

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0222-0517
Regency Homes/4 Avery Farm/Harnett

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

Pages or sheets covered by this seal: I50106913 thru I50106945

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

North Carolina COA: C-0844



February 7, 2022

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106913
J0222-0517	A1	PIGGYBACK BASE	5	1	Job Reference (optional)	

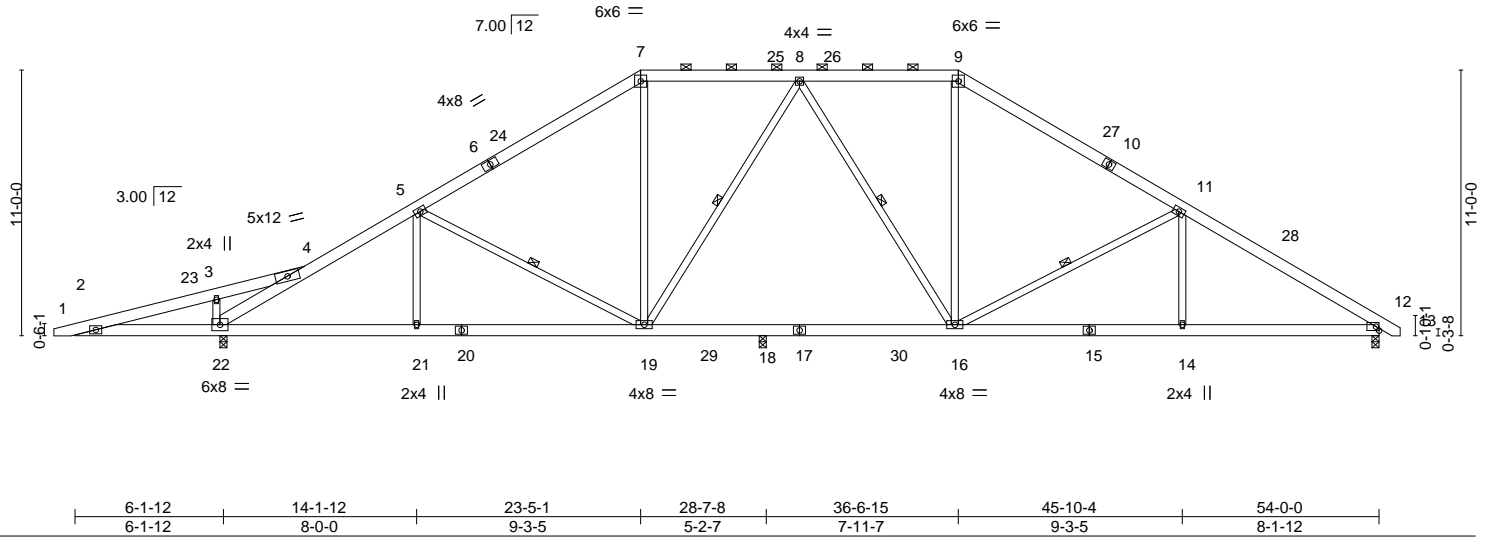
Comtech, Inc. Fayetteville, NC - 28314,

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ID:mHWptvPriWfejLzNULY80lyxYfS-8McAHil7WcLiLA1ICNZCTgIfQQj4YIXr02fXznXPe

0-10-8	6-1-12	9-6-0	14-1-12	23-5-1	30-0-0	36-6-15	45-10-4	54-0-0	54-10-8
0-10-8	6-1-12	3-4-4	4-7-12	9-3-5	6-6-15	6-6-15	9-3-5	8-1-12	0-10-8

Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.13 19-21 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.29 19-21 >928 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 19-21 >999 240	Weight: 391 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except 2-0-0 oc purlins (5-9-15 max.): 4-22, 7-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-19, 8-19, 8-16, 11-16

REACTIONS. (size) 22=0-3-8, 12=0-3-8, 18=0-3-8
 Max Horz 22=255(LC 11)
 Max Uplift 22=-168(LC 12), 12=-116(LC 13)
 Max Grav 22=2292(LC 1), 12=1797(LC 1), 18=602(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-748/770, 3-4=-683/741, 4-22=-3294/1075, 4-5=-2563/522, 5-7=-2084/591, 7-8=-1690/603, 8-9=-1748/609, 9-11=-2170/627, 11-12=-2899/655
 BOT CHORD 2-22=-697/757, 21-22=-289/2121, 19-21=-289/2121, 18-19=-250/1831, 16-18=-250/1831, 14-16=-428/2357, 12-14=-428/2357
 WEBS 5-21=0/356, 5-19=-691/180, 7-19=-37/507, 8-19=-430/218, 8-16=-333/229, 9-16=-81/561, 11-16=-826/271, 11-14=0/398, 3-22=-341/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-9-14, Interior(1) 28-9-14 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=168, 12=116.
 - 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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<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106914
J0222-0517	A1GE	GABLE	1	1	Job Reference (optional)	

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ID:mHVptvPrIWfejLZnULY80lyxYfS-4ljwiOmO2Dc0yfKQQdP1HulqjDEWYWTq13V9kPznXPc

-0-10-8	9-6-0	23-5-1	36-6-15	54-0-0	54-10-8
0-10-8	9-6-0	13-11-1	13-1-14	17-5-1	0-10-8

Scale = 1:97.7

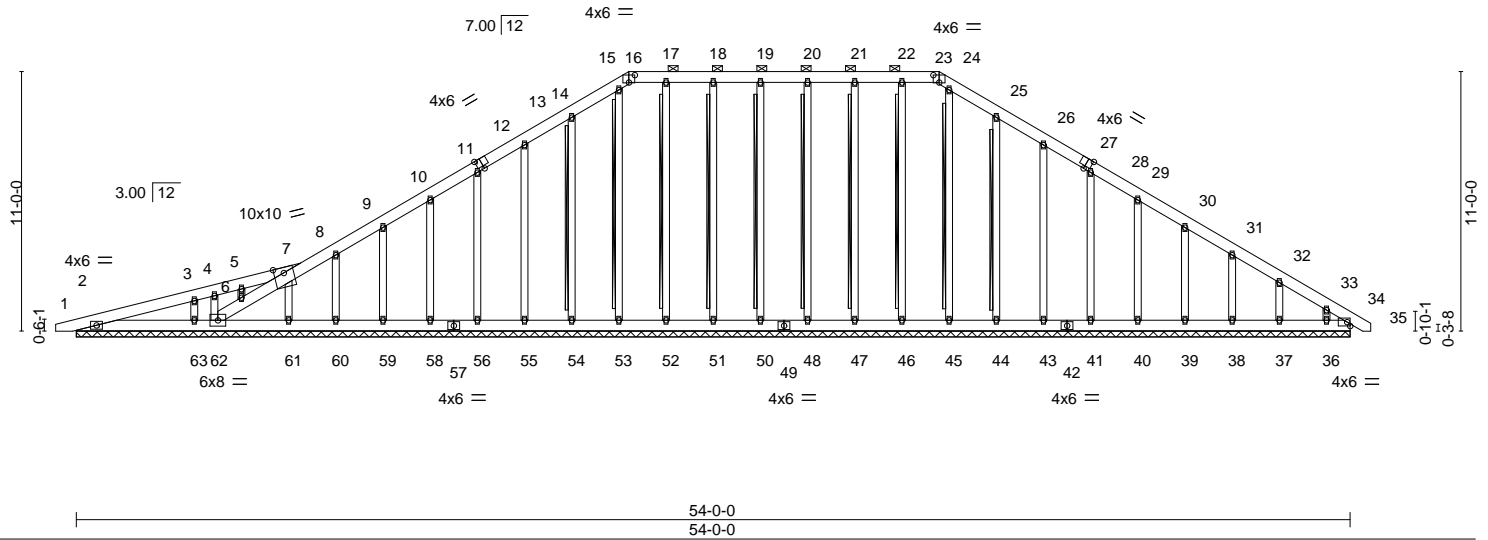


Plate Offsets (X,Y)-- [12:0-2-14,Edge], [16:0-3-0,0-3-12], [23:0-3-0,0-3-12], [27:0-2-14,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00	34	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00	34	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01	34	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 511 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except 2'-0" oc purlins (6'-0" max.): 7-62, 16-23.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing, Except: 6'-0" oc bracing: 2-63,62-63.
 WEBS T-Brace: 2x4 SPF No.2 - 18-51, 17-52, 15-53, 14-54, 19-50, 20-48, 21-47, 22-46, 24-45, 25-44
 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.

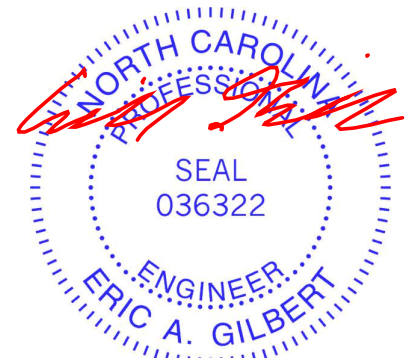
All bearings 54-0-0.
 (lb) - Max Horz 2=326(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 62, 34, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 50, 48, 47, 46, 44, 43, 41, 40, 39, 38, 37 except 63=-136(LC 8), 36=-122(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 62, 34, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 50, 48, 47, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36 except 63=459(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 13-14=-210/269, 14-15=-259/303, 15-16=-239/277, 16-17=-245/290, 17-18=-245/290, 18-19=-245/290, 19-20=-245/290, 20-21=-245/290, 21-22=-245/290, 22-23=-245/290, 23-24=-239/277, 24-25=-259/297, 33-34=-261/183
 WEBS 3-63=-315/369

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-3 to 5-0-0, Exterior(2) 5-0-0 to 23-5-1, Corner(3) 23-5-1 to 29-0-0, Exterior(2) 29-0-0 to 36-6-15, Corner(3) 36-6-15 to 41-11-12, Exterior(2) 41-11-12 to 54-8-8 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 62, 34, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 50, 48, 47, 46, 44, 43, 41, 40, 39, 38, 37 except (it=lb) 63=136, 36=122.



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Continued on page 2

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106914
J0222-0517	A1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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 ID:mHVptvPrIWfejLZnULY80IyxYfS-4IjwiOmO2Dc0yfKQQdP1HulqIDEWYWTqI3V9kPznXPc

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106916
J0222-0517	A2X	ROOF TRUSS	0	1	Job Reference (optional)	

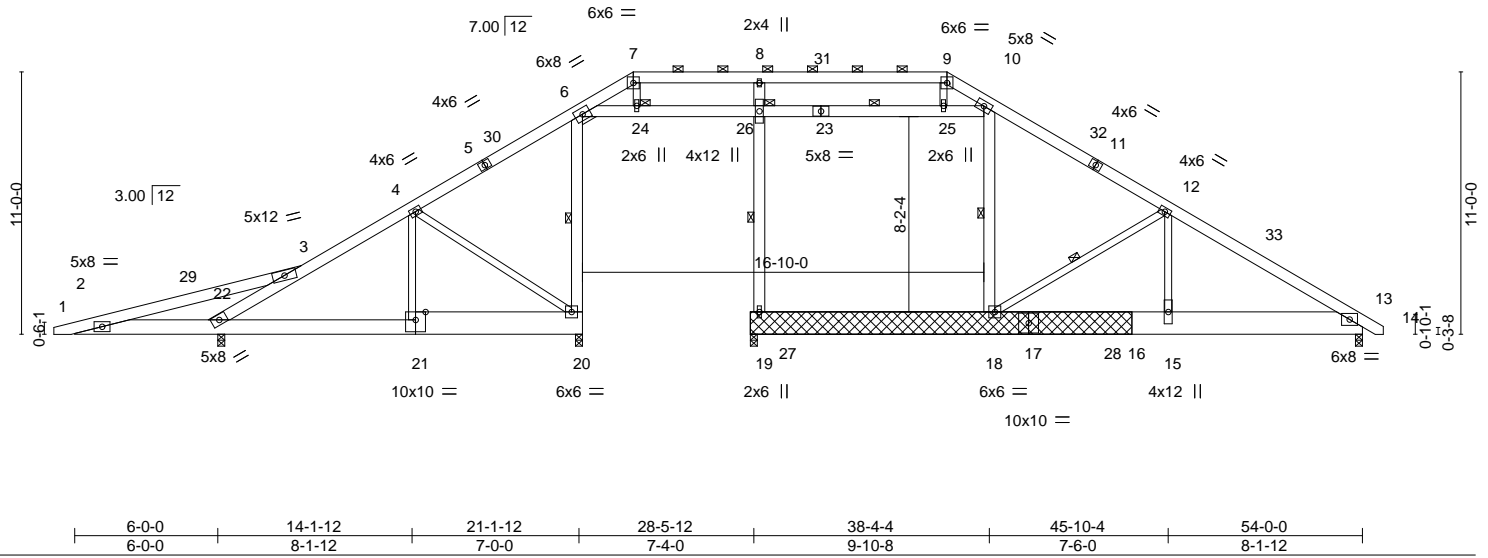
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ID:mHVptvPrIWfjLZnULY80lyxYfS-UKP3KPPGK8_bp62_5lykvXNC6R5YlmmG_0kplkznXPZ

0-7-10-8	9-6-0	14-1-12	23-5-1	28-5-12	36-6-15	45-10-4	54-0-0	54-10-8
0-10-8	9-6-0	4-7-12	9-3-5	5-0-11	8-1-3	9-3-5	8-1-12	0-10-8

Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.26	18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.57	15-18	>531	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.32	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	15-18	>999	240		
							Weight: 648 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-7 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 3-22, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 20-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.
WEBS 2x4 SP No.2 *Except* 6-20,10-18,10-23,6-23,8-26,19-26: 2x6 SP No.1	WEBS 1 Row at midpt 12-18, 6-20, 10-18, 10-26, 19-26
OTHERS 2x12 SP No.1	JOINTS 1 Brace at Jt(s): 24, 26
LBR SCAB 16-19 2x12 SP No.1 both sides	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 20=-162(LC 9), 22=-310(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 20=714(LC 20), 19=2349(LC 27), 22=1202(LC 24), 13=1201(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-857/1080, 3-22=-1527/974, 3-4=-654/263, 4-6=-330/340, 6-7=-23/447, 7-8=0/427, 8-9=0/427, 9-10=0/434, 10-12=-366/372, 12-13=-1945/282
 BOT CHORD 2-22=-985/890, 21-22=-104/419, 20-21=-101/423, 15-18=-107/1550, 13-15=-107/1550
 WEBS 4-20=-522/125, 12-18=-1846/127, 12-15=0/1385, 6-20=-419/155, 4-21=0/265, 10-18=-509/0, 6-24=-580/291, 24-26=-586/291, 25-26=-586/291, 10-25=-558/294, 8-26=-636/229, 19-26=-1109/22

- NOTES-**
- Attached 16-0-0 scab 16 to 19, both face(s) 2x12 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-4-8 from end at joint 19, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 14-0-0 from end at joint 19, nail 3 row(s) at 4" o.c. for 2-0-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).10-18, 19-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 20=162, 22=310.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



February 7, 2022

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ENGINEERING BY
TRENCO
 A MITTEK AFFILIATE

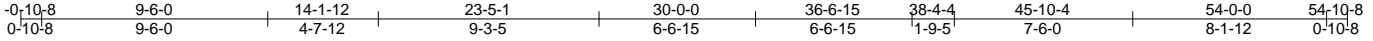
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106917
J0222-0517	A3	ROOF TRUSS	3	1	Job Reference (optional)	

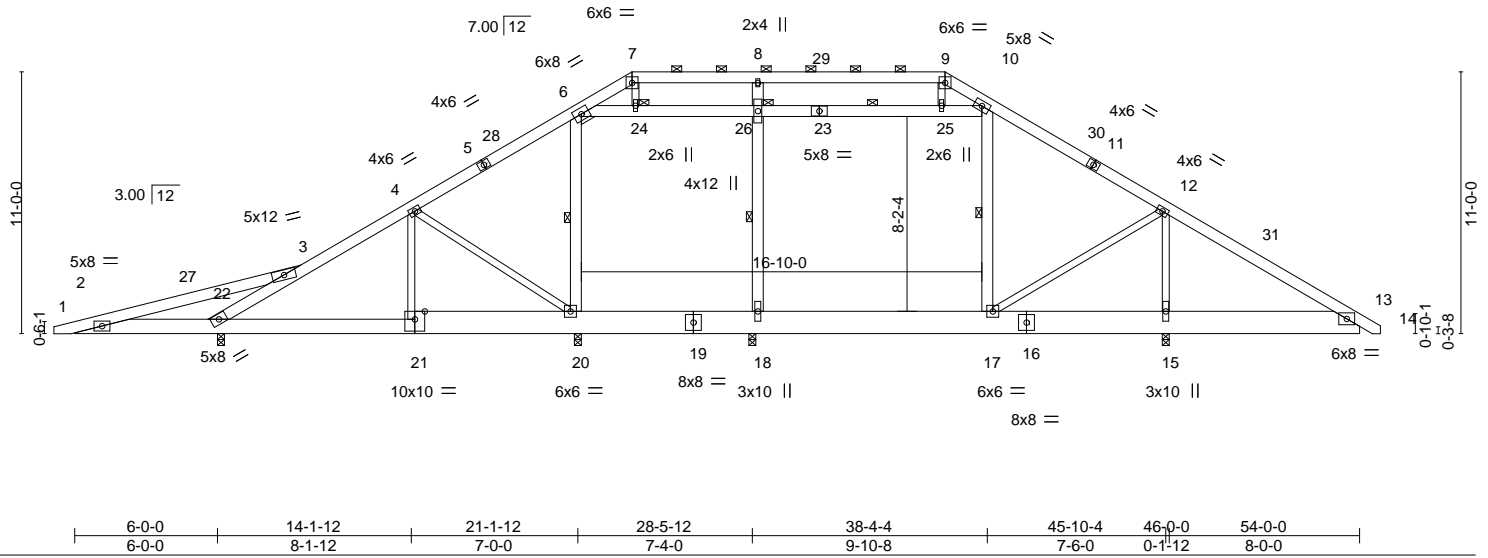
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ID:mHVpTvPrIFwfejLznULY80lyxYfS-yWzRYIpu5S6RQGdBftUzSkvQqQs?UE3QDgTMTAzNXPY



Scale: 1/8"=1'



6-0-0 6-0-0	14-1-12 8-1-12	21-1-12 7-0-0	28-5-12 7-4-0	38-4-4 9-10-8	45-10-4 7-6-0	46-0-0 0-1-12	54-0-0 8-0-0
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	2-0-0	TC 0.41	Vert(LL) -0.03	17-18	>999	360	GRIP
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT) -0.07	17-18	>999	240	MT20
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Horz(CT) 0.01	15	n/a	n/a	
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) -0.02	21-22	>999	240	
	Code IRC2015/TPI2014						Weight: 529 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 2-0-0 oc purlins (6-0-0 max.): 3-22, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 19-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-20,10-17,10-23,6-23,8-26,18-26: 2x6 SP No.1	WEBS 1 Row at midpt 6-20, 10-17, 10-26, 18-26
	JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 20 except 22=172(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 20=984(LC 20), 15=1902(LC 21), 18=1796(LC 27), 22=1408(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=880/1057, 3-22=-1889/537, 3-4=-1033/0, 4-6=-811/20, 6-7=-493/15, 7-8=-362/4, 8-9=-362/4, 9-10=-477/19, 10-12=-793/0, 12-13=-469/617
 BOT CHORD 2-22=-963/912, 21-22=0/905, 20-21=0/908, 18-20=0/610, 17-18=0/610, 15-17=-439/506, 13-15=-439/506
 WEBS 4-20=-490/154, 12-17=-12/1079, 12-15=-1594/335, 6-20=-435/302, 10-17=-486/202, 6-24=-367/79, 24-26=-357/83, 25-26=-357/83, 10-25=-374/79, 8-26=-489/249, 18-26=-737/73

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).6-20, 10-17, 18-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 22=172.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106918
J0222-0517	A3X	ROOF TRUSS	0	1	Job Reference (optional)	

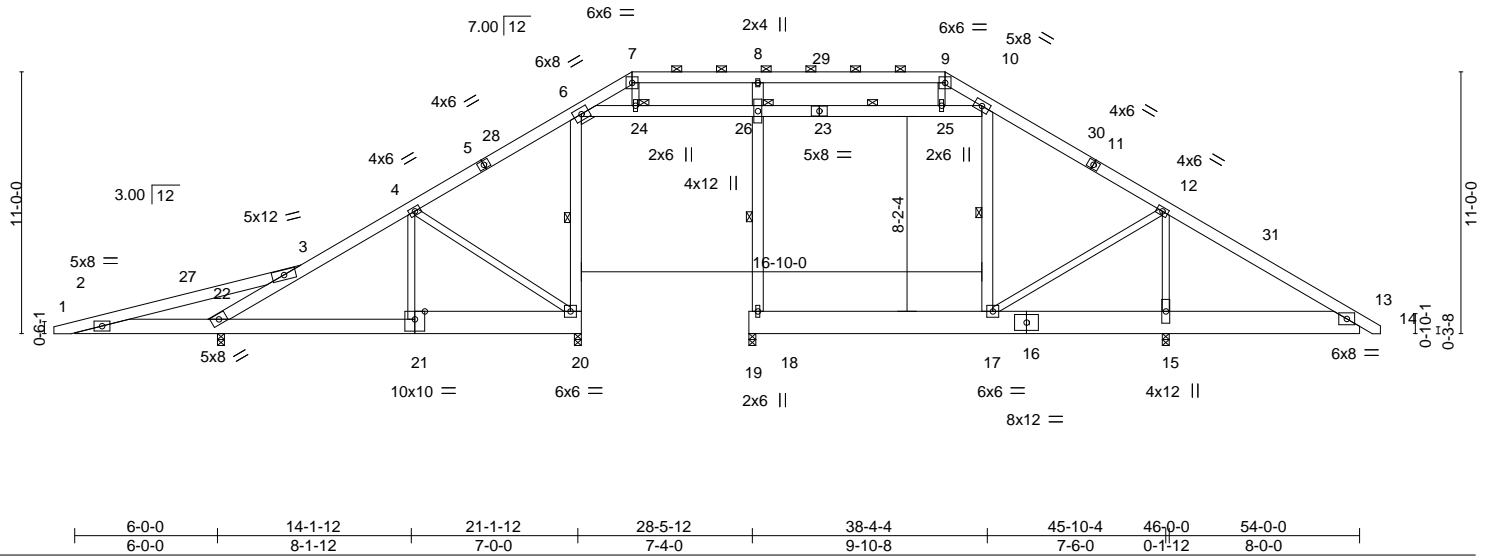
Comtech, Inc. Fayetteville, NC - 28314,

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ID:mHVpTvPrIWfjLZnULY80lyxYfS-RiXpI5qWslEI2QCNCa?C_ySbYEorDbxZSKDwPdznXPX

0-10-8	9-6-0	14-1-12	23-5-1	30-0-0	36-6-15	45-10-4	54-0-0	54-10-8
0-10-8	9-6-0	4-7-12	9-3-5	6-6-15	6-6-15	9-3-5	8-1-12	0-10-8

Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(LL) -0.21 17-18 >982 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.42 17-18 >493 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.48 18 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.09 17 >999 240		
				Weight: 495 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 2-0-0 oc purlins (6-0-0 max.): 3-22, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 20-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-20,10-17,10-23,6-23,8-26,18-26: 2x6 SP No.1	WEBS 1 Row at midpt 6-20, 10-17, 10-26, 18-26
	JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 20=148(LC 9), 15=145(LC 13), 22=-309(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 20=782(LC 20), 15=1672(LC 25), 18=1737(LC 23), 22=1203(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-857/1078, 3-22=-1527/972, 3-4=-655/261, 4-6=-329/339, 6-7=-190/383, 7-8=-118/342, 8-9=-119/342, 9-10=-178/421, 10-12=-365/358, 12-13=-560/541
 BOT CHORD 2-22=-983/890, 21-22=-103/421, 20-21=-100/425, 15-17=-403/588, 13-15=-403/588
 WEBS 4-20=-528/124, 12-17=-700/480, 12-15=-1085/1002, 6-20=-463/156, 4-21=0/264, 10-17=-583/57, 6-24=-285/181, 24-26=-280/177, 25-26=-280/177, 10-25=-274/204, 8-26=-561/176, 18-26=-946/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and right exposed ;C:C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).10-17, 18-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 20, 145 lb uplift at joint 15 and 309 lb uplift at joint 22.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



February 7, 2022

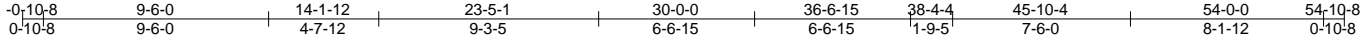
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106919
J0222-0517	A4	ROOF TRUSS	3	1	Job Reference (optional)	

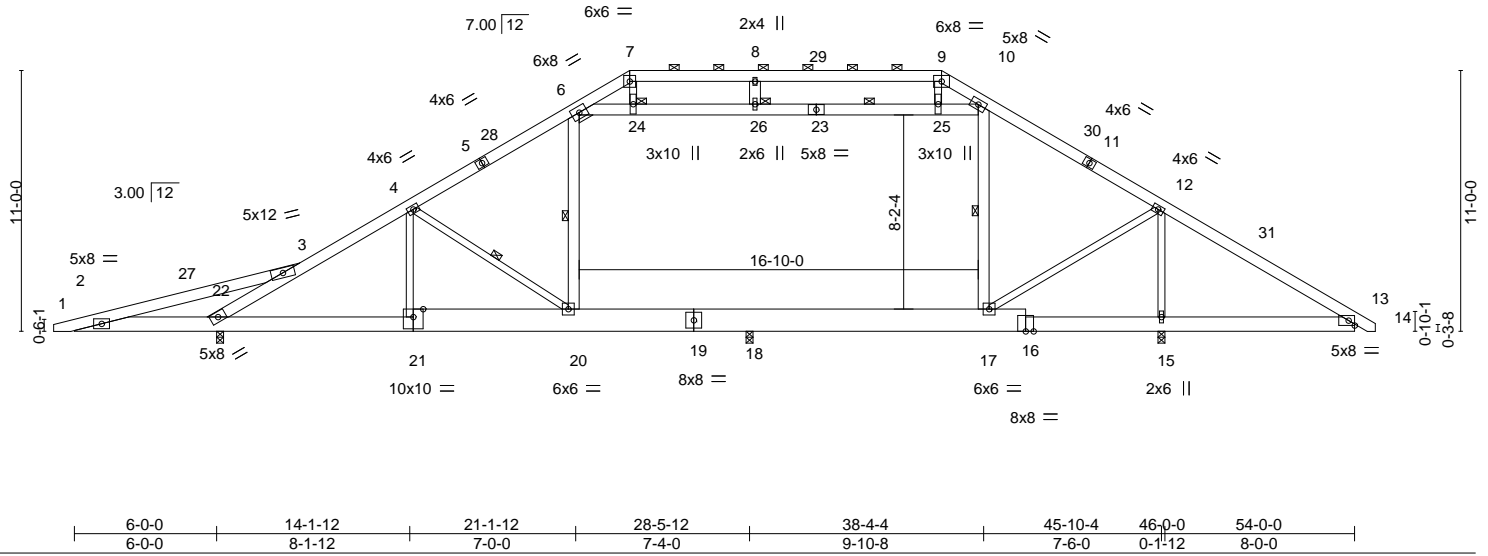
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:09 2022 Page 1

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Scale = 1:97.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	Vert(LL) -0.24	20-21	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(CT) -0.50	20-21	>543	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Horz(CT) 0.02	15	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.21	20-21	>999	240		
	Code IRC2015/TPI2014						Weight: 486 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1 *Except*
 16-19,19-21: 2x12 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-20,10-17,10-23,6-23,8-26: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except 2-0-0 oc purlins (5-8-1 max.): 3-22, 7-9.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 4-20, 6-20, 10-17, 10-26
 JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS.

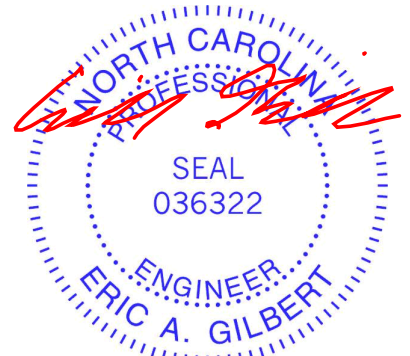
(size) 15=0-3-8, 22=0-3-8, 18=0-3-8
 Max Horz 22=255(LC 11)
 Max Uplift 22=-76(LC 8)
 Max Grav 15=2117(LC 25), 22=1831(LC 1), 18=2021(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-877/1037, 3-22=-2743/654, 3-4=-1770/0, 4-6=-1081/12, 6-7=-1587/296,
 7-8=-1386/254, 8-9=-1386/254, 9-10=-1586/289, 10-12=-1048/0, 12-13=-483/718
 BOT CHORD 2-22=-943/910, 21-22=0/1629, 20-21=0/1643, 18-20=0/856, 17-18=0/856,
 15-17=-504/504, 13-15=-504/500
 WEBS 4-20=-1072/189, 12-17=-63/1483, 12-15=-1962/409, 6-20=-599/357, 4-21=0/722,
 10-17=-648/250, 6-24=-311/684, 24-26=-311/730, 25-26=-311/730, 10-25=-322/645,
 7-24=-69/515, 9-25=-2/466

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).6-20, 10-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 22.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 7, 2022

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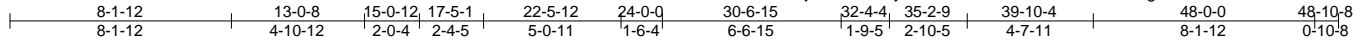
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106920
J0222-0517	A5	ROOF TRUSS	1	1	Job Reference (optional)	

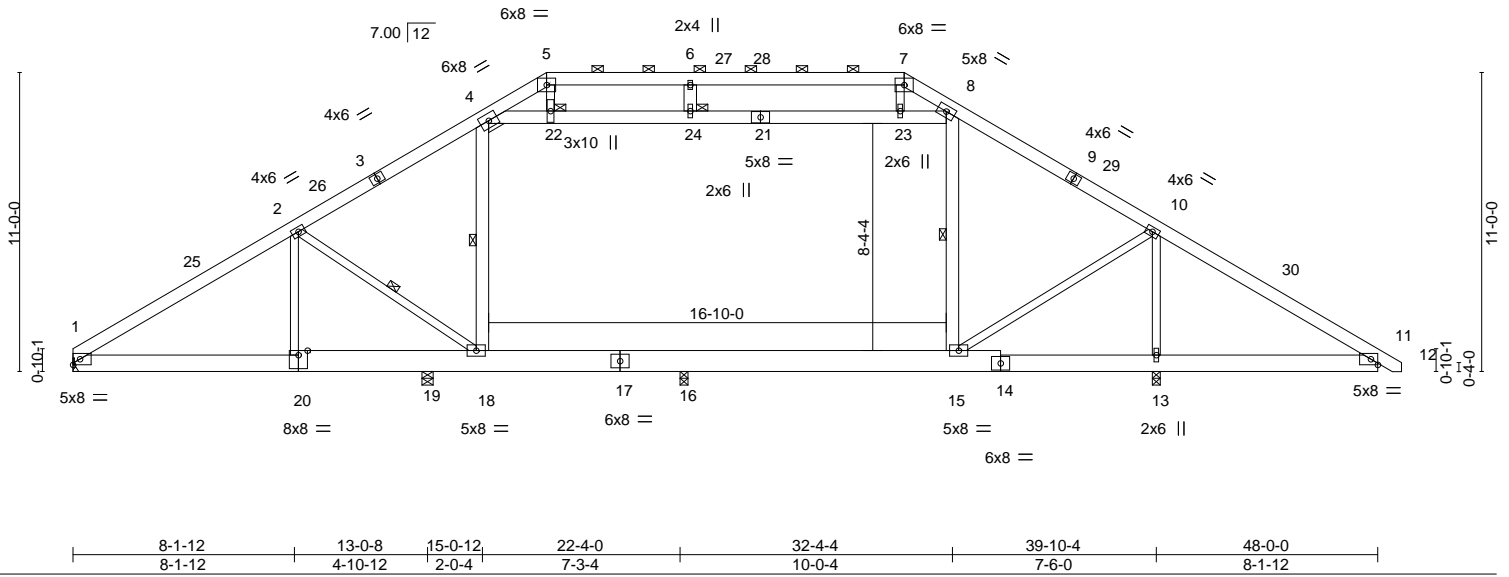
Comtech, Inc., Fayetteville, NC - 28314,

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ID:mHVptvPriWfejLZnULY80lyxYfS-N5eZAnsnONU0HkMmKb1g3NXwP2WehXHsveiOUVznXPV



Scale = 1:84.8



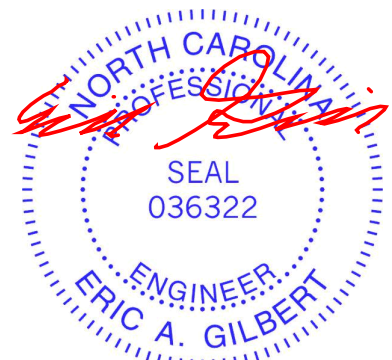
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.06 15-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Vert(CT) -0.09 15-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 1-20 >999 240		
				Weight: 421 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except 2-0-0 oc purlins (5-6-15 max.): 5-7.
BOT CHORD 2x8 SP No.1 *Except* 14-17,17-20: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15,11-13.
WEBS 2x4 SP No.2 *Except* 8-15,8-21,4-18,6-24,4-21: 2x6 SP No.1	WEBS 1 Row at midpt 2-18, 8-15, 4-18
	JOINTS 1 Brace at Jt(s): 22, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical, 19=0-4-15.
 (lb) - Max Horz 1=-253(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 19=-104(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 1=916(LC 21), 13=2194(LC 27), 19=1137(LC 20), 16=1344(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1396/0, 2-4=-1115/40, 4-5=-1661/339, 5-6=-1420/296, 6-7=-1420/296,
 7-8=-1570/321, 8-10=-1078/0, 10-11=-472/683
 BOT CHORD 1-20=0/1064, 19-20=0/1063, 18-19=0/1061, 16-18=0/857, 15-16=0/857, 13-15=-473/492,
 11-13=-473/488
 WEBS 2-18=-461/199, 10-13=-2003/405, 8-15=-583/242, 10-15=-50/1464, 4-22=-322/734,
 22-24=-322/785, 23-24=-322/785, 8-23=-336/717, 5-22=-90/576, 7-23=-3/369,
 4-18=-629/356

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (10.0 psf) on member(s). 4-22, 22-24, 23-24, 8-23; Wall dead load (5.0psf) on member(s).8-15, 4-18
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18, 15-16
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 19.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.



February 7, 2022

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ENGINEERING BY
TRENCO
 A MITTEK AFFILIATE

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106922
J0222-0517	A7	ROOF TRUSS	1	1	Job Reference (optional)	

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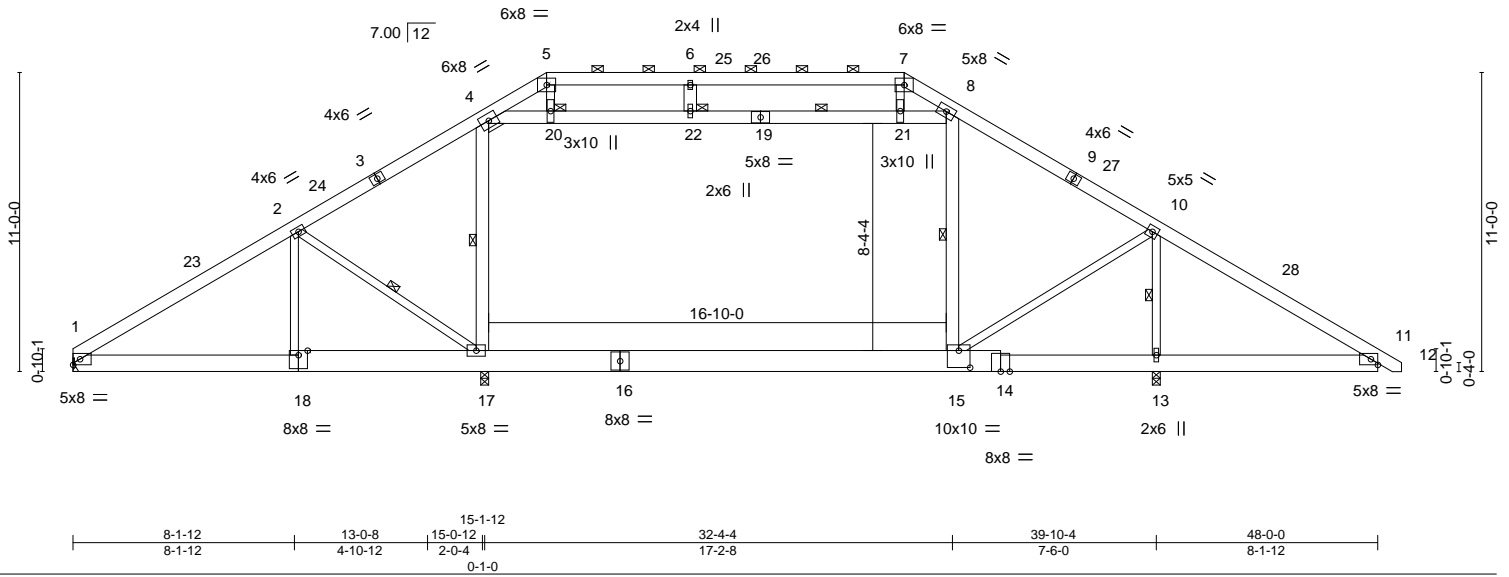


Plate Offsets (X,Y)-- [15:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.40	15-17	>736	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.61	15-17	>484	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.02	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	15-17	>999	240		
							Weight: 421 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1 *Except*
 14-16: 2x10 SP No.1, 16-18: 2x10 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except
 2-0-0 oc purlins (5-6-4 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 2-17, 10-13, 8-15, 8-22, 4-17
 JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS.

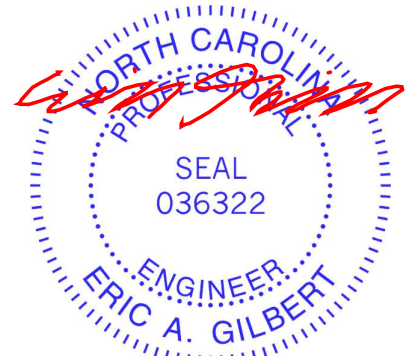
(size) 1=Mechanical, 17=0-3-8, 13=0-3-8
 Max Horz 1=253(LC 10)
 Max Grav 1=1099(LC 21), 17=1740(LC 20), 13=2590(LC 27)

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

TOP CHORD 1-2=-1685/0, 2-4=-1639/0, 4-5=-1685/325, 5-6=-1450/280, 6-7=-1450/280,
 7-8=-1602/303, 8-10=-1602/0, 10-11=-459/708
 BOT CHORD 1-18=0/1385, 17-18=0/1380, 15-17=0/1305, 13-15=-492/483, 11-13=-492/477
 WEBS 2-18=-357/174, 2-17=-496/336, 10-13=-2637/273, 8-15=-456/297, 10-15=0/2060,
 4-20=-416/572, 20-22=-408/624, 21-22=-408/624, 8-21=-447/556, 5-20=-90/589,
 7-21=0/400, 4-17=-532/411

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s).8-15, 4-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
- Refer to girder(s) for truss to truss connections.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 7, 2022

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106923
J0222-0517	A8	ROOF TRUSS	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:mHVPtvPrIWFfejLZnULY80lyxYfs-Fsu408vHSb_SmLgXZR6cEDic6fo6dLnSqGgEdGznXPR



Scale = 1:84.3

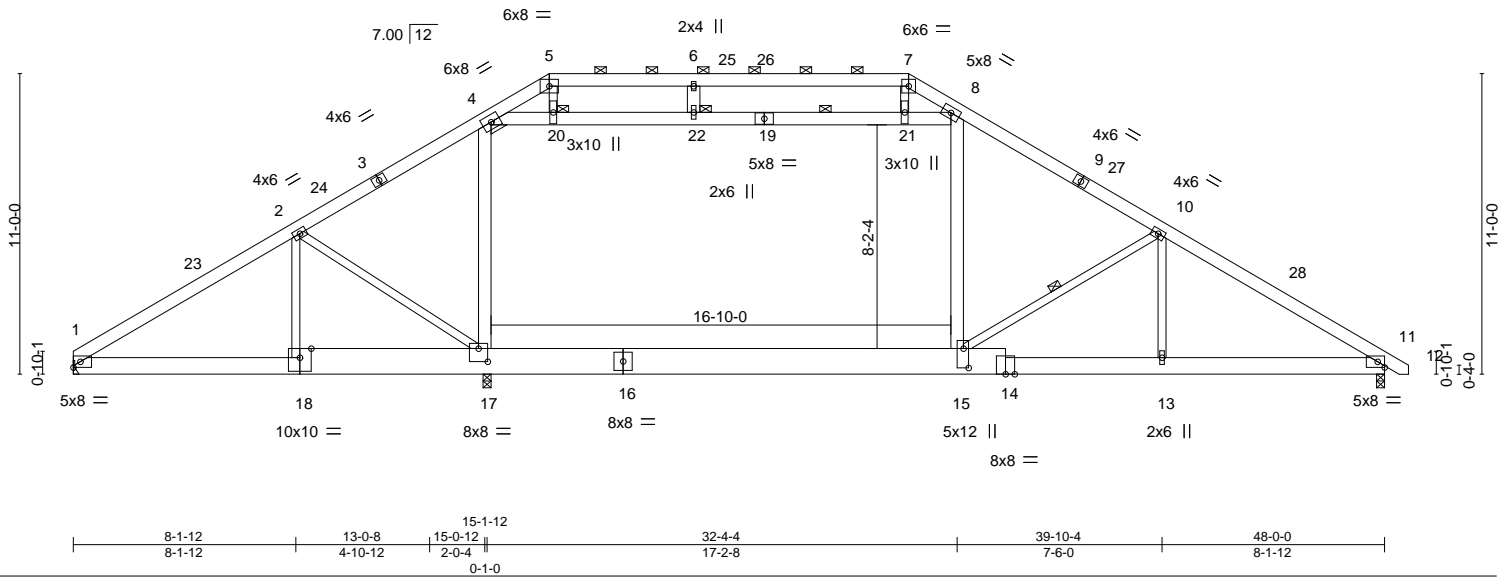


Plate Offsets (X,Y)-- [15:0-8-8,0-2-4], [17:0-4-0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.31	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.55	15-17	>714	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.09	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	15	>999	240		
							Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins (5-1-4 max.); 5-7.
BOT CHORD 2x8 SP No.1 *Except* 14-16: 2x12 SP No.1, 16-18: 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1	WEBS 1 Row at midpt 10-15, 8-22
	JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS. (size) 1=Mechanical, 17=0-3-8, 11=0-3-8
 Max Horz 1=253(LC 10)
 Max Uplift 17=145(LC 9)
 Max Grav 1=2123(LC 21), 17=977(LC 26), 11=2512(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3664/207, 2-4=-3801/124, 4-5=-1898/356, 5-6=-1681/314, 6-7=-1680/314,
 7-8=-1875/344, 8-10=-3757/110, 10-11=-4167/181
 BOT CHORD 1-18=-42/2962, 17-18=-41/2956, 15-17=0/3121, 13-15=-40/3425, 11-13=-40/3422
 WEBS 2-18=-486/63, 2-17=-261/475, 10-13=-59/304, 8-15=0/1121, 10-15=-626/293,
 4-20=-1863/0, 20-22=-1818/0, 21-22=-1818/0, 8-21=-1923/0, 5-20=-96/640,
 7-21=-21/584, 4-17=0/1091

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s).8-15, 4-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 17.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



February 7, 2022

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106924
J0222-0517	A9	ROOF TRUSS	3	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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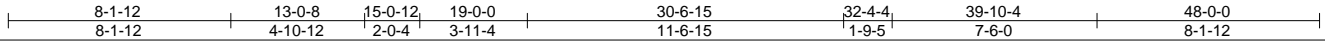
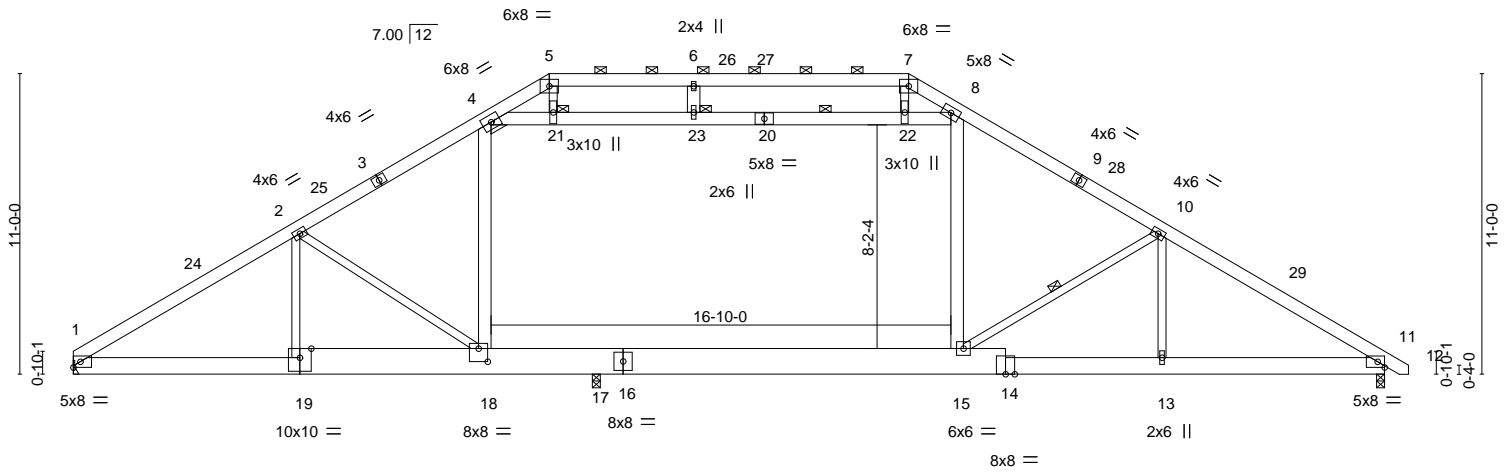


Plate Offsets (X,Y)-- [18:0-4-0,0-5-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.30	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.54	15-17	>642	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.08	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.13	15	>999	240		
							Weight: 442 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1 *Except*
 14-16,16-19: 2x12 SP No.1
 WEBS 2x4 SP No.2 *Except*
 8-15,8-20,4-18,6-23,4-20: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except
 2-0-0 oc purlins (5-1-12 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
 WEBS 1 Row at midpt 10-15, 8-23
 JOINTS 1 Brace at Jt(s): 21, 23

REACTIONS.

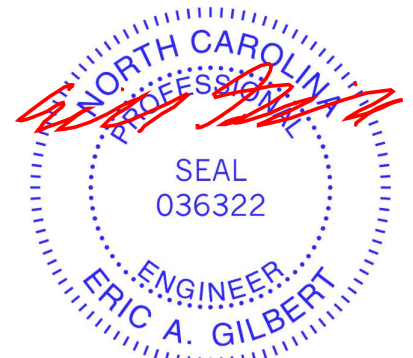
(size) 1=Mechanical, 17=0-3-8, 11=0-3-8
 Max Horz 1=253(LC 8)
 Max Uplift 17=29(LC 9)
 Max Grav 1=1956(LC 2), 17=1300(LC 20), 11=2314(LC 21)

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

TOP CHORD 1-2=-3329/277, 2-4=-3273/211, 4-5=-1867/363, 5-6=-1647/325, 6-7=-1647/325,
 7-8=-1825/360, 8-10=-3252/193, 10-11=-3853/231
 BOT CHORD 1-19=-101/2739, 18-19=-99/2739, 17-18=0/2685, 15-17=0/2685, 13-15=-82/3157,
 11-13=-82/3157
 WEBS 2-19=-259/231, 2-18=-559/343, 10-13=0/382, 8-15=0/862, 10-15=-719/256,
 4-21=-1490/14, 21-23=-1444/20, 22-23=-1444/20, 8-22=-1531/12, 5-21=-88/654,
 7-22=-37/520, 4-18=-40/812

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-21, 21-23, 22-23, 8-22; Wall dead load (5.0psf) on member(s). 8-15, 4-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 17.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 7, 2022

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106925
J0222-0517	A9GE	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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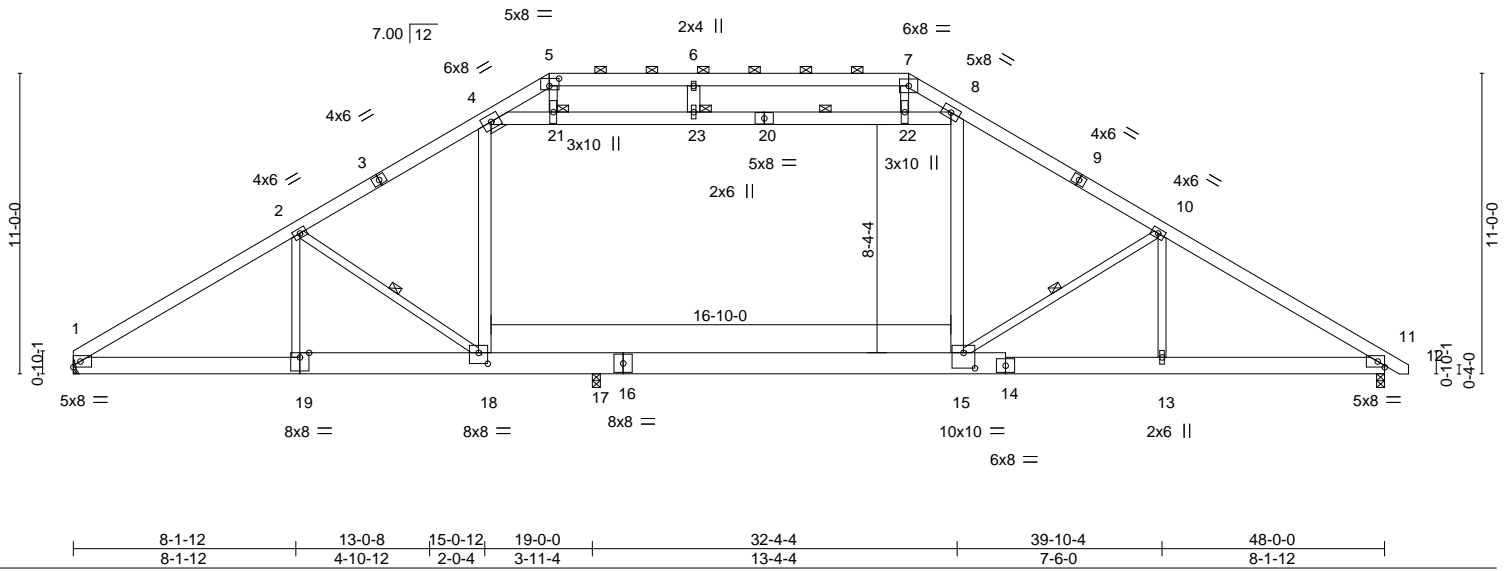


Plate Offsets (X,Y)-- [5:0-4-4,0-3-4], [15:0-5-0,0-6-12], [18:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.37	15-17	>926	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.63	15-17	>545	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.08	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.18	15	>999	240		
							Weight: 421 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1 *Except*
 14-16,16-19: 2x10 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 8-15,8-20,4-18,6-23,4-20: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except 2-0-0 oc purlins (5-1-8 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 8-23
 JOINTS 1 Brace at Jt(s): 21, 23

REACTIONS.

(size) 1=Mechanical, 17=0-3-8, 11=0-3-8
 Max Horz 1=-316(LC 10)
 Max Uplift 1=-55(LC 13), 17=-140(LC 9), 11=-190(LC 13)
 Max Grav 1=2034(LC 2), 17=1210(LC 20), 11=2332(LC 21)

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

TOP CHORD 1-2=-3439/405, 2-4=-3317/300, 4-5=-1881/435, 5-6=-1659/395, 6-7=-1658/395,
 7-8=-1833/441, 8-10=-3340/310, 10-11=-3867/380
 BOT CHORD 1-19=-215/2831, 18-19=-214/2829, 17-18=0/2781, 15-17=0/2781, 13-15=-189/3179,
 11-13=-189/3179
 WEBS 2-19=-263/240, 2-18=-563/548, 10-13=0/370, 8-15=0/955, 10-15=-699/372,
 4-21=-1688/212, 21-23=-1645/214, 22-23=-1645/214, 8-22=-1724/214, 5-21=-109/666,
 7-22=-49/525, 4-18=-96/905

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-4 to 4-10-14, Exterior(2) 4-10-14 to 17-5-1, Corner(3) 17-5-1 to 22-2-11, Exterior(2) 22-2-11 to 30-6-15, Corner(3) 30-6-15 to 35-4-9, Exterior(2) 35-4-9 to 48-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-21, 21-23, 22-23, 8-22; Wall dead load (5.0psf) on member(s). 8-15, 4-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 1, 140 lb uplift at joint 17 and 190 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 7, 2022

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

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

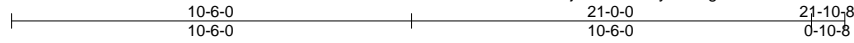


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106927
J0222-0517	B1GE	GABLE	1	1	Job Reference (optional)	

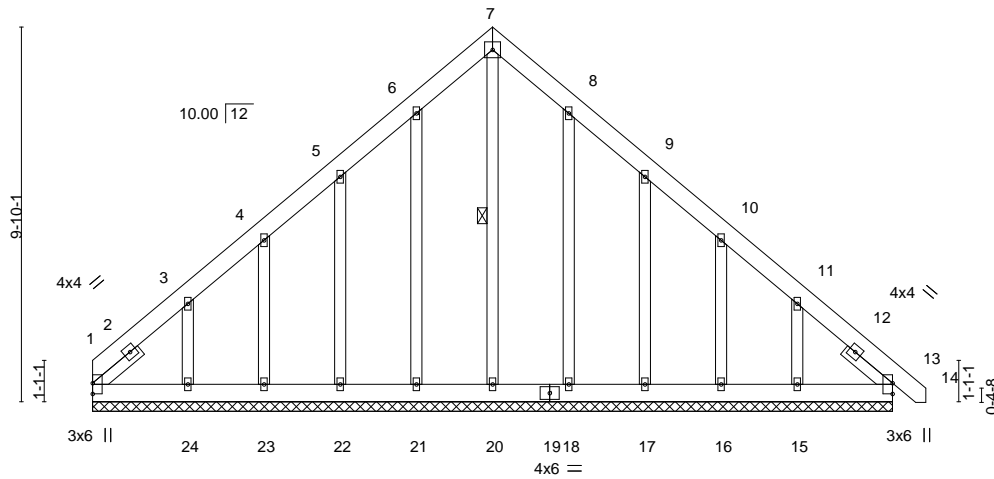
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:17 2022 Page 1
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5x5 =

Scale = 1:60.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	0.00	13	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	13	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Horz(CT)	0.00	13	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code IRC2015/TPI2014								
								Weight: 191 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 1-6-10, Right 2x4 SP No.2 1-6-10

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.
 WEBS 1 Row at midpt 7-20

REACTIONS.

All bearings 21-0-0.
 (lb) - Max Horz 1=-280(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 1, 21, 23, 18, 16 except 22=-127(LC 12), 24=-227(LC 12), 17=-129(LC 13), 15=-211(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 1, 20, 21, 22, 23, 18, 17, 16, 15 except 24=269(LC 19)

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

TOP CHORD 1-3=-304/215, 11-13=-250/141

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-6-0, Exterior(2) 4-6-0 to 10-6-0, Corner(3) 10-6-0 to 14-10-13, Exterior(2) 14-10-13 to 21-8-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 1, 21, 23, 18, 16 except (jt=lb) 22=127, 24=227, 17=129, 15=211.



February 7, 2022

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



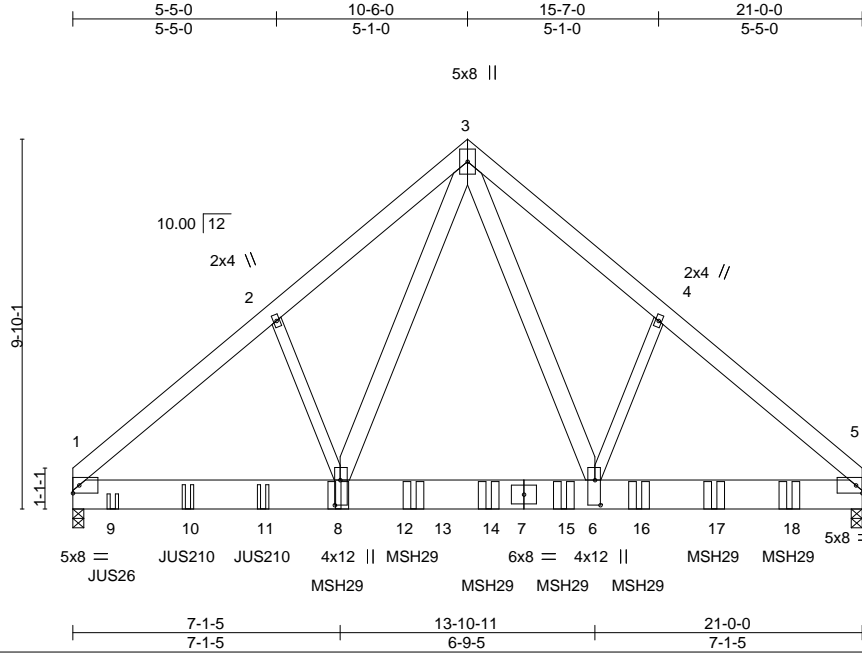
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106928
J0222-0517	B1GR	FINK	1	3	Job Reference (optional)	

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ID:mHVptvPrIWfjeLZnULY80lyxYfs-cqhz3szQG7dkT6YUM_hnxGPS3gfKjoB_YN?IUznXPM



Scale = 1:61.3

Plate Offsets (X,Y)-- [6:0-8-0,0-1-12], [8:0-8-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.06	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.13	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00	8	>999	240		
							Weight: 614 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x6 SP No.1 *Except*
 2-8,4-6: 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=0-3-8, 5=0-3-8
 Max Horz 1=219(LC 26)
 Max Grav 1=8759(LC 2), 5=9981(LC 2)

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

TOP CHORD 1-2=-10659/0, 2-3=-10317/0, 3-4=-11062/0, 4-5=-11410/0
 BOT CHORD 1-8=0/7737, 6-8=0/5721, 5-6=0/8301
 WEBS 2-8=-58/590, 3-8=0/6275, 3-6=0/7920, 4-6=-51/610

NOTES-

- 3-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 - 3 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- 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=6.0psf; 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.
- Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- Use USP JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-0-12 from the left end to 5-0-12 to connect truss(es) to front face of bottom chord.
- Use USP MSH29 (With 18-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 7-0-12 from the left end to 19-0-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-20, 1-3=-60, 3-5=-60



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Continued on page 2

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106928
J0222-0517	B1GR	FINK	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:19 2022 Page 2
 ID:mHVptvPrIWfejLZnULY80lyxYfS-cqhz3szQG7dk6YUM_hnxGPS3gfKljoB_YN?IUznXPM

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-1938(F) 9=-832(F) 10=-979(F) 11=-979(F) 13=-1938(F) 14=-1938(F) 15=-1938(F) 16=-1887(F) 17=-1887(F) 18=-1887(F)

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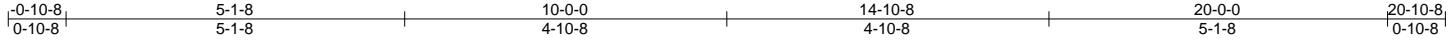
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106929
J0222-0517	G1	QUEENPOST	5	1	Job Reference (optional)	

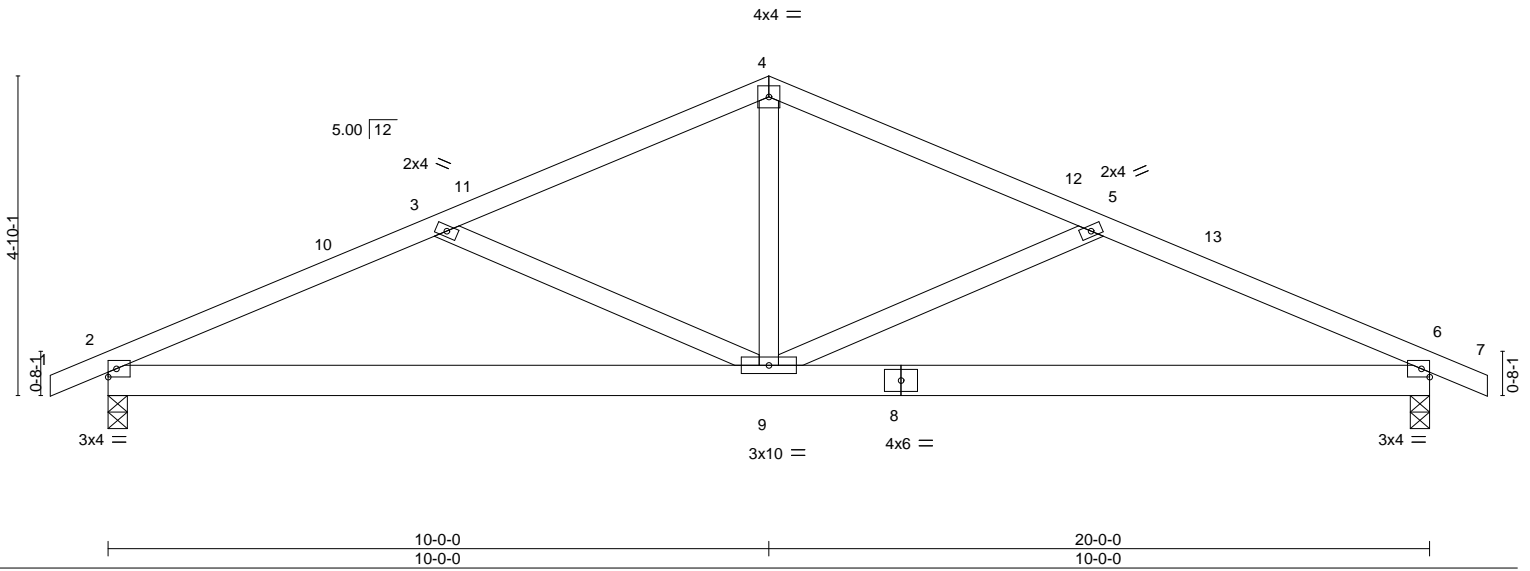
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:19 2022 Page 1

ID:mHVpTvPrIWfejLZnULY80lyxYfS-cqhz3szQG7dkt6YUM_hnxGPVrgecll3B_YN?IUznXPM



Scale = 1:34.9



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 0.34	Vert(LL)	-0.06	6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.13	6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	9	>999	240		
									Weight: 104 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-1-11 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) 2=0-3-8, 6=0-3-8
 Max Horz 2=-54(LC 17)
 Max Uplift 2=-64(LC 12), 6=-64(LC 13)
 Max Grav 2=850(LC 1), 6=850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1395/383, 3-4=-1069/271, 4-5=-1069/271, 5-6=-1395/383
 BOT CHORD 2-9=-290/1205, 6-9=-291/1205
 WEBS 3-9=-334/229, 4-9=-44/541, 5-9=-334/229

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



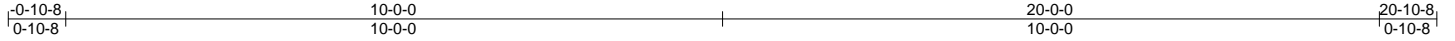
February 7, 2022

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106930
J0222-0517	G1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:20 2022 Page 1

ID:mHVPtPrWfejLZnUly80lyxYfS-40FLGC_21RlbUG7hvhD0TujlA42M1EVKCC7YqwnXPL



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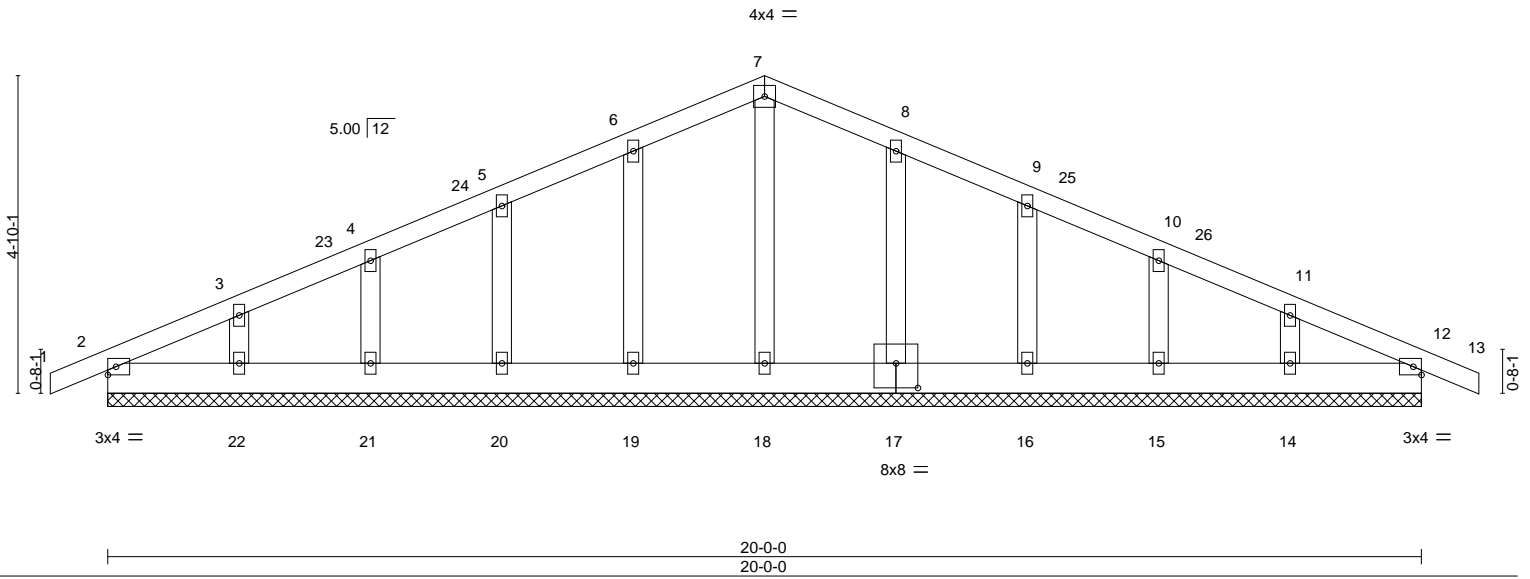


Plate Offsets (X,Y)-- [17:0-4-0,0-4-8]

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 0.05	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 112 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 20-0-0.
 (lb) - Max Horz 2=-92(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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; BCCL=6.0psf; 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 10-0-0, Corner(3) 10-0-0 to 14-4-13, Exterior(2) 14-4-13 to 20-10-8 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) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.



February 7, 2022

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

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

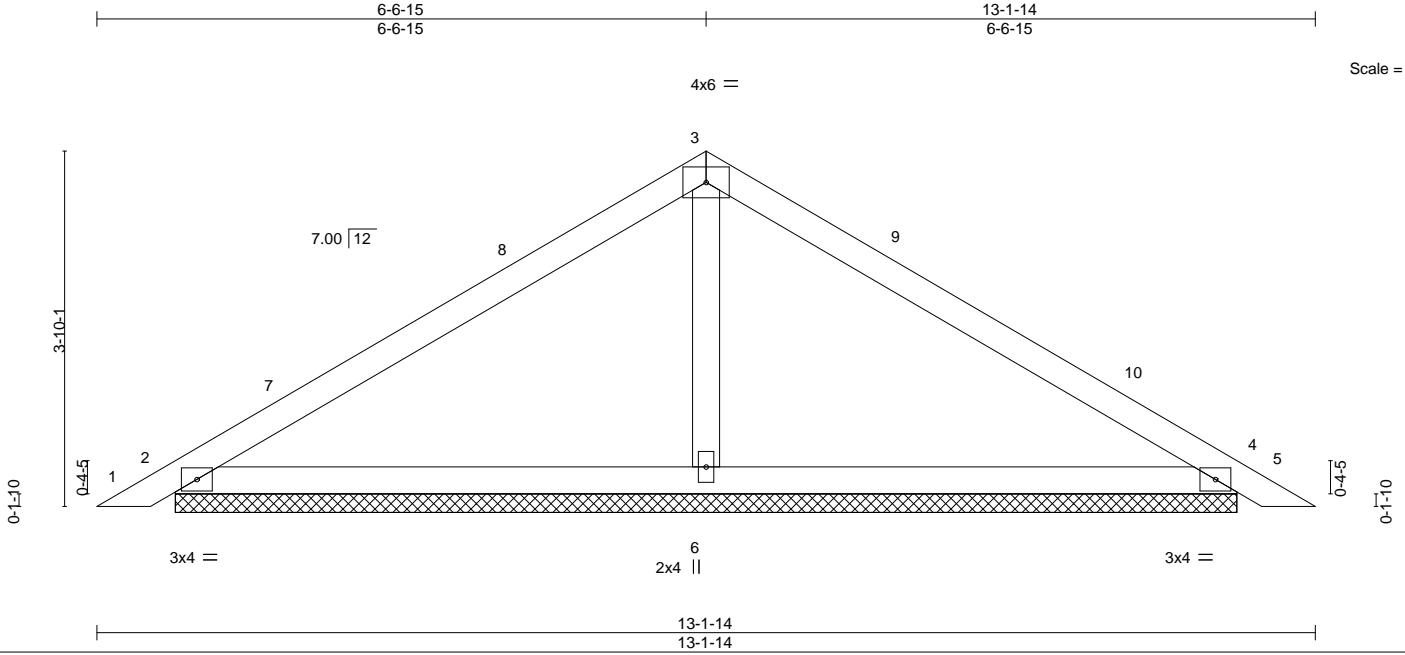


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106931
J0222-0517	PB	PIGGYBACK	22	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:21 2022 Page 1
ID:mHVptvPrIWfejLznULY80lyxYfS-YCpkUY_goltS6QitTPkF0hVrUUL3mgFURss6NMznXPK



Scale = 1:24.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) 0.02 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.03 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

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

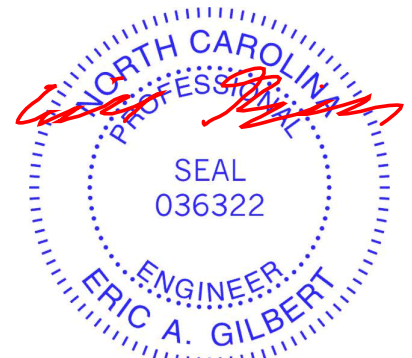
REACTIONS.

(size) 2=11-5-9, 4=11-5-9, 6=11-5-9
Max Horz 2=-88(LC 10)
Max Uplift 2=-36(LC 12), 4=-45(LC 13)
Max Grav 2=253(LC 1), 4=253(LC 1), 6=478(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-303/127

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-8 to 4-8-4, Interior(1) 4-8-4 to 6-6-15, Exterior(2) 6-6-15 to 10-11-12, Interior(1) 10-11-12 to 12-10-6 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) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 7, 2022

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

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

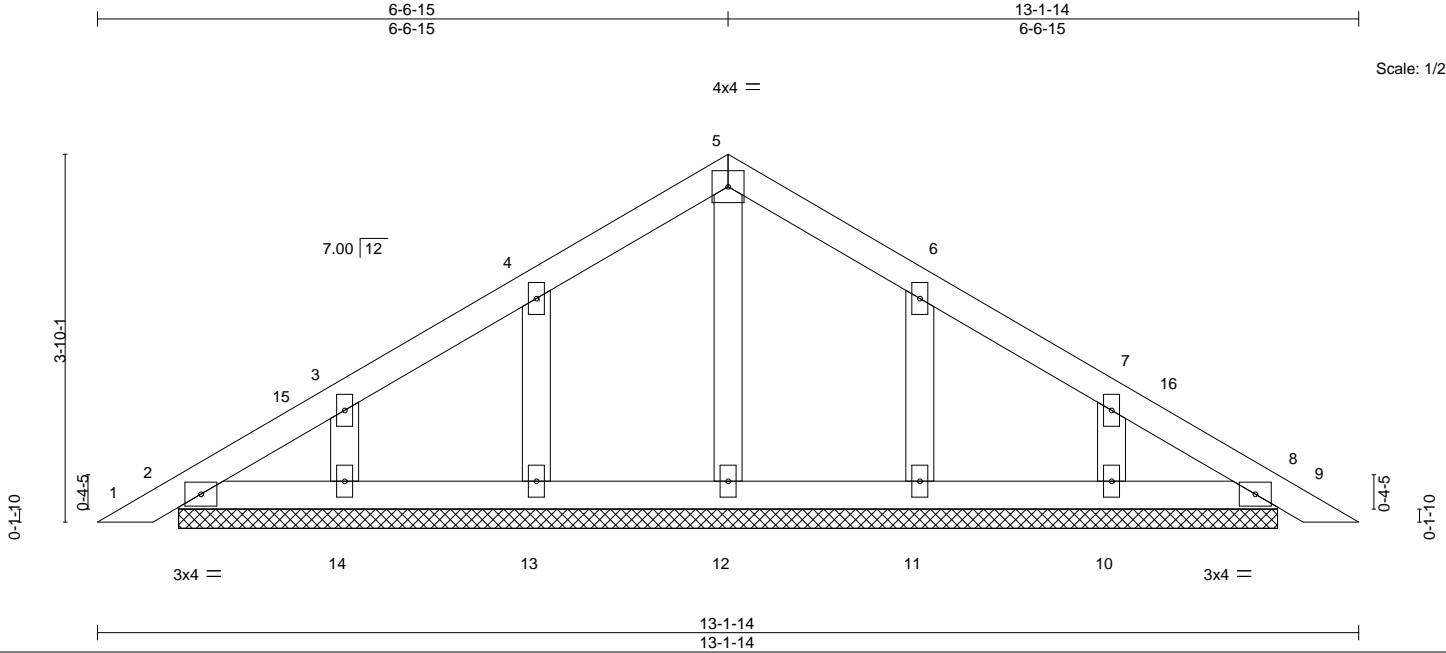


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106932
J0222-0517	PBGE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:22 2022 Page 1
ID:mHVptvPrfWfejLZnULY80lyxYfS-0PN6ht?JZ2?JkaH316FUZv14vthV8DdgWcfvpznXPJ



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(oc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 53 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 11-5-9.

- (lb) - Max Horz 2=-110(LC 10)
- Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
- Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 4-6-15, Interior(1) 4-6-15 to 6-6-15, Exterior(2) 6-6-15 to 10-11-12, Interior(1) 10-11-12 to 12-10-6 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, 8, 13, 14, 11, 10.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 7, 2022

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

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

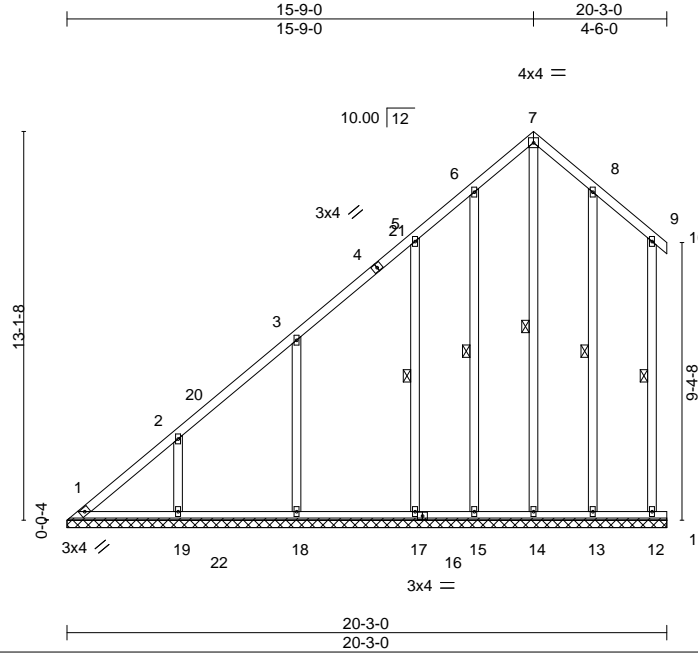


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106933
J0222-0517	V1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:23 2022 Page 1
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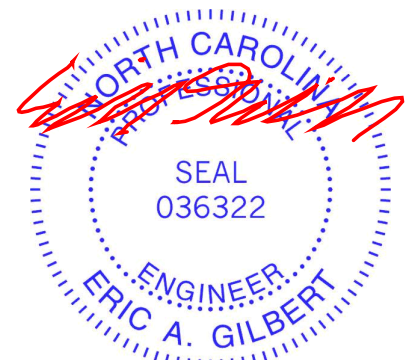
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 160 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	WEBS 1 Row at midpt 7-14, 6-15, 5-17, 8-13, 9-12

REACTIONS. All bearings 20-3-0.
 (lb) - Max Horz 1=499(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 11, 12 except 1=133(LC 10), 17=182(LC 12), 18=229(LC 12), 19=224(LC 12), 13=111(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 10, 14, 15, 13, 12 except 1=345(LC 12), 17=405(LC 19), 18=569(LC 19), 19=405(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-590/403, 2-3=-395/274
 WEBS 5-17=-271/221, 3-18=-341/280, 2-19=-325/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 15-9-0, Exterior(2) 15-9-0 to 20-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 11, 12 except (jt=lb) 1=133, 17=182, 18=229, 19=224, 13=111.

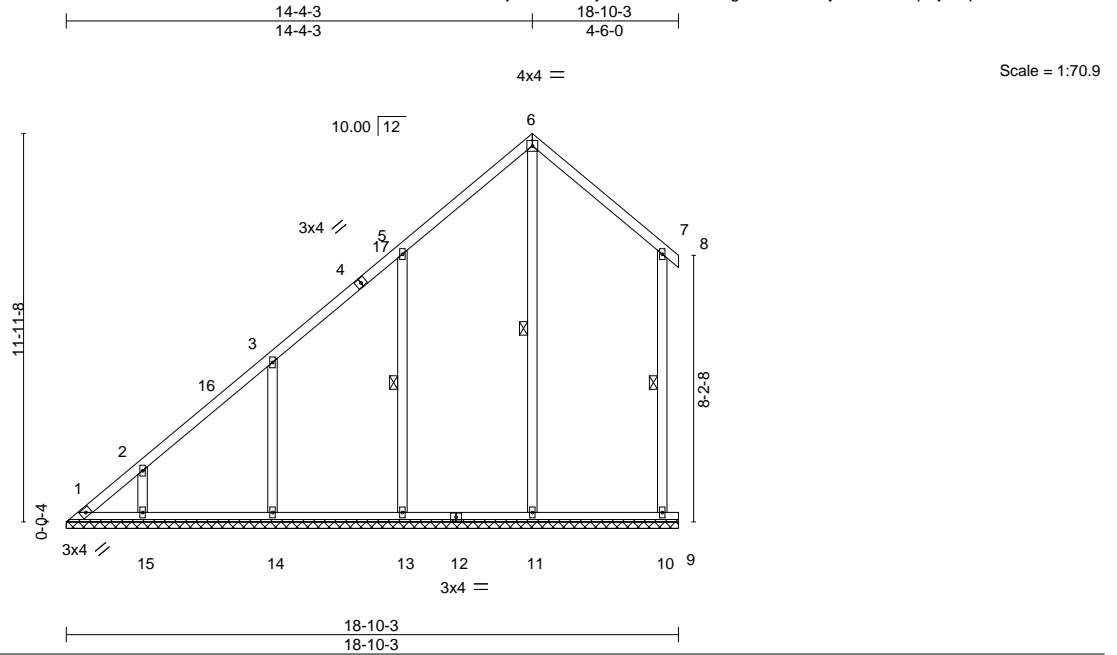


February 7, 2022

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106934
J0222-0517	V2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:24 2022 Page 1
ID:mHVptvPrIWfejLznJULY80lyxYfS-znUs6Z1Z5gF1ztRS8XHyeK7ObhOqz0jw7q5mzhznXPH



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 114 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-11, 5-13, 7-10

REACTIONS.

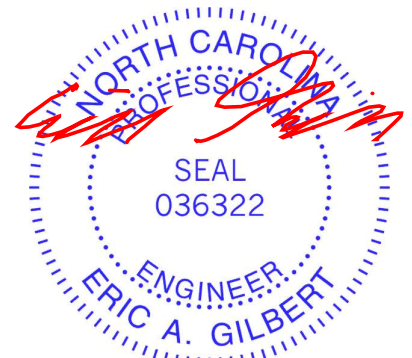
All bearings 18-10-3.
(lb) - Max Horz 1=302(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-142(LC 20), 1=-142(LC 10), 13=-136(LC 12), 14=-126(LC 12), 15=-107(LC 12), 10=-143(LC 13), 9=-184(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 11=502(LC 19), 13=563(LC 19), 14=451(LC 19), 15=288(LC 19), 10=608(LC 20)

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

TOP CHORD 1-2=-379/378, 2-3=-271/249
WEBS 5-13=-343/242, 3-14=-335/215, 2-15=-281/213, 7-10=-369/282

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 14-4-3, Exterior(2) 14-4-3 to 18-10-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 8, 142 lb uplift at joint 1, 136 lb uplift at joint 13, 126 lb uplift at joint 14, 107 lb uplift at joint 15, 143 lb uplift at joint 10 and 184 lb uplift at joint 9.



February 7, 2022

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

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106935
J0222-0517	VB1	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:25 2022 Page 1
 ID:mHVptvPrIWfejLZnULY80lyxYfS-R_2EKv1BszNub1?eiFoBAXfYf5k3iRn3MUqJW8znXPG

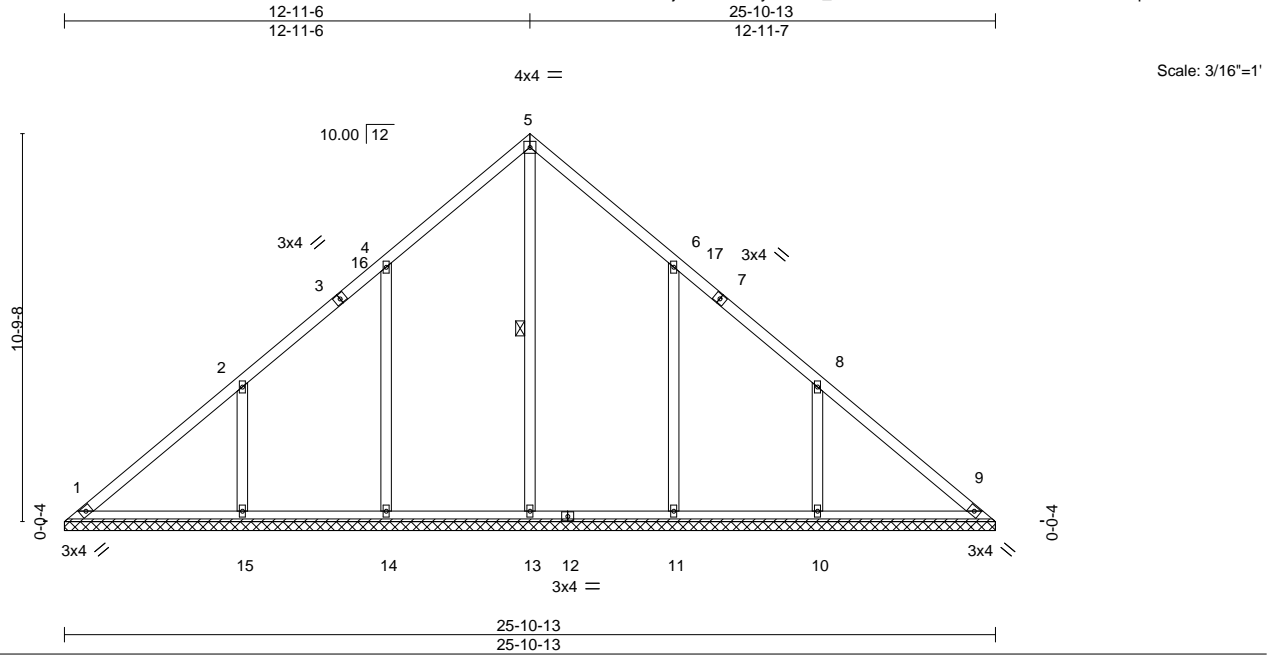


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 133 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
 WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 25-10-13.
 (lb) - Max Horz 1=-251(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 14=-128(LC 12), 15=-152(LC 12), 11=-127(LC 13), 10=-152(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 13=440(LC 22), 14=544(LC 19), 15=518(LC 19), 11=544(LC 20), 10=518(LC 20)

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

TOP CHORD 4-5=-256/236, 5-6=-256/236
 WEBS 4-14=-327/235, 2-15=-389/270, 6-11=-327/235, 8-10=-389/270

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-11-6, Interior(1) 4-11-6 to 12-11-6, Exterior(2) 12-11-6 to 17-4-3, Interior(1) 17-4-3 to 25-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 14=128, 15=152, 11=127, 10=152.



February 7, 2022

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106936
J0222-0517	VB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:25 2022 Page 1
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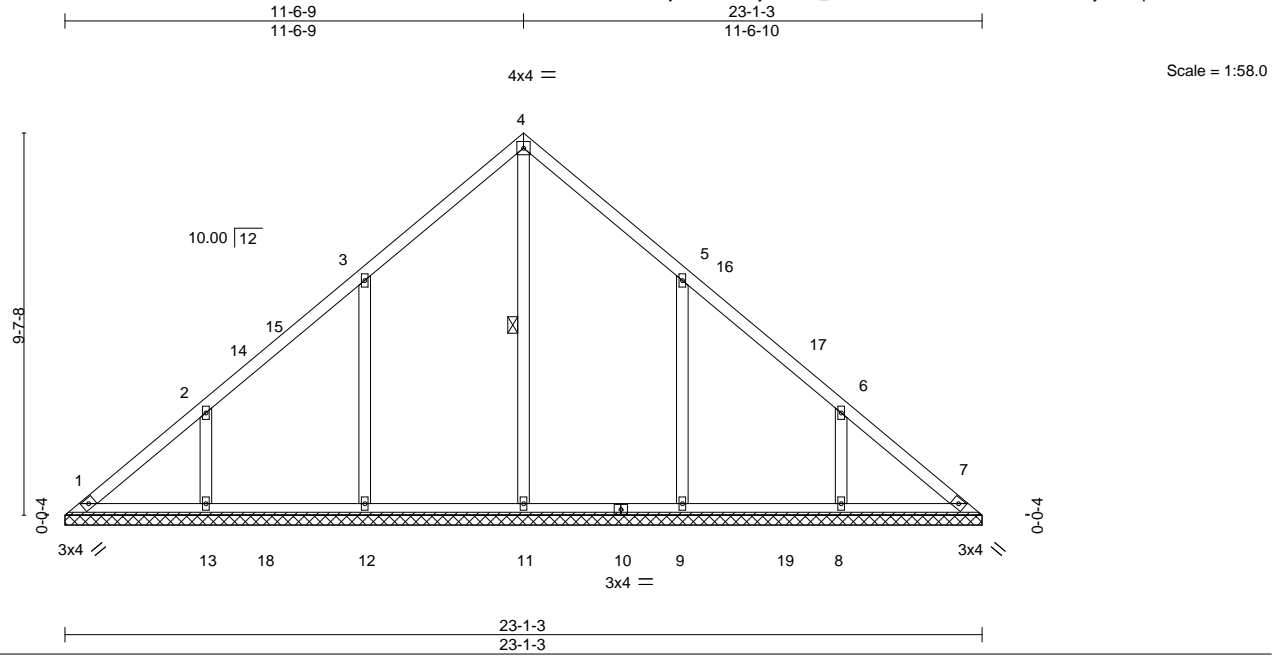


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 115 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-11

REACTIONS.

All bearings 23-1-3.
 (lb) - Max Horz 1=223(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=137(LC 12), 13=121(LC 12), 9=137(LC 13), 8=121(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=430(LC 22), 12=556(LC 19), 13=376(LC 19), 9=555(LC 20), 8=377(LC 20)

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

WEBS 3-12=350/249, 2-13=315/229, 5-9=350/249, 6-8=315/229

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 11-6-9, Exterior(2) 11-6-9 to 15-11-6, Interior(1) 15-11-6 to 22-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=137, 13=121, 9=137, 8=121.



February 7, 2022

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

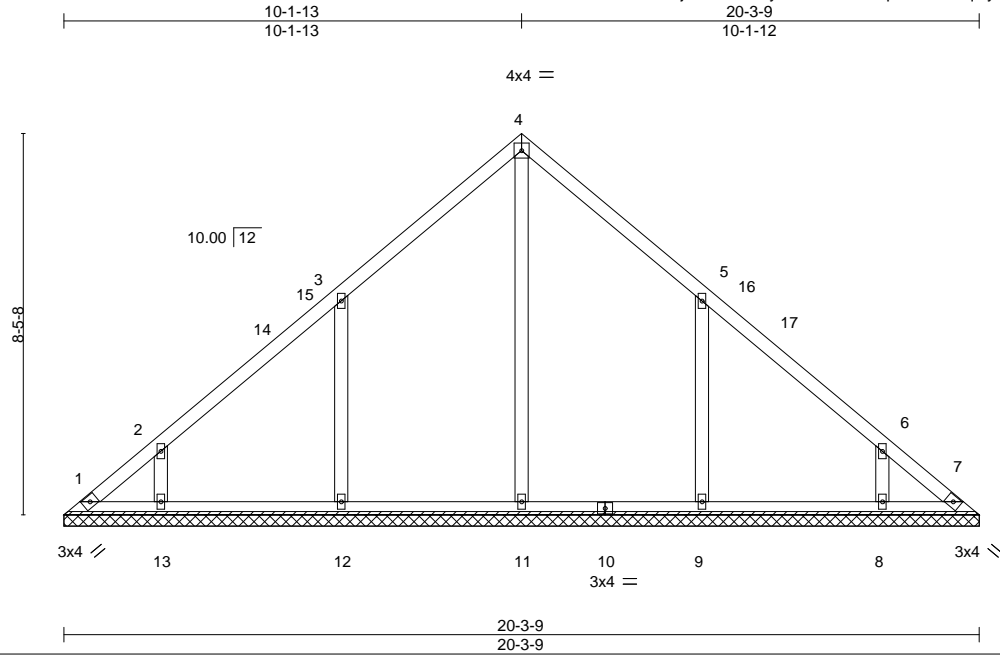


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106937
J0222-0517	VB3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:26 2022 Page 1
ID:mHVptvPrIWfejLZnULY80lyxYfs-vAcXf2pdHVICBaqGyJQjCk_V41RwhDb8at2aznXPF



Scale = 1:51.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 97 lb	FT = 20%
	Code IRC2015/TPI2014							

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 20-3-9.
(lb) - Max Horz 1=195(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=141(LC 12), 13=101(LC 12), 9=141(LC 13), 8=101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=440(LC 22), 12=475(LC 19), 13=275(LC 19), 9=474(LC 20), 8=275(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-358/254, 2-13=-271/210, 5-9=-358/254, 6-8=-271/210

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-1-13, Exterior(2) 10-1-13 to 14-6-9, Interior(1) 14-6-9 to 19-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=141, 13=101, 9=141, 8=101.



February 7, 2022

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106938
J0222-0517	VB4	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:27 2022 Page 1
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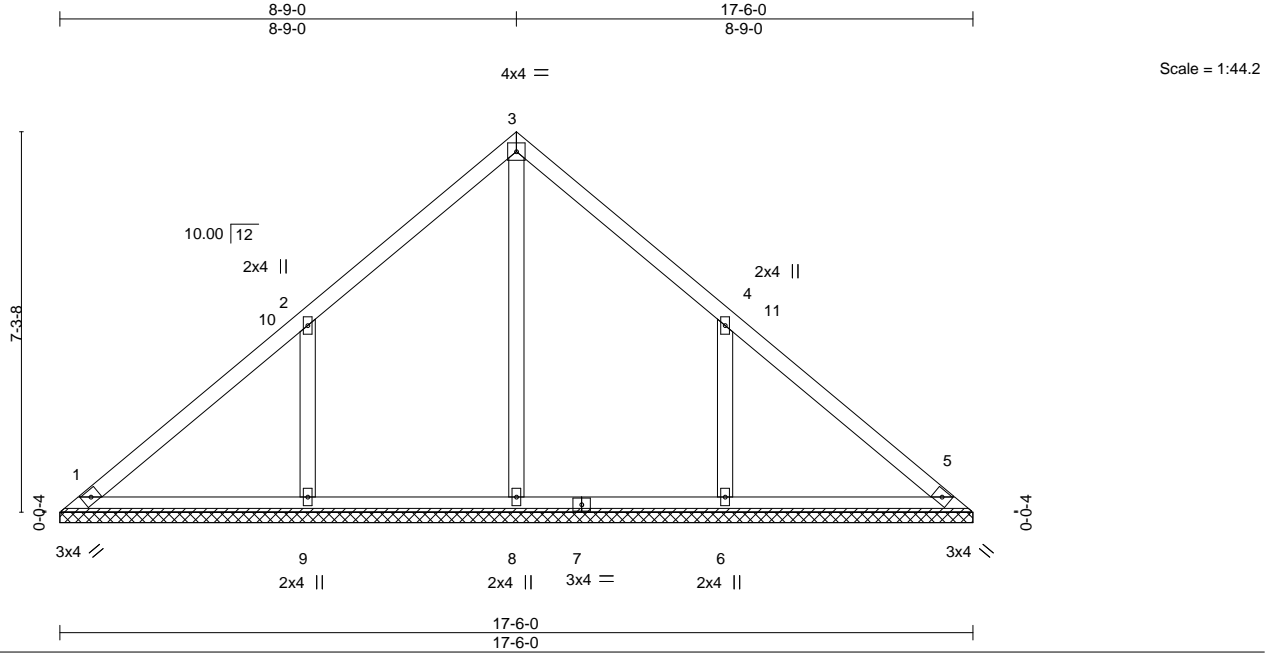


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 78 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.

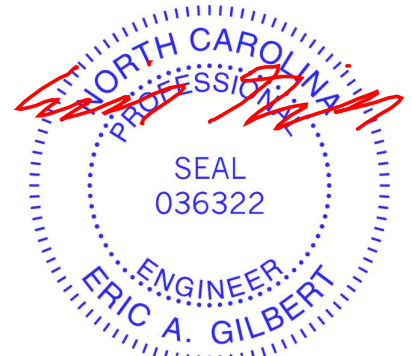
All bearings 17'-6-0.
(lb) - Max Horz 1=167(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=160(LC 12), 6=160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=417(LC 22), 9=527(LC 19), 6=527(LC 20)

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

WEBS 2-9=399/275, 4-6=399/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-0, Interior(1) 4-9-0 to 8-9-0, Exterior(2) 8-9-0 to 13-1-13, Interior(1) 13-1-13 to 17-1-3 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=160, 6=160.



February 7, 2022

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106939
J0222-0517	VB5	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:28 2022 Page 1
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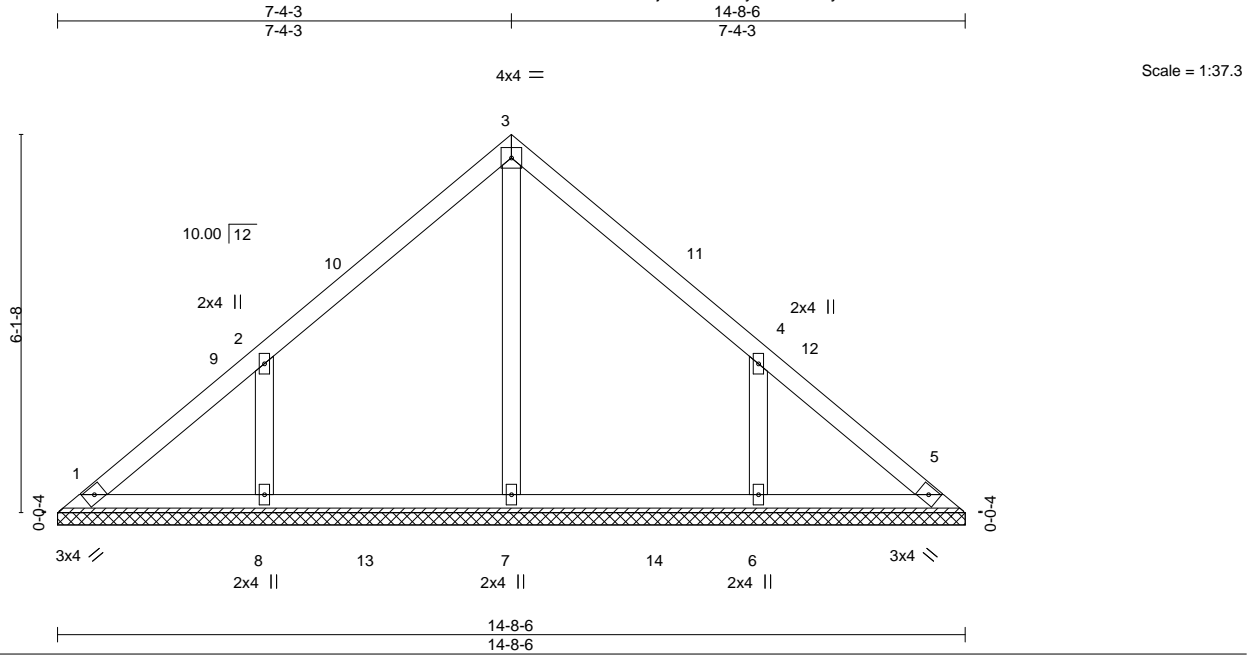


Plate Offsets (X,Y)-- [4:0-0-0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 64 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 14-8-6.
 (lb) - Max Horz 1=139(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=134(LC 12), 6=134(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=398(LC 19), 8=388(LC 19), 6=388(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=336/245, 4-6=336/245

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-4-3, Exterior(2) 7-4-3 to 11-9-0, Interior(1) 11-9-0 to 14-3-9 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=134, 6=134.



February 7, 2022

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106940
J0222-0517	VB6	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:29 2022 Page 1
ID:mHVptvPrIWfejLZnULY80lyxYfS-Jlll9H4iwCtK3eJPx4t7LNqFfi6EdJLH5oXfvznXPC

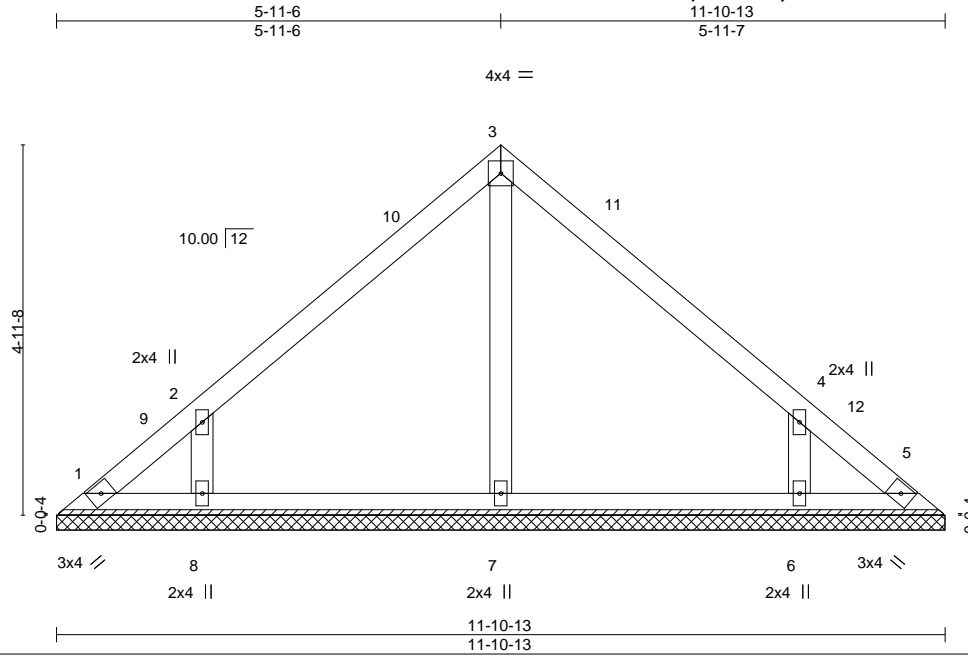


Plate Offsets (X,Y)-- [4:0-0-0-0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 49 lb	FT = 20%
	Code IRC2015/TPI2014							

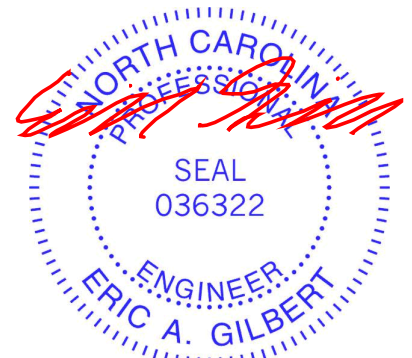
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 11-10-13.
(lb) - Max Horz 1=111(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=124(LC 12), 6=123(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 19), 6=325(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-315/247, 4-6=-315/247

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-11-6, Exterior(2) 5-11-6 to 10-4-3, Interior(1) 10-4-3 to 11-6-0 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, 5 except (jt=lb) 8=124, 6=123.



February 7, 2022

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

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

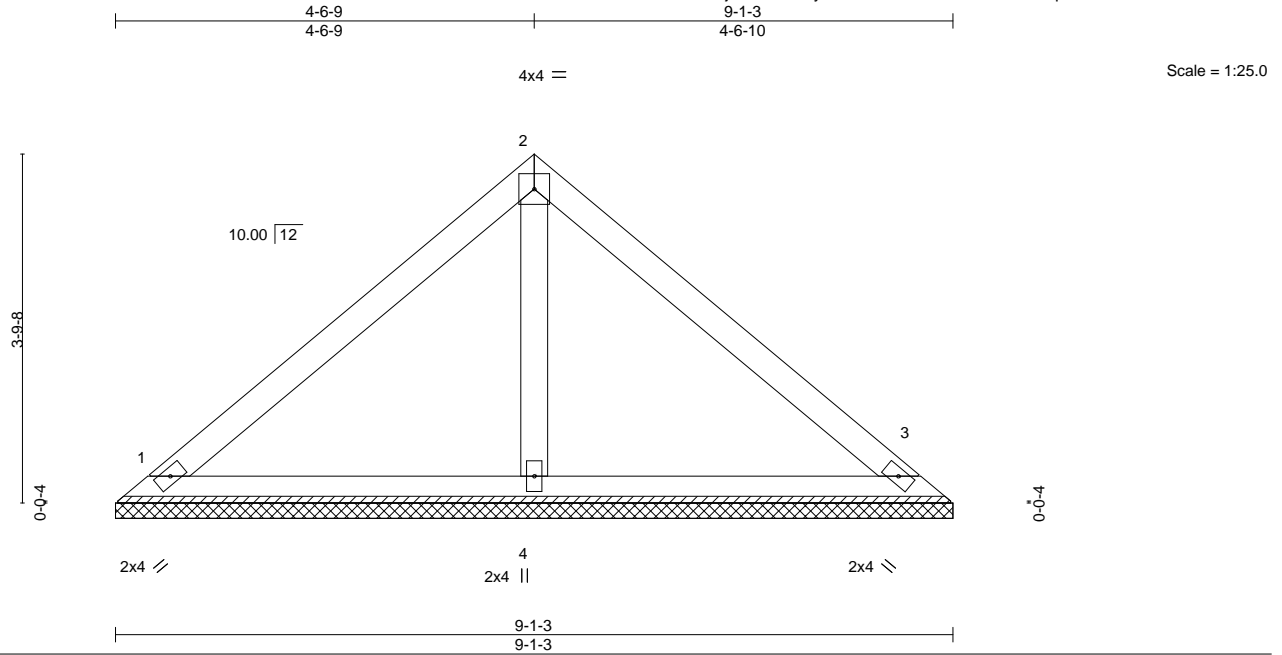
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106941
J0222-0517	VB7	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:29 2022 Page 1
ID:mHVptvPrWfeJLZnULY80lyxYfS-Jlll9H4iwCtK3eJPx4t7LNqFwi6fdJdfH5oXfvznXPC



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

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

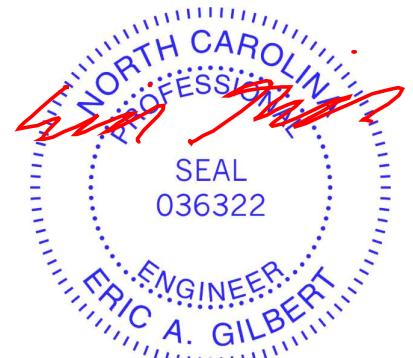
REACTIONS.

(size) 1=9-1-3, 3=9-1-3, 4=9-1-3
Max Horz 1=-83(LC 8)
Max Uplift 1=-19(LC 13), 3=-27(LC 13)
Max Grav 1=177(LC 1), 3=177(LC 1), 4=309(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



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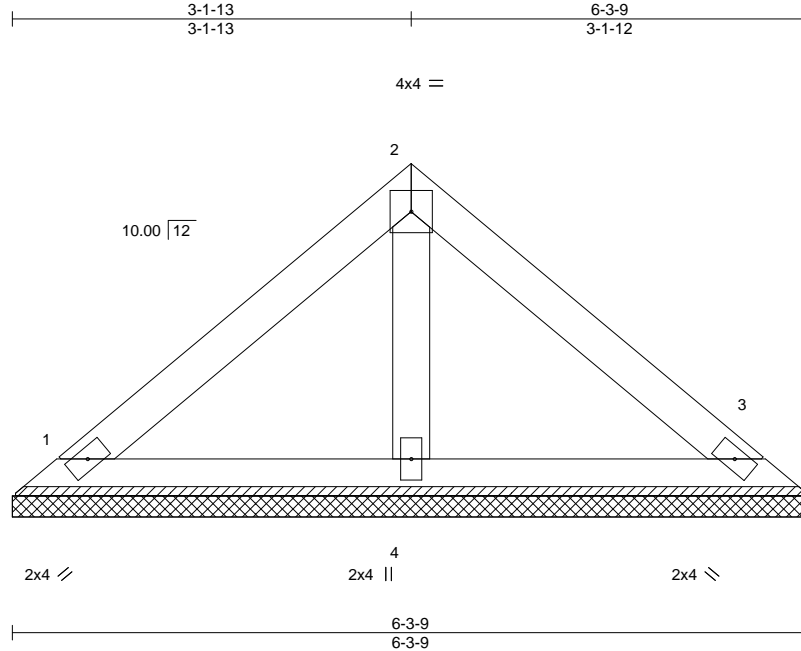


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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106942
J0222-0517	VB8	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:30 2022 Page 1
 ID:mHVPtVPrIWfejLZnULY80lyxYfS-nxs7Nd5KhW?BhoucVoOMtbMRm6T?MmFoWiy4BLznXPB



Scale = 1:18.2

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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=6-3-9, 3=6-3-9, 4=6-3-9
 Max Horz 1=55(LC 9)
 Max Uplift 1=19(LC 13), 3=24(LC 13)
 Max Grav 1=127(LC 1), 3=127(LC 1), 4=185(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



February 7, 2022

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



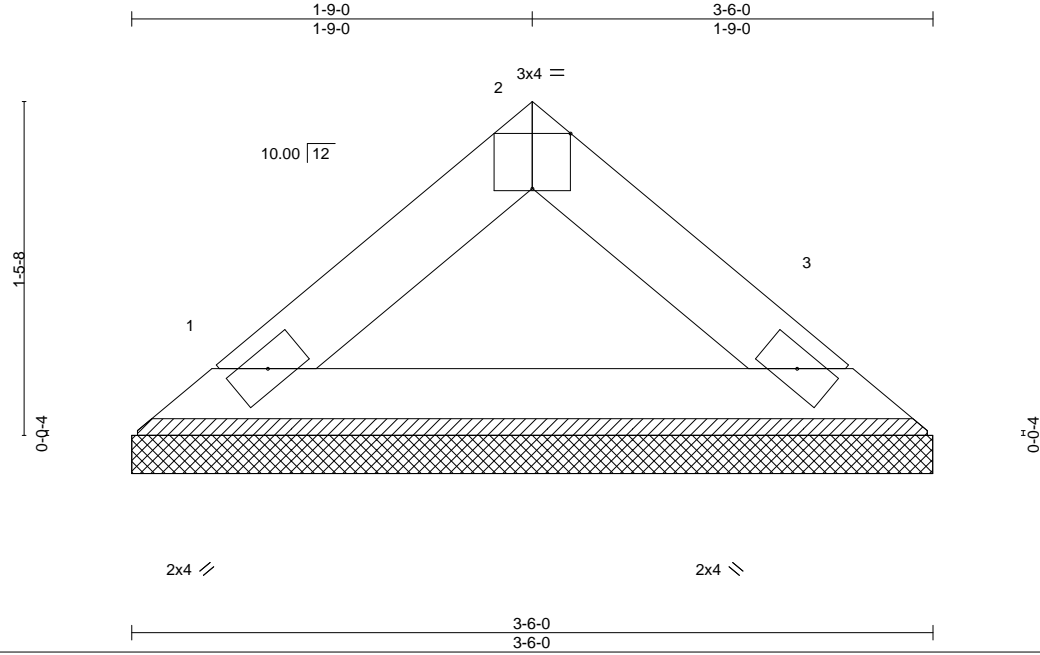
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106943
J0222-0517	VB9	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:mHVptvPrIWfejLZnULY80lyxYfS-nxs7Nd5KhW?BhoucVoOMtbMS26TvMmVoWIY4BLznXPB



Scale = 1:10.1

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 0.06	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: 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 3-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-6-0, 3=3-6-0
Max Horz 1=-27(LC 8)
Max Uplift 1=-5(LC 12), 3=-5(LC 13)
Max Grav 1=108(LC 1), 3=108(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



February 7, 2022

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

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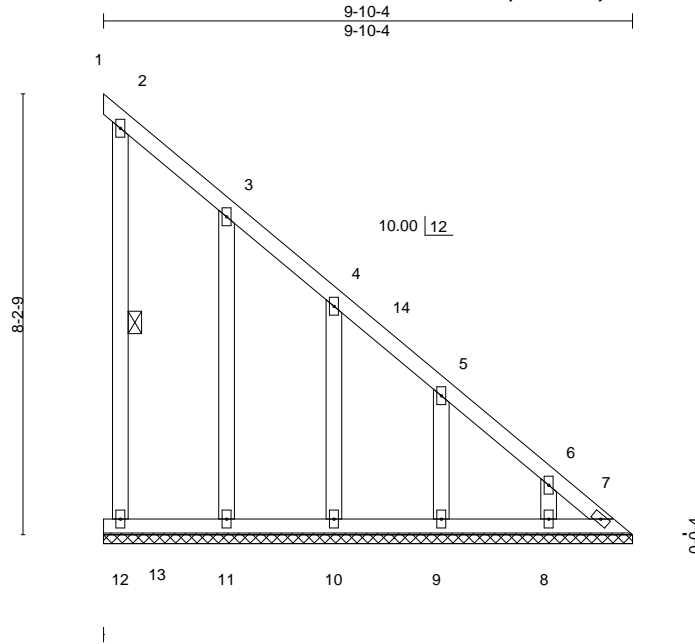
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106944
J0222-0517	VMB1	GABLE	1	1	Job Reference (optional)	

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ID:mHVptvPrIWfejLZnJLY80lyxYfS-G7QWay6ySp72JyTo3VvbQovc3Wpo5C?ykpHdjznXPA



Scale = 1:42.9

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 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 63 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-12

REACTIONS.

All bearings 9-10-4.
 (lb) - Max Horz 1=-369(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 7, 13, 8 except 1=-107(LC 11), 11=-121(LC 13), 10=-108(LC 13), 9=-114(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8 except 1=303(LC 13)

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

TOP CHORD 1-2=-396/477, 2-3=-363/427, 3-4=-270/320

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 6-3-8, Interior(1) 6-3-8 to 9-5-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 13, 8 except (jt=lb) 1=107, 11=121, 10=108, 9=114.



February 7, 2022

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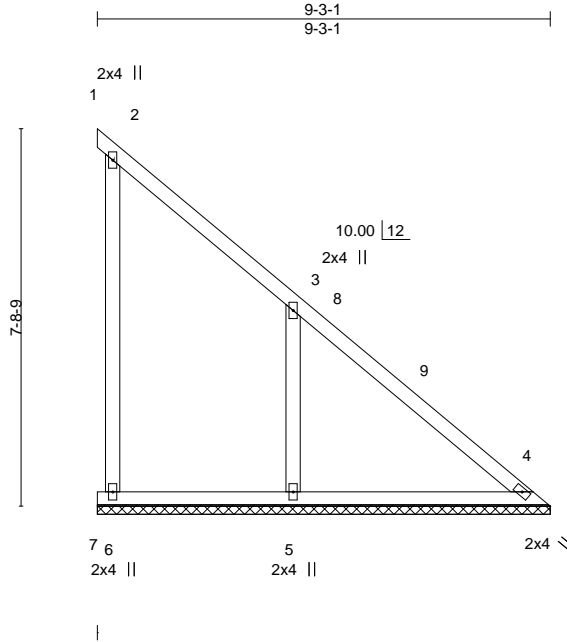
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes/4 Avery Farm/Harnett	150106945
J0222-0517	VMB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 7 12:19:32 2022 Page 1

ID:mHVptvPrIWfejLZnULY80lyxYfS-kKzuol7aC7Fuw62_cDQqz0SINv7Cqf55z31BGEznXP9



Scale = 1:47.1

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 0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 47 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 9-3-1.
 (lb) - Max Horz 1=-240(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 4 except 1=-115(LC 11), 7=-280(LC 18), 5=-167(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 6=481(LC 18), 5=544(LC 20)

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

TOP CHORD 1-2=-409/476, 2-3=-334/369
 WEBS 3-5=-437/338

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 6-2-11, Interior(1) 6-2-11 to 8-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4 except (jt=lb) 1=115, 7=280, 5=167.



February 7, 2022

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



818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

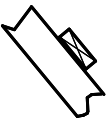
* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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