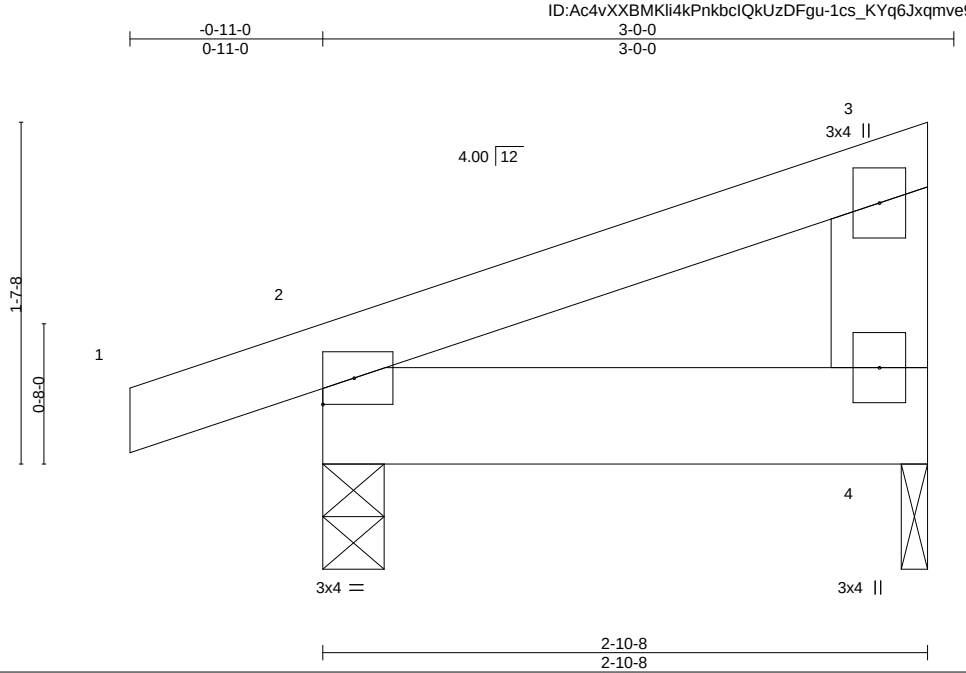

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 15 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-1-8, 2=0-3-8
Max Horz 2=56(LC 8)
Max Uplift 4=-35(LC 12), 2=-81(LC 8)
Max Grav 4=86(LC 1), 2=177(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	PB1	PIGGYBACK	17	1	I52195411
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:04 2022 Page 1
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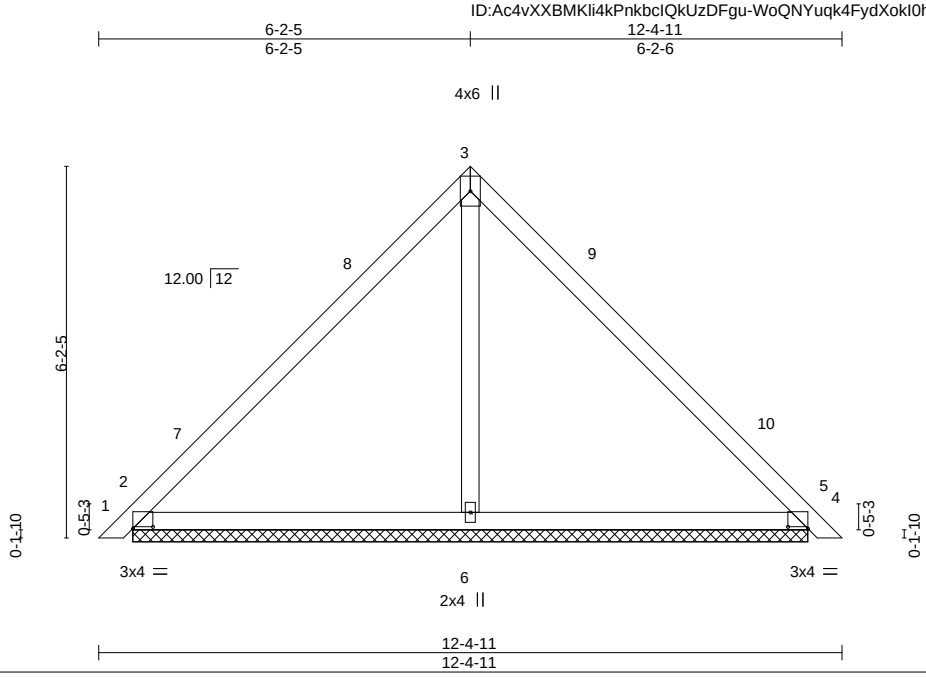

Plate Offsets (X,Y)-- [2:0-4-0,0-0-6], [4:0-4-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 51 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=11-3-0, 4=11-3-0, 6=11-3-0
Max Horz 2=144(LC 11)
Max Uplift 2=-32(LC 13), 4=-36(LC 13)
Max Grav 2=275(LC 1), 4=275(LC 1), 6=394(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 4-7-4, Interior(1) 4-7-4 to 6-2-5, Exterior(2) 6-2-5 to 10-7-2, Interior(1) 10-7-2 to 12-2-3 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) N/A.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

May 27,2022

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Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	PB1A	PIGGYBACK	3	1	I52195412
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:05 2022 Page 1
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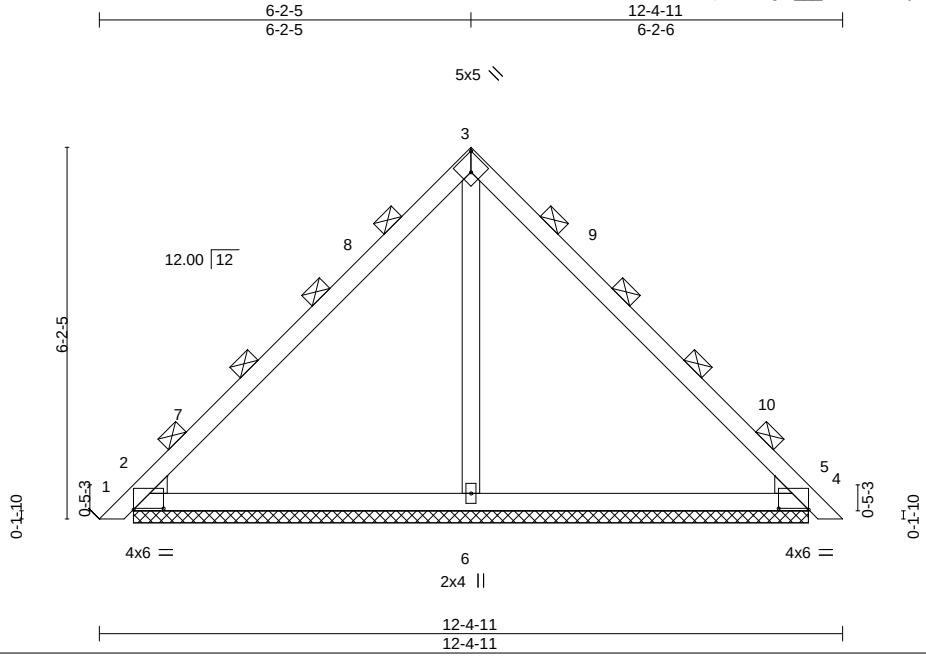

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-3-0,Edge], [4:0-6-0,0-0-4]

LOADING (psf)		SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.02	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	0.04	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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) 2=11-3-0, 4=11-3-0, 6=11-3-0
Max Horz 2=287(LC 11)
Max Uplift 2=-65(LC 13), 4=-72(LC 13)
Max Grav 2=550(LC 1), 4=550(LC 1), 6=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-450/224, 3-4=-423/228
WEBS 3-6=-429/143

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 4-7-4, Interior(1) 4-7-4 to 6-2-5, Exterior(2) 6-2-5 to 10-7-2, Interior(1) 10-7-2 to 12-2-3 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) N/A.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 27,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	PB1B	PIGGYBACK	2	1	I52195413
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:06 2022 Page 1
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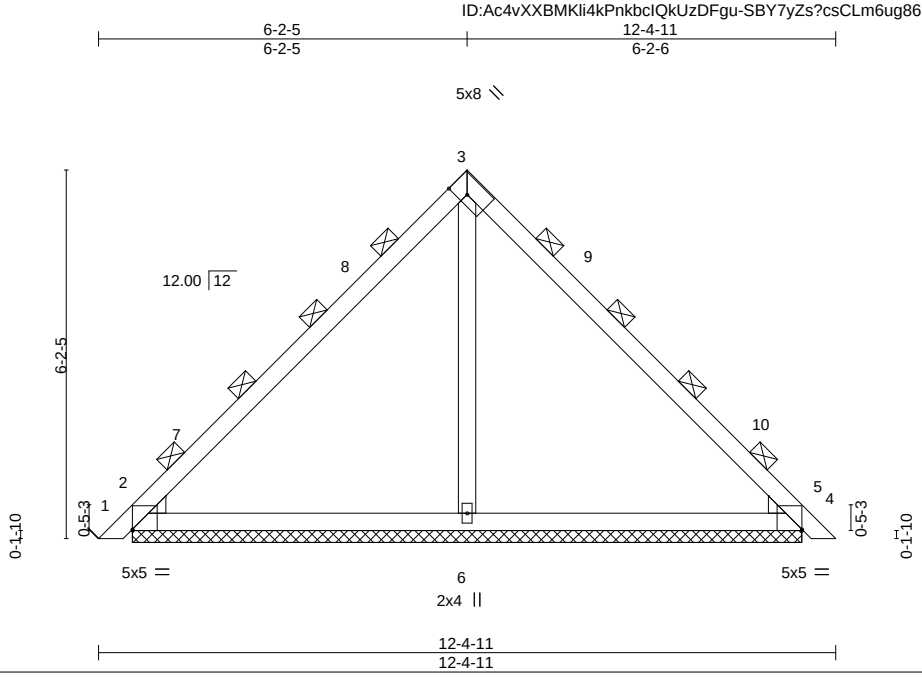

Plate Offsets (X,Y)-- [2:Edge,0-0-4], [3:Edge,0-1-12], [4:0-0-0,0-0-4]

LOADING (psf)		SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	0.03	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	0.05	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (2-3-13 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=11-3-0, 4=11-3-0, 6=11-3-0
Max Horz 2=-359(LC 10)
Max Uplift 2=-81(LC 13), 4=-90(LC 13)
Max Grav 2=687(LC 1), 4=688(LC 1), 6=984(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-562/276, 3-4=-528/280
WEBS 3-6=-536/174

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 4-7-4, Interior(1) 4-7-4 to 6-2-5, Exterior(2) 6-2-5 to 10-7-2, Interior(1) 10-7-2 to 12-2-3 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) N/A.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 27,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	PB1GE	GABLE	2	1	I52195414
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:07 2022 Page 1
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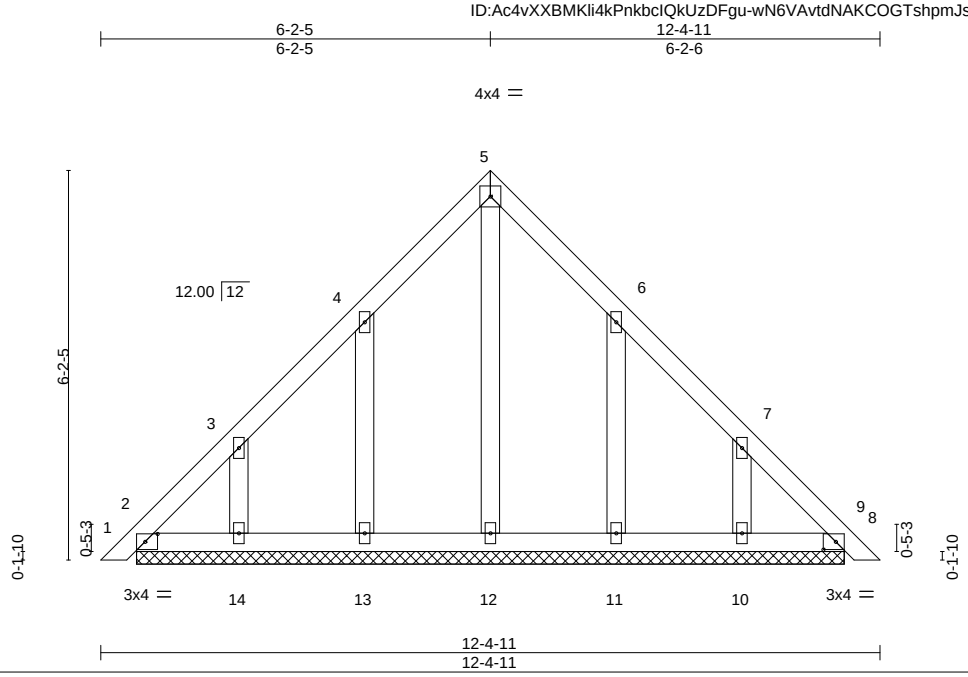

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [8:0-2-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 66 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. All bearings 11-3-1.
(lb) - Max Horz 2=-179(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-146(LC 12), 14=-146(LC 12), 11=-144(LC 13), 10=-146(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=146, 14=146, 11=144, 10=146.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	PB2	PIGGYBACK	11	1	I52195415
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:07 2022 Page 1
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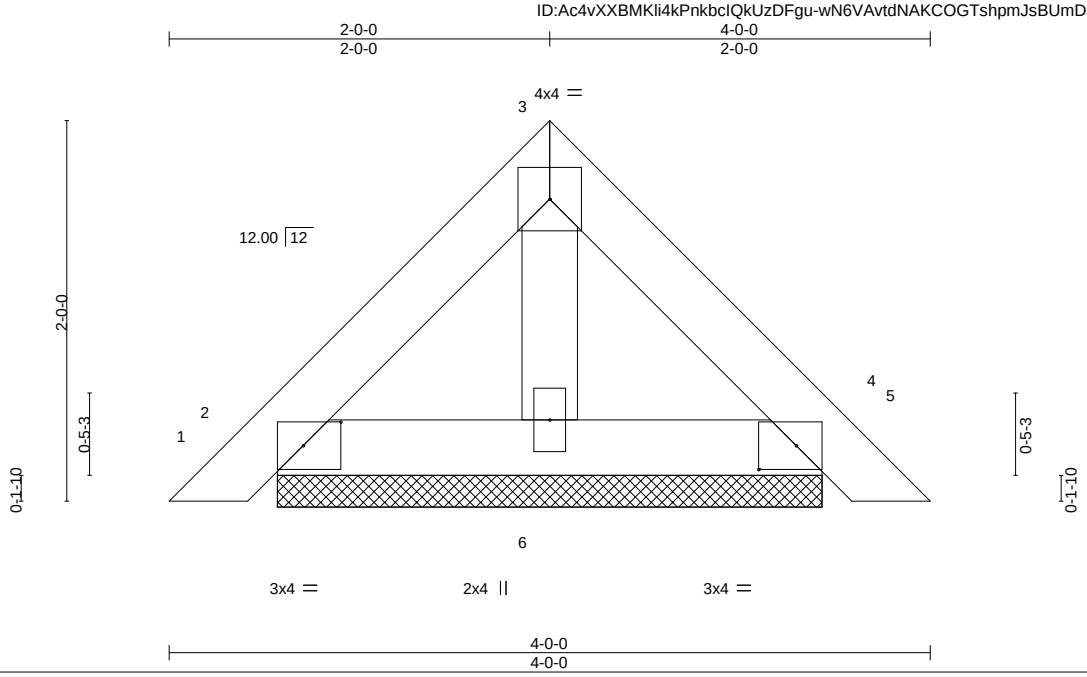

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 14 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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-10-6, 4=2-10-6, 6=2-10-6
Max Horz 2=54(LC 11)
Max Uplift 2=-32(LC 12), 4=-37(LC 13)
Max Grav 2=94(LC 1), 4=94(LC 1), 6=88(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VC1	VALLEY	1	1	I52195416
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:08 2022 Page 1
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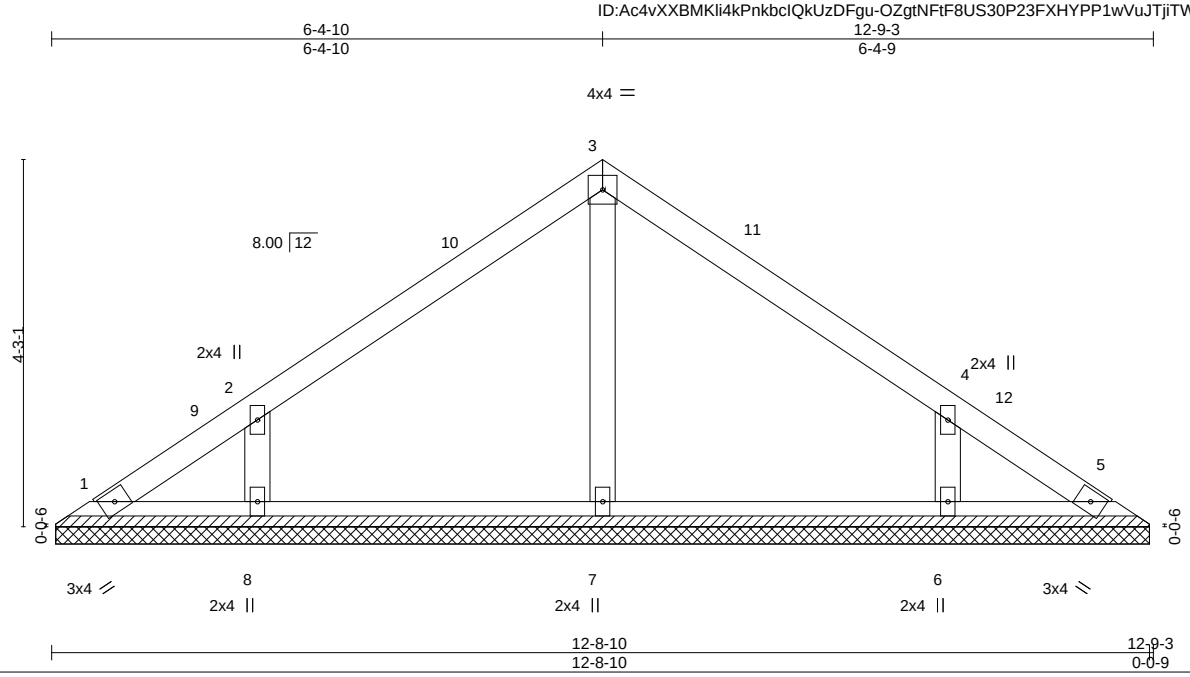

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 48 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. All bearings 12-8-1.
(lb) - Max Horz 1=94(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=316(LC 19), 6=316(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-278/199, 4-6=-278/199

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 6-4-10, Exterior(2) 6-4-10 to 10-9-6, Interior(1) 10-9-6 to 12-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VC2	VALLEY	1	1	I52195417
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:09 2022 Page 1
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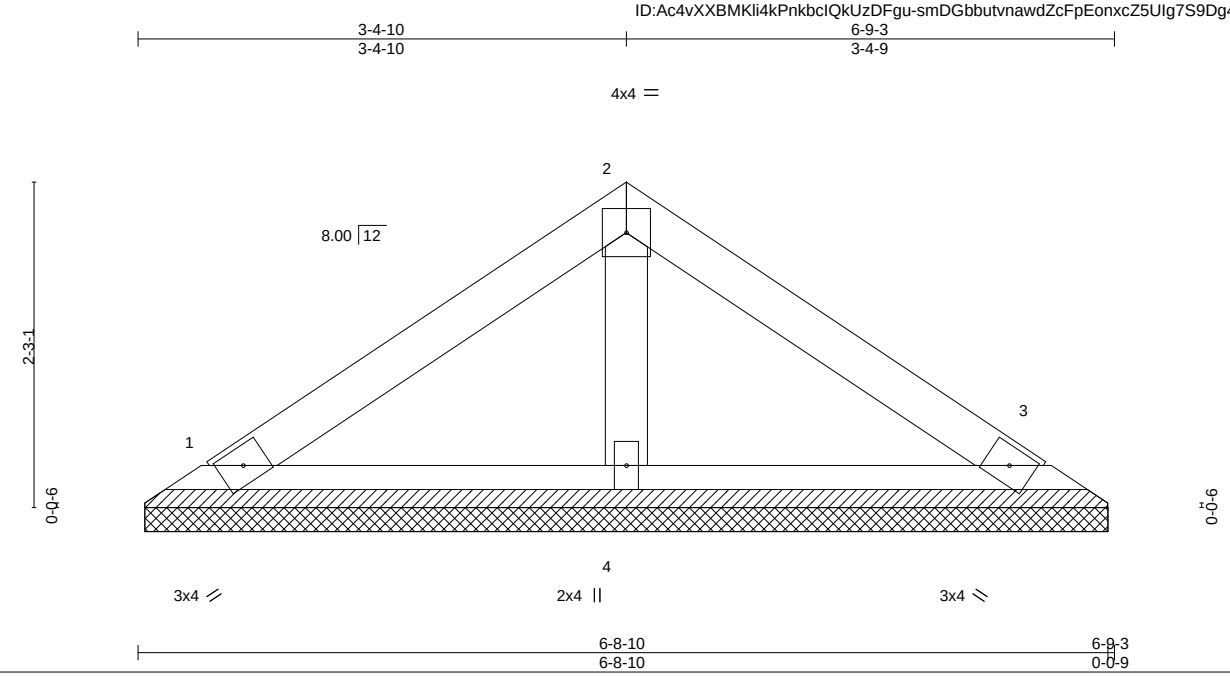

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 23 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=6-8-1, 3=6-8-1, 4=6-8-1
Max Horz 1=-46(LC 8)
Max Uplift 1=-20(LC 12), 3=-24(LC 13)
Max Grav 1=126(LC 1), 3=126(LC 1), 4=211(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VD1	VALLEY	1	1	I52195418
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:10 2022 Page 1
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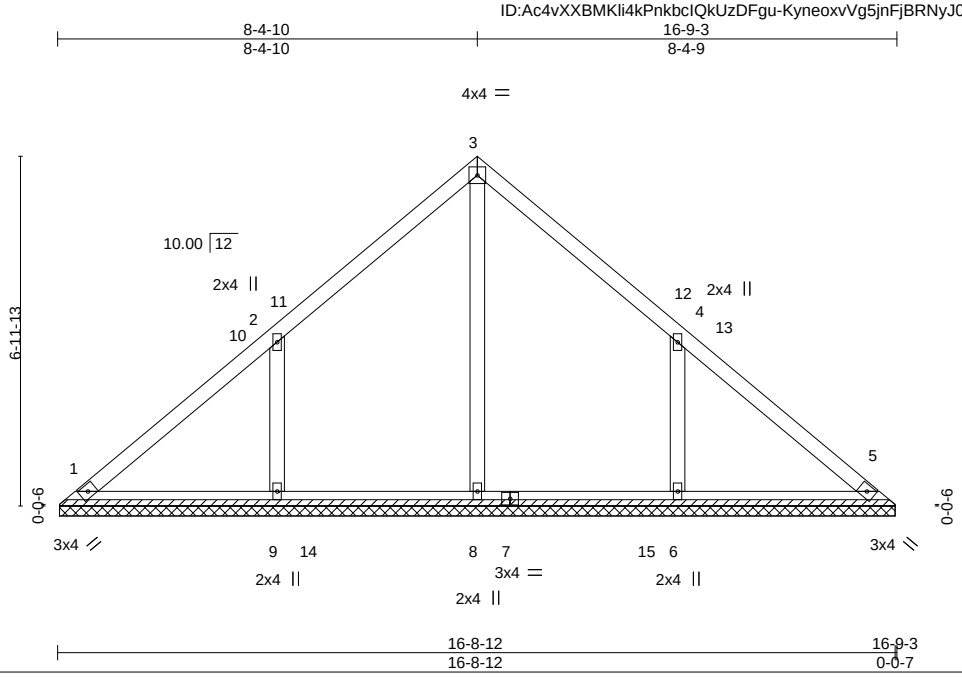

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 74 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. All bearings 16-8-5.
(lb) - Max Horz 1=159(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-153(LC 12), 6=-153(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=416(LC 22), 9=478(LC 19), 6=477(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-380/266, 4-6=-380/266

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-4-10, Exterior(2) 8-4-10 to 12-9-7, Interior(1) 12-9-7 to 16-4-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=153, 6=153.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VD2	VALLEY	1	1	I52195419
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:13 2022 Page 1
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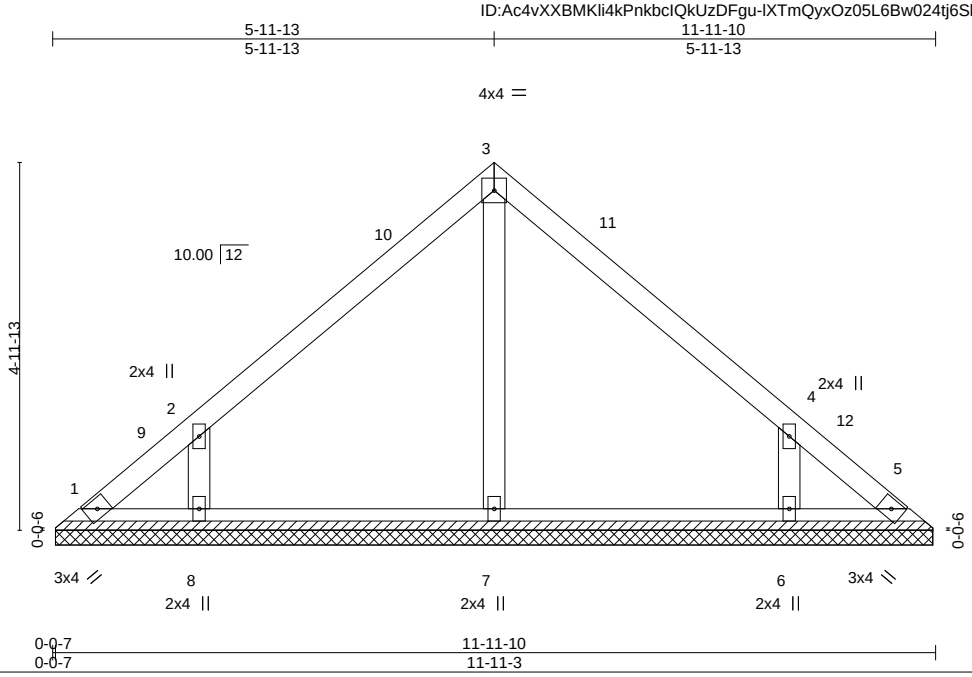

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 49 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. All bearings 11-10-11.
(lb) - Max Horz 1=-112(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-123(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 19), 6=324(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-314/246, 4-6=-314/246

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-11-13, Exterior(2) 5-11-13 to 10-4-10, Interior(1) 10-4-10 to 11-6-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=123, 6=123.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VD3	VALLEY	1	1	I52195420
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:16 2022 Page 1
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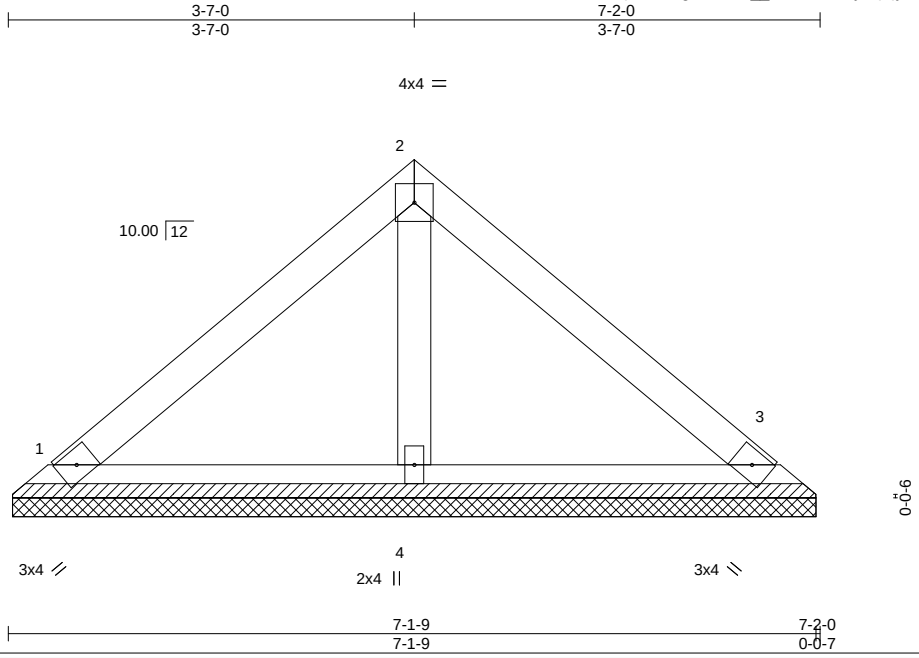


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 26 lb	FT = 20%

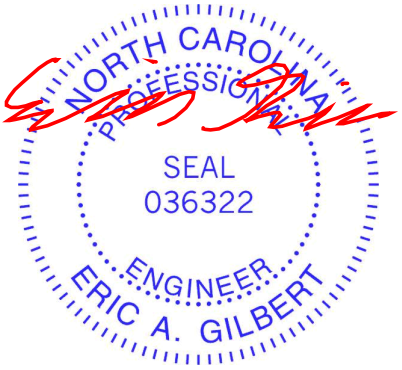
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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=7-1-2, 3=7-1-2, 4=7-1-2
Max Horz 1=-64(LC 8)
Max Uplift 1=-22(LC 13), 3=-28(LC 13)
Max Grav 1=147(LC 1), 3=147(LC 1), 4=215(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VD4	VALLEY	1	1	I52195421
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:17 2022 Page 1
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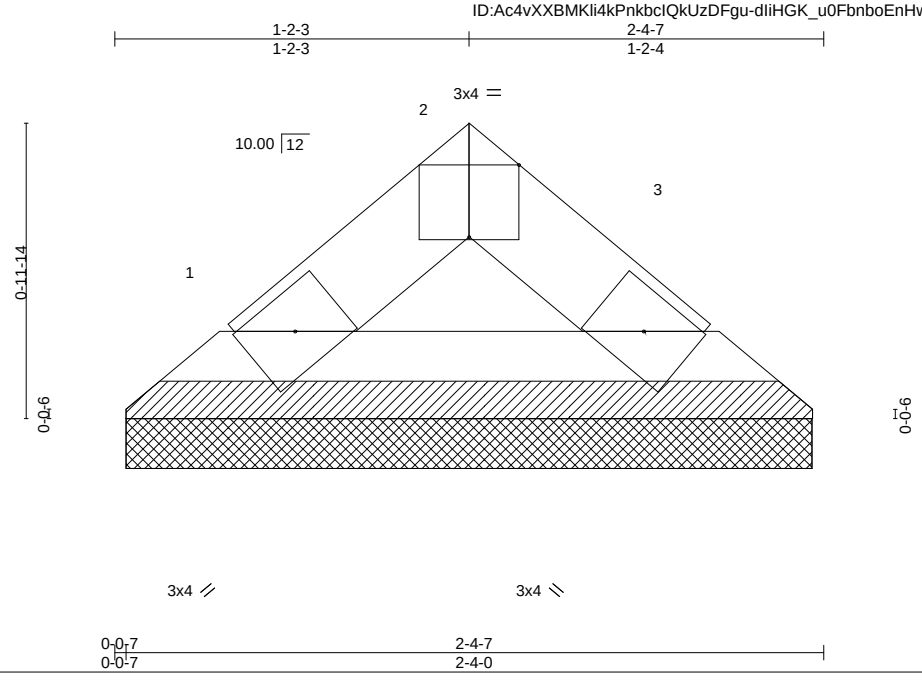

Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-3-8, 3=2-3-8
Max Horz 1=-16(LC 8)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)
Max Grav 1=63(LC 1), 3=63(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
6) N/A.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VG1	VALLEY	1	1	I52195422
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:18 2022 Page 1
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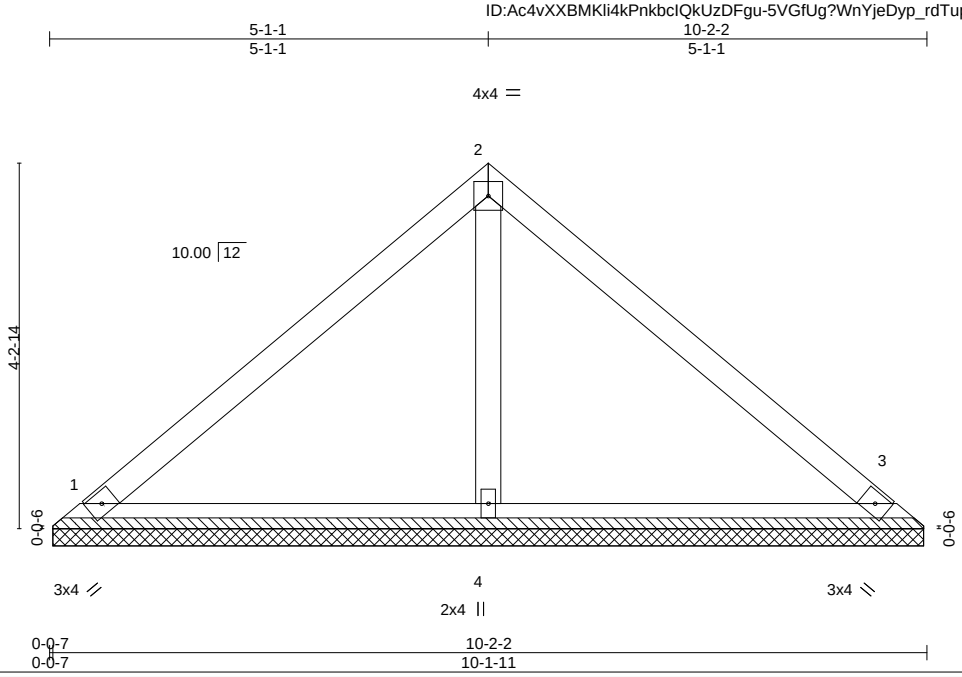


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 39 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=10-1-3, 3=10-1-3, 4=10-1-3
Max Horz 1=-94(LC 8)
Max Uplift 1=-22(LC 13), 3=-31(LC 13)
Max Grav 1=200(LC 1), 3=200(LC 1), 4=349(LC 1)

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

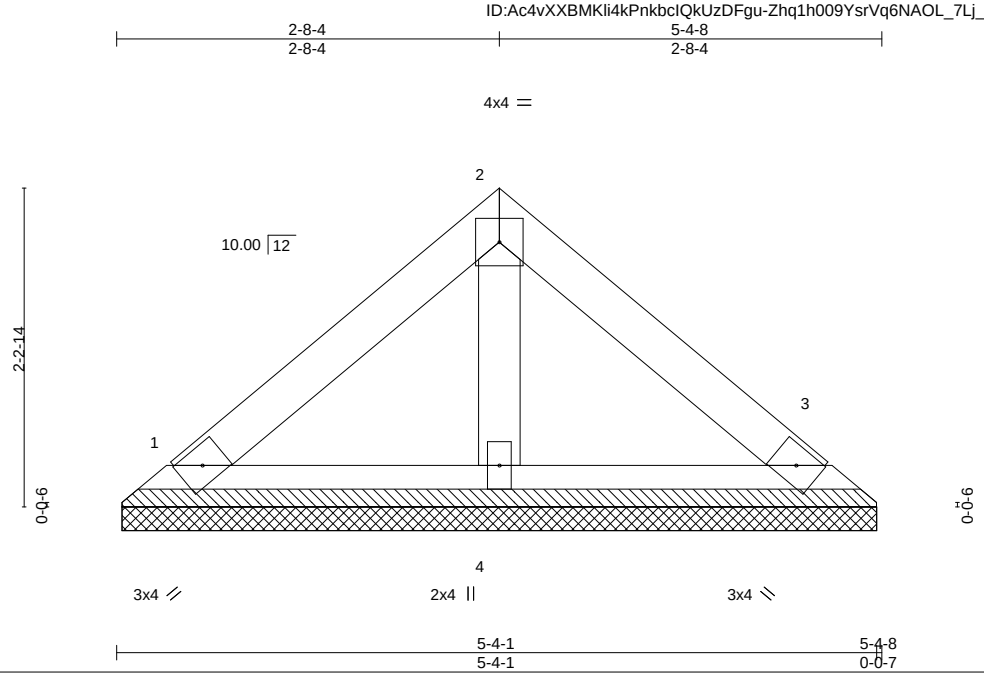
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
6) N/A.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 27,2022

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

Job	Truss	Truss Type	Qty	Ply	75 Lakewind Ct.
J0522-2779	VG2	VALLEY	1	1	I52195423
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu May 26 11:52:19 2022 Page 1
ID:Ac4vXXBMKli4kPnkbcIQkUzDFgu-Zhq1h009YsrVq6NAOL_7Lj_oaK5qogm8OYGqN1zCeAw



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 19 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 5-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-3-10, 3=5-3-10, 4=5-3-10
Max Horz 1=46(LC 11)
Max Uplift 1=-16(LC 13), 3=-20(LC 13)
Max Grav 1=106(LC 1), 3=106(LC 1), 4=154(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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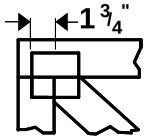
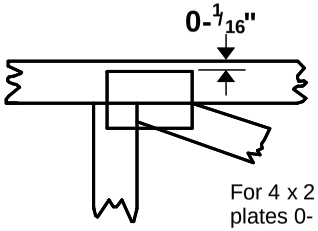
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

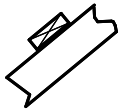
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

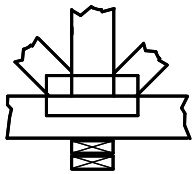
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

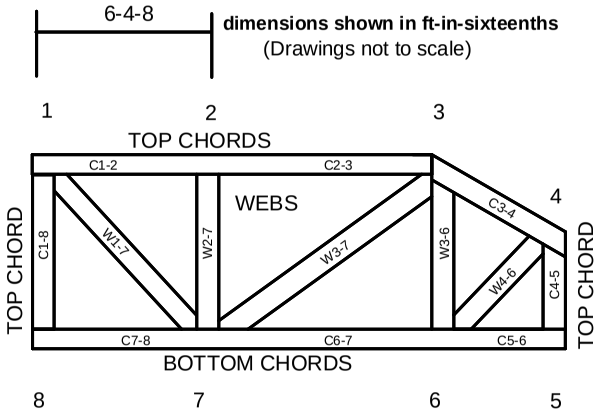


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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