ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J0323-1298
Lot 83 South Creek

Site Information:

Customer: Project Name: J0323-1298
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	I52713890	A01-GR	6/24/2022	21	I52713910	B6	6/24/2022
2	I52713891	A02	6/24/2022	22	I52713911	B7	6/24/2022
3	I52713892	A03	6/24/2022	23	I52713912	B8	6/24/2022
4	I52713893	A04	6/24/2022	24	I52713913	C1	6/24/2022
5	I52713894	A05	6/24/2022	25	I52713914	C1GE	6/24/2022
6	I52713895	A06	6/24/2022	26	I52713915	D1	6/24/2022
7	I52713896	A07	6/24/2022	27	I52713916	D1GE	6/24/2022
8	I52713897	A08	6/24/2022	28	I52713917	D2	6/24/2022
9	I52713898	A08A	6/24/2022	29	I52713918	G1	6/24/2022
10	I52713899	A09	6/24/2022	30	I52713919	G1GE	6/24/2022
11	I52713900	A10	6/24/2022	31	I52713920	G2	6/24/2022
12	I52713901	A11	6/24/2022	32	I52713921	X1	6/24/2022
13	I52713902	A12	6/24/2022	33	I52713922	X1A	6/24/2022
14	I52713903	A13	6/24/2022	34	I52713923	X2	6/24/2022
15	I52713904	A14-GR	6/24/2022	35	I52713924	X3	6/24/2022
16	I52713905	B1-GR	6/24/2022	36	I52713925	XB1	6/24/2022
17	I52713906	B2	6/24/2022	37	I52713926	XB1-GR	6/24/2022
18	I52713907	B3	6/24/2022	38	I52713927	XB2	6/24/2022
19	I52713908	B4	6/24/2022	39	I52713928	Y1	6/24/2022
20	I52713909	B5	6/24/2022	40	I52713929	YB1	6/24/2022

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, 2023.

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.

North Carolina Professional Engineer Seal 026322 — Eric A. Gilbert

June 24, 2022

1 of 2   Gilbert, Eric

ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J0323-1298 - Lot 83 South Creek

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: Project Name: J0323-1298
Lot/Block: Subdivision:
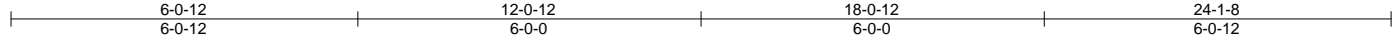Address:
City, County: State:
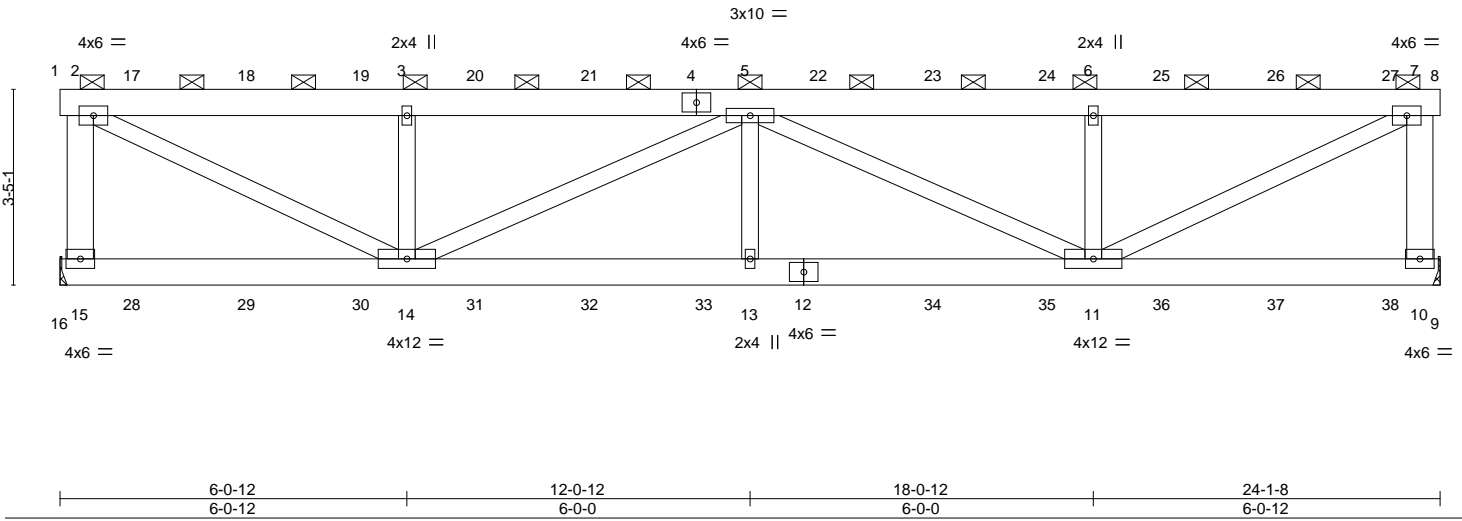
No.	Seal#	Truss Name	Date
41	I52713930	YB2	6/24/2022

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:34 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-rIP0c4Zs2mI7RcA59e1CXkMN1u0UVrENHbCdrjz3Rp3

6-0-12	12-0-12	18-0-12	24-1-8
6-0-12	6-0-0	6-0-0	6-0-12

Scale = 1:40.3

6-0-12	12-0-12	18-0-12	24-1-8
6-0-12	6-0-0	6-0-0	6-0-12

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.07	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.13	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.08	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.
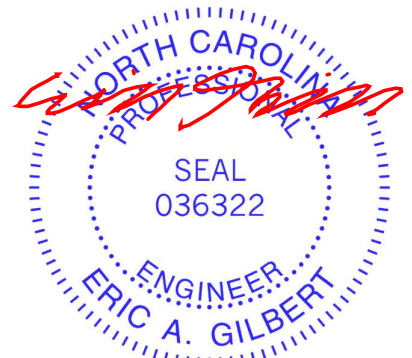
REACTIONS.   (size) 15=Mechanical, 10=Mechanical
             Max Uplift 15=-647(LC 4), 10=-681(LC 5)
             Max Grav 15=1868(LC 1), 10=2088(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-15=-1720/690, 2-3=-2806/960, 3-5=-2806/960, 5-6=-2996/979, 6-7=-2996/979,
             7-10=-1726/632
BOT CHORD   13-14=-1308/3909, 11-13=-1308/3909
WEBS   2-14=-1021/2993, 3-14=-673/471, 5-14=-1230/390, 5-13=0/550, 5-11=-1018/369,
             6-11=-371/247, 7-11=-1040/3186

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
   ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=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
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 647 lb uplift at joint 15 and 681 lb uplift
   at joint 10.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A01-GR	FLAT GIRDER	1	**2**		I52713890
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:35 2022 Page 2
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-JUzOpQZUp3Q_3llHjMYR4yuYnIMjEHUWWFxANAz3Rp2

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 114 lb up at 1-3-4, 104 lb down and 114 lb up at
3-3-4, 104 lb down and 114 lb up at 5-3-4, 104 lb down and 114 lb up at 7-3-4, 104 lb down and 114 lb up at 9-3-4, 104 lb down and 114 lb up at 11-3-4, 40 lb down and
48 lb up at 13-3-4, 40 lb down and 48 lb up at 15-3-4, 40 lb down and 48 lb up at 17-3-4, 40 lb down and 48 lb up at 19-3-4, and 40 lb down and 48 lb up at 21-3-4, and
38 lb down and 52 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 at 9-3-4, 69 lb down
at 11-3-4, 176 lb down and 56 lb up at 13-3-4, 176 lb down and 56 lb up at 15-3-4, 176 lb down and 56 lb up at 17-3-4, 176 lb down and 56 lb up at 19-3-4, and 176 lb
down and 56 lb up at 21-3-4, and 178 lb down and 55 lb up at 23-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-7=-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)

ENGINEERING BY
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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

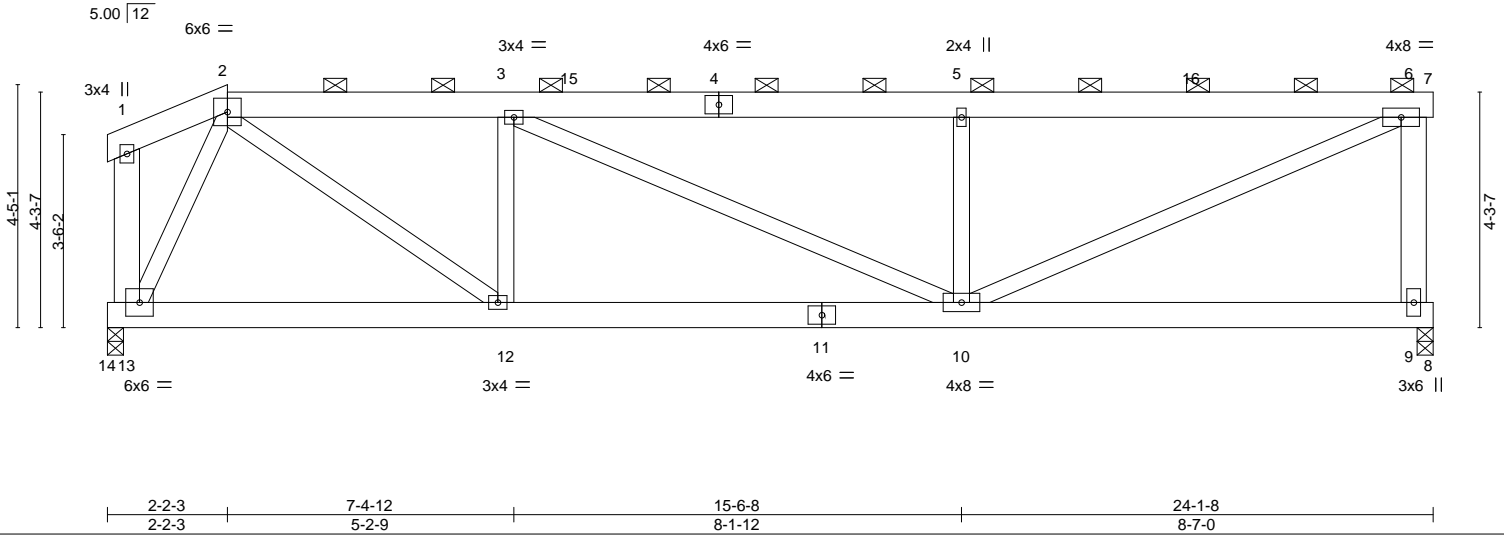| Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A02	HALF HIP	1	1		I52713891
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:36 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-nhXm1ma7aNYrhvKTH33gd9Rhmik0ze4glvhkvcz3Rp1

|		2-2-3		7-4-12		15-6-8		24-1-8	
		2-2-3		5-2-9		8-1-12		8-7-0	

Scale = 1:41.9

		2-2-3		7-4-12		15-6-8		24-1-8	
		2-2-3		5-2-9		8-1-12		8-7-0	

LOADING (psf)
TCLL   20.0
TCDL   10.0
BCLL   0.0 *
BCDL   10.0

SPACING-   2-0-0
Plate Grip DOL   1.15
Lumber DOL   1.15
Rep Stress Incr   YES
Code IRC2015/TPI2014

CSI.
TC   0.26
BC   0.24
WB   0.82
Matrix-S

DEFL.   in   (loc)   l/defl   L/d
Vert(LL)   -0.05 10-12   >999   360
Vert(CT)   -0.11 10-12   >999   240
Horz(CT)   0.01   9   n/a   n/a
Wind(LL)   0.05 10-12   >999   240

PLATES   **GRIP**
MT20   244/190

Weight: 178 lb   FT = 20%

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

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-
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) 0-4-4 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
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 244 lb uplift at joint 9 and 200 lb uplift at
   joint 13.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932
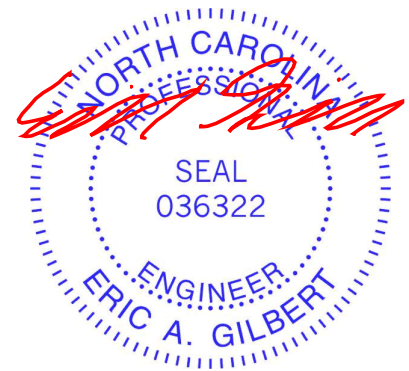
Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A03	HALF HIP	1	1		I52713892
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:37 2022 Page 1
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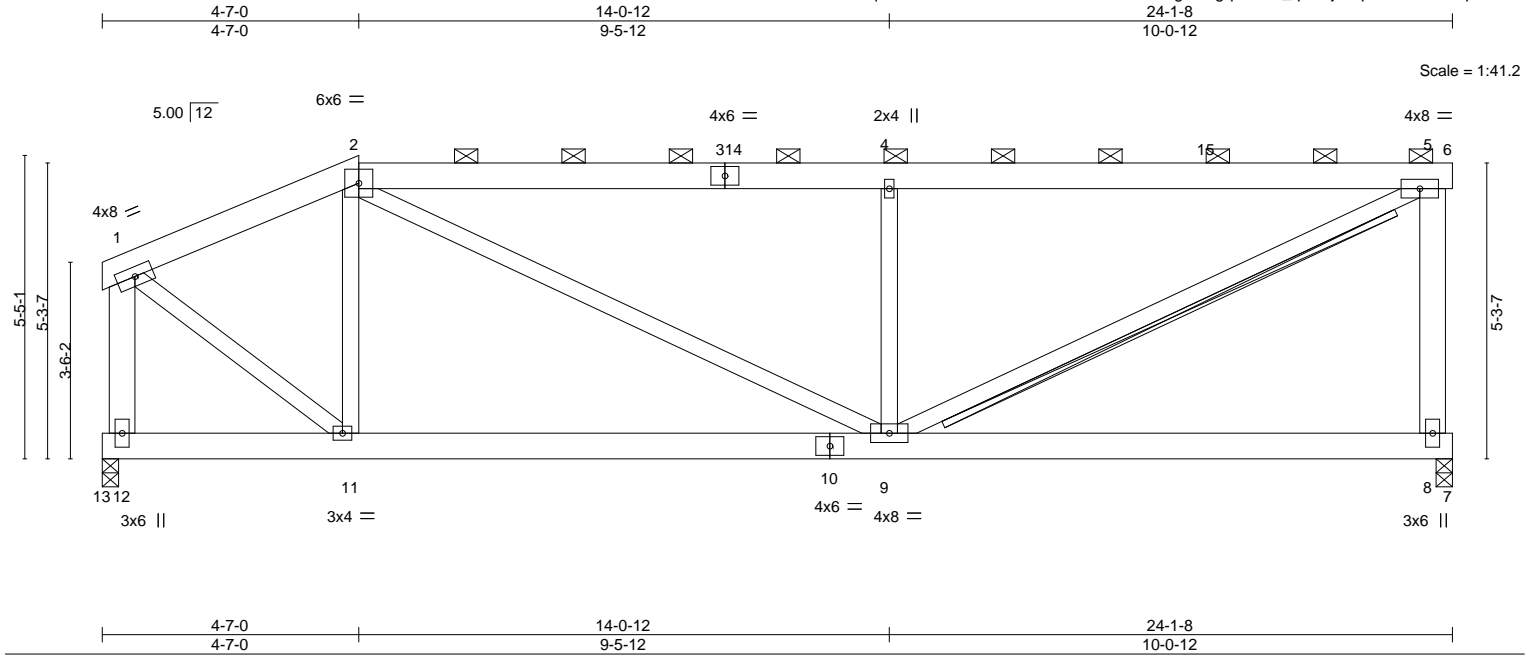
Scale = 1:41.2

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

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2 *Except*
            5-8,1-12: 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.): 2-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   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-
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) 0-4-4 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
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 246 lb uplift at joint 8 and 171 lb uplift at
   joint 12.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
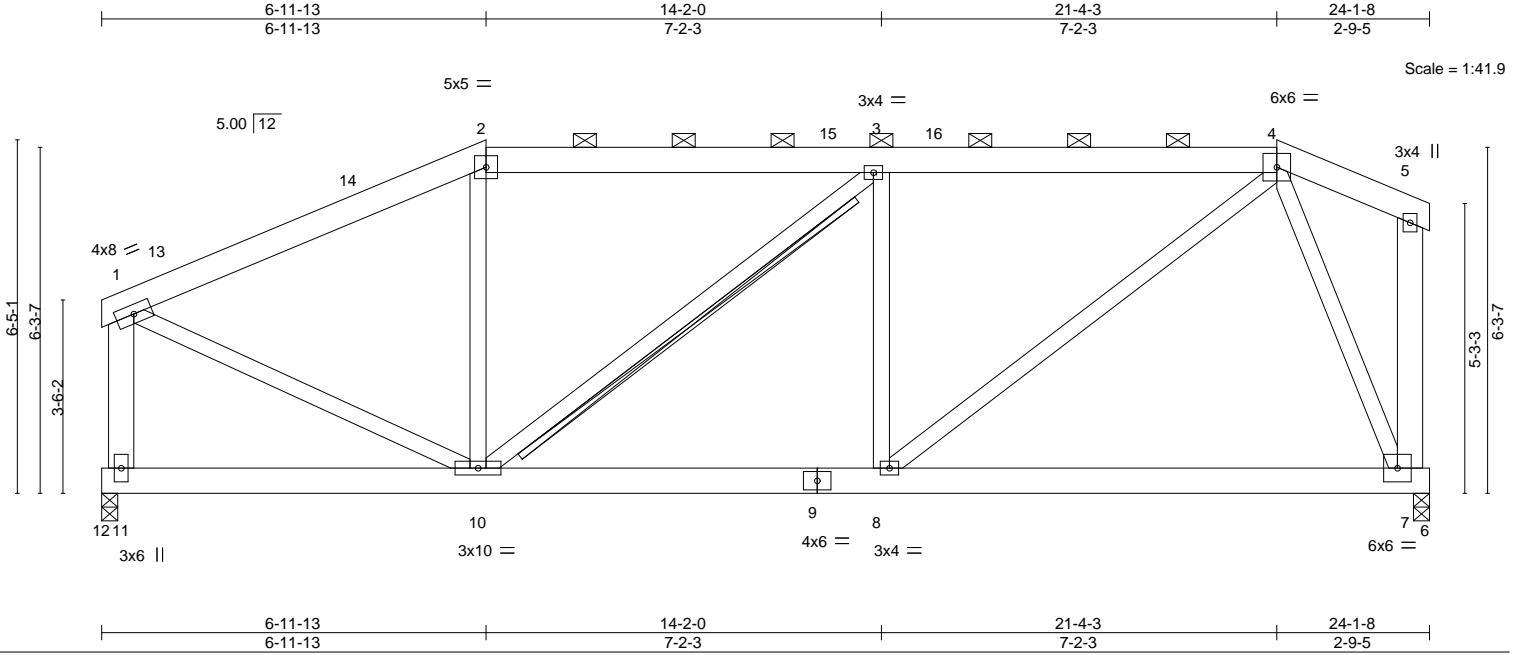
NORTH CAROLINA
PROFESSIONAL
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036322
ENGINEER
ERIC A. GILBERT

June 24,2022

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A04	HIP	1	1		I52713893
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:38 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-j3fXSScN6_oYwDUsOU58iaW2gVPBRcQyCDAq_Uz3Rp?

Scale = 1:41.9

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

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2 *Except*
              1-11,5-7: 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.): 2-4.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   T-Brace: 2x4 SPF No.2 - 3-10
             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-
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) 0-4-4 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
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 148 lb uplift at joint 11 and 196 lb uplift
   at joint 7.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	I52713894
J0323-1298	A05	HIP	1	1	Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:39 2022 Page 1
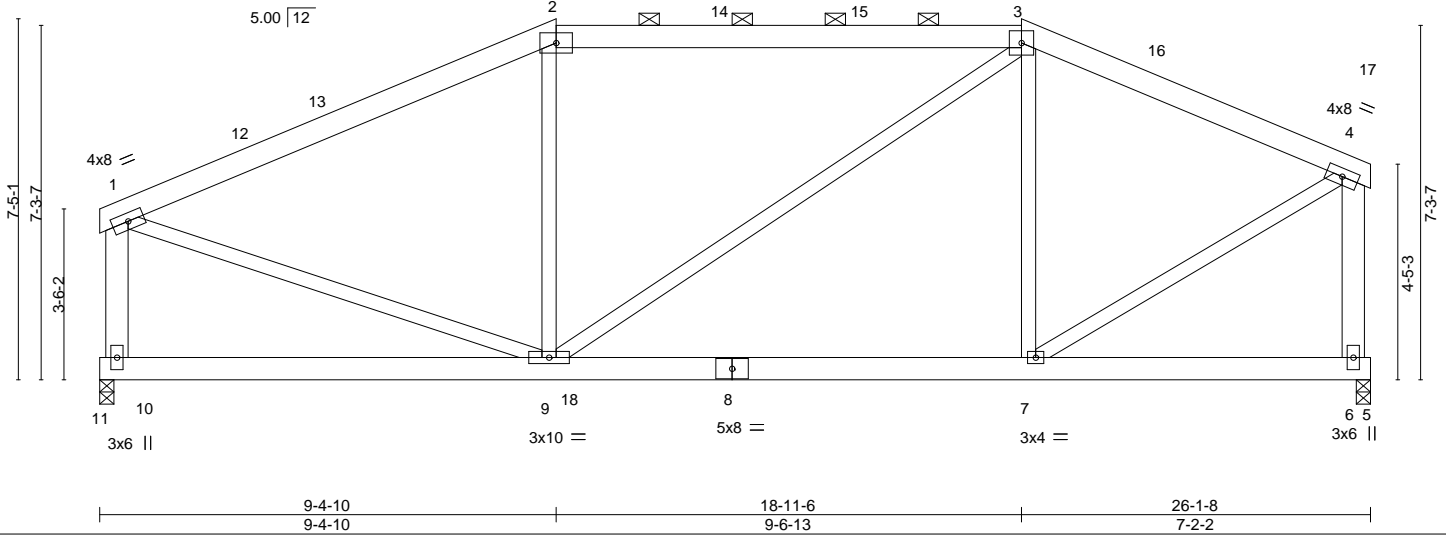ID:3N43qrVo5ReszoeZuaaJL3zGYtF-BGDvfoc?tIxPYN32yCdNEo39qvheA4K6RtvOWxz3Rp_

9-4-10 18-11-6 26-1-8
9-4-10 9-6-13 7-2-2

Scale = 1:47.4

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

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

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-
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) 0-4-4 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 10 and 162 lb uplift at joint 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:40 2022 Page 1
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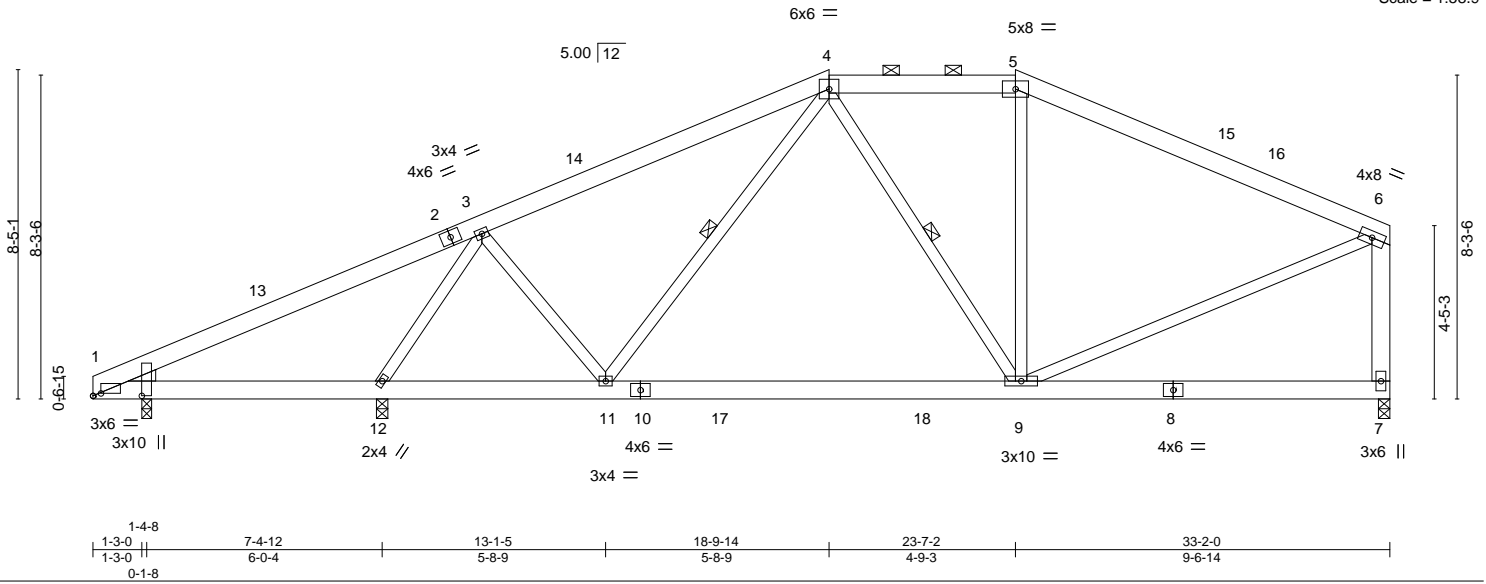
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Plate Offsets (X,Y)-- [1:0-2-7,0-0-12], [1:0-0-0,1-2-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.18	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-
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) 0-1-8 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 12, 160 lb uplift at joint 7 and 23 lb uplift at joint 1.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A07	COMMON	7	1		I52713896
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:41 2022 Page 1
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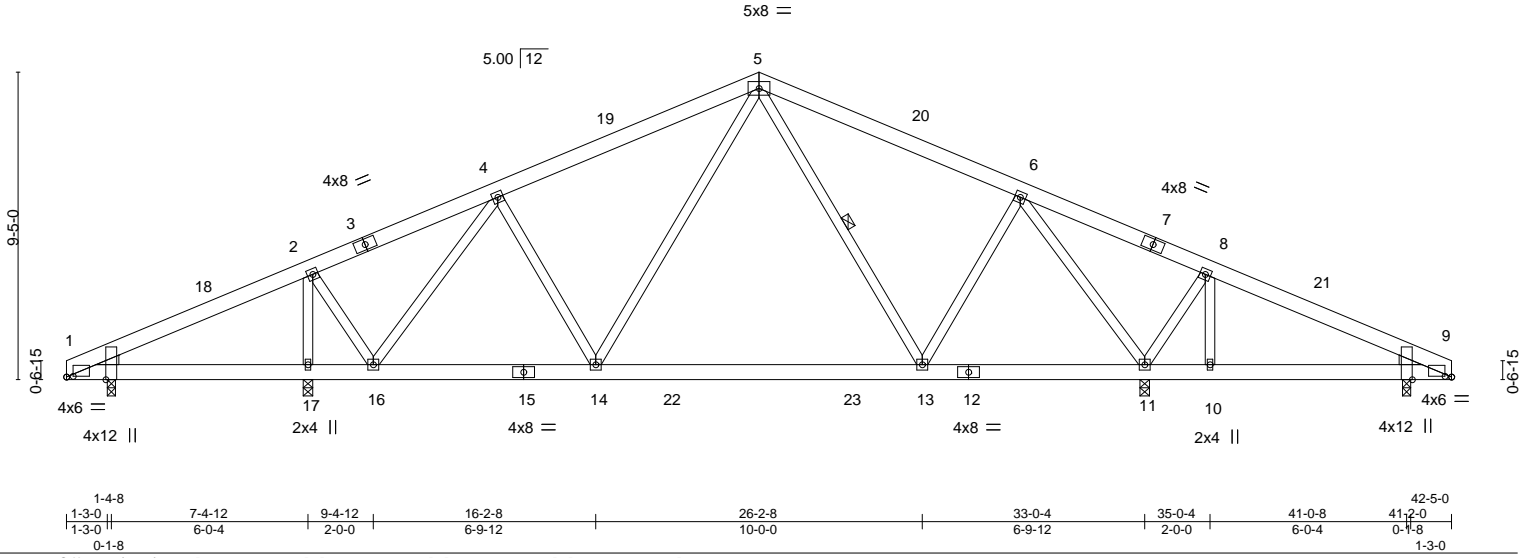
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Plate Offsets (X,Y)--   [1:0-2-7,0-0-4], [1:0-1-0,Edge], [9:0-2-7,0-0-4], [9:0-1-0,Edge]

LOADING (psf)	SPACING-	2-0-0	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-
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) 0-1-8 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
3) All plates are 4x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb)
   11=300, 17=311.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A08	COMMON	7	1		I52713897
					Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:42 2022 Page 1
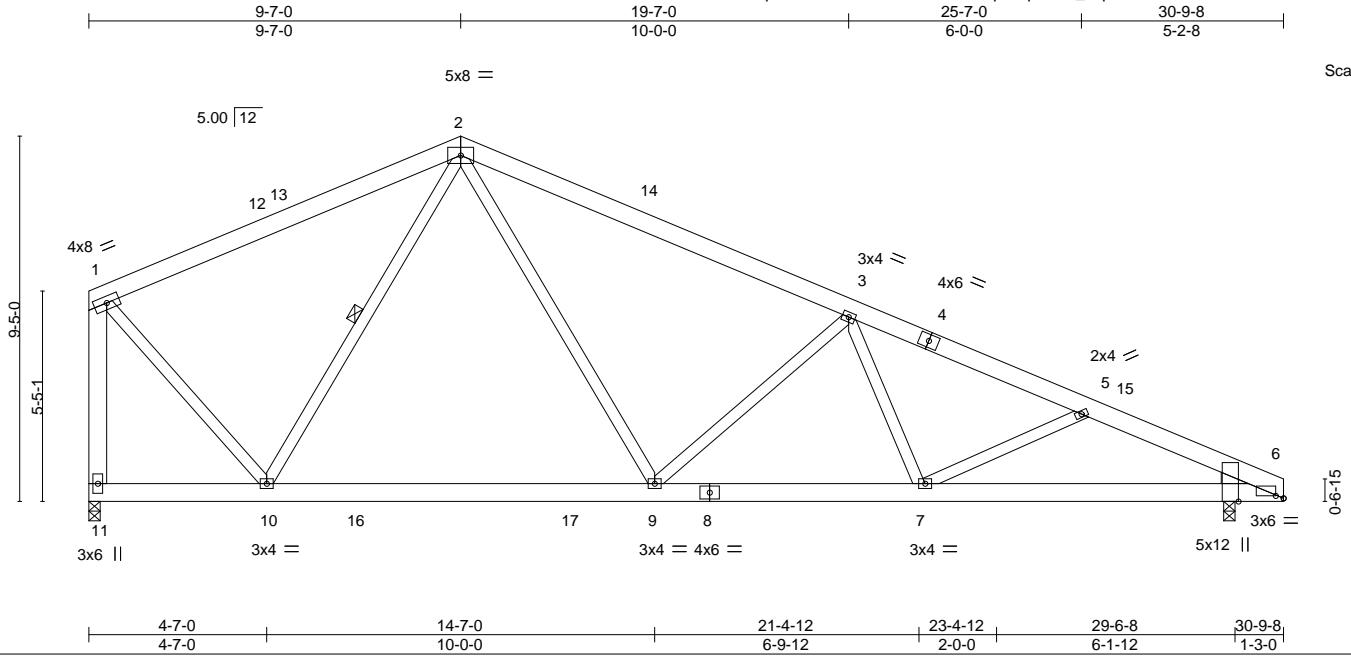ID:3N43qrVo5ReszoeZuaaJL3zGYtF-cqu2Hpft9DJ_PqnddKA4sQhcH7iPNOdY7r826Gz3Rox

Scale = 1:59.4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	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

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

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

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) 0-2-12 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=201, 6=240.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A08A	COMMON	1	1		I52713898
					Job Reference (optional)	

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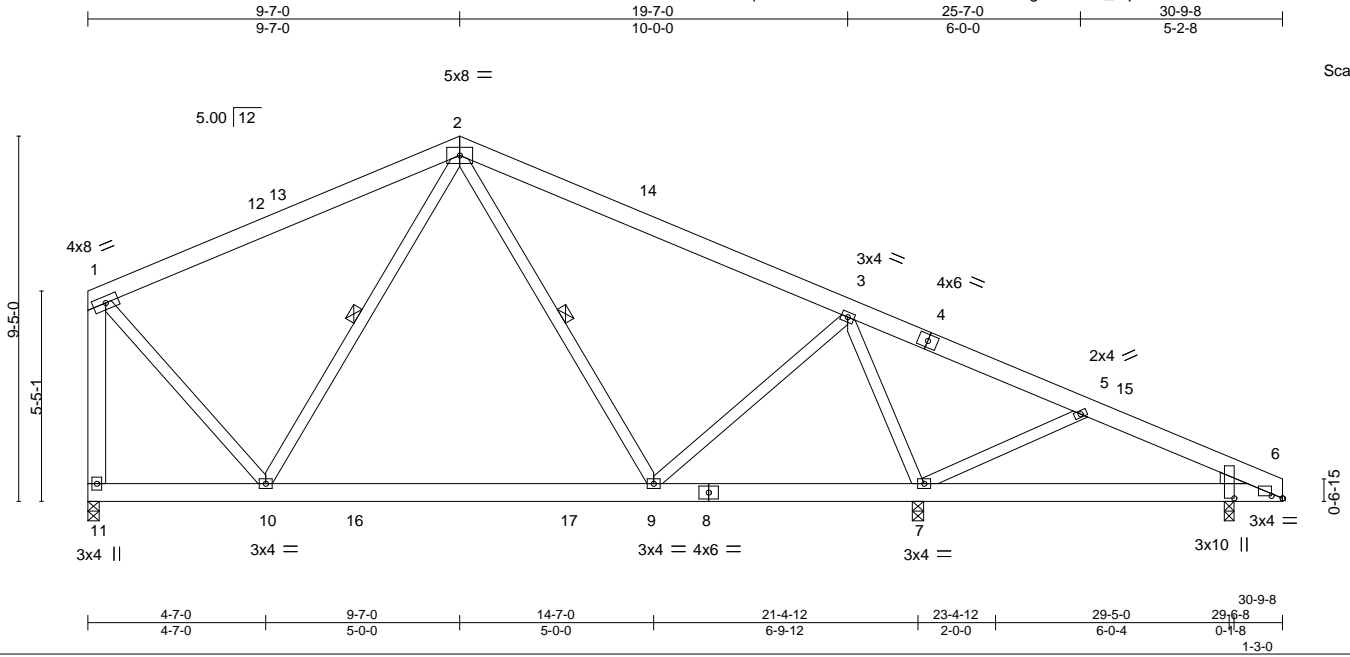
Plate Offsets (X,Y)-- [6:0-3-7,0-0-12], [6:0-0-0,1-2-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.14	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-
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 6-0-0 oc purlins,
             except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   2-10, 2-9

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-
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) 0-2-12 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 11=145, 7=272.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A09	ROOF SPECIAL	1	1		I52713899
					Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:44 2022 Page 1
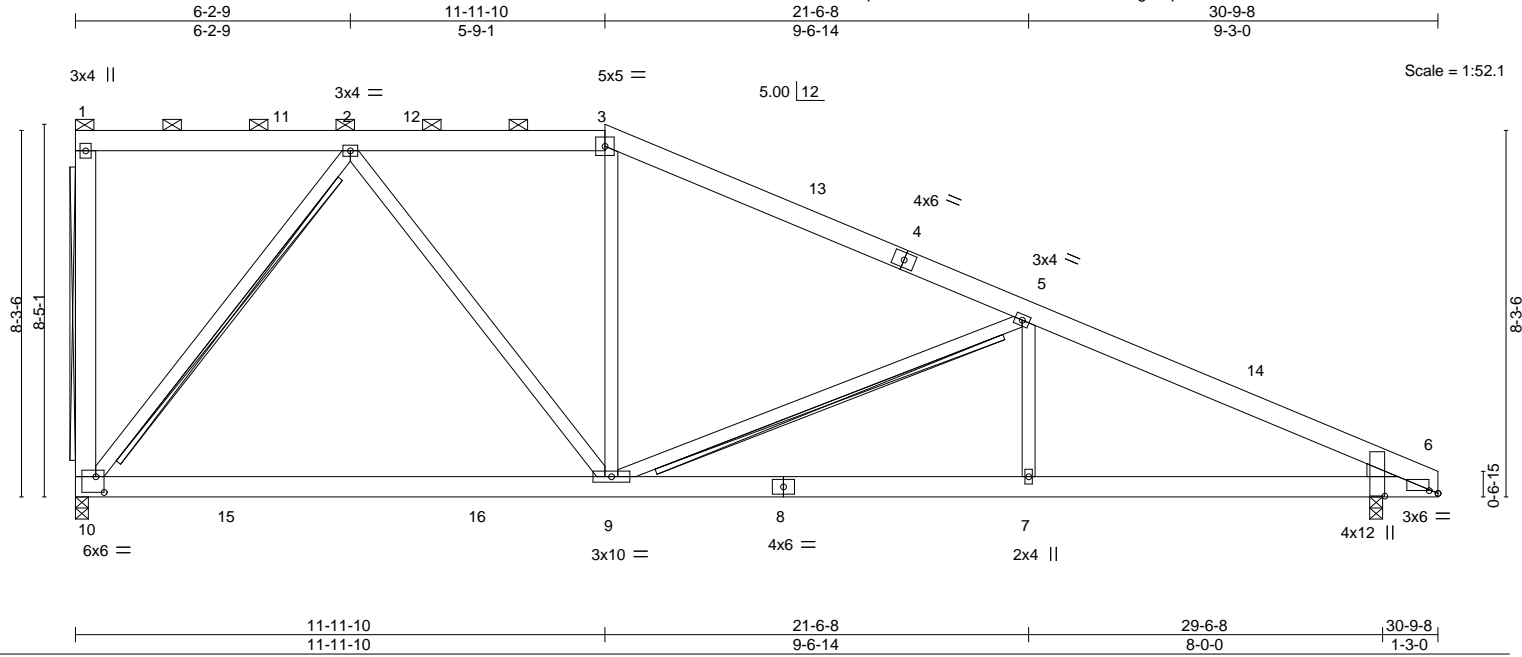ID:3N43qrVo5ReszoeZuaaJL3zGYtF-YD0oiVg8hqZie8x0llCYxrmz7wMOrJsra9d9A8z3Rov

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.
BOT CHORD   Rigid ceiling directly applied or 9-11-14 oc bracing.
WEBS   T-Brace: 2x4 SPF No.2 - 1-10, 2-10, 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)   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-
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) 0-2-12 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   10=263, 6=215.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	I52713900
J0323-1298	A10	ROOF SPECIAL	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:45 2022 Page 1
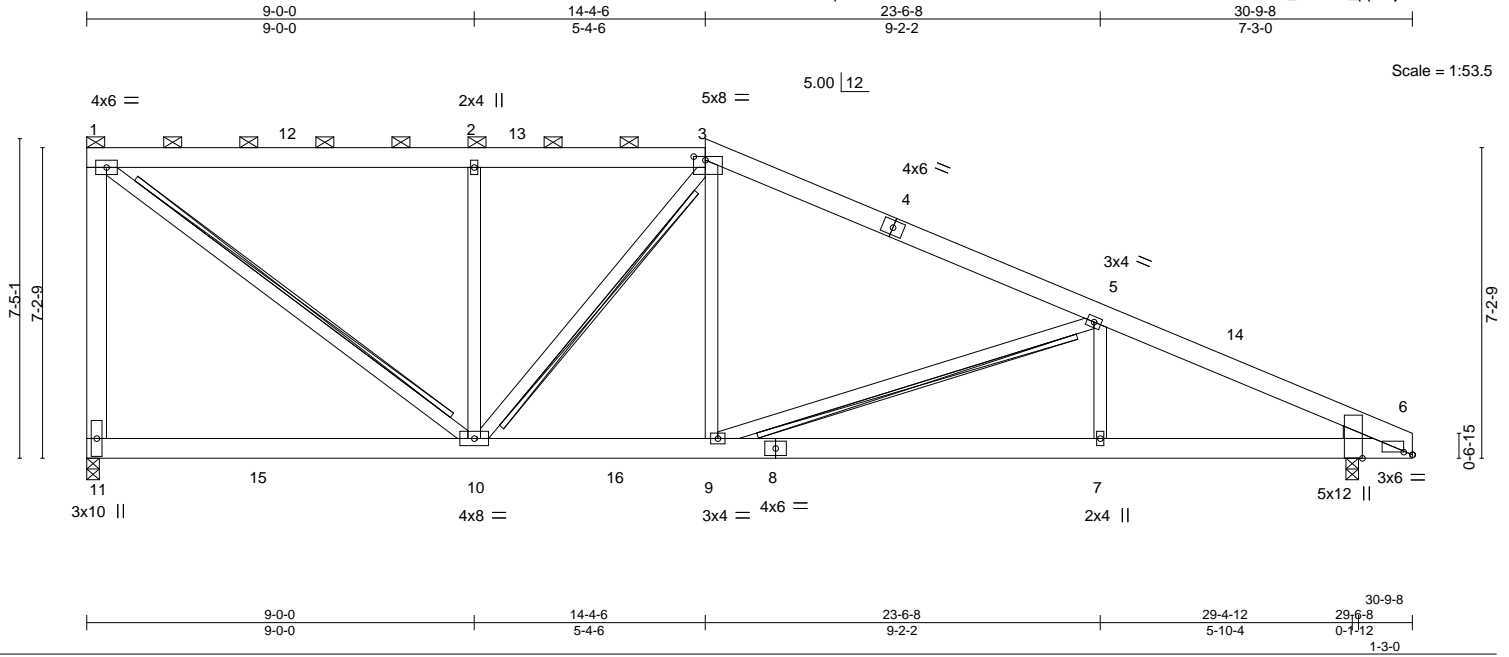ID:3N43qrVo5ReszoeZuaaJL3zGYtF-0PaAwrhmS8hZGIWCISknU2J8_Ki7aoh_ppMijaz3Rou

9-0-0 / 9-0-0
14-4-6 / 5-4-6
23-6-8 / 9-2-2
30-9-8 / 7-3-0

Scale = 1:53.5

5.00 |12

29-4-12 / 5-10-4
30-9-8 / 29-6-8 / 0-1-12
1-3-0

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-	2-0-0	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.
BOT CHORD   Rigid ceiling directly applied or 9-2-13 oc bracing.
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-
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) 0-2-12 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
11=270, 6=210.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

NORTH CAROLINA PROFESSIONAL
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ENGINEER
ERIC A. GILBERT

June 24,2022

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Edenton, NC 27932

Scale = 1:53.1

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-	2-0-0	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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-8-3 oc purlins,
              except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.
BOT CHORD   Rigid ceiling directly applied or 9-1-5 oc bracing.
WEBS   T-Brace: 2x4 SPF No.2 - 1-10, 4-10
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.

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) 0-2-12 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=277, 6=199.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

June 24,2022

ENGINEERING BY
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818 Soundside Road
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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:46 2022 Page 1
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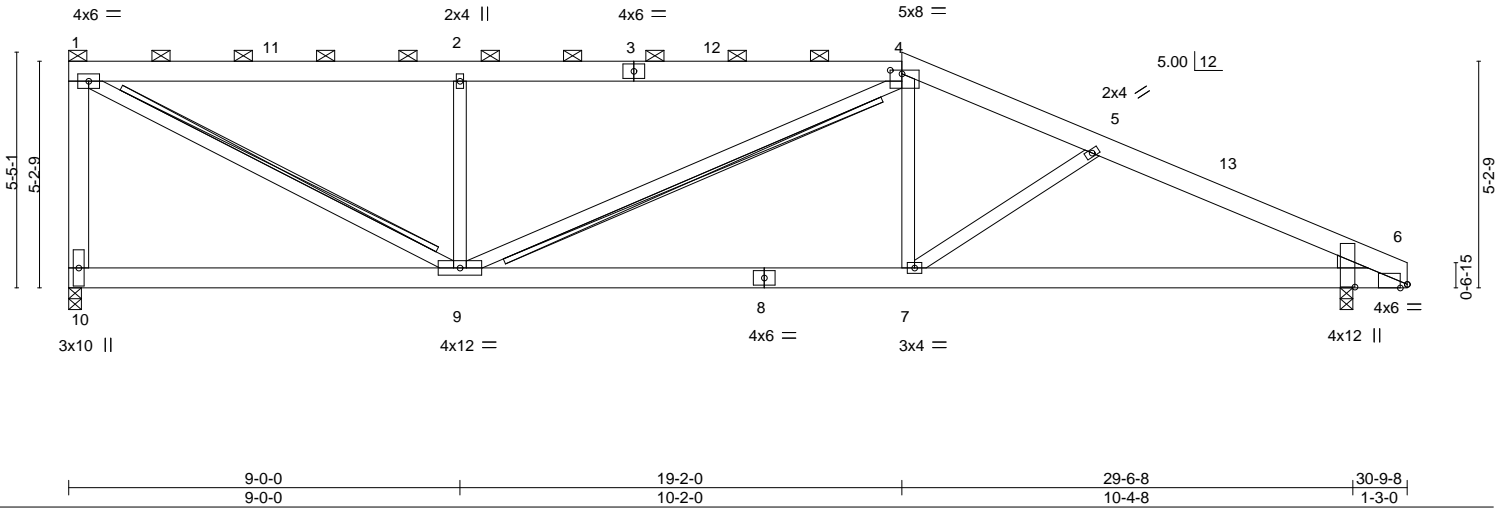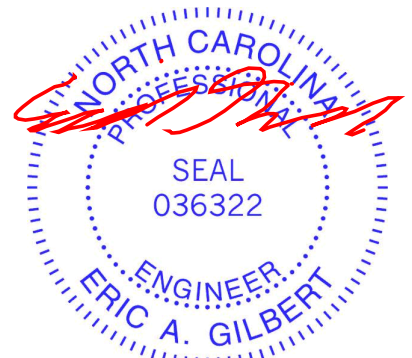

Scale = 1:53.0

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-	2-0-0	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

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

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.
BOT CHORD   Rigid ceiling directly applied or 8-6-15 oc bracing.
WEBS   T-Brace: 2x4 SPF No.2 - 1-9, 4-9
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.

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) 0-2-12 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
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) 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.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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ENGINEER
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June 24,2022

ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
						I52713903
J0323-1298	A13	ROOF SPECIAL	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc.   Thu Jun 23 09:18:47 2022   Page 1
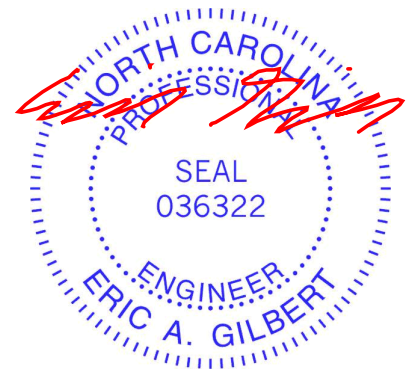ID:3N43qrVo5ReszoeZuaaJL3zGYtF-yoixKXj0_lxHVcgbQtmFZTOUV8OW2hNHH6rpnTz3Ros

Scale = 1:53.0

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

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	0.61	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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-1-11 oc purlins,
            except end verticals, and 2-0-0 oc purlins (5-4-0 max.): 1-5.
BOT CHORD   Rigid ceiling directly applied or 8-6-6 oc bracing.
WEBS   T-Brace: 2x4 SPF No.2 - 1-10, 4-10
            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=-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-
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) 0-2-12 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
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) 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.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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June 24,2022

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Comtech, Inc,   Fayetteville, NC - 28314,

	8-0-0	16-0-0	23-11-10	30-9-8
	8-0-0	8-0-0	7-11-10	6-9-14

Scale = 1:52.1

	8-0-0	16-0-0	23-11-10	29-6-8	30-9-8
	8-0-0	8-0-0	7-11-10	5-6-14	1-3-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.15	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.30	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.19	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
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=-835(LC 4), 6=-632(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=-2186/910, 1-2=-4657/1619, 2-4=-4657/1619, 4-5=-4218/1361, 5-6=-4645/1444
BOT CHORD   8-10=-1991/6021, 7-8=-1991/6021, 6-7=-1260/4167
WEBS   1-10=-1659/4781, 2-10=-913/626, 4-10=-1455/498, 4-8=0/572, 4-7=-1928/777,
5-7=-111/1093

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.

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=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
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=835, 6=632.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	A14-GR	ROOF SPECIAL GIRDER	1	**2**		I52713904
					Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:50 2022 Page 2
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-NNN3zZlvHgJrM3OA50JyB60ziLO6F18jz44TOoz3Rop

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 126 lb up at 0-10-12, 104 lb down and 130 lb up at 1-10-12, 104 lb down and 130 lb up at 3-10-12, 104 lb down and 130 lb up at 5-10-12, 104 lb down and 130 lb up at 7-10-12, 104 lb down and 130 lb up at 9-10-12, 104 lb down and 130 lb up at 11-10-12, 104 lb down and 130 lb up at 13-10-12, 104 lb down and 130 lb up at 15-10-12, 104 lb down and 130 lb up at 17-10-12, 104 lb down and 130 lb up at 19-10-12, 104 lb down and 130 lb up at 21-10-12, 104 lb down and 130 lb up at 23-11-10, and 89 lb down and 77 lb up at 25-10-12, and 110 lb down and 106 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 64 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)

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Job	Truss	Truss Type	Qty	**Ply**	Lot 83 South Creek	
J0323-1298	B1-GR	ROOF SPECIAL GIRDER	1	**2**		I52713905
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:52 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-JmVpOEm9pIZZbNYYDQMQGX5Ma96mju20QOZaShz3Ron

Scale = 1:59.6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	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 5)
               Max Uplift 2=-416(LC 8), 7=-705(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=-3769/828, 3-4=-3636/818, 4-5=-8163/1944, 5-6=-4865/1287, 6-7=-5457/1384
BOT CHORD   2-13=-563/3238, 11-13=-1822/8123, 9-11=-2171/8991, 8-9=-2171/8991, 7-8=-1161/4761
WEBS   3-13=-557/2747, 4-13=-5519/1423, 4-11=-268/766, 5-11=-1028/674, 5-9=-150/1389,
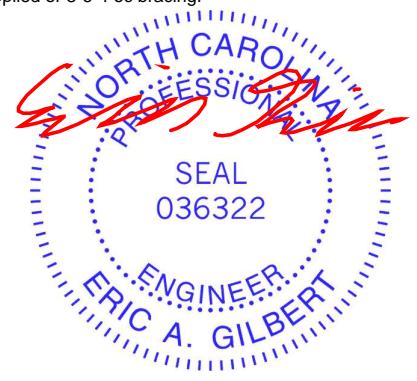   5-8=-4444/1073, 6-8=-236/1822

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
   ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0
   between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   2=416, 7=705.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
    referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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NOTES-

12) 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 120 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.

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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	-1-3-0	9-11-8	13-2-9	19-10-10	26-6-11	33-2-0
	1-3-0	9-11-8	3-3-1	6-8-1	6-8-1	6-7-5

Scale = 1:59.6

	9-11-8	13-2-9	19-10-10	26-6-11	31-11-0	33-2-0
	9-11-8	3-3-1	6-8-1	6-8-1	5-4-5	1-3-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	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; 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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
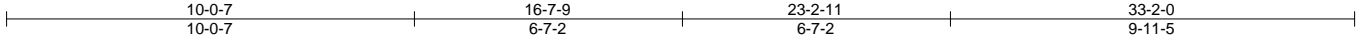
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Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	B3	ROOF SPECIAL	1	1	Job Reference (optional)	I52713907

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:54 2022 Page 1
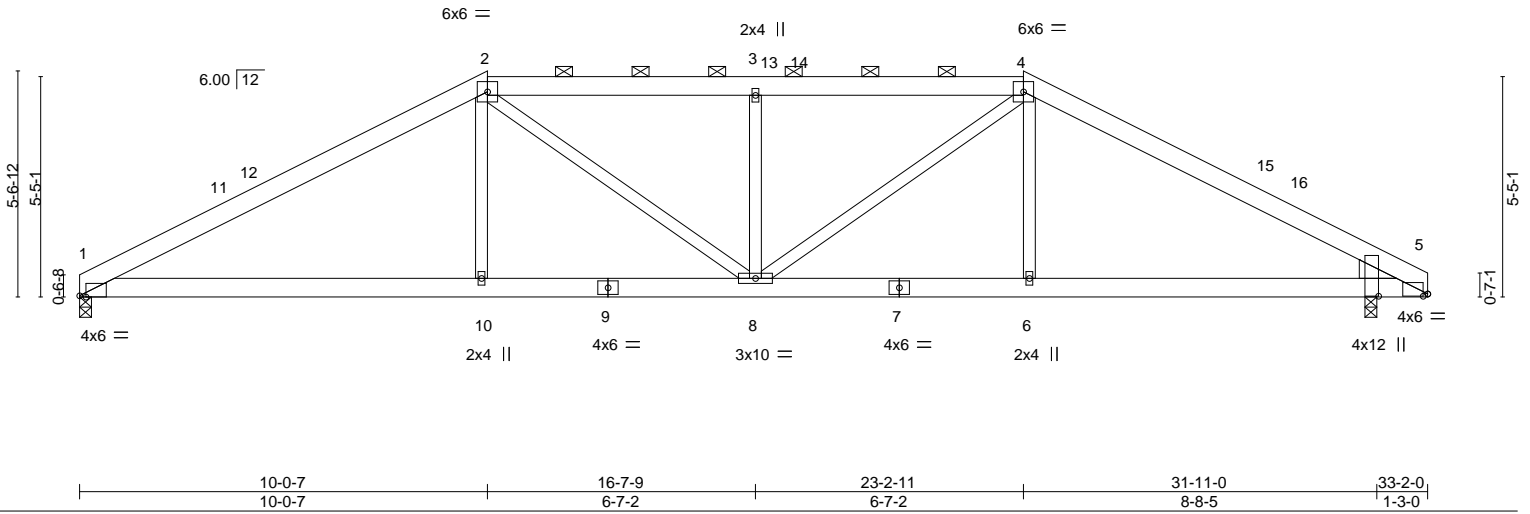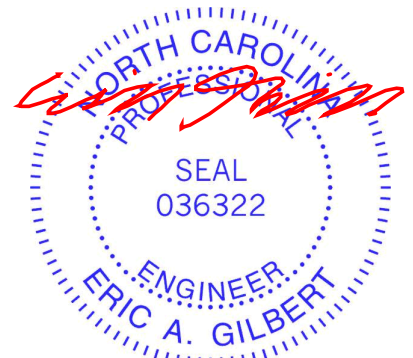ID:3N43qrVo5ReszoeZuaaJL3zGYtF-F8daowoPLvpHrgixKrOuLyBhWymZBtSJui2hXZz3Rol
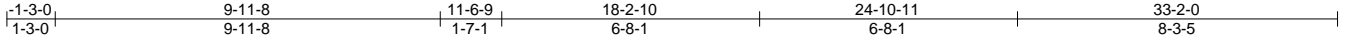
Scale = 1:59.6

Plate Offsets (X,Y)--   [7:0-1-5,Edge], [7:0-0-11,1-2-8]
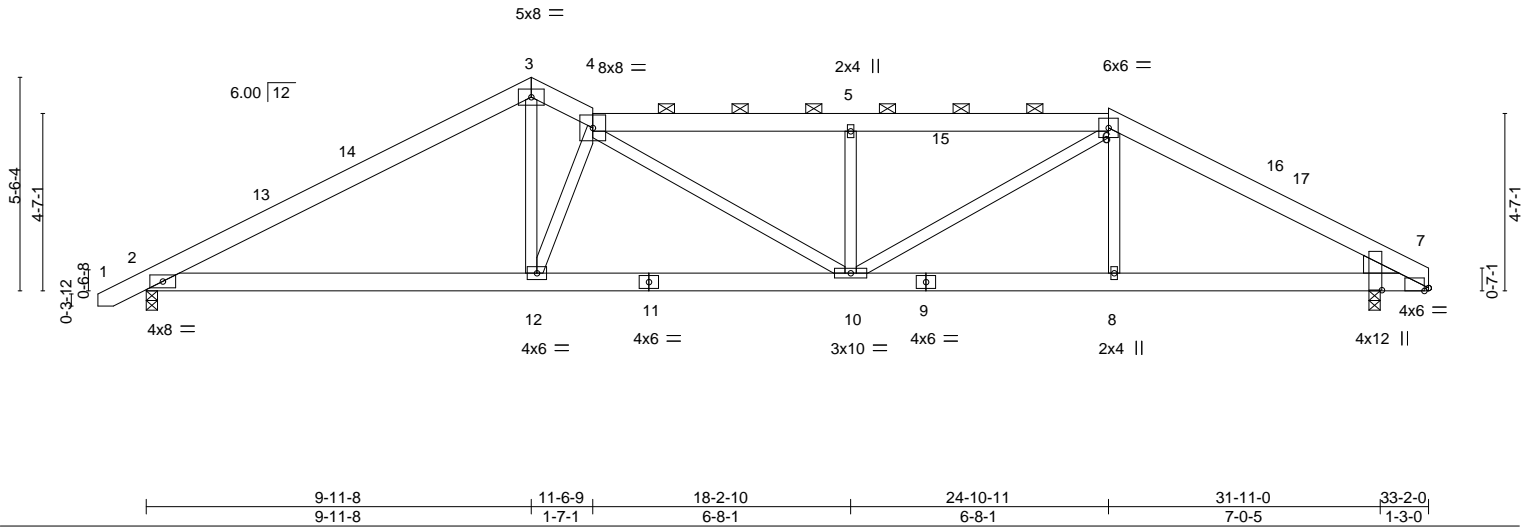
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.10	10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.22	10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		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-
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) -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
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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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Scale = 1:56.7

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-	2-0-0	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-
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 3-11-2 oc purlins,
            except
            2-0-0 oc purlins (5-2-0 max.): 2-4.
BOT CHORD   Rigid ceiling directly applied or 9-0-2 oc bracing.

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	B5	HIP	1	1		I52713909
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:55 2022 Page 1
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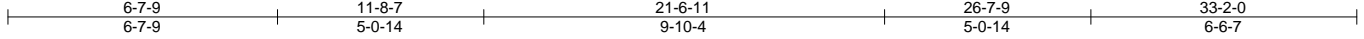
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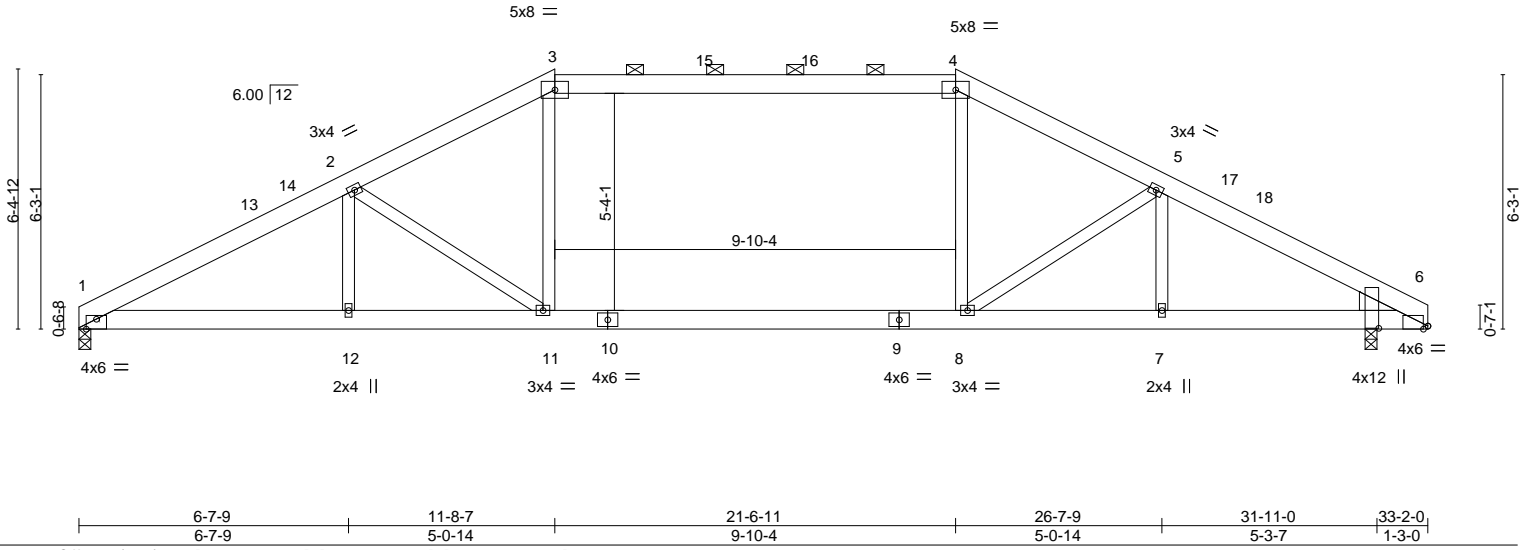
Plate Offsets (X,Y)--   [1:0-3-0,Edge], [6:0-1-5,Edge], [6:0-0-11,1-2-8]

LOADING (psf)		SPACING-	2-0-0	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	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-
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 4-9-3 oc purlins, except
               2-0-0 oc purlins (4-8-13 max.): 3-4.
BOT CHORD   Rigid ceiling directly applied or 8-2-0 oc bracing.

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-
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 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
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=200, 6=199.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
    referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	B6	HIP	1	1	Job Reference (optional)	I52713910

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:56 2022 Page 1
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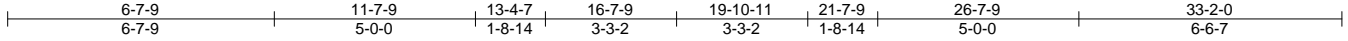
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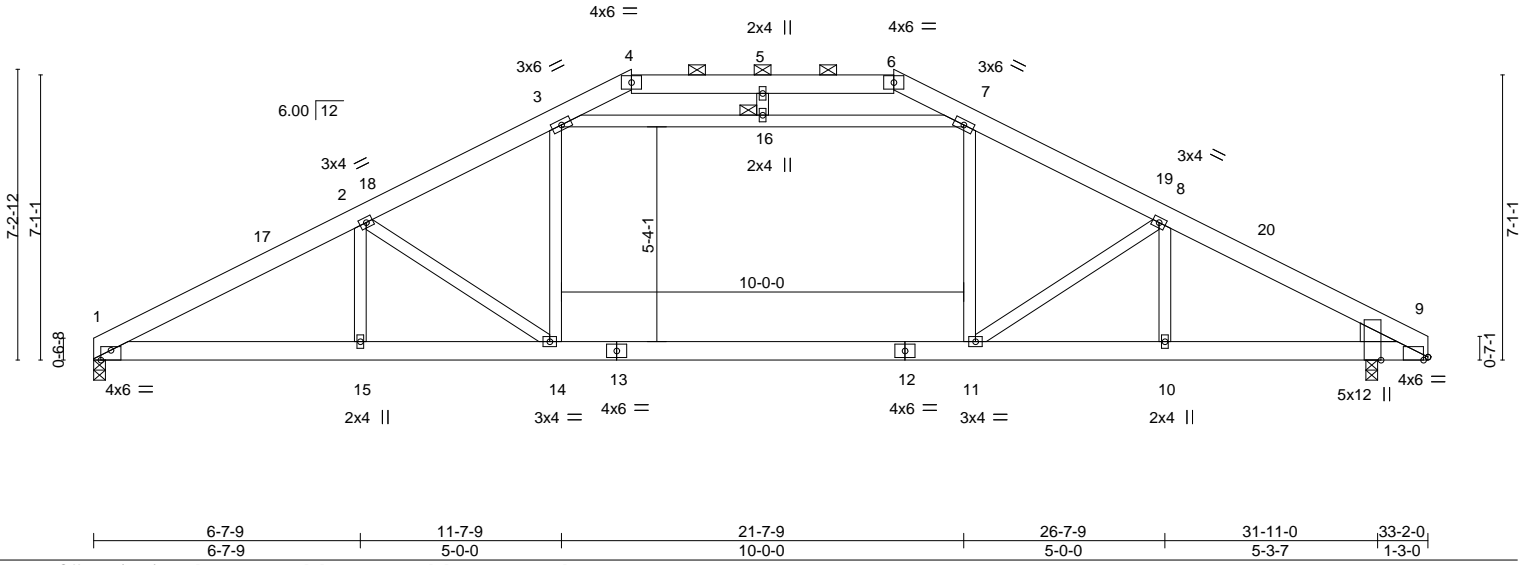
Plate Offsets (X,Y)--   [1:0-3-0,Edge], [9:0-1-5,Edge], [9:0-0-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	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-
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 4-9-7 oc purlins, except
             2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD   Rigid ceiling directly applied or 8-1-10 oc bracing.
JOINTS   1 Brace at Jt(s): 16

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; 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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

SEAL
036322
ERIC A. GILBERT
NORTH CAROLINA
PROFESSIONAL ENGINEER

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek
J0323-1298	B7®	HIP	1	1	I52713911
					Job Reference (optional)

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:57 2022 Page 1
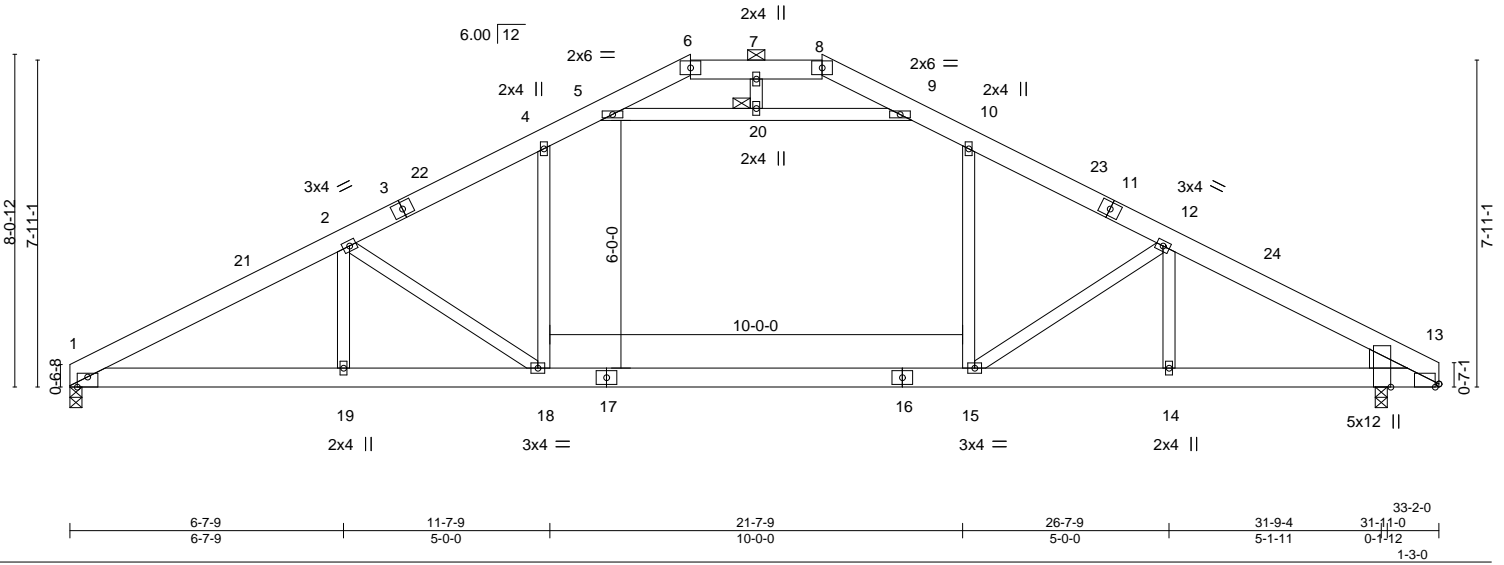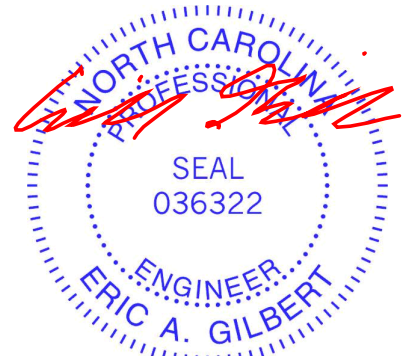ID:3N43qrVo5ReszoeZuaaJL3zGYtF-fjIiRyqIdqCsi8RW?_xbzapB_AmQOE9lagGL8uz3Roi
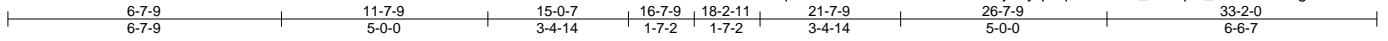
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Plate Offsets (X,Y)--   [1:0-3-0,Edge], [13:0-1-1,Edge], [13:0-0-15,Edge]

LOADING (psf)		SPACING-	2-0-0	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	15-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.41	15-18	>966	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		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-
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 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0
   between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   1=227, 13=226.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	B8	COMMON	2	1		I52713912
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:58 2022 Page 1
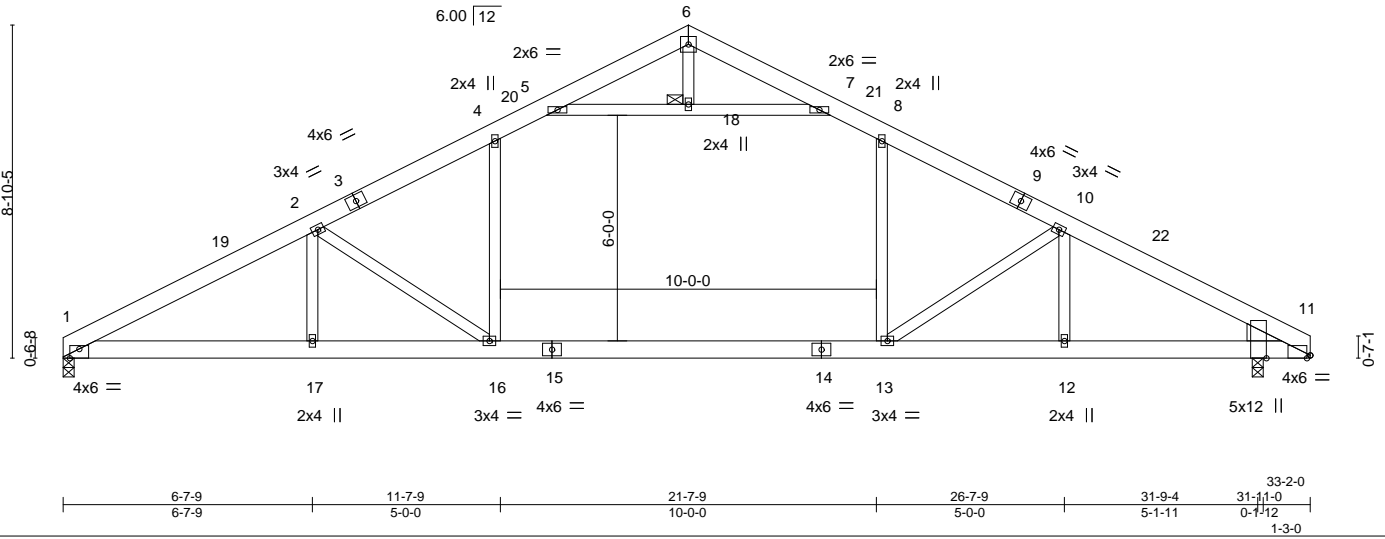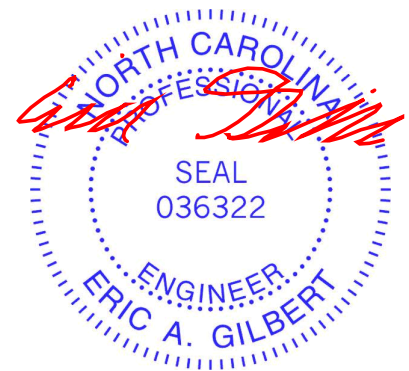ID:3N43qrVo5ReszoeZuaaJL3zGYtF-8vs5eIrwO8KjJI0iZhSqWoLMkZ5f7hjvoK0ugKz3Roh
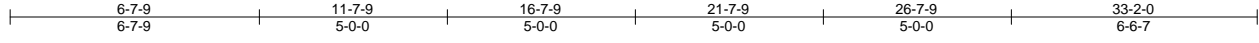
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Plate Offsets (X,Y)-- [1:0-3-0,Edge], [11:0-1-1,Edge], [11:0-0-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.67	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-
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 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0
   between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   1=236, 11=236.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:18:59 2022 Page 1
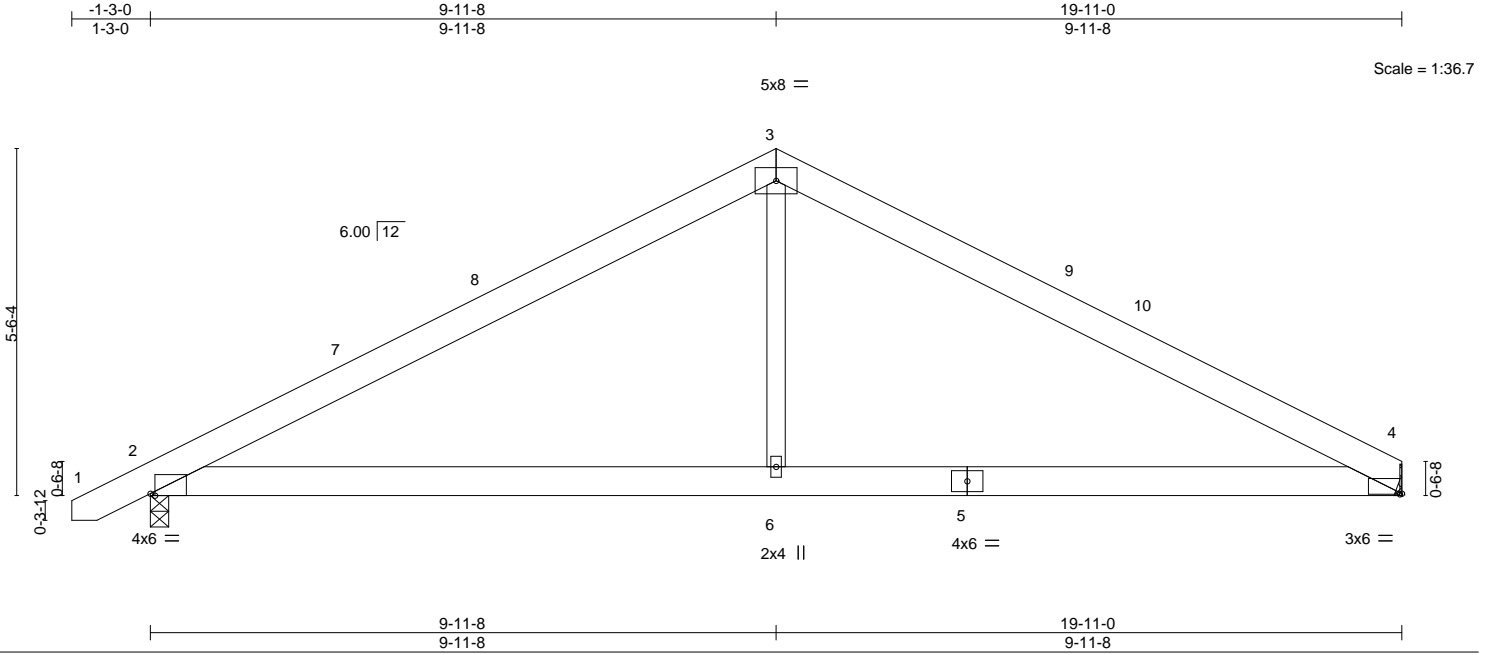ID:3N43qrVo5ReszoeZuaaJL3zGYtF-c6QTsesY9RSaxSau7P_32?uZmzYPsDq21_ISCnz3Rog

Scale = 1:36.7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.06	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-
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) -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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=141, 2=169.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SEAL
036322
ERIC A. GILBERT
NORTH CAROLINA PROFESSIONAL ENGINEER

June 24,2022

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	C1GE	COMMON SUPPORTED GAB	1	1		I52713914
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:00 2022 Page 1
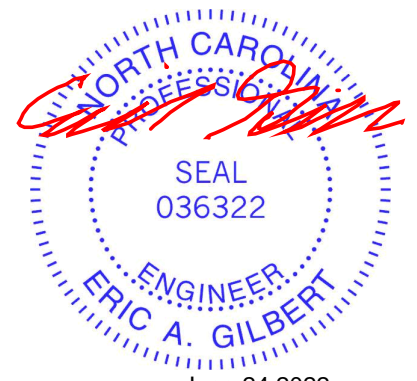ID:3N43qrVo5ReszoeZuaaJL3zGYtF-4I_r3ztAwIaRZb95h6VIbDRrDNz6bh1CGeV?IDz3Rof

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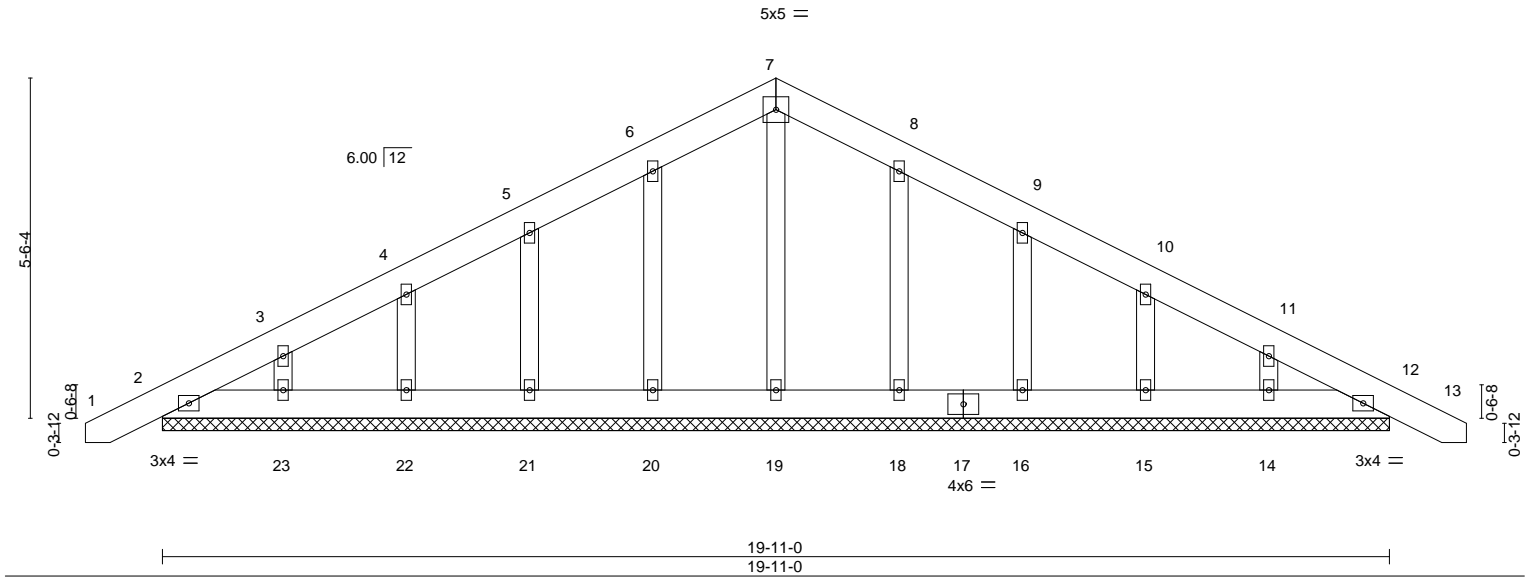
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014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

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

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

REACTIONS.   All bearings 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-
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)
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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 12 except
(jt=lb) 20=101, 21=113, 22=109, 23=103, 16=115, 15=109, 14=101.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
referenced standard ANSI/TPI 1.

North Carolina Professional Engineer
SEAL
036322
ERIC A. GILBERT

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	I52713915
J0323-1298	D1	COMMON	2	1	Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:01 2022 Page 1
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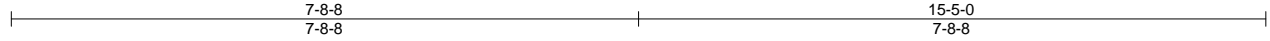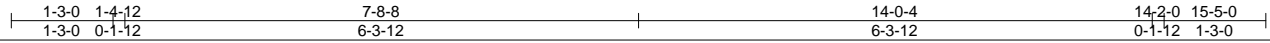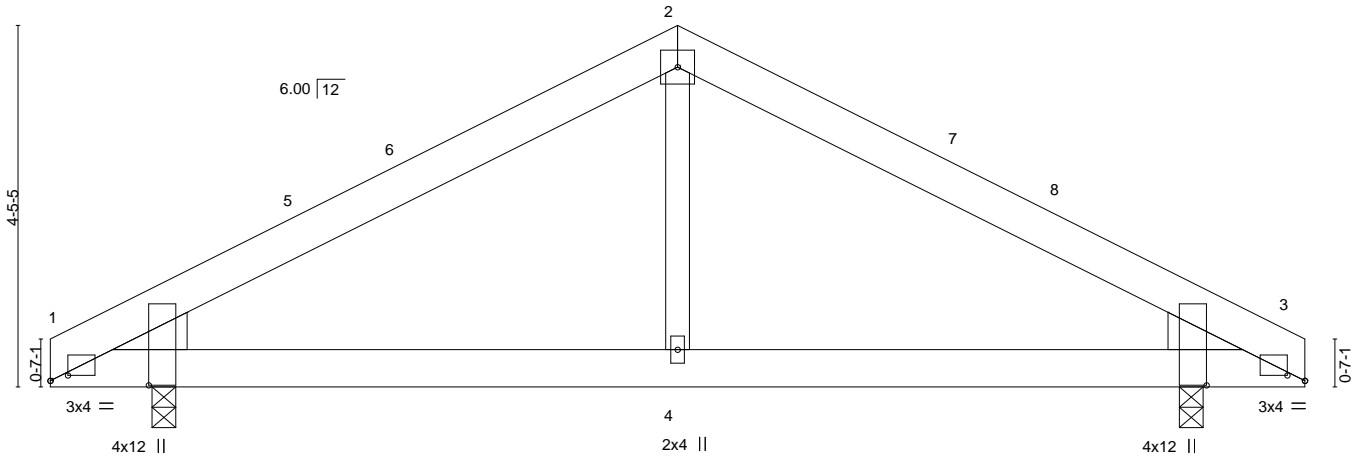
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	1-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.05	1-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		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-
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 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=108, 3=108.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 24,2022

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

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:02 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-0h6bUfuQSMq8ovJToXXmgeWBfBfQ3bfVjy_6p5z3Rod
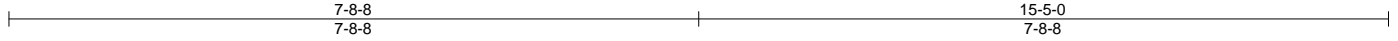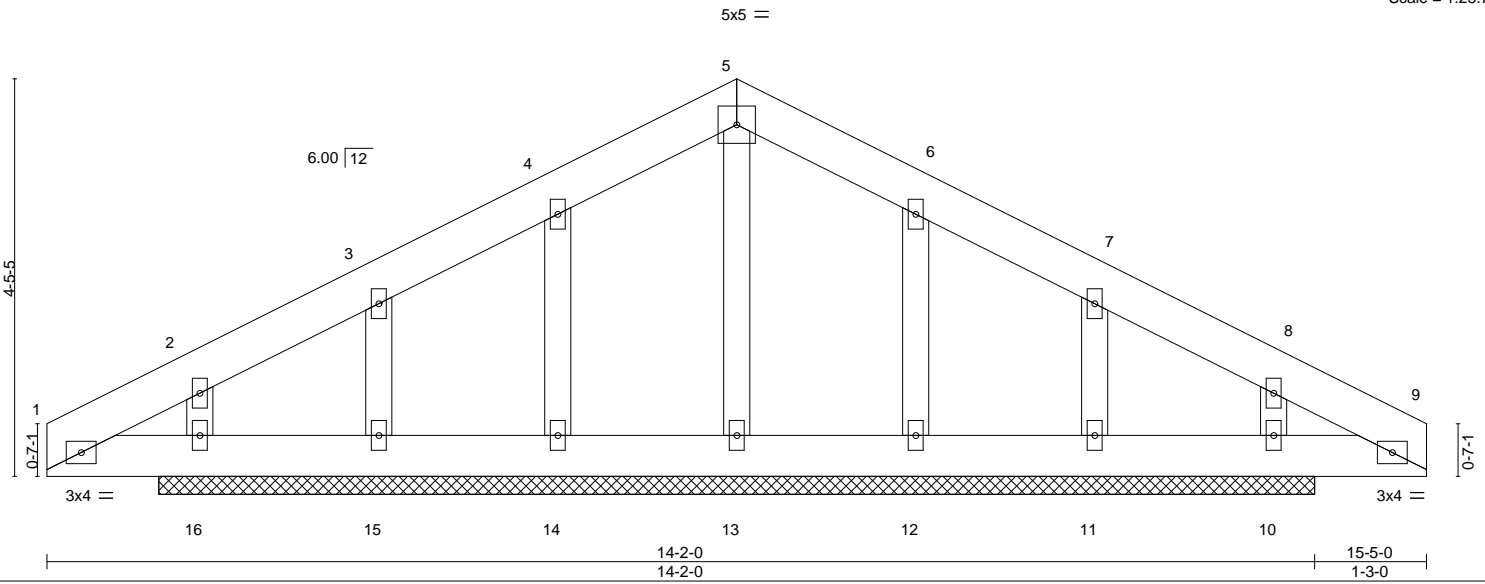
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 96 lb	FT = 20%

LUMBER-
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 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-
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)
   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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
8) 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.
9) N/A.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.

June 24,2022

TRENCO
ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	I52713917
J0323-1298	D2	COMMON	3	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:02 2022 Page 1
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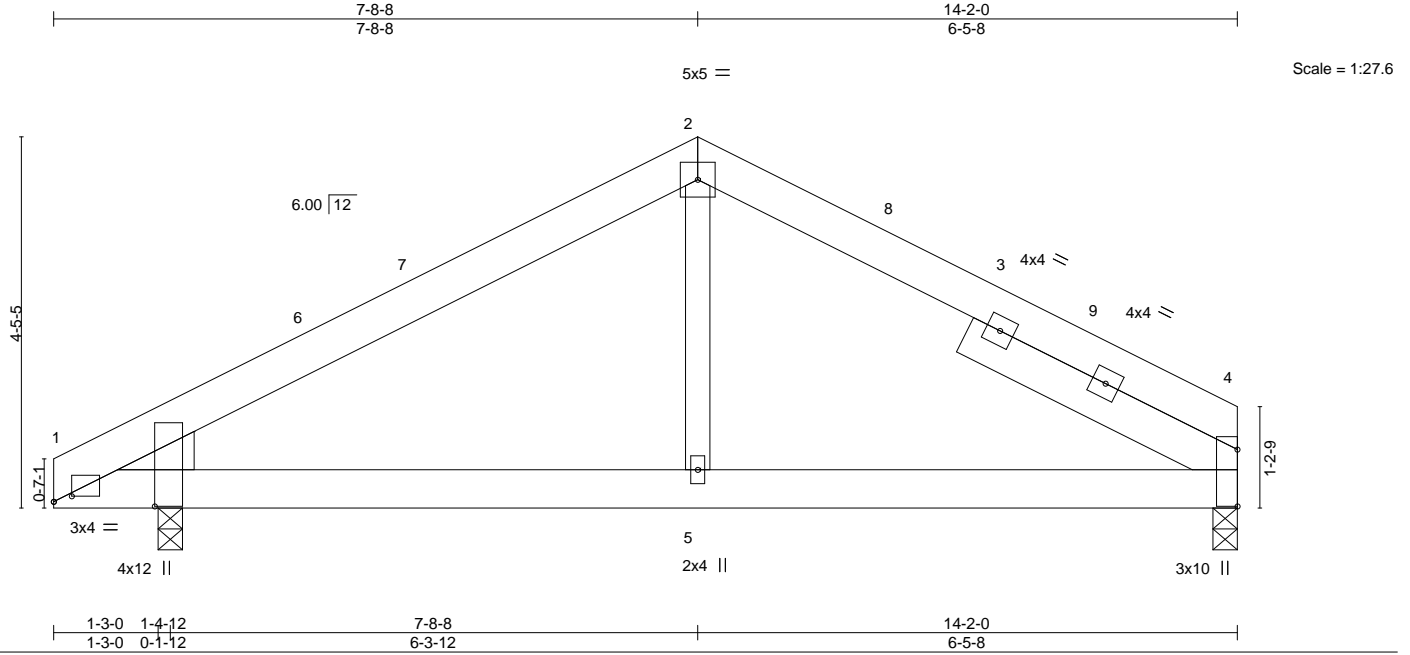
Plate Offsets (X,Y)--	[1:0-0-11,1-2-8], [1:0-2-9,0-0-13], [4:Edge,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	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-
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 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=103.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SEAL
036322
NORTH CAROLINA PROFESSIONAL ENGINEER
ERIC A. GILBERT

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	G1	COMMON	2	1		I52713918
					Job Reference (optional)	
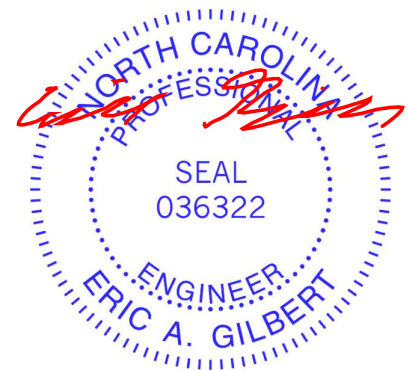
Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:03 2022 Page 1
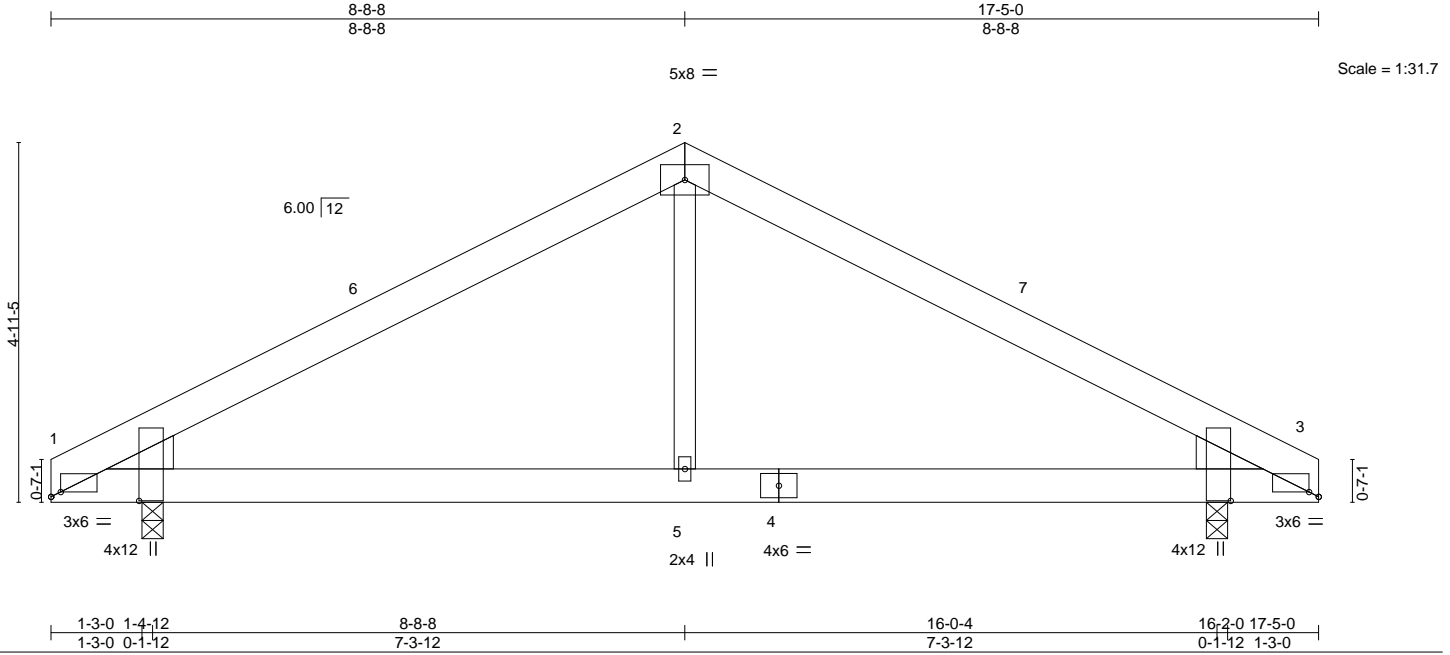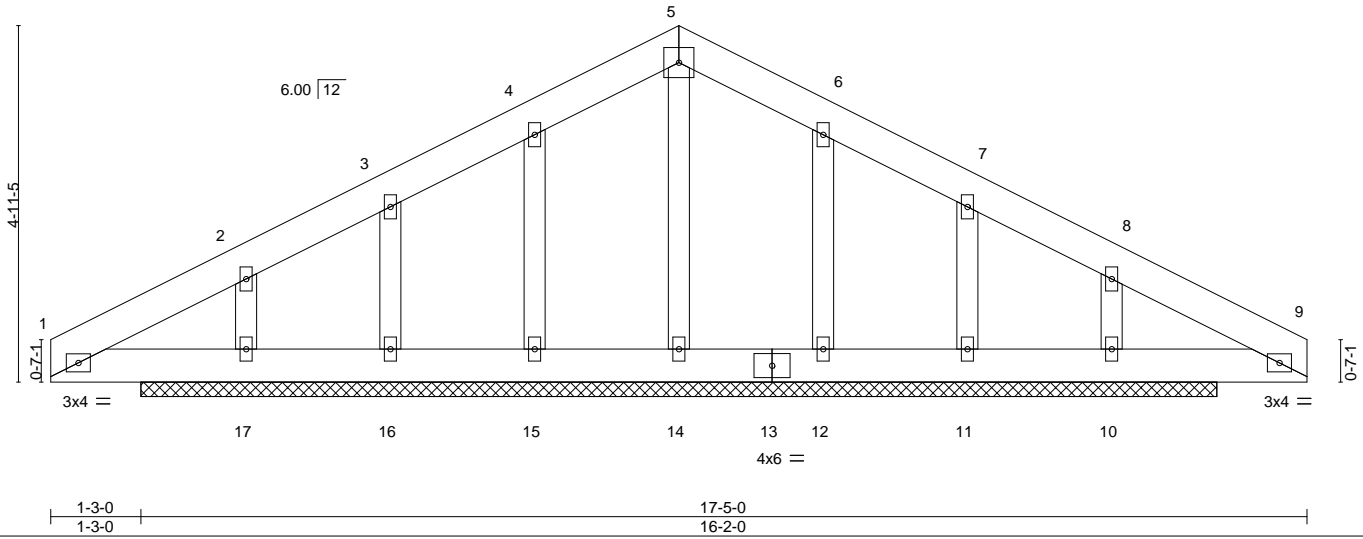ID:3N43qrVo5ReszoeZuaaJL3zGYtF-Utg_h?v3Dgy?Q3ufME2?Dr3HCauyo11eycjfLYz3Roc

5x8 ═

Scale = 1:31.7

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-	2-0-0	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-
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 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=123, 3=123.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 24,2022

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

Comtech, Inc,   Fayetteville, NC - 28314,

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-
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)
   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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
8) 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.
9) N/A.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
    referenced standard ANSI/TPI 1.

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:05 2022 Page 1
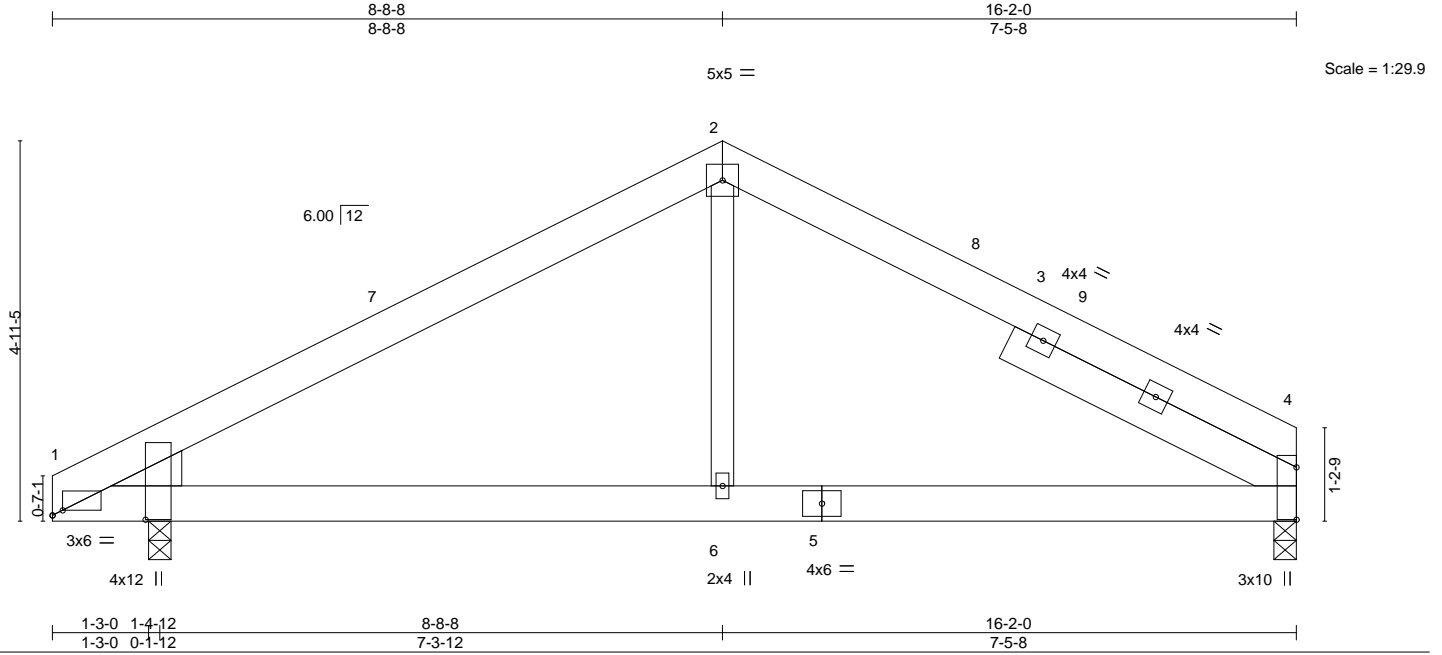ID:3N43qrVo5ReszoeZuaaJL3zGYtF-RGnk6hxJlHCjfN22Tf5TlG8dVOZKGxfxPwCmQQz3Roa

Scale = 1:29.9

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.38	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-
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 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=109, 1=118.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 24,2022

TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	X1	JACK-OPEN	19	1		I52713921
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:05 2022 Page 1
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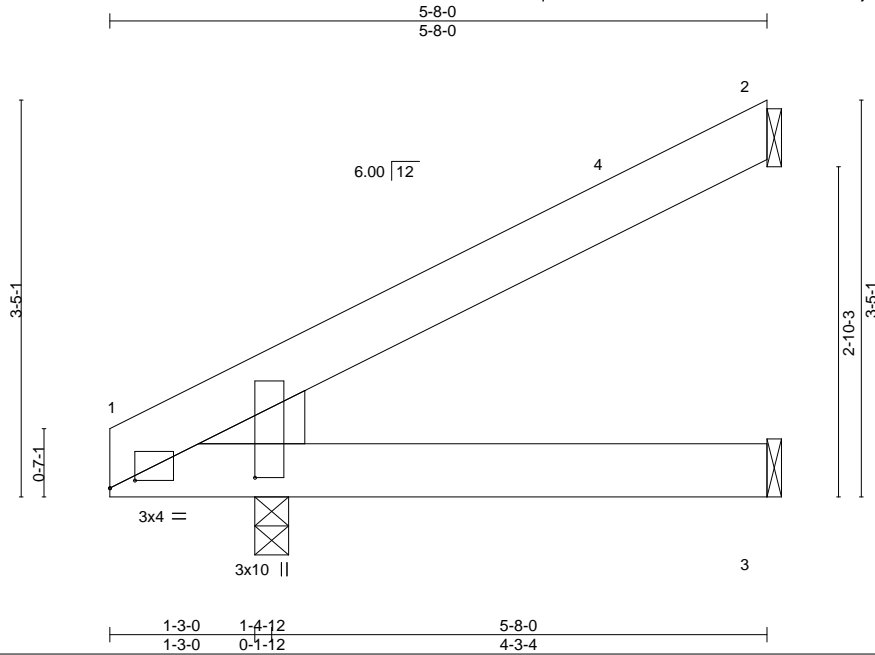
5-8-0
5-8-0

Scale = 1:19.9

6.00 ‾12

3x4 =

3x10 ‖

	1-3-0	1-4-12	5-8-0
	1-3-0	0-1-12	4-3-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

NORTH CAROLINA
PROFESSIONAL SEAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	X1A	JACK-OPEN	6	1		I52713922
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:06 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-vSL6K1xxWbKaHWdE1NciqUhrQoxB?Pb4eayJytz3RoZ
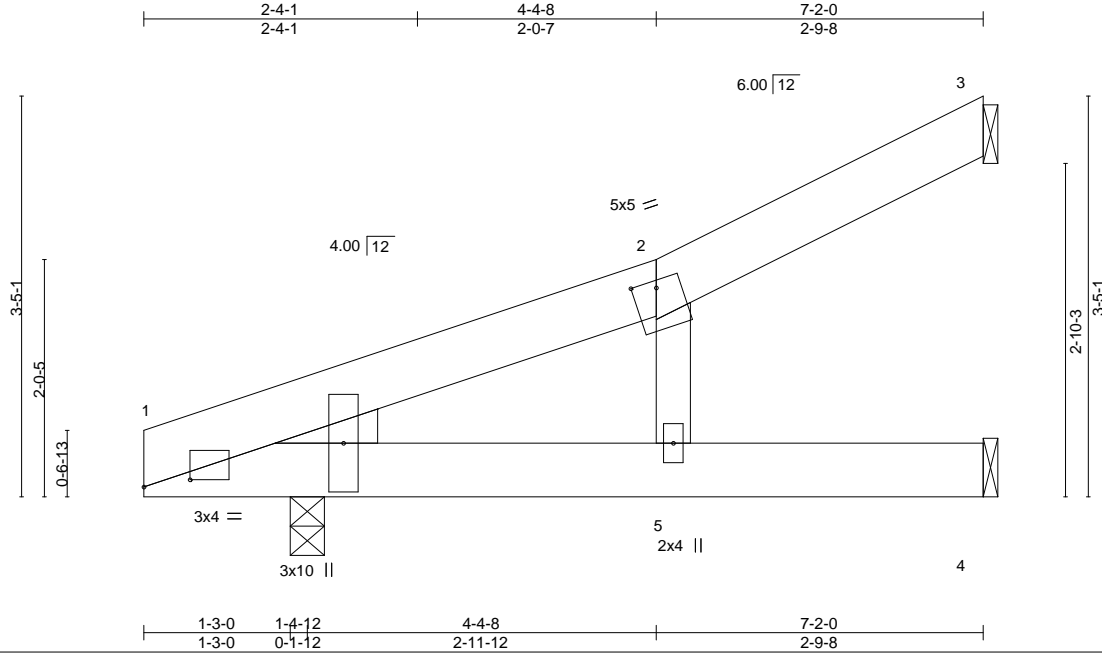
Scale = 1:19.7

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.04	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.10	1-5	>844	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.07	1-5	>999	240	Weight: 39 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 6-0-0 oc purlins.
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=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-
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 4-4-8, 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
   will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 1.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932
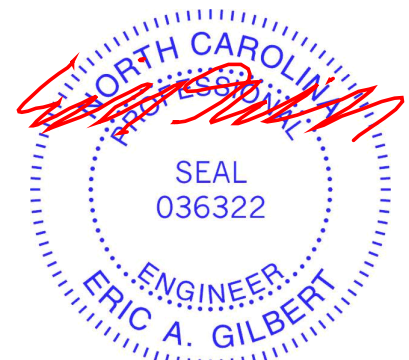
Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	X2	JACK-OPEN	1	1		I52713923
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:07 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-NevUXNyZHvSRvgCRb47xNhD04CKxksVEtEhtUJz3RoY
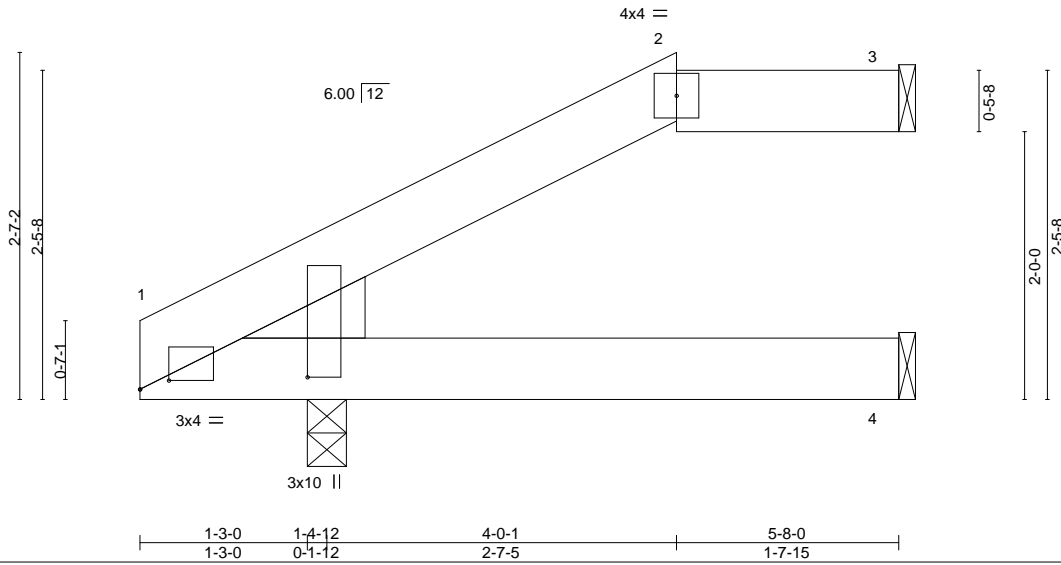
Scale = 1:17.2

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	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-
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) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 24,2022

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Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:08 2022 Page 1
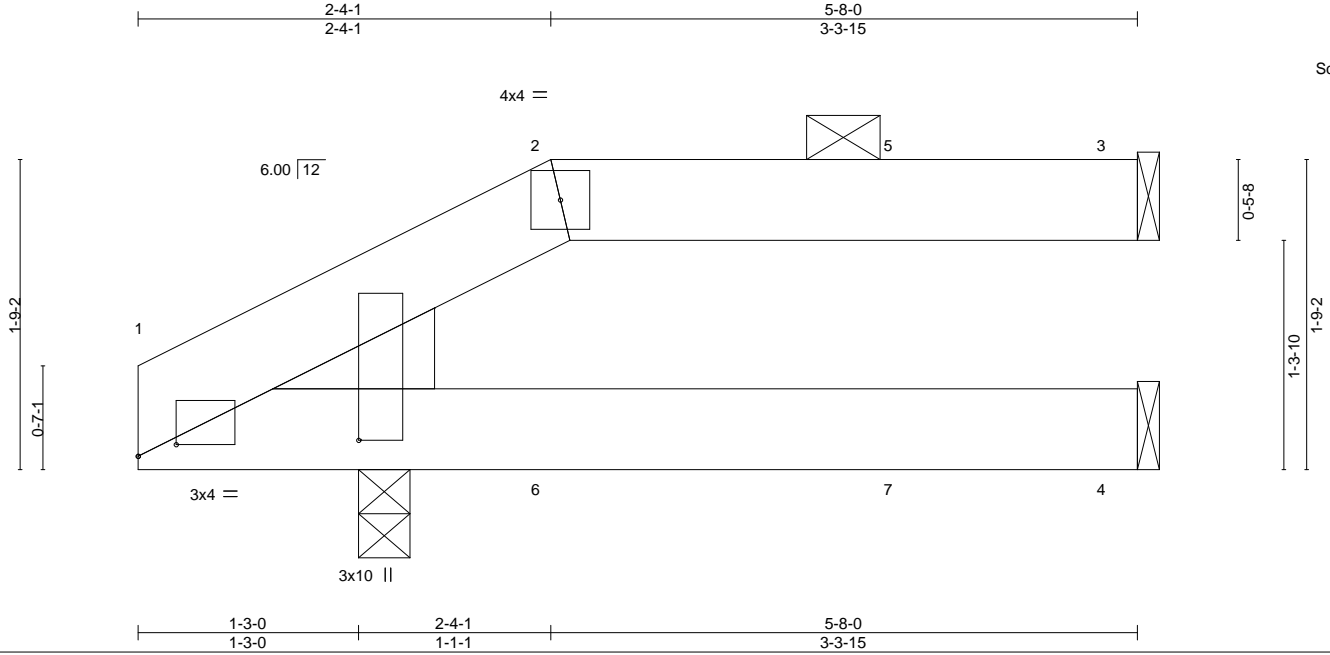ID:3N43qrVo5ReszoeZuaaJL3zGYtF-rrTtlizB2CaIWqmd9neAwvmBubgFTJlN6uRQ1lz3RoX

Scale = 1:13.1

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.18	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 27)
                Max Uplift 3=-95(LC 5), 1=-55(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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 60 lb up at
    2-4-12, and 38 lb down and 60 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.
11) 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)
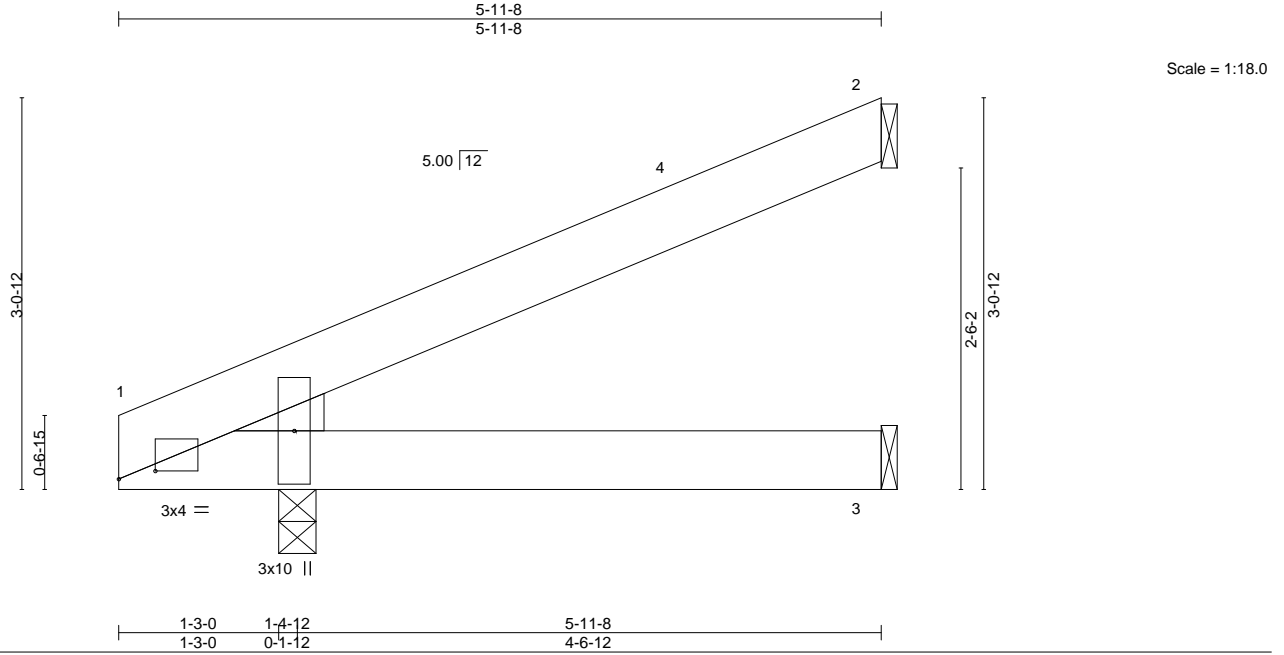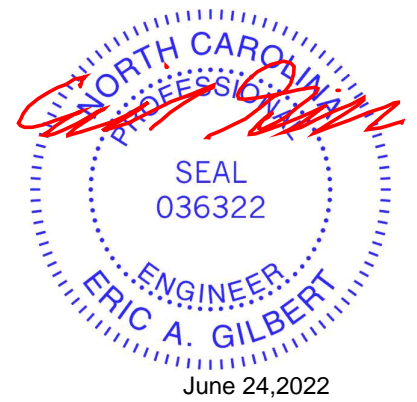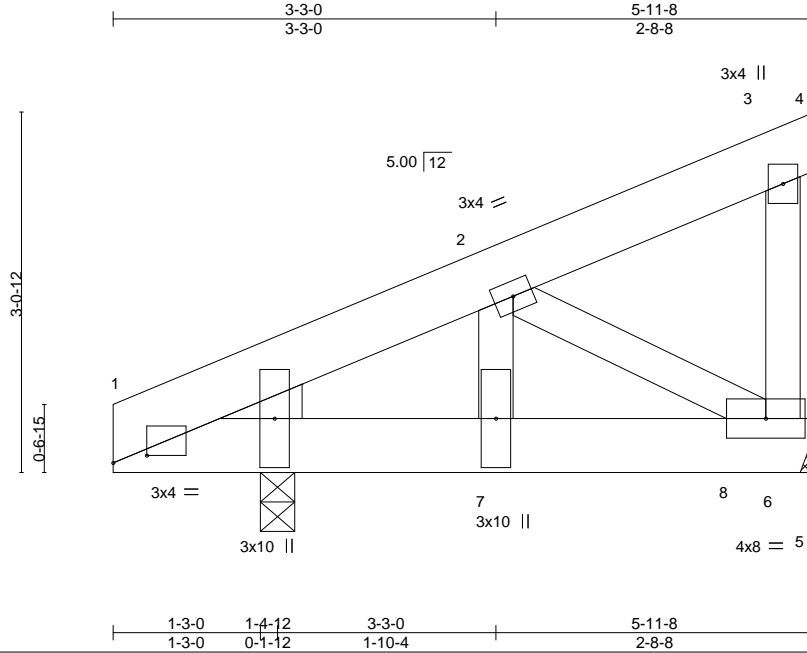   Vert: 2=-19(F) 5=-19(F) 6=-6(F) 7=-6(F)

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	XB1	JACK-OPEN	4	1		I52713925
					Job Reference (optional)	

Comtech, Inc,　　　Fayetteville, NC - 28314,　　　　　　8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:09 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-J11Fy2_ppWi98_LpiV9PS6ILj?0VCm?WKXAzZBz3RoW

5-11-8
5-11-8

Scale = 1:18.0

3x4 ═

3x10 ‖

1-3-0	1-4-12	5-11-8
1-3-0	0-1-12	4-6-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	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-
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.
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=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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

June 24,2022

ENGINEERING BY
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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	I52713926
J0323-1298	XB1-GR	JACK-CLOSED GIRDER	1	**2**	Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:09 2022 Page 1
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-J11Fy2_ppWi98_LpiV9PS6INp?0yClGWKXAzZBz3RoW

Scale = 1:19.6

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	0.11	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	7	>999	240	Weight: 77 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, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   6=Mechanical, 1=0-3-8
            Max Horz 1=111(LC 8)
            Max Uplift 6=-309(LC 8), 1=-106(LC 8)
            Max Grav 6=1379(LC 1), 1=611(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-1126/179
BOT CHORD   1-7=-237/987, 6-7=-237/987
WEBS   2-7=-129/909, 2-6=-1150/276

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=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
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) except (jt=lb) 6=309, 1=106.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) 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

June 24,2022

Continued on page 2

TRENCO
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Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
						I52713926
J0323-1298	XB1-GR	JACK-CLOSED GIRDER	1	**2**	Job Reference (optional)	

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=-20, 1-5=-20
    Concentrated Loads (lb)
        Vert: 7=-766(B) 8=-770(B)

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Scale = 1:14.7

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%

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

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=-96(LC 5), 1=-51(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-
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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 42 lb up at 2-6-4, and 41 lb down and 70 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.
11) 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: 5=-16(F) 6=-24(F) 7=-16(F) 8=-8(F)

June 24,2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	Y1	JACK-OPEN	2	1		I52713928
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:11 2022 Page 1
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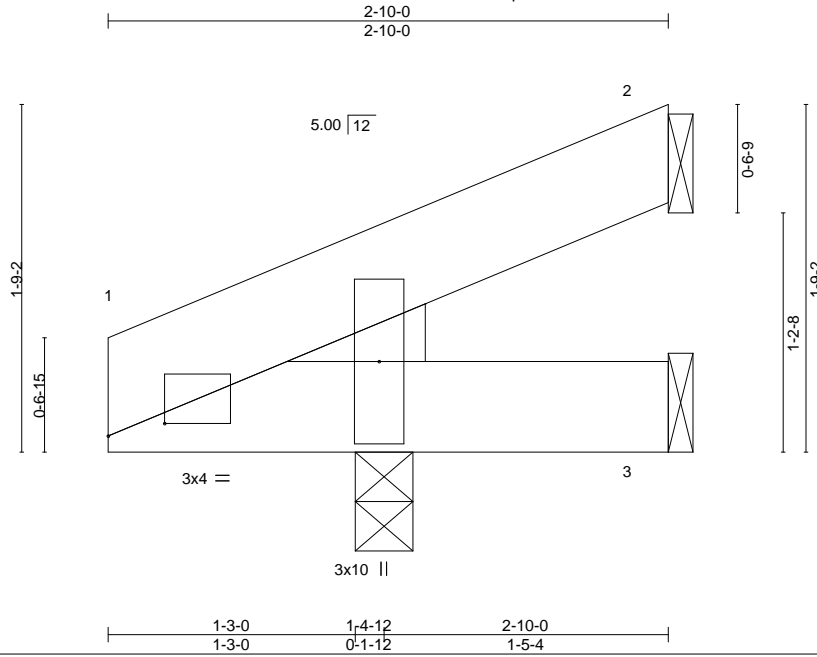
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Plate Offsets (X,Y)--   [1:0-3-7,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	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-
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 2-10-0 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=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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

June 24,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	YB1	JACK-OPEN	1	1		I52713929
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:12 2022 Page 1
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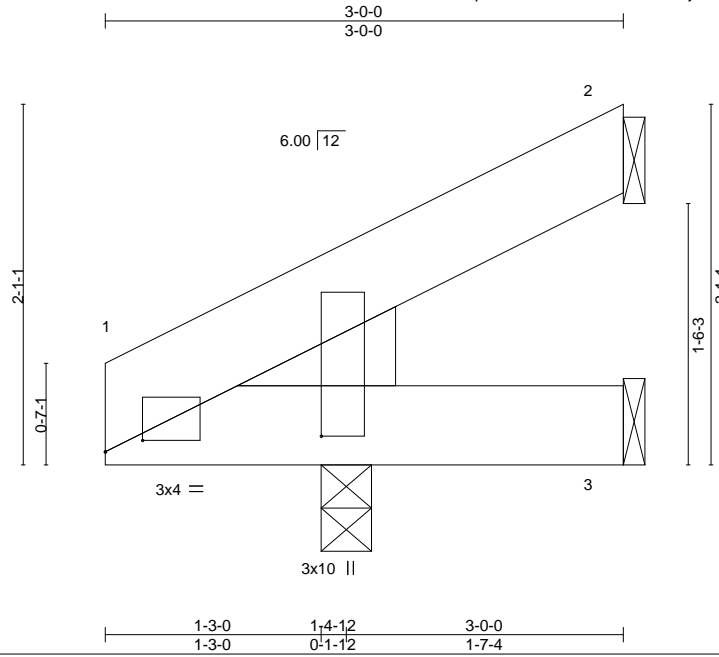
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Plate Offsets (X,Y)--   [1:0-2-9,0-0-13], [1:0-1-1,1-3-0]

LOADING (psf)		SPACING-	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	0.03	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: 18 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEDGE
Left: 2x6 SP No.1
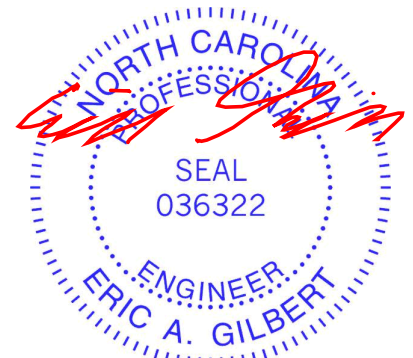
BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
   referenced standard ANSI/TPI 1.

June 24,2022

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 83 South Creek	
J0323-1298	YB2	JACK-OPEN	1	1		I52713930
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jun 23 09:19:12 2022 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]

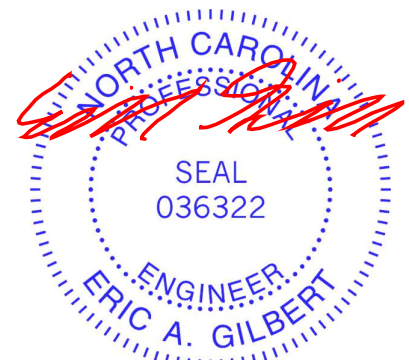| LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	1	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	1-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		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-
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) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

SEAL
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Symbols

PLATE LOCATION AND ORIENTATION

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

1 3/4"

0-1/16"

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

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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

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

Industry Standards:

ANSI/TPI1:
National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:
Design Standard for Bracing.

BCSI:
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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

6-4-8

1
2
3

TOP CHORDS

TOP CHORD

C1-8
C1-2
C7-8
W1-7
W2-7
WEBS
C2-3
C6-7
W3-7
C3-4
W3-6
W4-6
C5-6
C4-5

BOTTOM CHORDS

8
7
6
5
4

TOP CHORD

JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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⚠ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.

2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.

3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.

4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

5. Cut members to bear tightly against each other.

6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.

11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.

13. Top chords must be sheathed or purlins provided at spacing indicated on design.

14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

15. Connections not shown are the responsibility of others.

16. Do not cut or alter truss member or plate without prior approval of an engineer.

17. Install and load vertically unless indicated otherwise.

18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.

19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.