ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0822-4264
Wellco / 114 Hidden Lakes / Johnston

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: I54280508 thru I54280544

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

North Carolina COA: C-0844

September 20,2022

Johnson, Andrew

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.

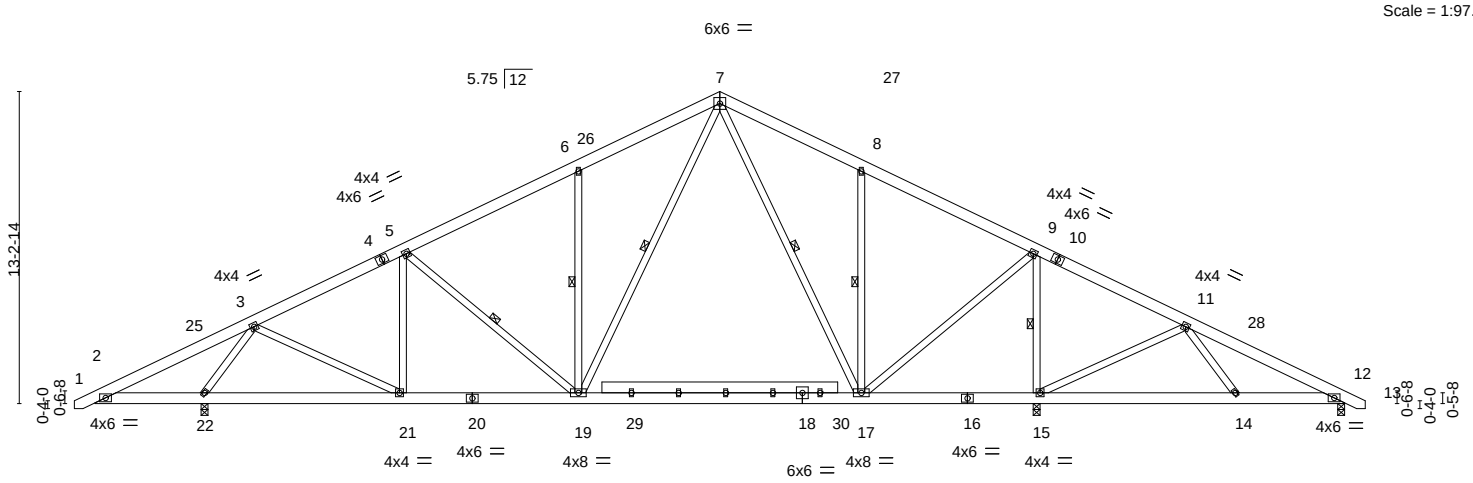
Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A1	COMMON	8	1	I54280508
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:28 2022 Page 1

ID:tuSuYIo1EfqYp??D9p1B5czDgot-vQrls3guT9_V6NpbnGGTFnoHWs7heNCurc8cdWyc0LH

-0-10-8	6-8-15	13-0-12	20-6-0	26-6-0	32-6-0	39-11-4	46-3-1	53-0-0	53-10-8
0-10-8	6-8-15	6-3-13	7-5-4	6-0-0	6-0-0	7-5-4	6-3-13	6-8-15	0-10-8

Scale = 1:97.7



4-7-12	13-0-12	20-6-0	32-6-0	39-11-4	48-4-4	53-0-0
4-7-12	8-5-0	7-5-4	12-0-0	7-5-4	8-5-0	4-7-12

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	0.22	Vert(LL)	-0.31	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.45	17-19	>956	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.05	14-15	>999	240	Weight: 434 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 5-11-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22,15-17.
WEBS	1 Row at midpt 5-19, 7-19, 7-17, 9-15, 6-19, 8-17

REACTIONS. (size) 22=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 22=-156(LC 13)
Max Uplift 22=-146(LC 12), 15=-130(LC 13), 12=-105(LC 8)
Max Grav 22=1796(LC 1), 15=2222(LC 2), 12=448(LC 24)

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

TOP CHORD	2-3=-506/563, 3-5=-1684/254, 5-6=-1572/318, 6-7=-1563/473, 7-8=-1026/349, 8-9=-1037/218, 9-11=-150/327, 11-12=-560/419
BOT CHORD	2-22=-421/539, 21-22=-159/872, 19-21=-116/1548, 17-19=0/985, 15-17=-224/327, 14-15=-83/312, 12-14=-256/428
WEBS	3-22=-1919/685, 3-21=-121/806, 7-19=-247/1024, 7-17=-281/59, 9-17=-200/1409, 9-15=-1784/431, 11-15=-562/461, 11-14=-305/373, 6-19=-433/288, 8-17=-429/286

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) -0-8-5 to 4-7-5, Interior(1) 4-7-5 to 26-6-0, Exterior(2) 26-6-0 to 31-9-10, Interior(1) 31-9-10 to 53-8-5 zone; cantilever left exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 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) except (jt=lb) 22=146, 15=130, 12=105.

September 20,2022

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TRENCO
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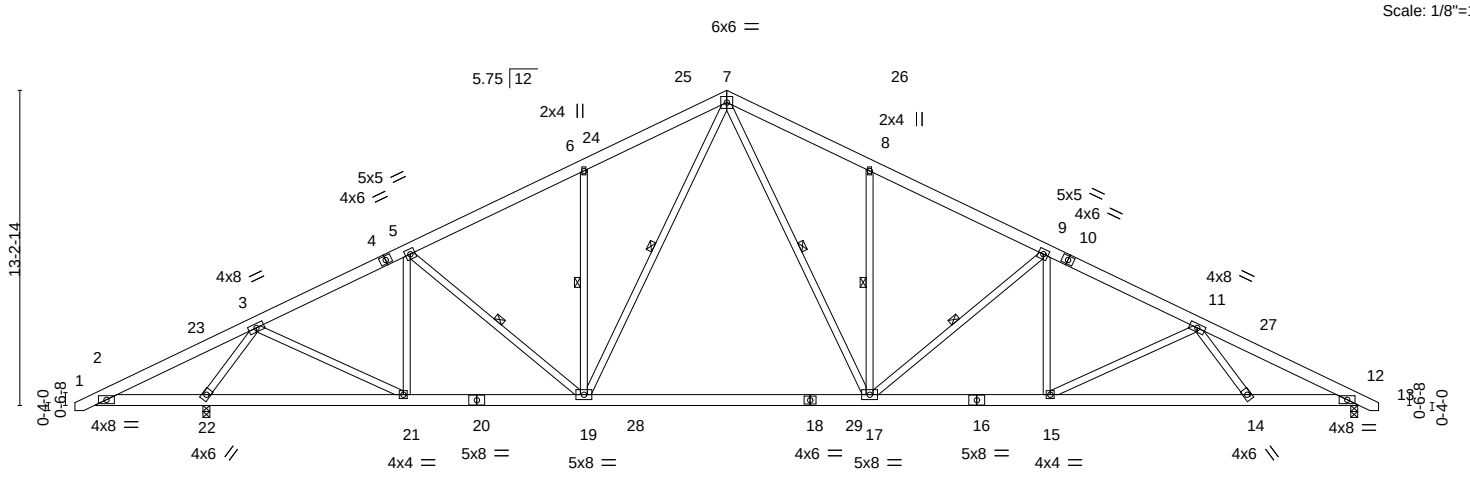
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A2	COMMON	2	1	I54280509
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:30 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-rpyWHli8?nFDLgz_uhIxKCuaafoN6BTAJwdjiOyc0LF

-0-10-8	6-8-15	13-0-12	20-6-0	26-6-0	32-6-0	39-11-4	46-3-1	53-0-0	53-10-8
0-10-8	6-8-15	6-3-13	7-5-4	6-0-0	6-0-0	7-5-4	6-3-13	6-8-15	0-10-8

Scale: 1/8"=1'



4-7-12	13-0-12	20-6-0	32-6-0	39-11-4	48-4-4	53-0-0
4-7-12	8-5-0	7-5-4	12-0-0	7-5-4	8-5-0	4-7-12

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

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	0.44	Vert(LL)	-0.34	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.57	17-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	17	>999	240	Weight: 411 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
16-18,18-20: 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 7-19, 7-17, 9-17, 6-19, 8-17

REACTIONS. (size) 22=0-3-8, 12=0-3-8
Max Horz 22=-156(LC 17)
Max Uplift 22=-206(LC 12), 12=-163(LC 13)
Max Grav 22=2858(LC 1), 12=2193(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-504/556, 3-5=-3267/717, 5-6=-3391/802, 6-7=-3379/964, 7-8=-3339/932, 8-9=-3357/803, 9-11=-3957/862, 11-12=-4456/866
BOT CHORD 2-22=-418/538, 21-22=-200/1578, 19-21=-440/2969, 17-19=-233/2371, 15-17=-531/3514, 14-15=-711/3834, 12-14=-656/3924
WEBS 3-22=-3188/1043, 3-21=-358/1620, 5-21=-603/270, 7-19=-390/1377, 7-17=-327/1415, 9-17=-790/233, 9-15=-7/427, 11-15=-453/203, 11-14=0/340, 6-19=-875/441, 8-17=-413/281

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) -0-8-5 to 4-7-5, Interior(1) 4-7-5 to 26-6-0, Exterior(2) 26-6-0 to 31-9-10, Interior(1) 31-9-10 to 53-8-5 zone; cantilever left 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) except (jt=lb) 22=206, 12=163.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-25=-120(F=-60), 7-25=-60, 7-13=-60, 2-12=-20

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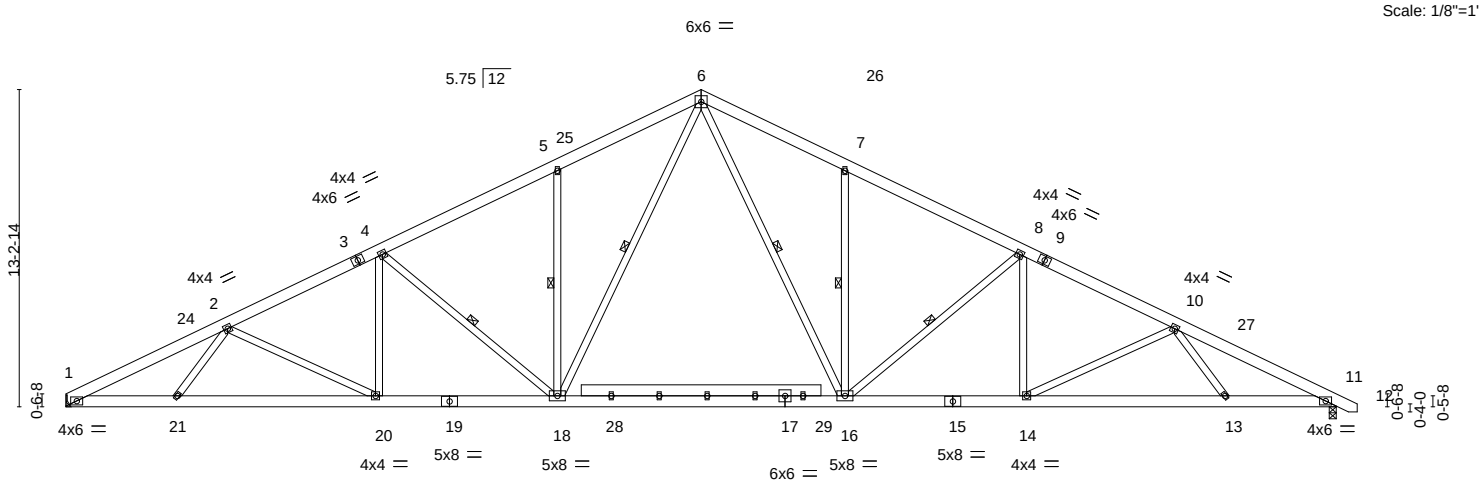
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A3	COMMON	1	1	I54280510
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:31 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-J?WuU5imm4N4zqYASOqAtPQnI3B0rlEKXaNGEryc0LE

6-8-15	13-0-12	20-6-0	26-6-0	32-6-0	39-11-4	46-3-1	53-0-0	53-10-8
6-8-15	6-3-13	7-5-4	6-0-0	6-0-0	7-5-4	6-3-13	6-8-15	0-10-8

Scale: 1/8"=1'



4-7-12	13-0-12	20-6-0	32-6-0	39-11-4	48-4-4	53-0-0
4-7-12	8-5-0	7-5-4	12-0-0	7-5-4	8-5-0	4-7-12

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	0.32	Vert(LL)	-0.38	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.40	Vert(CT)	-0.64	16-18	>985	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.42	Horz(CT)	-0.13	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.13	16	>999	240	Weight: 432 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
22-23: 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-18, 6-16, 8-16, 5-18, 7-16

REACTIONS. (size) 1=Mechanical, 11=0-3-8
Max Horz 11=-160(LC 17)
Max Uplift 1=-129(LC 12), 11=-141(LC 13)
Max Grav 1=2149(LC 2), 11=2192(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4457/825, 2-4=-3965/807, 4-5=-3357/738, 5-6=-3342/869, 6-7=-3339/866, 7-8=-3355/731, 8-10=-3954/791, 10-11=-4452/798
BOT CHORD 1-21=-644/3945, 20-21=-701/3859, 18-20=-496/3520, 16-18=-188/2354, 14-16=-493/3511, 13-14=-666/3832, 11-13=-612/3920
WEBS 2-21=0/337, 2-20=-480/231, 4-20=-21/433, 4-18=-797/242, 6-18=-331/1416, 6-16=-330/1411, 8-16=-790/234, 8-14=-8/427, 10-14=-461/205, 10-13=0/337, 5-18=-422/284, 7-16=-421/284

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) 0-1-4 to 5-4-14, Interior(1) 5-4-14 to 26-6-0, Exterior(2) 26-6-0 to 31-9-10, Interior(1) 31-9-10 to 53-8-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=129, 11=141.

September 20,2022

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TRENCO
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818 Soundside Road
Edenton, NC 27932

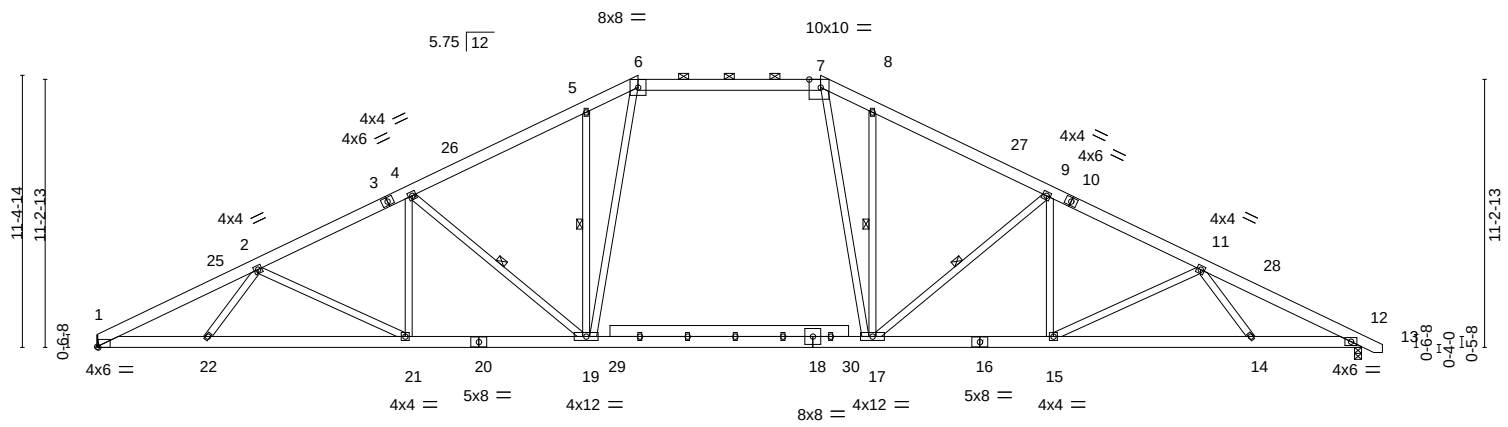
Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A4	HIP	1	1	I54280511
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:32 2022 Page 1

ID:tuSuYIo1EfqYp??D9p1B5czDgot-nB4GiRjOXOVxb_7M06LPPdzvUTWba8eTmE6pmHyc0LD

6-8-15	13-0-12	20-6-0	22-8-1	30-3-15	32-6-0	39-11-4	46-3-1	48-4-4	53-0-0	53-10-8
6-8-15	6-3-13	7-5-4	2-2-1	7-7-13	2-2-1	7-5-4	6-3-13	2-1-3	4-7-12	0-10-8

Scale: 1/8"=1'



4-7-12	13-0-12	20-6-0	32-6-0	39-11-4	48-4-4	53-0-0
4-7-12	8-5-0	7-5-4	12-0-0	7-5-4	8-5-0	4-7-12

Plate Offsets (X,Y)-- [1:0-0-10,Edge], [7:0-5-12,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	0.48	Vert(LL)	-0.47	19-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.67	17-19	>943	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.14	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.25	19-21	>999	240	Weight: 421 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
23-24: 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except
2-0-0 oc purlins (4-4-8 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 4-19, 8-17, 9-17

REACTIONS. (size) 1=Mechanical, 12=0-3-8
Max Horz 1=-137(LC 17)
Max Uplift 1=-110(LC 12), 12=-121(LC 13)
Max Grav 1=2200(LC 2), 12=2243(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4589/939, 2-4=-4088/930, 4-5=-3479/858, 5-6=-3363/984, 6-7=-2839/829, 7-8=-3356/986, 8-9=-3476/854, 9-11=-4069/929, 11-12=-4566/908
BOT CHORD 1-22=-725/4068, 21-22=-787/3980, 19-21=-649/3632, 17-19=-371/2839, 15-17=-644/3616, 14-15=-774/3932, 12-14=-711/4022
WEBS 2-22=0/338, 11-14=0/337, 11-15=-437/203, 4-21=-11/461, 2-21=-473/233, 9-15=-9/443, 5-19=-427/294, 4-19=-886/282, 6-19=-323/1244, 8-17=-420/289, 9-17=-871/277, 7-17=-318/1230

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) 0-0-12 to 5-4-6, Interior(1) 5-4-6 to 22-8-1, Exterior(2) 22-8-1 to 37-9-14, Interior(1) 37-9-14 to 53-8-5 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 2x4 MT20 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, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=110, 12=121.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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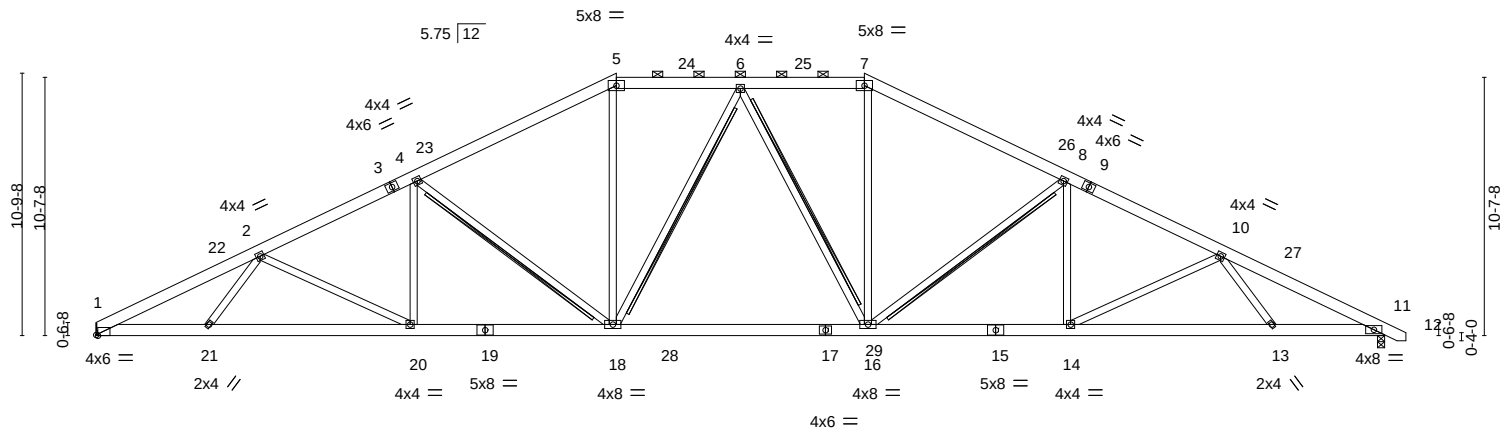
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A5	HIP	1	1	I54280512
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:34 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-kaC077lf3?lfqIGl7WNtV22H1G9l25fmDYbwrAyc0LB

6-8-15	13-0-12	21-4-13	26-6-0	31-7-3	39-11-4	46-3-1	53-0-0	53-10-8
6-8-15	6-3-13	8-4-1	5-1-3	5-1-3	8-4-1	6-3-13	6-8-15	0-10-8

Scale = 1:94.8



4-7-12	13-0-12	21-4-13	31-7-3	39-11-4	48-4-4	53-0-0
4-7-12	8-5-0	8-4-1	10-2-7	8-4-1	8-5-0	4-7-12

Plate Offsets (X,Y)-- [1:0-0-14,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	0.35	Vert(LL)	-0.33	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.58	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.14	16-18	>999	240	Weight: 401 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 3-5-5 oc purlins, except 2-0-0 oc purlins (4-7-12 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 8-10-5 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-18, 6-16, 4-18, 8-16
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 11=0-3-8
Max Horz 1=-130(LC 13)
Max Uplift 1=-103(LC 12), 11=-114(LC 13)
Max Grav 1=2118(LC 2), 11=2162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4402/941, 2-4=-3916/943, 4-5=-3224/858, 5-6=-2820/849, 6-7=-2816/852, 7-8=-3220/861, 8-10=-3898/943, 10-11=-4379/909
BOT CHORD 1-21=-735/3900, 20-21=-794/3817, 18-20=-667/3480, 16-18=-443/2890, 14-16=-662/3465, 13-14=-780/3770, 11-13=-724/3855
WEBS 5-18=-165/1023, 6-18=-394/139, 6-16=-400/143, 7-16=-163/1022, 4-20=-5/472, 8-14=0/461, 4-18=-862/311, 8-16=-849/308, 2-20=-467/223, 2-21=0/331, 10-14=-433/193, 10-13=0/329

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) 0-0-12 to 5-4-6, Interior(1) 5-4-6 to 21-4-13, Exterior(2) 21-4-13 to 28-10-12, Interior(1) 28-10-12 to 31-7-3, Exterior(2) 31-7-3 to 39-1-3, Interior(1) 39-1-3 to 53-8-5 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=103, 11=114.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

September 20,2022

ENGINEERING BY TRENCO
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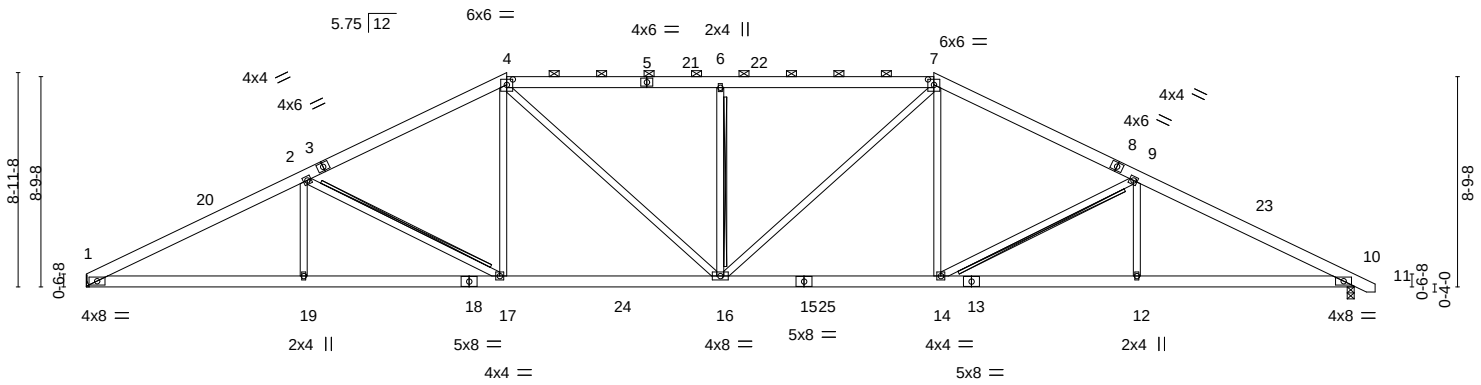
Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A6	HIP	1	1	I54280513
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:35 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-CmmPKTmHqJtWSSrxhEu61FbPNgW1mYAvSCLUNcyc0LA

9-1-1	17-6-14	26-6-0	35-5-2	43-10-15	53-0-0	53-10-8
9-1-1	8-5-13	8-11-2	8-11-2	8-5-13	9-1-1	0-10-8

Scale: 1/8"=1'



9-1-1	17-6-14	26-6-0	35-5-2	43-10-15	53-0-0
9-1-1	8-5-13	8-11-2	8-11-2	8-5-13	9-1-1

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

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	0.57	Vert(LL)	-0.25	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.48	16-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.16	16	>999	240	Weight: 369 lb	FT = 20%

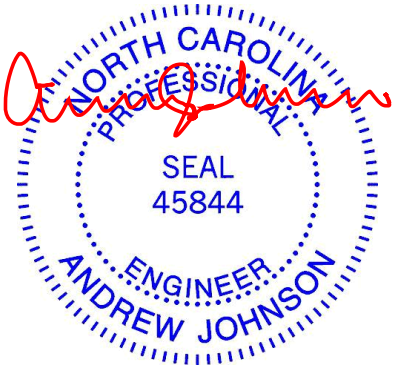
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except
2-0-0 oc purlins (3-10-1 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 8-8-3 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-17, 9-14, 6-16
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 10=0-3-8
Max Horz 1=-108(LC 17)
Max Uplift 1=-77(LC 12), 10=-88(LC 13)
Max Grav 1=2111(LC 1), 10=2162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4194/1014, 2-4=-3501/920, 4-6=-3521/994, 6-7=-3523/995, 7-9=-3491/921, 9-10=-4191/1013
BOT CHORD 1-19=-819/3697, 17-19=-819/3697, 16-17=-543/3066, 14-16=-537/3057, 12-14=-807/3666, 10-12=-807/3666
WEBS 2-19=0/371, 2-17=-812/311, 4-17=-48/663, 4-16=-183/780, 7-16=-188/791, 7-14=-44/653, 9-14=-788/305, 9-12=0/366, 6-16=-661/324

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) 0-0-12 to 5-4-6, Interior(1) 5-4-6 to 17-6-14, Exterior(2) 17-6-14 to 25-0-13, Interior(1) 25-0-13 to 35-5-2, Exterior(2) 35-5-2 to 42-11-1, Interior(1) 42-11-1 to 53-8-5 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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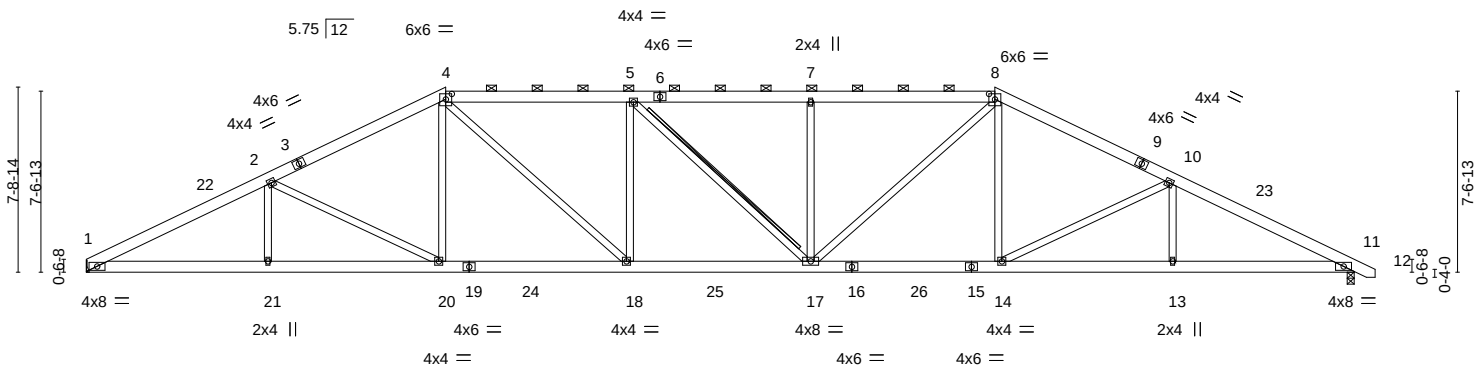
Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A7	HIP	1	1	I54280514
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:36 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-gzJnYpmvbd?N3bQ7FxPLaT8ce4tfVxd3hs41v2yc0L9

7-7-1	15-0-4	22-8-11	30-3-5	37-11-12	45-4-15	53-0-0	53-10-8
7-7-1	7-5-3	7-8-7	7-6-11	7-8-7	7-5-3	7-7-1	0-10-8

Scale: 1/8"=1'



7-7-1	15-0-4	22-8-11	30-3-5	37-11-12	45-4-15	53-0-0
7-7-1	7-5-3	7-8-7	7-6-11	7-8-7	7-5-3	7-7-1

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

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	0.41	Vert(LL)	-0.26	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.51	17-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.18	17-18	>999	240	Weight: 376 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 3-4-10 oc purlins, except
2-0-0 oc purlins (3-8-5 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 8-6-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-17
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 11=0-3-8
Max Horz 1=-93(LC 13)
Max Uplift 1=-68(LC 9), 11=-72(LC 8)
Max Grav 1=2111(LC 1), 11=2162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4261/1044, 2-4=-3735/958, 4-5=-4046/1079, 5-7=-3997/1072, 7-8=-3999/1074, 8-10=-3695/959, 10-11=-4246/1040
BOT CHORD 1-21=-858/3771, 20-21=-858/3771, 18-20=-614/3294, 17-18=-755/4044, 14-17=-610/3259, 13-14=-846/3724, 11-13=-846/3724
WEBS 2-21=0/305, 2-20=-645/272, 4-20=-38/538, 4-18=-258/1124, 5-18=-595/270, 7-17=-515/271, 8-17=-260/1107, 8-14=-35/531, 10-14=-613/264, 10-13=0/300

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) 0-0-12 to 5-4-6, Interior(1) 5-4-6 to 15-0-4, Exterior(2) 15-0-4 to 22-8-11, Interior(1) 22-8-11 to 37-11-12, Exterior(2) 37-11-12 to 45-4-15, Interior(1) 45-4-15 to 53-8-5 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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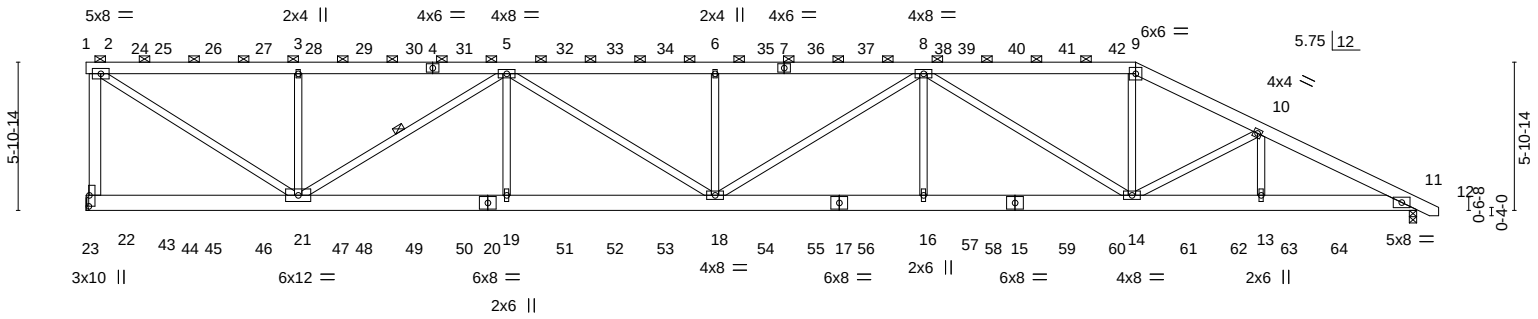
Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	A8	ROOF SPECIAL GIRDER	1	2	I54280515
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:42 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-V7h2osrgATlWnWuHbCWlpkOe?Vwmvbux3oXL7iyc0L3

8-5-6	16-9-0	25-0-10	33-4-4	41-9-10	46-9-10	53-0-0	53-10-8
8-5-6	8-3-10	8-3-10	8-3-10	8-5-6	5-0-0	6-2-6	0-10-8

Scale = 1:91.8



8-5-6	16-9-0	25-0-10	33-4-4	41-9-10	46-9-10	53-0-0
8-5-6	8-3-10	8-3-10	8-3-10	8-5-6	5-0-0	6-2-6

Plate Offsets (X,Y)-- [22:0-5-4,0-0-4]

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	0.35	Vert(LL)	-0.28	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.57	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.40	16-18	>999	240	Weight: 842 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2 *Except*
2-22: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-5 max.): 1-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-21

REACTIONS. (size) 22=Mechanical, 11=0-3-8
Max Horz 22=-184(LC 9)
Max Uplift 22=-1568(LC 4), 11=-1223(LC 4)
Max Grav 22=3783(LC 1), 11=3788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-3596/1625, 2-3=-4862/2001, 3-5=-4862/2001, 5-6=-9201/3747, 6-8=-9201/3747, 8-9=-6336/2453, 9-10=-6988/2665, 10-11=-7670/2673
BOT CHORD 21-22=-42/257, 19-21=-3143/7953, 18-19=-3143/7953, 16-18=-3379/8701, 14-16=-3379/8701, 13-14=-2344/6831, 11-13=-2344/6831
WEBS 2-21=-2331/5696, 3-21=-889/696, 5-21=-3682/1509, 5-19=0/594, 5-18=-570/1486, 6-18=-843/647, 8-18=-304/653, 8-16=0/587, 8-14=-2877/1287, 9-14=-653/2309, 10-14=-643/135, 10-13=-29/392

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 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
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=1568, 11=1223.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 151 lb down and 152 lb up at 0-10-12, 149 lb down and 154 lb up at 2-10-12, 149 lb down and 154 lb up at 4-10-12, 149 lb down and 154 lb up at 6-10-12, 149 lb down and 154 lb up at 8-10-12, 149 lb down and 154 lb up at 10-10-12, 149 lb down and 154 lb up at 12-10-12, 149 lb down and 154 lb up at 14-10-12, 149 lb down and 154 lb up at 16-10-12, 149 lb down and 154 lb up at 18-10-12, 149 lb down and 154 lb up at 20-10-12, 149 lb down and 154 lb up at 22-10-12, 149 lb down and 154 lb up at 24-10-12, 149 lb down and 154 lb up at 26-10-12, 149 lb down and 154 lb up at 28-10-12, 149 lb down and 154 lb up at 30-10-12, 149 lb down and 154 lb up at 32-10-12, 149 lb down and 154 lb up at 34-10-12, 149 lb down and 154 lb up at 36-10-12, 149 lb down and 154 lb up at 38-10-12, and 149 lb down and 154 lb up at 40-10-12, and 145 lb down and 154 lb up at 41-9-10 on top chord, and 65 lb down at 0-10-12, 63 lb down at 2-10-12, 63 lb down at 4-10-12, 63 lb down at 6-10-12, 63 lb down at 8-10-12, 63 lb down at 10-10-12, 63 lb down at 12-10-12, 63 lb down at 14-10-12, 63 lb down at 16-10-12, 63 lb down at 18-10-12, 63 lb down at 20-10-12, 63 lb down at 22-10-12, 63 lb down at 24-10-12, 63 lb down at 26-10-12, 63 lb down at 28-10-12, 63 lb down at 30-10-12, 63 lb down at 32-10-12, 63 lb down at 34-10-12, 63 lb down at 36-10-12, 63 lb down at 38-10-12, 63 lb down at 40-10-12, 63 lb down at 41-8-14, 153 lb down and 86 lb up at 43-8-14, 121 lb down and 49 lb up at 45-8-14, and 90 lb down and 21 lb up at 47-8-14, and 241 lb down and 74 lb up at 49-8-14 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

Uniform Loads (plf)

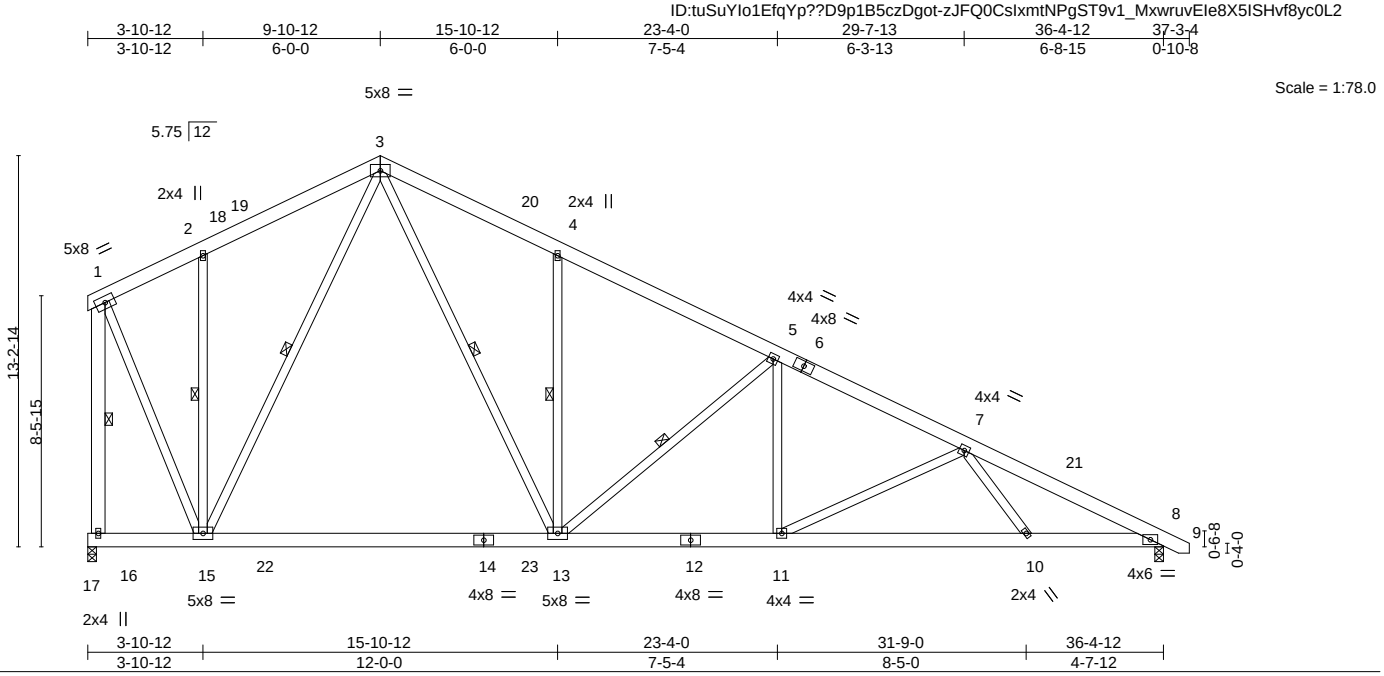
Vert: 1-2=-60, 2-9=-60, 9-12=-60, 11-23=-20

Concentrated Loads (lb)

Vert: 9=-90(F) 5=-90(F) 19=-32(F) 18=-32(F) 6=-90(F) 14=-32(F) 15=-32(F) 24=-93(F) 25=-90(F) 26=-90(F) 27=-90(F) 28=-90(F) 29=-90(F) 30=-90(F) 31=-90(F) 32=-90(F) 33=-90(F) 34=-90(F) 35=-90(F) 36=-90(F) 37=-90(F) 38=-90(F) 39=-90(F) 40=-90(F) 41=-90(F) 42=-90(F) 43=-33(F) 44=-32(F) 45=-32(F) 46=-32(F) 47=-32(F) 48=-32(F) 49=-32(F) 50=-32(F) 51=-32(F) 52=-32(F) 53=-32(F) 54=-32(F) 55=-32(F) 56=-32(F) 57=-32(F) 58=-32(F) 59=-32(F) 60=-32(F) 61=-153(F) 62=-121(F) 63=-90(F) 64=-241(F)

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	B1	COMMON	5	1	I54280516
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:43 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-zJFQ0CsIxmtNPgST9v1_MxwruvEIe8X5ISHvf8yc0L2



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)	-0.30	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.45	13-15	>962	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	11	>999	240	Weight: 320 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-16: 2x6 SP No.1

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

REACTIONS. (size) 16=0-3-8, 8=0-3-8
Max Horz 16=-329(LC 13)
Max Uplift 16=-97(LC 13), 8=-104(LC 13)
Max Grav 16=1582(LC 2), 8=1487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-684/164, 2-3=-722/293, 3-4=-1702/499, 4-5=-1714/356, 5-7=-2329/414, 7-8=-2882/421, 1-16=-1713/350
BOT CHORD 15-16=-147/327, 13-15=0/898, 11-13=-163/2044, 10-11=-324/2412, 8-10=-268/2516
WEBS 2-15=-335/228, 3-15=-671/152, 3-13=-318/1428, 4-13=-426/269, 5-13=-800/232, 5-11=-6/442, 7-11=-495/203, 1-15=-250/1488, 7-10=0/358

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) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 9-10-12, Exterior(2) 9-10-12 to 14-3-9, Interior(1) 14-3-9 to 37-1-1 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 8=104.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	B2	HIP	1	1	I54280517
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:44 2022 Page 1
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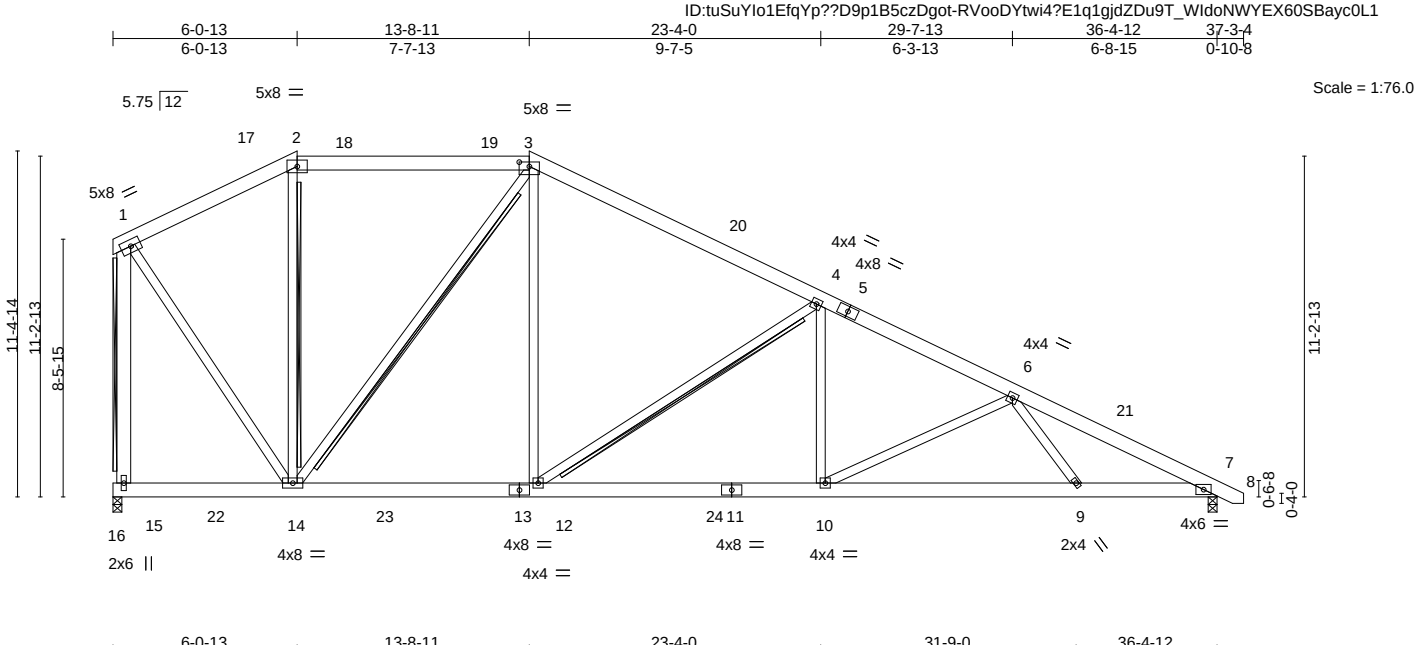


Plate Offsets (X,Y)-- [3:0-4-0,0-1-12]

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	0.35	Vert(LL)	-0.11	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.21	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06	10	>999	240	Weight: 303 lb	FT = 20%

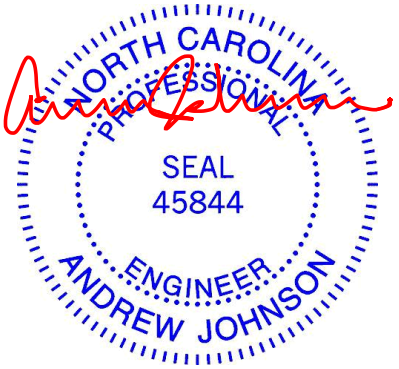
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 1-15, 4-12, 2-14, 3-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 15=0-3-8, 7=0-3-8
Max Horz 15=-306(LC 13)
Max Uplift 15=-58(LC 13), 7=-97(LC 13)
Max Grav 15=1612(LC 2), 7=1487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-834/275, 2-3=-707/302, 3-4=-1502/409, 4-6=-2355/498, 6-7=-2839/474, 1-15=-1479/456
BOT CHORD 14-15=-141/316, 12-14=-4/1248, 10-12=-264/2077, 9-10=-387/2394, 7-9=-340/2476
WEBS 6-10=-441/183, 6-9=0/325, 4-10=0/516, 1-14=-294/1233, 4-12=-984/312, 3-12=-67/922, 3-14=-949/262

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) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 6-0-13, Exterior(2) 6-0-13 to 12-3-8, Interior(1) 12-3-8 to 13-8-11, Exterior(2) 13-8-11 to 19-11-5, Interior(1) 19-11-5 to 37-1-1 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 7.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	B3	HALF HIP	1	1	I54280518
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:45 2022 Page 1
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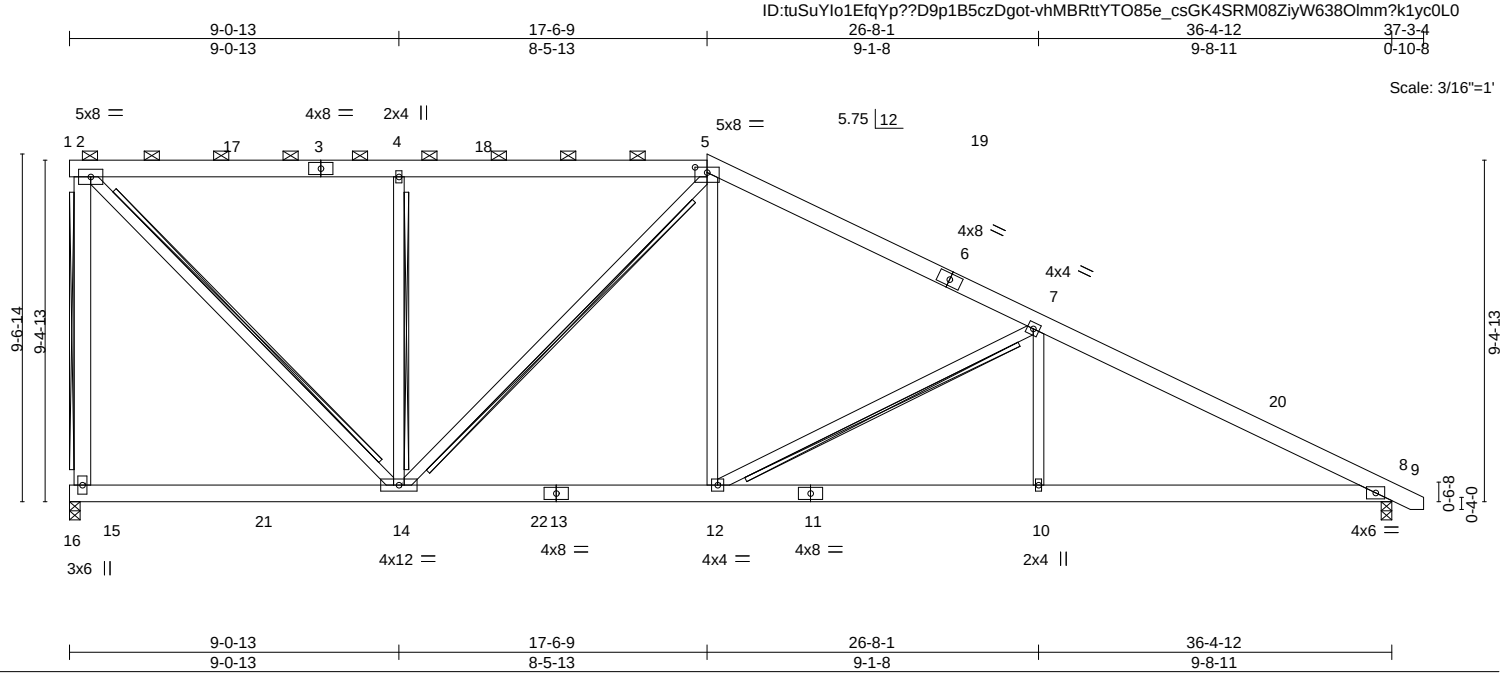


Plate Offsets (X,Y)-- [5:0-4-0,0-1-12]

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	0.40	Vert(LL)	-0.10	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.18	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06	8-10	>999	240	Weight: 279 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-15, 2-14, 5-14, 7-12, 4-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 15=0-3-8, 8=0-3-8
Max Horz 15=-299(LC 13)
Max Uplift 15=-145(LC 8), 8=-80(LC 13)
Max Grav 15=1614(LC 2), 8=1487(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-1378/448, 2-4=-1170/306, 4-5=-1173/308, 5-7=-1785/408, 7-8=-2648/498
BOT CHORD 14-15=-145/372, 12-14=-63/1503, 10-12=-339/2278, 8-10=-339/2278
WEBS 2-14=-428/1629, 5-14=-498/199, 5-12=-45/691, 7-12=-916/311, 7-10=0/409, 4-14=-600/301

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 17-6-9, Exterior(2) 17-6-9 to 23-9-4, Interior(1) 23-9-4 to 37-1-1 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 15=145.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

September 20,2022

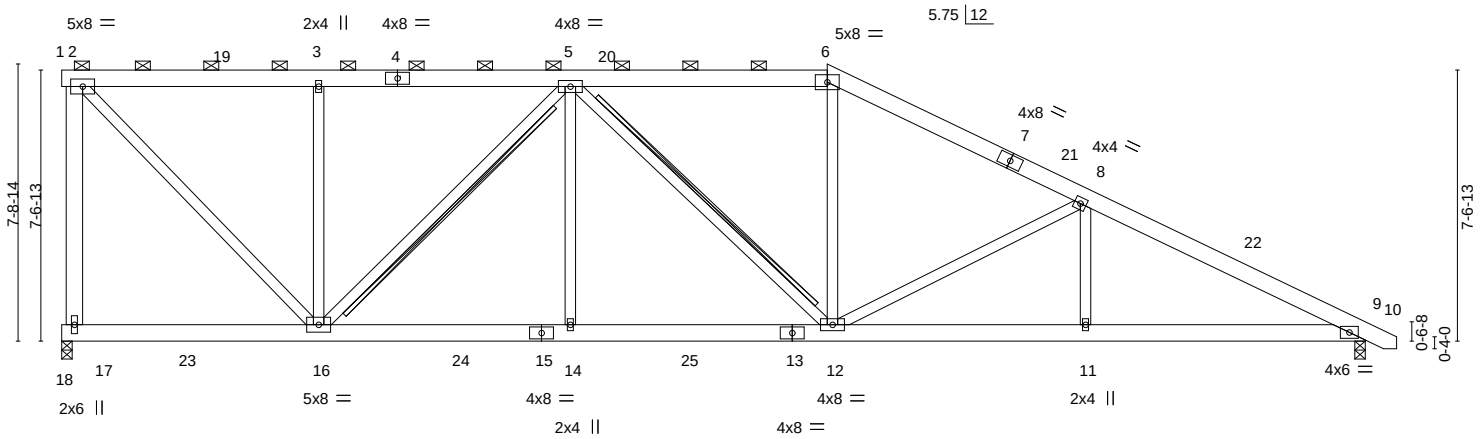
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	B4	HALF HIP	1	1	I54280519
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:47 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-r4UxrZvp??OpuImFOl6wWn5QfWftavQgD4F6ovyc0L_

7-2-1	14-2-7	21-4-8	28-7-0	36-4-12	37-3-4
7-2-1	7-0-5	7-2-1	7-2-9	7-9-12	0-10-8

Scale: 3/16"=1'



7-2-1	14-2-7	21-4-8	28-7-0	36-4-12
7-2-1	7-0-5	7-2-1	7-2-9	7-9-12

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	0.68	Vert(LL)	-0.09	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.40	Vert(CT)	-0.18	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.73	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.05	12	>999	240	Weight: 280 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-7 max.): 1-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-16, 5-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 17=0-3-8, 9=0-3-8
Max Horz 17=-240(LC 13)
Max Uplift 17=-152(LC 8), 9=-69(LC 13)
Max Grav 17=1590(LC 2), 9=1487(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1410/417, 2-3=-1214/295, 3-5=-1214/295, 5-6=-1796/522, 6-8=-2079/508, 8-9=-2731/584
BOT CHORD 16-17=-114/305, 14-16=-156/1886, 12-14=-156/1886, 11-12=-435/2366, 9-11=-435/2366
WEBS 2-16=-415/1711, 3-16=-431/219, 5-16=-956/248, 5-14=0/462, 5-12=-265/96, 6-12=-3/534, 8-12=-667/258, 8-11=0/312

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 21-4-8, Exterior(2) 21-4-8 to 27-7-3, Interior(1) 27-7-3 to 37-1-1 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 17=152.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

September 20,2022

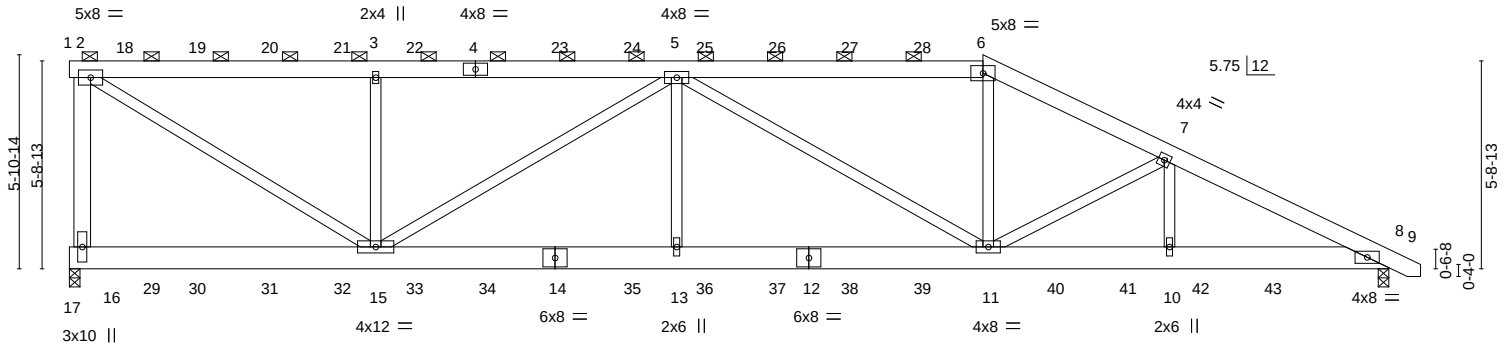
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	B5	HALF HIP GIRDER	1	2	I54280520
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:49 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-oTchGFw3XceX7bwdVA8ObCAsEJLw2srzgOkDsoyc0Ky

8-5-6	16-9-0	25-2-6	30-4-2	36-4-12	37-3-4
8-5-6	8-3-10	8-5-6	5-1-12	6-0-10	0-10-8

Scale: 3/16"=1'



8-5-6	16-9-0	25-2-6	30-4-2	36-4-12
8-5-6	8-3-10	8-5-6	5-1-12	6-0-10

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	0.29	Vert(LL)	-0.09	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.18	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	13	>999	240	Weight: 575 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2 *Except*
2-16: 2x6 SP No.1

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.): 1-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-8, 8=0-3-8
Max Horz 16=-179(LC 9)
Max Uplift 16=-1030(LC 4), 8=-744(LC 9)
Max Grav 16=2569(LC 1), 8=2573(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-2403/1087, 2-3=-3200/1274, 3-5=-3200/1274, 5-6=-3819/1388, 6-7=-4290/1502, 7-8=-5005/1548
BOT CHORD 13-15=-1639/4521, 11-13=-1639/4521, 10-11=-1325/4427, 8-10=-1325/4427
WEBS 2-15=-1448/3676, 3-15=-883/687, 5-15=-1559/583, 5-13=0/598, 5-11=-946/485, 6-11=-201/1173, 7-11=-669/156, 7-10=-53/419

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=1030, 8=744.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 20,2022

Continued on page 2

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

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 149 lb down and 154 lb up at 1-5-8, 149 lb down and 154 lb up at 3-5-8, 149 lb down and 154 lb up at 5-5-8, 149 lb down and 154 lb up at 7-5-8, 149 lb down and 154 lb up at 9-5-8, 149 lb down and 154 lb up at 11-5-8, 149 lb down and 154 lb up at 13-5-8, 149 lb down and 154 lb up at 15-5-8, 149 lb down and 154 lb up at 17-5-8, 149 lb down and 154 lb up at 19-5-8, 149 lb down and 154 lb up at 21-5-8, and 149 lb down and 154 lb up at 23-5-8, and 145 lb down and 154 lb up at 25-2-6 on top chord, and 63 lb down at 1-5-8, 63 lb down at 3-5-8, 63 lb down at 5-5-8, 63 lb down at 7-5-8, 63 lb down at 9-5-8, 63 lb down at 11-5-8, 63 lb down at 13-5-8, 63 lb down at 15-5-8, 63 lb down at 17-5-8, 63 lb down at 19-5-8, 63 lb down at 21-5-8, 63 lb down at 23-5-8, 63 lb down at 25-1-10, 153 lb down and 86 lb up at 27-1-10, 121 lb down and 49 lb up at 29-1-10, and 90 lb down and 21 lb up at 31-1-10, and 241 lb down and 74 lb up at 33-1-10 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
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-6=-60, 6-9=-60, 8-17=-20
   Concentrated Loads (lb)
   Vert: 4=-90(B) 14=-32(B) 11=-32(B) 6=-90(B) 18=-90(B) 19=-90(B) 20=-90(B) 21=-90(B) 22=-90(B) 23=-90(B) 24=-90(B) 25=-90(B) 26=-90(B) 27=-90(B) 28=-90(B) 29=-32(B) 30=-32(B) 31=-32(B) 32=-32(B) 33=-32(B) 34=-32(B) 35=-32(B) 36=-32(B) 37=-32(B) 38=-32(B) 39=-32(B) 40=-153(B) 41=-121(B) 42=-90(B) 43=-241(B)

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	C1	COMMON	1	1	I54280521
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:50 2022 Page 1
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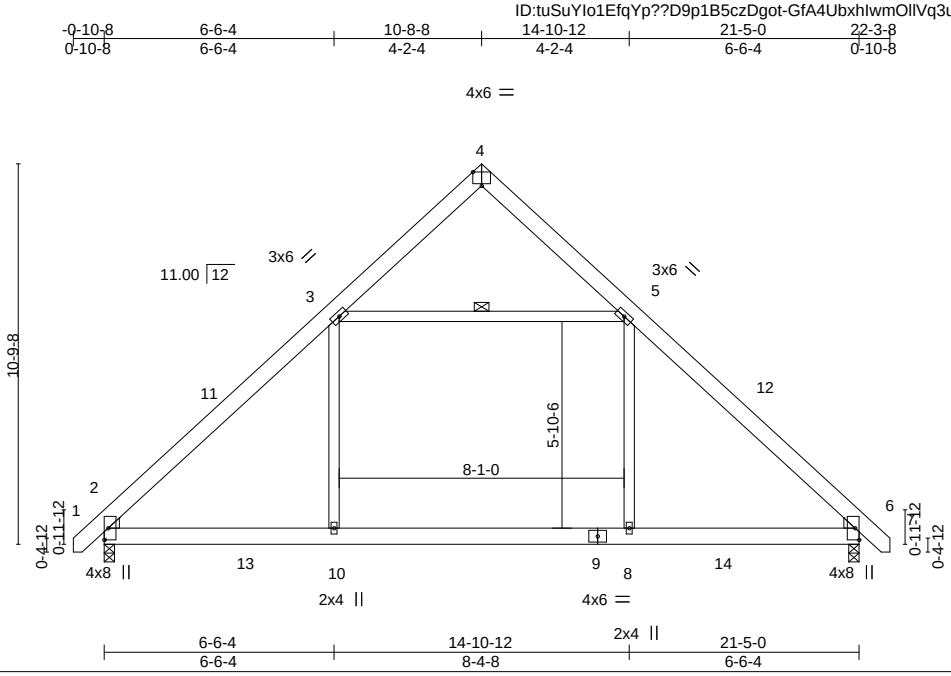


Plate Offsets (X,Y)-- [4:0-3-0,Edge]

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	0.24	Vert(LL)	-0.10	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	2-10	>999	240	Weight: 156 lb	FT = 20%

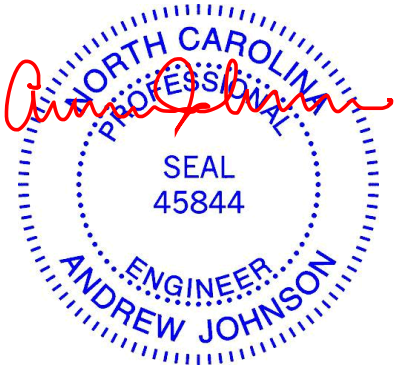
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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.
WEBS 1 Row at midpt 3-5

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-252(LC 10)
Max Uplift 2=-42(LC 12), 6=-42(LC 13)
Max Grav 2=1118(LC 19), 6=1118(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1430/225, 5-6=-1429/225
BOT CHORD 2-10=-3/968, 8-10=-3/968, 6-8=-3/967
WEBS 3-10=0/585, 5-8=0/585, 3-5=-806/318

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) -0-9-0 to 3-7-12, Interior(1) 3-7-12 to 10-8-8, Exterior(2) 10-8-8 to 14-10-14, Interior(1) 14-10-14 to 22-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 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.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	C1GE	GABLE	1	1	I54280522
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:52 2022 Page 1
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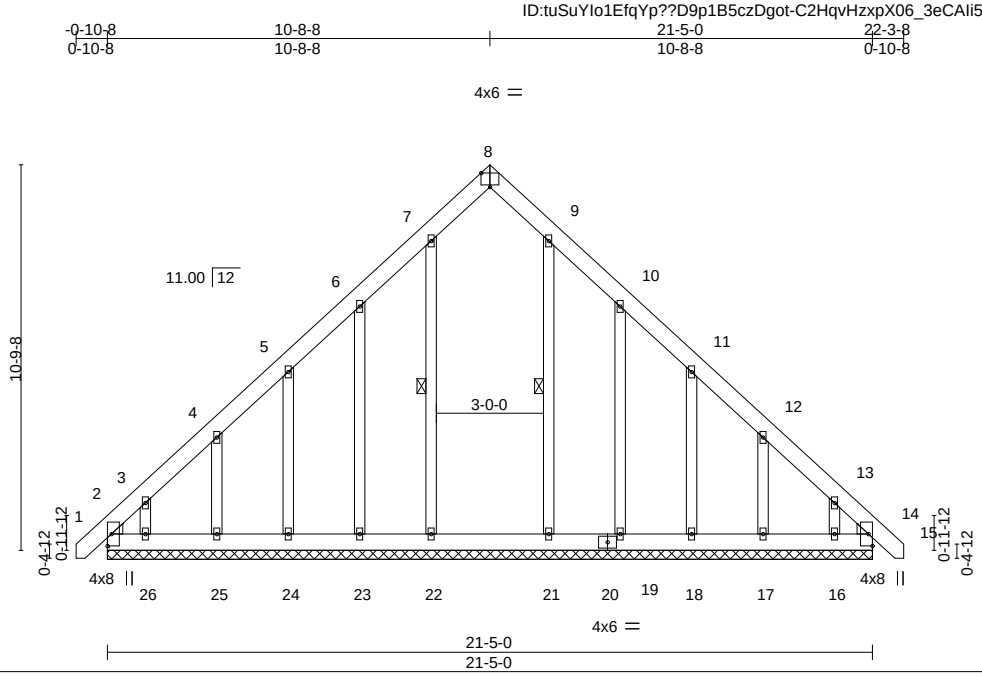

Plate Offsets (X,Y)-- [8:0-3-0,Edge]

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	0.05	Vert(LL)	0.00	14	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 195 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-22, 9-21

REACTIONS. All bearings 21-5-0.
(lb) - Max Horz 2=-315(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 21 except 2=-151(LC 10), 14=-119(LC 11), 23=-152(LC 12), 24=-122(LC 12), 25=-134(LC 12), 26=-232(LC 12), 19=-157(LC 13), 18=-122(LC 13), 17=-133(LC 13), 16=-226(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 19, 18, 17, 16 except 2=414(LC 12), 14=392(LC 13), 22=298(LC 19), 21=275(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-549/352, 3-4=-373/225, 12-13=-350/225, 13-14=-523/354
BOT CHORD 2-26=-241/366, 25-26=-243/366, 24-25=-243/366, 23-24=-243/367, 22-23=-244/367, 21-22=-244/367, 19-21=-244/367, 18-19=-243/366, 17-18=-243/366, 16-17=-243/366, 14-16=-241/364

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 Corner(3) -0-9-0 to 3-7-12, Exterior(2) 3-7-12 to 10-8-8, Corner(3) 10-8-8 to 15-1-5, Exterior(2) 15-1-5 to 22-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 21 except (jt=lb) 2=151, 14=119, 23=152, 24=122, 25=134, 26=232, 19=157, 18=122, 17=133, 16=226.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	C2	COMMON	9	1	I54280523
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:53 2022 Page 1
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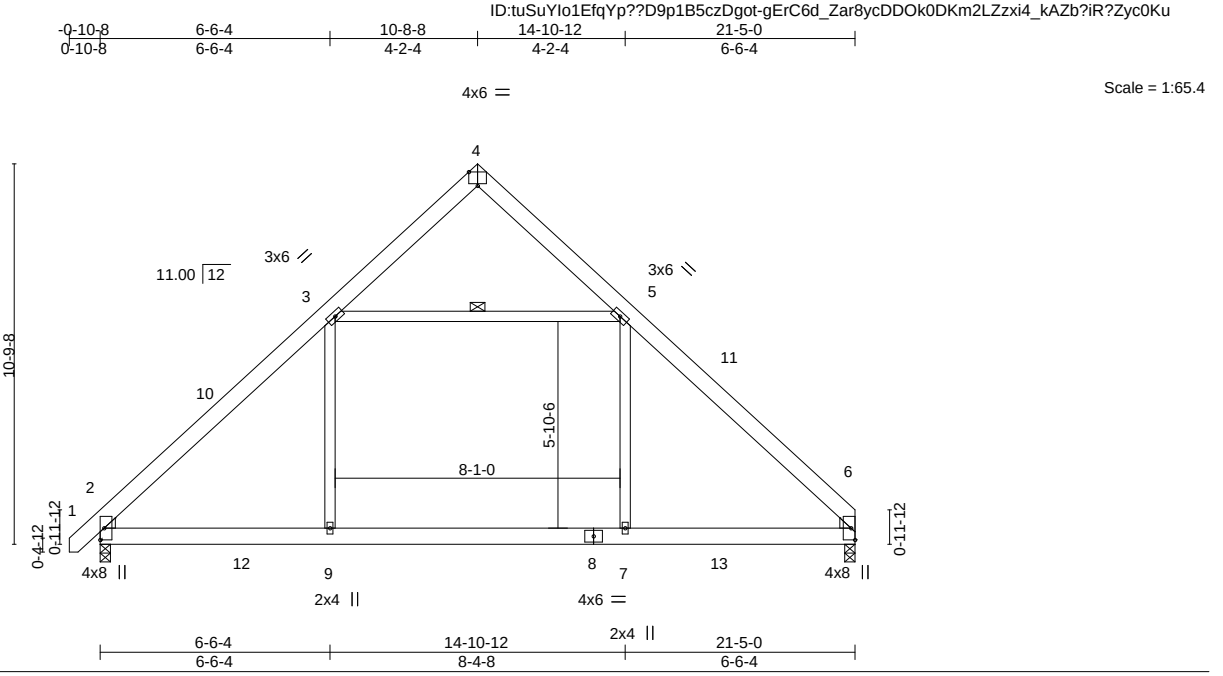

Plate Offsets (X,Y)-- [4:0-3-0,Edge]

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	0.24	Vert(LL)	-0.10	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.12	2-9	>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
WEDGE
Left: 2x4 SP No.2 , 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.
WEBS 1 Row at midpt 3-5

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=250(LC 9)
Max Uplift 2=-42(LC 12), 6=-29(LC 13)
Max Grav 2=1119(LC 19), 6=1067(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1433/226, 5-6=-1429/223
BOT CHORD 2-9=-10/966, 7-9=-10/967, 6-7=-10/966
WEBS 3-9=0/586, 5-7=0/584, 3-5=-811/330

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) -0-9-0 to 3-7-12, Interior(1) 3-7-12 to 10-8-8, Exterior(2) 10-8-8 to 14-10-14, Interior(1) 14-10-14 to 21-3-4 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, 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.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	D1	COMMON	2	1	I54280524
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:54 2022 Page 1
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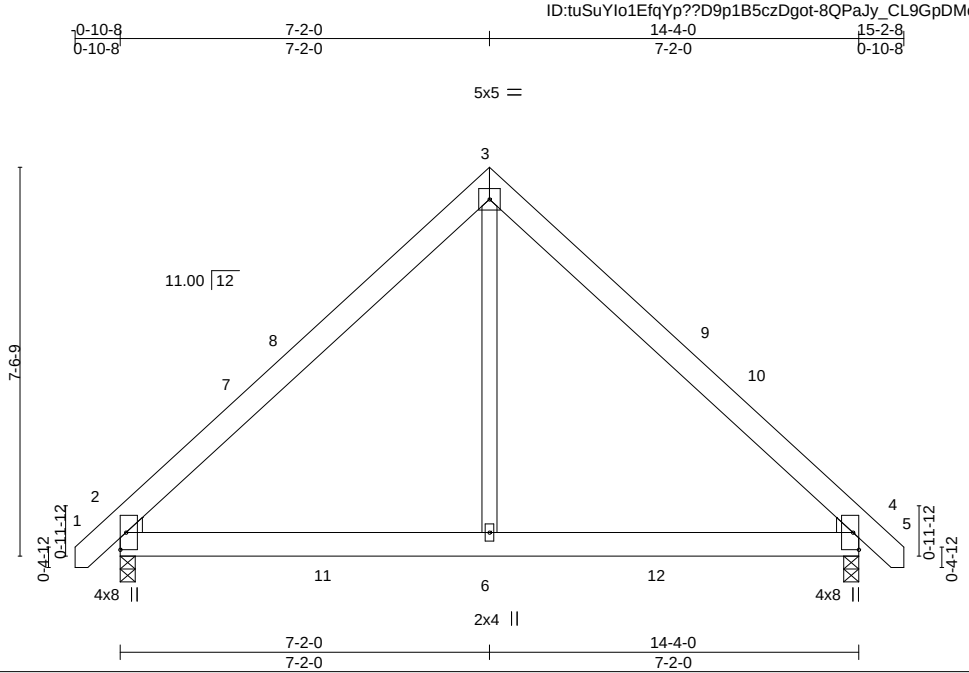

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	4-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	4-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	2-6	>999	240	Weight: 96 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , 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, 4=0-3-8
Max Horz 2=-174(LC 10)
Max Uplift 2=-31(LC 12), 4=-31(LC 13)
Max Grav 2=702(LC 19), 4=702(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-758/170, 3-4=-758/170
BOT CHORD 2-6=0/485, 4-6=0/485
WEBS 3-6=0/521

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) -0-9-0 to 3-7-12, Interior(1) 3-7-12 to 7-2-0, Exterior(2) 7-2-0 to 11-6-13, Interior(1) 11-6-13 to 15-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 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, 4.

September 20,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	D1GE	GABLE	1	1	I54280525
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:55 2022 Page 1
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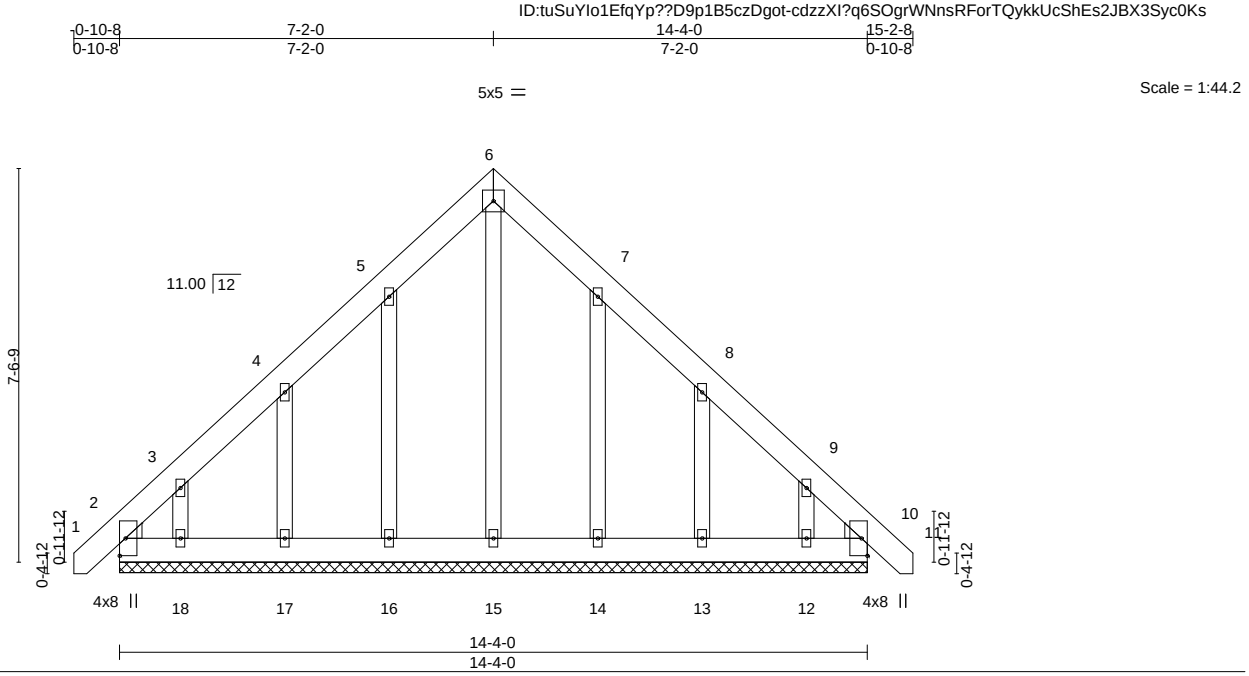


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%

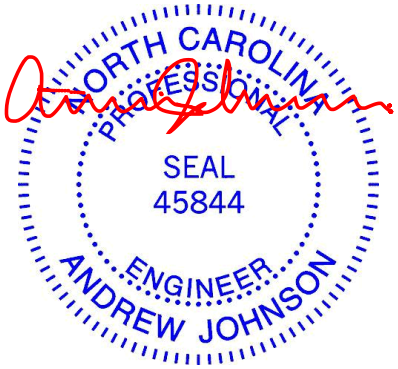
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. All bearings 14-4-0.
(lb) - Max Horz 2=-218(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-108(LC 12), 17=-139(LC 12), 18=-168(LC 12), 14=-104(LC 13), 13=-140(LC 13), 12=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-283/177

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 Corner(3) -0-9-0 to 3-7-12, Exterior(2) 3-7-12 to 7-2-0, Corner(3) 7-2-0 to 11-6-13, Exterior(2) 11-6-13 to 15-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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 except (jt=lb) 16=108, 17=139, 18=168, 14=104, 13=140, 12=160.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	D2	QUEENPOST	1	2	I54280526

Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:56 2022 Page 1

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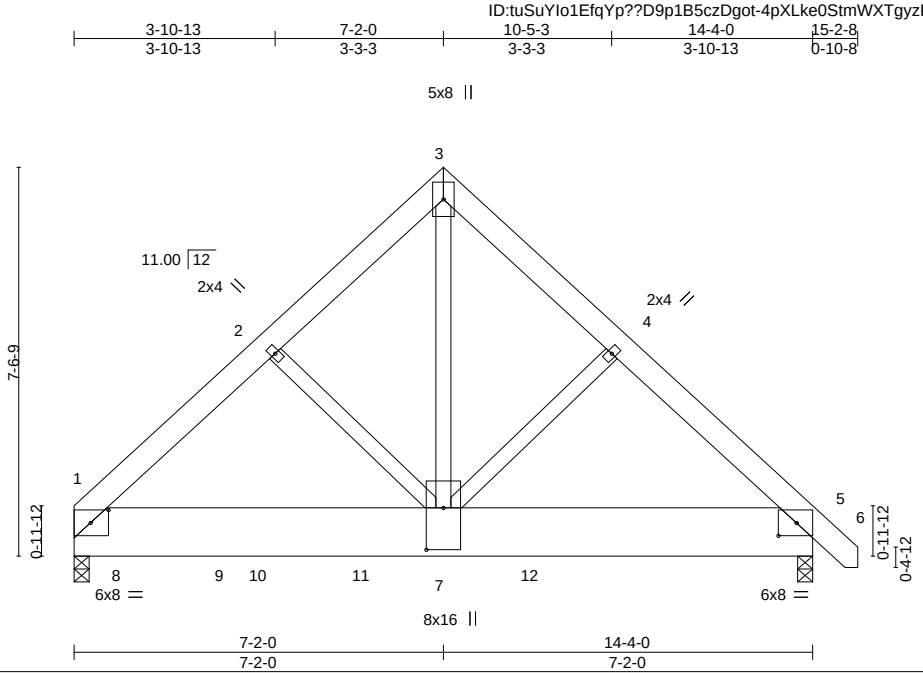

Plate Offsets (X,Y)-- [1:0-4-3,0-3-0], [5:0-4-3,0-3-0], [7:0-9-12,0-4-0]

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	0.25	Vert(LL)	-0.06	1-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.13	1-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	1-7	>999	240	Weight: 280 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x12 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
3-7: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8 (req. 0-3-15), 5=0-3-8
Max Horz 1=-170(LC 25)
Max Uplift 1=-1034(LC 8), 5=-1144(LC 9)
Max Grav 1=9570(LC 1), 5=5828(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7432/1232, 2-3=-7286/1263, 3-4=-7274/1266, 4-5=-7429/1235
BOT CHORD 1-7=-863/5222, 5-7=-823/5138
WEBS 2-7=-213/353, 3-7=-1614/9432, 4-7=-178/441

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: 2x12 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1034, 5=1144.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2132 lb down and 147 lb up at 0-10-12, 2180 lb down and 130 lb up at 2-10-12, 2099 lb down and 123 lb up at 3-6-12, 2091 lb down and 97 lb up at 5-6-12, and 2091 lb down and 88 lb up at 6-10-12, and 3763 lb down and 1588 lb up at 8-10-0 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

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

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-5=-20, 1-3=-60, 3-6=-60

Concentrated Loads (lb)

Vert: 7=-2091(B) 8=-2092(B) 9=-2091(B) 10=-2091(B) 11=-2091(B) 12=-3763(B)

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	J03	JACK-OPEN	6	1	I54280527
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:57 2022 Page 1
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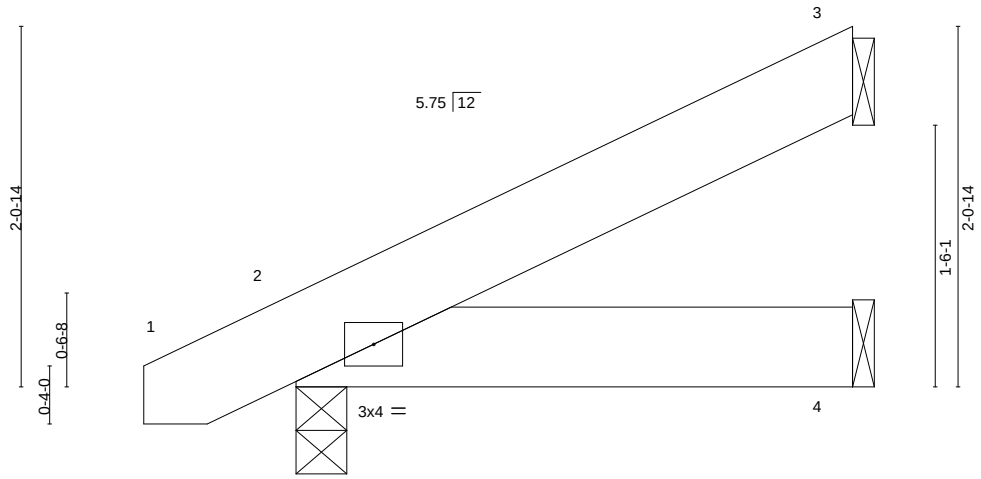
-0-10-8 3-2-6
0-10-8 3-2-6

Scale = 1:13.2



3-2-6
3-2-6

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	0.04	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	240		
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		Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 20%

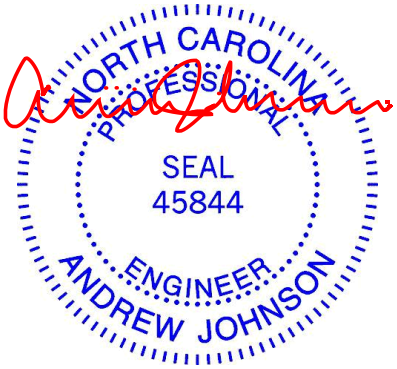
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=58(LC 12)
Max Uplift 3=-42(LC 12), 2=-13(LC 12)
Max Grav 3=83(LC 1), 2=177(LC 1), 4=60(LC 3)

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) 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	J06A	JACK-OPEN	35	1	I54280528
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:57 2022 Page 1
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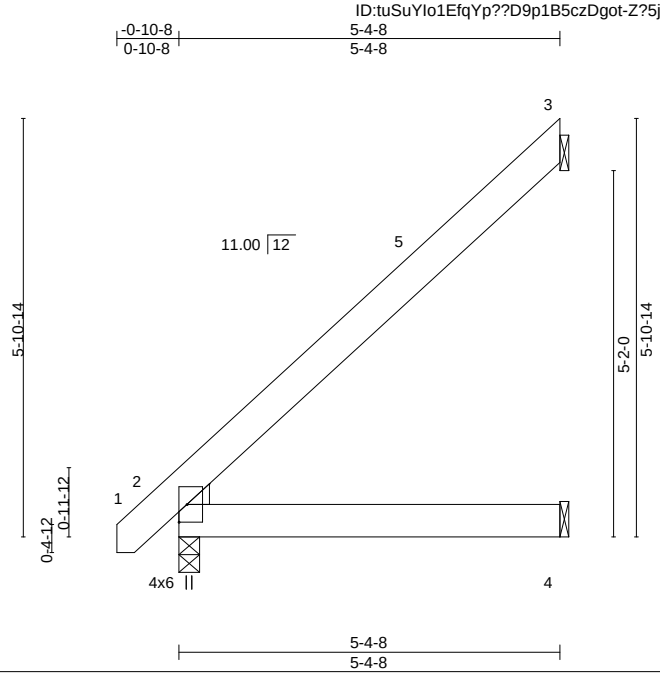

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 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) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 3=-141(LC 12)
Max Grav 3=183(LC 19), 2=265(LC 1), 4=103(LC 3)

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) and C-C Exterior(2) -0-9-0 to 3-7-12, Interior(1) 3-7-12 to 5-3-12 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=141.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	J06B	HALF HIP	2	1	I54280529
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:58 2022 Page 1
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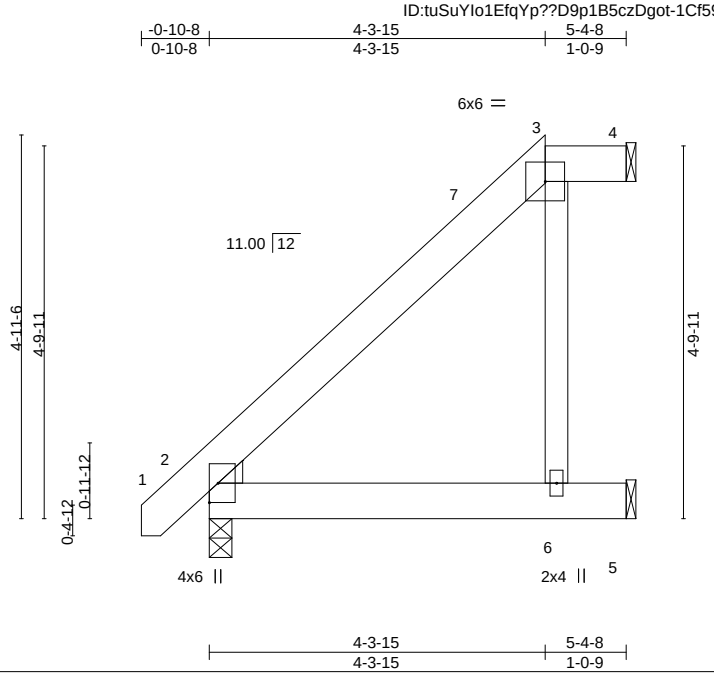


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P		Wind(LL)	0.01	2-6	>999	240	Weight: 38 lb	FT = 20%

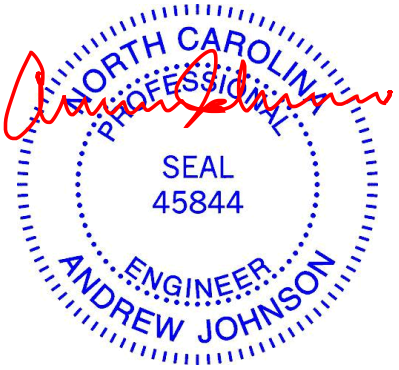
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 4=Mechanical
Max Horz 2=149(LC 12)
Max Uplift 5=-66(LC 12), 4=-10(LC 8)
Max Grav 2=265(LC 1), 5=185(LC 19), 4=29(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) -0-9-0 to 3-7-12, Interior(1) 3-7-12 to 4-3-15, Exterior(2) 4-3-15 to 5-3-12 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) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	J06C	HALF HIP	2	1	I54280530
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:16:59 2022 Page 1
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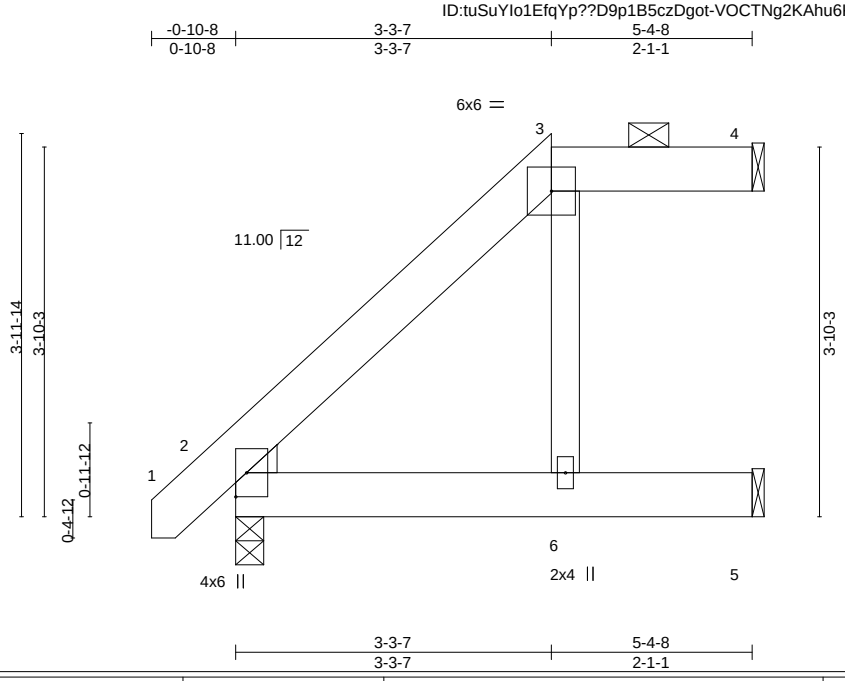


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P		Wind(LL)	0.02	2-6	>999	240	Weight: 36 lb	FT = 20%

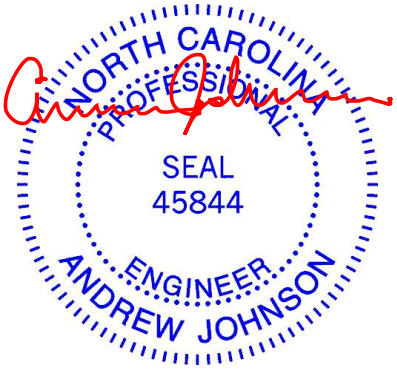
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 4=Mechanical
Max Horz 2=117(LC 12)
Max Uplift 5=-29(LC 12), 4=-21(LC 8)
Max Grav 2=265(LC 1), 5=141(LC 1), 4=61(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) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20,2022

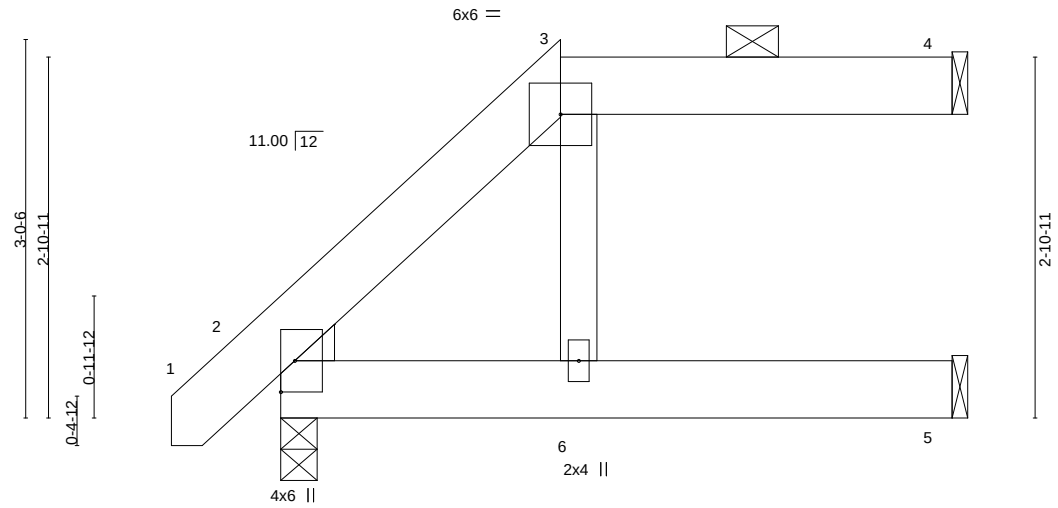
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	J06D	HALF HIP	2	1	I54280531
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:00 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-zamsa03yx?0zyHGle_rzYX7o5l9K7zVbCbuIlfyc0Kn

-0-10-8 2-2-14 5-4-8
0-10-8 2-2-14 3-1-10

Scale = 1:18.4



2-2-14 5-4-8
2-2-14 3-1-10

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)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P		Wind(LL)	0.02	6	>999	240	Weight: 34 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 4=Mechanical
Max Horz 2=86(LC 12)
Max Uplift 2=-6(LC 12), 5=-1(LC 12), 4=-32(LC 8)
Max Grav 2=265(LC 1), 5=123(LC 3), 4=92(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) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 4.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	J06E	HALF HIP GIRDER	2	1	I54280532
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:01 2022 Page 1
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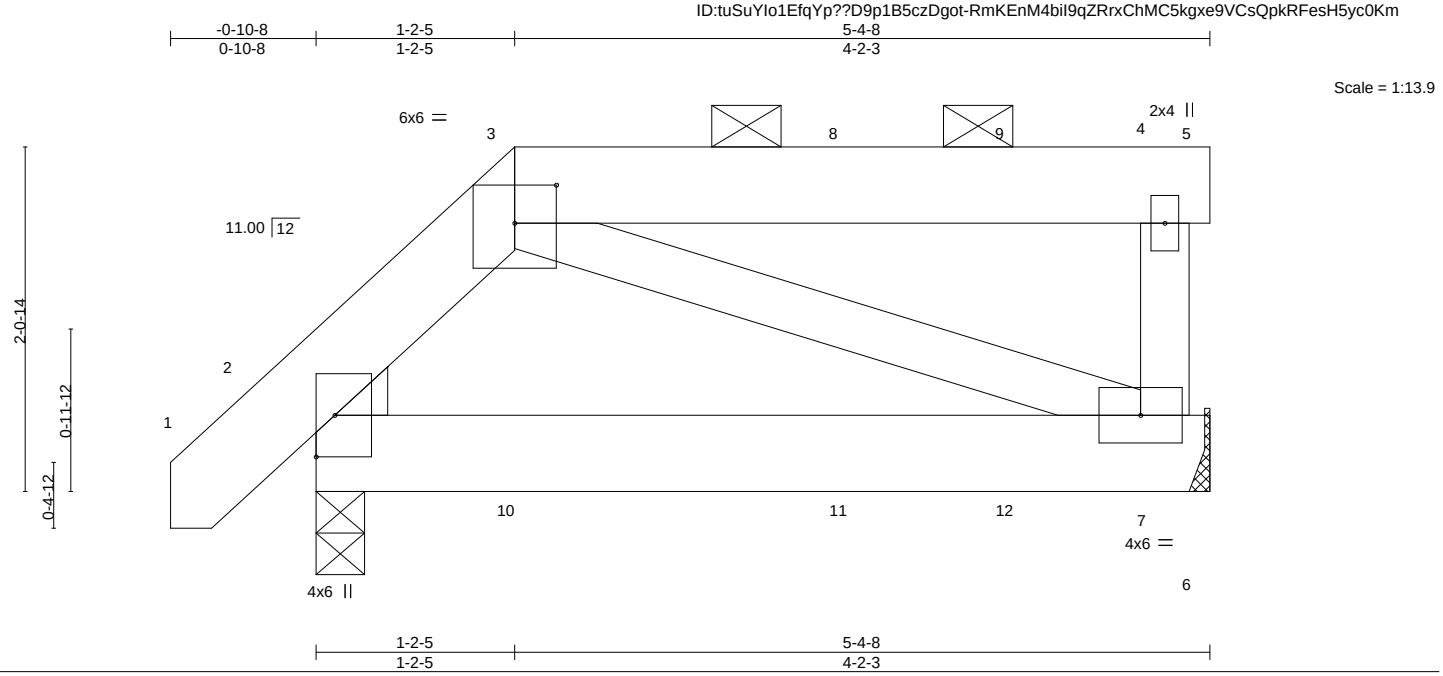

Plate Offsets (X,Y)-- [3:0-3-0,0-2-12]

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	0.13	Vert(LL)	-0.01	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 38 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=59(LC 23)
Max Uplift 7=-54(LC 5), 2=-41(LC 8)
Max Grav 7=261(LC 1), 2=301(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); Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 35 lb down and 55 lb up at 1-2-5, and 35 lb down and 51 lb up at 3-3-1, and 35 lb down and 51 lb up at 4-3-1 on top chord, and 20 lb down at 1-3-1, and 20 lb down at 3-3-1, and 20 lb down at 4-3-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-23(B) 8=-23(B) 9=-26(B) 10=-10(B) 11=-10(B) 12=-10(B)

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	LG	GABLE	1	1	I54280533
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:02 2022 Page 1
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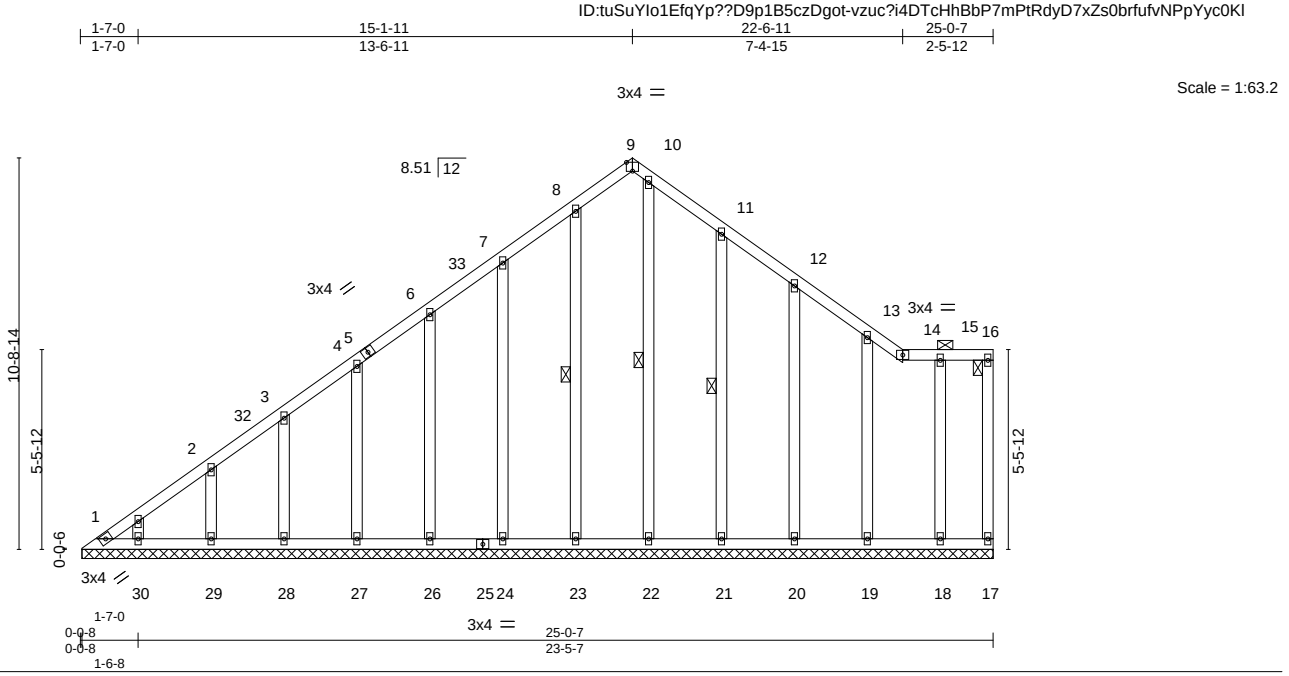


Plate Offsets (X,Y)-- [9:0-2-0,Edge]

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	0.10	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	0.18	Horz(CT)	0.00	17	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 192 lb	FT = 20%

LUMBER-

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

BRACING-

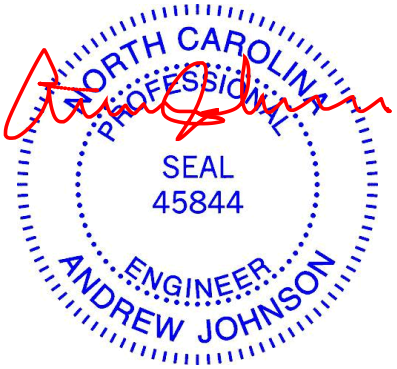
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-16.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 10-22, 8-23, 11-21

REACTIONS. All bearings 24-11-15.
(lb) - Max Horz 1=244(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 17, 1, 23, 24, 26, 27, 28, 29, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 17, 1, 22, 23, 24, 26, 27, 28, 29, 21, 20, 19, 18, 30

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-279/246

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) 0-5-9 to 4-10-6, Interior(1) 4-10-6 to 15-1-11, Exterior(2) 15-1-11 to 19-7-0, Interior(1) 19-7-0 to 24-10-11 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 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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) 17, 1, 23, 24, 26, 27, 28, 29, 21, 20, 19, 18.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	LGA	GABLE	1	1	I54280534
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:04 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-rL0MQN6T?DXPQvZWtqvviNITaMYL3kGB7DsWuQyc0Kj

14-11-6 29-10-13
14-11-6 14-11-7

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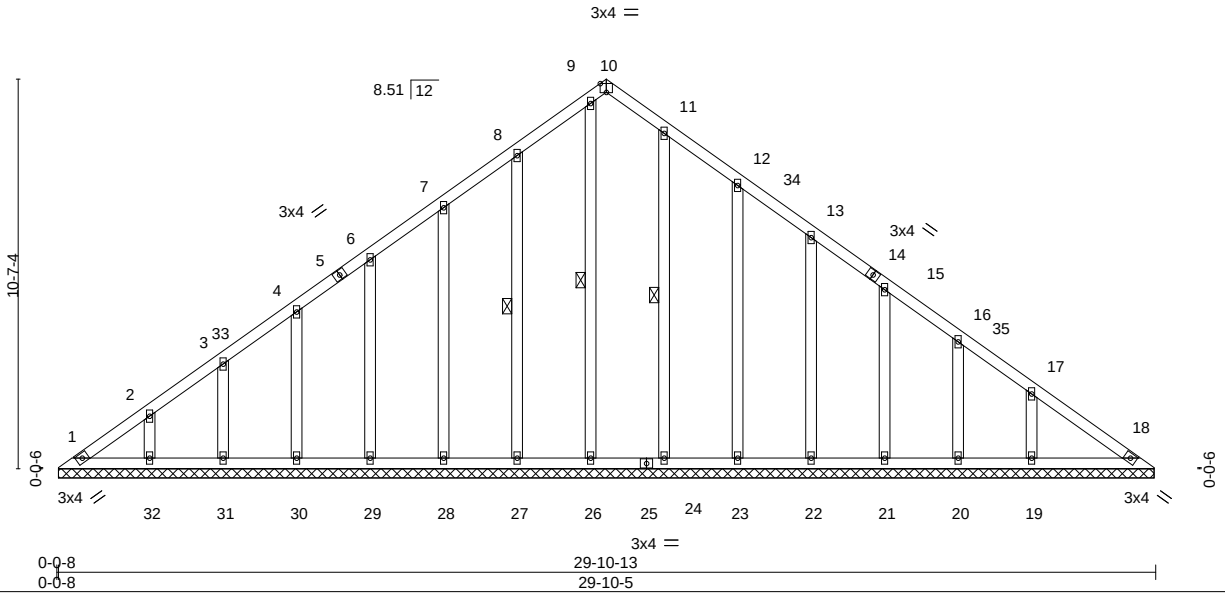

0-0-8 29-10-13
0-0-8 29-10-5

Plate Offsets (X,Y)-- [10:0-2-0,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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 203 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.
WEBS 1 Row at midpt 9-26, 8-27, 11-24

REACTIONS. All bearings 29-9-12.
(lb) - Max Horz 1=-246(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 27, 28, 29, 30, 31, 32, 23, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 1, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 18 except 19=260(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-251/209

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) 0-5-9 to 4-10-6, Interior(1) 4-10-6 to 14-11-6, Exterior(2) 14-11-6 to 19-4-3, Interior(1) 19-4-3 to 29-5-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 27, 28, 29, 30, 31, 32, 23, 22, 21, 20, 19.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V1	GABLE	1	1	I54280535
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:05 2022 Page 1
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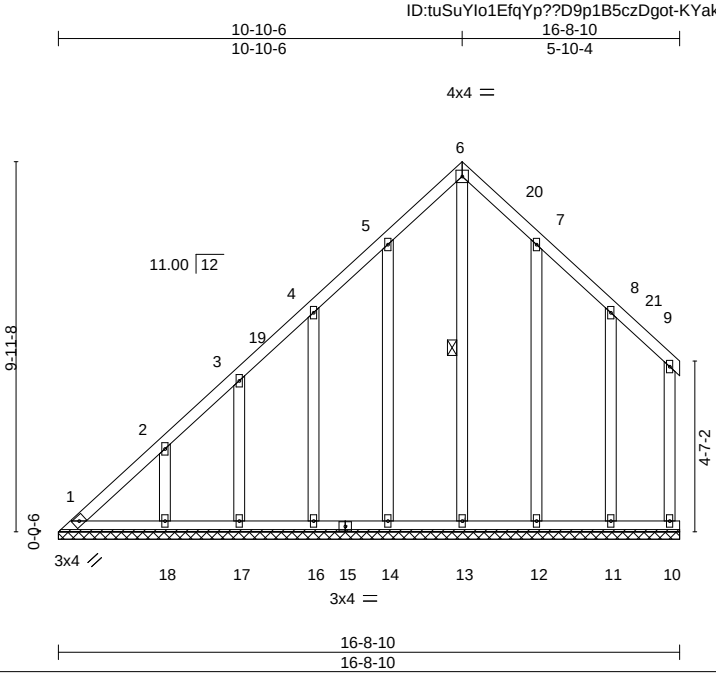

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 127 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-13

REACTIONS. All bearings 16-8-10.
(lb) - Max Horz 1=314(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 10, 13 except 1=-137(LC 10), 14=-122(LC 12), 16=-131(LC 12), 17=-112(LC 12), 18=-164(LC 12), 12=-114(LC 13), 11=-136(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 14, 16, 17, 18, 12, 11 except 13=333(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-370/305, 2-3=-259/245, 5-6=-222/290, 6-7=-222/270
WEBS 6-13=-309/165

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) 0-4-8 to 4-10-6, Interior(1) 4-10-6 to 10-10-6, Exterior(2) 10-10-6 to 15-3-3, Interior(1) 15-3-3 to 16-5-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 13 except (jt=lb) 1=137, 14=122, 16=131, 17=112, 18=164, 12=114, 11=136.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V2	VALLEY	1	1	I54280536
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:07 2022 Page 1
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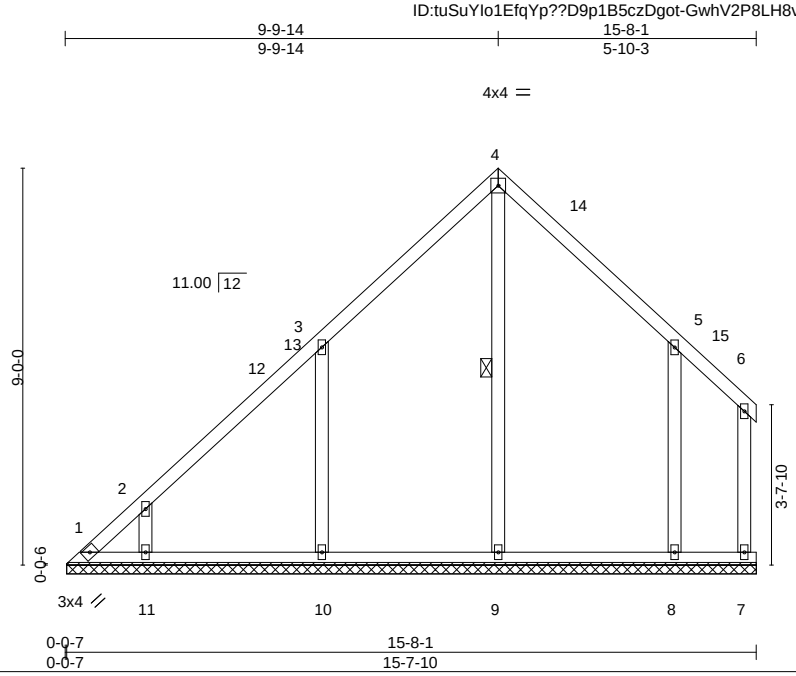


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%

LUMBER-

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

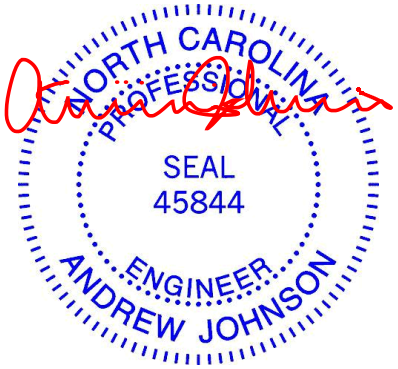
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-9

REACTIONS. All bearings 15-7-11.
(lb) - Max Horz 1=204(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-154(LC 10), 10=-162(LC 12), 11=-115(LC 12), 8=-145(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=540(LC 19), 10=482(LC 19), 11=274(LC 19), 8=443(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-272/251
WEBS 4-9=-258/38, 3-10=-382/282, 2-11=-290/239, 5-8=-325/257

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) 0-4-8 to 4-9-5, Interior(1) 4-9-5 to 9-9-14, Exterior(2) 9-9-14 to 14-2-10, Interior(1) 14-2-10 to 15-4-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=154, 10=162, 11=115, 8=145.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V3	VALLEY	1	1	I54280537
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:08 2022 Page 1
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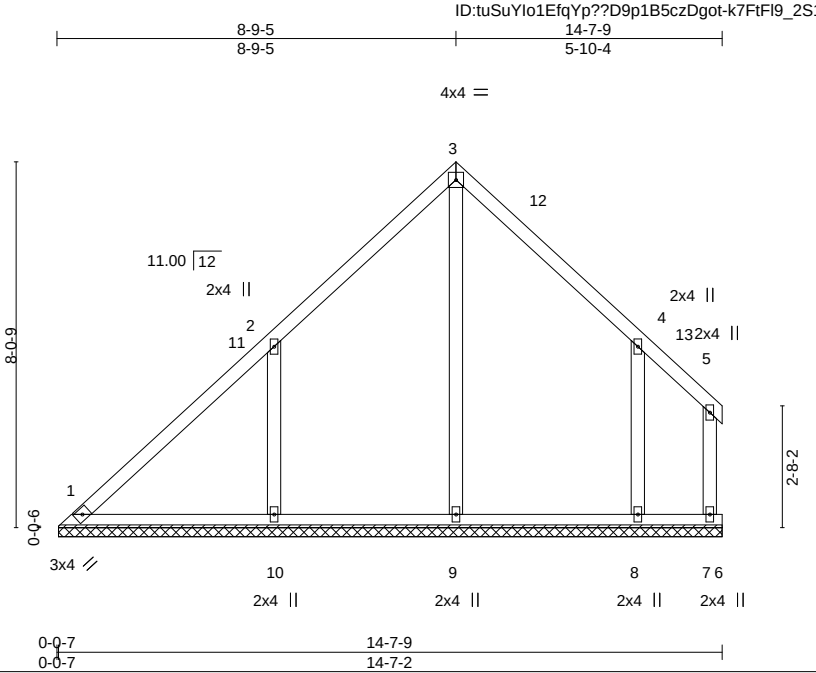


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

LUMBER-

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

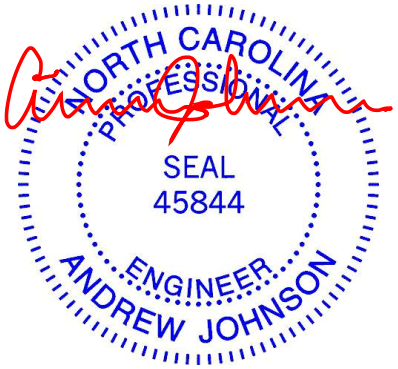
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 6-7.

REACTIONS. All bearings 14-7-2.
(lb) - Max Horz 1=182(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 10=-185(LC 12), 8=-151(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=523(LC 19), 10=537(LC 19), 8=448(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-10=-429/311, 4-8=-332/266

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) 0-4-8 to 4-9-5, Interior(1) 4-9-5 to 8-9-5, Exterior(2) 8-9-5 to 13-2-2, Interior(1) 13-2-2 to 14-4-5 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 10=185, 8=151.
6) Non Standard bearing condition. Review required.



September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V4	VALLEY	1	1	I54280538
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:09 2022 Page 1
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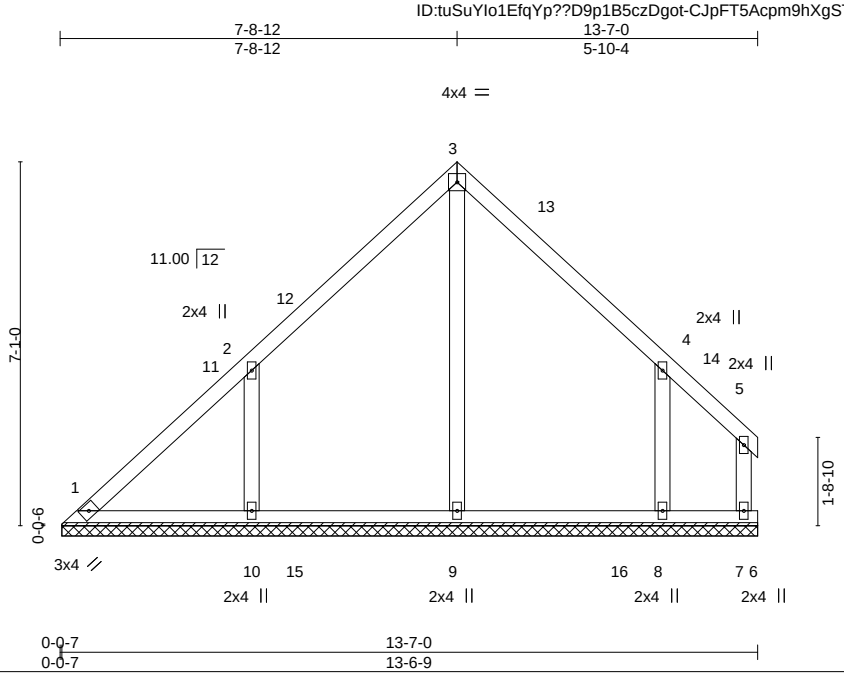

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 6-7.

REACTIONS. All bearings 13-6-9.
(lb) - Max Horz 1=160(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 10=-161(LC 12), 8=-159(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=520(LC 19), 10=442(LC 19), 8=408(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-10=-376/282, 4-8=-334/271

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) 0-4-8 to 4-9-5, Interior(1) 4-9-5 to 7-8-12, Exterior(2) 7-8-12 to 12-1-9, Interior(1) 12-1-9 to 13-3-12 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, 7 except (jt=lb) 10=161, 8=159.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V5	VALLEY	1	1	I54280539
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:10 2022 Page 1
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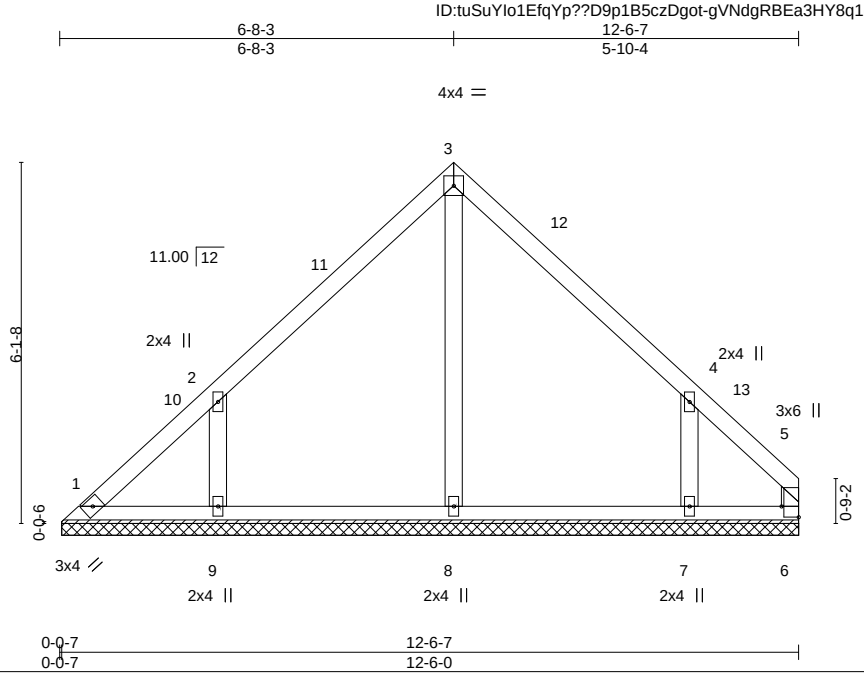

Plate Offsets (X,Y)-- [5:Edge,0-3-8]

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	0.13	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	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 12-6-1.
(lb) - Max Horz 1=138(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6 except 9=-144(LC 12), 7=-162(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=269(LC 19), 9=343(LC 19), 7=334(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-339/266, 4-7=-337/275

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) 0-4-8 to 4-9-5, Interior(1) 4-9-5 to 6-8-3, Exterior(2) 6-8-3 to 11-1-0, Interior(1) 11-1-0 to 12-4-11 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, 6 except (jt=lb) 9=144, 7=162.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V6	VALLEY	1	1	I54280540
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:11 2022 Page 1
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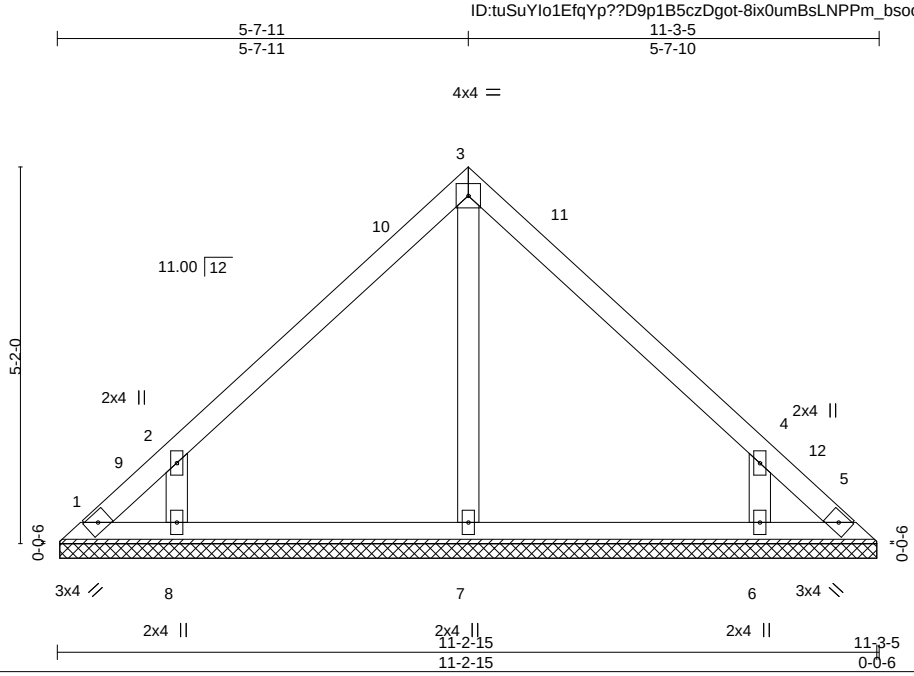


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

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	0.14	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: 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 11-2-8.
(lb) - Max Horz 1=-116(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-145(LC 12), 6=-145(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=337(LC 19), 6=337(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-346/284, 4-6=-346/285

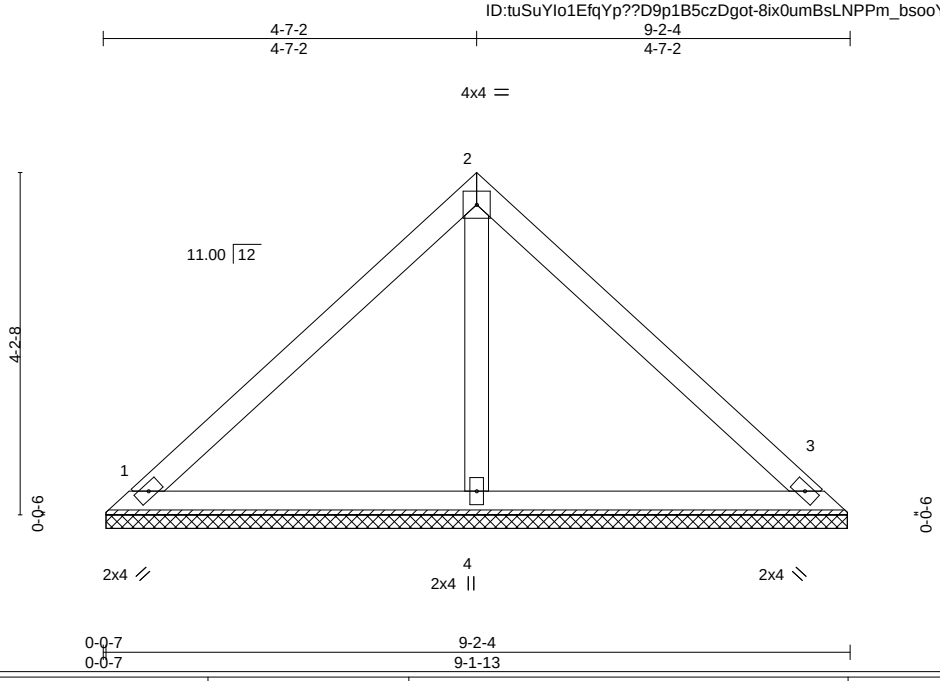
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-8 to 4-9-5, Interior(1) 4-9-5 to 5-7-11, Exterior(2) 5-7-11 to 10-0-7, Interior(1) 10-0-7 to 10-10-13 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=145, 6=145.

September 20,2022

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

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V7	VALLEY	1	1	I54280541
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:11 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-8ix0umBsLNPPm_bsooYYVr4fIBvdCx0Dkp3OdWyc0Kc



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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 36 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=9-1-7, 3=9-1-7, 4=9-1-7
Max Horz 1=93(LC 9)
Max Uplift 1=-23(LC 13), 3=-27(LC 13)
Max Grav 1=186(LC 1), 3=186(LC 1), 4=303(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.

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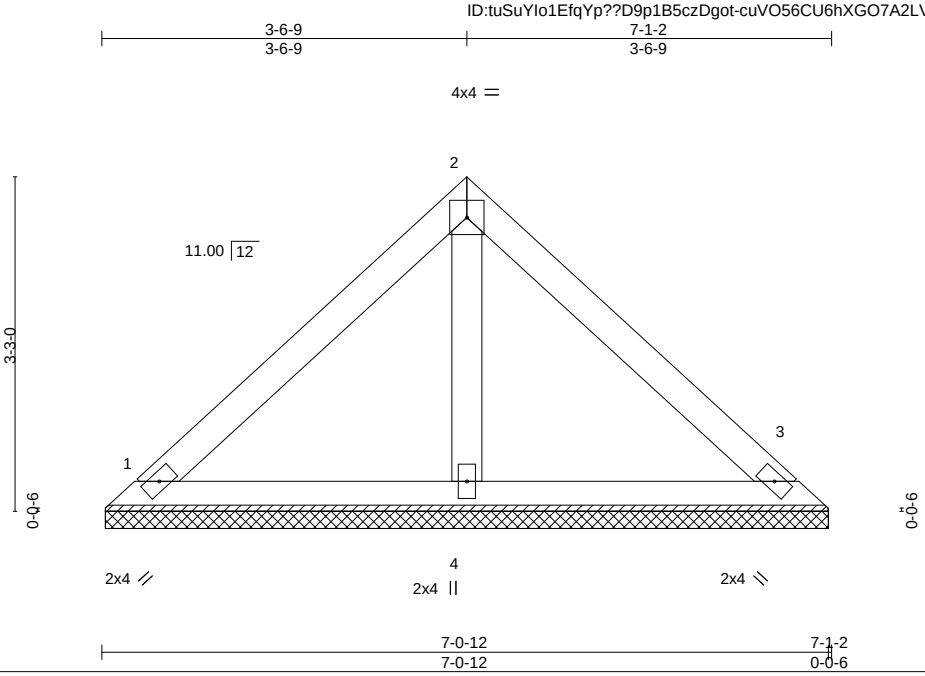
Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V8	VALLEY	1	1	I54280542
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:12 2022 Page 1
ID:tuSuYIo1EfqYp??D9p1B5czDgot-cuVO56CU6hXGO7A2LV3n13dqVbGlxOfMzToxAzyc0Kb



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)	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: 27 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-0-5, 3=7-0-5, 4=7-0-5
Max Horz 1=-70(LC 10)
Max Uplift 1=-25(LC 13), 3=-28(LC 13)
Max Grav 1=151(LC 1), 3=151(LC 1), 4=206(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.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V9	VALLEY	1	1	I54280543
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:13 2022 Page 1
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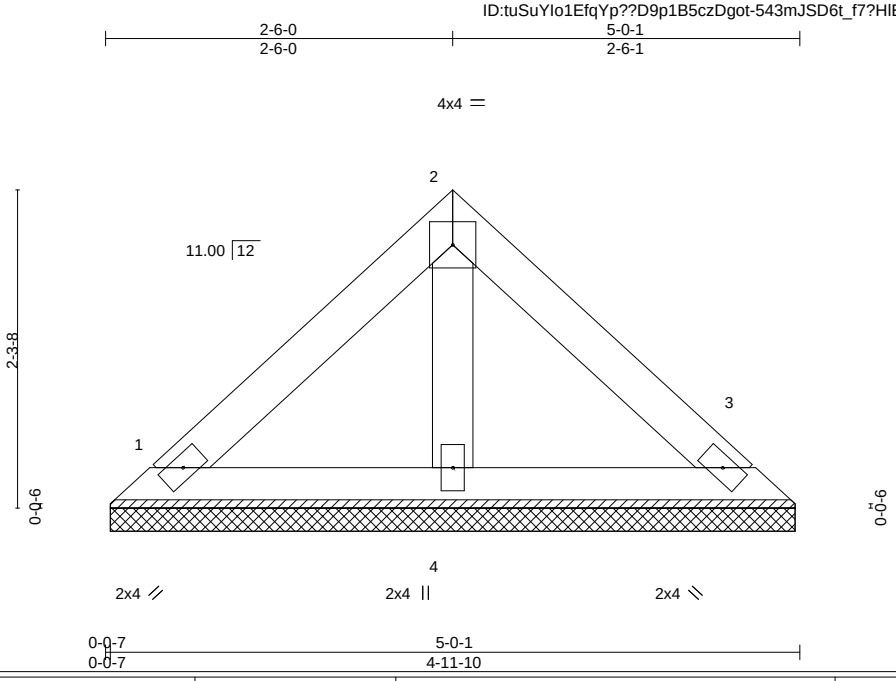


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

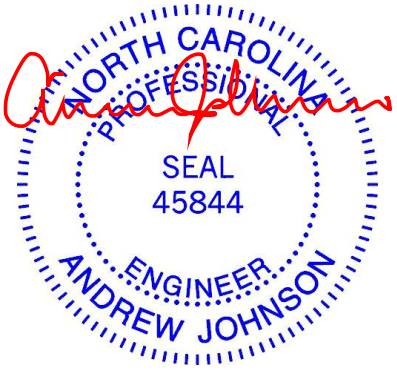
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-11-4, 3=4-11-4, 4=4-11-4
Max Horz 1=47(LC 9)
Max Uplift 1=-17(LC 13), 3=-19(LC 13)
Max Grav 1=101(LC 1), 3=101(LC 1), 4=138(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.



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Job	Truss	Truss Type	Qty	Ply	Wellco / 114 Hidden Lakes / Johnston
J0822-4264	V10	VALLEY	1	1	I54280544
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Sep 19 16:17:06 2022 Page 1
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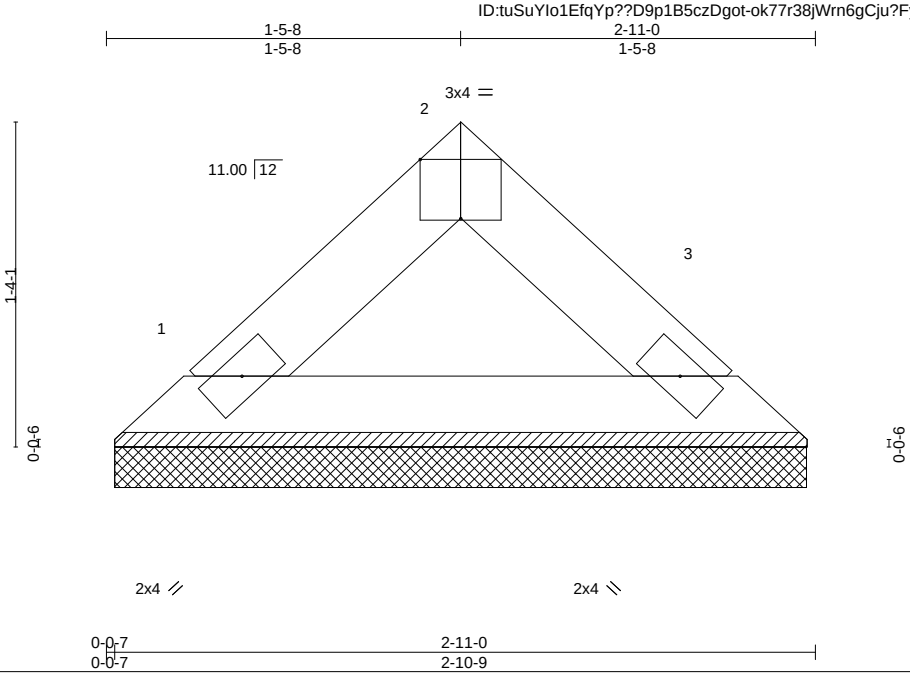

Plate Offsets (X,Y)-- [2:0-2-0,Edge]

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 9 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 2-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-10-2, 3=2-10-2
Max Horz 1=24(LC 9)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)
Max Grav 1=87(LC 1), 3=87(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) Non Standard bearing condition. Review required.

September 20,2022

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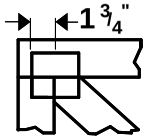
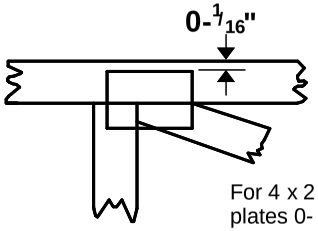
Symbols

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.

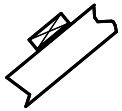
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

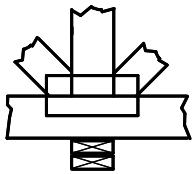
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

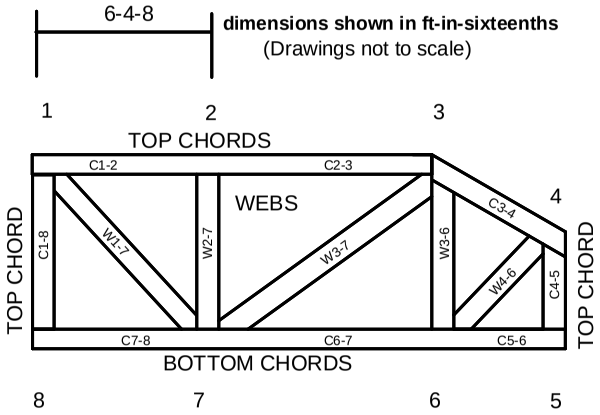


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.