

RE: J0322-1174
 Lot 21 Oak Haven

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0322-1174
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-10 Wind Speed: 150 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16482478	A01-GR	12/14/2021	21	E16482498	B6	12/14/2021
2	E16482479	A02	12/14/2021	22	E16482499	B7	12/14/2021
3	E16482480	A03	12/14/2021	23	E16482500	B8	12/14/2021
4	E16482481	A04	12/14/2021	24	E16482501	C1	12/14/2021
5	E16482482	A05	12/14/2021	25	E16482502	C1GE	12/14/2021
6	E16482483	A06	12/14/2021	26	E16482503	D1	12/14/2021
7	E16482484	A07	12/14/2021	27	E16482504	D1GE	12/14/2021
8	E16482485	A08	12/14/2021	28	E16482505	D2	12/14/2021
9	E16482486	A08A	12/14/2021	29	E16482506	G1	12/14/2021
10	E16482487	A09	12/14/2021	30	E16482507	G1GE	12/14/2021
11	E16482488	A10	12/14/2021	31	E16482508	G2	12/14/2021
12	E16482489	A11	12/14/2021	32	E16482509	X1	12/14/2021
13	E16482490	A12	12/14/2021	33	E16482510	X1A	12/14/2021
14	E16482491	A13	12/14/2021	34	E16482511	X2	12/14/2021
15	E16482492	A14-GR	12/14/2021	35	E16482512	X3	12/14/2021
16	E16482493	B1-GR	12/14/2021	36	E16482513	XB1	12/14/2021
17	E16482494	B2	12/14/2021	37	E16482514	XB1-GR	12/14/2021
18	E16482495	B3	12/14/2021	38	E16482515	XB2	12/14/2021
19	E16482496	B4	12/14/2021	39	E16482516	Y1	12/14/2021
20	E16482497	B5	12/14/2021	40	E16482517	YB1	12/14/2021

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



December 14, 2021

RE: J0322-1174 - Lot 21 Oak Haven

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: Project Name: J0322-1174

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
41	E16482518	YB2	12/14/2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482478
J0322-1174	A01-GR	FLAT GIRDER	1	2	Job Reference (optional)	

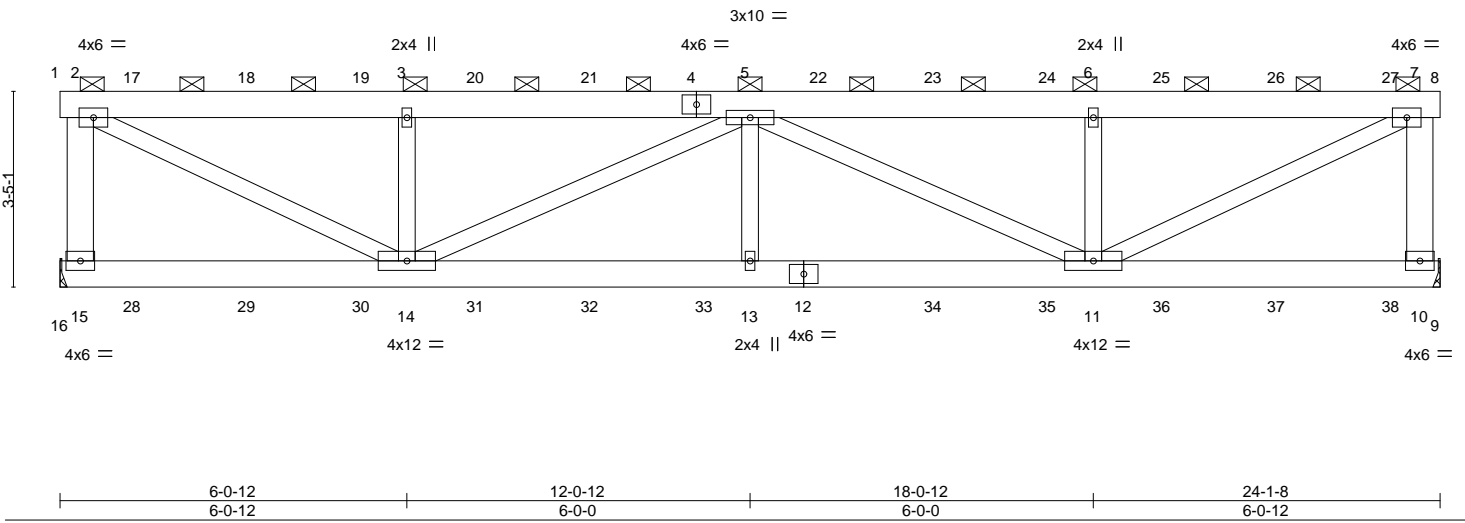
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:52 2021 Page 1

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Scale = 1:40.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.07 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.13 11-13 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 11-13 >999 240	Weight: 343 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 2-15,7-10: 2x6 SP No.1

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-8, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

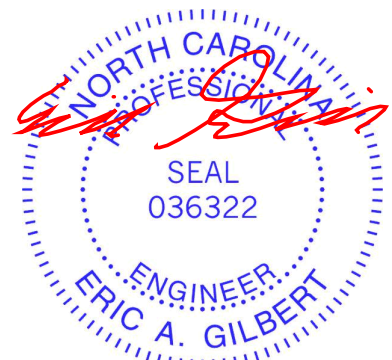
(size) 15=Mechanical, 10=Mechanical
 Max Uplift 15=-409(LC 4), 10=-416(LC 5)
 Max Grav 15=1868(LC 1), 10=2088(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-1720/458, 2-3=-2806/596, 3-5=-2806/596, 5-6=-2996/598, 6-7=-2996/598,
 7-10=-1726/411
 BOT CHORD 13-14=-807/3909, 11-13=-807/3909
 WEBS 2-14=-634/2993, 3-14=-673/349, 5-14=-1230/236, 5-13=0/550, 5-11=-1018/234,
 6-11=-371/201, 7-11=-636/3186

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=409, 10=416.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 75 lb up at 1-3-4, 104 lb down and 75 lb up at 3-3-4, 104 lb down and 75 lb up at 5-3-4, 104 lb down and 75 lb up at 7-3-4, 104 lb down and 75 lb up at 9-3-4, 104 lb down and 75 lb up at 11-3-4, 36 lb down and 30 lb up at 13-3-4, 36 lb down and 30 lb up at 15-3-4, 36 lb down and 30 lb up at 17-3-4, 36 lb down and 30 lb up at 19-3-4, and 36 lb down and 30 lb up at 21-3-4, and 34 lb down and 33 lb up at 23-3-4 on top chord, and 69 lb down at 1-3-4, 69 lb down at 3-3-4, 69 lb down at 5-3-4, 69 lb down at 7-3-4, 69 lb down and 33 lb up at 9-3-4, 69 lb down at 11-3-4, 176 lb down and 30 lb up at 13-3-4, 176 lb down and 30 lb up at 15-3-4, 176 lb down and 30 lb up at 17-3-4, 176 lb down and 30 lb up at 19-3-4, and 176 lb down and 30 lb up at 21-3-4, and 178 lb down and 28 lb up at 23-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



December 14, 2021

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482478
J0322-1174	A01-GR	FLAT GIRDER	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:52 2021 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-7=-60, 7-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 4=-104(B) 12=-176(B) 17=-104(B) 18=-104(B) 19=-104(B) 20=-104(B) 21=-104(B) 22=-22(B) 23=-22(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-26(B) 28=-35(B)
 29=-35(B) 30=-35(B) 31=-35(B) 32=-35(B) 33=-35(B) 34=-176(B) 35=-176(B) 36=-176(B) 37=-176(B) 38=-178(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



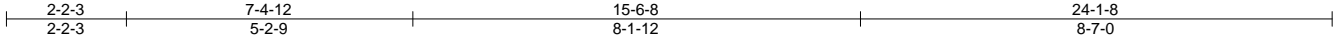
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482479
J0322-1174	A02	HALF HIP	1	1		

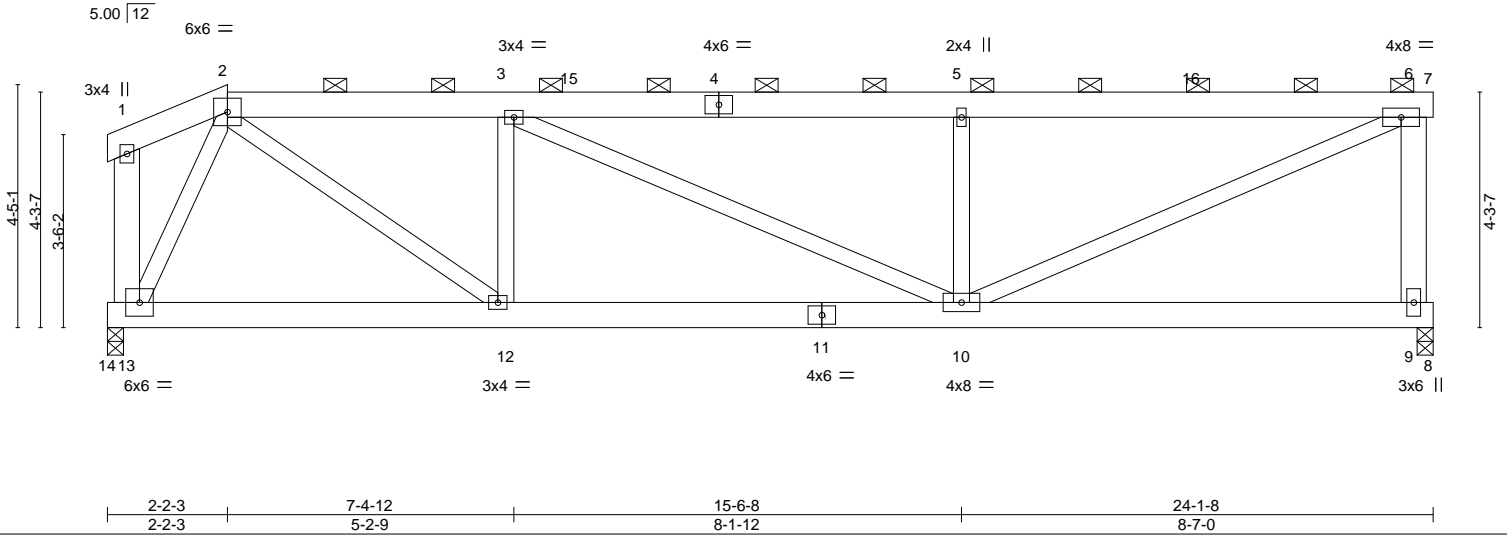
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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:52 2021 Page 1

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Scale = 1:41.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) -0.05 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.11 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 10-12 >999 240	Weight: 178 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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.): 2-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-9,1-13: 2x6 SP No.1	

REACTIONS. (size) 9=0-3-8, 13=0-3-8
 Max Horz 13=29(LC 12)
 Max Uplift 9=-244(LC 9), 13=-200(LC 9)
 Max Grav 9=965(LC 1), 13=944(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1280/566, 3-5=-1415/573, 5-6=-1415/573, 6-9=-869/451
 BOT CHORD 12-13=-234/408, 10-12=-564/1277
 WEBS 2-12=-416/1101, 5-10=-522/382, 6-10=-593/1459, 2-13=-880/440, 3-12=-513/349

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 8-4-14, Interior(1) 8-4-14 to 24-1-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=244, 13=200.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

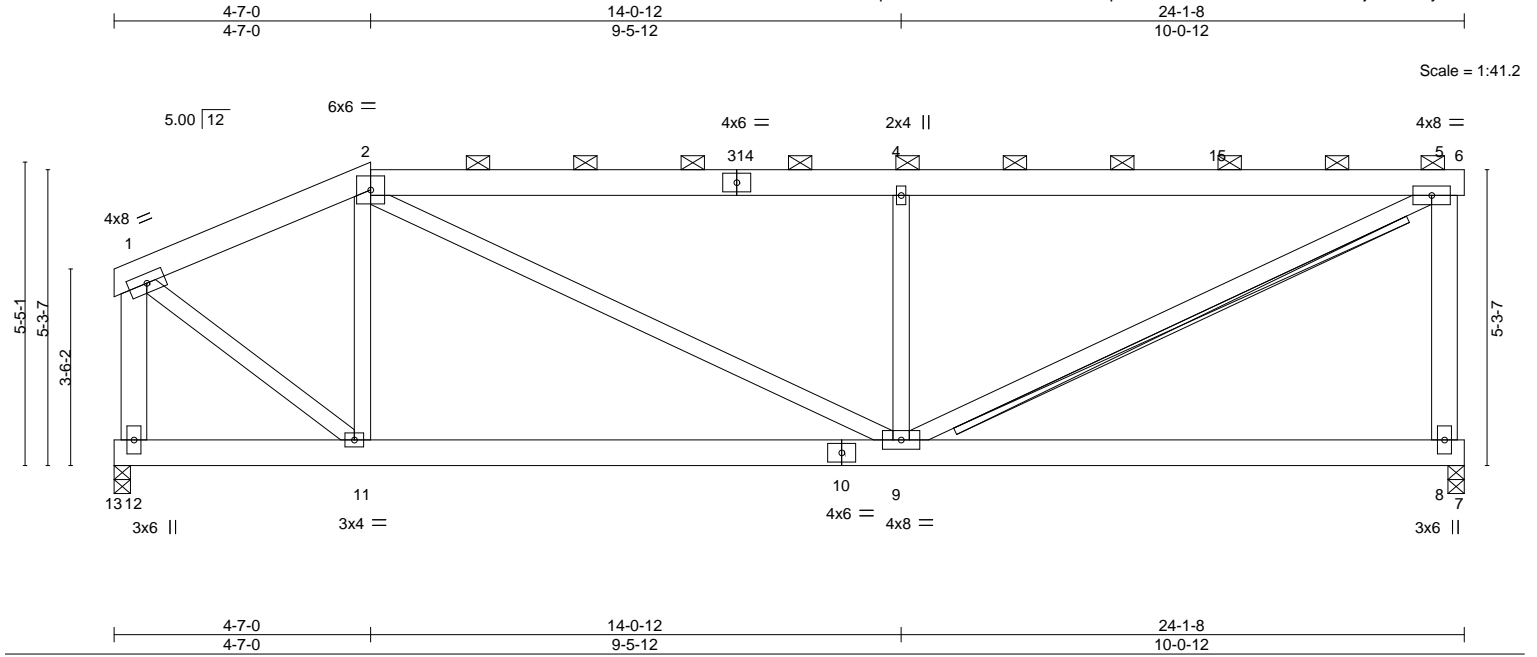


December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482480
J0322-1174	A03	HALF HIP	1	1		

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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:53 2021 Page 1
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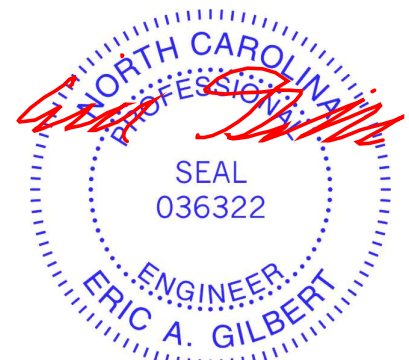
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.05 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.37	Vert(CT) -0.11 8-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 9-11 >999 240		
				Weight: 182 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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.): 2-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 5-8,1-12: 2x6 SP No.1	T-Brace: 2x4 SPF No.2 - 5-9 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) 8=0-3-8, 12=0-3-8
 Max Horz 12=72(LC 12)
 Max Uplift 8=-246(LC 9), 12=-171(LC 9)
 Max Grav 8=965(LC 1), 12=944(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-801/366, 2-4=-1243/562, 4-5=-1242/561, 5-8=-859/477, 1-12=-920/436
 BOT CHORD 9-11=-405/722
 WEBS 2-11=-381/302, 2-9=-182/620, 4-9=-653/481, 5-9=-592/1292, 1-11=-339/882

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 10-9-11, Interior(1) 10-9-11 to 24-1-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=246, 12=171.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482481
J0322-1174	A04	HIP	1	1		

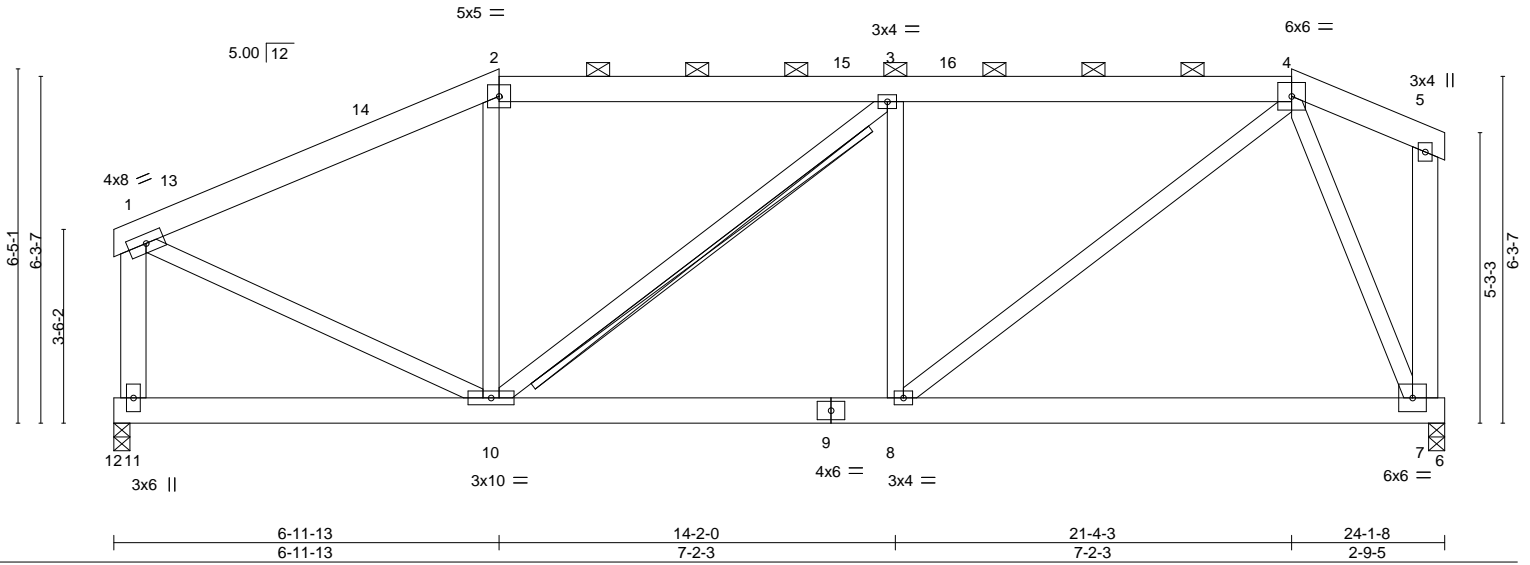
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Scale = 1:41.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.05 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Vert(CT) -0.11 7-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 8-10 >999 240		
				Weight: 194 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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.): 2-4.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	T-Brace: 2x4 SPF No.2 - 3-10
1-11,5-7: 2x6 SP No.2	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) 11=0-3-8, 7=0-3-8
 Max Horz 11=91(LC 12)
 Max Uplift 11=-148(LC 9), 7=-196(LC 8)
 Max Grav 11=944(LC 1), 7=944(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-918/419, 2-3=-785/471, 3-4=-986/519, 1-11=-868/453
 BOT CHORD 8-10=-455/984, 7-8=-188/351
 WEBS 3-10=-328/62, 3-8=-342/335, 4-8=-350/827, 1-10=-277/803, 4-7=-848/514

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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 6-11-13, Exterior(2) 6-11-13 to 13-2-8, Interior(1) 13-2-8 to 21-4-3, Exterior(2) 21-4-3 to 23-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=148, 7=196.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482482
J0322-1174	A05	HIP	1	1		

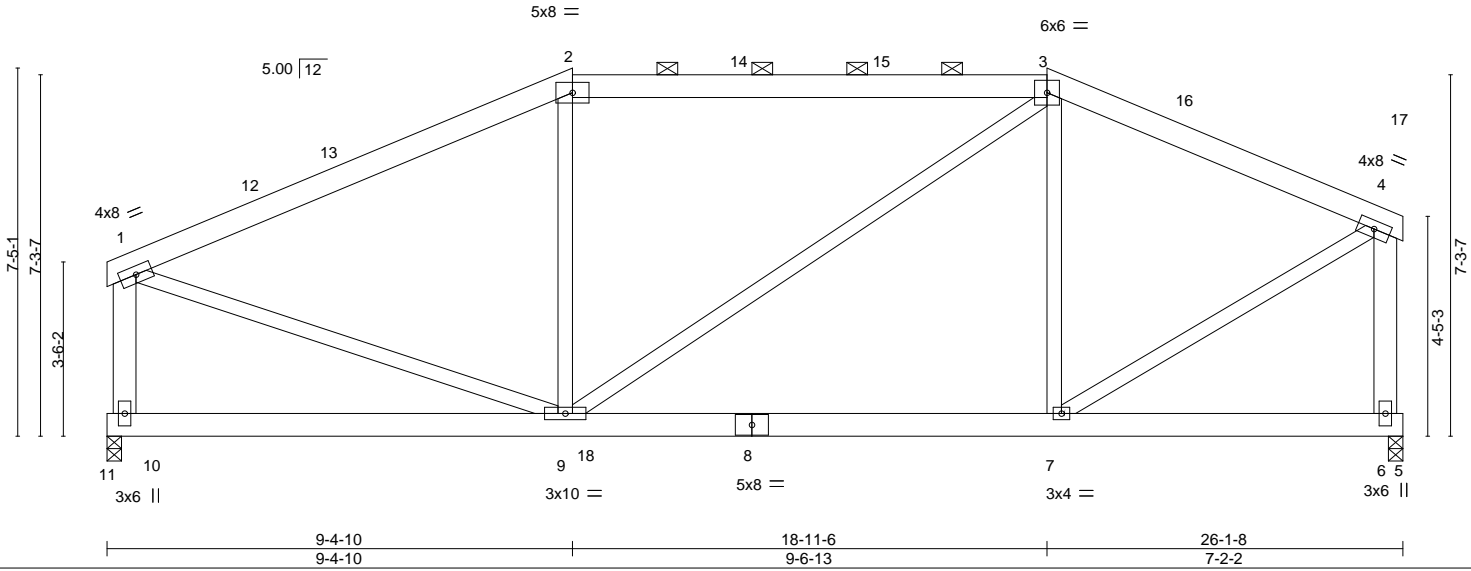
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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:54 2021 Page 1

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Scale = 1:46.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.19 7-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.25 7-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(CT) 0.03 7-9 >999 240	Weight: 202 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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.): 2-3.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-7.
WEBS 2x4 SP No.2 *Except* 1-10,4-6: 2x6 SP No.1	

REACTIONS. (size) 10=0-3-8, 6=0-3-8
 Max Horz 10=84(LC 12)
 Max Uplift 10=-144(LC 9), 6=-162(LC 8)
 Max Grav 10=1087(LC 2), 6=1131(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1257/518, 2-3=-1087/593, 3-4=-1087/463, 1-10=-1028/509, 4-6=-1117/526
 BOT CHORD 7-9=-334/956
 WEBS 2-9=-221/293, 3-7=-284/295, 1-9=-307/1077, 4-7=-353/1098

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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 9-4-10, Exterior(2) 9-4-10 to 15-7-4, Interior(1) 15-7-4 to 18-11-6, Exterior(2) 18-11-6 to 25-2-1, Interior(1) 25-2-1 to 25-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=144, 6=162.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482483
J0322-1174	A06	HIP	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:55 2021 Page 1
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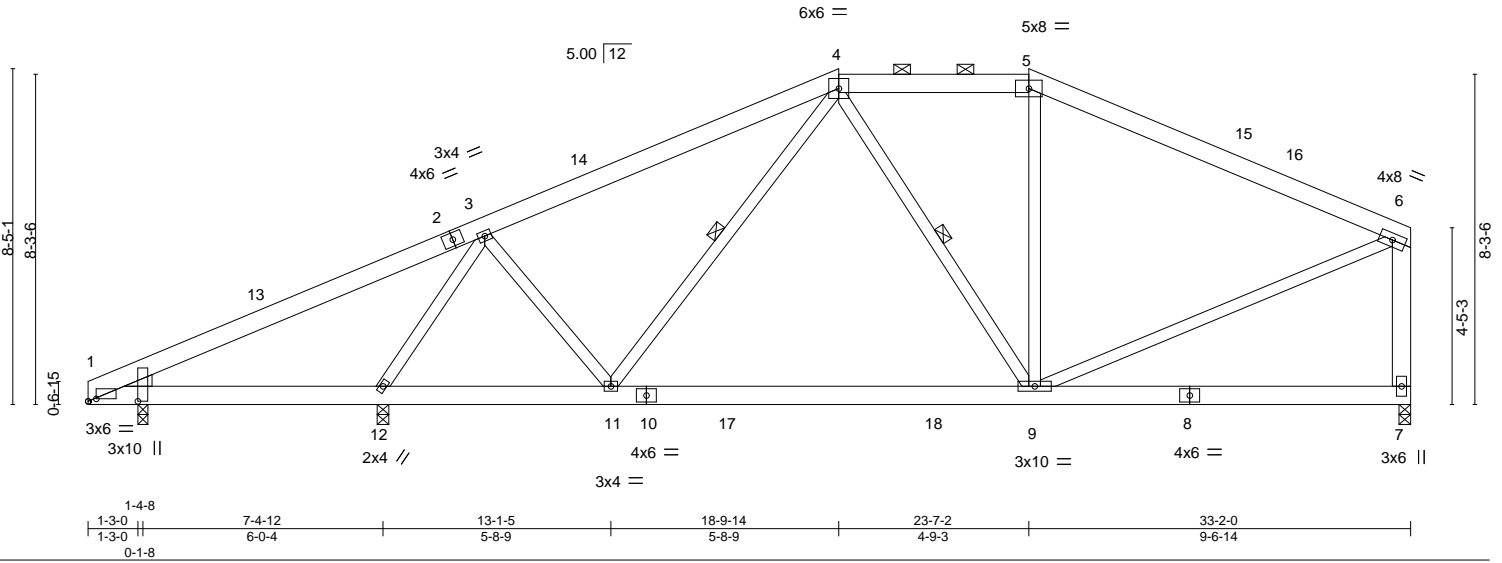


Plate Offsets (X,Y)-- [1:0-2-7,0-0-12], [1:0-0-0,1-2-15]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.18	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.25	9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	9-11	>999	240		
							Weight: 238 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-7: 2x6 SP No.1
 WEDGE
 Left: 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.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-12.
 WEBS 1 Row at midpt 4-11, 4-9

REACTIONS.

(size) 12=0-3-8, 7=0-3-8, 1=0-3-0
 Max Horz 1=237(LC 12)
 Max Uplift 12=-286(LC 12), 7=-160(LC 13), 1=-23(LC 12)
 Max Grav 12=1388(LC 1), 7=1011(LC 1), 1=230(LC 23)

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

TOP CHORD 1-3=-183/276, 3-4=-1021/504, 4-5=-845/541, 5-6=-1002/480, 6-7=-932/525
 BOT CHORD 11-12=-382/647, 9-11=-364/824
 WEBS 3-12=-1478/754, 3-11=0/408, 6-9=-273/860

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 18-9-14, Exterior(2) 18-9-14 to 29-9-12, Interior(1) 29-9-12 to 32-11-4 zone; cantilever left and right exposed :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=286, 7=160.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482484
J0322-1174	A07	COMMON	7	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:57 2021 Page 1
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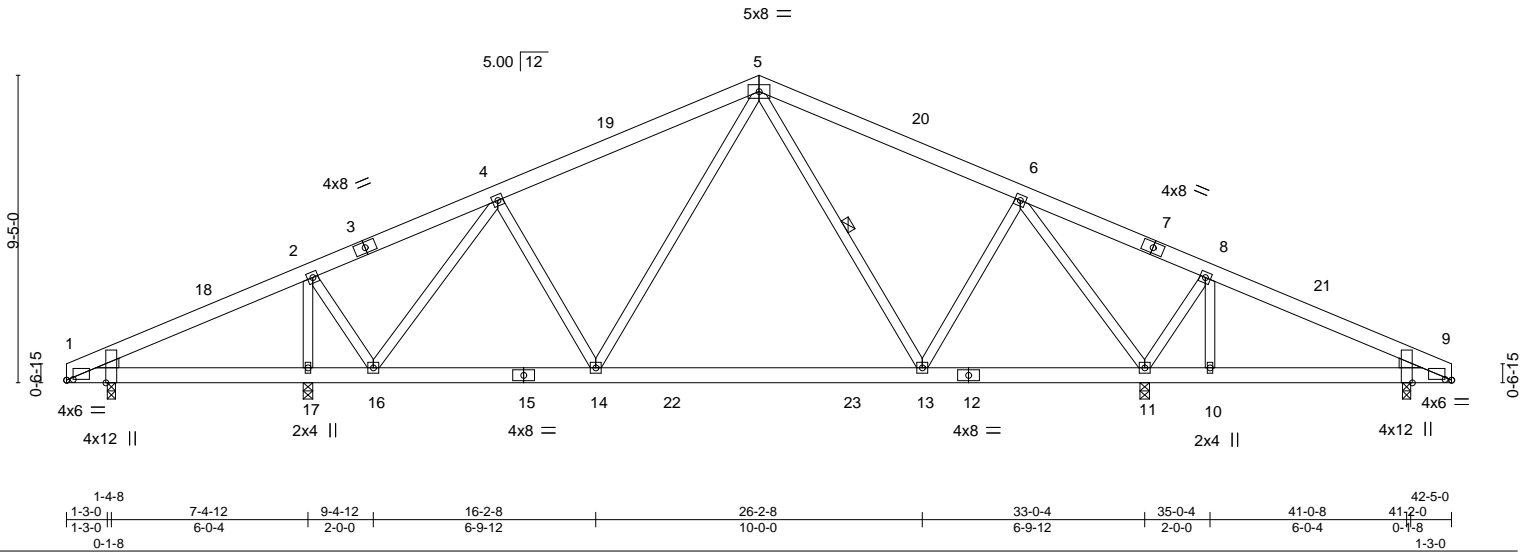


Plate Offsets (X,Y)-- [1:0-2-7,0-0-4], [1:0-1-0,Edge], [9:0-2-7,0-0-4], [9:0-1-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.15	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.21	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	14	>999	240		
							Weight: 293 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, Except:
 6-0-0 oc bracing: 1-17,16-17.
 WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 0-3-8 except (jt=length) 1=0-3-0, 9=0-3-0.
 (lb) - Max Horz 1=143(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 11=300(LC 13), 17=311(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1 except 11=1498(LC 1), 17=1391(LC 1), 9=287(LC 24)

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

TOP CHORD 2-4=-416/266, 4-5=-976/492, 5-6=-837/437, 6-8=0/267
 BOT CHORD 14-16=-150/764, 13-14=-32/695, 11-13=-59/523
 WEBS 4-16=-829/268, 5-14=-66/323, 6-13=0/407, 6-11=-1269/440, 8-11=-516/282,
 2-17=-1174/533, 2-16=-196/701

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 21-2-8, Exterior(2) 21-2-8 to 25-7-5, Interior(1) 25-7-5 to 42-3-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 11=300, 17=311.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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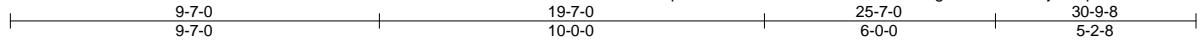
Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482485
J0322-1174	A08	COMMON	7	1		

Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:58 2021 Page 1

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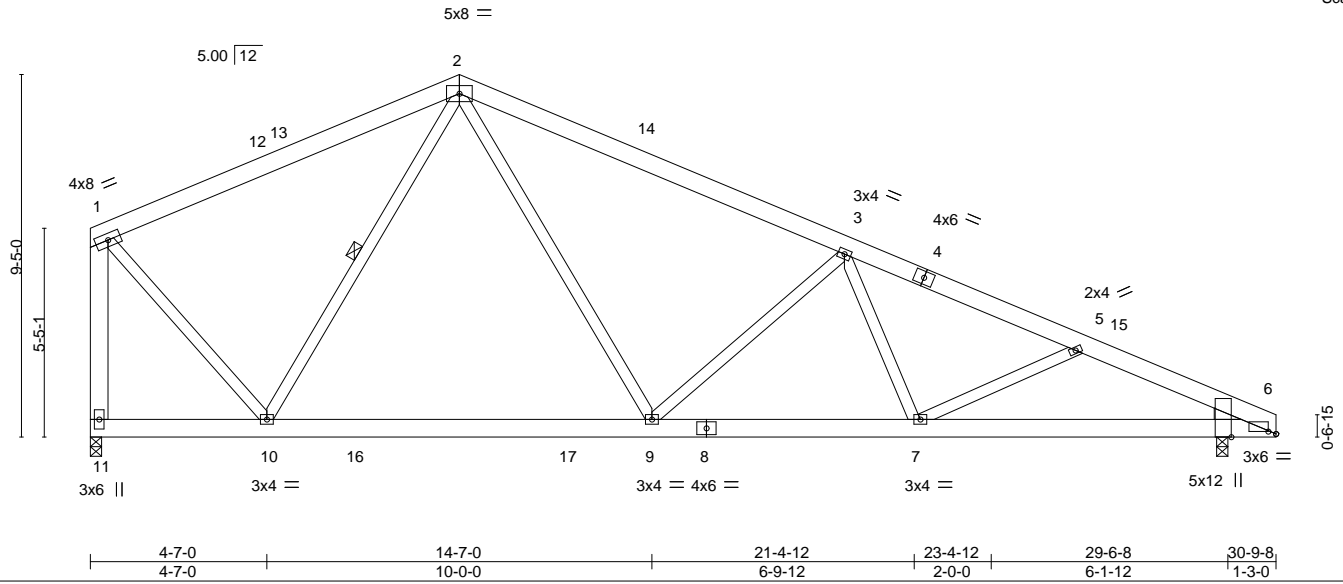


Plate Offsets (X,Y)-- [6:0-2-7,0-0-12], [6:0-1-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.15	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.23	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	7-9	>999	240		
							Weight: 225 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-11: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 8-10-10 oc bracing: 6-7.
 WEBS 1 Row at midpt 2-10

REACTIONS.

(size) 11=0-3-8, 6=0-3-8
 Max Horz 11=-281(LC 13)
 Max Uplift 11=-201(LC 13), 6=-240(LC 13)
 Max Grav 11=1237(LC 2), 6=1217(LC 1)

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

TOP CHORD 1-2=-837/361, 2-3=-1569/647, 3-5=-2212/799, 5-6=-2479/953, 1-11=-1275/533
 BOT CHORD 10-11=-83/266, 9-10=-109/920, 7-9=-557/1888, 6-7=-784/2221
 WEBS 2-10=-572/331, 2-9=-245/902, 3-9=-821/453, 3-7=-29/389, 5-7=-250/284,
 1-10=-227/1008

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-7-0, Exterior(2) 9-7-0 to 13-11-13, Interior(1) 13-11-13 to 30-7-12 zone; cantilever right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=201, 6=240.



December 14, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J0322-1174	Truss A08A	Truss Type COMMON	Qty 1	Ply 1	Lot 21 Oak Haven Job Reference (optional)	E16482486
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Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:36:59 2021 Page 1

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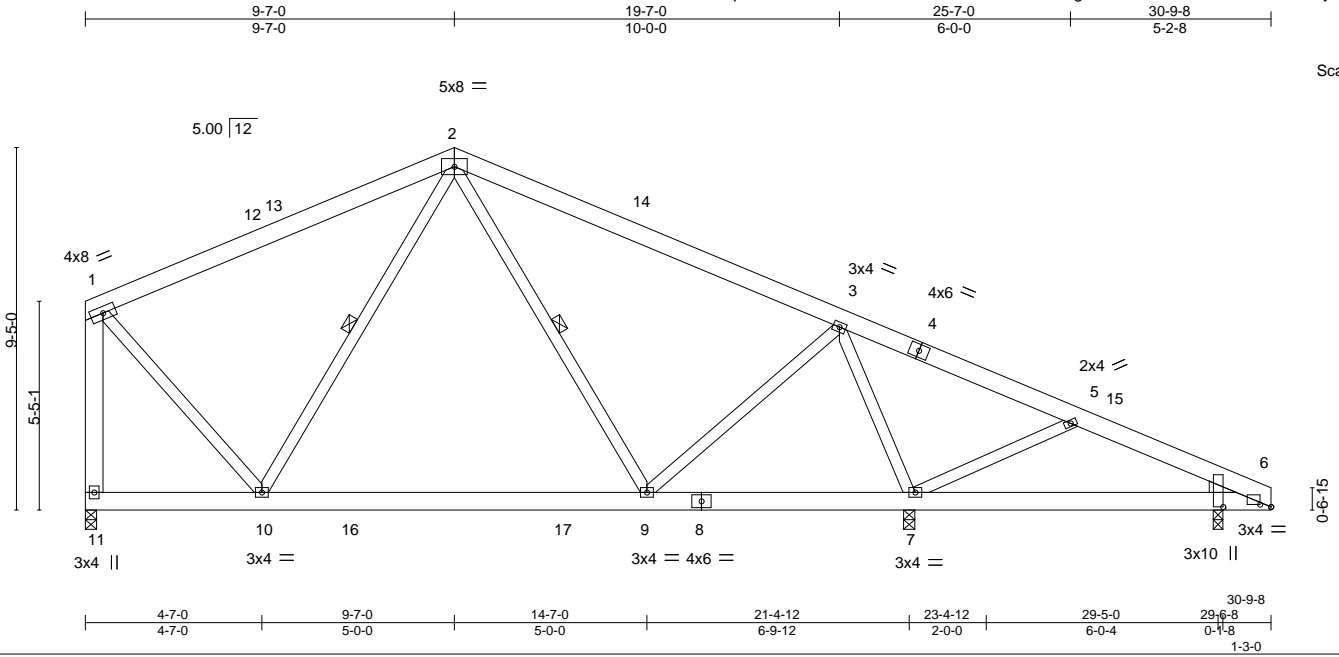


Plate Offsets (X,Y)-- [6:0-3-7,0-0-12], [6:0-0-0,1-2-15]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.14	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.20	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	9-10	>999	240	Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11: 2x6 SP No.1	WEBS 1 Row at midpt 2-10, 2-9

WEDGE
Right: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 7=0-3-8, 6=0-3-0
 Max Horz 11=-281(LC 13)
 Max Uplift 11=-145(LC 12), 7=-272(LC 13), 6=-50(LC 13)
 Max Grav 11=846(LC 2), 7=1352(LC 1), 6=274(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-567/264, 2-3=-682/326, 3-5=-65/260, 1-11=-885/392
 BOT CHORD 10-11=-84/266, 9-10=0/551, 7-9=0/262
 WEBS 3-9=0/420, 3-7=-1099/494, 5-7=-369/326, 1-10=-90/630

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-7-0, Exterior(2) 9-7-0 to 13-11-13, Interior(1) 13-11-13 to 30-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 11=145, 7=272.



December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482487
J0322-1174	A09	ROOF SPECIAL	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:00 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-EKkgyXi1pT_jtqeHm7NWefelwhculOUIBofHtyy9NWN

Job Reference (optional)

30-9-8

6-2-9 6-2-9 11-11-10 5-9-1 21-6-8 9-6-14 9-6-14 9-3-0

Scale = 1:51.3

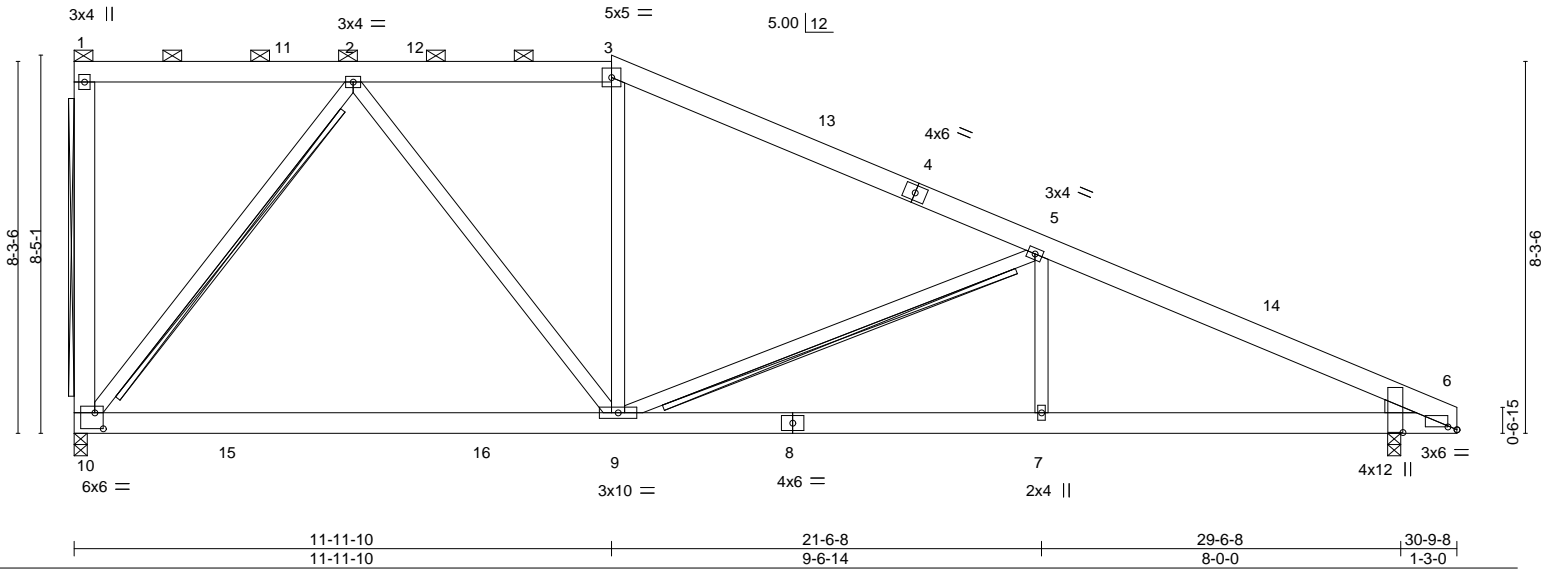


Plate Offsets (X,Y)-- [6:0-0-12,1-2-7], [6:0-2-7,0-0-12], [10:0-2-4,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.31	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.46	9-10	>797	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	7	>999	240		
							Weight: 225 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-10: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3. Rigid ceiling directly applied or 9-11-14 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 1-10, 2-10, 5-9
 WEBS 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.

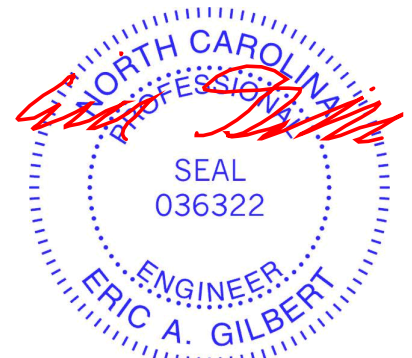
(size) 10=0-3-8, 6=0-3-8
 Max Horz 10=-340(LC 13)
 Max Uplift 10=-263(LC 8), 6=-215(LC 13)
 Max Grav 10=1270(LC 2), 6=1217(LC 1)

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

TOP CHORD 2-3=-1182/547, 3-5=-1394/489, 5-6=-2383/767
 BOT CHORD 9-10=0/749, 7-9=-602/2124, 6-7=-602/2124
 WEBS 2-10=-1196/627, 2-9=-272/741, 5-9=-1030/529, 5-7=0/369

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-11-10, Exterior(2) 11-11-10 to 16-4-6, Interior(1) 16-4-6 to 30-7-12 zone; cantilever left and right exposed :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=263, 6=215.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482488
J0322-1174	A10	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:01 2021 Page 1
ID:3N443qrVo5ReszoeZuaaJL3zGYtF-iWH29tjfan6aV_DTJrulBSAwn4zdUtJuQSORPOy9NWm

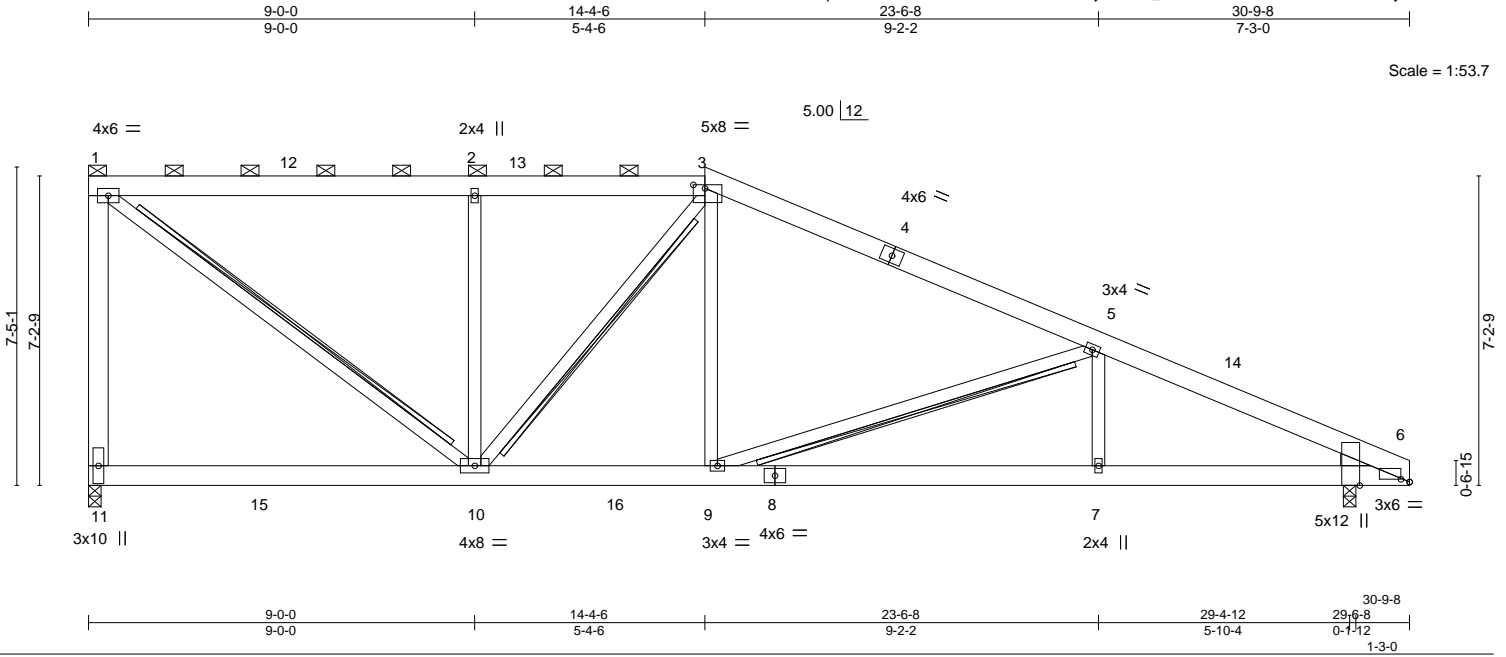


Plate Offsets (X,Y)-- [3:0-3-4,0-1-0], [6:0-2-7,0-0-12], [6:0-1-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.07	7-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.17	7-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	7-9	>999	240		
							Weight: 228 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-11: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3. Rigid ceiling directly applied or 9-2-13 oc bracing.
 BOT CHORD
 WEBS T-Brace: 2x4 SPF No.2 - 1-10, 3-10, 5-9
 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.

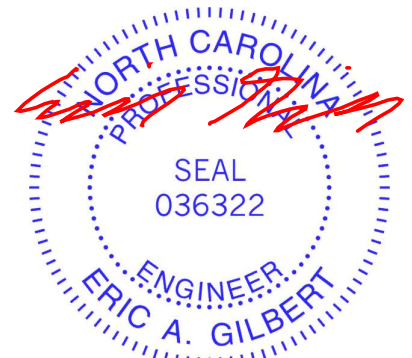
(size) 11=0-3-8, 6=0-3-8
 Max Horz 11=-295(LC 13)
 Max Uplift 11=-270(LC 8), 6=-210(LC 13)
 Max Grav 11=1280(LC 2), 6=1217(LC 1)

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

TOP CHORD 1-11=-1129/599, 1-2=-1185/534, 2-3=-1188/538, 3-5=-1616/617, 5-6=-2521/865
 BOT CHORD 10-11=-136/354, 9-10=-290/1381, 7-9=-716/2263, 6-7=-716/2263
 WEBS 1-10=-654/1451, 2-10=-520/366, 3-10=-319/193, 3-9=-79/505, 5-9=-922/468, 5-7=0/355

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 14-4-6, Exterior(2) 14-4-6 to 18-9-3, Interior(1) 18-9-3 to 30-7-12 zone; cantilever left and right exposed :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=270, 6=210.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482489
J0322-1174	A11	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:02 2021 Page 1
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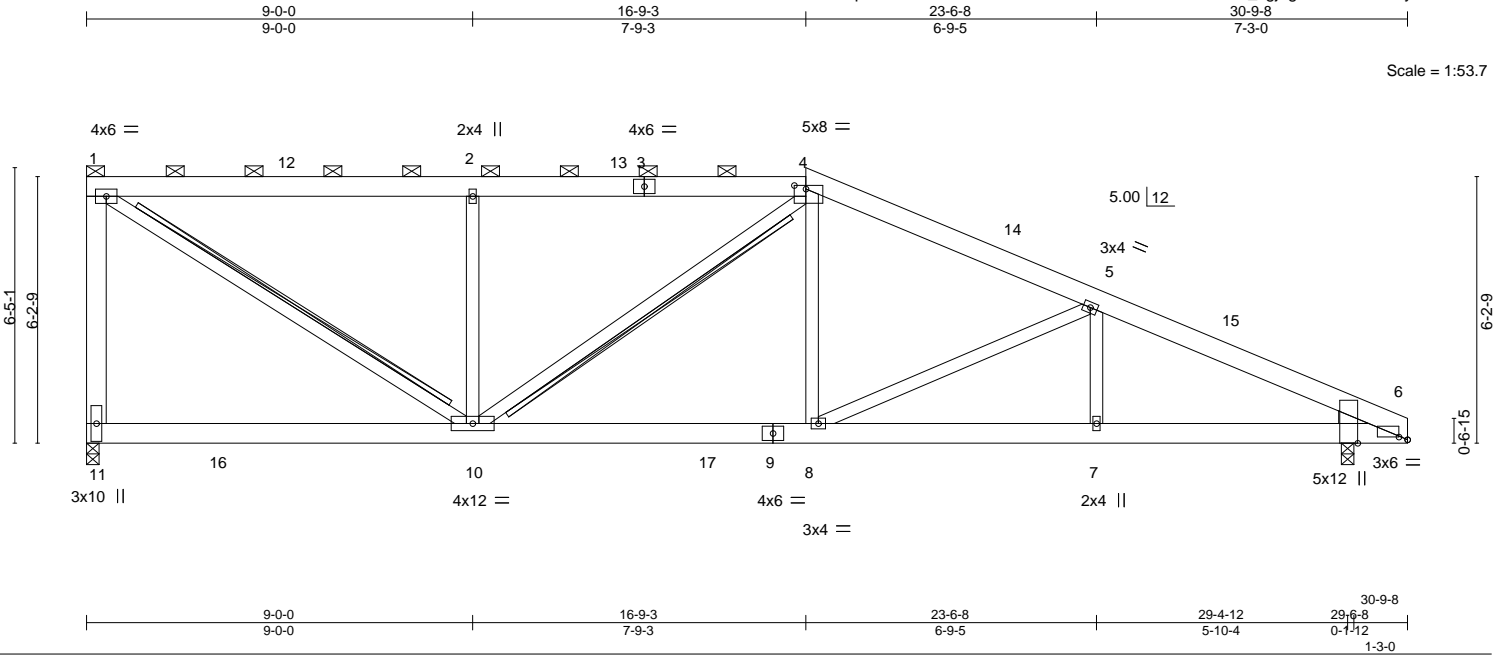


Plate Offsets (X,Y)-- [4:0-3-4,0-1-0], [6:0-2-7,0-0-12], [6:0-1-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.07	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.14	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	7-8	>999	240		
							Weight: 219 lb	FT = 20%

LUMBER-

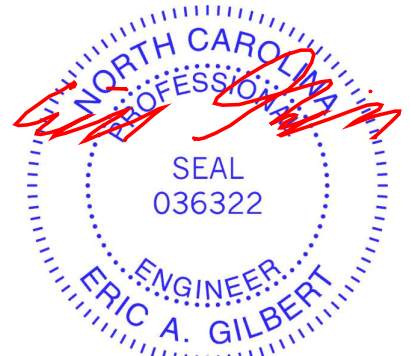
TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-11: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 6=0-3-8
 Max Horz 11=-251(LC 13)
 Max Uplift 11=-277(LC 8), 6=-199(LC 13)
 Max Grav 11=1240(LC 2), 6=1217(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-1132/585, 1-2=-1413/618, 2-4=-1413/620, 4-5=-1825/740, 5-6=-2474/907
 BOT CHORD 10-11=-109/304, 8-10=-433/1606, 7-8=-748/2213, 6-7=-748/2213
 WEBS 1-10=-717/1642, 2-10=-589/422, 4-10=-260/164, 4-8=-74/484, 5-8=-659/352, 5-7=0/288

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 16-9-3, Exterior(2) 16-9-3 to 21-2-0, Interior(1) 21-2-0 to 30-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=277, 6=199.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482490
J0322-1174	A12	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:03 2021 Page 1
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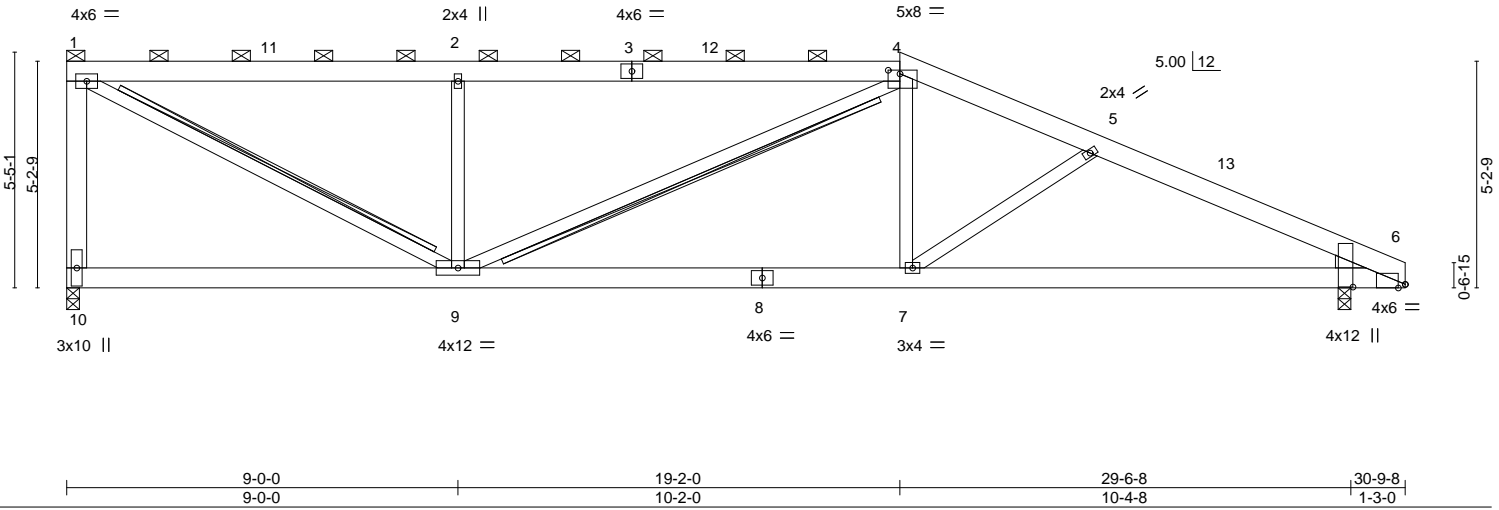


Plate Offsets (X,Y)-- [4:0-3-4,0-1-0], [6:0-1-15,Edge], [6:0-0-12,1-2-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.12	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.26	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	7-9	>999	240		
							Weight: 208 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-10: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-14 max.): 1-4.
 Rigid ceiling directly applied or 8-6-15 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 1-9, 4-9
 WEBS 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) 10=0-3-8, 6=0-3-8
 Max Horz 10=-208(LC 13)
 Max Uplift 10=-283(LC 8), 6=-184(LC 13)
 Max Grav 10=1217(LC 1), 6=1217(LC 1)

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

TOP CHORD 1-10=-1132/574, 1-2=-1741/748, 2-4=-1742/750, 4-5=-2083/849, 5-6=-2394/1001
 BOT CHORD 9-10=-80/254, 7-9=-568/1880, 6-7=-830/2140
 WEBS 1-9=-827/1929, 2-9=-671/479, 4-7=-41/526, 5-7=-299/315

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 19-2-0, Exterior(2) 19-2-0 to 23-9-5, Interior(1) 23-9-5 to 30-7-12 zone; cantilever left and right exposed :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=283, 6=184.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482491
J0322-1174	A13	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:04 2021 Page 1
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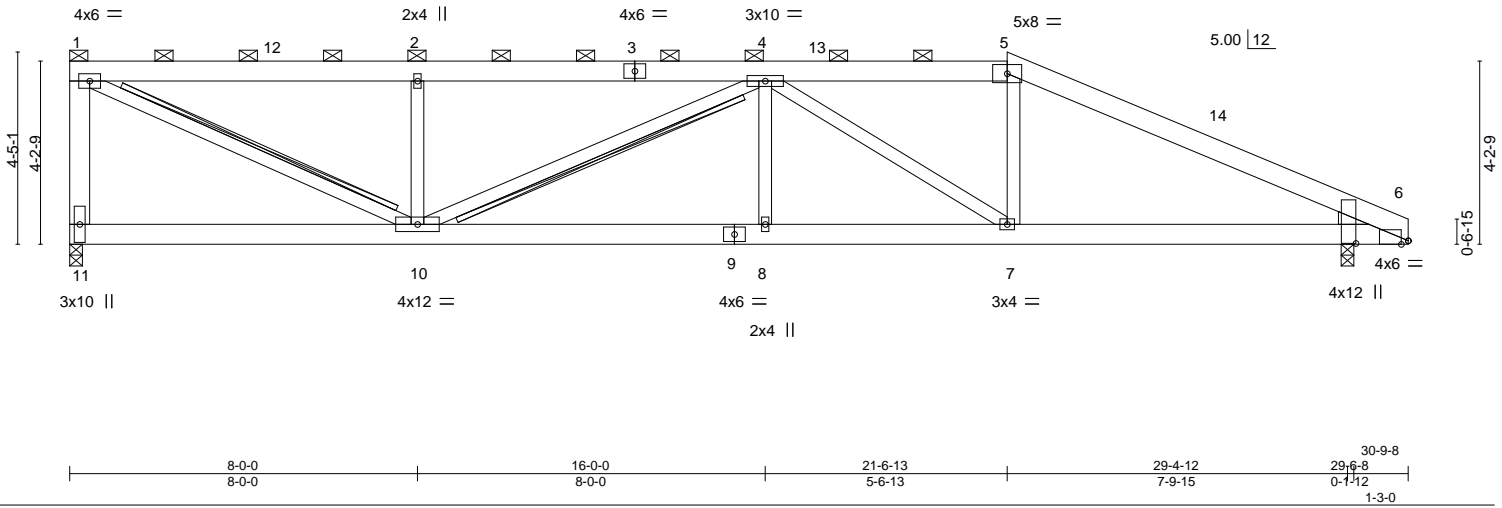


Plate Offsets (X,Y)-- [6:0-1-15,Edge], [6:0-0-12,1-2-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.10	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.22	8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.05	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	8-10	>999	240		
							Weight: 204 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-11: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 6=0-3-8
 Max Horz 11=-164(LC 13)
 Max Uplift 11=-287(LC 8), 6=-202(LC 8)
 Max Grav 11=1217(LC 1), 6=1217(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-1138/555, 1-2=-1983/820, 2-4=-1983/820, 4-5=-2094/954, 5-6=-2393/926
 BOT CHORD 8-10=-847/2515, 7-8=-847/2515, 6-7=-731/2109
 WEBS 1-10=-878/2135, 2-10=-515/381, 4-10=-588/294, 4-7=-658/167, 5-7=-21/542

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 21-6-13, Exterior(2) 21-6-13 to 25-11-10, Interior(1) 25-11-10 to 30-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=287, 6=202.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 14, 2021

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818 Soundside Road
 Edenton, NC 27932

Job J0322-1174	Truss A14-GR	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	Lot 21 Oak Haven Job Reference (optional)	E16482492
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:07 2021 Page 1
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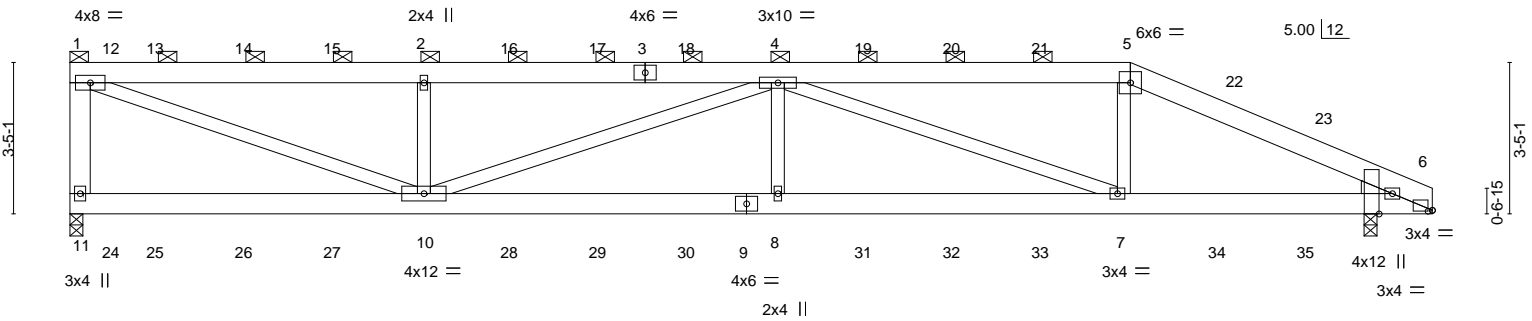


Plate Offsets (X,Y)--	[6:0-1-3,0-0-4], [6:0-1-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.15 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.30 8-10 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.06 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.15 8-10 >999 240	Weight: 398 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-11: 2x6 SP No.1

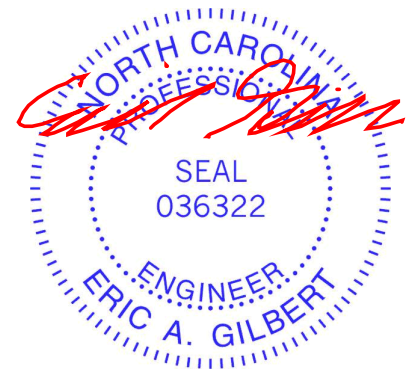
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEDGE
Right: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 6=0-3-8
Max Horz 11=-128(LC 9)
Max Uplift 11=-517(LC 4), 6=-383(LC 4)
Max Grav 11=2369(LC 1), 6=2182(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-2186/597, 1-2=-4657/1017, 2-4=-4657/1017, 4-5=-4218/843, 5-6=-4645/874
BOT CHORD 8-10=-1219/6021, 7-8=-1219/6021, 6-7=-747/4167
WEBS 1-10=-1042/4781, 2-10=-913/464, 4-10=-1455/317, 4-8=0/572, 4-7=-1928/505, 5-7=-11/1093

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=517, 6=383.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482492
J0322-1174	A14-GR	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:07 2021 Page 2
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NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 87 lb up at 0-10-12, 104 lb down and 91 lb up at 1-10-12, 104 lb down and 91 lb up at 3-10-12, 104 lb down and 91 lb up at 5-10-12, 104 lb down and 91 lb up at 7-10-12, 104 lb down and 91 lb up at 9-10-12, 104 lb down and 91 lb up at 11-10-12, 104 lb down and 91 lb up at 13-10-12, 104 lb down and 91 lb up at 15-10-12, 104 lb down and 91 lb up at 17-10-12, 104 lb down and 91 lb up at 19-10-12, 104 lb down and 91 lb up at 21-10-12, 104 lb down and 91 lb up at 23-11-10, and 89 lb down and 52 lb up at 25-10-12, and 110 lb down and 72 lb up at 27-10-12 on top chord, and 76 lb down at 0-10-12, 69 lb down at 1-10-12, 69 lb down at 3-10-12, 69 lb down at 5-10-12, 69 lb down at 7-10-12, 69 lb down at 9-10-12, 69 lb down at 11-10-12, 69 lb down at 13-10-12, 69 lb down at 15-10-12, 69 lb down at 17-10-12, 69 lb down at 19-10-12, 69 lb down at 21-10-12, 69 lb down at 23-10-12, and 63 lb down at 25-10-12, and 77 lb down at 27-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 5=-104(F) 10=-35(F) 2=-104(F) 8=-35(F) 7=-35(F) 4=-104(F) 12=-114(F) 13=-104(F) 14=-104(F) 15=-104(F) 16=-104(F) 17=-104(F) 18=-104(F) 19=-104(F) 20=-104(F) 21=-104(F) 22=-89(F) 23=-110(F) 24=-38(F) 25=-35(F) 26=-35(F) 27=-35(F) 28=-35(F) 29=-35(F) 30=-35(F) 31=-35(F) 32=-35(F) 33=-35(F) 34=-50(F) 35=-58(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482493
J0322-1174	B1-GR	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:08 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-?sDidGo2ww?aq3FpEPOz8NvNGdzgw12bj9Uy9NWF



Scale = 1:59.6

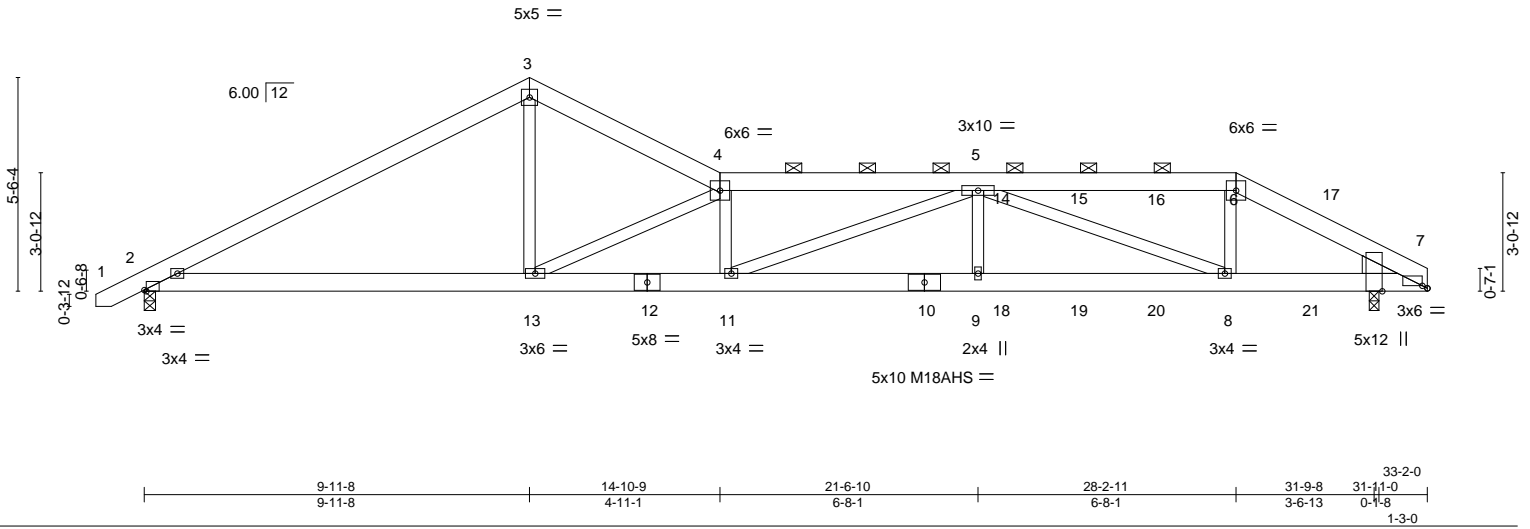


Plate Offsets (X,Y)-- [2:0-10,Edge], [7:0-1-9,Edge], [7:0-0-15,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.22	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.43	9-11	>912	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(CT) 0.08	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.23	9-11	>999	240		
							Weight: 422 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2
 WEDGE
 Right: 2x6 SP No.1

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 7=0-3-0
 Max Horz 2=98(LC 24)
 Max Uplift 2=414(LC 8), 7=689(LC 9)
 Max Grav 2=2085(LC 1), 7=2771(LC 1)

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

TOP CHORD 2-3=-3769/825, 3-4=-3636/814, 4-5=-8163/1935, 5-6=-4865/1270, 6-7=-5457/1360
 BOT CHORD 2-13=-560/3238, 11-13=-1814/8123, 9-11=-2159/8991, 8-9=-2159/8991, 7-8=-1143/4761
 WEBS 3-13=-554/2747, 4-13=-5519/1417, 4-11=-267/766, 5-11=-1028/670, 5-9=-150/1389,
 5-8=-4444/1079, 6-8=-237/1822

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=414, 7=689.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 125 lb up at 22-1-4, 153 lb down and 125 lb up at 24-1-4, 153 lb down and 125 lb up at 26-1-4, and 153 lb down and 125 lb up at 28-2-11, and 158 lb down and 103 lb up at 30-1-4 on top chord, and 1368 lb down and 331 lb up at 20-0-8, 75 lb down at 22-1-4, 75 lb down at 24-1-4, 75 lb down at 26-1-4, and 75 lb down at 28-1-4, and 84 lb down at 30-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



December 14, 2021

Continued on page 2

LOAD CASE(S) Standard

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482493
J0322-1174	B1-GR	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:08 2021 Page 2
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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, 4-6=-60, 6-7=-60, 2-7=-20

Concentrated Loads (lb)

Vert: 6=-113(F) 8=-38(F) 10=-1368(F) 14=-113(F) 15=-113(F) 16=-113(F) 17=-118(F) 18=-38(F) 19=-38(F) 20=-38(F) 21=-66(F)

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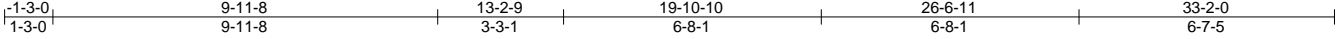
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482494
J0322-1174	B2	ROOF SPECIAL	1	1		
					Job Reference (optional)	

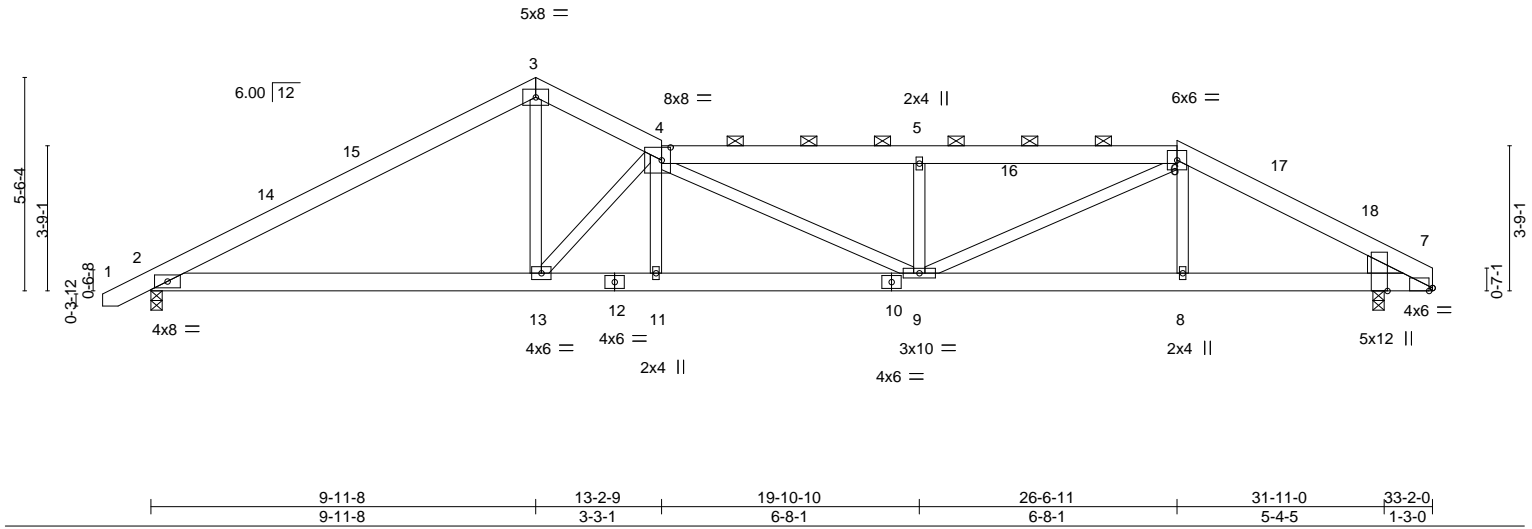
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:09 2021 Page 1

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Scale = 1:59.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.14	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.30	9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.07	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.14	9-11	>999	240		
							Weight: 215 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except 2-0-0 oc purlins (4-1-3 max.); 4-6.
 BOT CHORD Rigid ceiling directly applied or 7-4-5 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=98(LC 11)
 Max Uplift 2=-211(LC 12), 7=-289(LC 13)
 Max Grav 2=1388(LC 1), 7=1314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2254/899, 3-4=-2135/979, 4-5=-3218/1428, 5-6=-3218/1428, 6-7=-2451/1023
 BOT CHORD 2-13=-642/1888, 11-13=-1148/3073, 9-11=-1150/3072, 8-9=-785/2094, 7-8=-782/2101
 WEBS 3-13=-496/1469, 4-9=-97/272, 5-9=-497/348, 6-9=-488/1256, 6-8=0/287, 4-13=-1700/761

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 9-11-8, Exterior(2) 9-11-8 to 13-2-9, Interior(1) 13-2-9 to 26-6-11, Exterior(2) 26-6-11 to 30-11-7, Interior(1) 30-11-7 to 33-0-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) except (jt=lb) 2=211, 7=289.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



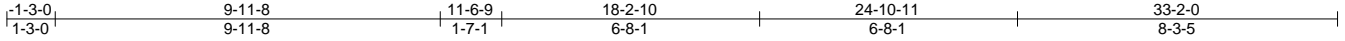
December 14,2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482495
J0322-1174	B3	ROOF SPECIAL	1	1		

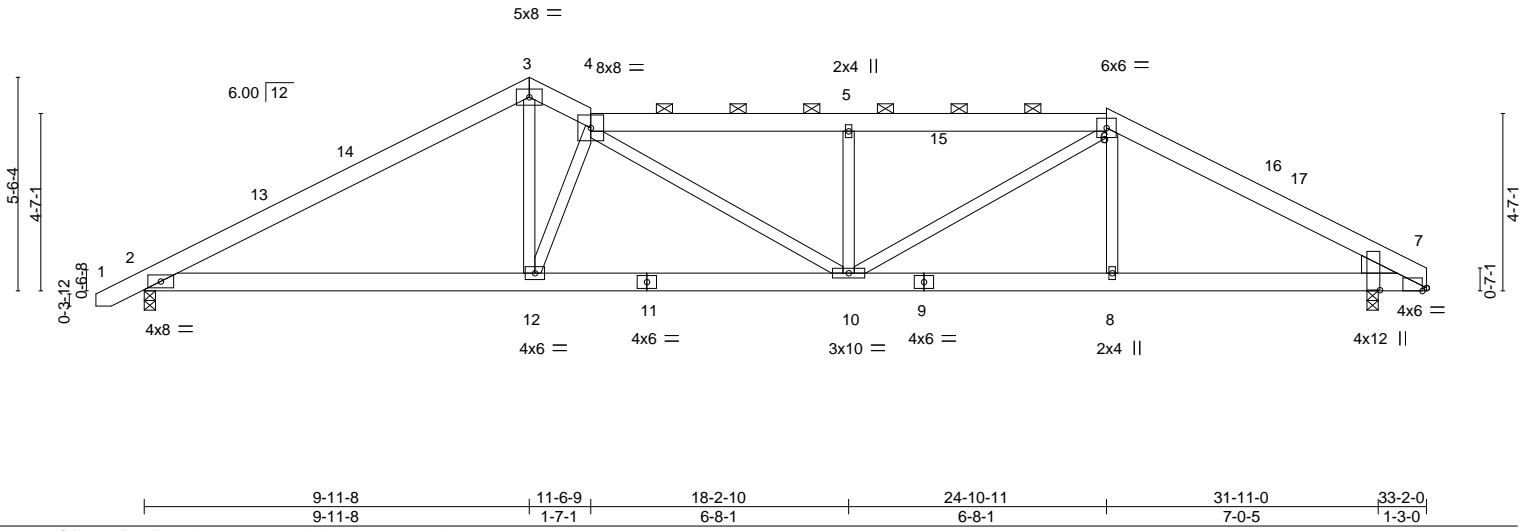
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:10 2021 Page 1

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Scale = 1:59.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.10 10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.22 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11 10 >999 240		
				Weight: 213 lb	FT = 20%

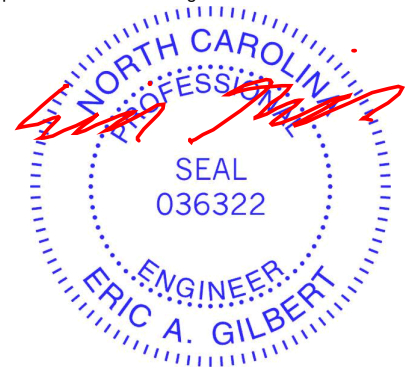
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Right: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except
 2-0-0 oc purlins (4-6-11 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=98(LC 11)
 Max Uplift 2=-211(LC 12), 7=-289(LC 13)
 Max Grav 2=1388(LC 1), 7=1314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2259/910, 3-4=-2077/970, 4-5=-2646/1216, 5-6=-2646/1216, 6-7=-2355/969
 BOT CHORD 2-12=-654/1895, 10-12=-854/2351, 8-10=-710/1992, 7-8=-707/1999
 WEBS 3-12=-462/1444, 4-12=-1314/589, 4-10=-153/458, 5-10=-483/335, 6-10=-304/770, 6-8=0/338

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 9-11-8, Exterior(2) 9-11-8 to 11-6-9, Interior(1) 11-6-9 to 24-10-11, Exterior(2) 24-10-11 to 29-3-7, Interior(1) 29-3-7 to 33-0-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=211, 7=289.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



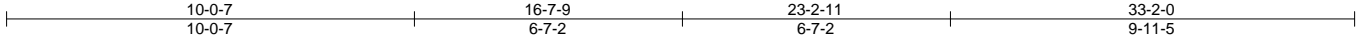
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482496
J0322-1174	B4	HIP	1	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:10 2021 Page 1

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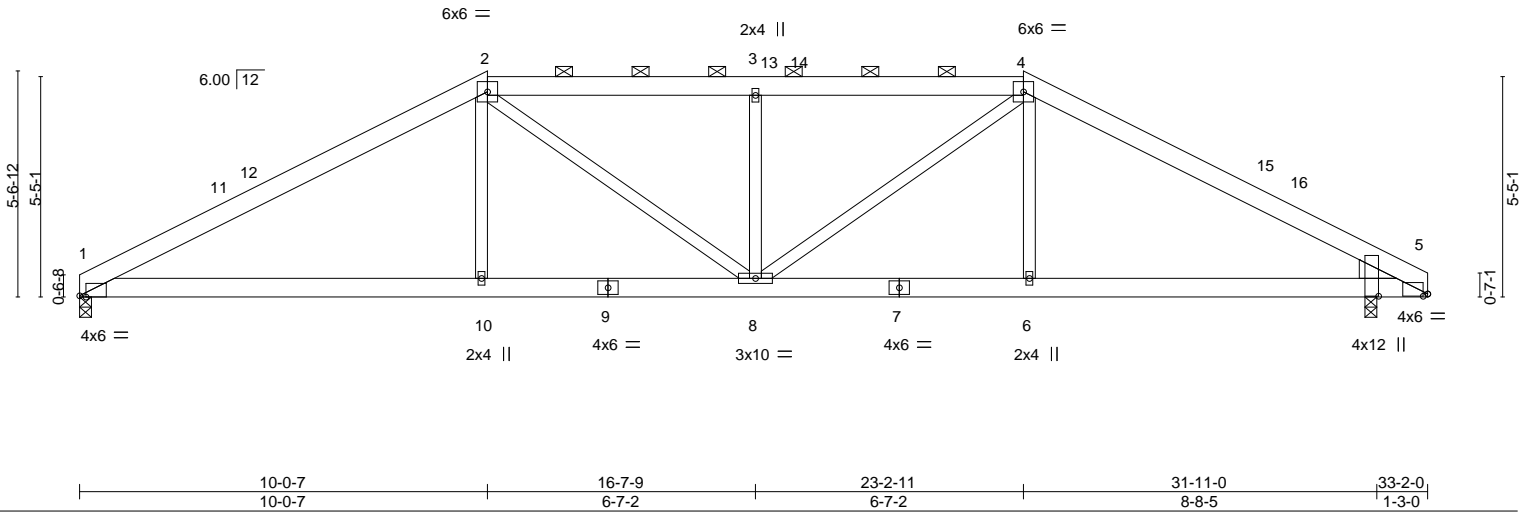


Plate Offsets (X,Y)-- [1:0-1-14,Edge], [5:0-1-5,0-0-11], [5:0-0-11,1-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.08	8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.19	1-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.06	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	8	>999	240		
							Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-2-0 max.); 2-4.
WEBS 2x4 SP No.2	
WEDGE	BOT CHORD Rigid ceiling directly applied or 9-0-2 oc bracing.
Right: 2x6 SP No.1	

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-87(LC 10)
 Max Uplift 1=-184(LC 12), 5=-183(LC 13)
 Max Grav 1=1315(LC 1), 5=1315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2270/969, 2-3=-2206/1106, 3-4=-2206/1106, 4-5=-2261/965
 BOT CHORD 1-10=-718/1910, 8-10=-721/1903, 6-8=-697/1892, 5-6=-695/1899
 WEBS 2-10=0/403, 2-8=-196/533, 3-8=-428/271, 4-8=-197/543, 4-6=0/401

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-0-7, Exterior(2) 10-0-7 to 16-3-1, Interior(1) 16-3-1 to 23-2-11, Exterior(2) 23-2-11 to 29-5-5, Interior(1) 29-5-5 to 33-0-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) except (jt=lb) 1=184, 5=183.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



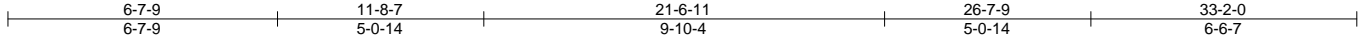
December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482497
J0322-1174	B5	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:11 2021 Page 1

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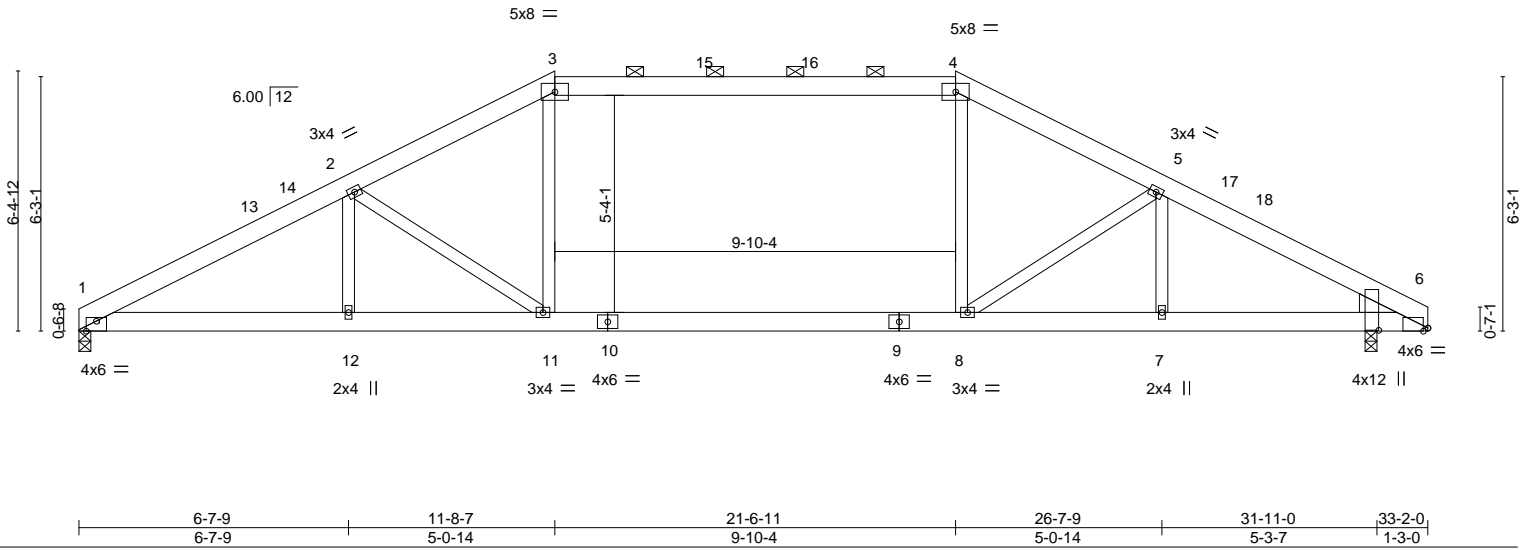


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [6:0-1-5,Edge], [6:0-0-11,1-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.22 11-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.29 11 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.06 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 11 >999 240	Weight: 206 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-3 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-8-13 max.): 3-4.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.
WEDGE	
Right: 2x6 SP No.1	

REACTIONS. (size) 1=0-3-8, 6=0-3-8
 Max Horz 1=101(LC 10)
 Max Uplift 1=200(LC 12), 6=199(LC 13)
 Max Grav 1=1315(LC 1), 6=1315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=2401/1079, 2-3=2008/976, 3-4=1742/929, 4-5=2007/975, 5-6=2379/1070
 BOT CHORD 1-12=880/2072, 11-12=880/2072, 8-11=596/1742, 7-8=854/2047, 6-7=854/2047
 WEBS 2-11=510/342, 3-11=64/492, 4-8=62/488, 5-8=483/330

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-8-7, Exterior(2) 11-8-7 to 17-11-1, Interior(1) 17-11-1 to 21-6-11, Exterior(2) 21-6-11 to 27-9-5, Interior(1) 27-9-5 to 33-0-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=200, 6=199.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

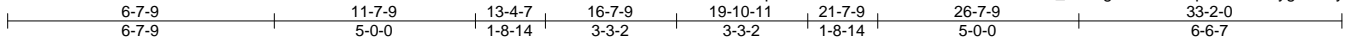
Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482498
J0322-1174	B6	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:12 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-udSCTerZ_9V0JgZaTfbK7n7pzWi0ZtrWygZwiGy9NWb

Job Reference (optional)



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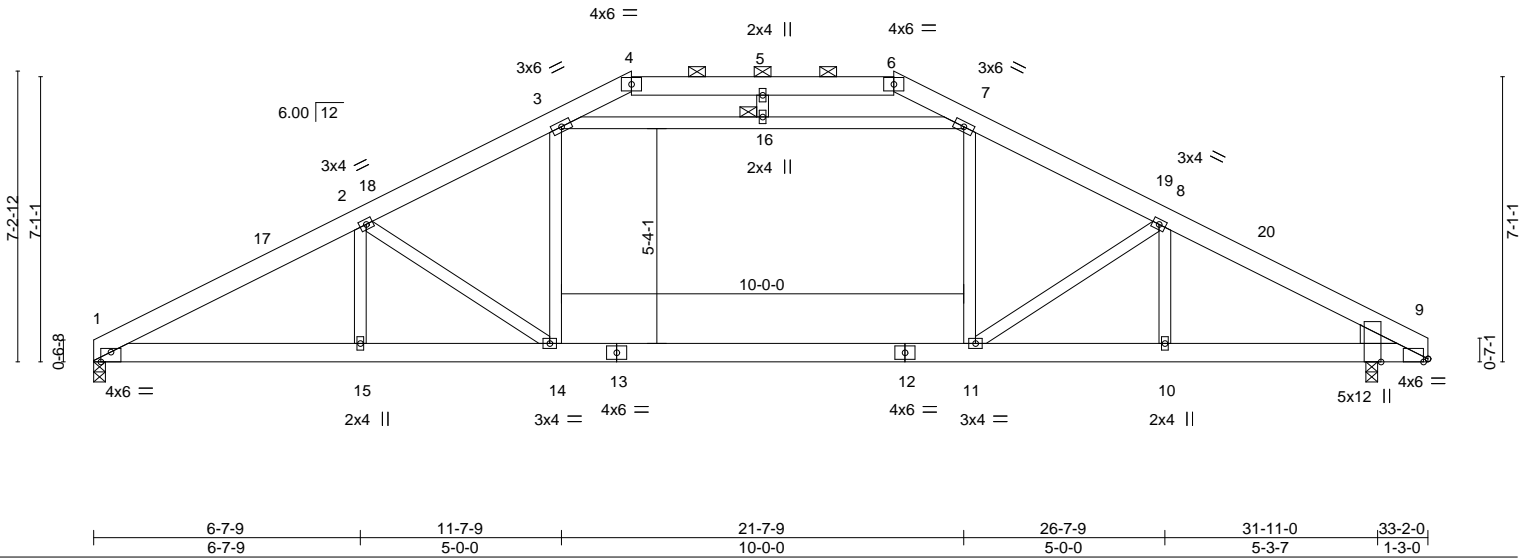


Plate Offsets (X,Y)--	[1:0-3-0,Edge], [9:0-1-5,Edge], [9:0-0-15,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.22	14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.29	14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15	14	>999	240	Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-1-10 oc bracing.
WEBS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 16
WEDGE	
Right: 2x6 SP No.1	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-116(LC 8)
 Max Uplift 1=-214(LC 12), 9=-213(LC 13)
 Max Grav 1=1315(LC 1), 9=1315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2411/1068, 2-3=-1988/965, 3-4=-844/615, 4-5=-782/588, 5-6=-782/588, 6-7=-841/615, 7-8=-1986/964, 8-9=-2390/1059
 BOT CHORD 1-15=-872/2085, 14-15=-872/2085, 11-14=-574/1703, 10-11=-848/2060, 9-10=-848/2060
 WEBS 2-14=-615/363, 8-11=-589/351, 3-14=-96/524, 7-11=-92/518, 3-16=-921/356, 7-16=-921/356

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-4-7, Exterior(2) 13-4-7 to 26-1-5, Interior(1) 26-1-5 to 33-0-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) except (jt=lb) 1=214, 9=213.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

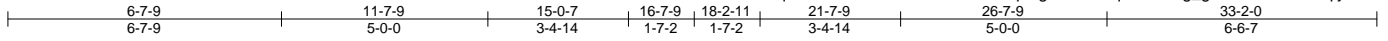
Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482499
J0322-1174	B7	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:13 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-Mq0bgzsBITdxq8n0M6Zg_gznw0xJnifBKIUqiy9NWa

Job Reference (optional)



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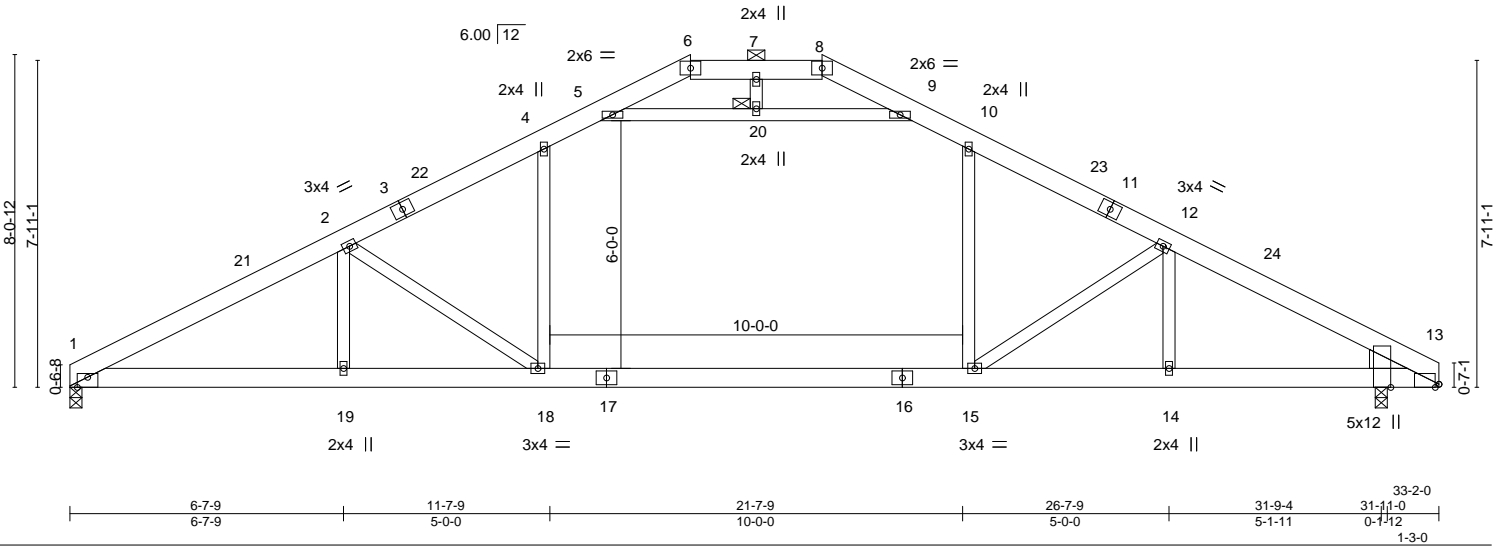


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [13:0-1-1,Edge], [13:0-0-15,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.27 15-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.41 15-18 >966 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.18 18 >999 240	Weight: 220 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 8-5-2 oc bracing.
 JOINTS 1 Brace at Jt(s): 20

REACTIONS.

(size) 1=0-3-8, 13=0-3-8
 Max Horz 1=130(LC 10)
 Max Uplift 1=227(LC 12), 13=226(LC 13)
 Max Grav 1=1382(LC 2), 13=1383(LC 2)

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

TOP CHORD 1-2=-2599/1000, 2-4=-2265/911, 4-5=-1833/869, 5-6=-181/252, 8-9=-182/252, 9-10=-1835/870, 10-12=-2263/910, 12-13=-2577/993
 BOT CHORD 1-19=-814/2282, 18-19=-814/2282, 15-18=-514/1922, 14-15=-790/2241, 13-14=-790/2241
 WEBS 2-18=-702/364, 12-15=-676/353, 4-18=-116/723, 10-15=-112/715, 5-20=-1988/705, 9-20=-1988/705

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-0-7, Exterior(2) 15-0-7 to 24-5-5, Interior(1) 24-5-5 to 33-0-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=227, 13=226.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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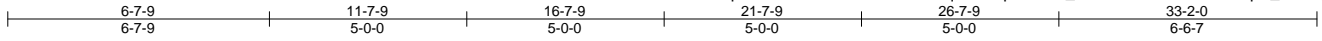
Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482500
J0322-1174	B8	COMMON	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:14 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-q0azuJtpWmkY_iza4doDCD7XKMA1mLpP_21MBy9NWZ

Job Reference (optional)



Scale = 1:58.4

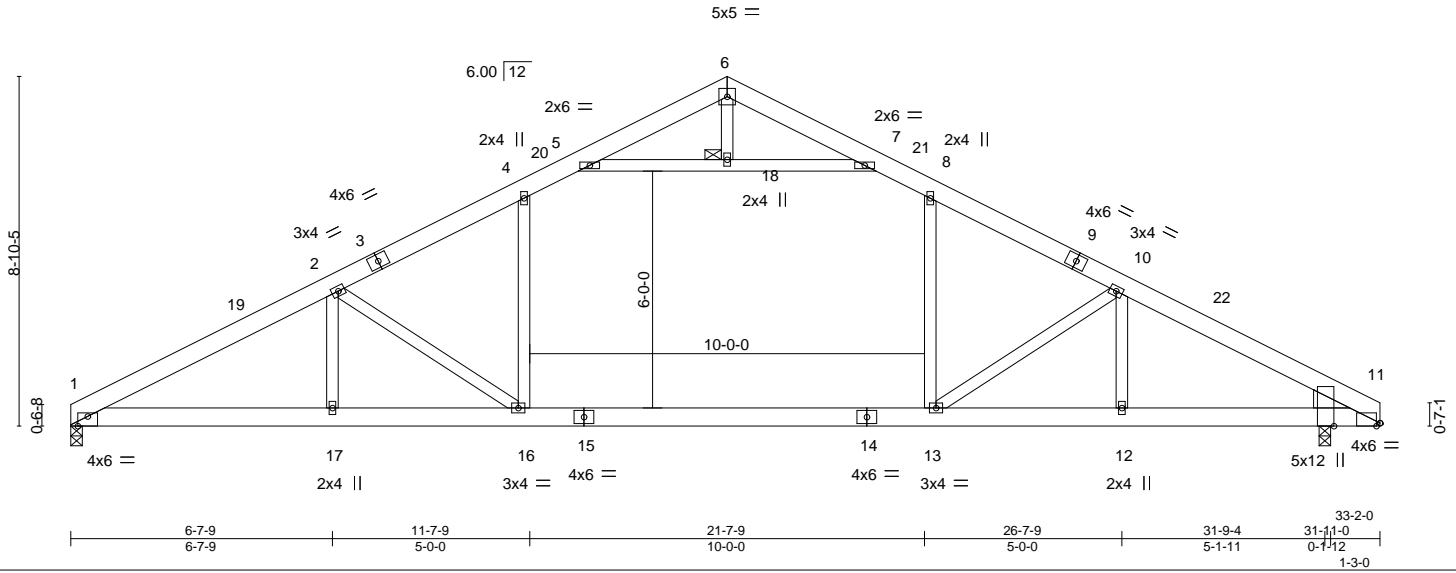


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [11:0-1-1,Edge], [11:0-0-15,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.27	13-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.41	13-16	>966	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.06	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.18	16	>999	240		
							Weight: 222 lb	FT = 20%

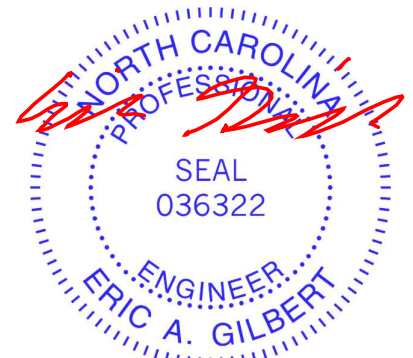
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Right: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-3-9 oc bracing.
 JOINTS 1 Brace at Jt(s): 18

REACTIONS. (size) 1=0-3-8, 11=0-3-8
 Max Horz 1=-145(LC 10)
 Max Uplift 1=-236(LC 12), 11=-236(LC 13)
 Max Grav 1=1382(LC 2), 11=1383(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2599/934, 2-4=-2264/827, 4-5=-1832/791, 7-8=-1833/792, 8-10=-2262/826, 10-11=-2577/927
 BOT CHORD 1-17=-711/2337, 16-17=-711/2337, 13-16=-438/1920, 12-13=-700/2242, 11-12=-700/2242
 WEBS 4-16=-102/725, 8-13=-98/716, 5-18=-1934/687, 7-18=-1934/687, 10-13=-685/322, 2-16=-710/332

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-7-9, Exterior(2) 16-7-9 to 21-0-5, Interior(1) 21-0-5 to 33-0-4 zone; cantilever right exposed :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=236, 11=236.



December 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482501
J0322-1174	C1	COMMON	3	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:14 2021 Page 1
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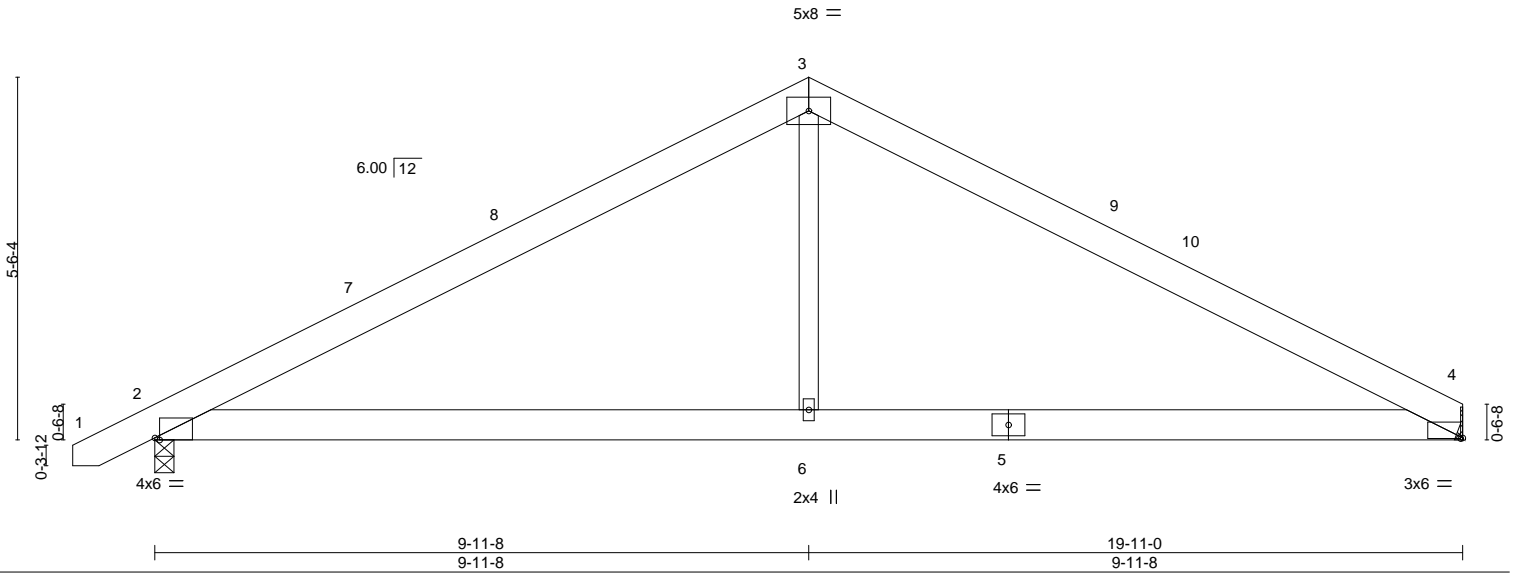


Plate Offsets (X,Y)-- [2:0-0-14,Edge], [4:0-0-6,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.06	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.13	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	2-6	>999	240		
							Weight: 109 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 5-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8
Max Horz 2=98(LC 11)
Max Uplift 4=-141(LC 13), 2=-169(LC 12)
Max Grav 4=786(LC 1), 2=862(LC 1)

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

TOP CHORD 2-3=-1135/451, 3-4=-1130/465
BOT CHORD 2-6=-238/896, 4-6=-238/896
WEBS 3-6=0/482

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 19-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=141, 2=169.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

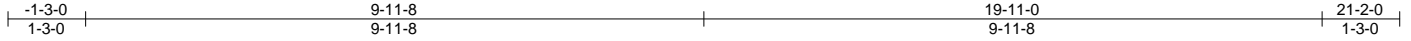


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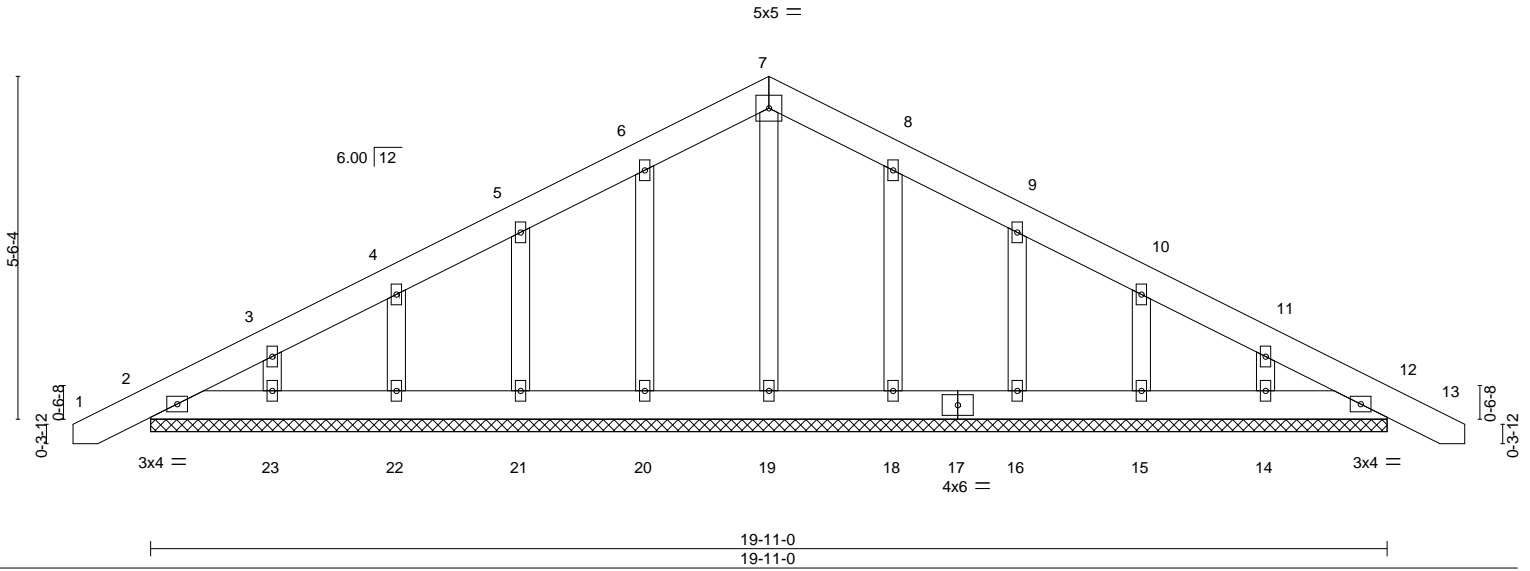
Job J0322-1174	Truss C1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Lot 21 Oak Haven	E16482502
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Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:15 2021 Page 1
ID:3N443qrVo5ReszoeZuaaJL3zGYtF-IC8L5fuRH4tbA7H98n81PISGkuOmJPyeenavby9NWy



Scale = 1:37.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.00 12 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 138 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 2=148(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 12 except 20=101(LC 12), 21=113(LC 12), 22=109(LC 12), 23=103(LC 12), 16=115(LC 13), 15=109(LC 13), 14=101(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18, 16, 15, 14, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 12 except (jt=lb) 20=101, 21=113, 22=109, 23=103, 16=115, 15=109, 14=101.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

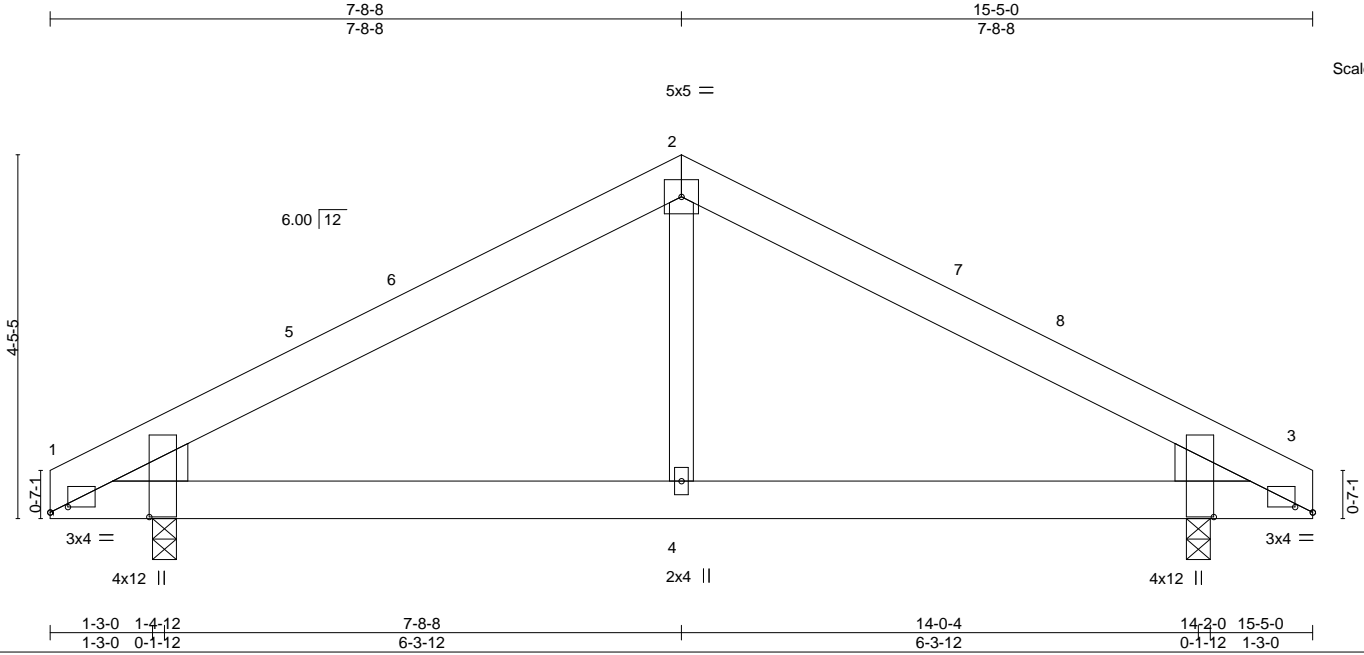


December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482503
J0322-1174	D1	COMMON	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:16 2021 Page 1
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-mPhjJ?u32O?SoHsMiVfGldZB78XVI56tlX8R1y9NWX



Scale = 1:28.1

Plate Offsets (X,Y)-- [1:0-2-9,0-0-13], [1:0-0-11,1-2-8], [3:0-2-9,0-0-13], [3:0-0-11,1-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.02	1-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.05	1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	1-4	>999	240	Weight: 87 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-69(LC 8)
 Max Uplift 1=-108(LC 12), 3=-108(LC 13)
 Max Grav 1=605(LC 1), 3=605(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-856/397, 2-3=-856/397
 BOT CHORD 1-4=-206/672, 3-4=-206/672
 WEBS 2-4=0/369

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 7-8-8, Exterior(2) 7-8-8 to 12-1-5, Interior(1) 12-1-5 to 15-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=108, 3=108.



December 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

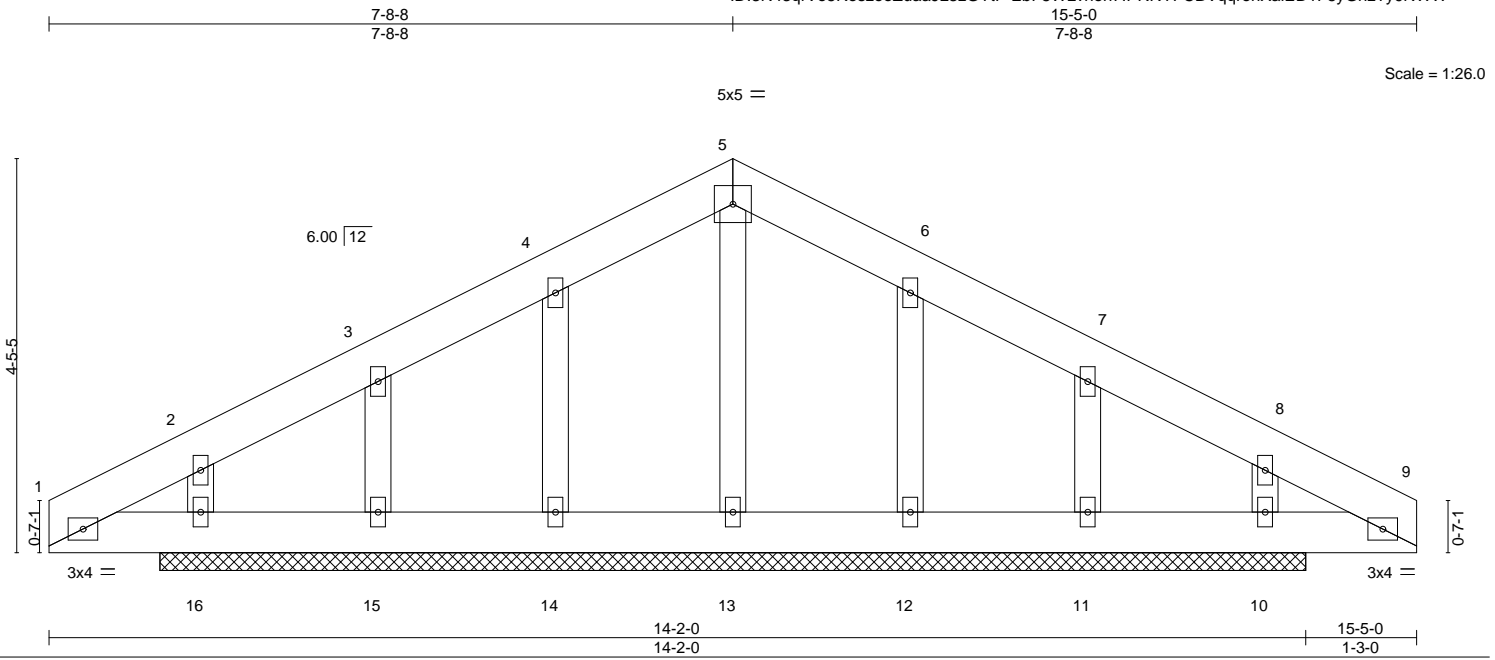


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482504
J0322-1174	D1GE	COMMON SUPPORTED GAB	1	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:17 2021 Page 1
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-EbF5WLvhoh7IPRRYFCBVqrohXaiED1F5yGhzTy9NWW



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)	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 0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 12-11-0.
 (lb) - Max Horz 16=107(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 16, 12, 10 except 15=143(LC 12), 11=135(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 16, 12, 10 except (jt=lb) 15=143, 11=135.
 - Non Standard bearing condition. Review required.

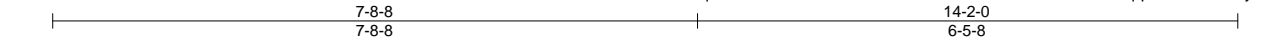


December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482505
J0322-1174	D2	COMMON	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:17 2021 Page 1
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-EbF5WLvhoh7IPRRYFCBVqqrkIXUECUF5yGhzTy9NWW



Scale = 1:27.5

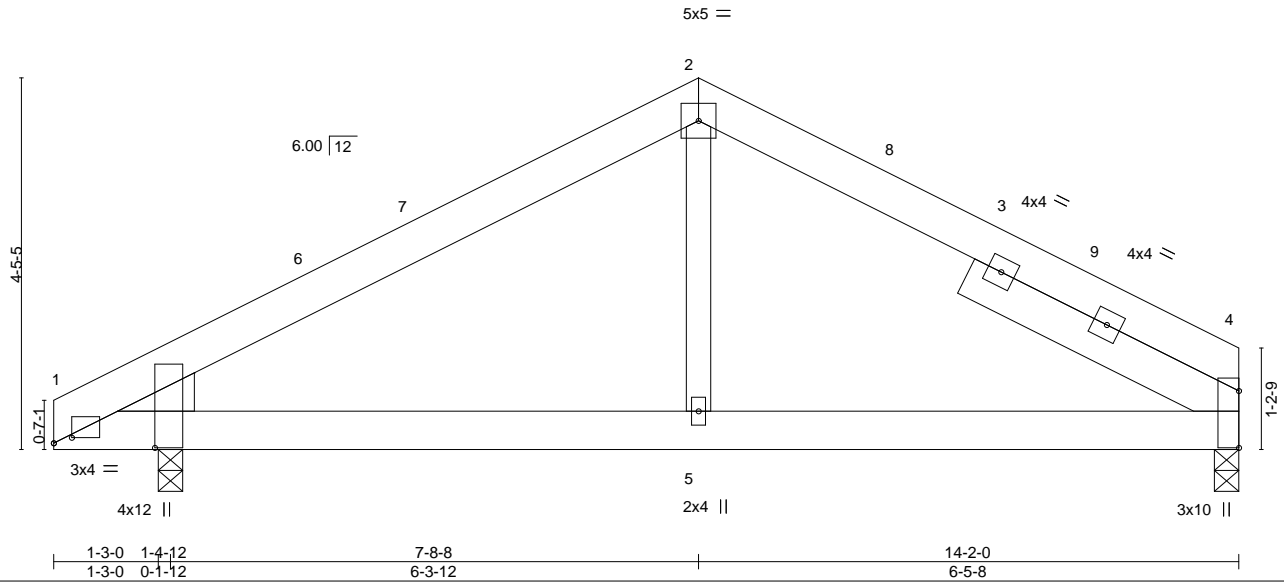


Plate Offsets (X,Y)-- [1:0-0-11,1-2-8], [1:0-2-9,0-0-13], [4:Edge,0-0-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.02	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.05	1-5	>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-S	Wind(LL) 0.02	1-5	>999	240	Weight: 87 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.1
 SLIDER Right 2x6 SP No.1 3-7-10

BRACING-

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

REACTIONS.

(size) 4=0-3-8, 1=0-3-8
 Max Horz 1=-69(LC 8)
 Max Uplift 4=-94(LC 13), 1=-103(LC 12)
 Max Grav 4=561(LC 1), 1=561(LC 1)

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

TOP CHORD 1-2=-738/359, 2-4=-737/388
 BOT CHORD 1-5=-163/564, 4-5=-163/564
 WEBS 2-5=0/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 7-8-8, Exterior(2) 7-8-8 to 12-1-5, Interior(1) 12-1-5 to 14-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=103.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

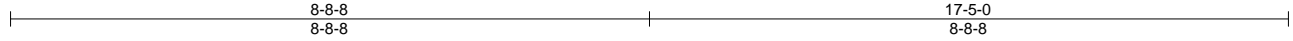


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482506
J0322-1174	G1	COMMON	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:18 2021 Page 1
ID:3N443qrVo5ReszoeZuaaJL3zGYtF-jnpTkhWJZ?F91b0kpvikN2NuFxoEzFPOKc0EVvy9NWV



Scale = 1:31.4

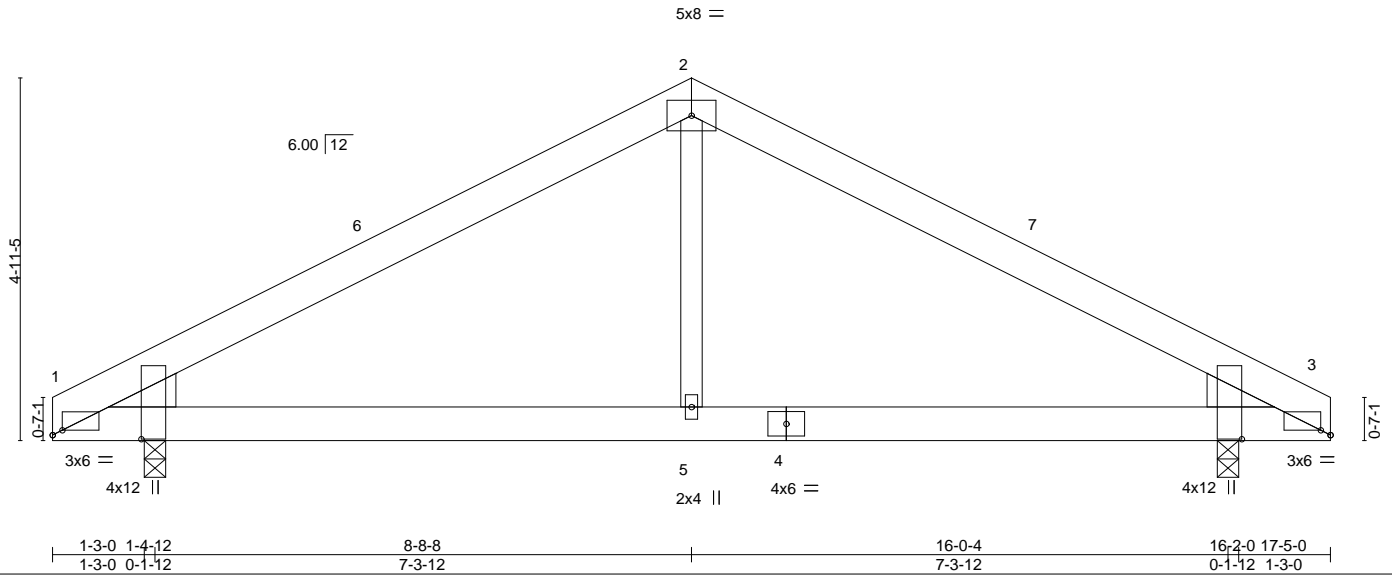


Plate Offsets (X,Y)-- [1:0-1-9,Edge], [1:0-0-11,1-2-8], [3:0-1-9,Edge], [3:0-0-11,1-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.03	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.07	1-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	1-5	>999	240	Weight: 97 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

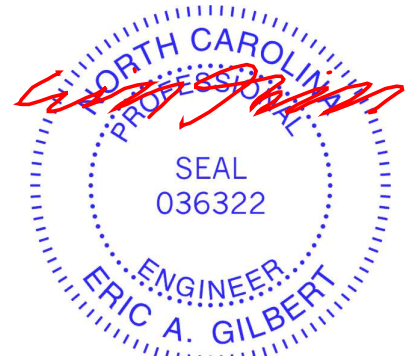
(size) 1=0-3-8, 3=0-3-8
 Max Horz 1=77(LC 9)
 Max Uplift 1=123(LC 12), 3=123(LC 13)
 Max Grav 1=685(LC 1), 3=685(LC 1)

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

TOP CHORD 1-2=-974/417, 2-3=-974/411
 BOT CHORD 1-5=-212/767, 3-5=-212/767
 WEBS 2-5=0/419

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-8-8, Exterior(2) 8-8-8 to 13-1-5, Interior(1) 13-1-5 to 17-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=123, 3=123.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

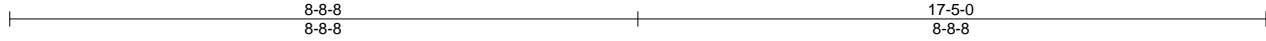


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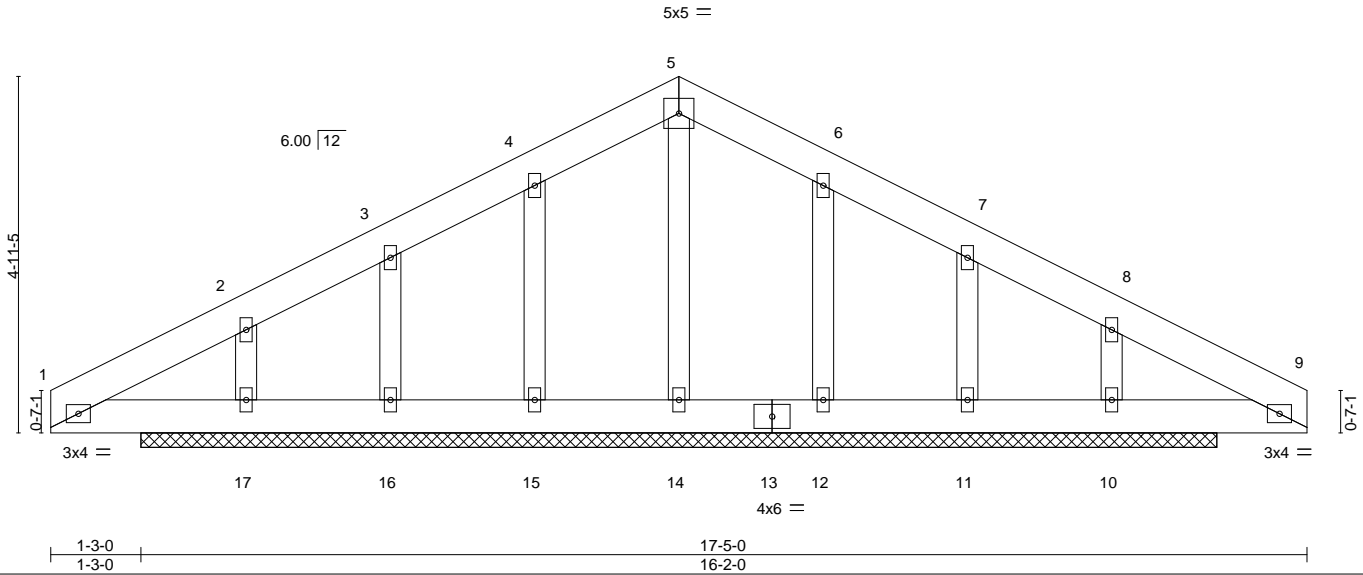
Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482507
J0322-1174	G1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:19 2021 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYIF-B_Nsx1xyKJO0fIbxNdDzwFw7eLFni60YZGlo2My9NWU



Scale: 3/8"=1'



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 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 111 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-11-0.
(lb) - Max Horz 17=-120(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 15 except 16=-127(LC 12), 17=-120(LC 12), 12=-100(LC 13), 11=-121(LC 13), 10=-128(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15, 16, 12, 11 except 14=256(LC 1), 17=327(LC 23), 10=327(LC 24)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 16=127, 17=120, 12=100, 11=121, 10=128.
- Non Standard bearing condition. Review required.



December 14, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482508
J0322-1174	G2	COMMON	5	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:19 2021 Page 1
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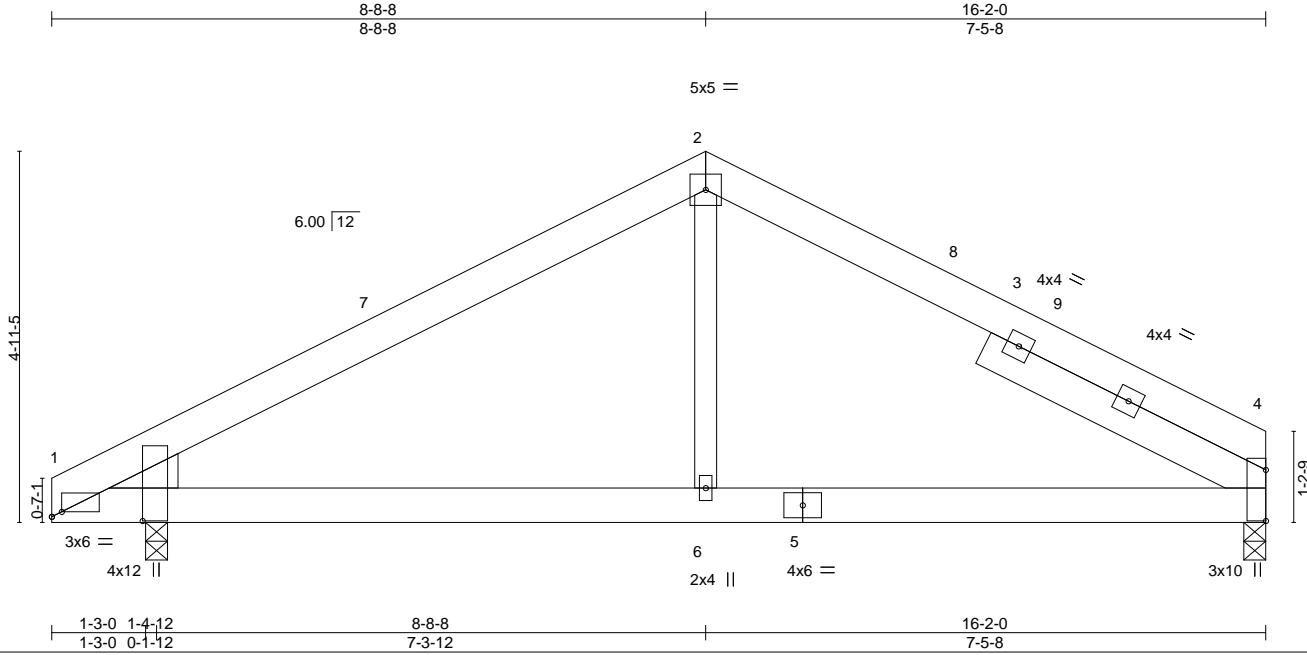


Plate Offsets (X,Y)-- [1:0-0-11,1-2-8], [1:0-1-9,Edge], [4:Edge,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.04	1-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.08	1-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	1-6	>999	240	Weight: 99 lb	FT = 20%

LUMBER-

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

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.

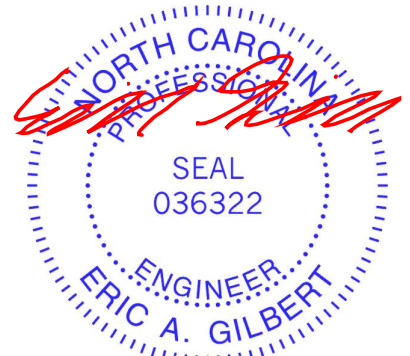
(size) 4=0-3-8, 1=0-3-8
 Max Horz 1=-77(LC 10)
 Max Uplift 4=-109(LC 13), 1=-118(LC 12)
 Max Grav 4=641(LC 1), 1=641(LC 1)

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

TOP CHORD 1-2=-854/380, 2-4=-851/401
 BOT CHORD 1-6=-174/657, 4-6=-174/657
 WEBS 2-6=0/381

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-8-8, Exterior(2) 8-8-8 to 13-1-5, Interior(1) 13-1-5 to 16-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=109, 1=118.



December 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



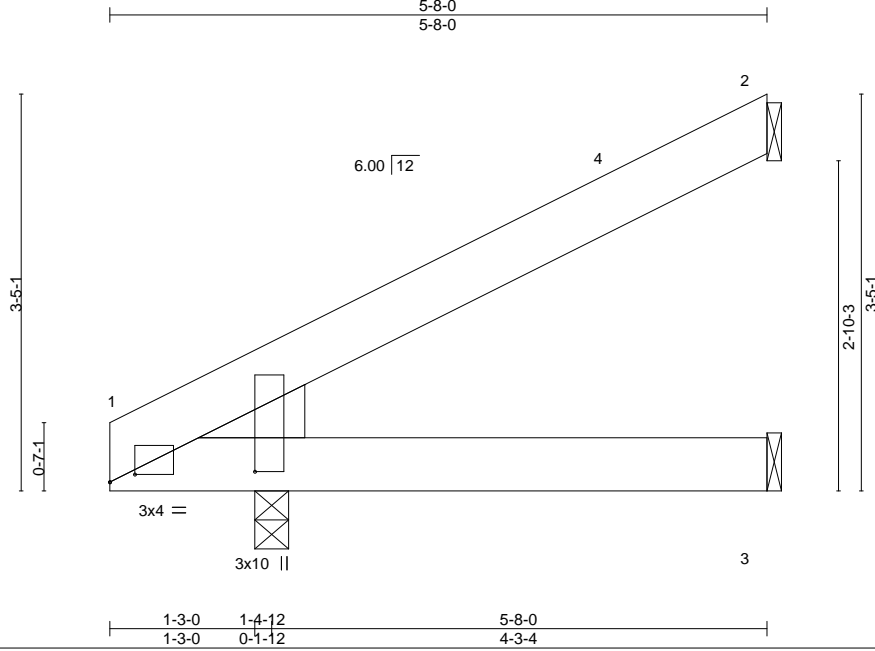
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482509
J0322-1174	X1	JACK-OPEN	19	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:20 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYf-fAxE8Nxa5cWtGvA7xKkCSTTGsla2RaNhowVLaoy9NWT



Scale = 1:19.9

Plate Offsets (X,Y)-- [1:0-2-9,0-0-13], [1:0-1-1,1-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01	1-3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02	1-3	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	1	****	240		
							Weight: 31 lb	FT = 20%

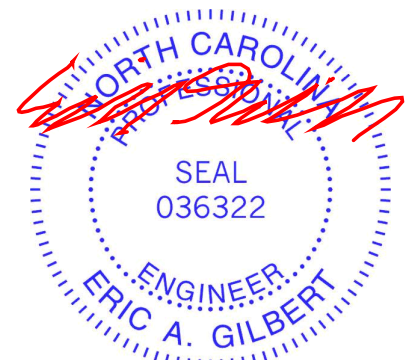
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-3-8
Max Horz 1=126(LC 12)
Max Uplift 2=-119(LC 12), 1=-19(LC 12)
Max Grav 2=164(LC 1), 3=109(LC 3), 1=218(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 5-7-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) 1 except (jt=lb) 2=119.

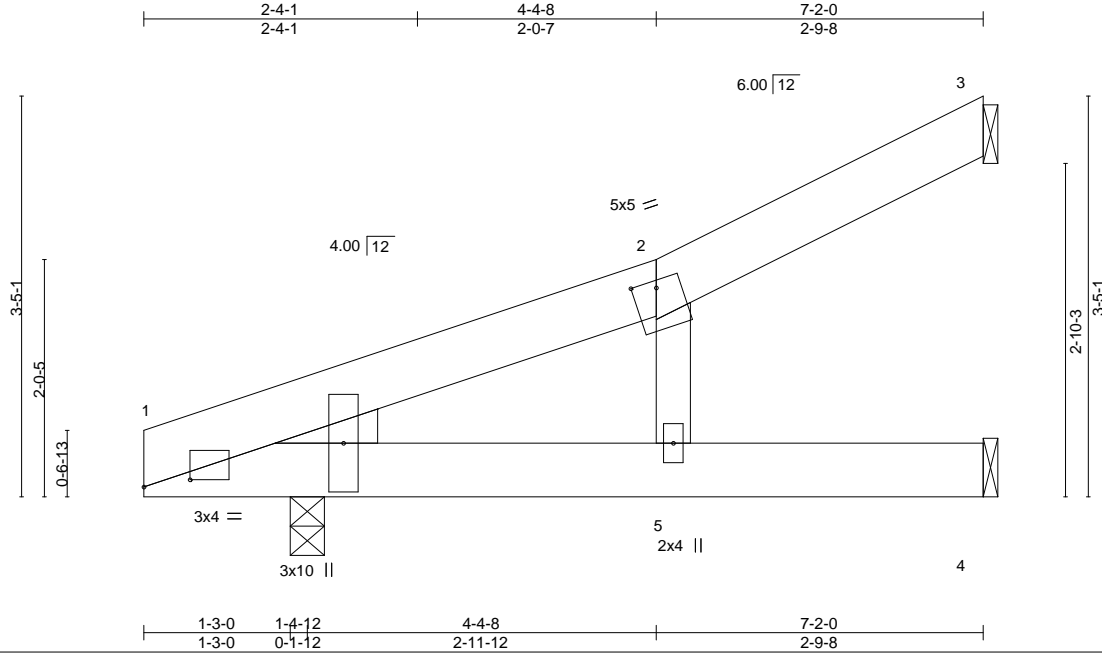


December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482510
J0322-1174	X1A	JACK-OPEN	6	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:20 2021 Page 1
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Scale = 1:19.7

Plate Offsets (X,Y)--	[1:0-4-12,0-0-12], [2:0-2-8,0-0-12]
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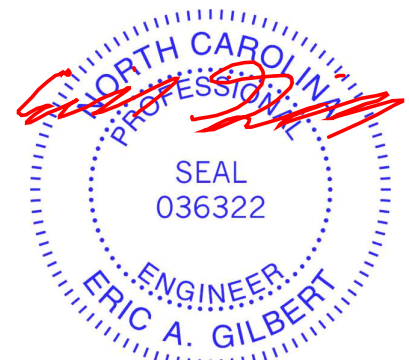
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	-0.04	1-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.36	Vert(CT)	-0.10	1-5	>844		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.07	1-5	>999	Weight: 39 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-3-8
 Max Horz 1=126(LC 12)
 Max Uplift 3=-57(LC 12), 4=-36(LC 12), 1=-41(LC 12)
 Max Grav 3=82(LC 1), 4=196(LC 1), 1=278(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-4-8, Interior(1) 4-4-8 to 7-1-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 1.

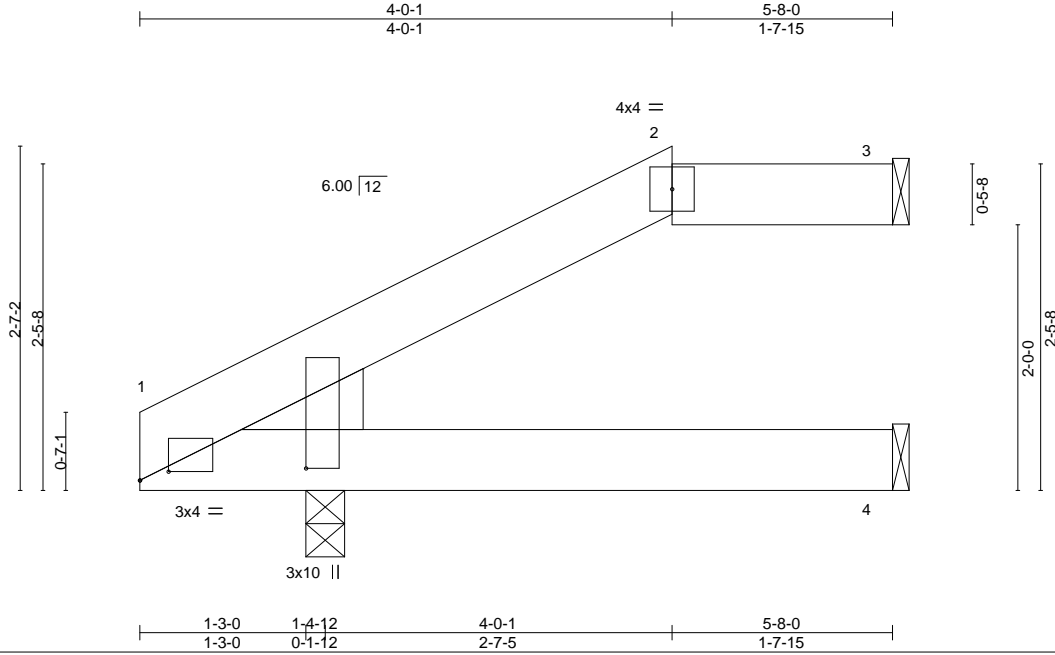


December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482511
J0322-1174	X2	JACK-OPEN	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:21 2021 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-7MVcMjyCsweku2JU2FR?g?SN8v_A1dr0aFv6Ey9NWS



Scale = 1:17.3

Plate Offsets (X,Y)-- [1:0-2-9,0-0-13], [1:0-1-1,1-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.01	1-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02	1-4	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02	3	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02	1-4	>999	240		Weight: 30 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-3-8
Max Horz 1=87(LC 12)
Max Uplift 3=66(LC 9), 1=33(LC 12)
Max Grav 3=149(LC 1), 4=104(LC 3), 1=218(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

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

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482512
J0322-1174	X3	JACK-OPEN GIRDER	1	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:22 2021 Page 1
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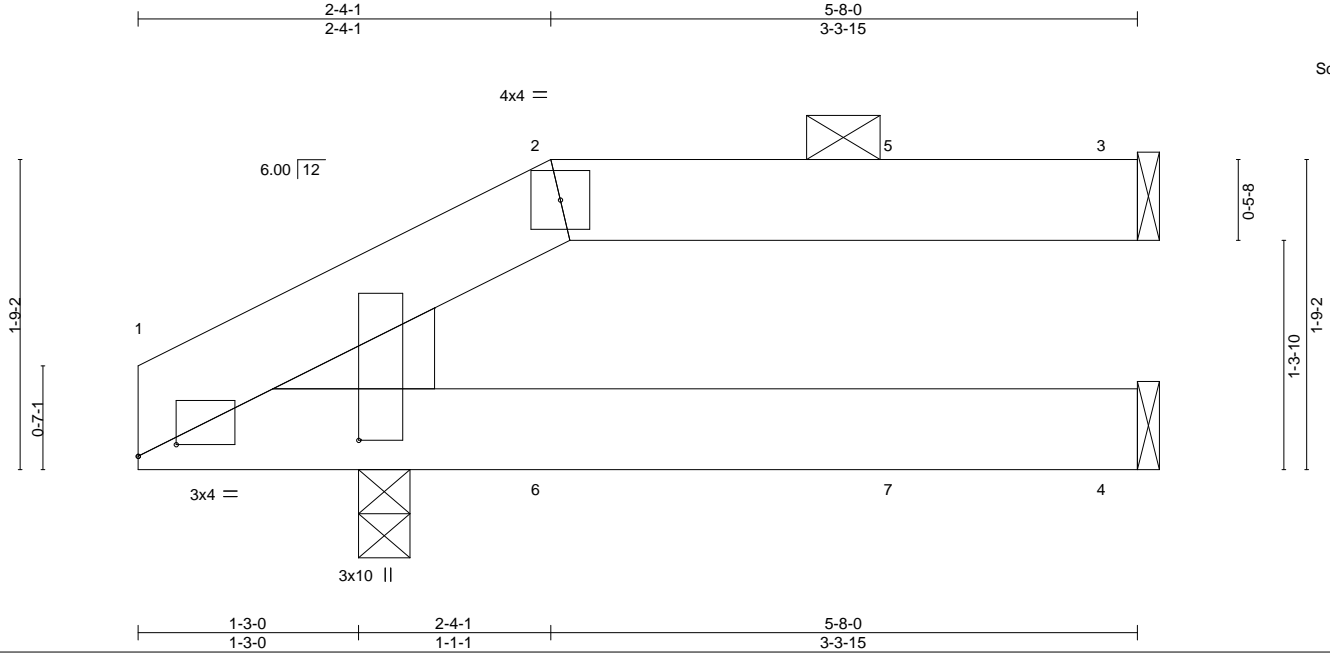


Plate Offsets (X,Y)-- [1:0-2-9,0-0-13], [1:0-1-1,1-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.01	1-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02	1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	1-4	>999	240	Weight: 30 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-3-8
 Max Horz 1=56(LC 8)
 Max Uplift 3=76(LC 5), 1=40(LC 8)
 Max Grav 3=170(LC 1), 4=117(LC 3), 1=239(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=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; 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) 3, 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 42 lb up at 2-4-12, and 34 lb down and 42 lb up at 4-4-12 on top chord, and 14 lb down at 2-4-12, and 14 lb down at 4-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 1-4=-20

Concentrated Loads (lb)
 Vert: 2=-19(F) 5=-19(F) 6=-6(F) 7=-6(F)



December 14, 2021

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

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482513
J0322-1174	XB1	JACK-OPEN	4	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:23 2021 Page 1

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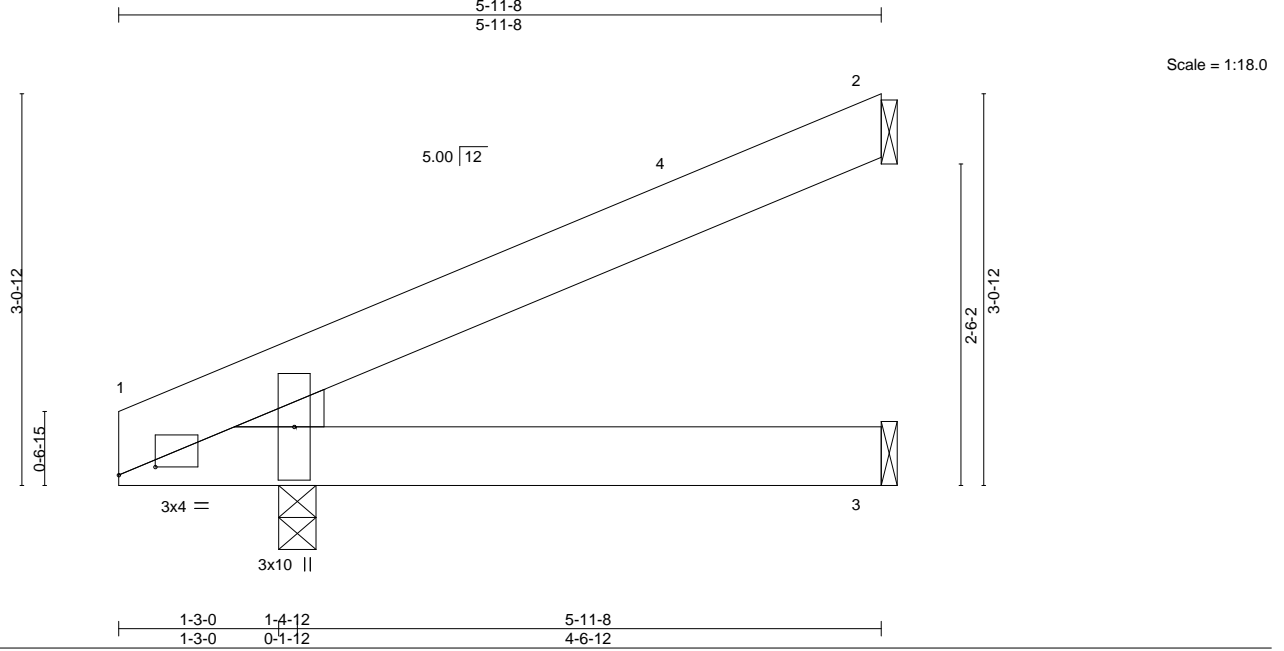


Plate Offsets (X,Y)--	[1:0-3-7,0-0-12]
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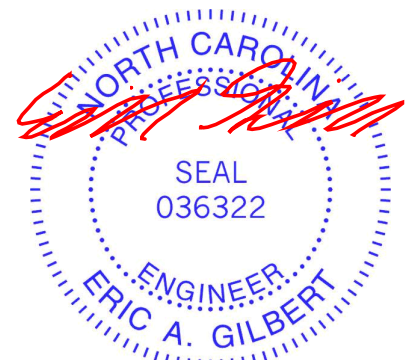
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01	1-3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.03	1-3	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	1	****	240	Weight: 30 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-3-8
 Max Horz 1=111(LC 12)
 Max Uplift 2=115(LC 12), 1=31(LC 12)
 Max Grav 2=173(LC 1), 3=115(LC 3), 1=230(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 5-10-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) 1 except (jt=lb) 2=115.



December 14, 2021

Job J0322-1174	Truss XB1-GR	Truss Type JACK-CLOSED GIRDER	Qty 1	Ply 2	Lot 21 Oak Haven Job Reference (optional)	E16482514
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Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 09:03:42 2021 Page 1
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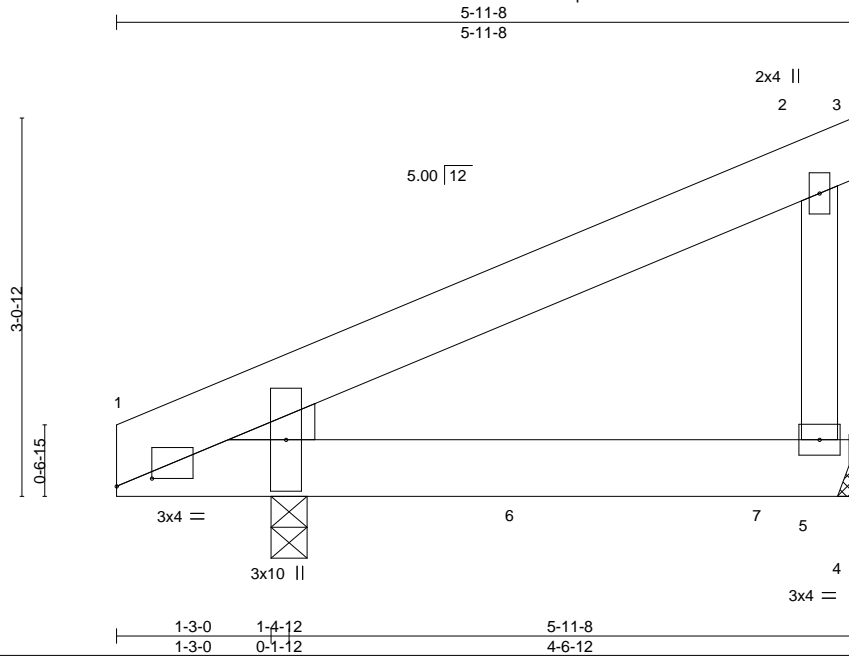


Plate Offsets (X,Y)-- [1:0-3-7,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.04	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.09	1-5	>743	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.04	1-5	>999	240		
							Weight: 67 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 5-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=1388/Mechanical, 1=602/0-3-8 (min. 0-1-8)
Max Horz 1=111(LC 8)
Max Uplift 5=-311(LC 8), 1=-104(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-74/54, 2-3=-2/0
BOT CHORD 1-6=0/0, 6-7=0/0, 5-7=0/0, 4-5=0/0
WEBS 2-5=-172/119

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 5 and 104 lb uplift at joint 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 766 lb down and 161 lb up at 3-3-12, and 770 lb down and 158 lb up at 5-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-20, 1-4=-20



December 14, 2021

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J0322-1174	Truss XB1-GR	Truss Type JACK-CLOSED GIRDER	Qty 1	Ply 2	Lot 21 Oak Haven Job Reference (optional)	E16482514
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Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 09:03:43 2021 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6--766(B) 7--770(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482515
J0322-1174	XB2	JACK-OPEN GIRDER	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:24 2021 Page 1
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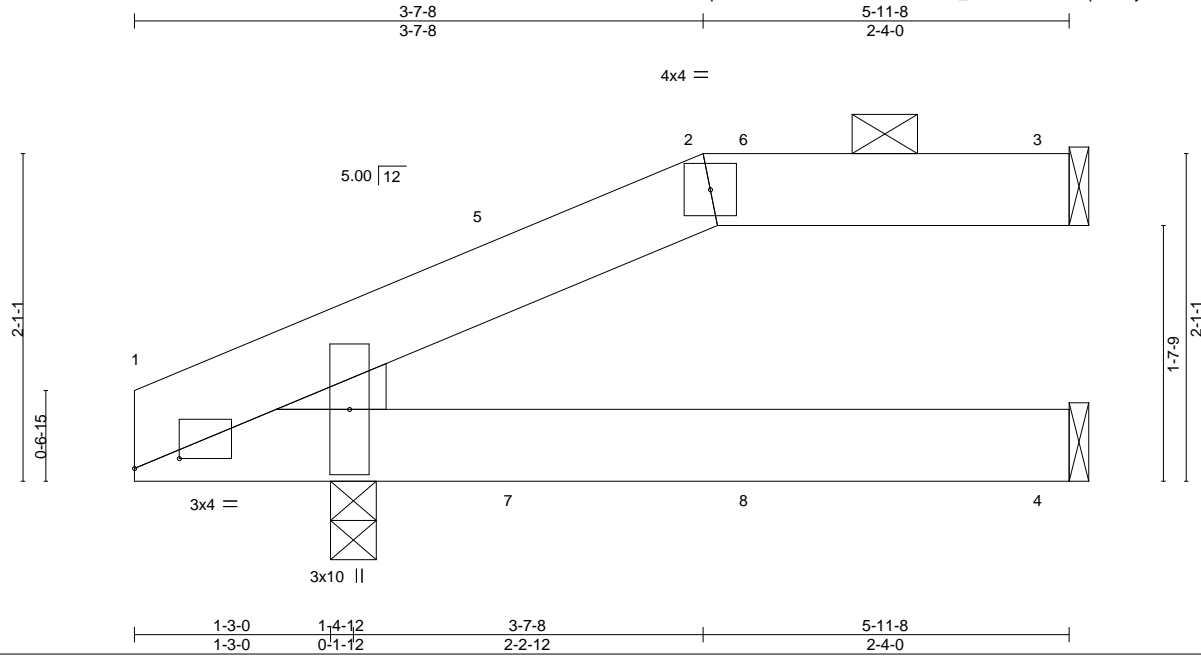


Plate Offsets (X,Y)-- [1:0-3-7,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.01	1-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03	1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	1-4	>999	240	Weight: 30 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 5-11-8 oc purlins, except 2-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 1=0-3-8
Max Horz 1=71(LC 8)
Max Uplift 3=-79(LC 5), 1=-39(LC 8)
Max Grav 3=178(LC 1), 4=124(LC 3), 1=259(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 29 lb up at 2-6-4, and 37 lb down and 49 lb up at 4-0-4 on top chord, and 17 lb down at 2-6-4, and 16 lb down at 4-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-4=-20
Concentrated Loads (lb)
Vert: 5=-16(F) 6=-24(F) 7=-16(F) 8=-8(F)



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



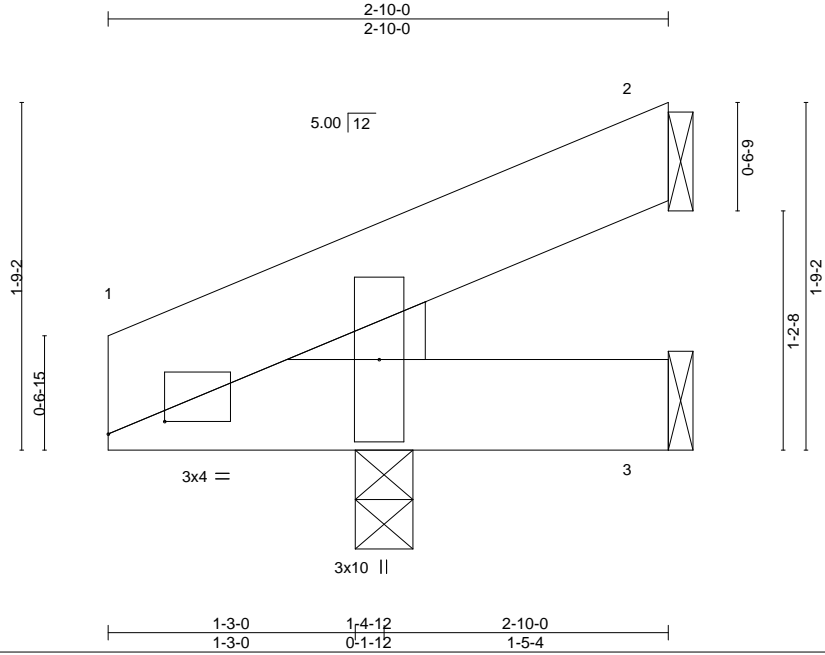
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482516
J0322-1174	Y1	JACK-OPEN	2	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:25 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-77k7C4?iw98Ang24jtKN9WA96mIf6rcQxBDF?y9NW0



Scale = 1:11.7

Plate Offsets (X,Y)--	[1:0-3-7,0-0-12]
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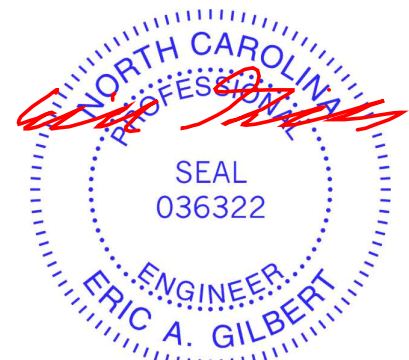
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	1	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1-3	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	1	****	240	Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-3-8
 Max Horz 1=54(LC 12)
 Max Uplift 2=54(LC 12), 1=12(LC 12)
 Max Grav 2=79(LC 1), 3=53(LC 3), 1=105(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 2, 1.



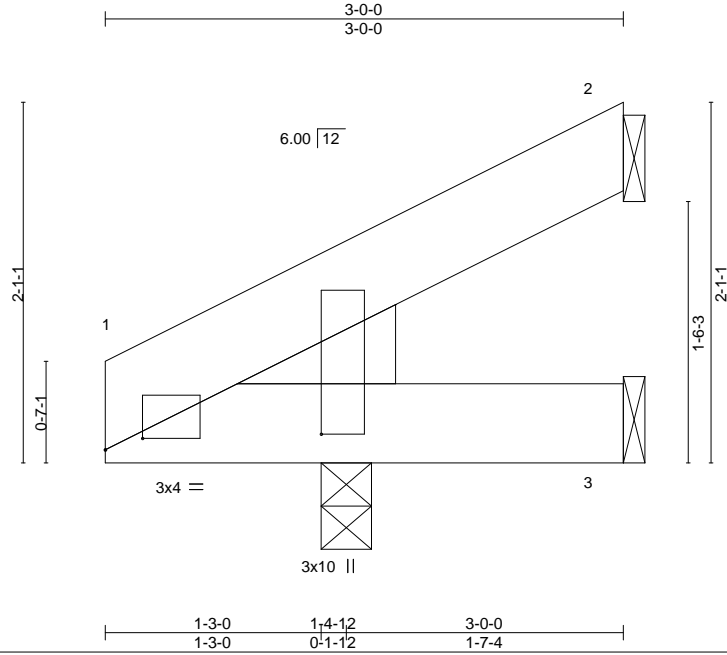
December 14, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482517
J0322-1174	YB1	JACK-OPEN	1	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:25 2021 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-?7k7C4?iw98ANg24jtKN9WA9Amlc6rcQxBDF?y9NWO



Scale = 1:13.3

Plate Offsets (X,Y)-- [1:0-2-9,0-0-13], [1:0-1-1,1-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	-0.00	1	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	1-3	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	1	****	Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-3-8
Max Horz 1=68(LC 12)
Max Uplift 2=63(LC 12), 1=8(LC 12)
Max Grav 2=84(LC 1), 3=56(LC 3), 1=112(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) 2, 1.



December 14, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

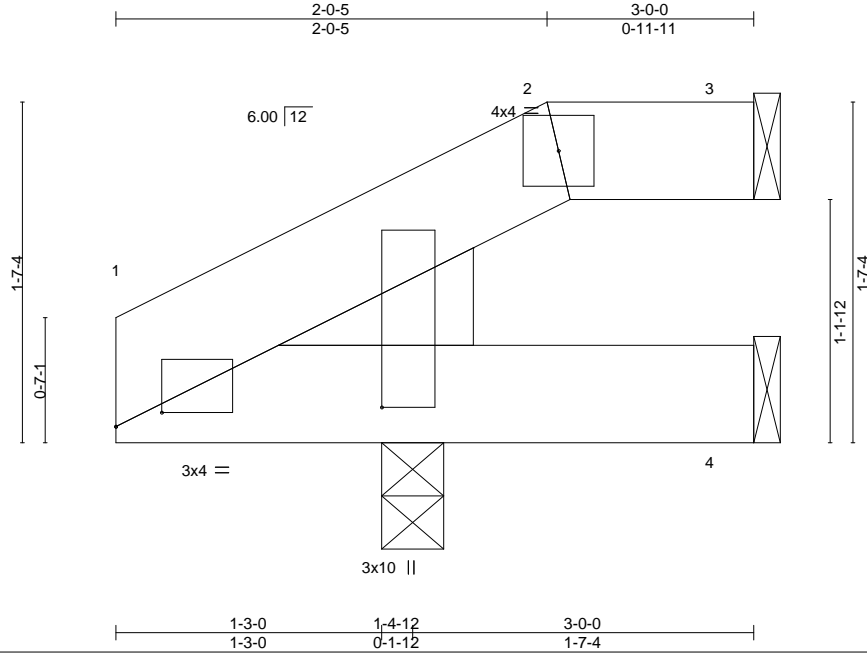


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 21 Oak Haven	E16482518
J0322-1174	YB2	JACK-OPEN	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 13 12:37:26 2021 Page 1
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Scale = 1:10.8

Plate Offsets (X,Y)-- [1:0-2-9,0-0-13], [1:0-1-1,1-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00	1	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	1-4	>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	1-4	>999	240	Weight: 17 lb	FT = 20%

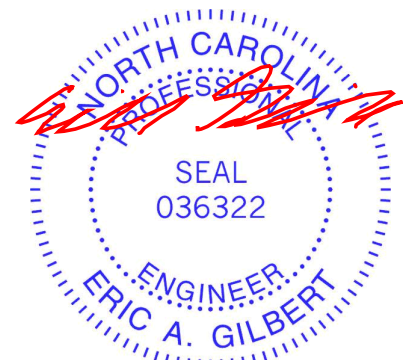
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEDGE
 Left: 2x6 SP No.1

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-3-8
 Max Horz 1=50(LC 12)
 Max Uplift 3=35(LC 9), 1=-15(LC 12)
 Max Grav 3=76(LC 1), 4=53(LC 3), 1=112(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 14, 2021

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/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.