

RE: J0624-3320
Weaver/Lot 12 West Preserve/Harnett

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J0624-3320
Lot/Block:

Address:

City:

Model:

Subdivision:

State:

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

Design Code: IRC2015/TPI2014

Wind Code: ASCE 7-10

Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.4

Wind Speed: 130 mph

Floor Load: N/A psf

This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I63260747	A1	1/26/2024	21	I63260767	VB2	1/26/2024
2	I63260748	A1GE	1/26/2024	22	I63260768	VC1	1/26/2024
3	I63260749	A2	1/26/2024	23	I63260769	VC2	1/26/2024
4	I63260750	A3	1/26/2024	24	I63260770	VC3	1/26/2024
5	I63260751	A4	1/26/2024	25	I63260771	VC4	1/26/2024
6	I63260752	A5	1/26/2024	26	I63260772	VC5	1/26/2024
7	I63260753	A5GE	1/26/2024	27	I63260773	VC6	1/26/2024
8	I63260754	B1	1/26/2024				
9	I63260755	B1GE	1/26/2024				
10	I63260756	B2	1/26/2024				
11	I63260757	B3	1/26/2024				
12	I63260758	B4	1/26/2024				
13	I63260759	C1	1/26/2024				
14	I63260760	C1GE	1/26/2024				
15	I63260761	C2	1/26/2024				
16	I63260762	C2GR	1/26/2024				
17	I63260763	G1	1/26/2024				
18	I63260764	G1GE	1/26/2024				
19	I63260765	G2GR	1/26/2024				
20	I63260766	VB1	1/26/2024				

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, 2024.

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.



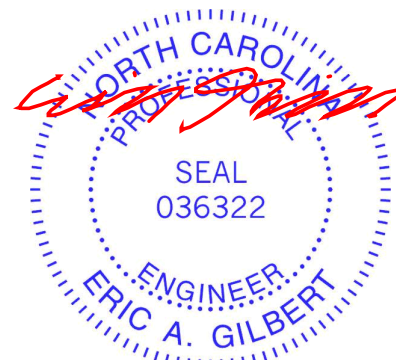
January 26, 2024

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:38:59 2024 Page 1
ID:2K0cXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwCDoi7J4zJC?P

12.8.1
0.4-0
0.10-8
6-1-12
6-1-12
3-4-4
7-0-13
26-7-0
10-0-3
36-7-3
10-0-3
38-1-8
1-6-5
6x6 =
7.00 | 12
20
21
22
4x8 =
4x4 = 6
5
6x6 =
2x4 || 3
4x6 = 19
3
4
6x6 =
2x4 || 16
5x8 =
4x8 =
2x4 // 15
14
23
24
4x4 =
6x8 =
2x4 || 2x4 || 2x4 || 4x4 =
4x4 =
5-11-4
0.5-8
6-1-12
6-1-12
13-6-8
7-4-12
21-1-0
7-6-8
32-1-0
11-0-0
38-1-8
6-0-8

Scale = 1:81.8

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 33-6-15, Exterior(2) 33-6-15 to 37-11-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 16 and 85 lb uplift at joint 10.
 - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 



Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DS8-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

818 Soundside Road
Edenton, NC 27932

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ID:2K0cXZEhXizrAW8Zk1iza7zraGJ-RfC?PsB70Ha3NSaPantl8w3uITXbGKWrCDoi7J4zJC?f

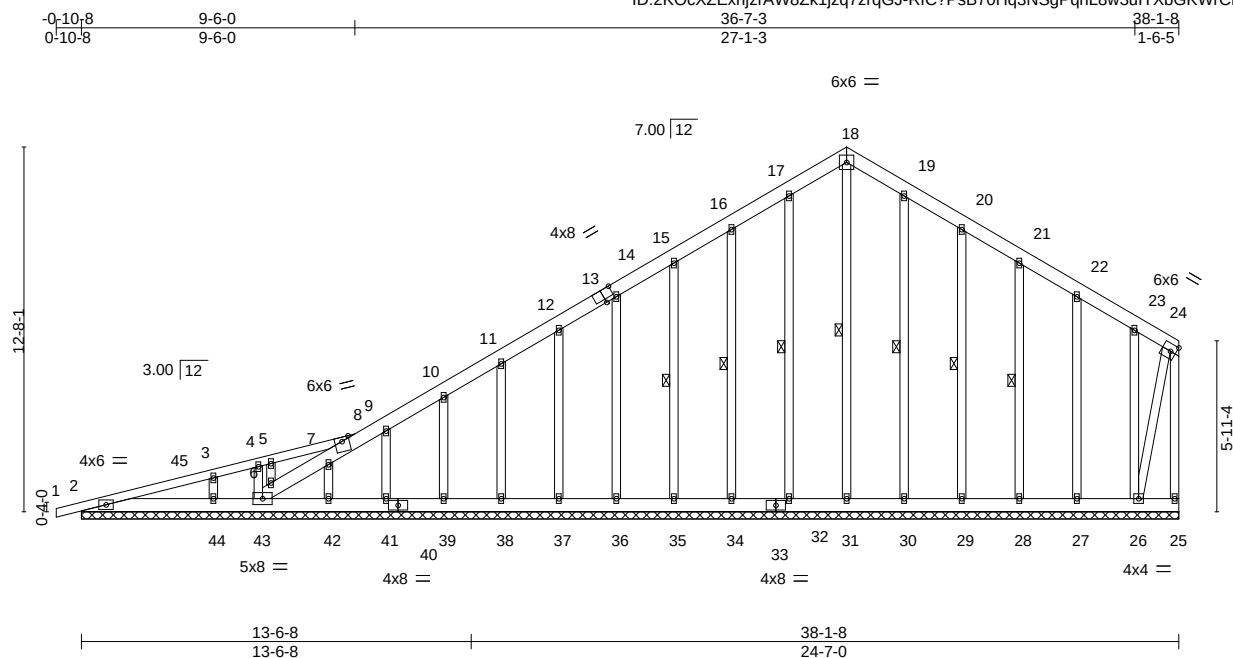


Plate Offsets (X,Y)--		[13:0-4-0,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	25	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 370 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1 *Except* 1-8: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS	2x4 SP No.2		6-0-0 oc bracing: 2-44,43-44.
OTHERS	2x4 SP No.2	WEBS	1 Row at midpt 18-31, 17-32, 16-34, 15-35, 19-30, 20-29, 21-28

REACTIONS. All bearings 38-1-8.
 (lb) - Max Horz 2=404(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 43, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 30, 29, 28, 27
 except 2=-101(LC 6), 44=-120(LC 6), 26=-181(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 25, 43, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 30, 29,
 28, 27, 26 except 44=367(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-328/262, 9-10=-286/262, 16-17=-206/282, 17-18=-236/296, 18-19=-236/283

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCFL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 22-2-3, Corner(3) 22-2-3 to 30-11-13, Exterior(2) 30-11-13 to 33-6-15, Corner(3) 33-6-15 to 37-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" 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" tall by 2'-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) 25, 43, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 30, 29, 28, 27 except (jt=lb) 2=101, 44=120, 26=181.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DS8-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)



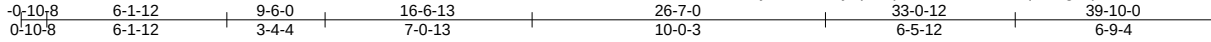
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	A2	ROOF SPECIAL	3	1	63260749
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:2KOcXZExhjrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



6x6 =

Scale = 1:78.7

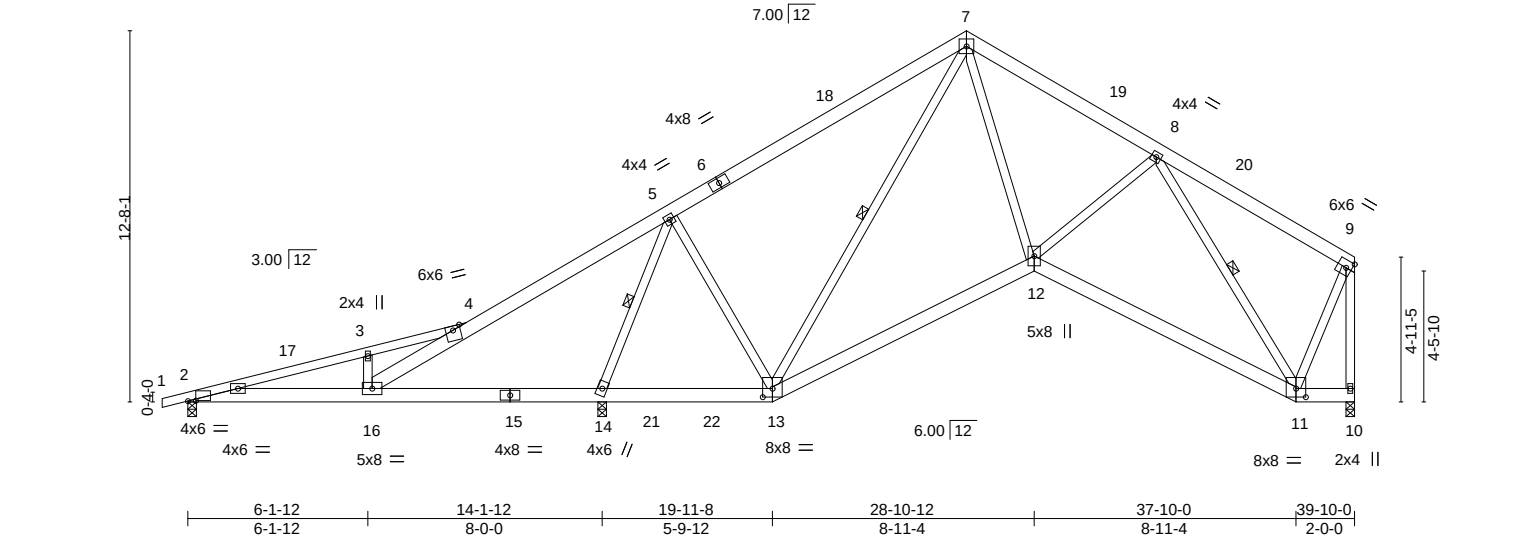


Plate Offsets (X,Y)--		[2:0-3-4,0-0-3], [11:0-4-0,0-3-8], [13:0-4-0,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.61		Vert(LL)	-0.06 12-13	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.26		Horz(CT)	-0.14 12-13	>999	240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.76		Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07 14-16	>999	240	Weight: 294 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
1-4: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 8-11, 7-13

REACTIONS.

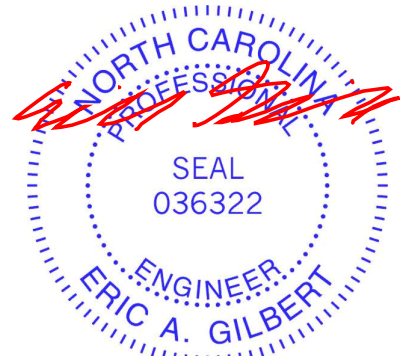
(size) 10=0-3-8, 14=0-3-8, 2=0-3-8
Max Horz 2=292(LC 7)
Max Uplift 10=-66(LC 11), 14=-290(LC 10), 2=-130(LC 6)
Max Grav 10=809(LC 18), 14=2251(LC 1), 2=190(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-267/453, 3-4=-220/413, 4-16=-817/980, 4-5=-995/1545, 5-7=-367/254, 7-8=-919/122, 8-9=-344/89, 9-10=-818/71
BOT CHORD 2-16=-374/133, 14-16=-1194/820, 13-14=-448/454, 12-13=0/676, 11-12=-50/740
WEBS 3-16=-348/179, 5-14=-2196/1028, 5-13=-271/797, 7-12=0/718, 8-12=-52/277, 8-11=-807/70, 9-11=0/572, 7-13=-889/292

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 35-3-7, Exterior(2) 35-3-7 to 39-8-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 14=290, 2=130.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26, 2024

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

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ENGINEERING BY
TRENCO
A MiTek Affiliate

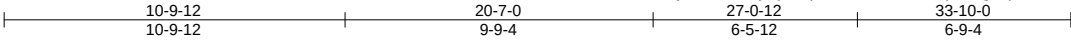
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	A3	ROOF SPECIAL	1	1	63260750
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:2KOcXZExhjrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



5x5 =

Scale = 1:73.1

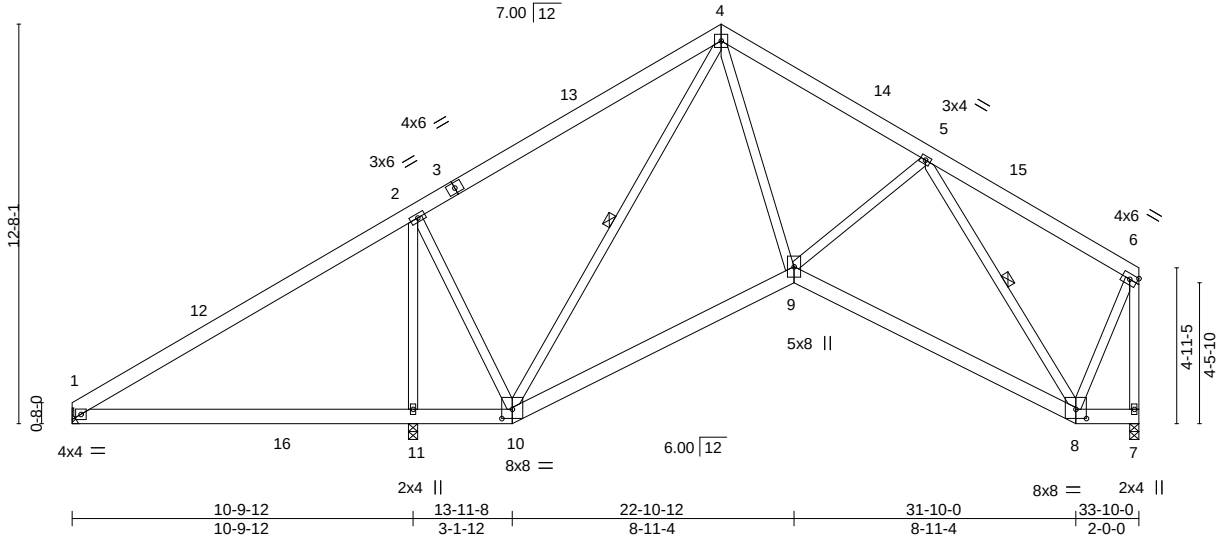


Plate Offsets (X,Y)--		[8:0-4-0,0-3-8], [10:0-4-0,0-3-8]									
LOADING (psf)		SPACING-2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.08 1-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18 1-11	>730	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06 7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03 1-11	>999	240	Weight: 263 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-8, 4-10
REACTIONS.	
(size) 1=Mechanical, 7=0-3-8, 11=0-3-8	
Max Horz 1=287(LC 7)	
Max Uplift 7=-68(LC 11), 11=-193(LC 10)	
Max Grav 1=380(LC 21), 7=879(LC 1), 11=1600(LC 17)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-446/253, 4-5=-975/322, 5-6=-353/136, 6-7=-887/191
BOT CHORD	9-10=-14/641, 8-9=-173/815
WEBS	4-9=-87/773, 5-8=-901/224, 6-8=-51/620, 4-10=-680/37, 2-10=0/407, 2-11=-1207/443

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 29-3-7, Exterior(2) 29-3-7 to 33-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 11=193.



January 26,2024

Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc.

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10-9-12
10-9-12

20-7-0
9-9-4

27-0-12
6-5-12

33-10-0
6-9-4

Scale = 1:73.2

Plate Offsets (X,Y)-- [8:0-4-0,0-3-8], [10:0-4-0,0-3-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.09 1-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Vert(CT) -0.19 1-11 >860 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 1-11 >999 240	Weight: 263 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-8, 4-10

REACTIONS. (size) 1=Mechanical, 10=0-3-8, 7=0-3-8
Max Horz 1=287(LC 7)
Max Uplift 10=-209(LC 10), 7=-55(LC 11)
Max Grav 1=444(LC 21), 10=1692(LC 17), 7=683(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-319/92, 2-4=-15/431, 4-5=-590/215, 5-6=-277/115, 6-7=-694/136
BOT CHORD 1-11=-132/263, 10-11=-132/263, 9-10=-23/318, 8-9=-107/576
WEBS 4-9=-45/621, 5-8=-598/139, 6-8=-4/454, 4-10=-1040/138, 2-10=-1080/345, 2-11=0/509

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 29-3-7, Exterior(2) 29-3-7 to 33-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 10=209.

NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL
036322
ERIC A. GILBERT

January 26,2024

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

TRENCO

A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett	163260752
J0624-3320	A5	ROOF SPECIAL	7	1		

Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:06 2024 Page 1

ID:2KOcXZExhjrAW8Zk1jqz7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

10-9-12

20-7-0

30-7-3

35-8-0

41-0-4

49-10-0

50-8-8

10-9-12

9-9-4

10-0-3

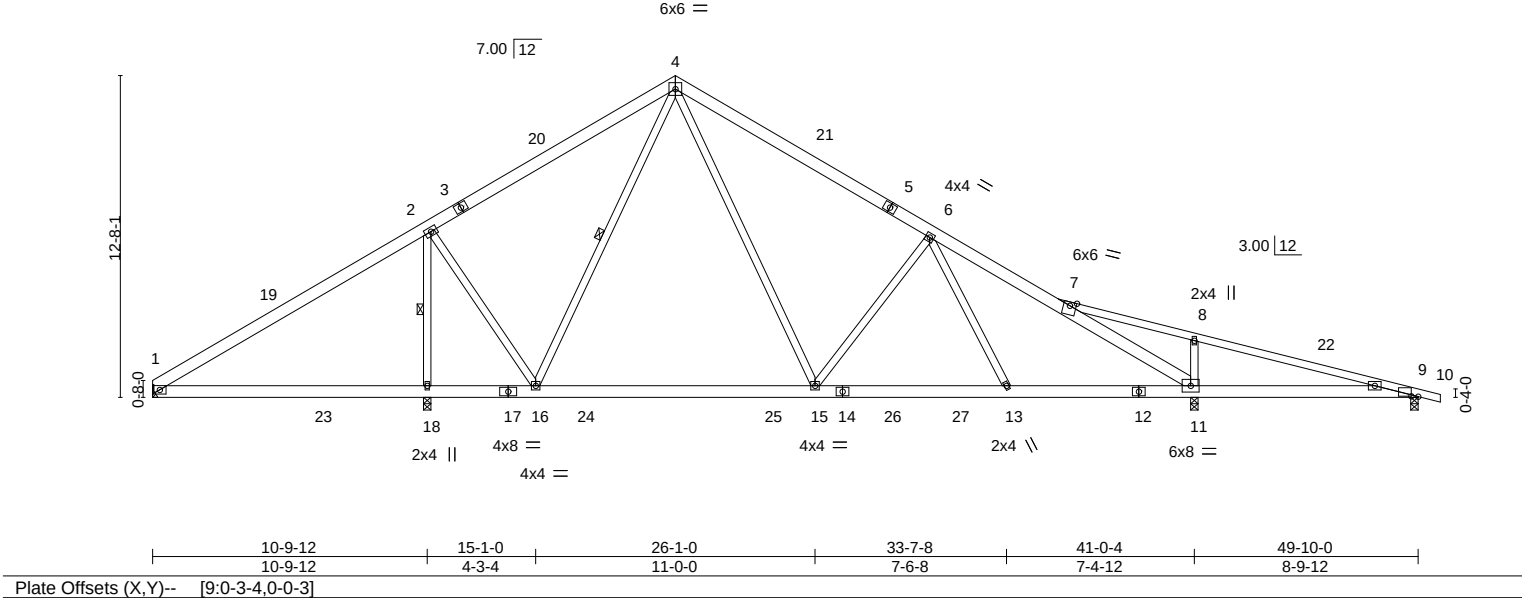
5-0-13

5-4-4

8-9-12

0-10-8

Scale = 1:90.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.22 15-16 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.33 15-16 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.03 11 n/a n/a				
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.08 9-11 >999 240				

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1 *Except* 7-10: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-7-10 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 2-18, 4-16

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.

(lb) - Max Horz 1=-297(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 18=-163(LC 10), 11=-235(LC 11), 9=-130(LC 7)

Max Grav All reactions 250 lb or less at joint(s) except 1=389(LC 21), 18=2071(LC 17), 11=1687(LC 1), 9=293(LC 22)

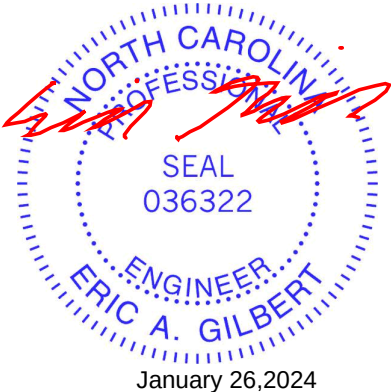
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-756/332, 4-6=-1451/415, 6-7=-1743/284, 7-11=-1921/296, 8-9=-186/259

BOT CHORD 15-16=0/755, 13-15=-102/1477, 11-13=-51/1543

WEBS 2-18=-1714/413, 2-16=0/930, 4-16=-510/54, 4-15=-140/1068, 6-15=-630/271, 6-13=0/253, 8-11=-496/244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 5-1-1, Interior(1) 5-1-1 to 15-7-3, Exterior(2) 15-7-3 to 25-6-13, Interior(1) 25-6-13 to 45-8-11, Exterior(2) 45-8-11 to 50-8-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 18=163, 11=235, 9=130.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	A5GE	GABLE	1	1	163260753
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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ID:2KOcXZExhjrAW8Zk1jqz7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDdoi7J4zJC?f

13-11-0 29-0-0 34-6-0 43-2-0 44-0-8
13-11-0 15-1-0 5-6-0 8-8-0 0-10-8

Scale = 1:84.0

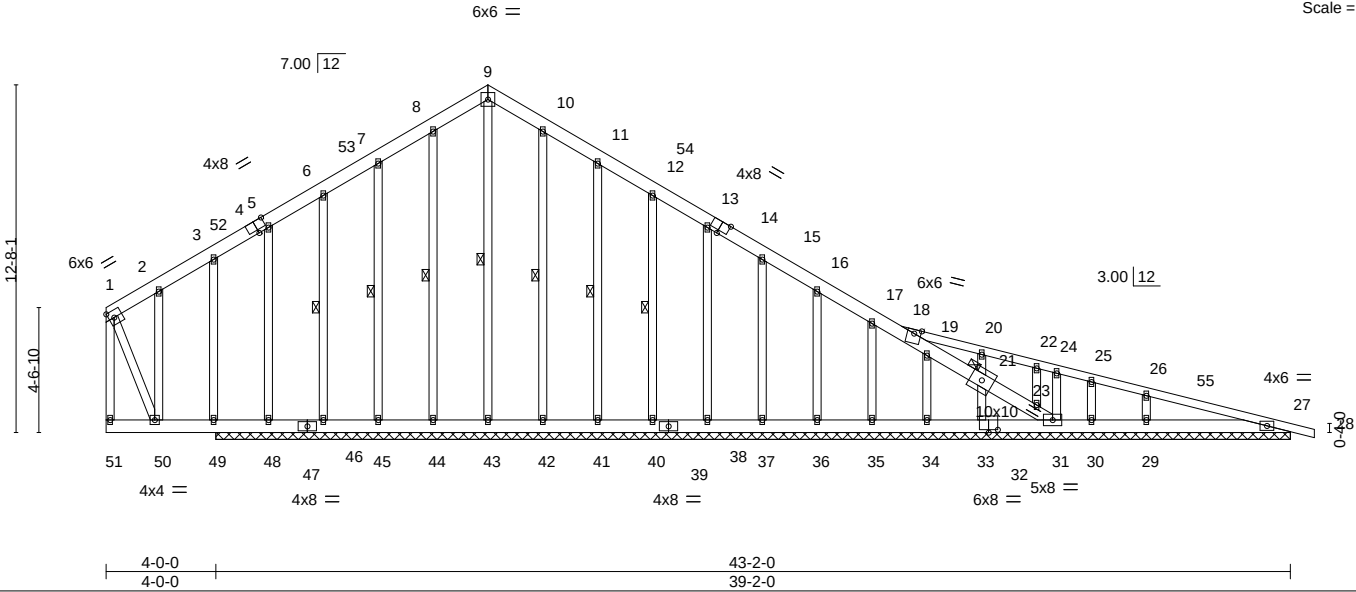


Plate Offsets (X,Y)--		[4:0-4-0,Edge], [14:0-4-0,Edge], [32:0-4-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.20		Vert(LL) 0.01	28	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.09		Vert(CT) 0.01	28	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.17		Horz(CT) 0.01	27	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014		Matrix-S						Weight: 405 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
18-28: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 50-51,30-31,29-30,27-29.
WEBS 1 Row at midpt 9-43, 8-44, 7-45, 6-46, 10-42, 11-41, 12-40
JOINTS 1 Brace at Jt(s): 21

REACTIONS.

All bearings 39-2-0.
(lb) - Max Horz 49=-370(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 44, 45, 46, 48, 42, 41, 40, 38, 37, 36, 35, 34 except 27=-106(LC 7), 49=-211(LC 10), 33=-125(LC 7), 30=-102(LC 7), 29=-163(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 27, 44, 45, 46, 48, 42, 41, 40, 38, 37, 36, 35, 34, 30 except 43=293(LC 19), 49=484(LC 17), 33=300(LC 22), 29=408(LC 1)

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

TOP CHORD 7-8=-209/315, 8-9=-238/351, 9-10=-238/363, 10-11=-209/355, 11-12=-154/313, 12-13=-172/276, 13-15=-189/257, 15-16=-208/270, 16-17=-243/296, 17-18=-274/296, 19-21=-269/166
BOT CHORD 48-49=-149/375, 46-48=-149/375, 45-46=-149/375, 44-45=-149/375, 43-44=-149/375, 42-43=-149/375, 41-42=-149/375, 40-41=-149/375, 38-40=-149/375, 37-38=-149/375, 36-37=-149/375, 35-36=-149/375, 34-35=-149/375, 33-34=-149/375, 31-33=-142/368
WEBS 9-43=-253/83, 3-49=-257/148, 26-29=-282/177

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-6-3, Exterior(2) 9-6-3 to 18-3-13, Interior(1) 18-3-13 to 39-7-11, Exterior(2) 39-7-11 to 44-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 44, 45, 46, 48, 42, 41, 40, 38, 37, 36, 35, 34 except (jt=lb) 27=106, 49=211, 33=125, 30=102, 29=163.
- 10) Non Standard bearing condition. Review required.
- 11) 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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ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	B1	COMMON	1	1	63260754
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

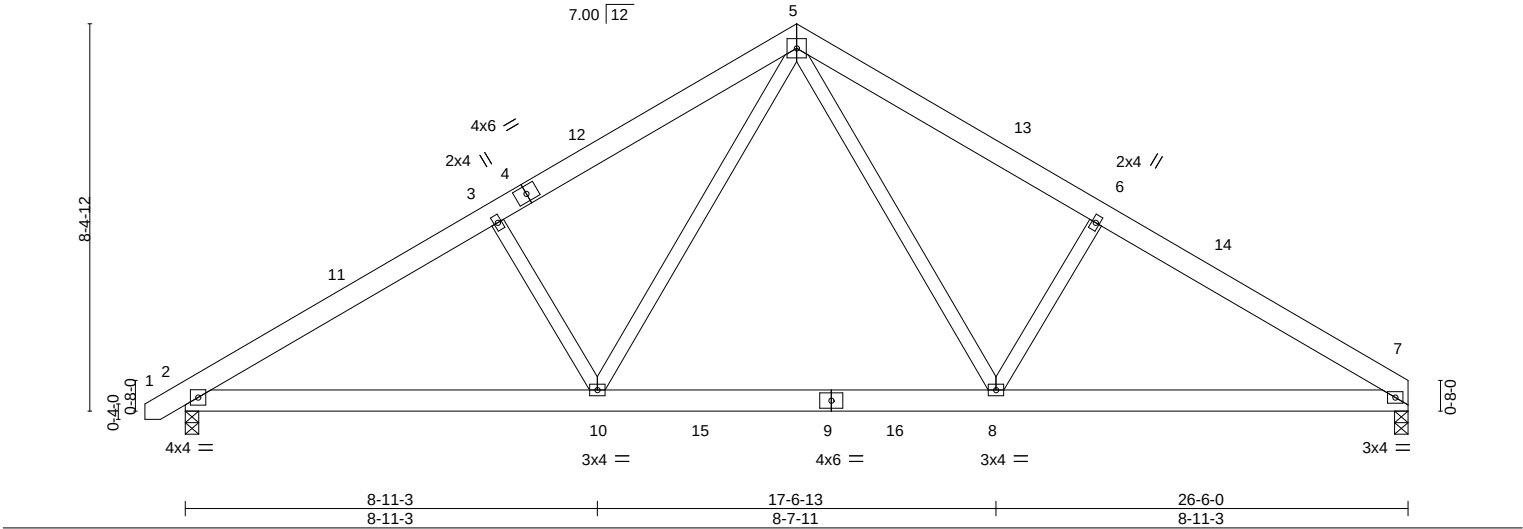
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ID:2KOcXZExhjzrAW8Zk1jqz7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

0-10-8 6-9-4 13-3-0 19-8-12 26-6-0
0-10-8 6-9-4 6-5-12 6-5-12 6-9-4

5x5 =

Scale = 1:49.9



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 0.19	Vert(LL)	-0.10 8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.14 8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 10	>999	240		
								Weight: 175 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 2=0-3-8
Max Horz 2=193(LC 7)
Max Uplift 7=-85(LC 11), 2=-97(LC 10)
Max Grav 7=1075(LC 18), 2=1124(LC 17)

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

TOP CHORD 2-3=-1686/416, 3-5=-1525/463, 5-6=-1529/470, 6-7=-1672/422
BOT CHORD 2-10=-252/1492, 8-10=-60/971, 7-8=-262/1355
WEBS 5-8=-156/714, 6-8=-409/259, 5-10=-147/710, 3-10=-408/247

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.



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ENGINEERING BY
TRENCO
A MITEK Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	B1GE	GABLE	1	1	63260755
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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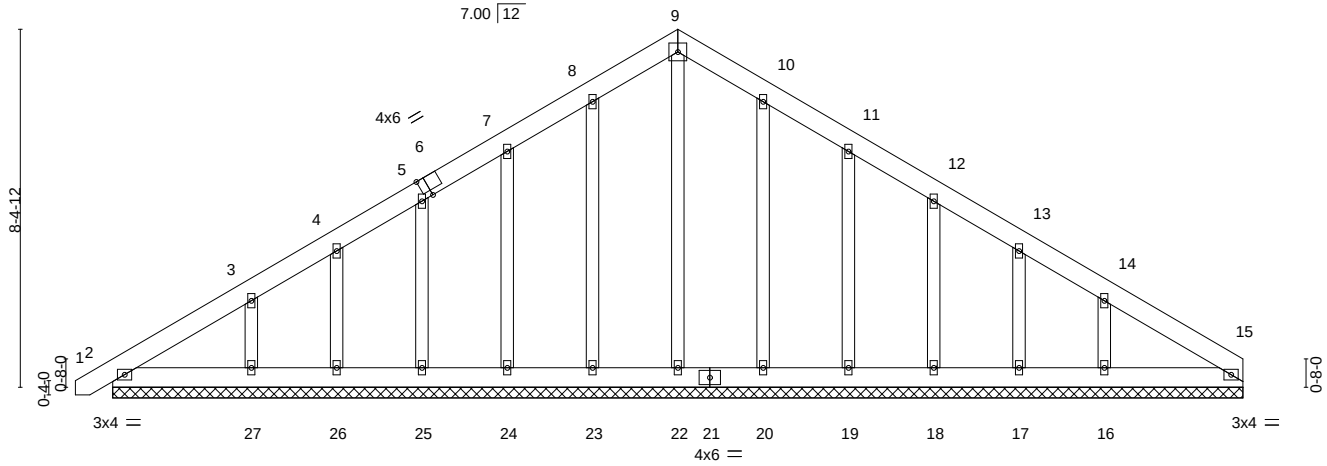
0-10-8
0-10-8

13-3-0
13-3-0

26-6-0
13-3-0

5x5 =

Scale = 1:54.0



				26-6-0					
Plate Offsets (X,Y)--		[6:0-2-3,Edge]		26-6-0					
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	0.04	Vert(LL)	-0.00 1 n/r	120	MT20 244/190
TCDL	10.0	Lumber DOL 1.15		BC	0.03	Vert(CT)	0.00 1 n/r	120	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.14	Horz(CT)	0.00 15 n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 207 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 26-6-0.
(lb) - Max Horz 2=242(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 20, 19, 18, 17 except 27=141(LC 10),
16=143(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17 except 27=282(LC 17), 16=288(LC 18)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-8 to 3-8-5, Exterior(2) 3-8-5 to 8-10-3, Corner(3) 8-10-3 to 17-7-13, Exterior(2) 17-7-13 to 22-1-3, Corner(3) 22-1-3 to 26-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 20, 19, 18, 17 except (jt=lb) 27=141, 16=143.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett	163260756
J0624-3320	B2	COMMON	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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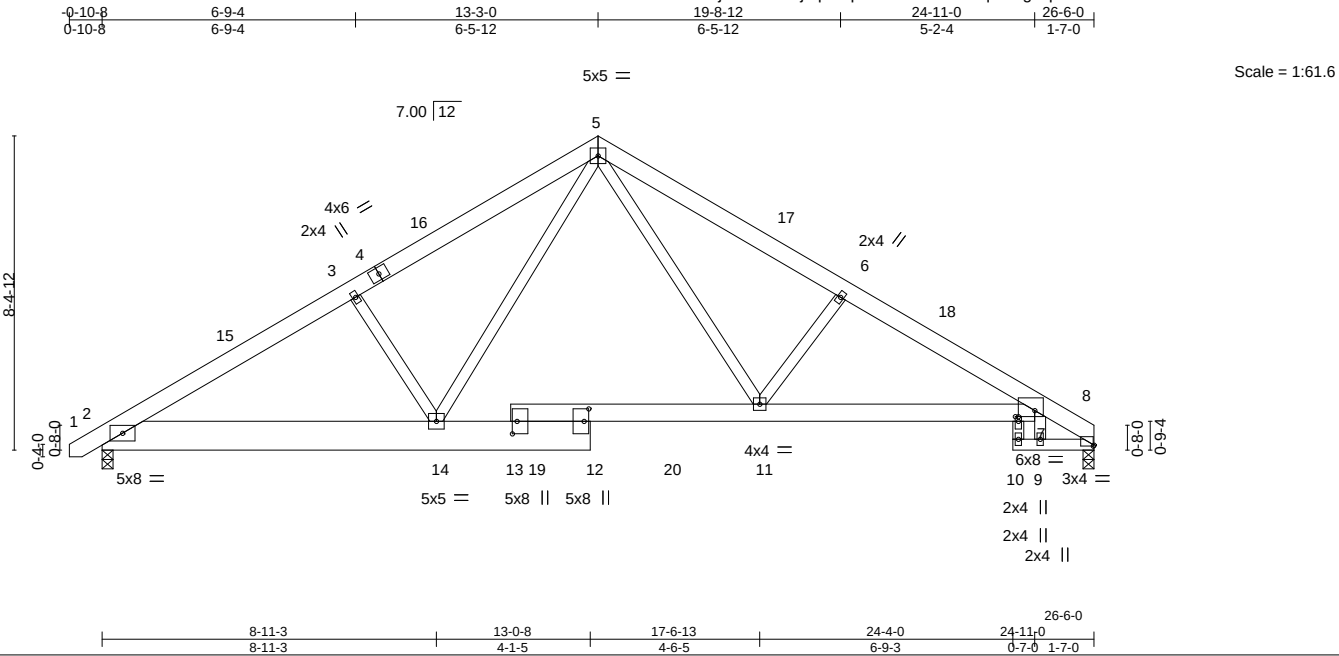


Plate Offsets (X,Y)--	[7:0-1-8,0-1-0], [7:0-5-4,0-1-15], [8:0-0-4,0-0-5], [12:0-4-0,0-1-8], [13:0-4-0,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.13 10	>999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.27 10	>999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.18 8	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10 10	>999 240
						Weight: 199 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 2-12: 2x10 SP No.1, 8-10: 2x4 SP No.1
 WEBS 2x4 SP No.2

REACTIONS.

(size) 8=0-3-8, 2=0-3-8
 Max Horz 2=196(LC 9)
 Max Uplift 8=-79(LC 11), 2=-97(LC 10)
 Max Grav 8=1076(LC 18), 2=1111(LC 17)

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

TOP CHORD 2-3=-1726/417, 3-5=-1560/458, 5-6=-1785/502, 6-7=-1966/485, 7-8=-736/185
 BOT CHORD 2-14=-247/1535, 11-14=-67/1027, 7-11=-322/1721
 WEBS 5-11=-191/977, 6-11=-600/281, 5-14=-129/647, 3-14=-411/245

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	B3	COMMON	3	1	63260757
Job Reference (optional)					

Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:14 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

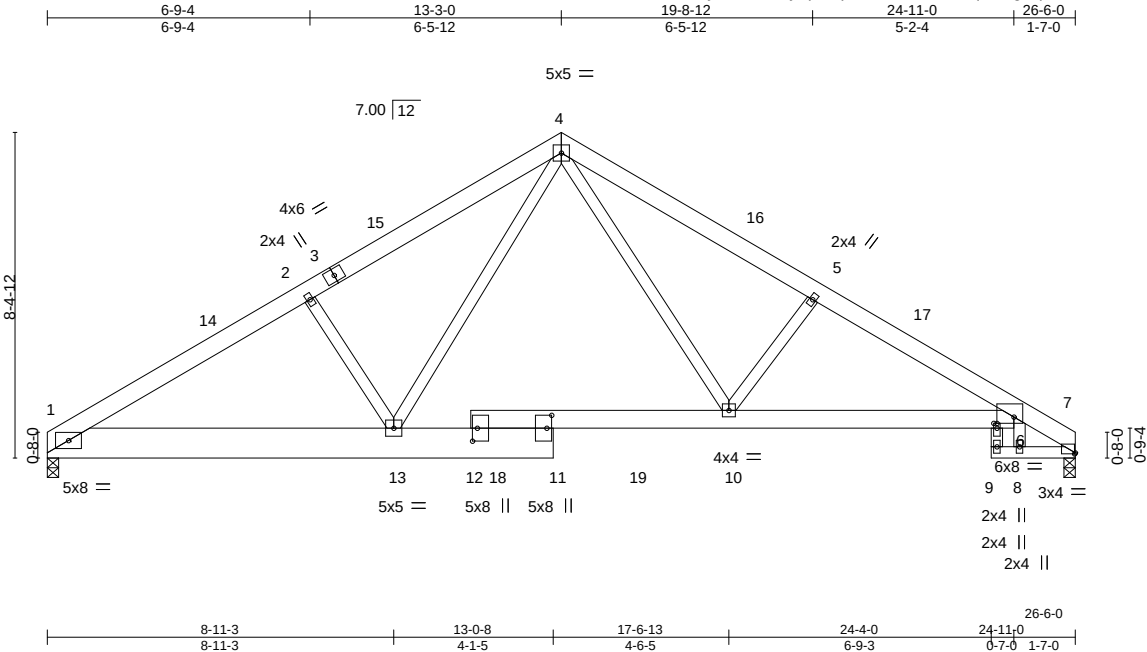


Plate Offsets (X,Y)--		[6:0-1-8,0-1-0], [6:0-5-4,0-1-15], [7:0-0-4,0-0-5], [11:0-4-0,0-1-8], [12:0-4-0,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90
TCDL 10.0	Lumber DOL	1.15	BC 0.56
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.13 9 >999 360
			Vert(CT) -0.27 9 >999 240
			Horz(CT) 0.18 7 n/a n/a
			Wind(LL) 0.10 9 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 197 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

1-11: 2x10 SP No.1, 7-9: 2x4 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 1=0-3-8

Max Horz 1=-191(LC 6)

Max Uplift 7=-79(LC 11), 1=-85(LC 10)

Max Grav 7=1077(LC 18), 1=1063(LC 17)

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

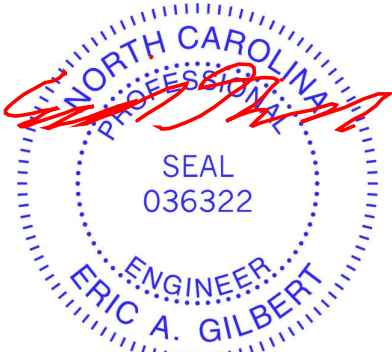
TOP CHORD 1-2=-1730/429, 2-4=-1564/469, 4-5=-1787/507, 5-6=-1968/491, 6-7=-736/186

BOT CHORD 1-13=-263/1544, 10-13=-71/1028, 6-10=-327/1722

WEBS 4-10=-194/979, 5-10=-600/282, 4-13=-139/651, 2-13=-422/261

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; 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 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1.



January 26,2024

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	B4	COMMON	1	1	i63260758
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

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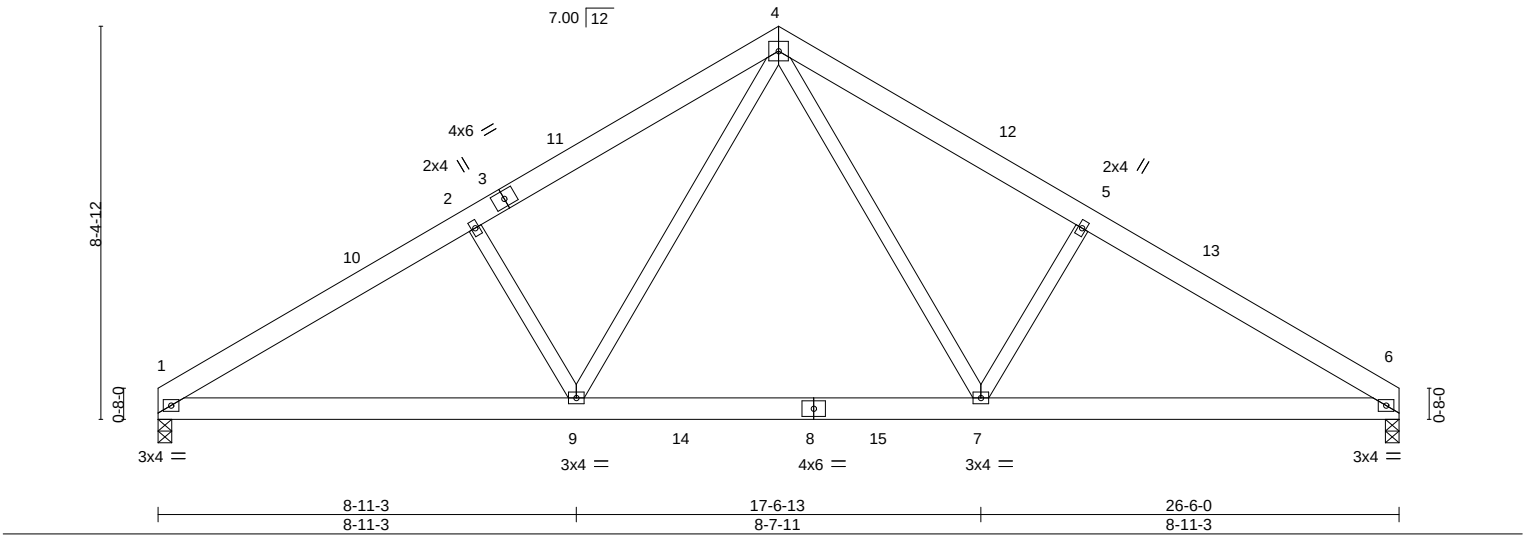
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6-9-4 13-3-0 19-8-12 26-6-0

6-9-4 6-5-12 6-5-12 6-9-4

5x5 =

Scale = 1:49.2



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 0.19	Vert(LL)	-0.10 7-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.14 7-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 9	>999	240	Weight: 173 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 1=0-3-8
Max Horz 1=189(LC 7)
Max Uplift 6=-85(LC 11), 1=-85(LC 10)
Max Grav 6=1075(LC 18), 1=1075(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1673/426, 2-4=-1529/474, 4-5=-1530/474, 5-6=-1673/426
BOT CHORD 1-9=-265/1498, 7-9=-64/972, 6-7=-265/1356
WEBS 4-7=-157/714, 5-7=-409/259, 4-9=-157/714, 2-9=-409/259

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1.



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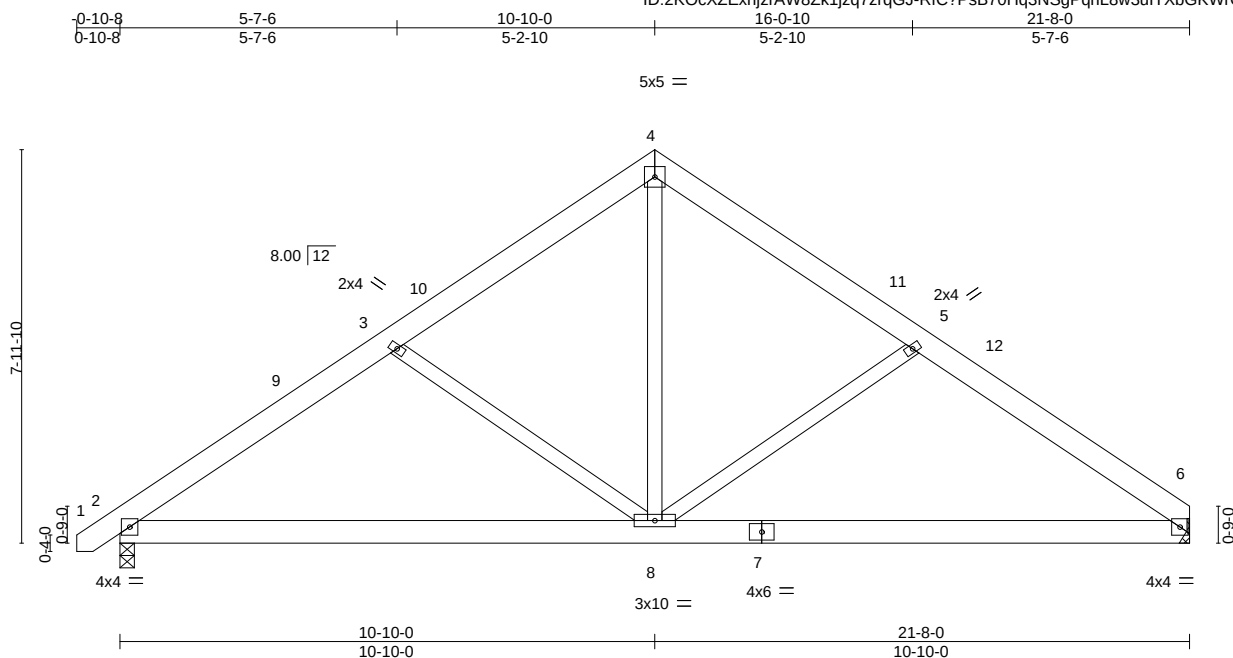
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

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ID:2K0cXZEhXizrAW8Zk1iza7zraGJ-RfC?PsB70Ha3NSaPantl8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.07 6-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.15 6-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 2-8 >999 240	Weight: 144 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

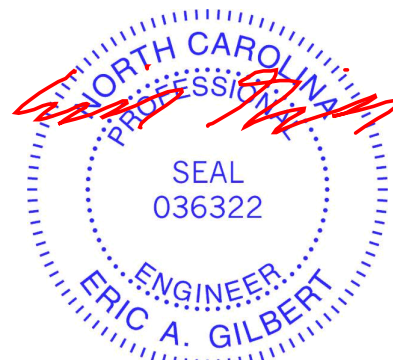
(size) 6=Mechanical, 2=0-3-8
Max Horz 2=183(LC 7)
Max Uplift 6=-66(LC 11), 2=-78(LC 10)
Max Grav 6=856(LC 1), 2=909(LC 1)

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

TOP CHORD 2-3=-1152/344, 3-4=-893/301, 4-5=-893/302, 5-6=-1156/350
BOT CHORD 2-8=-179/918, 6-8=-192/893
WEBS 3-8=-363/232, 4-8=-160/681, 5-8=-367/248

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDF=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 6-5-3, Exterior(2) 6-5-3 to 15-2-13, Interior(1) 15-2-13 to 17-1-15, Exterior(2) 17-1-15 to 21-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) 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) 6, 2.



January 26, 2024

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

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-15169: 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	C1GE	GABLE	1	1	I63260760
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:2KOcXZExhjrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-10-8 10-10-0 21-8-0 22-6-8

0-10-8 10-10-0 10-10-0 0-10-8

5x5 =

Scale = 1:50.6

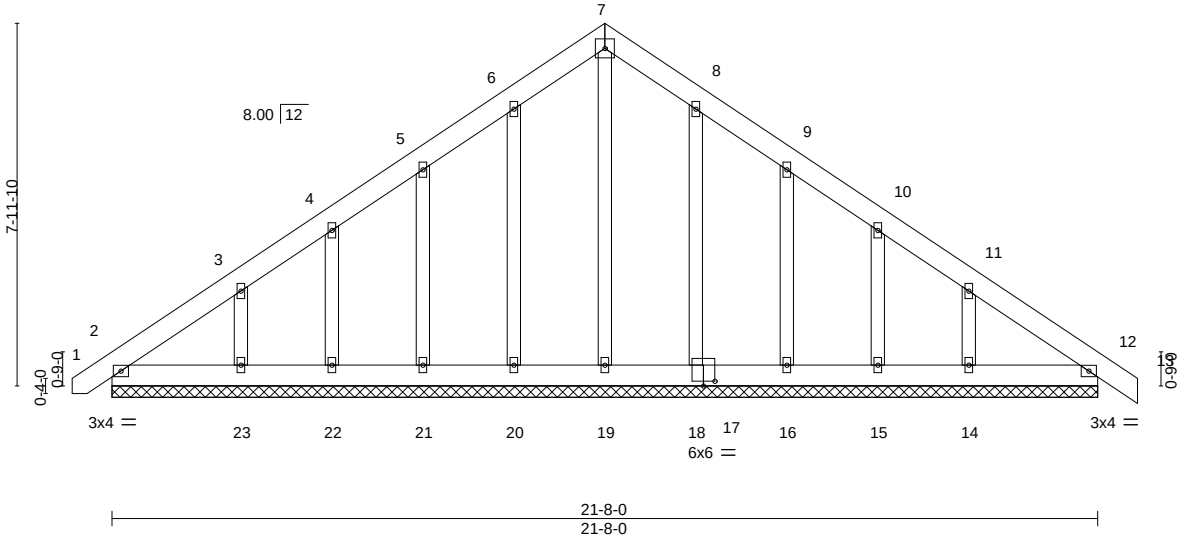


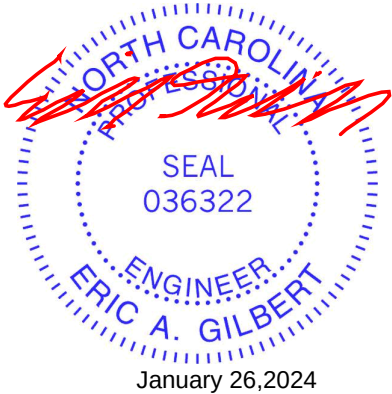
Plate Offsets (X,Y)--		[17:0-3-0,0-1-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) 0.00 12 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 12 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 172 lb	FT = 20%

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

REACTIONS. All bearings 21-8-0.
 (lb) - Max Horz 2=-233(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20, 22, 18, 15 except 21=-101(LC 10), 23=-146(LC 10), 16=-103(LC 11), 14=-140(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 18, 16, 15, 14 except 23=255(LC 17)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-9 to 3-8-4, Exterior(2) 3-8-4 to 6-5-3, Corner(3) 6-5-3 to 15-2-13, Exterior(2) 15-2-13 to 18-1-11, Corner(3) 18-1-11 to 22-6-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20, 22, 18, 15 except (jt=lb) 21=101, 23=146, 16=103, 14=140.



January 26,2024

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	C2	QUEENPOST	3	1	63260761
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:19 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

5-7-6

5-7-6

10-10-0

5-2-10

16-0-10

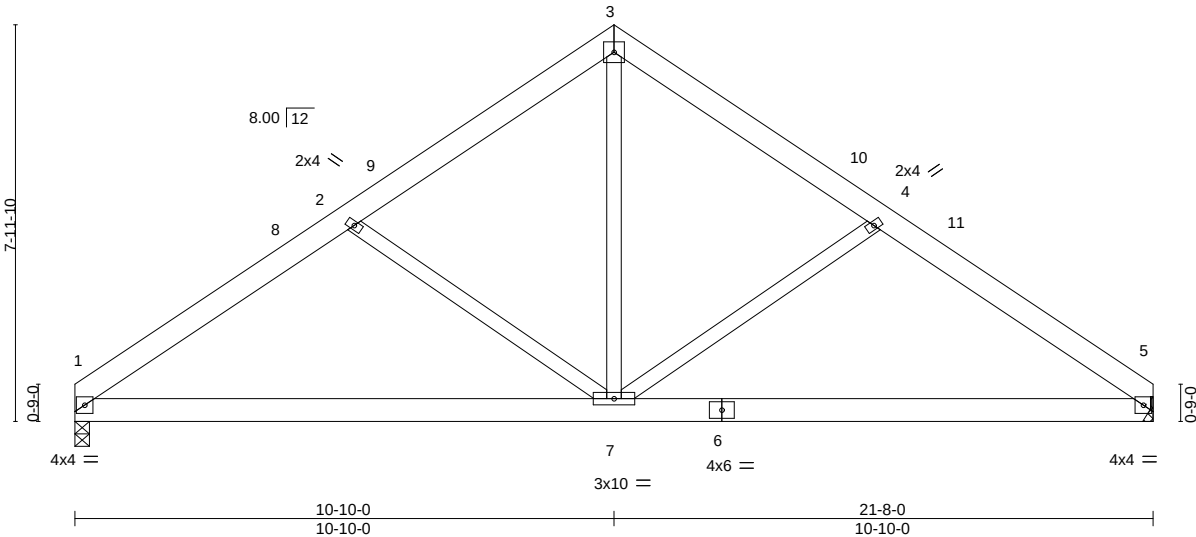
5-2-10

21-8-0

5-7-6

5x5 =

Scale = 1:46.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.07	5-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.15	5-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	7	>999	240		
									Weight: 142 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS.

(size) 5=Mechanical, 1=0-3-8

Max Horz 1=-179(LC 6)

Max Uplift 5=-66(LC 11), 1=-66(LC 10)

Max Grav 5=857(LC 1), 1=857(LC 1)

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

TOP CHORD 1-2=-1155/354, 2-3=-893/307, 3-4=-893/307, 4-5=-1158/355

BOT CHORD 1-7=-194/922, 5-7=-195/895

WEBS 2-7=-361/247, 3-7=-167/680, 4-7=-367/248

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 6-5-3, Exterior(2) 6-5-3 to 15-2-13, Interior(1) 15-2-13 to 17-1-15, Exterior(2) 17-1-15 to 21-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 1.



January 26,2024

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	C2GR	FINK	1	2	63260762

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:21 2024 Page 1

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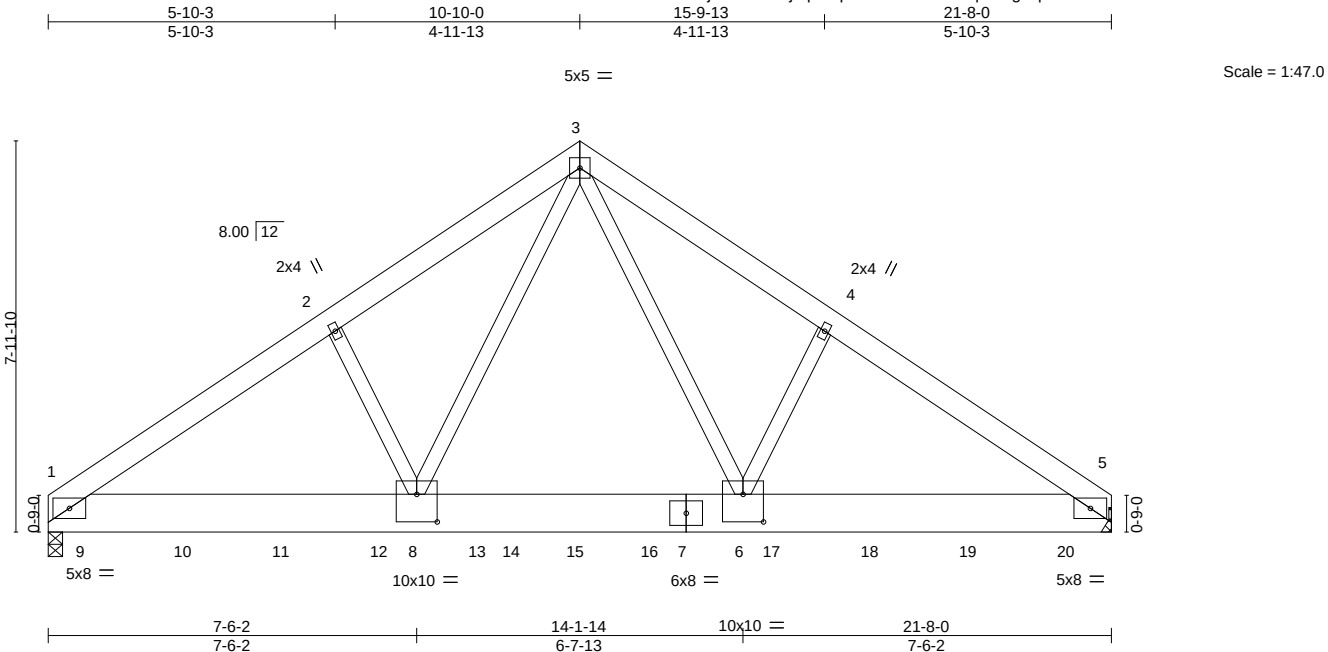


Plate Offsets (X,Y)--		[6:0-5-0,0-6-12], [8:0-5-0,0-6-12]									
LOADING (psf)		SPACING-2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.04	1-8	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	1-8	>999	240	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.02	5	n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	6-8	>999	240	Weight: 361 lb FT = 20%

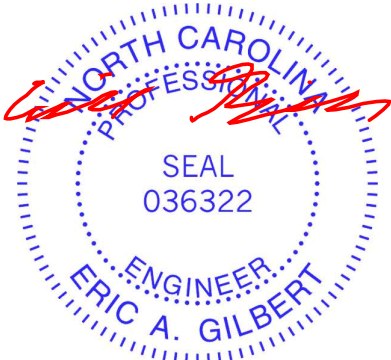
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=-175(LC 25)
Max Uplift 5=-146(LC 9)
Max Grav 1=3031(LC 1), 5=2904(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3741/0, 2-3=-3604/42, 3-4=-3556/233, 4-5=-3691/168
BOT CHORD 1-8=0/3014, 6-8=0/2096, 5-6=-75/2979
WEBS 2-8=-303/209, 3-8=0/2016, 3-6=-269/1918, 4-6=-308/206

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCdL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=146.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 364 lb down at 0-8-12, 424 lb down at 2-8-12, 424 lb down at 4-8-12, 424 lb down at 6-8-12, 369 lb down and 41 lb up at 8-8-12, 369 lb down and 41 lb up at 10-8-12, 369 lb down and 41 lb up at 12-8-12, 369 lb down and 41 lb up at 14-8-12, 369 lb down and 41 lb up at 16-8-12, and 369 lb down and 41 lb up at 18-8-12, and 371 lb down and 39 lb up at 20-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	C2GR	FINK	1	2	I63260762
					Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-5=-20, 1-3=-60, 3-5=-60
Concentrated Loads (lb)
Vert: 7=-369(B) 9=-364(B) 10=-424(B) 11=-424(B) 12=-424(B) 13=-369(B) 15=-369(B) 17=-369(B) 18=-369(B) 19=-369(B) 20=-371(B)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	G1	QUEENPOST	6	1	63260763
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:2KOcXZExhjzrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

0-10-8 5-7-6 11-0-0 16-4-10 22-0-0 22-10-8

0-10-8 5-7-6 5-4-10 5-4-10 5-7-6 0-10-8

4x4 =

Scale = 1:42.9

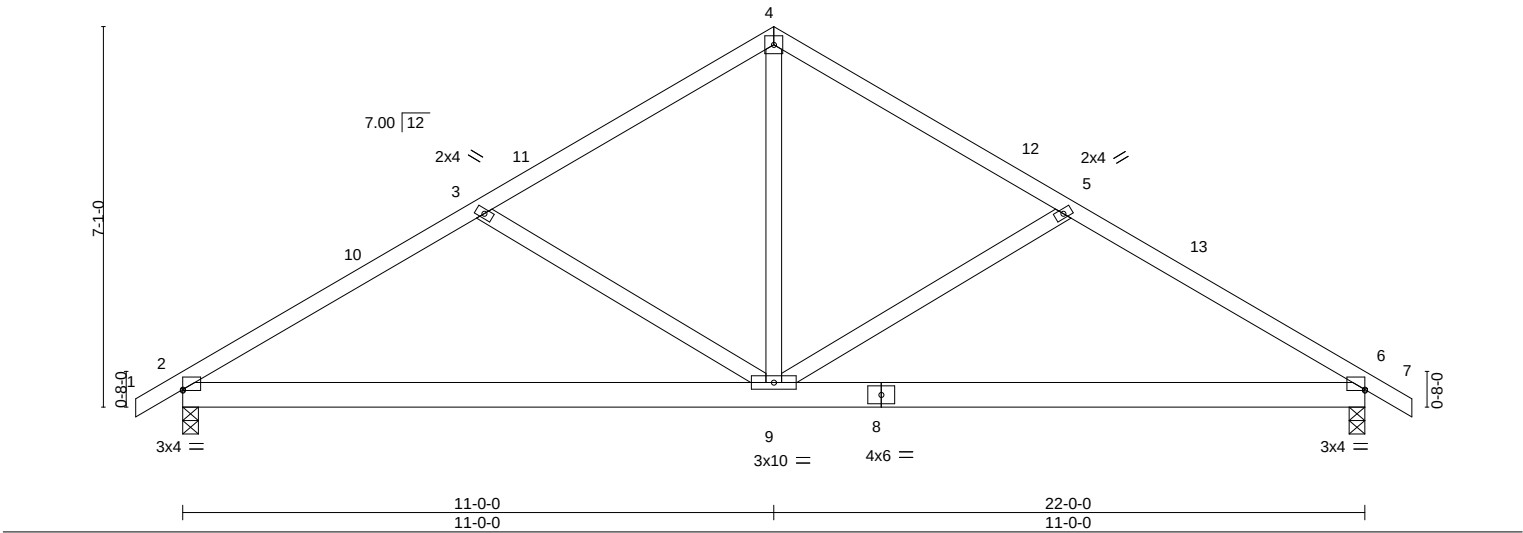


Plate Offsets (X,Y)--		[2:Edge,0-0-3], [6:0-0-0,0-0-3]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31
TCDL 10.0	Lumber DOL	1.15	BC 0.42
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.08 6-9 >999 360
			Vert(CT) -0.17 6-9 >999 240
			Horz(CT) 0.02 6 n/a n/a
			Wind(LL) 0.02 2-9 >999 240
			PLATES MT20
			GRIP 244/190
			Weight: 121 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size) 6=0-3-8, 2=0-3-8
	Max Horz 2=-166(LC 8)
	Max Uplift 6=-85(LC 11), 2=-85(LC 10)
	Max Grav 6=930(LC 1), 2=930(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1270/363, 3-4=-965/295, 4-5=-965/295, 5-6=-1270/363
BOT CHORD	2-9=-201/1022, 6-9=-201/1003
WEBS	3-9=-360/226, 4-9=-121/663, 5-9=-360/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-7-3, Exterior(2) 6-7-3 to 15-4-13, Interior(1) 15-4-13 to 18-5-11, Exterior(2) 18-5-11 to 22-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	G1GE	GABLE	1	1	63260764
Job Reference (optional)					

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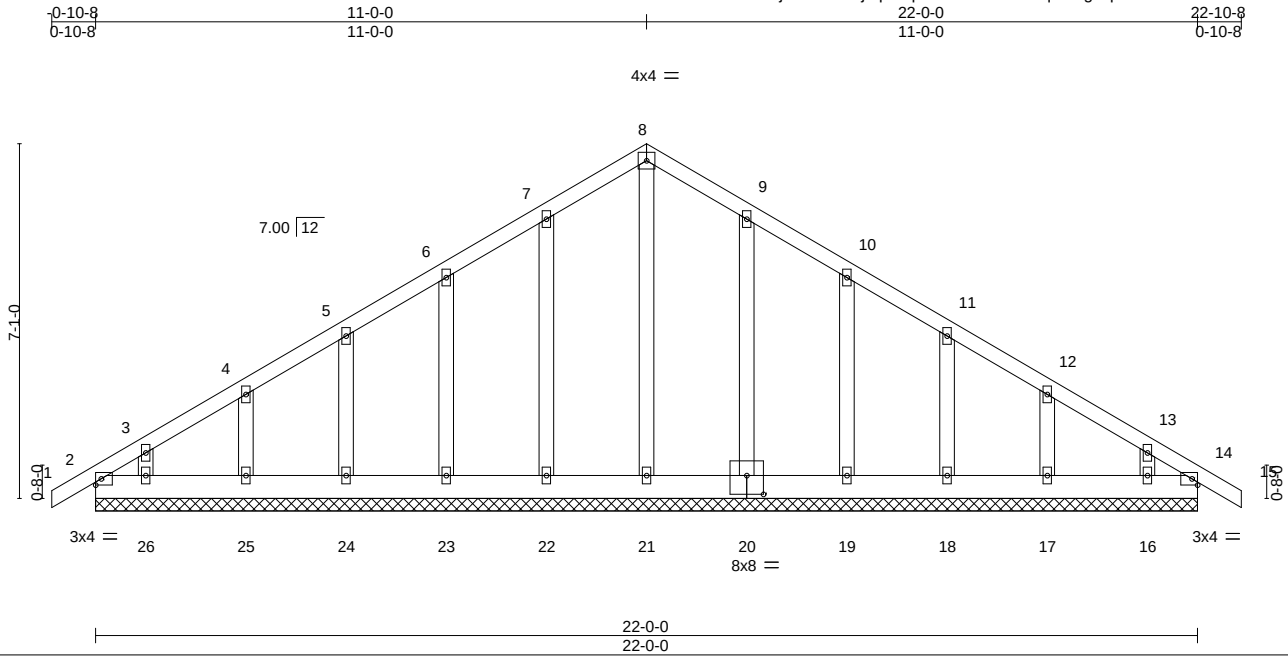


Plate Offsets (X,Y)--		[20:0-4-0,0-4-8]							
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.04	Vert(LL)	-0.00 14	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.02	Vert(CT)	-0.00 15	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.09	Horz(CT)	0.00 14	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-S					Weight: 145 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 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 22-0-0.
(lb) - Max Horz 2=-208(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 22, 23, 24, 25, 20, 19, 18, 17, 16 except 26=-101(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 14, 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-7-3, Corner(3) 6-7-3 to 15-4-13, Exterior(2) 15-4-13 to 18-5-11, Corner(3) 18-5-11 to 22-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2, 22, 23, 24, 25, 20, 19, 18, 17, 16 except (jt=lb) 26=101.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett	I63260765
J0624-3320	G2GR	Common Girder	1	2	Job Reference (optional)	

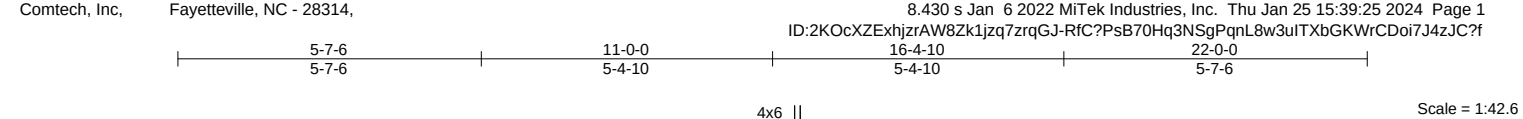


Plate Offsets (X,Y)--		[1:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-7-12,0-1-8], [8:0-5-0,0-7-4], [9:0-7-12,0-1-8]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.10 8-9 >999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.18 8-9 >999	240	M18AHS 186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.03 5 n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06 8-9 >999	240	Weight: 320 lb FT = 20%

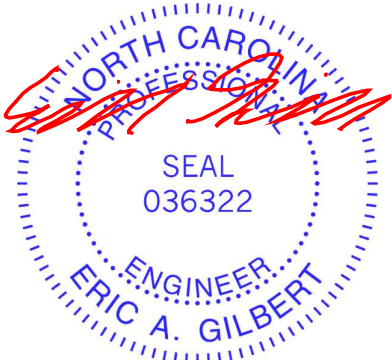
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-3-9 oc purlins.
BOT CHORD	2x10 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=157(LC 24)
Max Uplift 1=-414(LC 8), 5=-186(LC 9)
Max Grav 1=5379(LC 1), 5=2588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-8009/587, 2-3=-4509/365, 3-4=-4511/366, 4-5=-4372/316
BOT CHORD 1-9=-512/6743, 8-9=-512/6743, 6-8=-204/3650, 5-6=-204/3650
WEBS 3-8=-277/4152, 4-8=-417/431, 4-6=-428/130, 2-8=-3471/370, 2-9=-211/3449

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope);
Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=414, 5=186.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 836 lb down and 85 lb up at 1-0-12, 837 lb down and 86 lb up at 3-0-12, 837 lb down and 86 lb up at 5-0-12, and 837 lb down and 86 lb up at 7-0-12, and 2884 lb down and 166 lb up at 8-6-8 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, 3-5=-60, 1-5=-20



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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	G2GR	Common Girder	1	2	I63260765
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 10=-836(B) 11=-837(B) 12=-837(B) 13=-837(B) 14=-2884(B)

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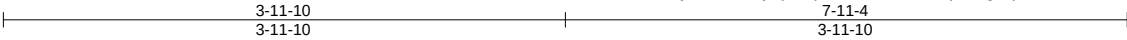
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VB1	VALLEY	1	1	63260766
Job Reference (optional)					

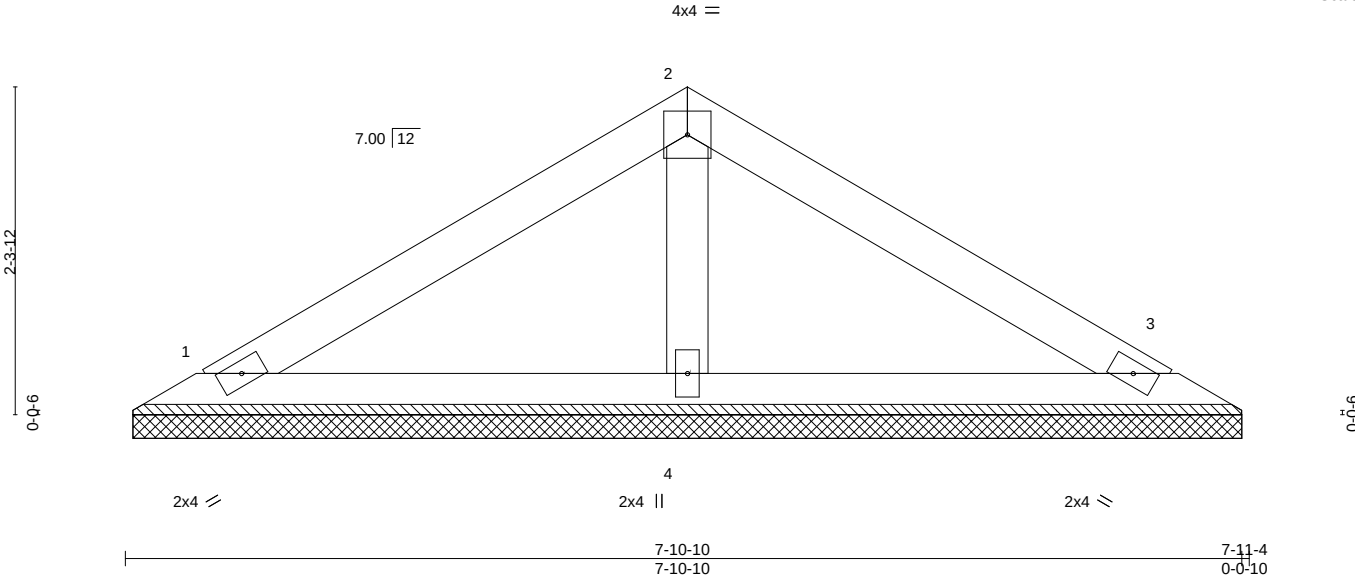
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:26 2024 Page 1

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Scale = 1:16.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
									Weight: 26 lb FT = 20%

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

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

REACTIONS. (size) 1=7-10-0, 3=7-10-0, 4=7-10-0
Max Horz 1=48(LC 9)
Max Uplift 1=25(LC 10), 3=30(LC 11)
Max Grav 1=143(LC 1), 3=143(LC 1), 4=258(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 26,2024

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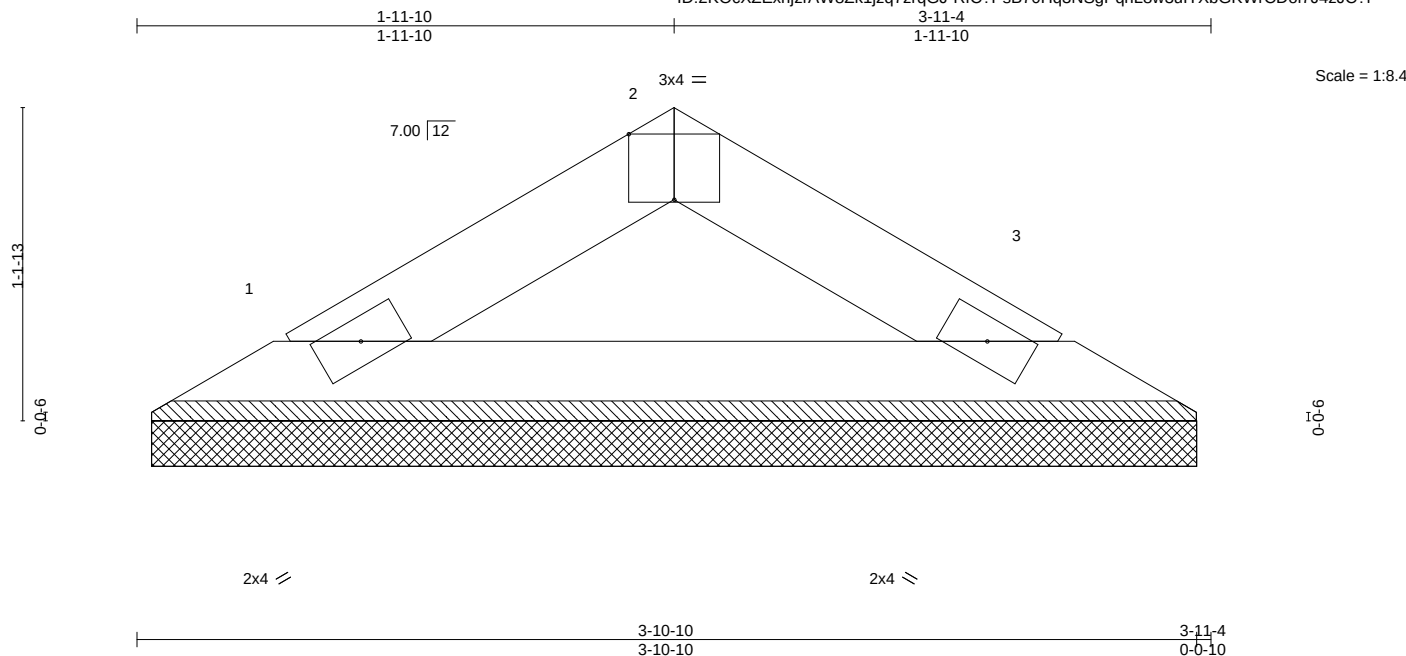


Plate Offsets (X,Y)-- [2:0-2:0,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-10-0, 3=3-10-0
 Max Horz 1=20(LC 7)
 Max Uplift 1=-9(LC 10), 3=-9(LC 11)
 Max Grav 1=113(LC 1), 3=113(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 26, 2024

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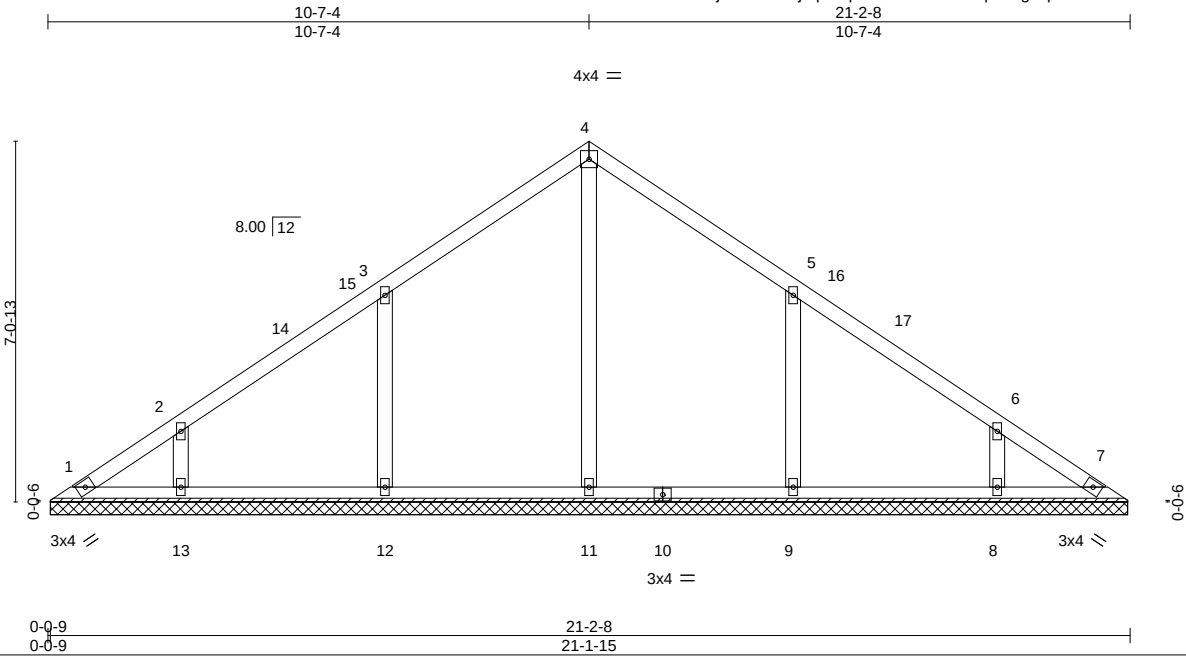


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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VC1	VALLEY	1	1	63260768
Job Reference (optional)					

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Scale = 1:45.2

Plate Offsets (X,Y)--		[5:0-0-0,0-0-0], [6:0-0-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16
TCDL 10.0	Lumber DOL	1.15	BC 0.19
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 7 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 92 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 21-1-6.
(lb) - Max Horz 1=162(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-113(LC 10), 9=-113(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=446(LC 17), 12=461(LC 17), 13=277(LC 17),
9=461(LC 18), 8=277(LC 18)

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

WEBS 3-12=-318/213, 5-9=-318/213

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 6-2-7, Exterior(2) 6-2-7 to 15-0-1, Interior(1) 15-0-1 to 16-3-12, Exterior(2) 16-3-12 to 20-8-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=113, 9=113.
- 7) Non Standard bearing condition. Review required.



January 26,2024

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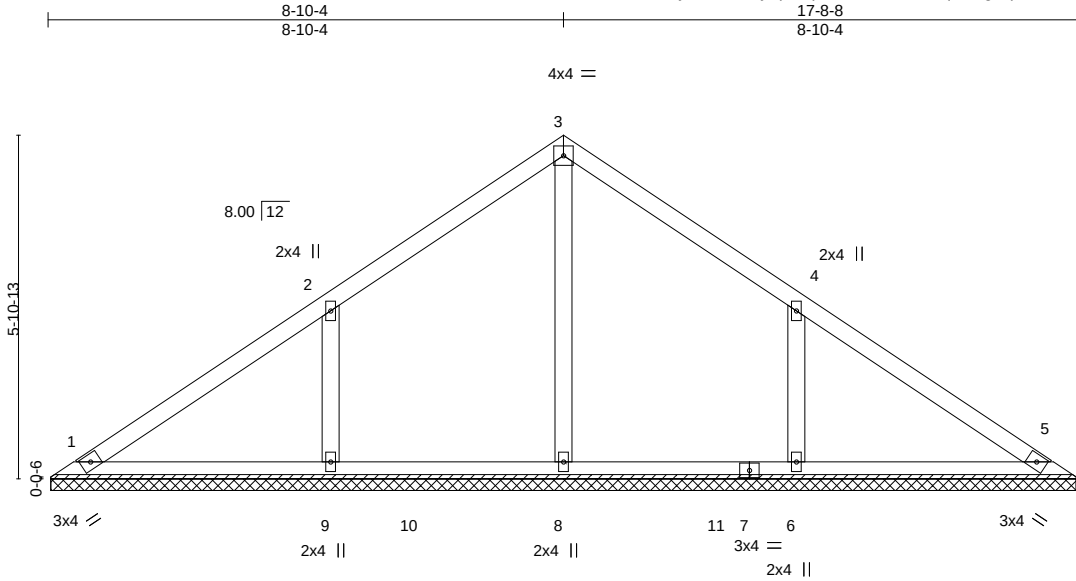
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VC2	VALLEY	1	1	63260769

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:30 2024 Page 1

ID:2KOcXZExhjrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



		0-0-9		17-8-8								
		0-0-9		17-7-15								
Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 72 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

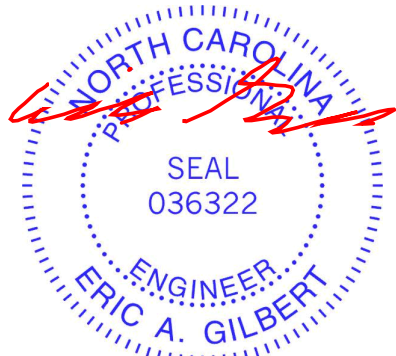
All bearings 17-7-6.
(lb) - Max Horz 1=134(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-130(LC 10), 6=-129(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=402(LC 17), 9=461(LC 17), 6=461(LC 18)

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

WEBS 2-9=-356/249, 4-6=-357/249

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=130, 6=129.
- 6) Non Standard bearing condition. Review required.



January 26,2024

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VC3	VALLEY	1	1	63260770
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:31 2024 Page 1
ID:2KOcXZExhjrAW8Zk1jqz7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

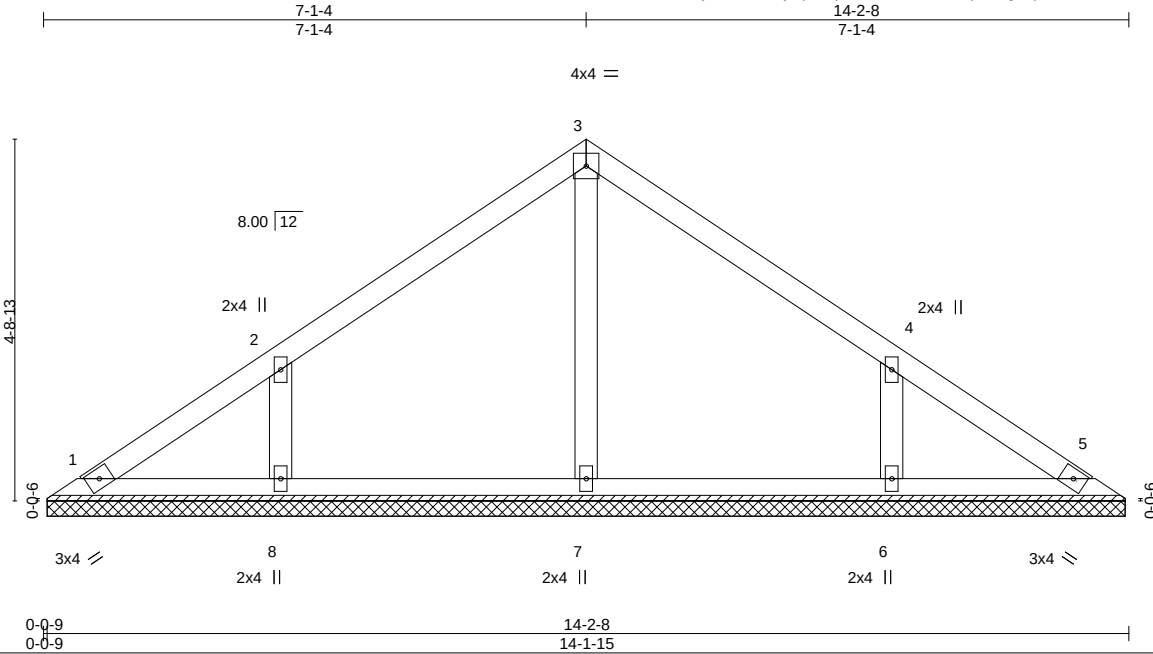


Plate Offsets (X,Y)--		[4:0-0-0,0-0-0]							
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0 *		Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0		Code IRC2015/TPI2014	Matrix-S						
								Weight: 55 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-1-6.
(lb) - Max Horz 1=106(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-105(LC 10), 6=-104(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=260(LC 1), 8=337(LC 17), 6=337(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-289/209, 4-6=-289/209

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=105, 6=104.
- 6) Non Standard bearing condition. Review required.



January 26,2024

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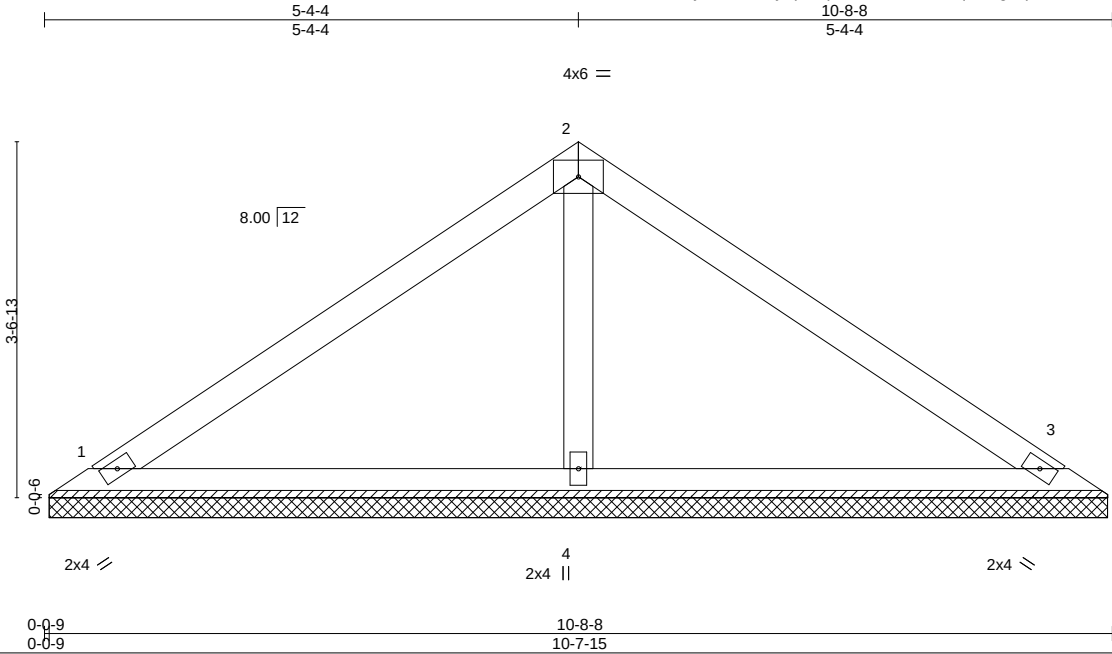
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VC4	VALLEY	1	1	163260771
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:32 2024 Page 1

ID:2KOcXZExhjrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 38 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=10-7-6, 3=10-7-6, 4=10-7-6
Max Horz 1=78(LC 7)
Max Uplift 1=-28(LC 10), 3=-35(LC 11), 4=-5(LC 10)
Max Grav 1=193(LC 1), 3=193(LC 1), 4=392(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) Non Standard bearing condition. Review required.



January 26, 2024

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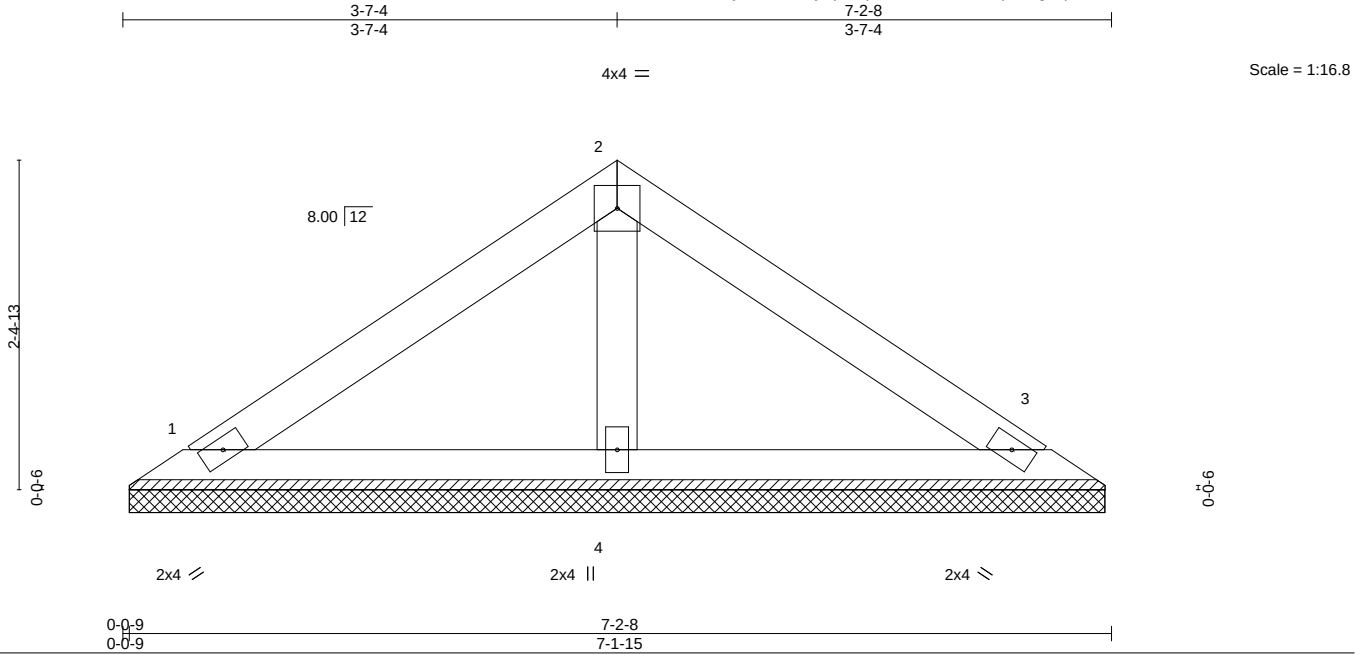
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VC5	VALLEY	1	1	I63260772
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:33 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20
BCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
									Weight: 24 lb FT = 20%

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

REACTIONS. (size) 1=7-1-6, 3=7-1-6, 4=7-1-6
Max Horz 1=50(LC 9)
Max Uplift 1=-24(LC 10), 3=-29(LC 11)
Max Grav 1=135(LC 1), 3=135(LC 1), 4=227(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Non Standard bearing condition. Review required.



January 26, 2024

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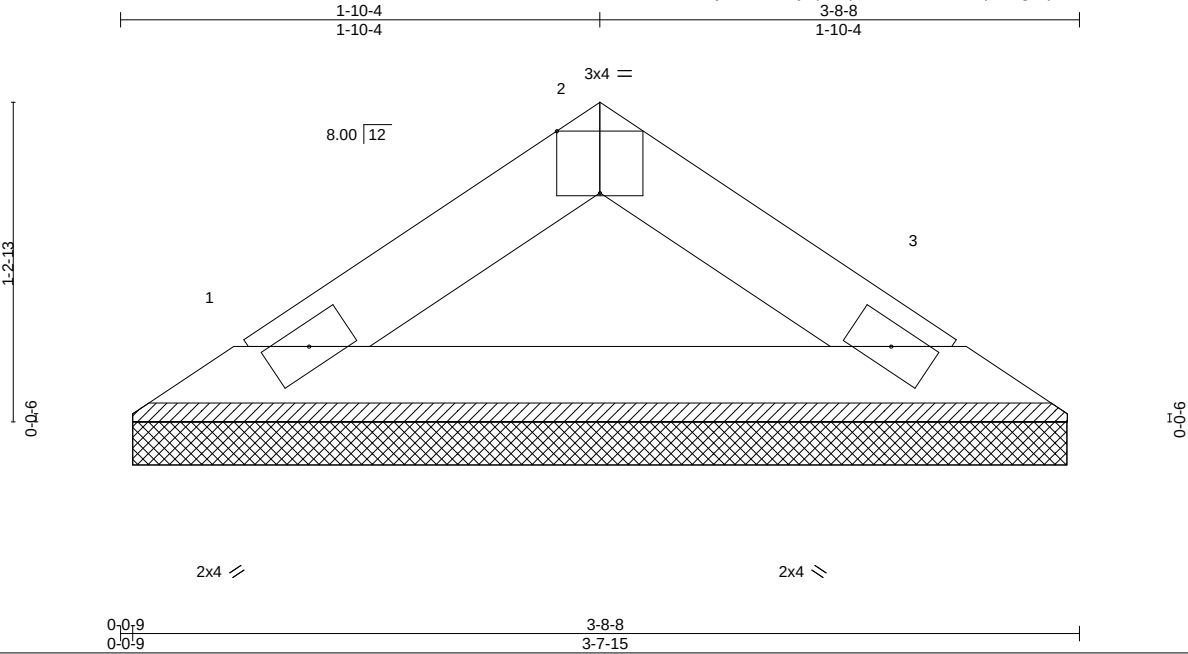
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 12 West Preserve/Harnett
J0624-3320	VC6	VALLEY	1	1	163260773
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:34 2024 Page 1

ID:2KOcXZExhjrAW8Zk1jq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:8.9

Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
			DEFL. in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 10 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-7-6, 3=3-7-6
Max Horz 1=-22(LC 6)
Max Uplift 1=-8(LC 10), 3=-8(LC 11)
Max Grav 1=109(LC 1), 3=109(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



January 26, 2024

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

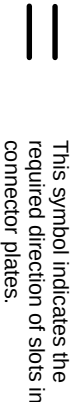
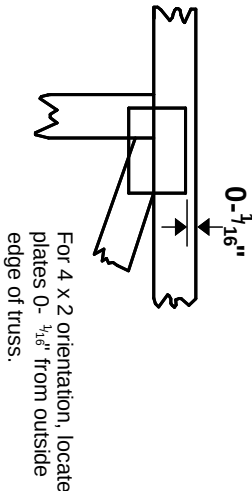
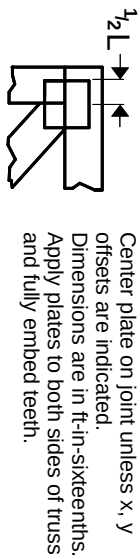
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Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

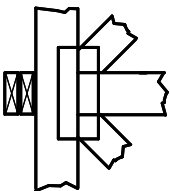
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

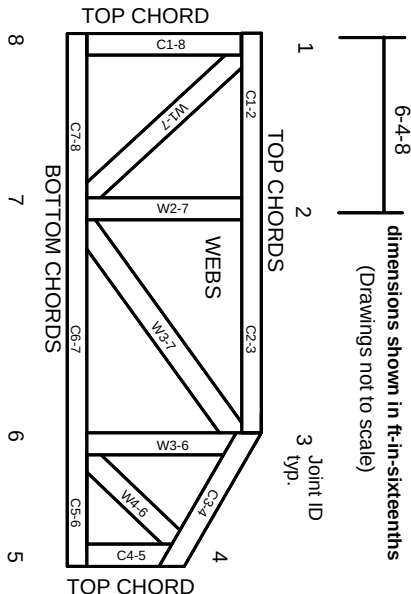


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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