ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J0222-0515
Regency Homes / 1 Avery Pointe / Harnett

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J0222-0515
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2009/TPI2007 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-05 Wind Speed: 100 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 28 individual, dated Truss Design Drawings and 0 Additional Drawings.

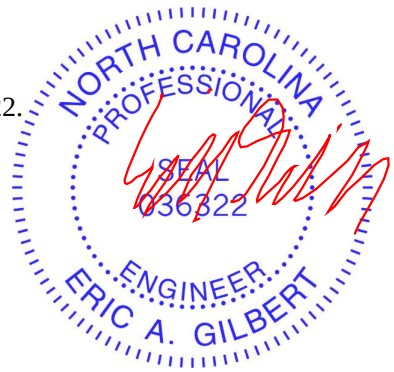
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16485963	A1	12/15/2021	21	E16485983	VB1	12/15/2021
2	E16485964	A1GE	12/15/2021	22	E16485984	VB2	12/15/2021
3	E16485965	A2	12/15/2021	23	E16485985	VB3	12/15/2021
4	E16485966	A2X	12/15/2021	24	E16485986	VB4	12/15/2021
5	E16485967	A3	12/15/2021	25	E16485987	VB5	12/15/2021
6	E16485968	A3X	12/15/2021	26	E16485988	VB6	12/15/2021
7	E16485969	A4	12/15/2021	27	E16485989	VB7	12/15/2021
8	E16485970	A5	12/15/2021	28	E16485990	VB8	12/15/2021
9	E16485971	A6	12/15/2021				
10	E16485972	A7	12/15/2021				
11	E16485973	A8	12/15/2021				
12	E16485974	A9	12/15/2021				
13	E16485975	A9GE	12/15/2021				
14	E16485976	B1	12/15/2021				
15	E16485977	B1GE	12/15/2021				
16	E16485978	B1GR	12/15/2021				
17	E16485979	G1	12/15/2021				
18	E16485980	G1GE	12/15/2021				
19	E16485981	PB	12/15/2021				
20	E16485982	PBGE	12/15/2021				

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844



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

December 15, 2021

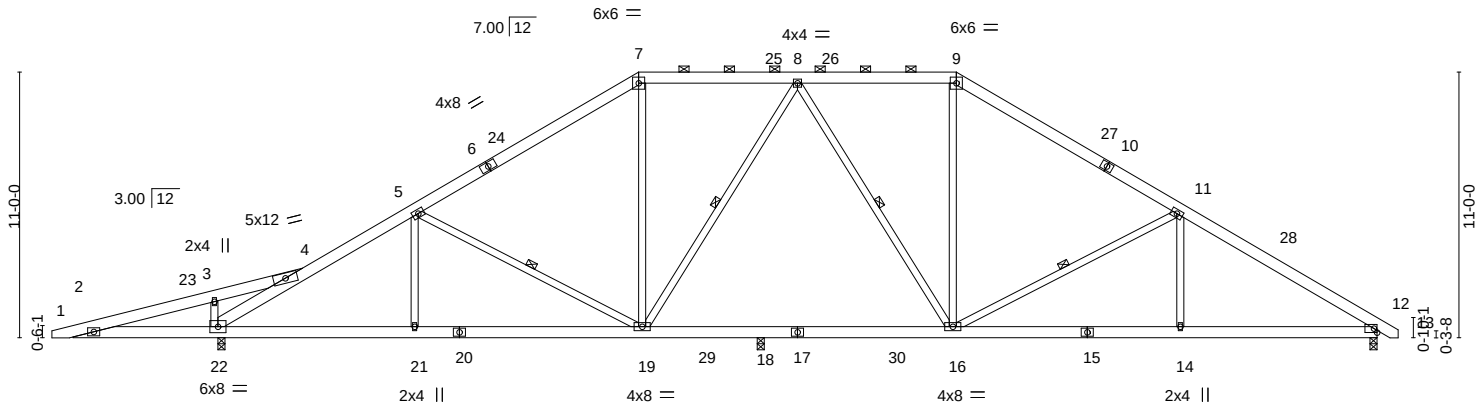
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A1	PIGGYBACK BASE	5	1	E16485963 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:19 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80lyxYfS-2419y31bENFQCN2HA5muJ6qVA20pBIsaHEUwQ2y8mJk

-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'



6-1-12	14-1-12	23-5-1	28-7-8	36-6-15	45-10-4	54-0-0
6-1-12	8-0-0	9-3-5	5-2-7	7-11-7	9-3-5	8-1-12

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

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except 2-0-0 oc purlins (5-9-15 max.): 4-22, 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.
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-
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) -0-6-3 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 22 and 116 lb uplift at joint 12.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

December 15,2021

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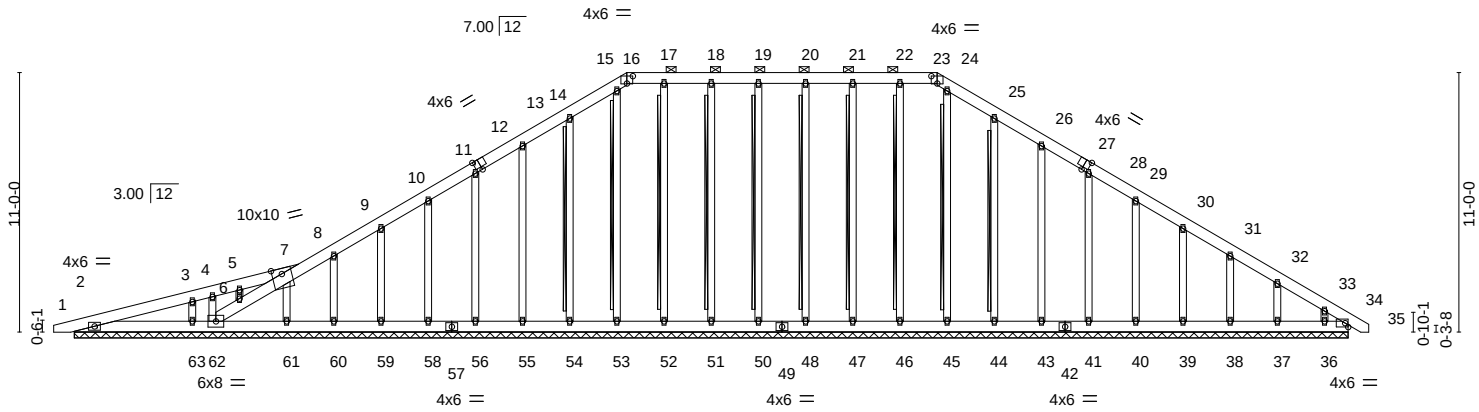
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A1GE	GABLE	1	1	E16485964
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:21 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-_T9wNl3sl_V8RhCfIWoMOXv1GspcfGaskXz1Uxy8mJi

-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



54-0-0
54-0-0

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-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-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 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-62, 16-23.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 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 2-0-0 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 3-6-0 tall by 2-0-0 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 (jt=lb) 63=136, 36=122.

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

December 15,2021

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NOTES-

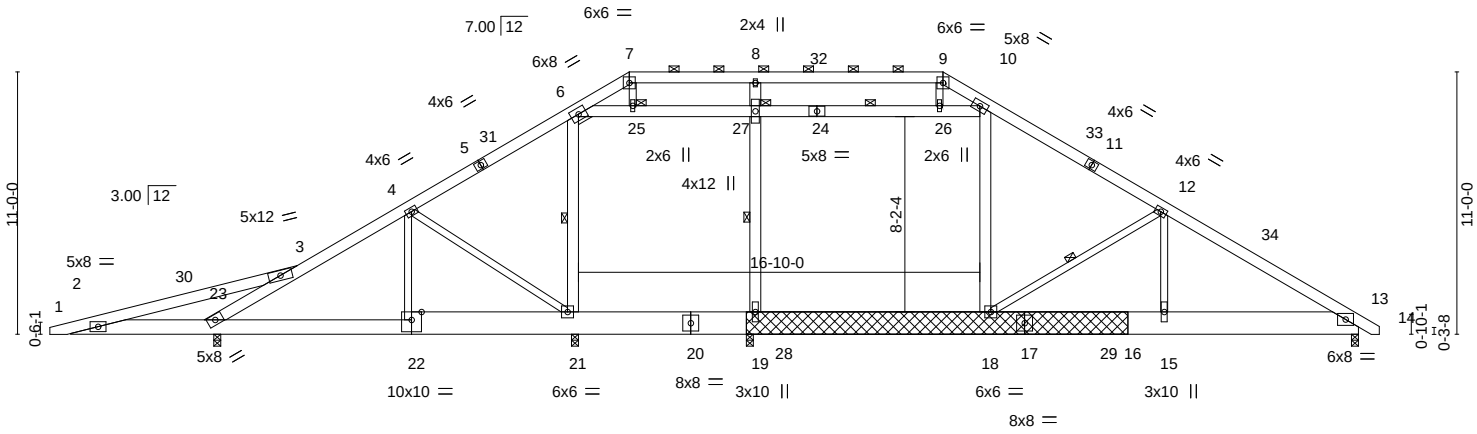
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A2	ROOF TRUSS	1	1	E16485965 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:23 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80lyxYfS-wsHgoR46Hclsg_M2PxrqTy?lvgM573K9CrS8Zqy8mJg

-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'



6-0-0	14-1-12	21-1-12	28-5-12	38-4-4	45-10-4	54-0-0
6-0-0	8-1-12	7-0-0	7-4-0	9-10-8	7-6-0	8-1-12

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.09	15-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.20	15-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	15-18	>999	240	Weight: 682 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x12 SP 2400F 2.0E *Except* 2-22: 2x8 SP No.1, 20-22: 2x12 SP No.1
WEBS	2x6 SP No.1 *Except* 4-21,12-18,12-15,4-22,7-25,9-26: 2x4 SP No.2, 6-6: 2x4 SP No.3
OTHERS	2x12 SP 2400F 2.0E
LBR SCAB	16-19 2x12 SP 2400F 2.0E both sides

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-23, 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23.
WEBS	1 Row at midpt 12-18, 6-21, 10-27, 19-27
JOINTS	1 Brace at Jt(s): 25, 27

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 23=254(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 21=-198(LC 9), 23=-135(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 21=496(LC 24), 19=2361(LC 2), 23=1839(LC 1), 13=1607(LC 21)

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

TOP CHORD	2-3=-869/1036, 3-23=-2667/751, 3-4=-1827/0, 4-6=-1618/86, 6-7=-460/55, 7-8=-348/45, 8-9=-348/45, 9-10=-490/67, 10-12=-1595/98, 12-13=-2574/135
BOT CHORD	2-23=-942/902, 22-23=0/1518, 21-22=0/1521, 19-21=0/1251, 18-19=0/1251, 15-18=0/2085, 13-15=0/2085
WEBS	4-21=-453/157, 12-18=-1039/250, 12-15=0/622, 6-21=-201/408, 10-18=-30/257, 6-25=-1090/169, 25-27=-1083/172, 26-27=-1083/172, 10-26=-1104/164, 8-27=-514/249, 19-27=-799/71

NOTES-

1) Attached 16-0-0 scab 16 to 19, both face(s) 2x12 SP 2400F 2.0E 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 2 row(s) at 7" o.c. for 2-0-0.
2) Unbalanced roof live loads have been considered for this design.
3) 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
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (10.0 psf) on member(s). 6-25, 25-27, 26-27, 10-26; Wall dead load (5.0psf) on member(s).6-21, 10-18, 19-27
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 18-19
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 21 and 135 lb uplift at joint 23.
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.

December 15,2021

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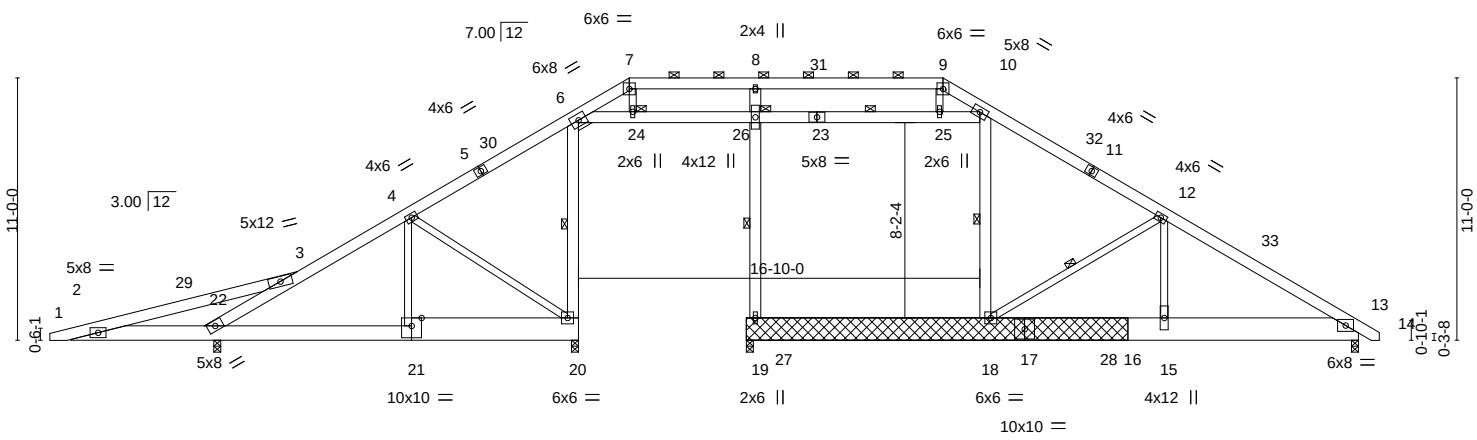
Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A2X	ROOF TRUSS	0	1	E16485966
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:24 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80lyxYfS-O2r20m5k2vtjI8xEzeM309XQe3gesVvJQVBh5Gy8mJf

-0-10-8	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'



6-0-0	14-1-12	21-1-12	28-5-12	38-4-4	45-10-4	54-0-0
6-0-0	8-1-12	7-0-0	7-4-0	9-10-8	7-6-0	8-1-12

LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	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-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 20-21: 2x12 SP No.1
WEBS	2x6 SP No.1 *Except* 4-20,12-18,12-15,4-21,7-24,9-25: 2x4 SP No.2, 6-6: 2x4 SP No.3
OTHERS	2x12 SP No.1
LBR SCAB	16-19 2x12 SP No.1 both sides

BRACING-

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	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.
WEBS	1 Row at midpt 12-18, 6-20, 10-18, 10-26, 19-26
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) 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-

1) 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.
2) Unbalanced roof live loads have been considered for this design.
3) 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
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) 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
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19
9) 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.
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.

December 15,2021

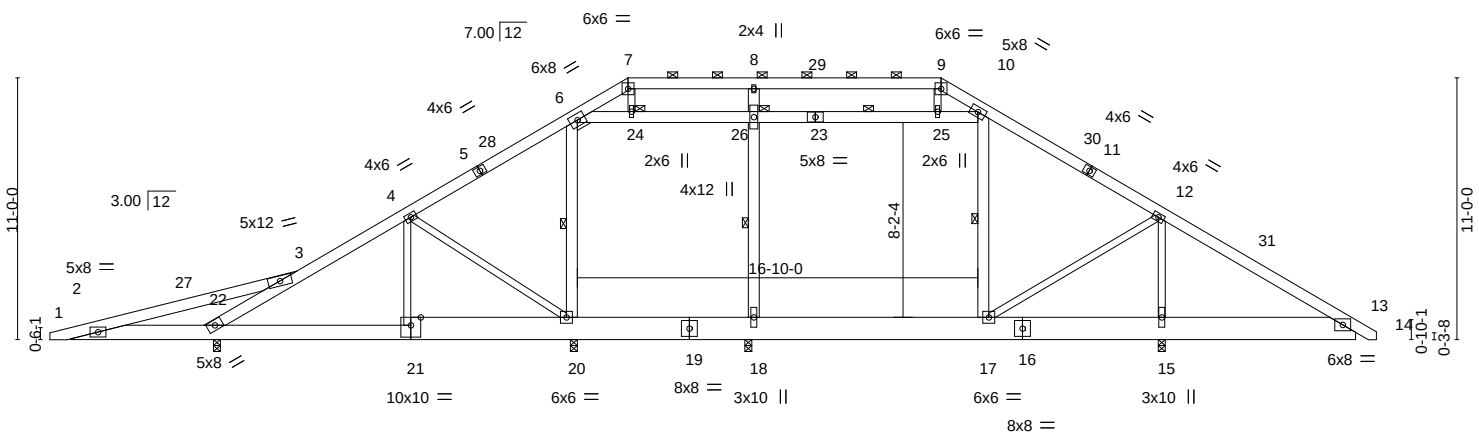
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A3	ROOF TRUSS	3	1	E16485967
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:26 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-sEPQD66MpD?awIWRXLtIYN4eLT25bzASf9xFdhy8mJe

-0-10-8	9-6-0	14-1-12	23-5-1	30-0-0	36-6-15	38-4-4	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	1-9-5	7-6-0	8-1-12	0-10-8

Scale: 1/8"=1'



6-0-0	14-1-12	21-1-12	28-5-12	38-4-4	45-10-4	46-0-0	54-0-0
6-0-0	8-1-12	7-0-0	7-4-0	9-10-8	7-6-0	0-1-12	8-0-0

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	0.41	Vert(LL)	-0.03	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.07	17-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	-0.02	21-22	>999	240	Weight: 529 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x12 SP 2400F 2.0E *Except*
2-21: 2x8 SP No.1, 19-21: 2x12 SP No.1
WEBS 2x6 SP No.1 *Except*
4-20,12-17,12-15,4-21,7-24,9-25: 2x4 SP No.2, 6-6: 2x4 SP No.3

BRACING-
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 Rigid ceiling directly applied or 6-0-0 oc bracing.
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-
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) -0-6-3 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
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). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).6-20, 10-17, 18-26
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
8) 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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

December 15,2021

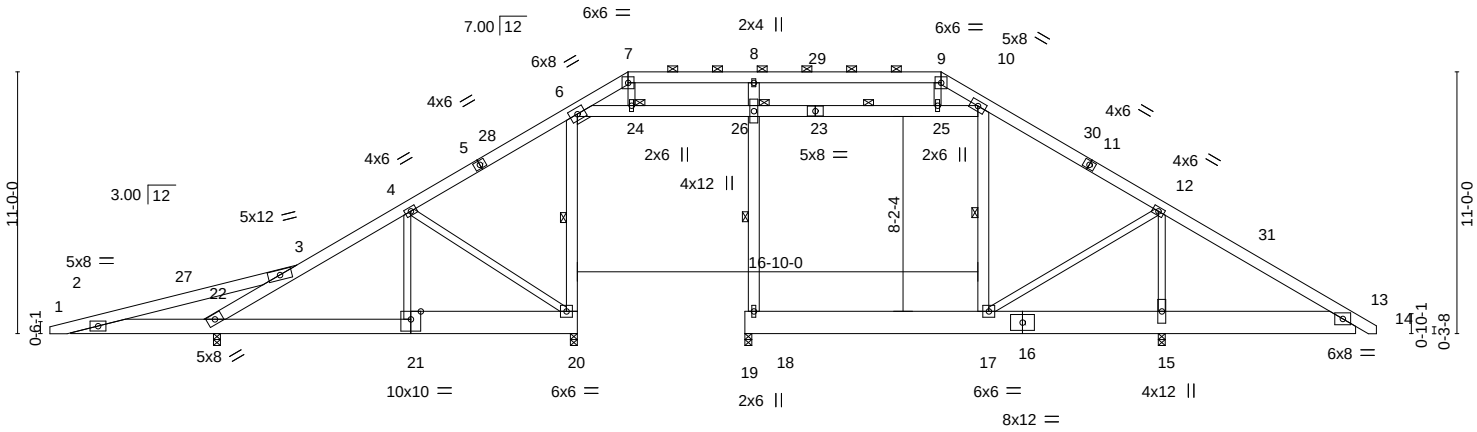
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A3X	ROOF TRUSS	0	1	E16485968 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:27 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-pdWBeo7cLqGI9cfpemvmdo9_pHkA3nIl6TQLiby8mJc

-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'



6-0-0	14-1-12	21-1-12	28-5-12	38-4-4	45-10-4	46-0-0	54-0-0
6-0-0	8-1-12	7-0-0	7-4-0	9-10-8	7-6-0	0-1-12	8-0-0

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	0.41	Vert(LL)	-0.21	17-18	>982	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.42	17-18	>493	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.48	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	-0.09	17	>999	240	Weight: 495 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x12 SP 2400F 2.0E *Except*
2-21: 2x8 SP No.1, 20-21: 2x12 SP No.1
WEBS 2x6 SP No.1 *Except*
4-20,12-17,12-15,4-21,7-24,9-25: 2x4 SP No.2, 6-6: 2x4 SP No.3

BRACING-
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 Rigid ceiling directly applied or 6-0-0 oc bracing.
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-
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) -0-6-3 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
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). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).10-17, 18-26
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18
8) 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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

December 15,2021

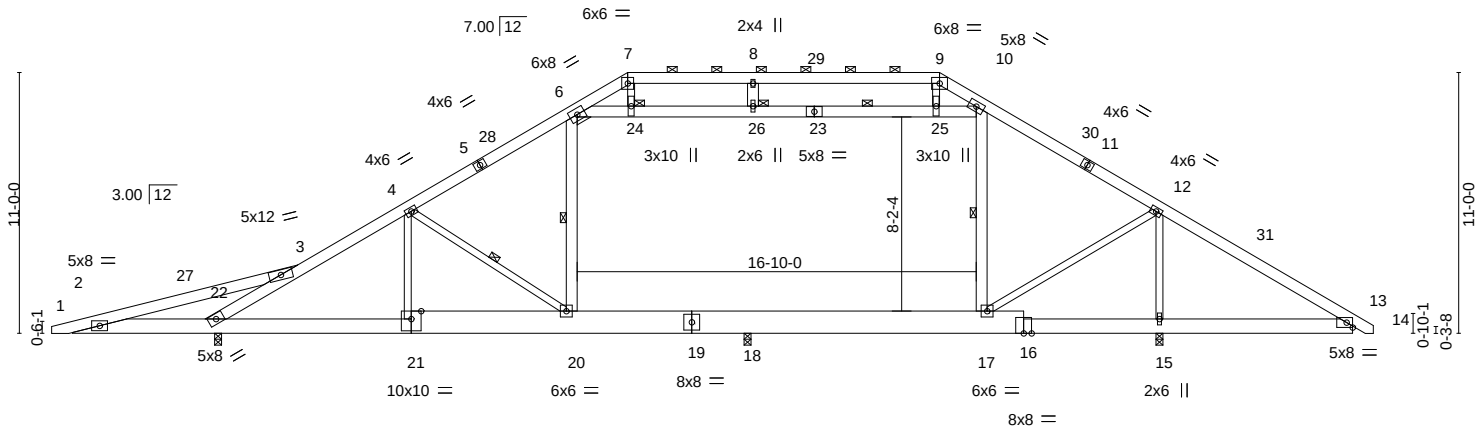
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A4	ROOF TRUSS	3	1	E16485969 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:28 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-Hp4Zr88F68O9nmE?CUR?A?i92h_ioGeuL79vE1y8mJb

-0-10-8	9-6-0	14-1-12	23-5-1	30-0-0	36-6-15	38-4-4	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	1-9-5	7-6-0	8-1-12	0-10-8

Scale = 1:97.2



6-0-0	14-1-12	21-1-12	28-5-12	38-4-4	45-10-4	46-0-0	54-0-0
6-0-0	8-1-12	7-0-0	7-4-0	9-10-8	7-6-0	0-1-12	8-0-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.24	20-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.50	20-21	>543	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.21	20-21	>999	240	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, 6-6: 2x4 SP No.3

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-

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) -0-6-3 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
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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) 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
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 22.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

December 15,2021

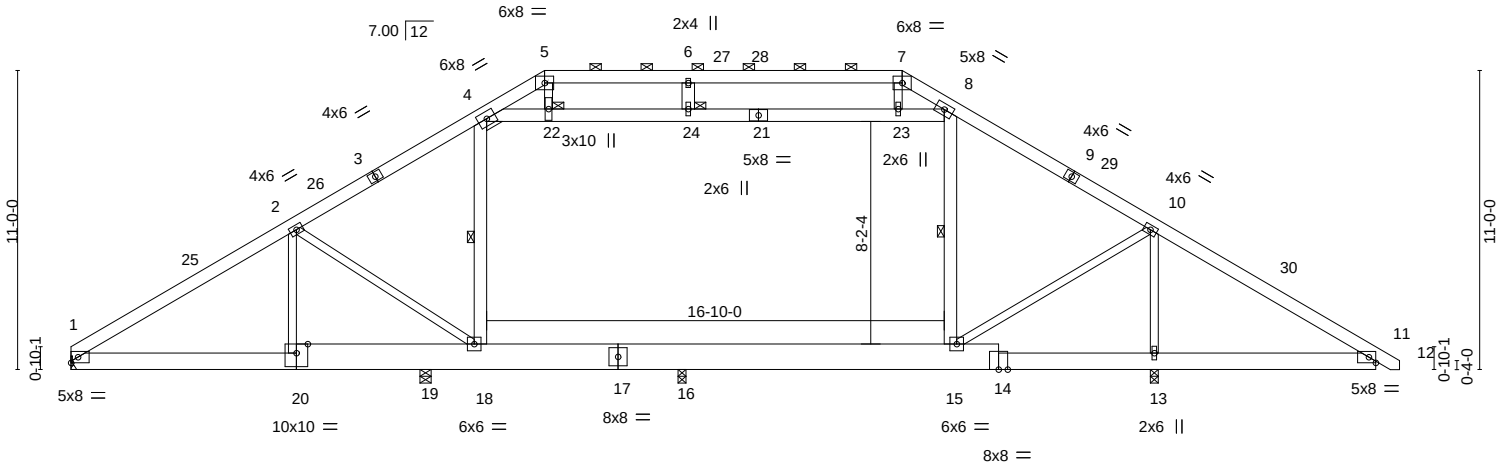
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A5	ROOF TRUSS	1	1	E16485970
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:29 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-I?ex3U9ttSW?OvpCmByEjDFJg4TsXk22anvSmTy8mJa

8-1-12	13-0-8	15-0-12	17-5-1	22-5-12	24-0-0	30-6-15	32-4-4	35-2-9	39-10-4	48-0-0	48-10-8
8-1-12	4-10-12	2-0-4	2-4-5	5-0-11	1-6-4	6-6-15	1-9-5	2-10-5	4-7-11	8-1-12	0-10-8

Scale = 1:84.8



8-1-12	13-0-8	15-0-12	22-4-0	32-4-4	39-10-4	48-0-0
8-1-12	4-10-12	2-0-4	7-3-4	10-0-4	7-6-0	8-1-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.04	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.07	15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	1-20	>999	240	Weight: 442 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
14-17,17-20: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15,8-21,4-18,6-24,4-21: 2x6 SP No.1, 4-4: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except 2-0-0 oc purlins (5-7-1 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15,11-13.
WEBS 1 Row at midpt 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 8)
Max Uplift All uplift 100 lb or less at joint(s) except 19=-103(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=890(LC 21), 13=2168(LC 25), 19=1148(LC 20), 16=1387(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1367/0, 2-4=-1075/46, 4-5=-1659/339, 5-6=-1417/296, 6-7=-1417/296, 7-8=-1566/321, 8-10=-1038/0, 10-11=-471/677
BOT CHORD 1-20=0/1047, 19-20=0/1049, 18-19=0/1044, 16-18=0/825, 15-16=0/825, 13-15=-468/495, 11-13=-468/488
WEBS 2-18=-475/203, 10-13=-1938/405, 8-15=-592/241, 10-15=-51/1408, 4-22=-315/747, 22-24=-317/798, 23-24=-317/798, 8-23=-329/732, 5-22=-92/578, 7-23=-3/365, 4-18=-640/357

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 103 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.

December 15,2021

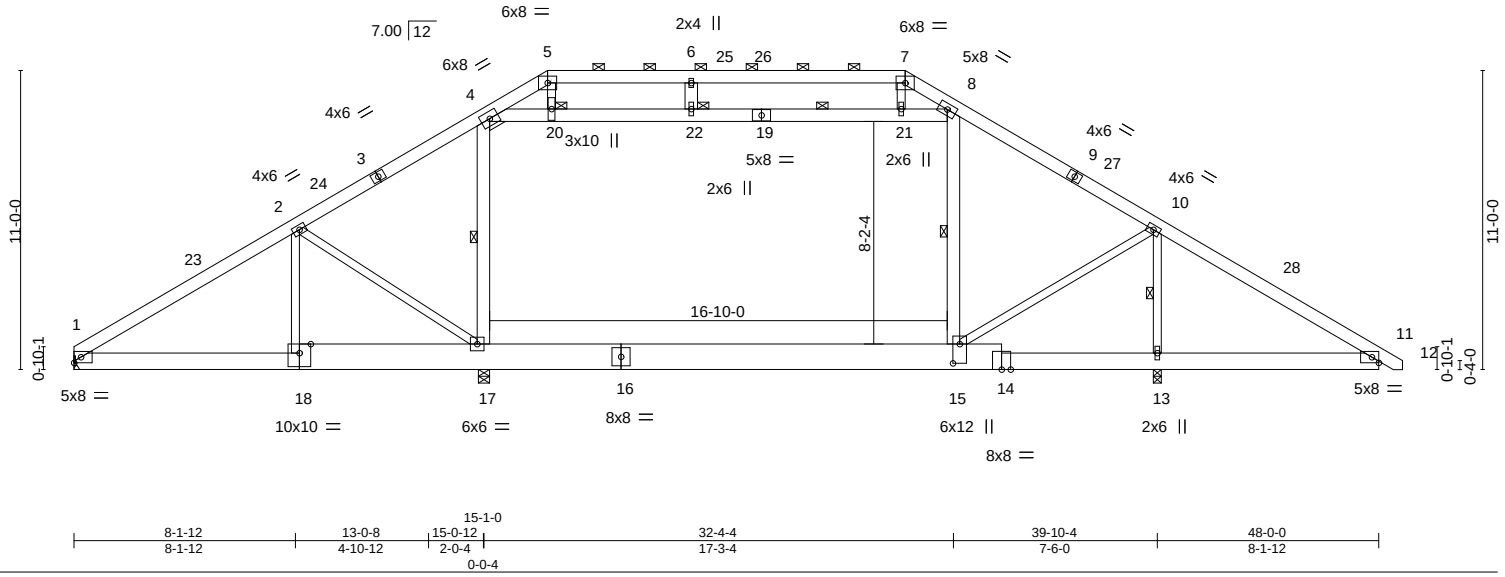
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A6	ROOF TRUSS	1	1	E16485971 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:30 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-DCCJGqAVeles03OOJvTTFQnTNUhJGDKBpRe0Jwy8mJZ

8-1-12	13-0-8	15-0-12	17-5-1	22-5-12	24-0-0	30-6-15	32-4-4	35-2-9	39-10-4	48-0-0	48-10-8
8-1-12	4-10-12	2-0-4	2-4-5	5-0-11	1-6-4	6-6-15	1-9-5	2-10-5	4-7-11	8-1-12	0-10-8

Scale = 1:84.8



8-1-12	13-0-8	15-0-12	15-1-0	32-4-4	39-10-4	48-0-0
8-1-12	4-10-12	2-0-4	0-0-4	17-3-4	7-6-0	8-1-12

Plate Offsets (X,Y)-- [15:0-8-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.27	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	15-17	>725	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.01	15	>999	240	Weight: 442 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
14-16,16-18: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1, 4-4: 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 17=0-4-15, 13=0-3-8
Max Horz 1=-253(LC 8)
Max Grav 1=1075(LC 21), 17=1777(LC 20), 13=2575(LC 27)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-13 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 10-13, 8-15, 8-22, 4-17
JOINTS 1 Brace at Jt(s): 20, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1690/0, 2-4=-1600/0, 4-5=-1682/325, 5-6=-1447/280, 6-7=-1447/280, 7-8=-1599/304, 8-10=-1563/0, 10-11=-460/698
BOT CHORD 1-18=0/1373, 17-18=0/1371, 15-17=0/1273, 13-15=-484/489, 11-13=-484/478
WEBS 2-18=-320/182, 2-17=-504/330, 10-13=-2556/278, 8-15=-466/297, 10-15=0/1994, 4-20=-402/584, 20-22=-403/636, 21-22=-403/636, 8-21=-418/568, 5-20=-91/588, 7-21=0/398, 4-17=-539/410

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). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s).8-15, 4-17
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
8) Refer to girder(s) for truss to truss connections.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

December 15,2021

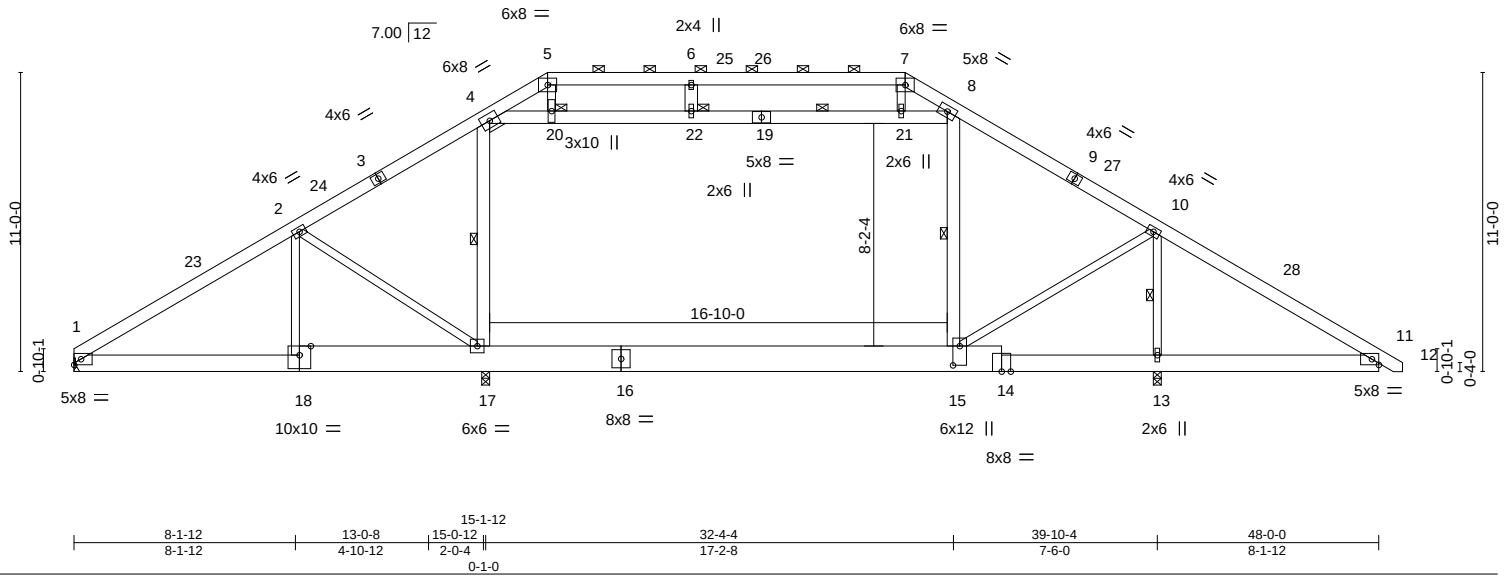
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A7	ROOF TRUSS	1	1	E16485972
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:31 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-hOmhUAA7P3mjeDzatc_ioeKe6u1X?gZL15OZrMy8mJY

8-1-12	13-0-8	15-0-12	17-5-1	22-5-12	24-0-0	30-6-15	32-4-4	35-2-9	39-10-4	48-0-0	48-10-8
8-1-12	4-10-12	2-0-4	2-4-5	5-0-11	1-6-4	6-6-15	1-9-5	2-10-5	4-7-11	8-1-12	0-10-8

Scale = 1:84.8



8-1-12	13-0-8	15-0-12	15-1-12	32-4-4	39-10-4	48-0-0
8-1-12	4-10-12	2-0-4	0-1-0	17-2-8	7-6-0	8-1-12

Plate Offsets (X,Y)-- [15:0-8-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.27	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	15-17	>725	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.01	15	>999	240	Weight: 442 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
14-16,16-18: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1, 4-4: 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 17=0-3-8, 13=0-3-8
Max Horz 1=-253(LC 8)
Max Grav 1=1075(LC 21), 17=1777(LC 20), 13=2575(LC 27)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-13 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 10-13, 8-15, 8-22, 4-17
JOINTS 1 Brace at Jt(s): 20, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1690/0, 2-4=-1600/0, 4-5=-1682/325, 5-6=-1447/280, 6-7=-1447/280, 7-8=-1599/304, 8-10=-1563/0, 10-11=-460/698
BOT CHORD 1-18=0/1373, 17-18=0/1371, 15-17=0/1273, 13-15=-484/489, 11-13=-484/478
WEBS 2-18=-320/182, 2-17=-504/330, 10-13=-2556/278, 8-15=-466/297, 10-15=0/1994, 4-20=-402/584, 20-22=-403/636, 21-22=-403/636, 8-21=-418/568, 5-20=-91/588, 7-21=0/398, 4-17=-539/410

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). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s).8-15, 4-17
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
8) Refer to girder(s) for truss to truss connections.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

December 15,2021

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

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A8	ROOF TRUSS	4	1	E16485973
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:33 2021 Page 1
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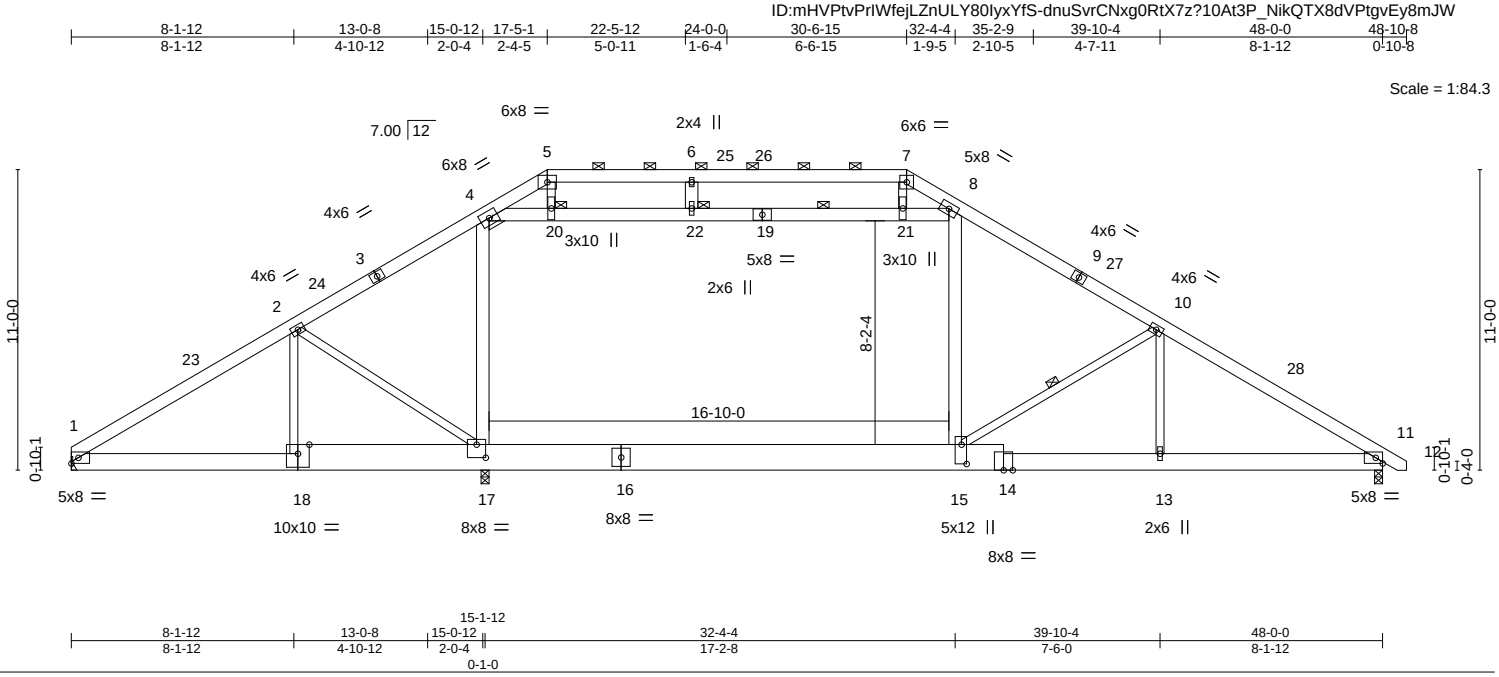


Plate Offsets (X,Y)-- [15:0-8-8,0-2-4], [17:0-4-0,0-5-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	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-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
14-16: 2x12 SP No.1, 16-18: 2x12 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1, 4-4: 2x4 SP No.3

BRACING-
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 Rigid ceiling directly applied or 9-6-0 oc bracing.
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-
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;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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) 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
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 17.
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.

December 15,2021

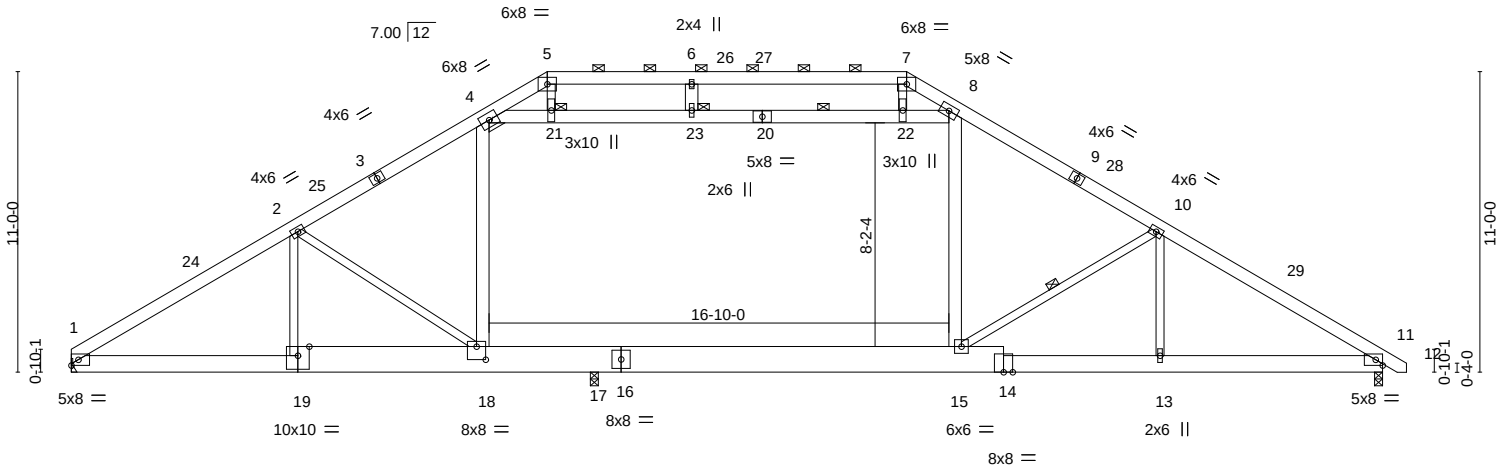
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A9	ROOF TRUSS	3	1	E16485974 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:34 2021 Page 1
ID:mHVPtvPrlWfejLZnULY80IyxYfS-6zRq6BD?i_8lVhi9YkXPQGy95548C?Cnj3cDShy8mJV

8-1-12	13-0-8	15-0-12	17-5-1	22-5-12	24-0-0	30-6-15	32-4-4	35-2-9	39-10-4	48-0-0	48-10-8
8-1-12	4-10-12	2-0-4	2-4-5	5-0-11	1-6-4	6-6-15	1-9-5	2-10-5	4-7-11	8-1-12	0-10-8

Scale = 1:84.3



8-1-12	13-0-8	15-0-12	19-0-0	30-6-15	32-4-4	39-10-4	48-0-0
8-1-12	4-10-12	2-0-4	3-11-4	11-6-15	1-9-5	7-6-0	8-1-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	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, 4-4: 2x4 SP No.3

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-
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;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). 4-21, 21-23, 22-23, 8-22; 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. 17-18, 15-17
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 17.
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.

December 15,2021

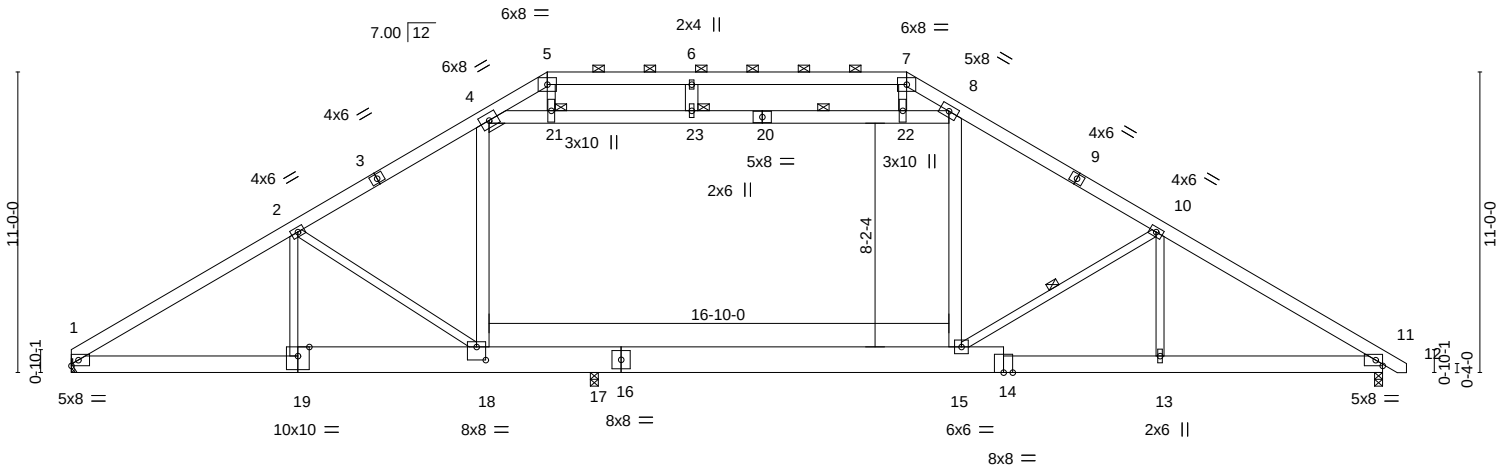
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	A9GE	ROOF TRUSS	1	1	E16485975 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:35 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-a9?CJXDeSIG96rHM6S3eyUVKrVQNxSSwyjMn_7y8mJU

8-1-12	13-0-8	15-0-12	17-5-1	22-5-12	24-0-0	30-6-15	32-4-4	35-2-9	39-10-4	48-0-0	48-10-8
8-1-12	4-10-12	2-0-4	2-4-5	5-0-11	1-6-4	6-6-15	1-9-5	2-10-5	4-7-11	8-1-12	0-10-8

Scale = 1:84.3



8-1-12	13-0-8	15-0-12	19-0-0	32-4-4	39-10-4	48-0-0
8-1-12	4-10-12	2-0-4	3-11-4	13-4-4	7-6-0	8-1-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	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)	0.16	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, 4-4: 2x4 SP No.3

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=-316(LC 8)
Max Uplift 1=-58(LC 13), 17=-119(LC 9), 11=-193(LC 13)
Max Grav 1=1956(LC 2), 17=1328(LC 20), 11=2282(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3329/396, 2-4=-3207/293, 4-5=-1867/437, 5-6=-1647/394, 6-7=-1647/394, 7-8=-1825/438, 8-10=-3225/304, 10-11=-3781/376
BOT CHORD 1-19=-207/2739, 18-19=-206/2739, 17-18=0/2685, 15-17=0/2685, 13-15=-185/3106, 11-13=-185/3106
WEBS 2-19=-259/231, 2-18=-559/540, 10-13=0/382, 8-15=0/882, 10-15=-719/370, 4-21=-1602/214, 21-23=-1561/216, 22-23=-1561/216, 8-22=-1642/217, 5-21=-107/654, 7-22=-44/520, 4-18=-97/865

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) 0-1-4 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
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). 4-21, 21-23, 22-23, 8-22; 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. 17-18, 15-17
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 119 lb uplift at joint 17 and 193 lb uplift at joint 11.
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.

December 15,2021

ENGINEERING BY TRENCO
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Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	B1	QUEENPOST	2	1	E16485976
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:35 2021 Page 1
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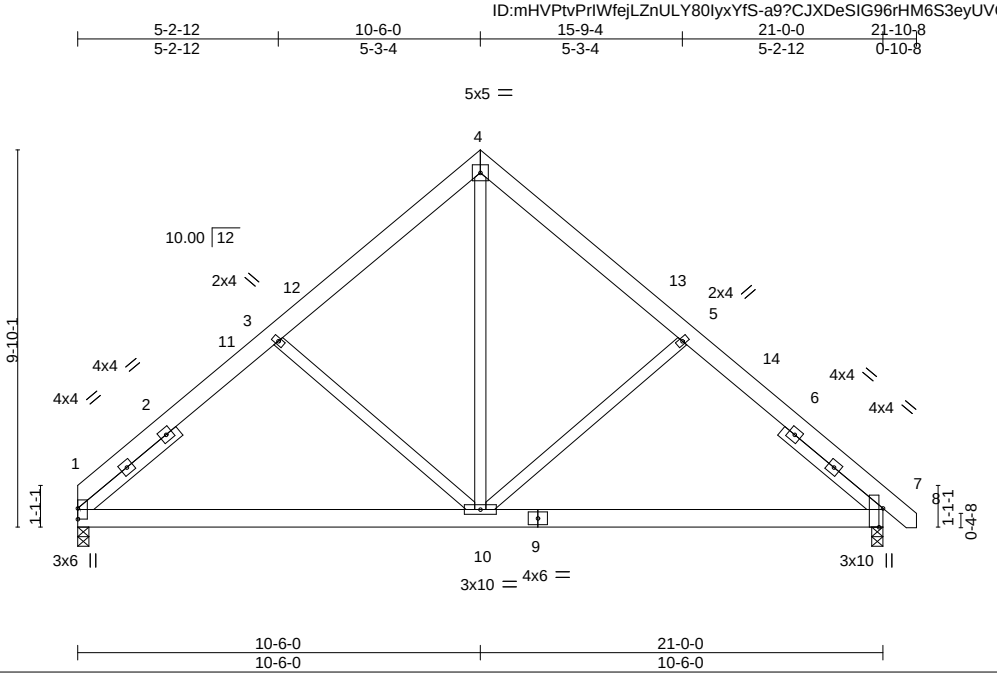

Plate Offsets (X,Y)-- [7:0-5-14,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.06	1-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	1-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	10	>999	240	Weight: 160 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.3 3-4-3, Right 2x4 SP No.3 3-4-3

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) 7=0-3-8, 1=0-3-8
Max Horz 1=-224(LC 8)
Max Uplift 7=-44(LC 13), 1=-34(LC 12)
Max Grav 7=885(LC 1), 1=839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-983/269, 3-4=-796/274, 4-5=-796/270, 5-7=-983/263
BOT CHORD 1-10=-85/738, 7-10=-79/669
WEBS 3-10=-329/237, 4-10=-169/676, 5-10=-331/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-6-0, Exterior(2) 10-6-0 to 14-10-13, Interior(1) 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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7 and 34 lb uplift at joint 1.

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Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	B1GE	GABLE	1	1	E16485977
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:36 2021 Page 1
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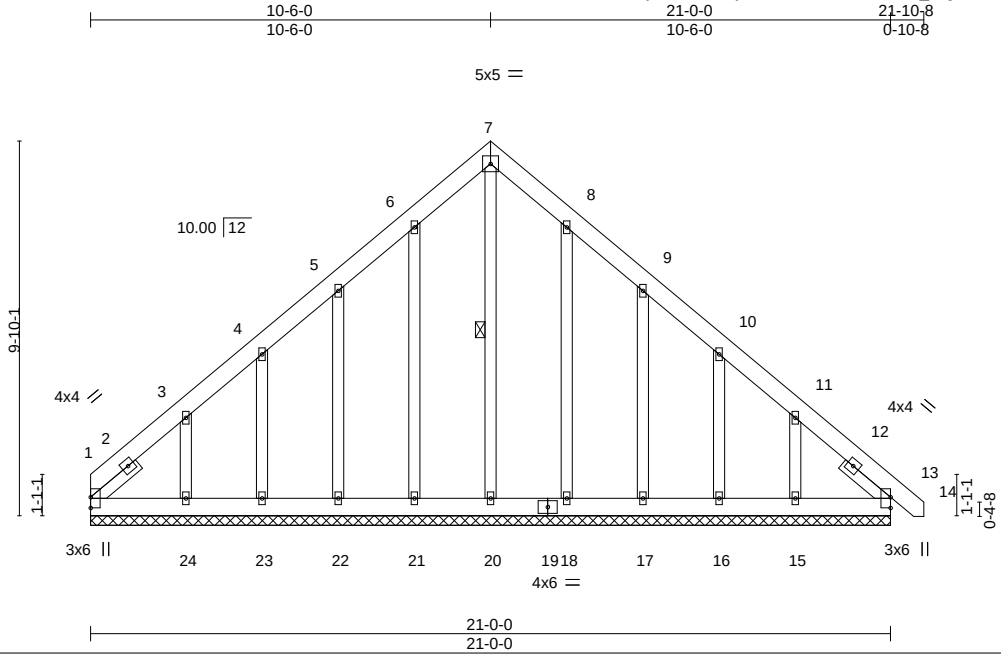

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014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

December 15,2021

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Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	B1GR	FINK	1	3	E16485978
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:38 2021 Page 1
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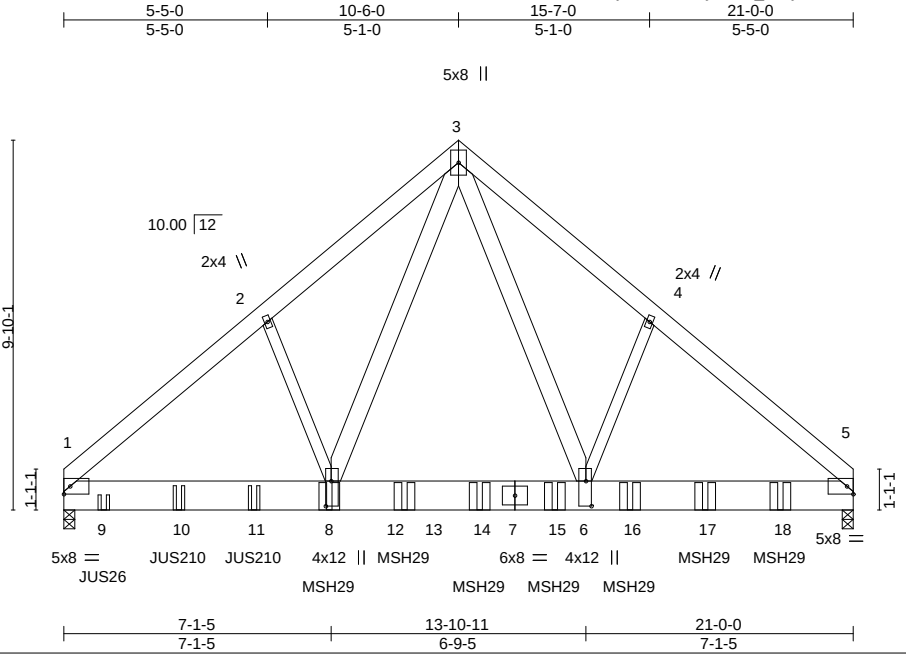

Plate Offsets (X,Y)-- [6:0-8-0,0-1-12], [8:0-8-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	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 4)
Max Grav 1=8620(LC 2), 5=10003(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-10560/0, 2-3=-10221/0, 3-4=-11050/0, 4-5=-11397/0
BOT CHORD 1-8=0/7664, 6-8=0/5692, 5-6=0/8292
WEBS 2-8=-57/585, 3-8=0/6144, 3-6=0/7976, 4-6=-49/608

NOTES-
1) 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 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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.
8) 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.
9) 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.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) 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

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-1956(F) 9=-813(F) 10=-950(F) 11=-950(F) 13=-1956(F) 14=-1956(F) 15=-1956(F) 16=-1922(F) 17=-1922(F) 18=-1922(F)

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	G1	QUEENPOST	5	1	E16485979
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:38 2021 Page 1
ID:mHVPtvPrlWfejLZnULY80IyxYfS-_khLyZGWlDekzI?wnacLa66t6jZw8yQNehaRbSy8mJR

-0-10-8	5-1-8	10-0-0	14-10-8	20-0-0	20-10-8
0-10-8	5-1-8	4-10-8	4-10-8	5-1-8	0-10-8

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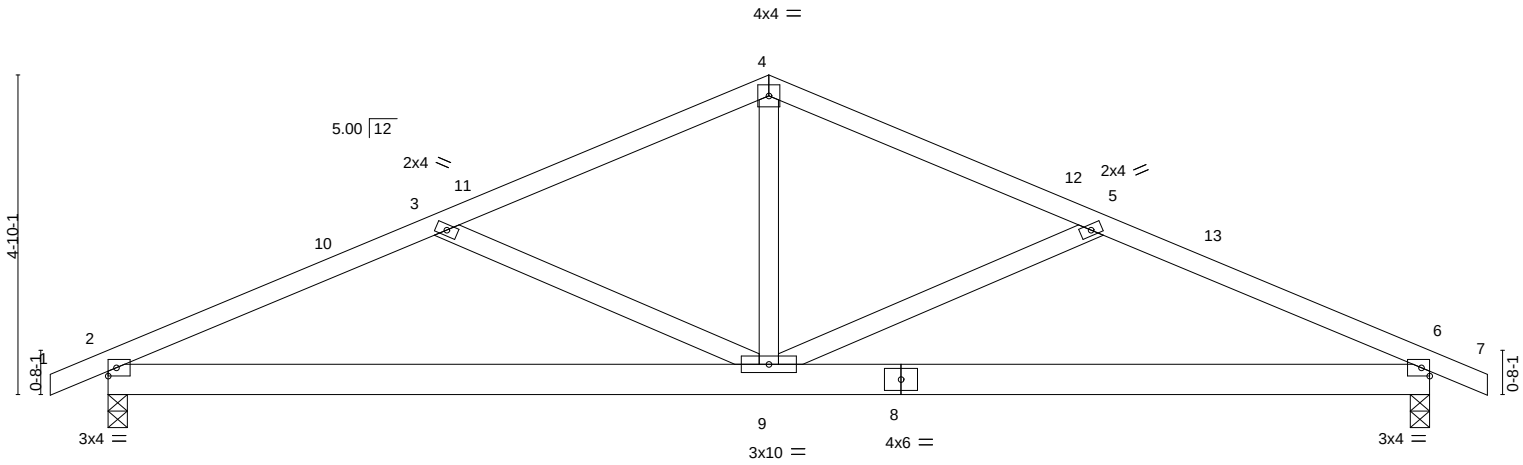

10-0-0	20-0-0
10-0-0	10-0-0

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	0.34	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-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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.

December 15,2021

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Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	G1GE	GABLE	1	1	E16485980
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:39 2021 Page 1
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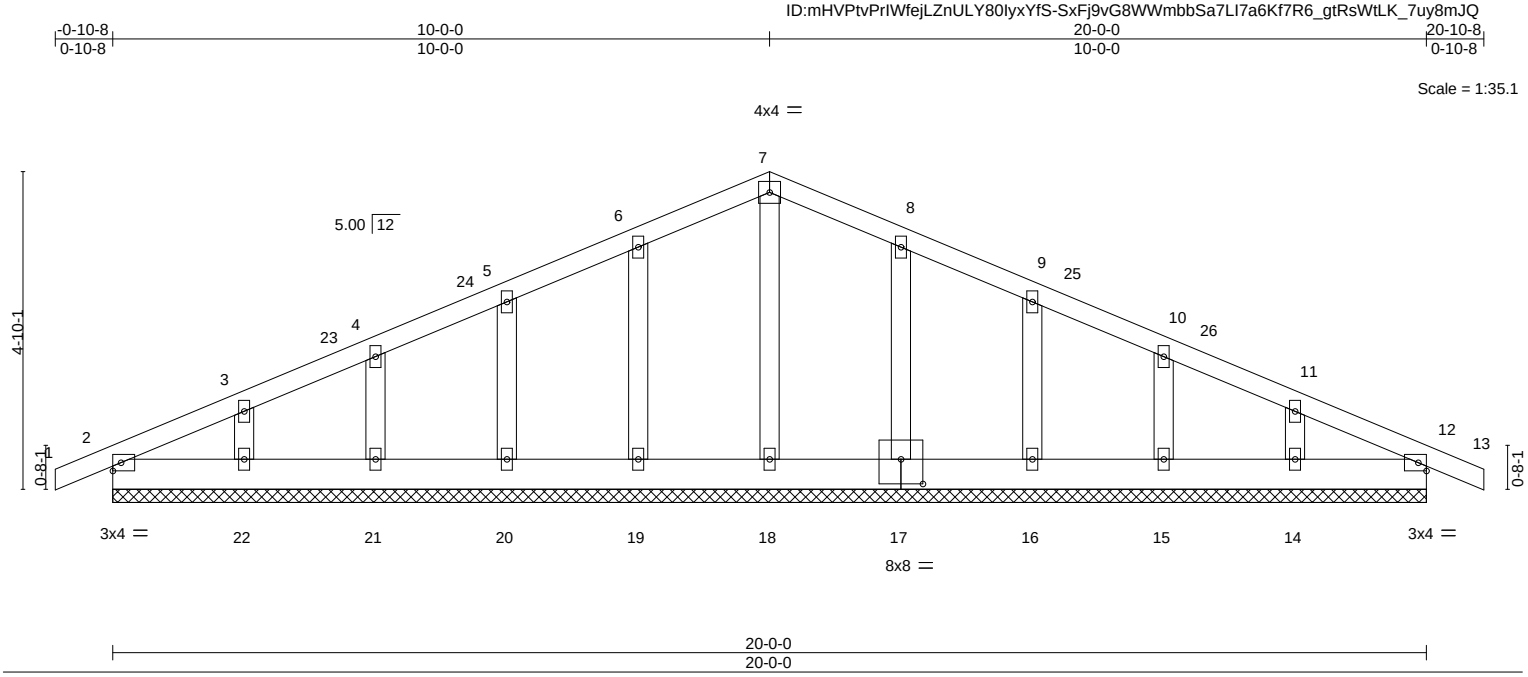

Plate Offsets (X,Y)-- [17:0-4-0,0-4-8]

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-
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) -0-10-8 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.

December 15,2021

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

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	PB	PIGGYBACK	22	1	E16485981
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:41 2021 Page 1
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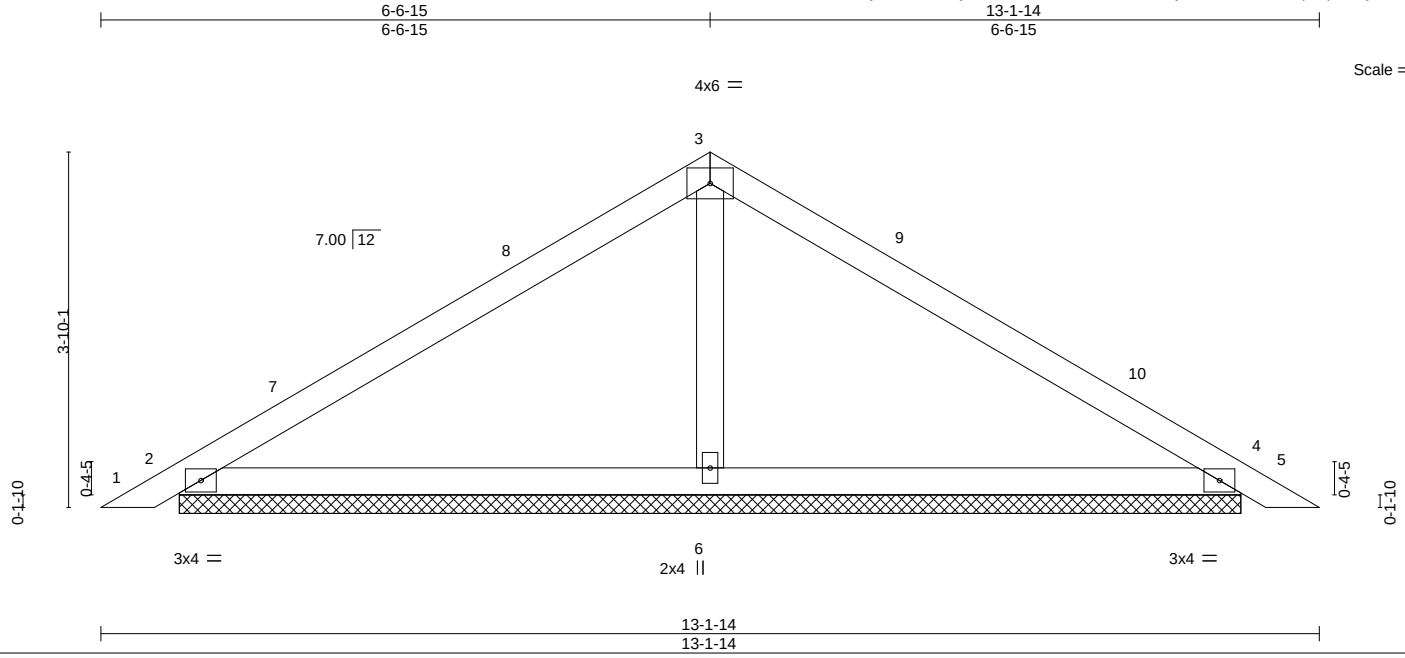

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.02	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	0.03	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							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-
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) 0-3-8 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
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

December 15,2021

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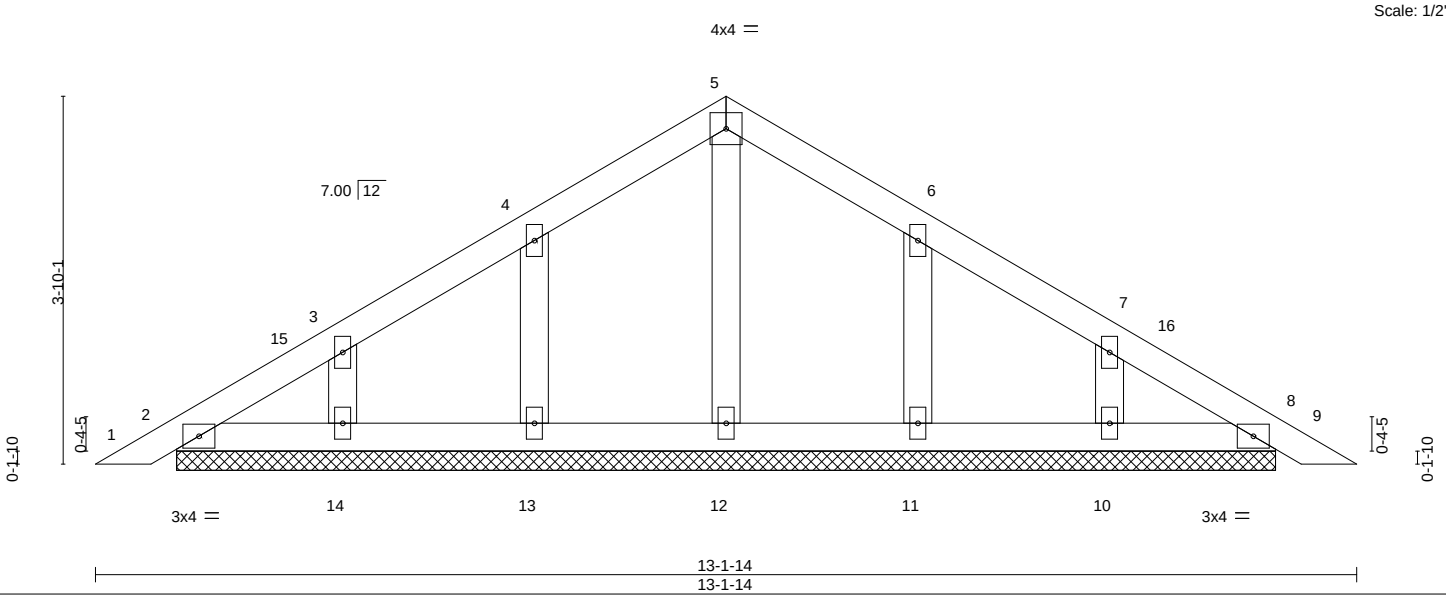
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	PBGE	GABLE	2	1	E16485982
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:42 2021 Page 1
ID:mHVPtvPrlWfejLZnULY80IyxYfS-tWwsnwJ1pR99SvJi0QhHkyHewK?E4nqyZJYekDy8mJN

6-6-15 | 13-1-14
6-6-15 | 6-6-15

Scale: 1/2"=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	0.03	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-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

December 15,2021

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB1	VALLEY	1	1	E16485983
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:43 2021 Page 1
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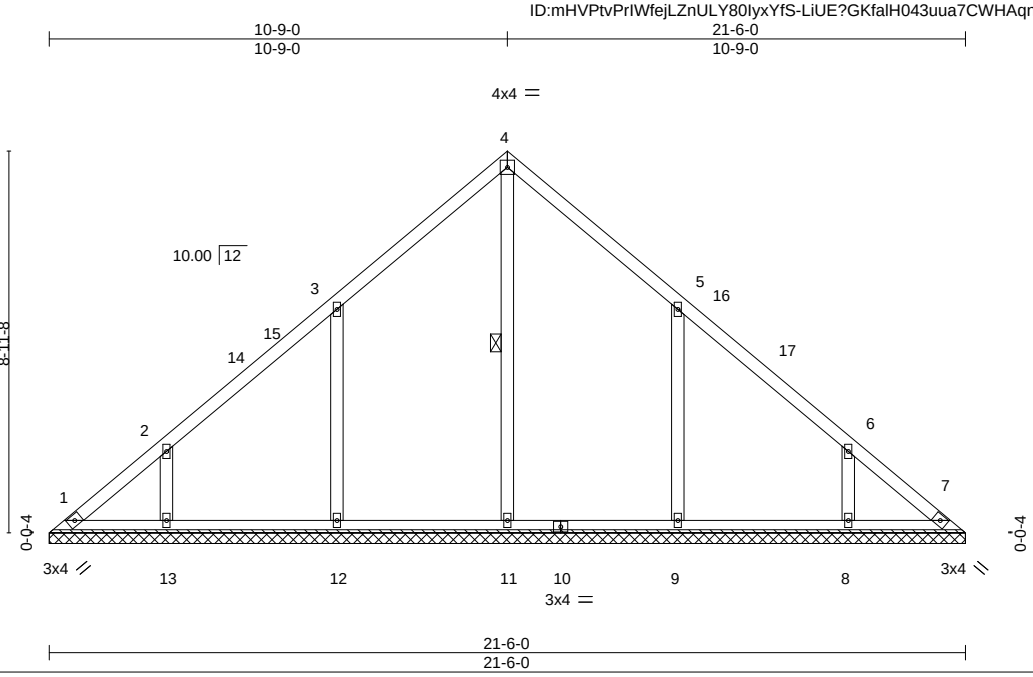

Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)		SPACING-	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	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 105 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 21-6-0.
(lb) - Max Horz 1=-207(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-140(LC 12), 13=-108(LC 12), 9=-140(LC 13), 8=-108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=446(LC 22), 12=472(LC 19), 13=295(LC 19), 9=472(LC 20), 8=295(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-356/253, 2-13=-284/214, 5-9=-356/253, 6-8=-284/214

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-9-0, Exterior(2) 10-9-0 to 15-1-13, Interior(1) 15-1-13 to 21-1-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=140, 13=108, 9=140, 8=108.

December 15,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB2	VALLEY	1	1	E16485984
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:44 2021 Page 1
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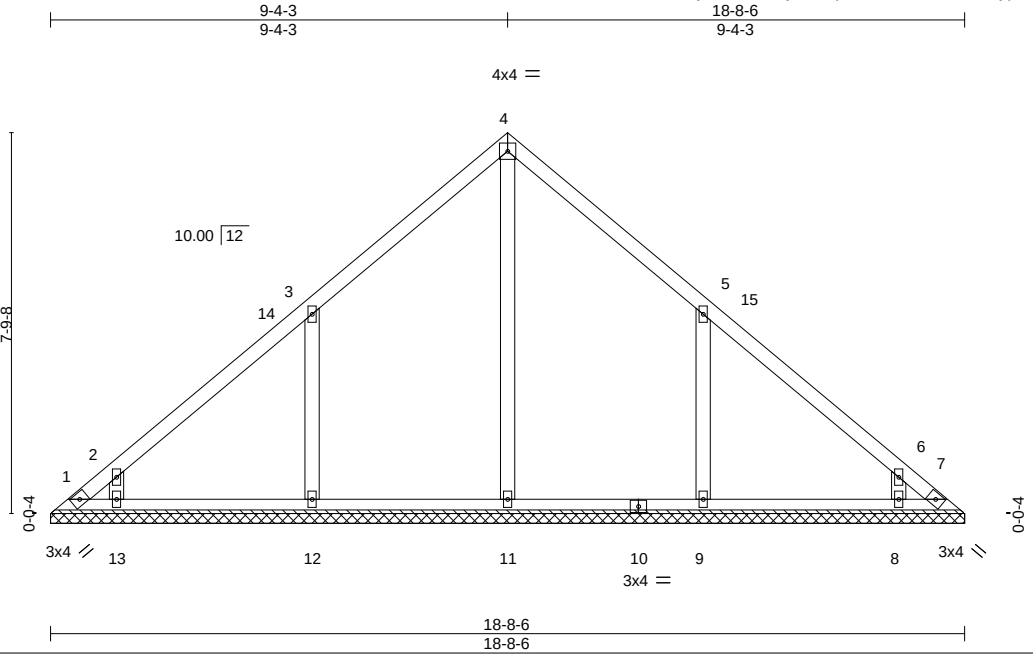

Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 86 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 18-8-6.
(lb) - Max Horz 1=-179(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-124(LC 10), 12=-141(LC 12), 13=-104(LC 12), 9=-141(LC 13), 8=-104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=434(LC 22), 12=474(LC 19), 13=279(LC 19), 9=474(LC 20), 8=279(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-356/255, 2-13=-288/233, 5-9=-356/254, 6-8=-288/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-4-3, Exterior(2) 9-4-3 to 13-9-0, Interior(1) 13-9-0 to 18-3-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=124, 12=141, 13=104, 9=141, 8=104.

December 15,2021

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

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB3	VALLEY	1	1	E16485985 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:44 2021 Page 1
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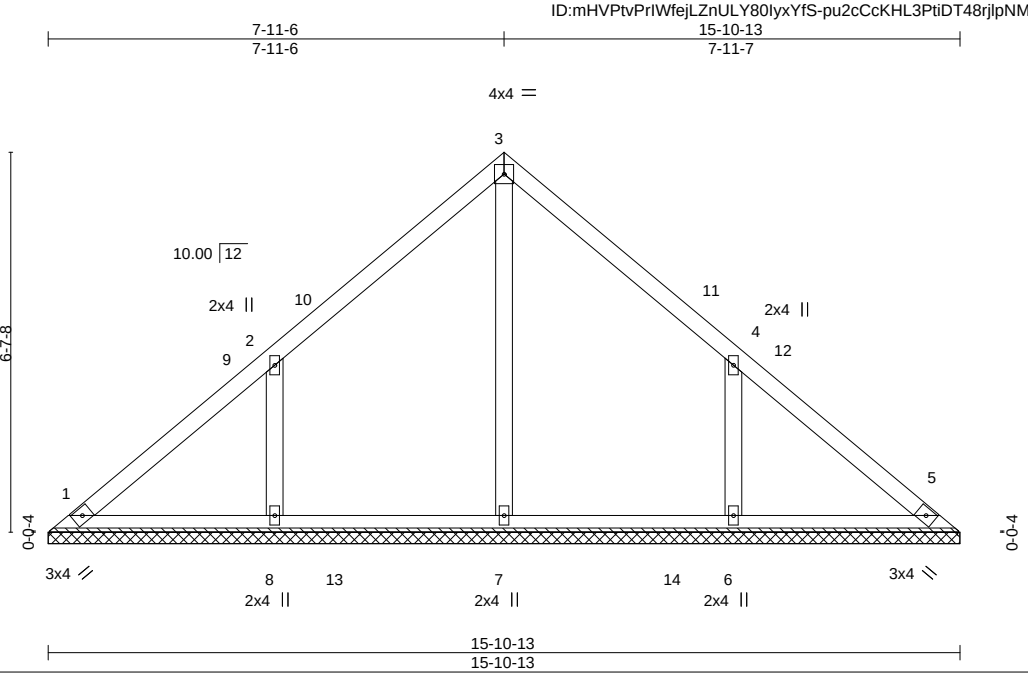

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

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	0.16	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	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 70 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 15-10-13.
(lb) - Max Horz 1=-151(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-144(LC 12), 6=-144(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=412(LC 19), 8=437(LC 19), 6=437(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-360/256, 4-6=-360/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-11-6, Exterior(2) 7-11-6 to 12-4-3, Interior(1) 12-4-3 to 15-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=144, 6=144.

December 15,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB4	VALLEY	1	1	E16485986
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:45 2021 Page 1
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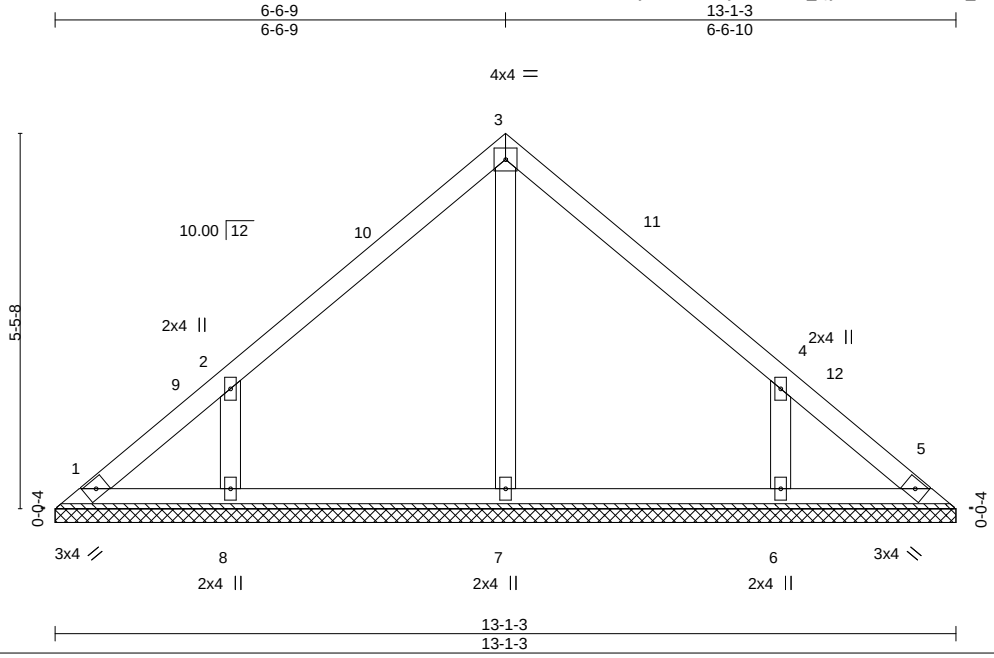

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%

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

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

REACTIONS. All bearings 13-1-3.
(lb) - Max Horz 1=-123(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-125(LC 12), 6=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=332(LC 19), 6=332(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-315/239, 4-6=-315/239

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-6-9, Exterior(2) 6-6-9 to 10-11-6, Interior(1) 10-11-6 to 12-8-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=125, 6=125.

December 15,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB5	VALLEY	1	1	E16485987
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:46 2021 Page 1
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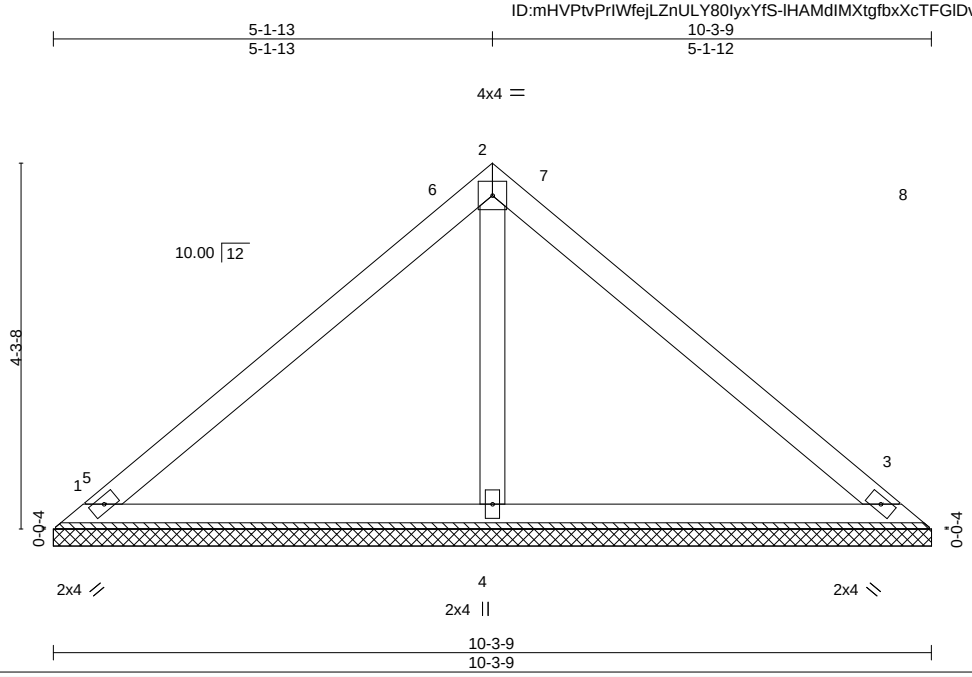


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%

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

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

REACTIONS. (size) 1=10-3-9, 3=10-3-9, 4=10-3-9
Max Horz 1=95(LC 11)
Max Uplift 1=-22(LC 13), 3=-31(LC 13)
Max Grav 1=203(LC 1), 3=203(LC 1), 4=354(LC 1)

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

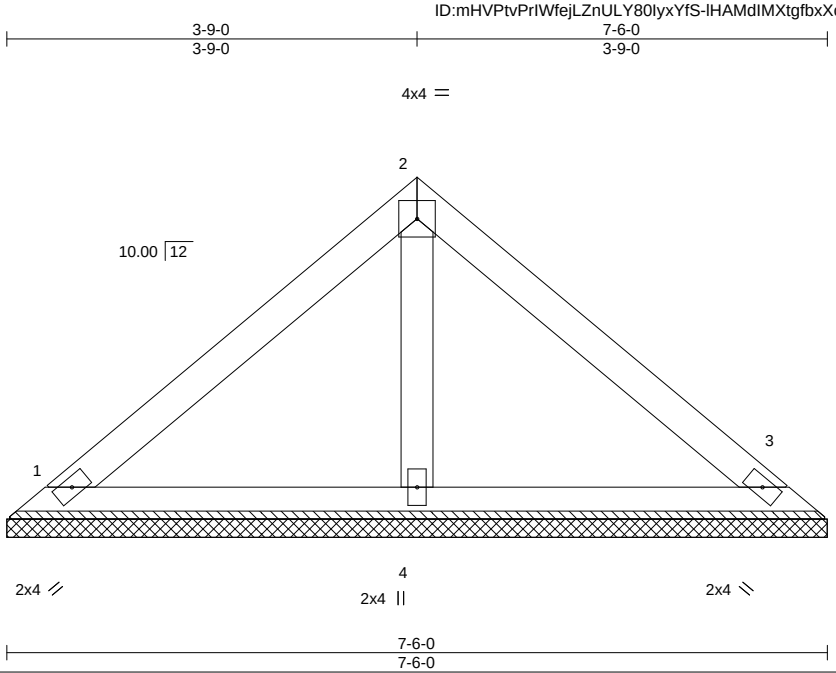
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-1-13, Exterior(2) 5-1-13 to 9-6-9, Interior(1)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

December 15,2021

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

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB6	VALLEY	1	1	E16485988
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:46 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80lyxYfS-lHAMdIMXtgfbxXcTFGlDvoSHvxMB0blYUwWst_y8mJJ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-6-0, 3=7-6-0, 4=7-6-0
Max Horz 1=-67(LC 8)
Max Uplift 1=-23(LC 13), 3=-29(LC 13)
Max Grav 1=155(LC 1), 3=155(LC 1), 4=226(LC 1)

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

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

December 15,2021

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TRENCO
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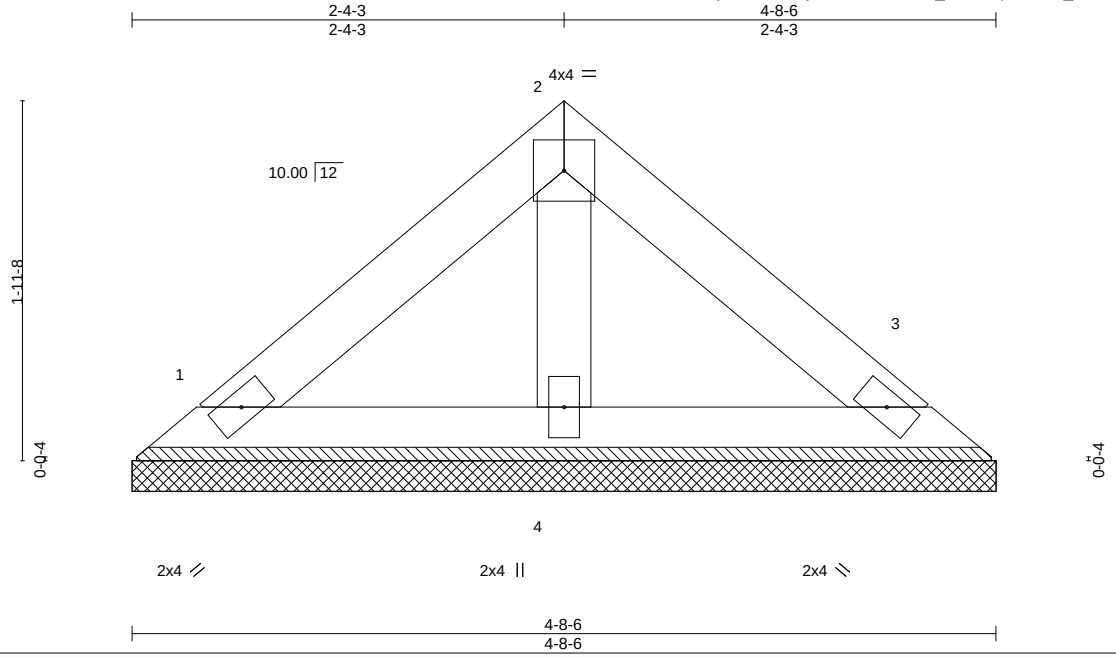
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB7	VALLEY	1	1	E16485989
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:47 2021 Page 1
ID:mHVPtvPrIWfejLZnULY80IyxYfS-DTklreN9e_nSZhBfpzGSR0_UOLiHl2ChjaGPPRy8mJI



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 16 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 4-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-8-6, 3=4-8-6, 4=4-8-6
Max Horz 1=39(LC 11)
Max Uplift 1=-14(LC 13), 3=-17(LC 13)
Max Grav 1=90(LC 1), 3=90(LC 1), 4=131(LC 1)

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

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

December 15,2021

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Job	Truss	Truss Type	Qty	Ply	Regency Homes / 1 Avery Pointe / Harnett
J0222-0515	VB8	VALLEY	1	1	E16485990
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 09:13:47 2021 Page 1
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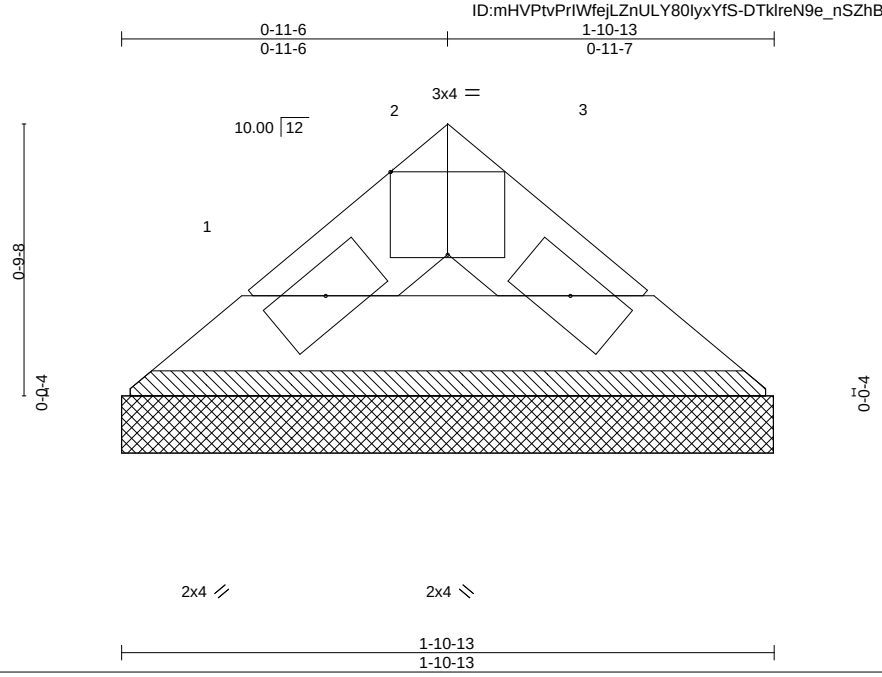

Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.00	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	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: 5 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 1-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-10-13, 3=1-10-13
Max Horz 1=-11(LC 8)
Max Uplift 1=-2(LC 12), 3=-2(LC 13)
Max Grav 1=44(LC 1), 3=44(LC 1)

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

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

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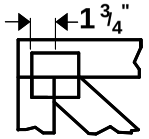
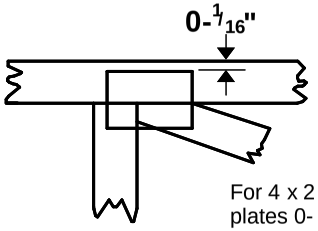
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

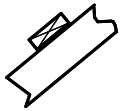
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

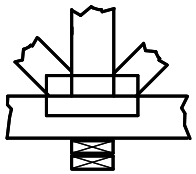
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

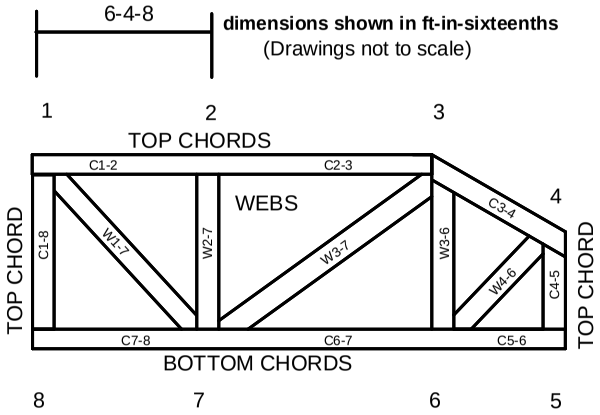


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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