ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: MasterFrench
Mattamy-Sequoia-Lot 65 Providence Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I54953360 thru I54953390

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

North Carolina COA: C-0844

October 27,2022

Gilbert, Eric

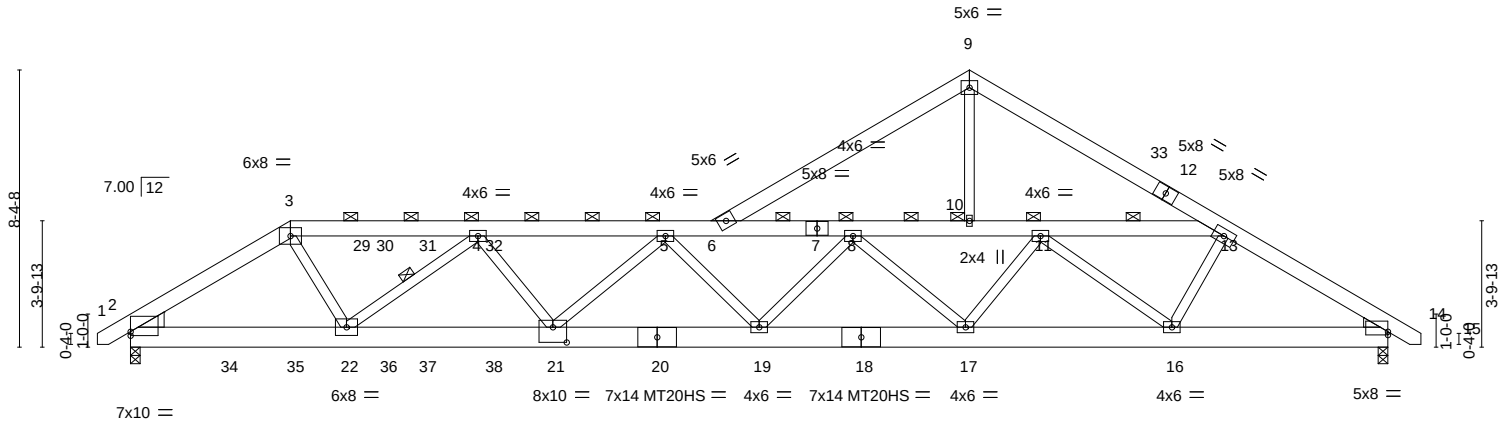
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A01-1PL	HIP	1	1	I54953360
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:32 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-r9pJgbhWvZmWx0WGKevAExEBtdT8hVOTRcHo9myPFBj

-1-0-0	4-10-0	10-6-0	16-2-0	21-10-0	25-4-4	27-6-0	33-2-0	38-0-0	39-0-0
1-0-0	4-10-0	5-8-0	5-8-0	5-8-0	3-6-4	2-1-12	5-8-0	4-10-0	1-0-0

Scale = 1:69.6



6-6-5	12-9-3	19-0-0	25-2-13	31-5-11	38-0-0
6-6-5	6-2-13	6-2-13	6-2-13	6-2-13	6-6-5

Plate Offsets (X,Y)-- [2:0-0-0,0-1-7], [14:0-0-0,0-1-3], [21:0-5-0,0-5-8]

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	0.67	Vert(LL)	-0.30	19-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.59	19-21	>776	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.11	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	19-21	>999	240	Weight: 325 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
3-7: 2x6 SP DSS
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2 , Right: 2x4 SP No.3

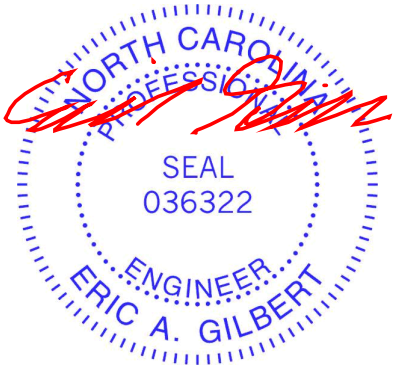
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except
2-0-0 oc purlins (2-10-0 max.): 3-13. Except:
1 Row at midpt 6-8, 8-10, 11-13
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-22
JOINTS 1 Brace at Jt(s): 8, 11, 10

REACTIONS. (size) 2=0-3-8 (req. 0-3-9), 14=0-3-8
Max Horz 2=-155(LC 25)
Max Grav 2=2998(LC 1), 14=2132(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4639/0, 3-4=-4899/0, 4-5=-8148/0, 5-6=-7177/0, 6-8=-6280/0, 8-10=-4200/0, 10-11=-4200/0, 11-13=-2295/0, 9-13=-1147/0, 13-14=-3351/0, 6-9=-1116/0
BOT CHORD 2-22=0/3890, 21-22=0/7167, 19-21=0/8049, 17-19=0/6206, 16-17=0/4225, 14-16=0/2806
WEBS 3-22=0/2202, 4-22=-2944/0, 4-21=0/1731, 5-21=-449/547, 5-19=-1360/0, 8-19=0/1515, 8-17=-1576/0, 11-17=0/1545, 11-16=-1358/0, 13-16=0/926, 9-10=0/534

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates 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 20.0psf 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) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 84 lb up at 4-10-0, 114 lb down and 84 lb up at 6-10-12, and 114 lb down and 84 lb up at 8-10-12, and 114 lb down and 84 lb up at 10-10-12 on top chord, and 216 lb down and 75 lb up at 2-10-12, 40 lb down at 4-10-12, 40 lb down at 6-10-12, 40 lb down at 8-10-12, and 40 lb down at 10-10-12, and 1382 lb down at 12-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 9-13=-60, 13-15=-60, 23-26=-20, 6-9=-60

Concentrated Loads (lb)

Vert: 3=-74(B) 21=-1382(B) 29=-74(B) 31=-74(B) 32=-74(B) 34=-216(B) 35=-24(B) 36=-24(B) 37=-24(B) 38=-24(B)

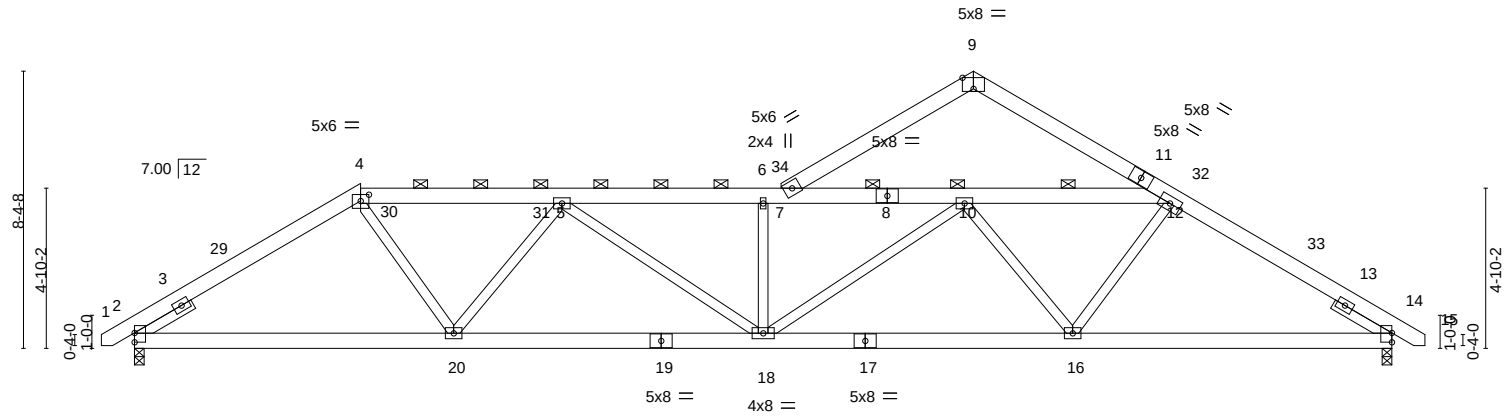
Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A02	HIP	1	1	I54953361
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:33 2022 Page 1

ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-KMNhuxi8gtuNY95SuLQPm9nQ91nUQ34dfG1MiCyPFBi

-1-0-0	6-10-0	12-11-0	19-0-0	19-6-8	25-1-0	25-4-4	31-2-0	38-0-0	39-0-0
1-0-0	6-10-0	6-1-0	6-1-0	0-6-8	5-6-8	0-3-4	5-9-12	6-10-0	1-0-0

Scale = 1:69.6



9-7-12	19-0-0	28-4-4	38-0-0
9-7-12	9-4-4	9-4-4	9-7-12

Plate Offsets (X,Y)-- [4:0-3-0,0-2-5], [9:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.15	18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.33	18-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.09	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	18	>999	240	Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-8 oc purlins, except 2-0-0 oc purlins (3-10-14 max.): 4-12. Except: 1 Row at midpt 7-10, 10-12
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 10

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=-156(LC 10)
Max Uplift 2=-2(LC 12)
Max Grav 2=1570(LC 1), 14=1570(LC 1)

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

TOP CHORD	2-4=-2318/146, 4-5=-2459/135, 5-6=-3348/168, 6-7=-3348/168, 7-10=-3021/137, 10-12=-2012/65, 9-12=-462/105, 12-14=-2298/122, 7-9=-447/103
BOT CHORD	2-20=-35/1921, 18-20=-79/2973, 16-18=-9/2706, 14-16=-28/1894
WEBS	4-20=0/1000, 5-20=-861/107, 5-18=0/462, 6-18=-532/132, 10-18=-59/853, 10-16=-653/56, 12-16=0/830

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 6-10-0, Exterior(2) 6-10-0 to 12-2-8, Interior(1) 12-2-8 to 25-4-4, Exterior(2) 25-4-4 to 30-8-12, Interior(1) 30-8-12 to 38-10-0 zone; cantilever left and right exposed ; end vertical 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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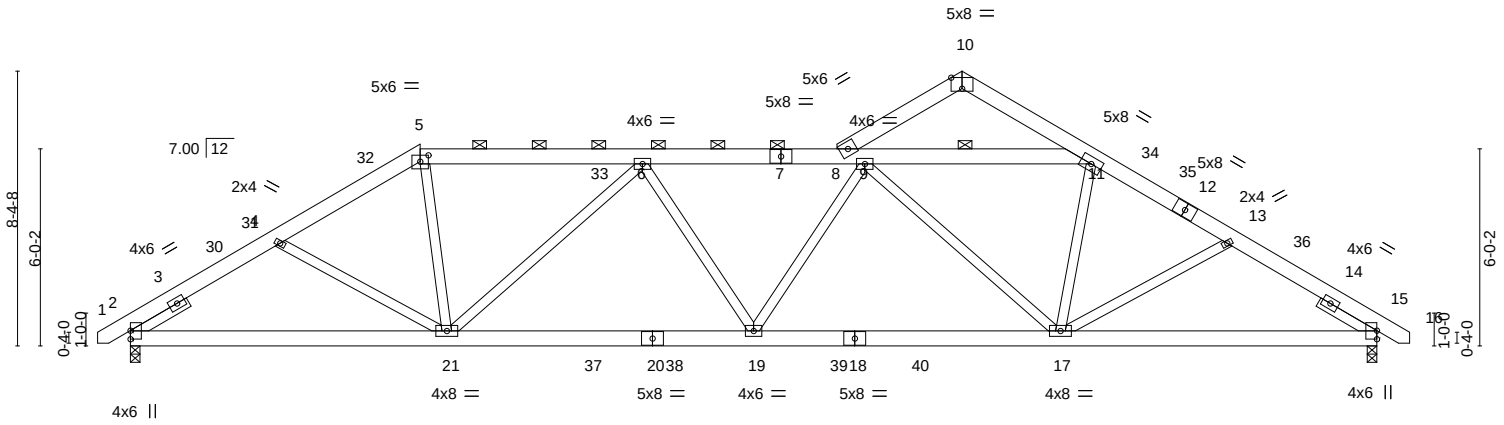
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A03	HIP	1	1	I54953362
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:35 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-GkVSJdkOBU85oTFr0mTtrasmBqSuurow7aWSm5yPFBg

-1-0-0	4-6-12	8-10-0	15-7-5	21-6-8	22-4-11	25-4-4	29-2-0	33-5-4	38-0-0	39-0-0
1-0-0	4-6-12	4-3-4	6-9-5	5-11-3	0-10-3	2-11-9	3-9-12	4-3-4	4-6-12	1-0-0

Scale = 1:70.2



9-7-12	19-0-0	28-4-4	38-0-0
9-7-12	9-4-4	9-4-4	9-7-12

Plate Offsets (X,Y)-- [5:0-3-0,0-2-5], [10:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.12	19-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.25	19-21	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.08	15	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	19	>999	240	Weight: 291 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-3 oc purlins, except 2-0-0 oc purlins (4-3-9 max.): 5-11. Except: 1 Row at midpt 8-11
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 15=0-3-8
Max Horz 2=-156(LC 10)
Max Uplift 2=-2(LC 12)
Max Grav 2=1570(LC 1), 15=1570(LC 1)

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

TOP CHORD	2-4=-2281/143, 4-5=-2177/137, 5-6=-1976/136, 6-8=-2588/154, 8-9=-2424/143, 9-11=-1816/121, 10-11=-263/60, 11-13=-2169/118, 13-15=-2277/120, 8-10=-259/60
BOT CHORD	2-21=-60/1871, 19-21=-49/2549, 17-19=-32/2507, 15-17=-41/1865
WEBS	5-21=0/712, 6-21=-786/83, 9-19=-1/280, 9-17=-797/78, 11-17=0/684

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 8-10-0, Exterior(2) 8-10-0 to 14-2-8, Interior(1) 14-2-8 to 25-4-4, Exterior(2) 25-4-4 to 30-8-12, Interior(1) 30-8-12 to 38-10-0 zone; cantilever left and right exposed ; end vertical 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 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) 2.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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818 Soundside Road
Edenton, NC 27932

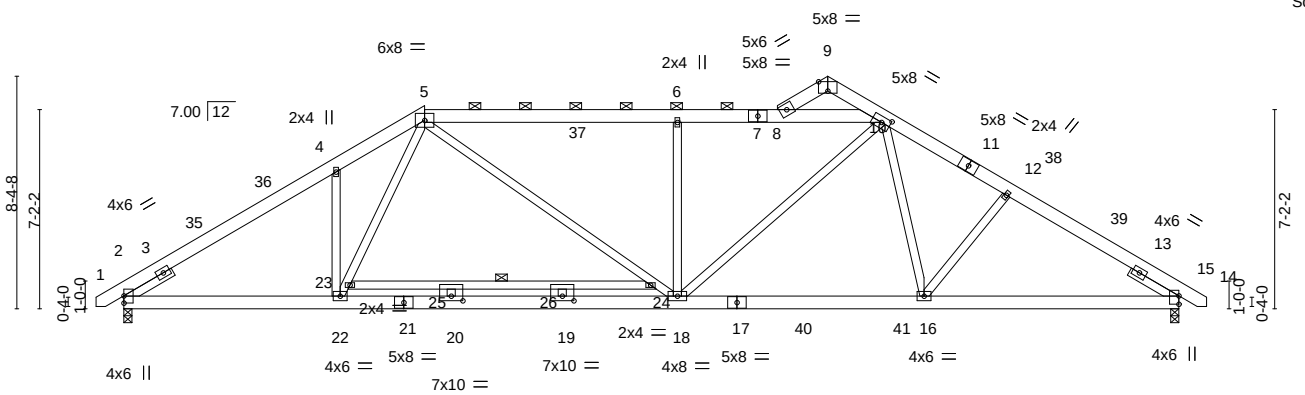
Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A04	HIP	1	1	I54953363
					Job Reference (optional)

Builders firstsource, Apex . NC — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 10:43:36 2022 Page 1

ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-F?il8VF1N4WA?pOfkbwF26GnnFHG7F?pdeEXs_yPEZL

-1-0-0	7-7-12	10-10-0	19-11-4	23-6-8	25-4-4	27-2-0	31-9-7	38-0-0	39-0-0
1-0-0	7-7-12	3-2-4	9-1-4	3-7-4	1-9-12	1-9-12	4-7-7	6-2-9	1-0-0

Scale = 1:83.0



7-7-12	11-9-8	15-9-8	19-11-4	28-9-14	38-0-0
7-7-12	4-1-12	4-0-0	4-1-12	8-10-10	9-2-2

Plate Offsets (X,Y)-- [9:0-4-0,Edge], [10:0-3-12,0-2-8], [25:0-5-0,0-2-0], [26:0-5-0,0-2-0]

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	0.67	Vert(LL)	-0.39	19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.57	19-20	>801	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	19	>999	240	Weight: 299 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-21: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 23-24: 2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-7 oc purlins, except 2-0-0 oc purlins (4-3-4 max.): 5-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 23-24

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=-156(LC 10)
Max Uplift 2=-2(LC 12)
Max Grav 2=1621(LC 2), 14=1590(LC 20)

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

TOP CHORD	2-3=-801/0, 3-35=-2497/85, 35-36=-2395/91, 4-36=-2378/114, 4-5=-2355/189, 5-37=-2423/174, 6-37=-2424/174, 6-7=-2423/174, 7-8=-2423/174, 8-10=-2279/175, 10-11=-2101/147, 11-38=-2181/126, 12-38=-2200/120, 12-39=-2253/129, 13-39=-2343/101, 13-14=-972/0
BOT CHORD	2-22=-0/2054, 21-22=0/1931, 20-21=0/1931, 19-20=0/1931, 18-19=0/1931, 17-18=0/1821, 17-40=0/1821, 40-41=0/1821, 16-41=0/1821, 14-16=-38/1933
WEBS	22-23=-83/476, 5-23=-73/563, 6-18=-612/150, 10-18=-22/924, 10-16=-23/312, 5-24=-47/716, 18-24=-42/626

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 10-10-0, Exterior(2) 10-10-0 to 16-2-8, Interior(1) 16-2-8 to 25-4-4, Exterior(2) 25-4-4 to 30-8-12, Interior(1) 30-8-12 to 38-10-0 zone; cantilever left and right exposed ; end vertical 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 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 2 lb uplift at joint 2.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) N/A
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

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Edenton, NC 27932

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-8=-60, 9-10=-60, 10-15=-60, 27-31=-20, 8-9=-60
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-50, 5-8=-50, 9-10=-50, 10-15=-50, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-50, 23-24=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-20, 5-8=-20, 9-10=-20, 10-15=-20, 27-31=-40, 8-9=-20, 23-24=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-35=17, 5-35=12, 5-37=20, 8-37=15, 9-10=17, 10-38=17, 14-38=12, 14-15=8, 27-31=-12, 8-9=12
   Horz: 1-2=-44, 2-35=-29, 5-35=-24, 9-10=29, 10-38=29, 14-38=24, 14-15=20, 8-9=-24
   Drag: 5-37=0, 6-37=0
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-36=12, 5-36=17, 5-8=15, 9-10=12, 10-39=12, 14-39=17, 14-15=32, 27-31=-12, 8-9=17
   Horz: 1-2=-20, 2-36=-24, 5-36=-29, 9-10=24, 10-39=24, 14-39=29, 14-15=44, 8-9=-29
   Drag: 5-6=0
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-5=-44, 5-8=-29, 9-10=-44, 10-14=-44, 14-15=-40, 27-31=-20, 8-9=-44
   Horz: 1-2=-20, 2-5=24, 9-10=-24, 10-14=-24, 14-15=-20, 8-9=24
   Drag: 5-6=-0
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-5=-44, 5-8=-29, 9-10=-44, 10-14=-44, 14-15=-0, 27-31=-20, 8-9=-44
   Horz: 1-2=20, 2-5=24, 9-10=-24, 10-14=-24, 14-15=20, 8-9=24
   Drag: 5-6=-0
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-5=-14, 5-8=19, 9-10=5, 10-14=5, 14-15=1, 27-31=-12, 8-9=-14
   Horz: 1-2=-8, 2-5=2, 9-10=17, 10-14=17, 14-15=13, 8-9=2
   Drag: 5-6=0
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-5=5, 5-8=5, 9-10=-14, 10-14=-14, 14-15=-4, 27-31=-12, 8-9=5
   Horz: 1-2=-13, 2-5=-17, 9-10=-2, 10-14=-2, 14-15=8, 8-9=-17
   Drag: 5-6=0
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-5=-31, 5-8=2, 9-10=-11, 10-14=-11, 14-15=-7, 27-31=-20, 8-9=-31
    Horz: 1-2=7, 2-5=11, 9-10=9, 10-14=9, 14-15=13, 8-9=11
    Drag: 5-6=0
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-5=-11, 5-8=-11, 9-10=-31, 10-14=-31, 14-15=-27, 27-31=-20, 8-9=-11
    Horz: 1-2=-13, 2-5=-9, 9-10=-11, 10-14=-11, 14-15=-7, 8-9=-9
    Drag: 5-6=0
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-4=19, 4-5=9, 5-8=9, 9-10=2, 10-14=2, 14-15=-3, 27-31=-12, 8-9=9
    Horz: 1-2=-26, 2-4=-31, 4-5=-21, 9-10=14, 10-14=14, 14-15=9, 8-9=-21
    Drag: 5-6=0
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-5=2, 5-8=2, 9-10=9, 10-11=9, 11-14=19, 14-15=14, 27-31=-12, 8-9=2
    Horz: 1-2=-9, 2-5=-14, 9-10=21, 10-11=21, 11-14=31, 14-15=26, 8-9=-14
    Drag: 5-6=0
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-5=9, 5-8=9, 9-10=2, 10-14=2, 14-15=-3, 27-31=-12, 8-9=9
    Horz: 1-2=-17, 2-5=-21, 9-10=14, 10-14=14, 14-15=9, 8-9=-21
    Drag: 5-6=0
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-5=2, 5-8=2, 9-10=9, 10-14=9, 14-15=5, 27-31=-12, 8-9=2
    Horz: 1-2=-9, 2-5=-14, 9-10=21, 10-14=21, 14-15=17, 8-9=-14
    Drag: 5-6=0
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-4=2, 4-5=-7, 5-8=-7, 9-10=-15, 10-14=-15, 14-15=-11, 27-31=-20, 8-9=-7
    Horz: 1-2=-26, 2-4=-22, 4-5=-13, 9-10=5, 10-14=5, 14-15=9, 8-9=-13
    Drag: 5-6=0
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-11, 2-5=-15, 5-8=-15, 9-10=-7, 10-11=-7, 11-14=2, 14-15=6, 27-31=-20, 8-9=-15
Horz: 1-2=-9, 2-5=-5, 9-10=13, 10-11=13, 11-14=22, 14-15=26, 8-9=-5
Drag: 5-6=0

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-20, 9-10=-20, 10-15=-20, 27-40=-20, 40-41=-60, 31-41=-20, 8-9=-20, 23-24=-40

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-5=-58, 5-8=-34, 9-10=-44, 10-14=-44, 14-15=-40, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-58, 23-24=-30
Horz: 1-2=5, 2-5=8, 9-10=6, 10-14=6, 14-15=10, 8-9=8
Drag: 5-6=0

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-8=-44, 9-10=-58, 10-14=-58, 14-15=-55, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-44, 23-24=-30
Horz: 1-2=-10, 2-5=-6, 9-10=-8, 10-14=-8, 14-15=-5, 8-9=-6
Drag: 5-6=0

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-4=-34, 4-5=-41, 5-8=-41, 9-10=-46, 10-14=-46, 14-15=-43, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-41, 23-24=-30
Horz: 1-2=-20, 2-4=-16, 4-5=-9, 9-10=4, 10-14=4, 14-15=7, 8-9=-9
Drag: 5-6=0

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-5=-46, 5-8=-46, 9-10=-41, 10-11=-41, 11-14=-34, 14-15=-30, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-46, 23-24=-30
Horz: 1-2=-7, 2-5=-4, 9-10=9, 10-11=9, 11-14=16, 14-15=20, 8-9=-4
Drag: 5-6=0

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 9-10=-20, 10-15=-20, 27-31=-20, 8-9=-60

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-20, 9-10=-60, 10-15=-60, 27-31=-20, 8-9=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-8=-50, 9-10=-20, 10-15=-20, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-50, 23-24=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-20, 9-10=-50, 10-15=-50, 27-40=-20, 40-41=-50, 31-41=-20, 8-9=-20, 23-24=-30

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A05	HIP	1	1	I54953364
					Job Reference (optional)

Builders firstsource, Apex . NC 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 10:43:51 2022 Page 1
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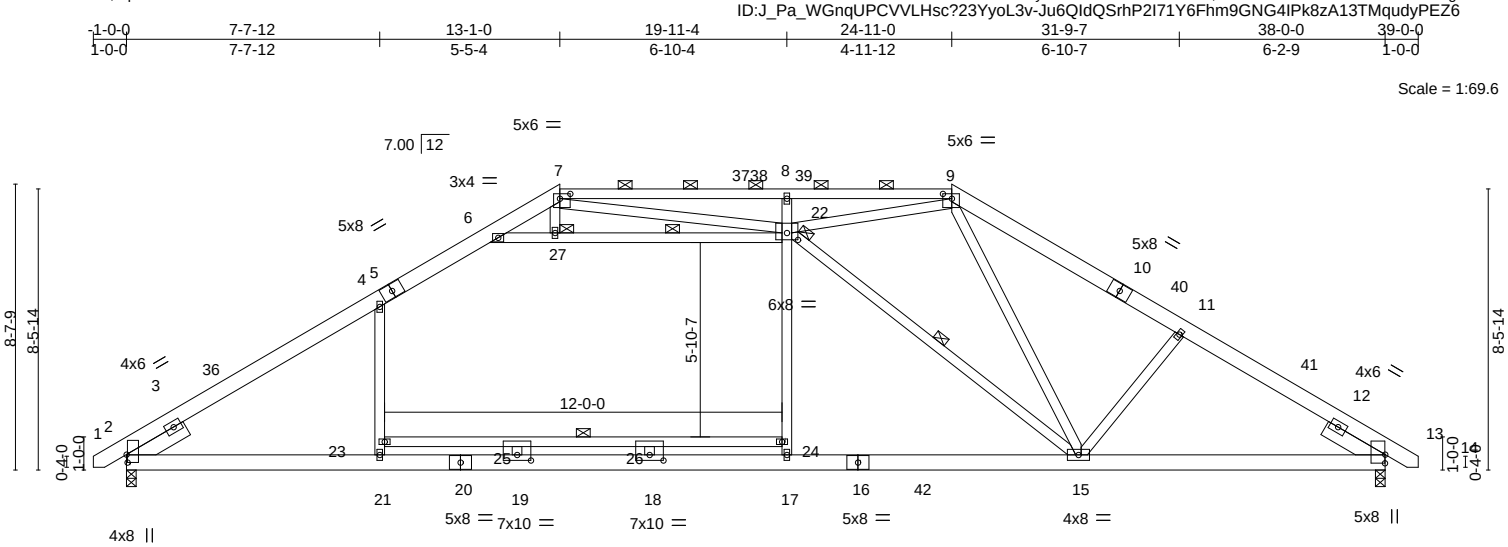

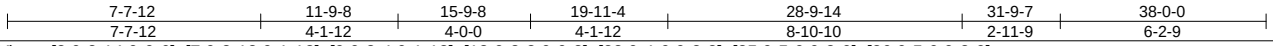

Plate Offsets (X,Y)-- [2:0-2-14,0-0-6], [7:0-3-12,0-1-12], [9:0-3-4,0-1-12], [13:0-3-2,0-0-2], [22:0-4-0,0-2-8], [25:0-5-0,0-2-0], [26:0-5-0,0-2-0]

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	0.98	Vert(LL)	-0.51	18-19	>902	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.74	18-19	>615	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.16	21	>999	240	Weight: 297 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 7-9: 2x4 SP No.1
BOT CHORD	2x6 SP No.2 *Except* 16-20: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 23-24: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-4 oc purlins, except 2-0-0 oc purlins (2-7-6 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 23-24, 22-27, 15-22
JOINTS	1 Brace at Jt(s): 22, 27

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=160(LC 11)
Max Uplift 2=-67(LC 12), 13=-67(LC 13)
Max Grav 2=1657(LC 2), 13=1575(LC 2)

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

TOP CHORD	2-3=-658/0, 3-36=-2492/73, 4-36=-2352/101, 4-5=-2131/162, 5-6=-2058/179, 6-7=-985/310, 7-37=-2797/543, 37-38=-2797/543, 38-39=-2797/543, 8-39=-2797/543, 8-9=-2747/525, 9-10=-2146/165, 10-40=-2183/135, 11-40=-2215/133, 11-41=-2338/142, 12-41=-2378/114, 12-13=-1029/0
BOT CHORD	2-21=-46/2008, 20-21=-54/2016, 19-20=-54/2016, 18-19=-54/2016, 17-18=-54/2016, 16-17=-46/2002, 16-42=-46/2002, 15-42=-46/2002, 13-15=-53/1976
WEBS	21-23=0/581, 4-23=0/679, 17-24=0/676, 22-24=0/767, 8-22=-388/140, 9-22=-481/1221, 9-15=-105/743, 6-27=-1662/169, 22-27=-1673/169, 11-15=-275/174, 15-22=-738/245, 7-22=-229/2147

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 13-1-0, Exterior(2) 13-1-0 to 18-5-8, Interior(1) 18-5-8 to 24-11-0, Exterior(2) 24-11-0 to 30-3-8, Interior(1) 30-3-8 to 38-10-0 zone; cantilever left and right exposed ; end vertical 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) All plates are 2x4 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 20.0psf 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 67 lb uplift at joint 2 and 67 lb uplift at joint 13.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) N/A
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 27,2022

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-9=-60, 9-14=-60, 28-32=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-50, 7-9=-50, 9-14=-50, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-20, 7-9=-20, 9-14=-20, 28-32=-40, 23-24=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-36=17, 7-36=12, 7-37=20, 9-37=15, 9-40=17, 13-40=12, 13-14=8, 28-32=-12
   Horz: 1-2=-44, 2-36=-29, 7-36=-24, 9-40=29, 13-40=24, 13-14=20
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-4=12, 4-7=17, 7-39=15, 9-39=20, 9-41=12, 13-41=17, 13-14=32, 28-32=-12
   Horz: 1-2=-20, 2-4=-24, 4-7=-29, 9-41=24, 13-41=29, 13-14=44
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-7=-44, 7-9=-29, 9-13=-44, 13-14=-40, 28-32=-20
   Horz: 1-2=-20, 2-7=24, 9-13=-24, 13-14=-20
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-7=-44, 7-9=-29, 9-13=-44, 13-14=-0, 28-32=-20
   Horz: 1-2=20, 2-7=24, 9-13=-24, 13-14=20
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-7=-14, 7-9=19, 9-13=5, 13-14=1, 28-32=-12
   Horz: 1-2=-8, 2-7=2, 9-13=17, 13-14=13
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-7=5, 7-9=19, 9-13=-14, 13-14=-4, 28-32=-12
   Horz: 1-2=-13, 2-7=-17, 9-13=-2, 13-14=8
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-7=-31, 7-9=2, 9-13=-11, 13-14=-7, 28-32=-20
    Horz: 1-2=7, 2-7=11, 9-13=9, 13-14=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-9=2, 9-13=-31, 13-14=-27, 28-32=-20
    Horz: 1-2=-13, 2-7=-9, 9-13=-11, 13-14=-7
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-7=19, 7-38=19, 9-38=5, 9-13=5, 13-14=1, 28-32=-12
    Horz: 1-2=-26, 2-7=-31, 9-13=17, 13-14=13
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-7=5, 7-38=5, 9-38=19, 9-13=19, 13-14=14, 28-32=-12
    Horz: 1-2=-13, 2-7=-17, 9-13=31, 13-14=26
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-7=9, 7-38=9, 9-38=2, 9-13=2, 13-14=-3, 28-32=-12
    Horz: 1-2=-17, 2-7=-21, 9-13=14, 13-14=9
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-7=2, 7-38=2, 9-38=9, 9-13=9, 13-14=5, 28-32=-12
    Horz: 1-2=-9, 2-7=-14, 9-13=21, 13-14=17
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-7=2, 7-38=2, 9-38=-11, 9-13=-11, 13-14=-7, 28-32=-20
    Horz: 1-2=-26, 2-7=-22, 9-13=9, 13-14=13
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-38=-11, 9-38=2, 9-13=2, 13-14=6, 28-32=-20
    Horz: 1-2=-13, 2-7=-9, 9-13=22, 13-14=26
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-7=-20, 7-9=-20, 9-14=-20, 17-28=-20, 17-42=-60, 32-42=-20, 23-24=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-7=-58, 7-9=-34, 9-13=-44, 13-14=-40, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30
    Horz: 1-2=5, 2-7=8, 9-13=6, 13-14=10
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-9=-34, 9-13=-58, 13-14=-55, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 9-13=-8, 13-14=-5

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-7=-34, 7-38=-34, 9-38=-44, 9-13=-44, 13-14=-40, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30
Horz: 1-2=-20, 2-7=-16, 9-13=6, 13-14=10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-38=-44, 9-38=-34, 9-13=-34, 13-14=-30, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 9-13=16, 13-14=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-9=-60, 9-14=-20, 28-32=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-9=-60, 9-14=-60, 28-32=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-9=-50, 9-14=-20, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-9=-50, 9-14=-50, 17-28=-20, 17-42=-50, 32-42=-20, 23-24=-30

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A06	HIP	1	1	I54953365
					Job Reference (optional)

Builders firstsource, Apex . NC — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 10:44:18 2022 Page 1
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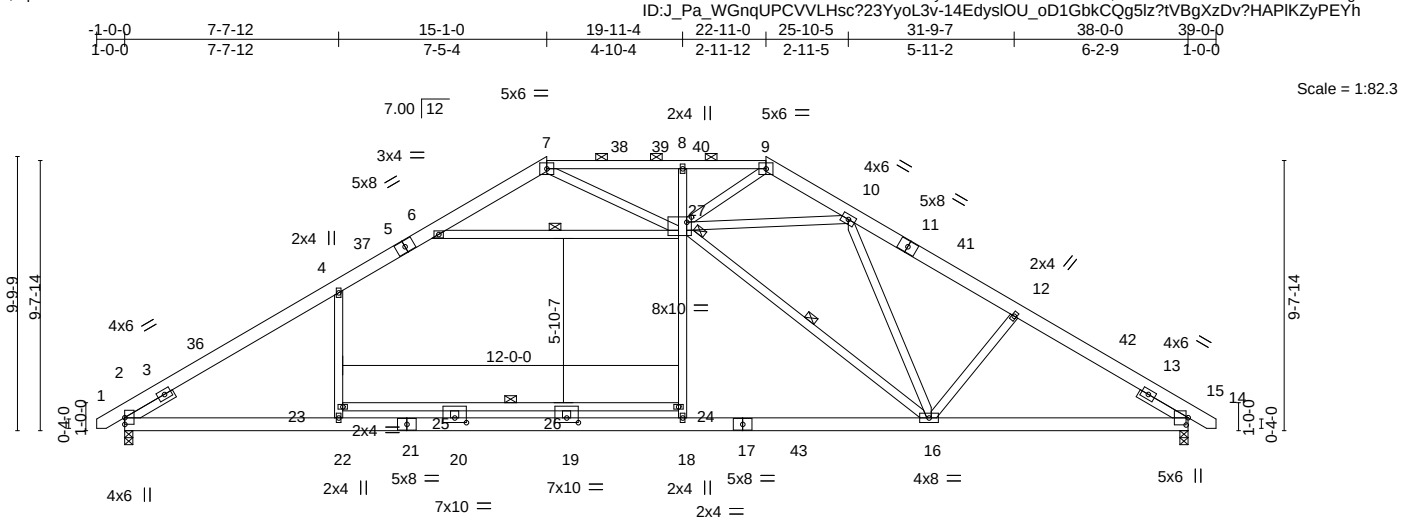

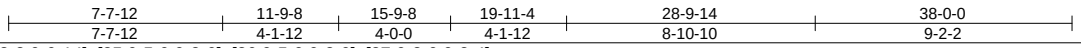

Plate Offsets (X,Y)-- [14:0-3-2,0-0-14], [25:0-5-0,0-2-0], [26:0-5-0,0-2-0], [27:0-2-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.51	19-20	>901	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.74	19-20	>617	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	22	>999	240	Weight: 302 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 7-9: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-21: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 23-24: 2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-4 oc purlins, except 2-0-0 oc purlins (4-2-15 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 23-24, 6-27, 16-27
JOINTS	1 Brace at Jt(s): 27

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=183(LC 11)
Max Uplift 2=-63(LC 12), 14=-63(LC 13)
Max Grav 2=1662(LC 19), 14=1579(LC 20)

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

TOP CHORD	2-3=-677/0, 3-36=-2442/66, 4-36=-2302/94, 4-37=-2109/155, 5-37=-2050/168, 5-6=-2036/173, 6-7=-965/221, 7-38=-1607/295, 38-39=-1607/295, 8-39=-1607/295, 8-40=-1609/295, 9-40=-1609/295, 9-10=-1184/214, 10-11=-2118/149, 11-41=-2126/134, 12-41=-2202/131, 12-42=-2317/127, 13-42=-2356/99, 13-14=-1024/0
BOT CHORD	2-22=-65/2018, 21-22=-73/2043, 20-21=-73/2043, 19-20=-73/2043, 18-19=-73/2043, 17-18=-64/2020, 17-43=-64/2020, 16-43=-64/2020, 14-16=-35/1954
WEBS	22-23=0/527, 4-23=0/629, 18-24=0/725, 24-27=0/812, 8-27=-279/93, 10-16=-91/551, 6-27=-1526/269, 7-27=-100/920, 16-27=-616/285, 10-27=-975/199, 9-27=-131/792

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 15-1-0, Exterior(2) 15-1-0 to 20-5-8, Interior(1) 20-5-8 to 22-11-0, Exterior(2) 22-11-0 to 28-3-8, Interior(1) 28-3-8 to 38-10-0 zone; cantilever left and right exposed ; end vertical 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 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 63 lb uplift at joint 2 and 63 lb uplift at joint 14.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) N/A
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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LOAD CASE(S)

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-9=-60, 9-15=-60, 28-32=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-50, 7-9=-50, 9-15=-50, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-20, 7-9=-20, 9-15=-20, 28-32=-40, 23-24=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-36=17, 7-36=12, 7-40=20, 9-40=15, 9-41=17, 14-41=12, 14-15=8, 28-32=-12
   Horz: 1-2=-44, 2-36=-29, 7-36=-24, 9-41=29, 14-41=24, 14-15=20
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-37=12, 7-37=17, 7-38=15, 9-38=20, 9-42=12, 14-42=17, 14-15=32, 28-32=-12
   Horz: 1-2=-20, 2-37=-24, 7-37=-29, 9-42=24, 14-42=29, 14-15=44
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-7=-44, 7-9=-29, 9-14=-44, 14-15=-40, 28-32=-20
   Horz: 1-2=-20, 2-7=24, 9-14=-24, 14-15=-20
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-7=-44, 7-9=-29, 9-14=-44, 14-15=-0, 28-32=-20
   Horz: 1-2=20, 2-7=24, 9-14=-24, 14-15=20
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-7=-14, 7-9=19, 9-14=5, 14-15=1, 28-32=-12
   Horz: 1-2=-8, 2-7=2, 9-14=17, 14-15=13
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-7=5, 7-9=19, 9-14=-14, 14-15=-4, 28-32=-12
   Horz: 1-2=-13, 2-7=-17, 9-14=-2, 14-15=8
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-7=-31, 7-9=2, 9-14=-11, 14-15=-7, 28-32=-20
    Horz: 1-2=7, 2-7=11, 9-14=9, 14-15=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-9=2, 9-14=-31, 14-15=-27, 28-32=-20
    Horz: 1-2=-13, 2-7=-9, 9-14=-11, 14-15=-7
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-7=19, 7-39=19, 9-39=5, 9-14=5, 14-15=1, 28-32=-12
    Horz: 1-2=-26, 2-7=-31, 9-14=17, 14-15=13
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-7=5, 7-39=5, 9-39=19, 9-14=19, 14-15=14, 28-32=-12
    Horz: 1-2=-13, 2-7=-17, 9-14=31, 14-15=26
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-7=9, 7-39=9, 9-39=2, 9-14=2, 14-15=-3, 28-32=-12
    Horz: 1-2=-17, 2-7=-21, 9-14=14, 14-15=9
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-7=2, 7-39=2, 9-39=9, 9-14=9, 14-15=5, 28-32=-12
    Horz: 1-2=-9, 2-7=-14, 9-14=21, 14-15=17
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-7=2, 7-39=2, 9-39=-11, 9-14=-11, 14-15=-7, 28-32=-20
    Horz: 1-2=-26, 2-7=-22, 9-14=9, 14-15=13
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-39=-11, 9-39=2, 9-14=2, 14-15=6, 28-32=-20
    Horz: 1-2=-13, 2-7=-9, 9-14=22, 14-15=26
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-7=-20, 7-9=-20, 9-15=-20, 18-28=-20, 18-43=-60, 32-43=-20, 23-24=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-7=-58, 7-9=-34, 9-14=-44, 14-15=-40, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30
    Horz: 1-2=5, 2-7=8, 9-14=6, 14-15=10
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-9=-34, 9-14=-58, 14-15=-55, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 9-14=-8, 14-15=-5

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-7=-34, 7-39=-34, 9-39=-44, 9-14=-44, 14-15=-40, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30
Horz: 1-2=-20, 2-7=-16, 9-14=6, 14-15=10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-39=-44, 9-39=-34, 9-14=-34, 14-15=-30, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 9-14=16, 14-15=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-9=-60, 9-15=-20, 28-32=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-9=-60, 9-15=-60, 28-32=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-9=-50, 9-15=-20, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-9=-50, 9-15=-50, 18-28=-20, 18-43=-50, 32-43=-20, 23-24=-30

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek	I54953366
MASTERFRENCH	A07	HIP	1	1	Job Reference (optional)	

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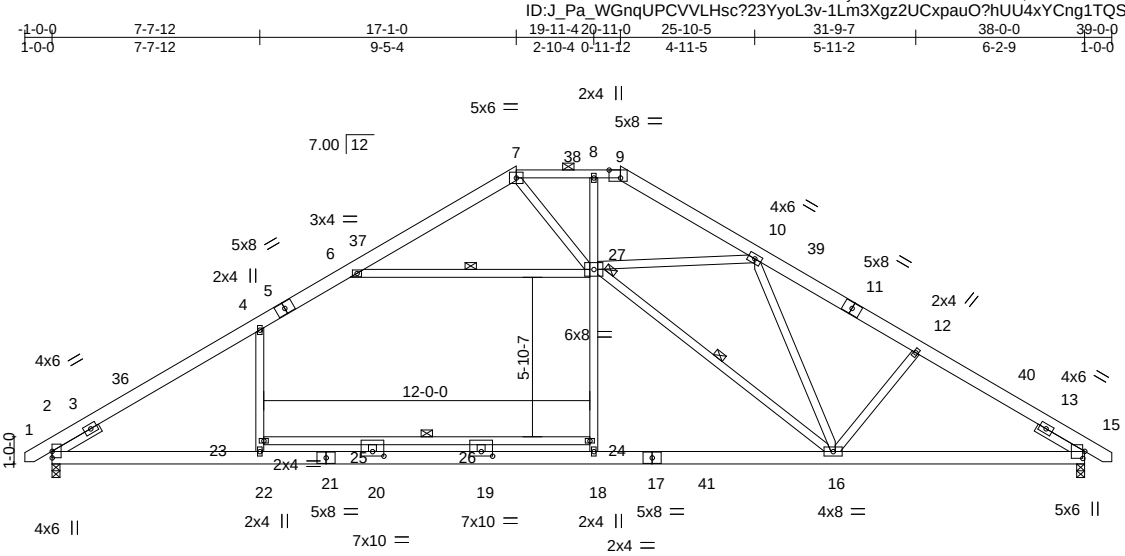

Plate Offsets (X,Y)-- [9:0-5-0,Edge], [14:0-3-2,0-0-14], [25:0-5-0,0-2-0], [26:0-5-0,0-2-0]

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	1.00	Vert(LL)	-0.51	19-20	>887	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.75	19-20	>609	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.16	22	>999	240	Weight: 302 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 7-9: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-21: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 23-24: 2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-0-1 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 23-24, 6-27, 16-27
JOINTS	1 Brace at Jt(s): 27

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=-206(LC 10)
Max Uplift 2=-59(LC 12), 14=-59(LC 13)
Max Grav 2=1694(LC 19), 14=1612(LC 20)

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

TOP CHORD	2-3=-681/0, 3-36=-2440/54, 4-36=-2300/82, 4-5=-2108/143, 5-6=-2035/160, 6-37=-965/89, 7-37=-944/120, 7-38=-998/129, 8-38=-998/129, 8-9=-998/129, 9-10=-1202/133, 10-39=-2080/135, 11-39=-2164/132, 11-12=-2218/113, 12-40=-2343/112, 13-40=-2383/91, 13-14=-1028/0
BOT CHORD	2-22=-78/2085, 21-22=-84/2107, 20-21=-84/2107, 19-20=-84/2107, 18-19=-84/2107, 17-18=-77/2082, 17-41=-77/2082, 16-41=-77/2082, 14-16=-19/1962
WEBS	22-23=0/525, 4-23=0/628, 18-24=0/728, 24-27=0/815, 8-27=-7/380, 10-16=-90/551, 6-27=-1496/319, 7-27=-41/386, 16-27=-639/316, 10-27=-954/229

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 17-1-0, Exterior(2) 17-1-0 to 26-3-8, Interior(1) 26-3-8 to 38-10-0 zone; cantilever left and right exposed ; end vertical 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 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 59 lb uplift at joint 2 and 59 lb uplift at joint 14.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) N/A
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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October 27,2022

LOAD CASE(S)

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-9=-60, 9-15=-60, 28-32=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-50, 7-9=-50, 9-15=-50, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-20, 7-9=-20, 9-15=-20, 28-32=-40, 23-24=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-36=17, 7-36=12, 7-9=20, 9-39=17, 14-39=12, 14-15=8, 28-32=-12
   Horz: 1-2=-44, 2-36=-29, 7-36=-24, 9-39=29, 14-39=24, 14-15=20
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-37=12, 7-37=17, 7-9=20, 9-40=12, 14-40=17, 14-15=32, 28-32=-12
   Horz: 1-2=-20, 2-37=-24, 7-37=-29, 9-40=24, 14-40=29, 14-15=44
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-7=-44, 7-9=-29, 9-14=-44, 14-15=-40, 28-32=-20
   Horz: 1-2=-20, 2-7=24, 9-14=-24, 14-15=-20
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-7=-44, 7-9=-29, 9-14=-44, 14-15=-0, 28-32=-20
   Horz: 1-2=20, 2-7=24, 9-14=-24, 14-15=20
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-7=-14, 7-9=19, 9-14=5, 14-15=1, 28-32=-12
   Horz: 1-2=-8, 2-7=2, 9-14=17, 14-15=13
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-7=5, 7-9=19, 9-14=-14, 14-15=-4, 28-32=-12
   Horz: 1-2=-13, 2-7=-17, 9-14=-2, 14-15=8
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-7=-31, 7-9=2, 9-14=-11, 14-15=-7, 28-32=-20
    Horz: 1-2=7, 2-7=11, 9-14=9, 14-15=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-9=2, 9-14=-31, 14-15=-27, 28-32=-20
    Horz: 1-2=-13, 2-7=-9, 9-14=-11, 14-15=-7
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-7=19, 7-38=19, 9-38=5, 9-14=5, 14-15=1, 28-32=-12
    Horz: 1-2=-26, 2-7=-31, 9-14=17, 14-15=13
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-7=5, 7-38=5, 9-38=19, 9-14=19, 14-15=14, 28-32=-12
    Horz: 1-2=-13, 2-7=-17, 9-14=31, 14-15=26
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-7=9, 7-38=9, 9-38=2, 9-14=2, 14-15=-3, 28-32=-12
    Horz: 1-2=-17, 2-7=-21, 9-14=14, 14-15=9
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-7=2, 7-38=2, 9-38=9, 9-14=9, 14-15=5, 28-32=-12
    Horz: 1-2=-9, 2-7=-14, 9-14=21, 14-15=17
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-7=2, 7-38=2, 9-38=-11, 9-14=-11, 14-15=-7, 28-32=-20
    Horz: 1-2=-26, 2-7=-22, 9-14=9, 14-15=13
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-38=-11, 9-38=2, 9-14=2, 14-15=6, 28-32=-20
    Horz: 1-2=-13, 2-7=-9, 9-14=22, 14-15=26
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-7=-20, 7-9=-20, 9-15=-20, 18-28=-20, 18-41=-60, 32-41=-20, 23-24=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-7=-58, 7-9=-34, 9-14=-44, 14-15=-40, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30
    Horz: 1-2=5, 2-7=8, 9-14=6, 14-15=10
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-9=-34, 9-14=-58, 14-15=-55, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 9-14=-8, 14-15=-5

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-7=-34, 7-38=-34, 9-38=-44, 9-14=-44, 14-15=-40, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30
Horz: 1-2=-20, 2-7=-16, 9-14=6, 14-15=10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-38=-44, 9-38=-34, 9-14=-34, 14-15=-30, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 9-14=16, 14-15=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-9=-60, 9-15=-20, 28-32=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-9=-60, 9-15=-60, 28-32=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-9=-50, 9-15=-20, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-9=-50, 9-15=-50, 18-28=-20, 18-41=-50, 32-41=-20, 23-24=-30

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A08	COMMON	1	1	I54953367
					Job Reference (optional)

Builders firstsource, Apex . NC 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 10:45:10 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-V4NIteO?FyMrHGajFLcHsx9qy8Qa8iCfEG?V9YyPEXt

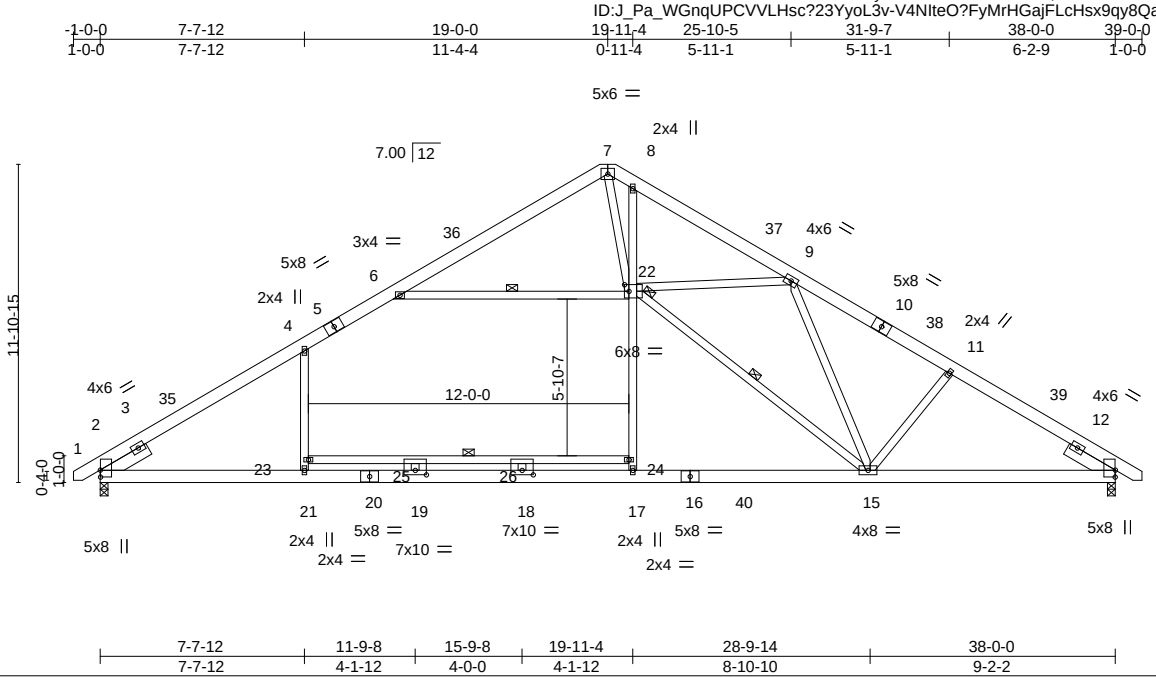

Plate Offsets (X,Y)-- [2:0-3-2,0-0-2], [13:0-3-2,0-0-2], [22:0-2-0,0-3-0], [25:0-5-0,0-2-0], [26:0-5-0,0-2-0]

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	0.74	Vert(LL)	-0.49	18-19	>936	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.70	18-19	>652	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	21	>999	240	Weight: 311 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except*
	1-5,10-14: 2x6 SP DSS
BOT CHORD	2x6 SP No.2 *Except*
	16-20: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except*
	23-24: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-22, 23-24, 15-22
JOINTS	1 Brace at Jt(s): 22

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=226(LC 11)
Max Grav 2=1724(LC 19), 13=1641(LC 20)

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

TOP CHORD	2-3=-815/0, 3-35=-2486/35, 4-35=-2346/63, 4-5=-2149/123, 5-6=-2076/140, 6-36=-959/41, 7-36=-824/80, 7-8=-975/113, 8-37=-981/77, 9-37=-1068/50, 9-10=-2218/113, 10-38=-2225/93, 11-38=-2270/80, 11-39=-2391/91, 12-39=-2431/63, 12-13=-1085/0
BOT CHORD	2-21=0/2142, 20-21=0/2145, 19-20=0/2145, 18-19=0/2145, 17-18=0/2145, 16-17=0/2137, 16-40=0/2137, 15-40=0/2137, 13-15=0/1998
WEBS	21-23=0/541, 4-23=0/642, 17-24=0/724, 22-24=0/811, 9-22=-1094/216, 9-15=-65/574, 6-22=-1600/233, 7-22=-146/796, 15-22=-642/369

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 38-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) N/A

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-14=-60, 27-31=-20

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LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-14=-50, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-20, 7-14=-20, 27-31=-40, 23-24=-40

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-35=17, 7-35=12, 7-37=17, 13-37=12, 13-14=8, 27-31=-12
Horz: 1-2=-44, 2-35=-29, 7-35=-24, 7-37=29, 13-37=24, 13-14=20

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-36=12, 7-36=17, 7-39=12, 13-39=17, 13-14=32, 27-31=-12
Horz: 1-2=-20, 2-36=-24, 7-36=-29, 7-39=24, 13-39=29, 13-14=44

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-0, 2-7=-44, 7-13=-44, 13-14=-40, 27-31=-20
Horz: 1-2=-20, 2-7=24, 7-13=-24, 13-14=-20

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-13=-44, 13-14=-0, 27-31=-20
Horz: 1-2=20, 2-7=24, 7-13=-24, 13-14=20

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-7=-14, 7-13=5, 13-14=1, 27-31=-12
Horz: 1-2=-8, 2-7=2, 7-13=17, 13-14=13

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-7=5, 7-13=-14, 13-14=-4, 27-31=-12
Horz: 1-2=-13, 2-7=-17, 7-13=-2, 13-14=8

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-7=-31, 7-13=-11, 13-14=-7, 27-31=-20
Horz: 1-2=7, 2-7=11, 7-13=9, 13-14=13

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-7=-11, 7-13=-31, 13-14=-27, 27-31=-20
Horz: 1-2=-13, 2-7=-9, 7-13=-11, 13-14=-7

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-4=19, 4-7=9, 7-13=2, 13-14=-3, 27-31=-12
Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-13=14, 13-14=9

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-7=2, 7-38=9, 13-38=19, 13-14=14, 27-31=-12
Horz: 1-2=-9, 2-7=-14, 7-38=21, 13-38=31, 13-14=26

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-7=9, 7-13=2, 13-14=-3, 27-31=-12
Horz: 1-2=-17, 2-7=-21, 7-13=14, 13-14=9

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-7=2, 7-13=9, 13-14=5, 27-31=-12
Horz: 1-2=-9, 2-7=-14, 7-13=21, 13-14=17

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-4=2, 4-7=-7, 7-13=-15, 13-14=-11, 27-31=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-13=5, 13-14=9

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-7=-15, 7-38=-7, 13-38=2, 13-14=6, 27-31=-20
Horz: 1-2=-9, 2-7=-5, 7-38=13, 13-38=22, 13-14=26

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-20, 7-14=-20, 17-27=-20, 17-40=-60, 31-40=-20, 23-24=-40

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-7=-58, 7-13=-44, 13-14=-40, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30
Horz: 1-2=5, 2-7=8, 7-13=6, 13-14=10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-13=-58, 13-14=-55, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30
Horz: 1-2=-10, 2-7=-6, 7-13=-8, 13-14=-5

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LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-4=-34, 4-7=-41, 7-13=-46, 13-14=-43, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-13=4, 13-14=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-7=-46, 7-38=-41, 13-38=-34, 13-14=-30, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30
Horz: 1-2=-7, 2-7=-4, 7-38=9, 13-38=16, 13-14=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-14=-20, 27-31=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-14=-60, 27-31=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-14=-20, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-14=-50, 17-27=-20, 17-40=-50, 31-40=-20, 23-24=-30

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A09	COMMON	4	1	I54953368
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:43 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-1H_T_MqPJx9ylisNURclAGB8y38xmby5yqSt2dyPFBY

-1-0-0 6-6-5 12-9-3 19-0-0 25-2-13 31-5-11 38-0-0 39-0-0
1-0-0 6-6-5 6-2-13 6-2-13 6-2-13 6-2-13 6-6-5 1-0-0

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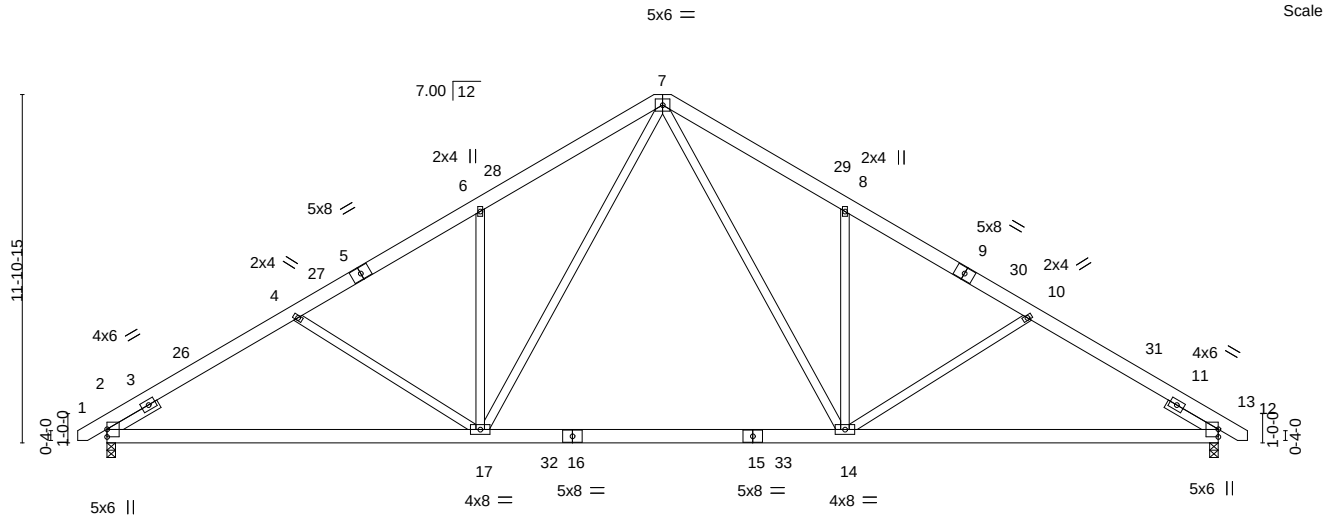

12-9-3 25-2-13 38-0-0
12-9-3 12-5-11 12-9-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.36	14-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.53	14-17	>864	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	14-17	>999	240	Weight: 285 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
7-14,7-17: 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=226(LC 11)
Max Grav 2=1570(LC 1), 12=1570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2300/107, 4-6=-2046/98, 6-7=-2105/205, 7-8=-2105/205, 8-10=-2062/98, 10-12=-2300/107
BOT CHORD 2-17=-18/2057, 14-17=0/1339, 12-14=-3/1897
WEBS 7-14=-68/1060, 8-14=-411/157, 10-14=-292/149, 7-17=-68/1061, 6-17=-412/157, 4-17=-292/148

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 38-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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.

October 27,2022

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Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A09G	GABLE	1	1	I54953369
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:45 2022 Page 1
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-1-0-0 1-0-0 | 19-0-0 19-0-0 | 38-0-0 19-0-0 | 39-0-0 1-0-0

Scale = 1:78.8

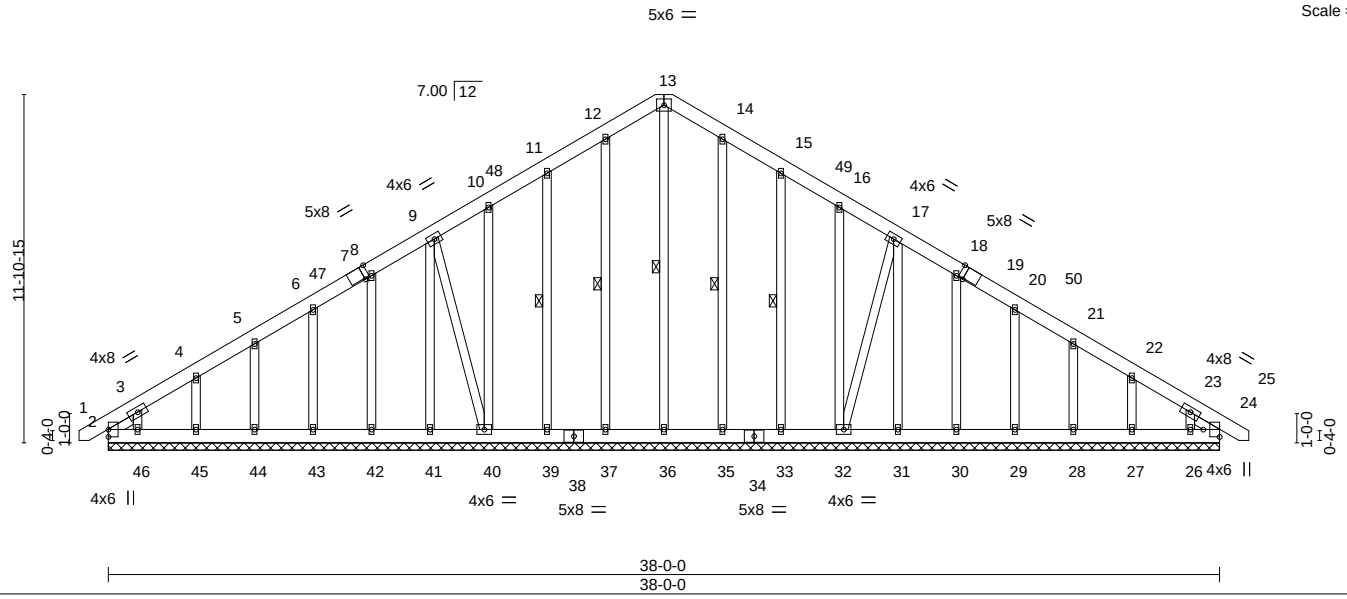


Plate Offsets (X,Y)-- [7:0-2-1,Edge], [19:0-2-1,Edge], [24:Edge,0-6-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	24	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	24	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 380 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 0-11-15, Right 2x4 SP No.2 0-11-15

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 13-36, 12-37, 11-39, 14-35, 15-33

REACTIONS. All bearings 38-0-0.
(lb) - Max Horz 2=-228(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 39, 40, 42, 43, 44, 45, 33, 32, 30, 29, 28, 27, 26 except 46=-106(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, 35, 33, 32, 31, 30, 29, 28, 27, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-250/195

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 3-0-0, Interior(1) 3-0-0 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 38-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf 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, 24, 39, 40, 42, 43, 44, 45, 33, 32, 30, 29, 28, 27, 26 except (jt=lb) 46=106.

October 27,2022

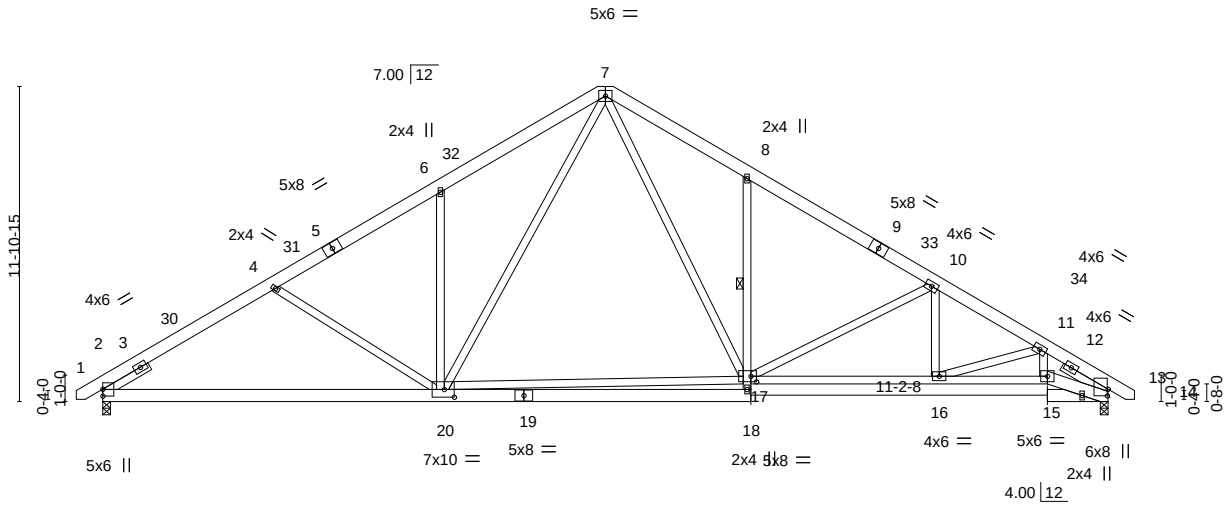
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	A09T	COMMON	5	1	I54953370
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:47 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-v2D_qjtwNAfOEJA9jHghL6MrtgWOiJ6htSQ5BOyPFBU

-1-0-0	6-6-5	12-9-3	19-0-0	24-6-0	31-5-11	35-8-8	38-0-0	39-0-0
1-0-0	6-6-5	6-2-13	6-2-13	5-6-0	6-11-11	4-2-13	2-3-8	1-0-0

Scale = 1:87.1



12-9-3	24-6-0	31-5-11	35-8-8	38-0-0
12-9-3	11-8-13	6-11-11	4-2-13	2-3-8

Plate Offsets (X,Y)-- [13:0-3-0,0-0-6], [17:0-2-8,0-2-8], [20:0-4-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.18	18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.41	18-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	18-20	>999	240	Weight: 310 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	15-17: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	7-20: 2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 8-18

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-226(LC 10)
Max Grav 2=1569(LC 1), 13=1568(LC 1)

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

TOP CHORD	2-4=-2292/106, 4-6=-2024/95, 6-7=-2028/202, 7-8=-2052/224, 8-10=-2091/121, 10-11=-2636/68, 11-13=-2949/57
BOT CHORD	2-20=-18/1896, 13-15=-3/2421, 16-17=0/2277, 15-16=-2/2348
WEBS	7-17=-95/978, 7-20=-59/884, 6-20=-408/158, 4-20=-289/150, 11-15=0/427, 8-17=-374/153, 10-16=0/315, 17-20=0/1146, 10-17=-647/80

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-11-10, Interior(1) 2-11-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-4, Interior(1) 24-4-4 to 38-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	B01G	GABLE	1	1	I54953371
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:48 2022 Page 1
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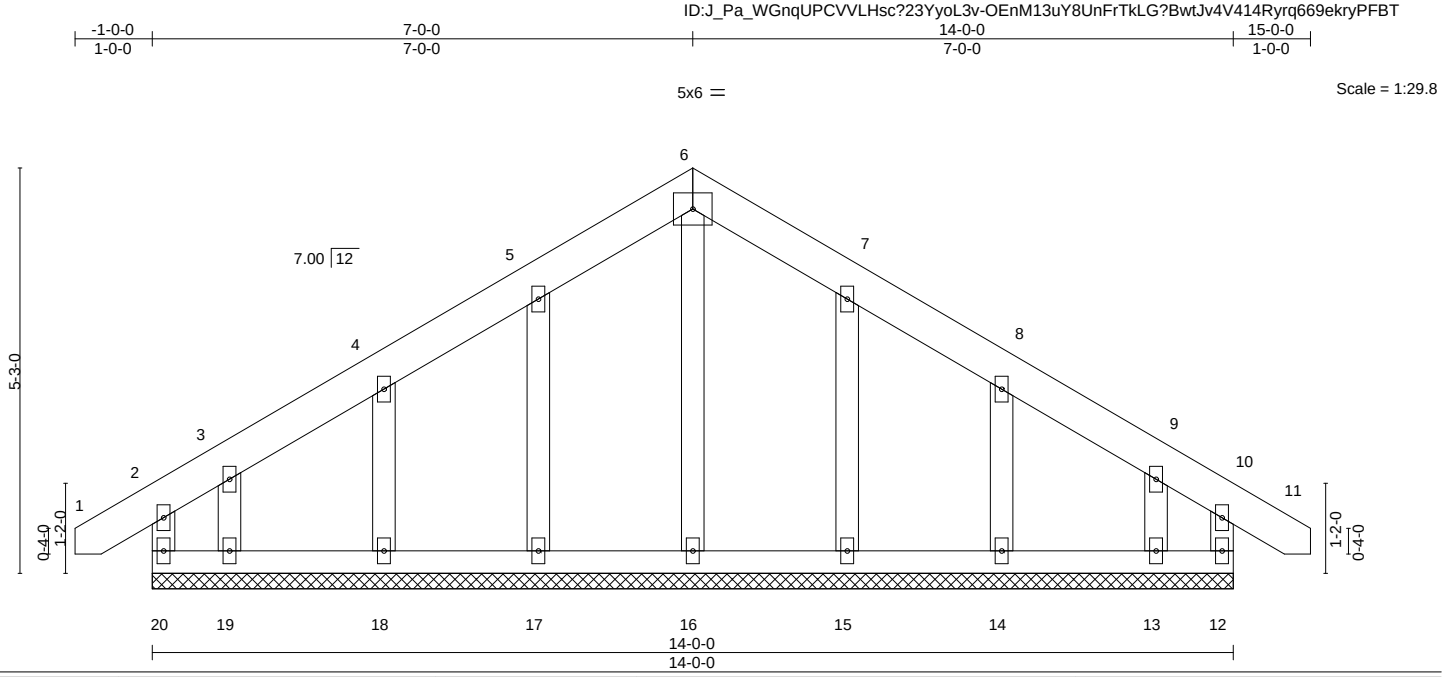

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 92 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

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

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz 20=-114(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-0 to 2-2-0, Exterior(2) 2-2-0 to 7-0-0, Corner(3) 7-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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 20.0psf 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) 20, 12, 17, 18, 19, 15, 14, 13.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	B02	COMMON	1	1	I54953372
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:49 2022 Page 1
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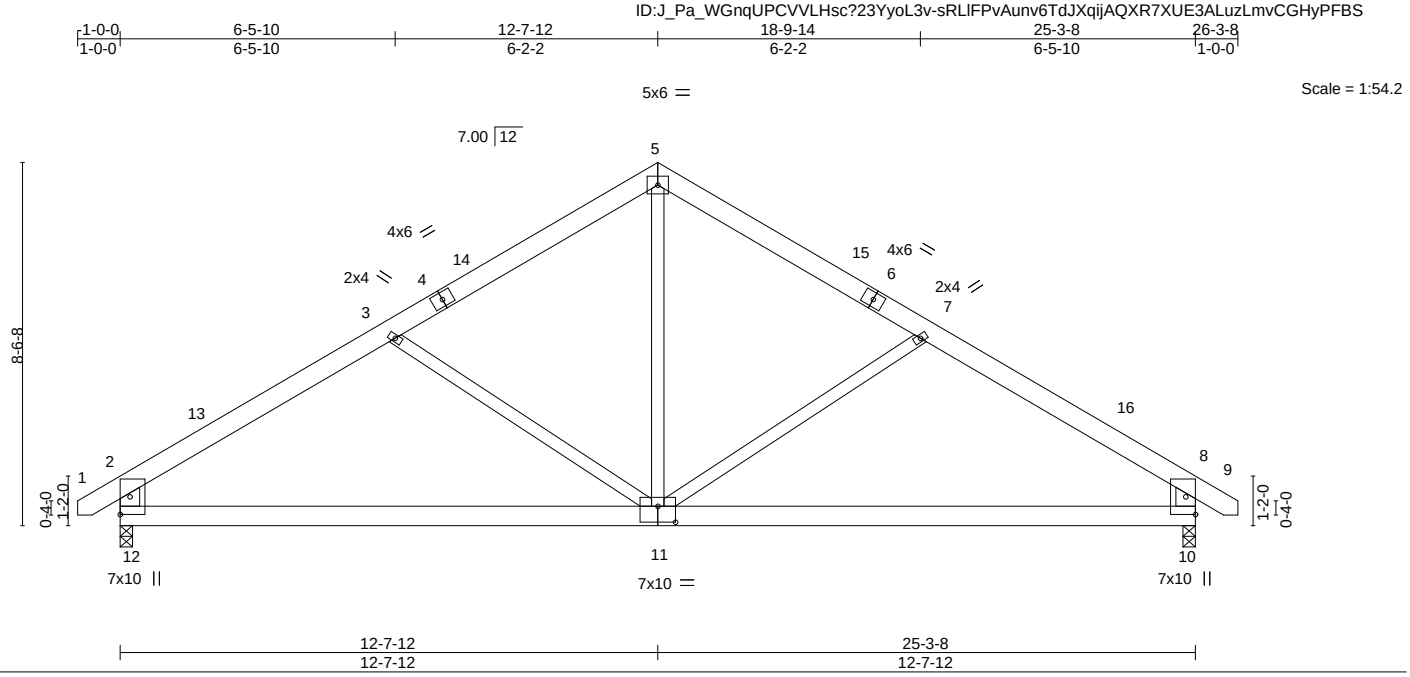

Plate Offsets (X,Y)-- [11:0-5-0,0-4-8]

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	0.55	Vert(LL)	-0.12	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.26	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	11	>999	240	Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12,8-10: 2x6 SP No.2

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

REACTIONS. (size) 12=0-3-8, 10=0-3-8
Max Horz 12=178(LC 11)
Max Grav 12=1057(LC 1), 10=1057(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-928/121, 2-3=-1314/96, 3-5=-1004/82, 5-7=-1004/82, 7-8=-1314/96, 8-10=-928/121
BOT CHORD 11-12=-18/1020, 10-11=-3/1018
WEBS 3-11=-290/156, 5-11=0/608, 7-11=-290/157

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-2-0, Interior(1) 2-2-0 to 12-7-12, Exterior(2) 12-7-12 to 16-10-11, Interior(1) 16-10-11 to 26-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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.

October 27,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	B02SG	GABLE	1	1	I54953373
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:50 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-Kdv7Slvof51z5nukOPEPyk_IGtaIvo87ZQelojyPFBR

1-0-0	6-5-10	12-7-12	18-9-14	25-3-8	26-3-8
1-0-0	6-5-10	6-2-2	6-2-2	6-5-10	1-0-0

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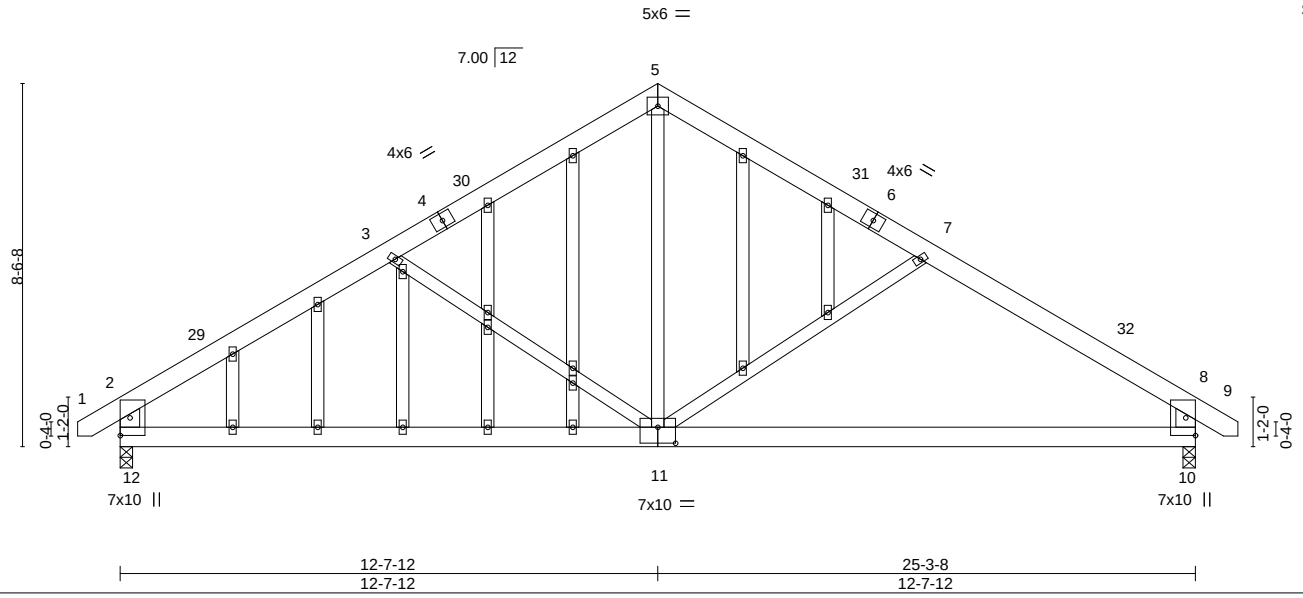

12-7-12	25-3-8
12-7-12	12-7-12

Plate Offsets (X,Y)-- [11:0-5-0,0-4-8]

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	0.55	Vert(LL)	-0.12	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.26	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	11	>999	240	Weight: 210 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 2-12,8-10: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

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

REACTIONS. (size) 12=0-3-8, 10=0-3-8
Max Horz 12=178(LC 11)
Max Grav 12=1057(LC 1), 10=1057(LC 1)

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

TOP CHORD	2-12=-928/121, 2-3=-1314/96, 3-5=-1004/82, 5-7=-1004/82, 7-8=-1314/96, 8-10=-928/121
BOT CHORD	11-12=-18/1020, 10-11=-3/1018
WEBS	3-11=-290/156, 5-11=0/608, 7-11=-290/157

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-2-0, Interior(1) 2-2-0 to 12-7-12, Exterior(2) 12-7-12 to 16-10-11, Interior(1) 16-10-11 to 26-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf 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.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	B03	COMMON	1	1	I54953374
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:51 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-opSVf5wRQP9qiwTwy7leVyXT5HwgeE7Go3OJK9yPFBQ

6-5-10	12-7-12	18-9-14	25-3-8	26-3-8
6-5-10	6-2-2	6-2-2	6-5-10	1-0-0

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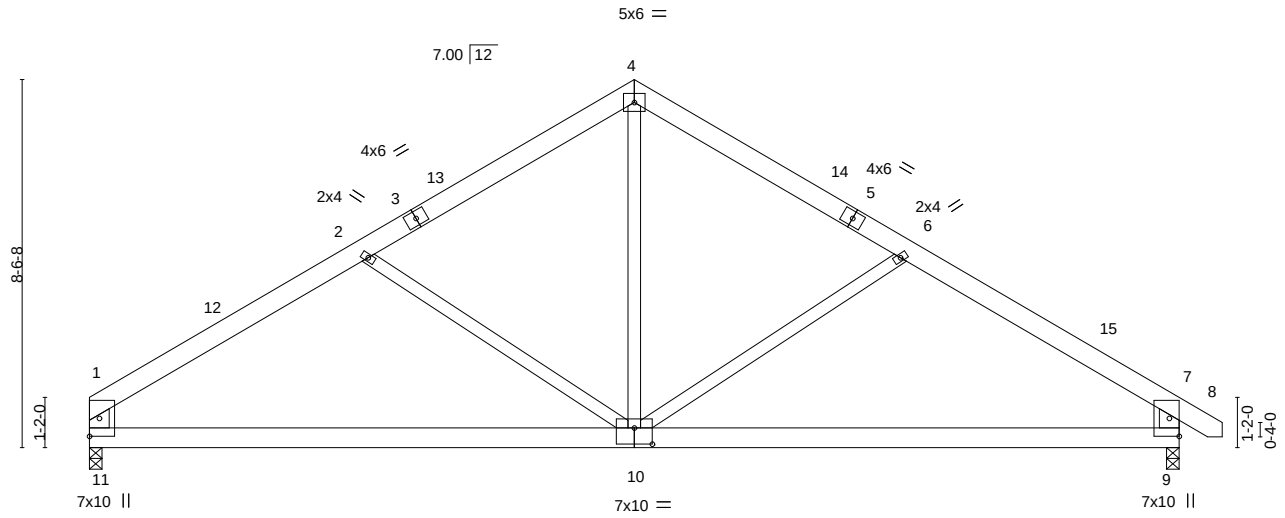

12-7-12	25-3-8
12-7-12	12-7-12

Plate Offsets (X,Y)-- [10:0-5-0,0-4-8]

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	0.54	Vert(LL)	-0.13	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.27	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	10	>999	240	Weight: 166 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
1-11,7-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 9=0-3-8
Max Horz 11=-174(LC 8)
Max Grav 11=992(LC 1), 9=1058(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-855/90, 1-2=-1320/100, 2-4=-1003/83, 4-6=-1003/81, 6-7=-1314/96, 7-9=-927/120
BOT CHORD 10-11=-19/1030, 9-10=-3/1018
WEBS 2-10=-304/157, 4-10=0/608, 6-10=-291/157

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 12-7-12, Exterior(2) 12-7-12 to 16-10-11, Interior(1) 16-10-11 to 26-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	B04	COMMON	2	1	I54953375
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:52 2022 Page 1
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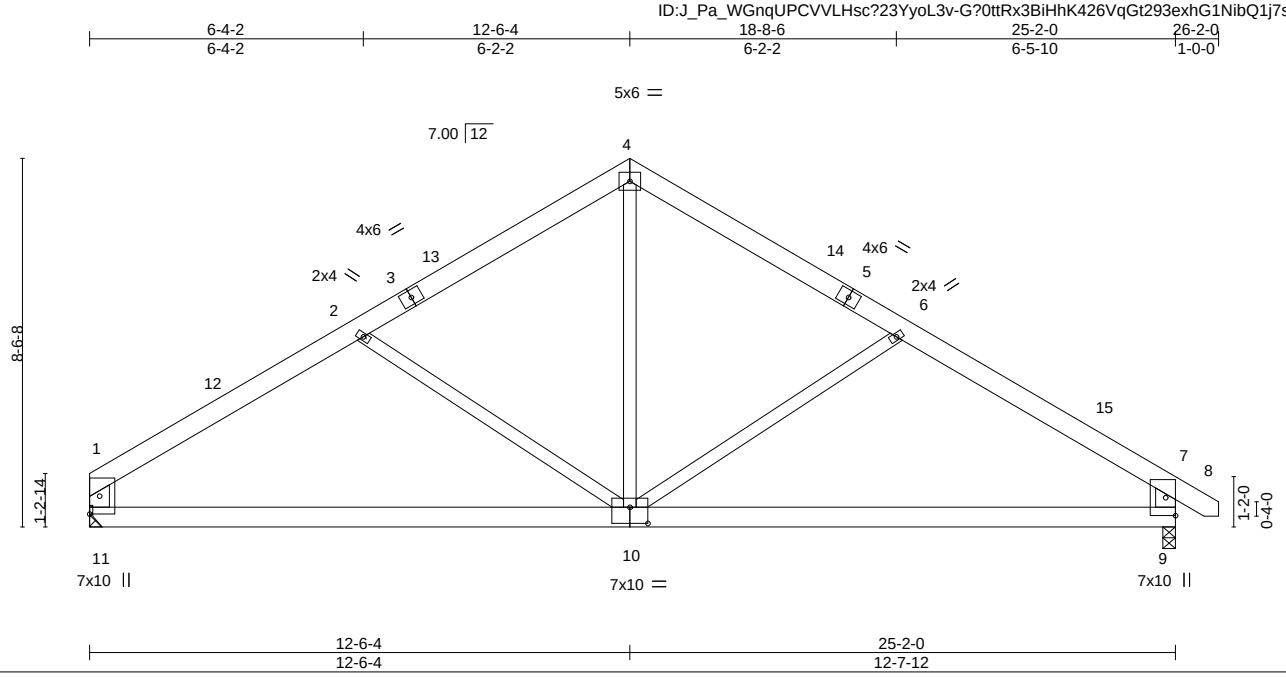

Plate Offsets (X,Y)-- [10:0-5-0,0-4-8]

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	0.54	Vert(LL)	-0.13	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.27	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	10	>999	240	Weight: 166 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
1-11,7-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 9=0-3-8
Max Horz 11=-175(LC 8)
Max Grav 11=987(LC 1), 9=1053(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-849/89, 1-2=-1295/99, 2-4=-990/83, 4-6=-993/81, 6-7=-1304/96, 7-9=-921/121
BOT CHORD 10-11=-18/1008, 9-10=-3/1010
WEBS 2-10=-287/156, 4-10=0/597, 6-10=-292/157

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 12-7-12, Exterior(2) 12-7-12 to 16-10-11, Interior(1) 16-10-11 to 26-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	C01	MONO HIP	1	1	I54953376
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:53 2022 Page 1
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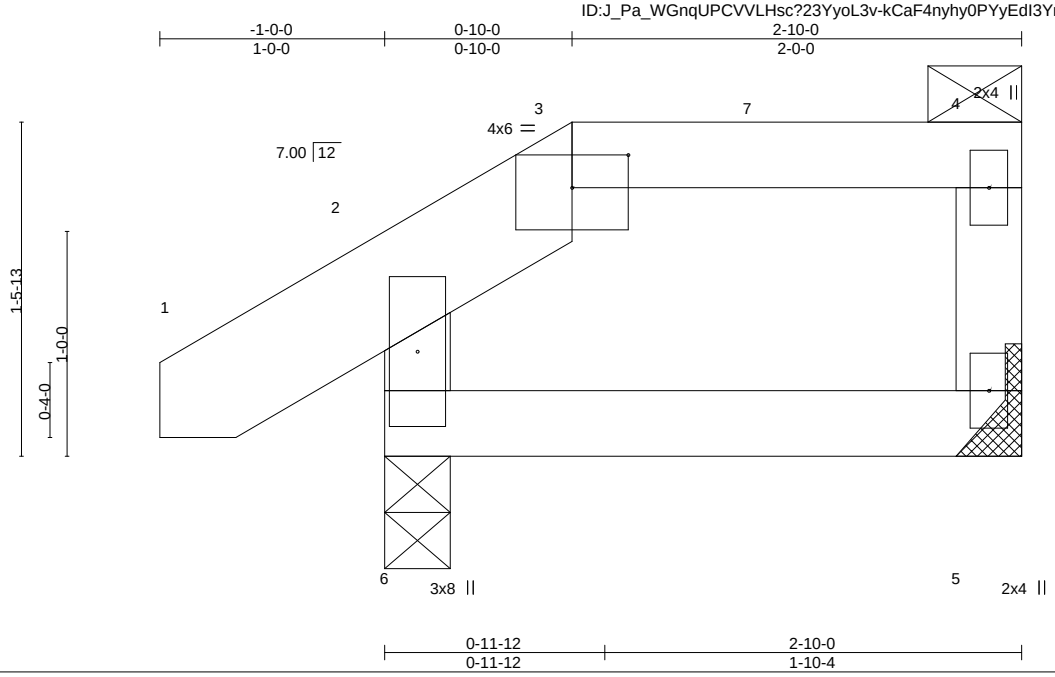

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]

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	0.06	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.00	6	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 5=Mechanical
Max Horz 6=43(LC 9)
Max Uplift 6=-20(LC 12), 5=-17(LC 9)
Max Grav 6=172(LC 1), 5=94(LC 24)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-8-4 zone; cantilever left and right exposed ; end vertical 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 27,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	C02	JACK	1	1	I54953377
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:54 2022 Page 1
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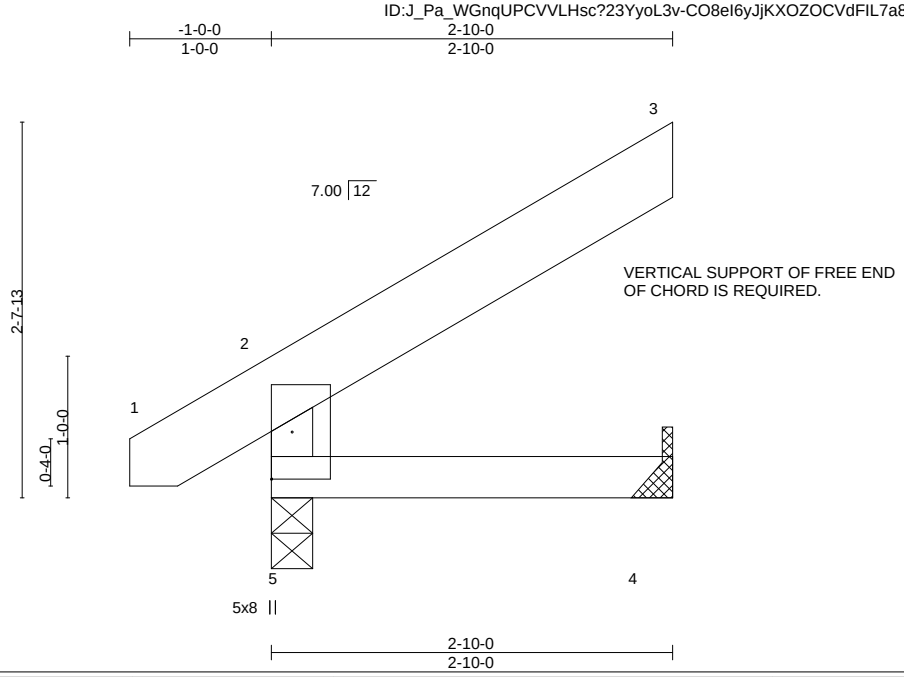

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.02	4-5	>999	240	Weight: 15 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical
Max Horz 5=70(LC 9)
Max Uplift 4=-33(LC 9)
Max Grav 5=171(LC 1), 4=100(LC 19)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-2-0, Interior(1) 2-2-0 to 2-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.

October 27,2022

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	C03-1PL	MONO HIP	1	1	I54953378
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:54 2022 Page 1
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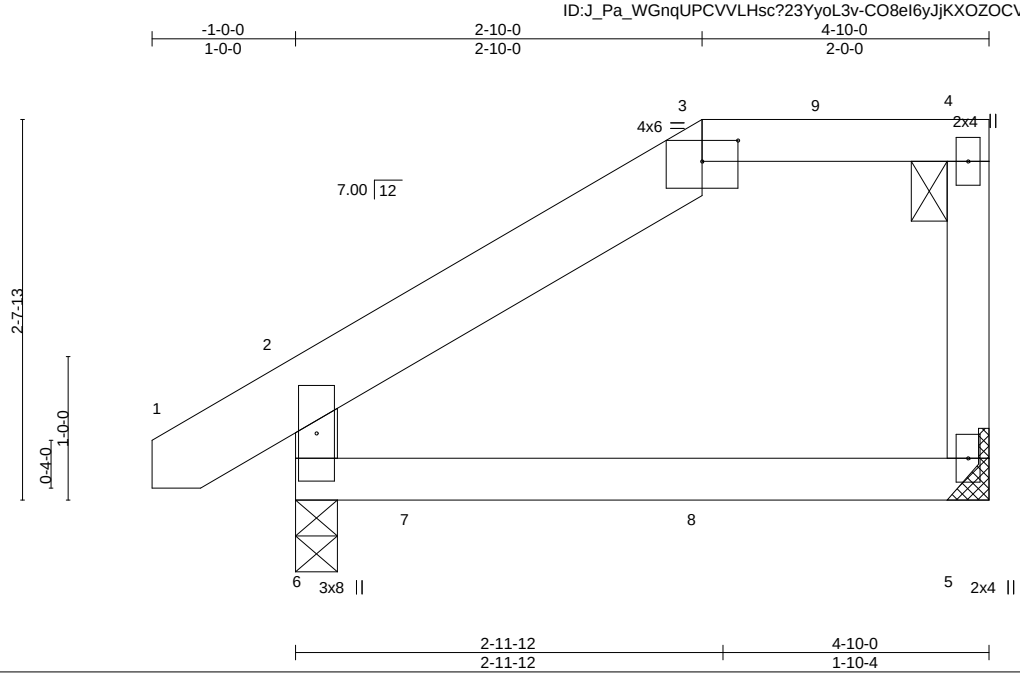

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]

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	0.18	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.04	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.02	5-6	>999	240	Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 5=Mechanical
Max Horz 6=78(LC 5)
Max Uplift 6=-61(LC 8), 5=-55(LC 5)
Max Grav 6=342(LC 1), 5=236(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 34 lb up at 0-10-12, and 79 lb down and 53 lb up at 2-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20, 1-2=-60, 2-3=-60, 3-4=-60
Concentrated Loads (lb)
Vert: 7=-77(F) 8=-79(F)

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	C04	JACK	4	1	I54953379
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:55 2022 Page 1
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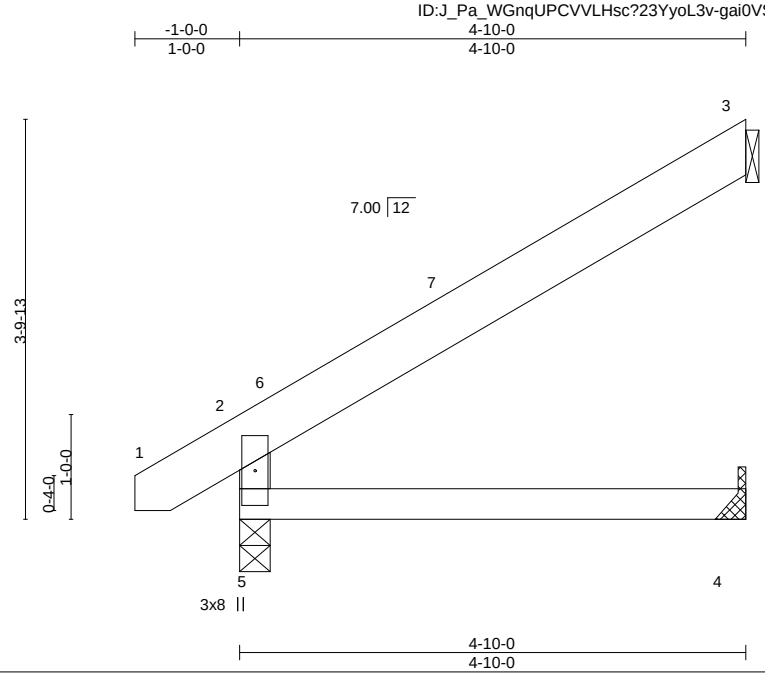

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.01	4-5	>999	240	Weight: 24 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=91(LC 12)
Max Uplift 3=-69(LC 12)
Max Grav 5=249(LC 1), 3=140(LC 19), 4=80(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-0 to 2-2-0, Interior(1) 2-2-0 to 4-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	C05-1PL	MONO TRUSS	1	1	I54953380
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:56 2022 Page 1
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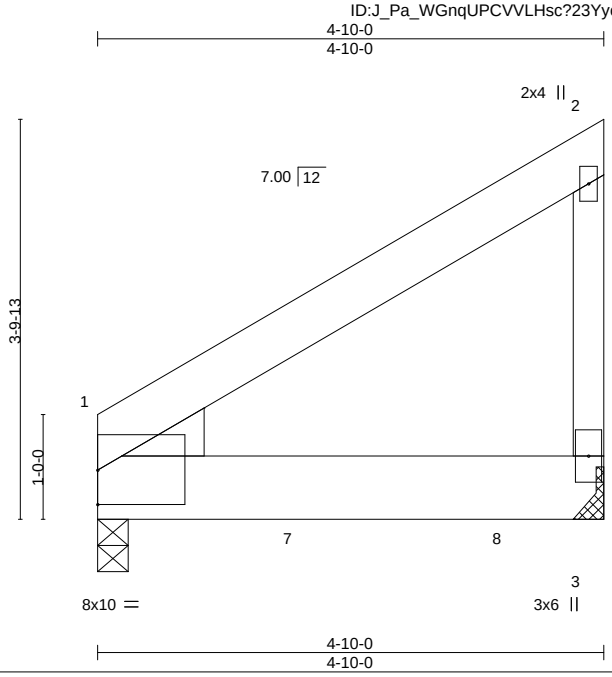

Plate Offsets (X,Y)-- [1:0-0-0,0-3-15]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.03	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.06	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	3-6	>999	240	Weight: 34 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=Mechanical
Max Horz 1=91(LC 7)
Max Grav 1=910(LC 1), 3=1402(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 967 lb down at 1-11-4, and 969 lb down at 3-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20, 1-2=-60
Concentrated Loads (lb)
Vert: 7=-967(B) 8=-969(B)

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	G01	JACK	7	1	I54953381
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:57 2022 Page 1
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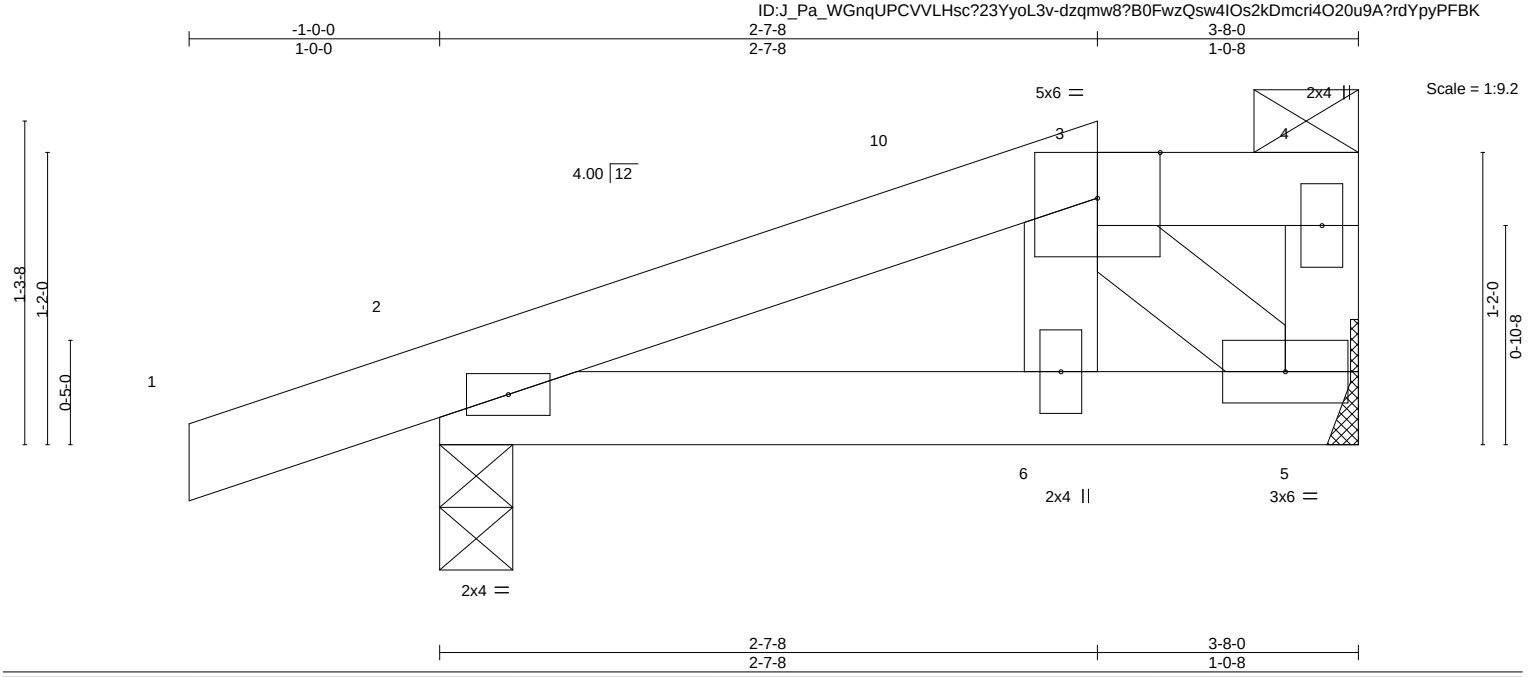

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	6	>999	240	Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=37(LC 8)
Max Uplift 2=-53(LC 8), 5=-43(LC 8)
Max Grav 2=337(LC 1), 5=505(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-474/111
BOT CHORD 2-6=-108/434, 5-6=-114/434
WEBS 3-5=-625/164

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-6-4 zone; cantilever left and right exposed ; end vertical 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 5-7=-20, 3-4=-60
Concentrated Loads (lb)
Vert: 3=-500

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	G01G	GABLE	1	1	I54953382
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:58 2022 Page 1
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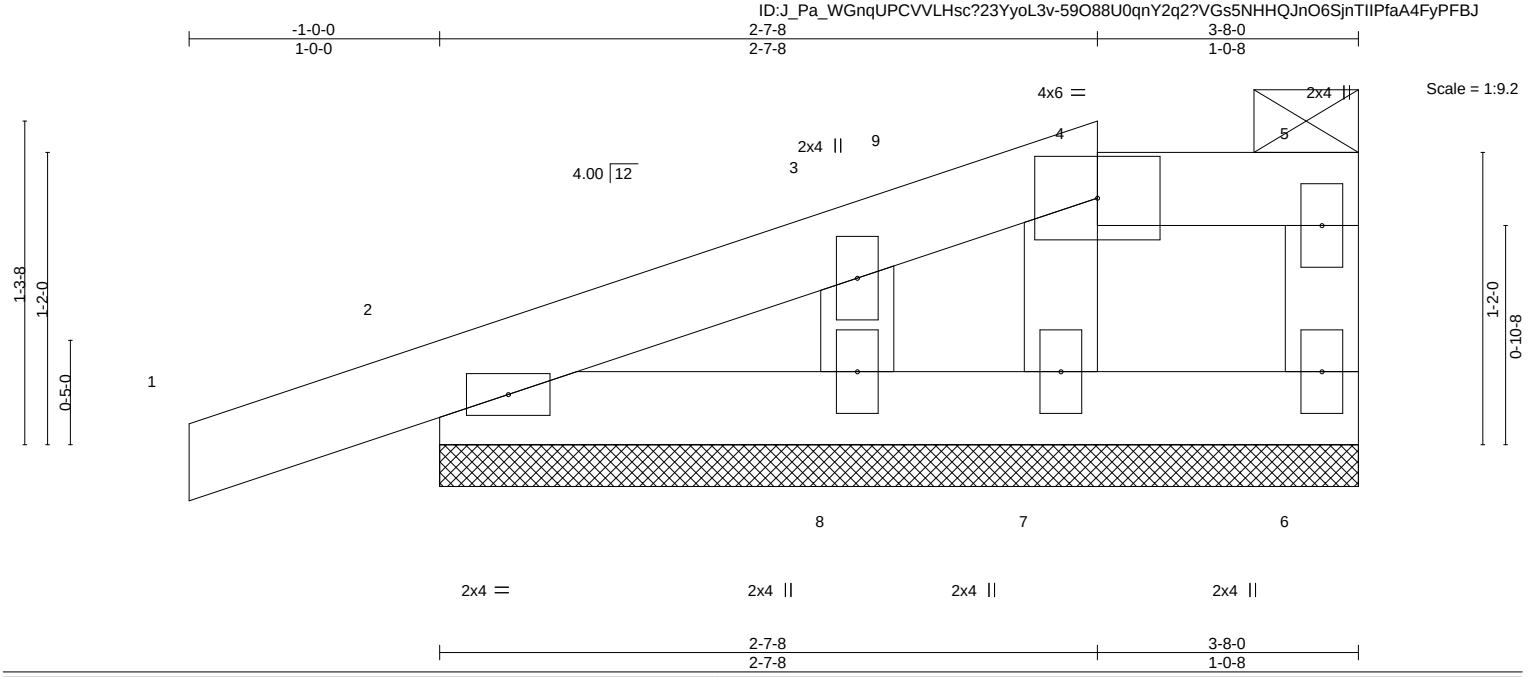


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 3-8-0.
(lb) - Max Horz 2=36(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 8 except 7=583(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-575/184

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
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 20.0psf 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, 6, 8, 7.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

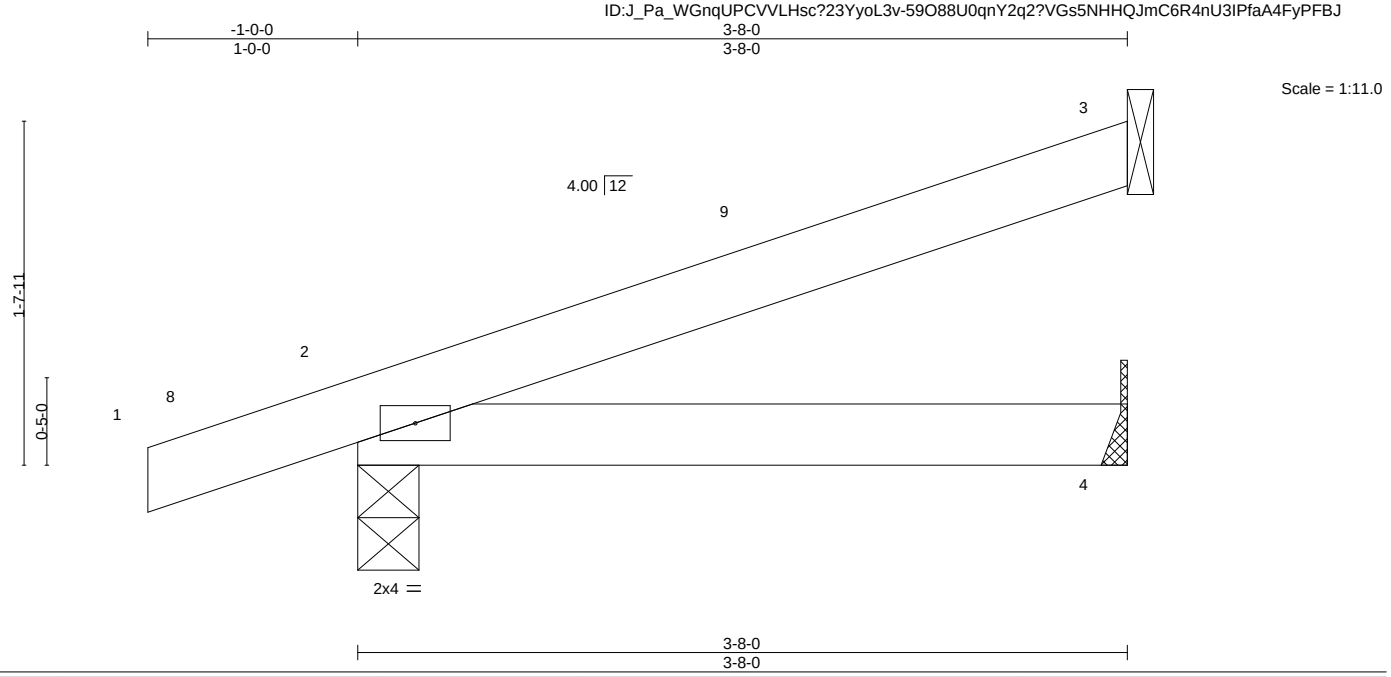
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 2-6=-20, 4-5=-60
Concentrated Loads (lb)
Vert: 4=-500

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	G02	JACK	2	1	I54953383
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:58 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-59O88U0qnY2q2?VGs5NHHQJmC6R4nU3IPfaA4FyPFBJ



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	0.17	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	4-7	>999	240	Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=51(LC 8)
Max Uplift 3=-29(LC 12), 2=-38(LC 8)
Max Grav 3=91(LC 1), 2=212(LC 1), 4=65(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	P01	COMMON	2	1	I54953384
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:00:59 2022 Page 1
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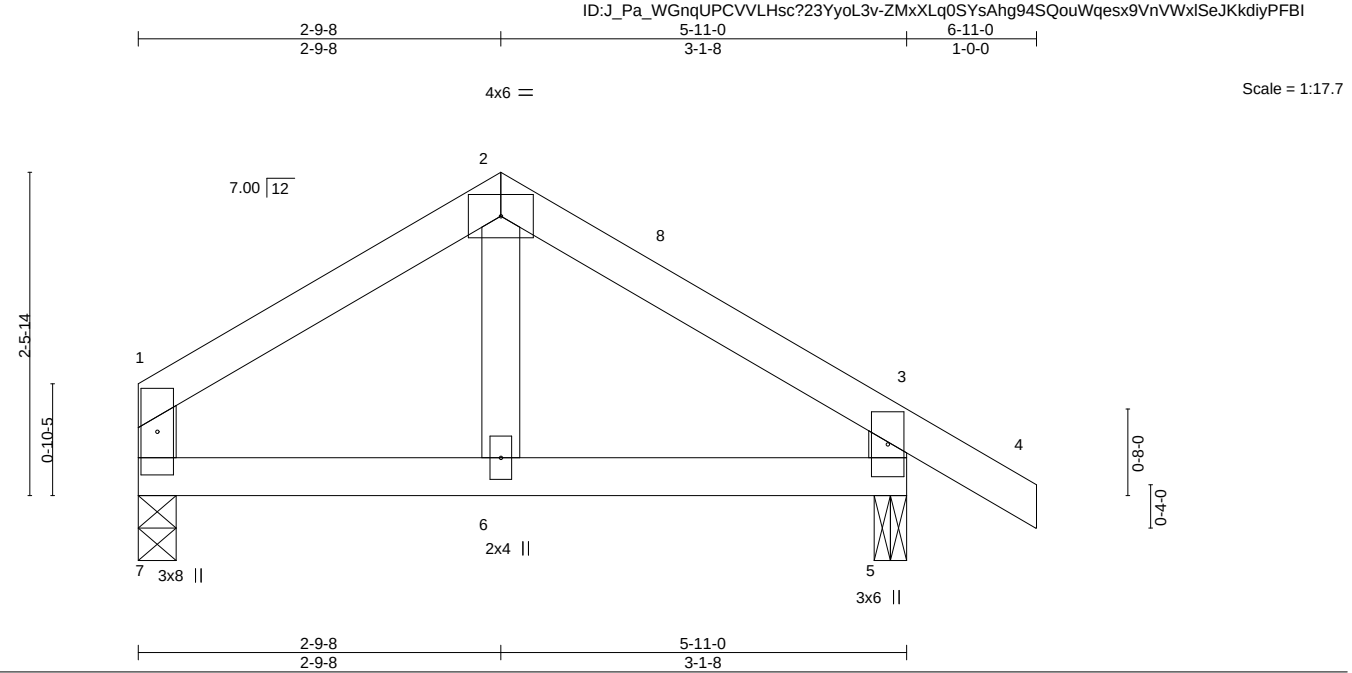

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.01	5-6	>999	240	Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-6: 2x4 SP No.3

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

REACTIONS. (size) 7=0-3-8, 5=0-3-0
Max Horz 7=-58(LC 8)
Max Uplift 7=-5(LC 12), 5=-24(LC 13)
Max Grav 7=218(LC 1), 5=300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-259/144

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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) 7, 5.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	P01SG	GABLE	1	1	I54953385
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:01:00 2022 Page 1
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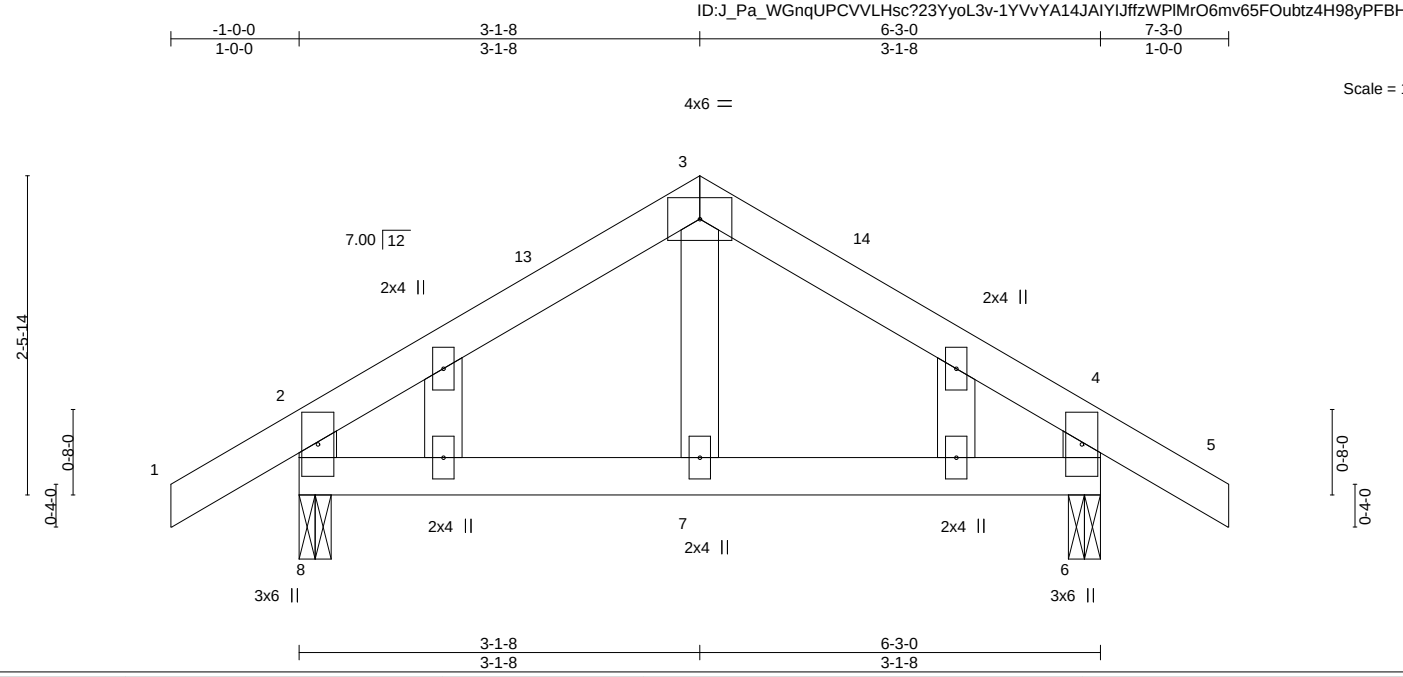

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.00	7	>999	240	Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-7: 2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

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

REACTIONS. (size) 8=0-3-0, 6=0-3-0
Max Horz 8=-60(LC 10)
Max Uplift 8=-24(LC 12), 6=-24(LC 13)
Max Grav 8=307(LC 1), 6=307(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-268/151, 4-6=-268/151

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-0-1, Interior(1) 2-0-1 to 3-1-8, Exterior(2) 3-1-8 to 7-2-15 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable studs spaced at 2-0-0 oc.
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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	P02	COMMON	2	1	I54953386
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:01:01 2022 Page 1
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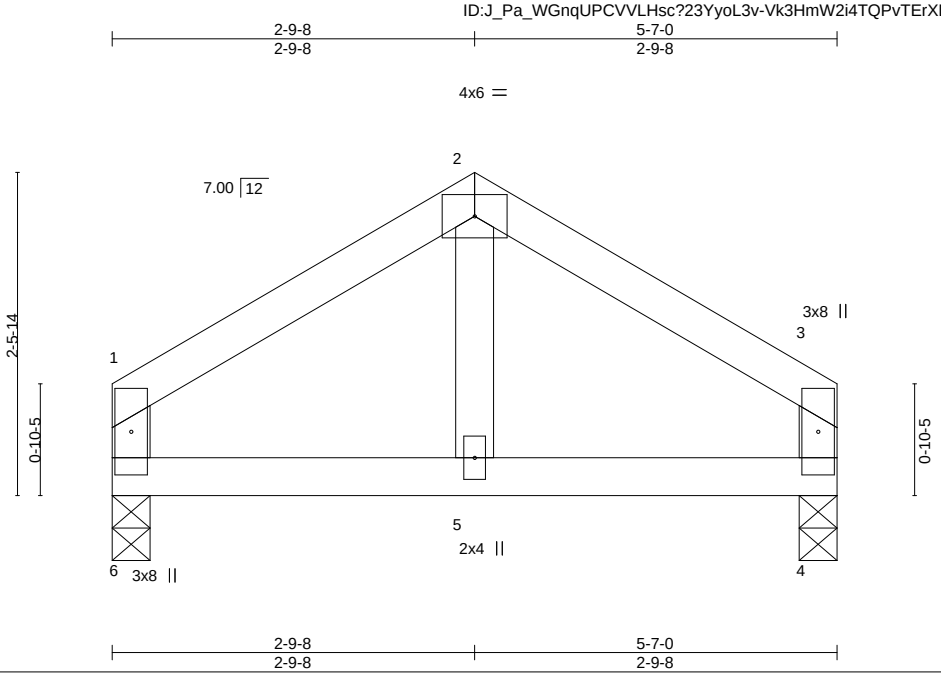

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.01	5	>999	240	Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-5: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=49(LC 9)
Max Uplift 6=-5(LC 12), 4=-5(LC 13)
Max Grav 6=212(LC 1), 4=212(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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) 6, 4.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	SP01	COMMON	4	1	I54953387

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:01:02 2022 Page 1
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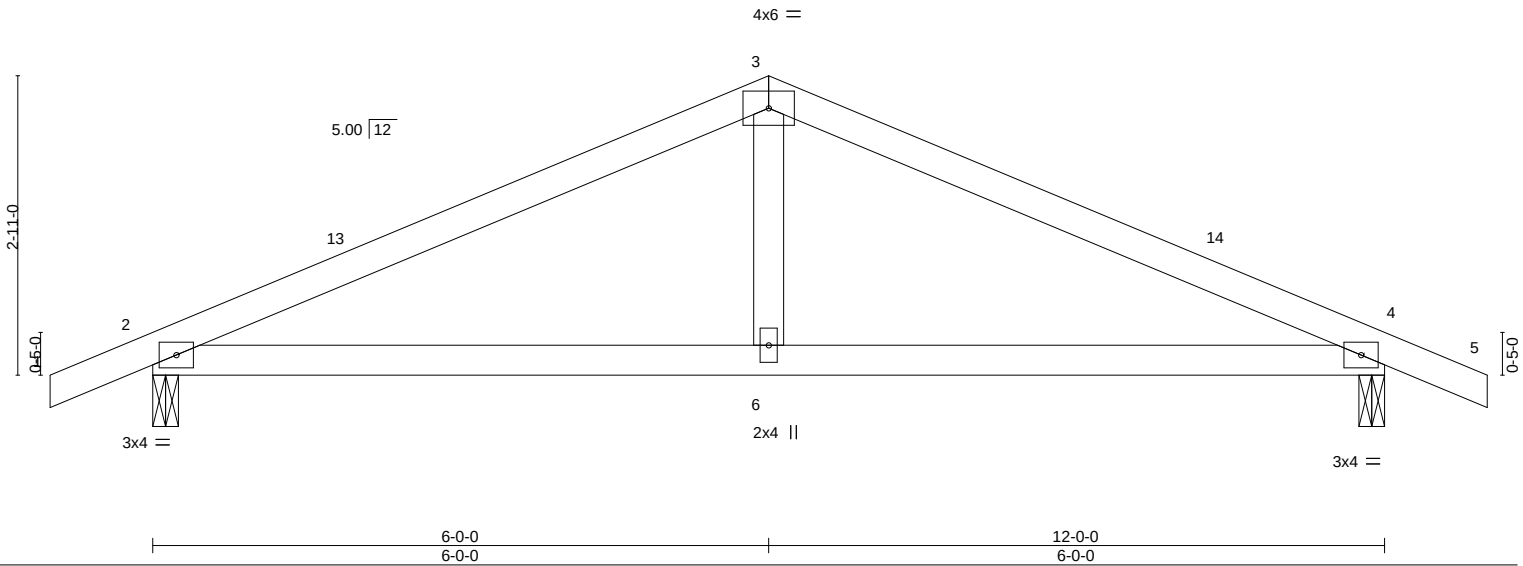

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.04	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.08	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	6-12	>999	240	Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=-50(LC 13)
Max Uplift 2=-95(LC 8), 4=-95(LC 9)
Max Grav 2=540(LC 1), 4=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-739/443, 3-4=-739/439
BOT CHORD 2-6=-336/625, 4-6=-336/625
WEBS 3-6=-203/271

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf 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, 4.

October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	SP01G	GABLE	1	1	I54953388
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:01:03 2022 Page 1
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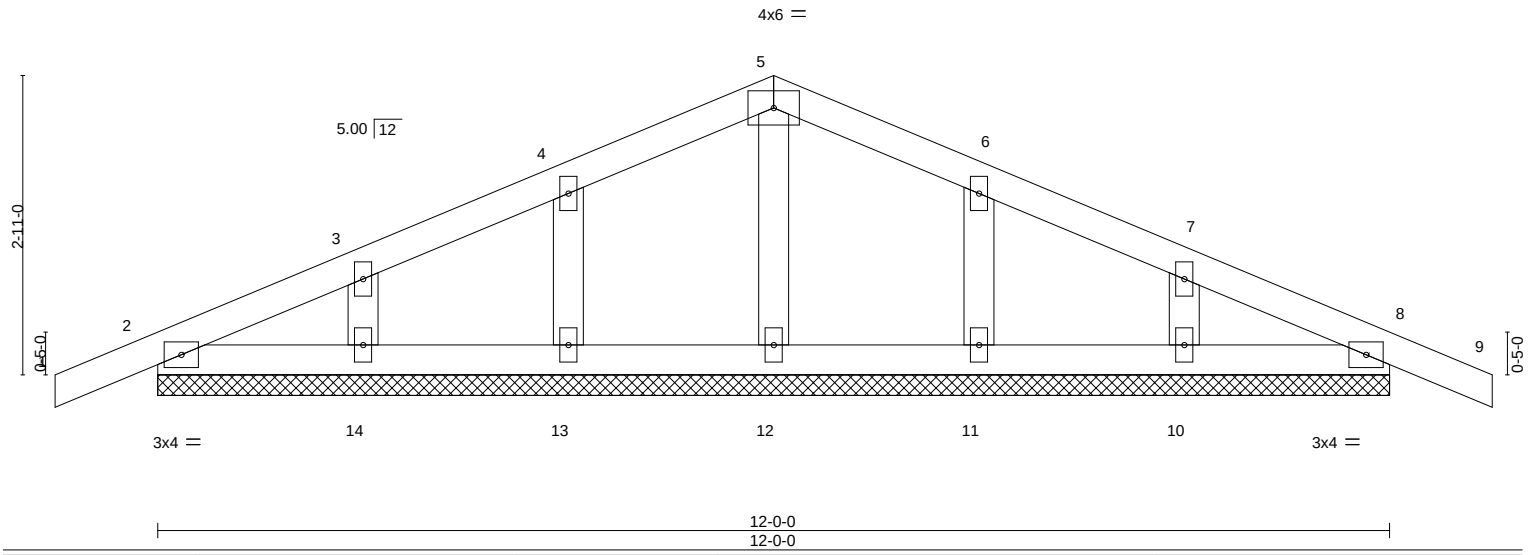

12-0-0
12-0-0

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	0.07	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.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. All bearings 12-0-0.
(lb) - Max Horz 2=-50(LC 13)
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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-0-0, Interior(1) 10-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf 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.

October 27,2022

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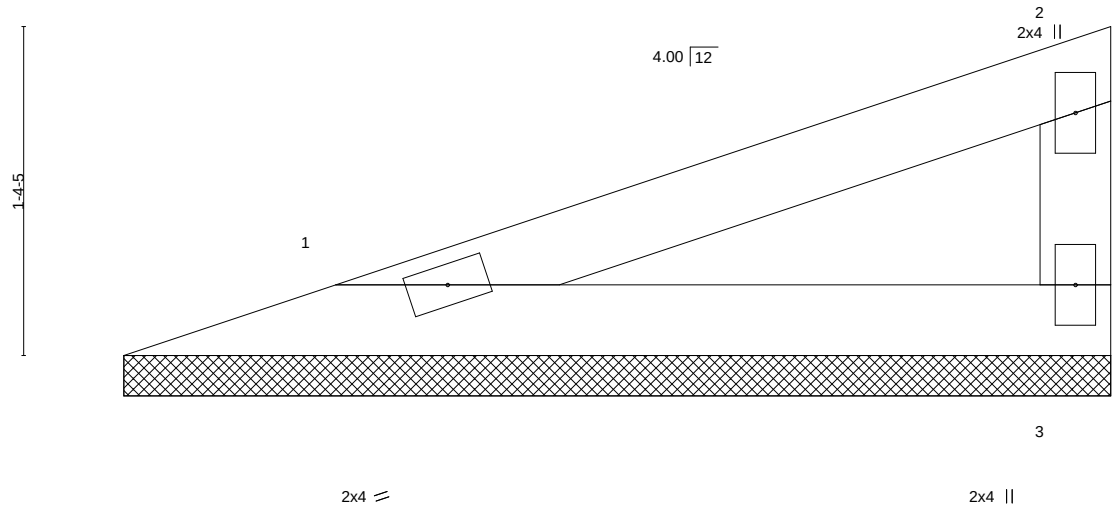
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	V01	GABLE	1	1	I54953389
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:01:03 2022 Page 1
ID:J_Pa_WGnqUPCVVLHsc?23YyoL3v-R7B1BB3yb5g79nODfezS_U0dx78bSlJ1ZxIxmTyPFBE

4-0-14
4-0-14

Scale = 1:9.5



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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	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: 12 lb	FT = 20%

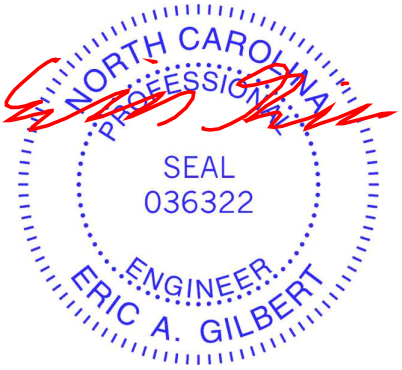
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-0-14, 3=4-0-14
Max Horz 1=34(LC 9)
Max Uplift 1=-8(LC 8), 3=-13(LC 12)
Max Grav 1=121(LC 1), 3=121(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 27,2022

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

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Lot 65 Providence Creek
MASTERFRENCH	V02	VALLEY	1	1	I54953390
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 27 10:01:04 2022 Page 1
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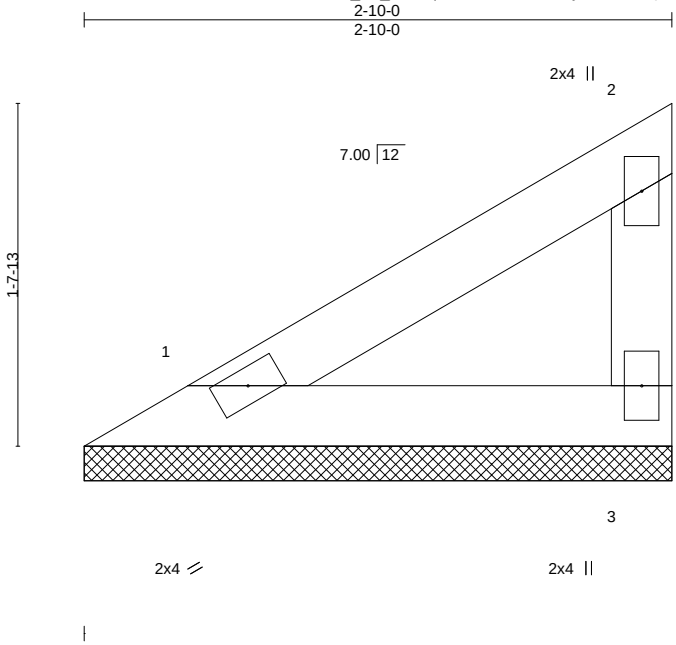

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=2-10-0, 3=2-10-0
Max Horz 1=38(LC 9)
Max Uplift 1=-2(LC 12), 3=-13(LC 12)
Max Grav 1=86(LC 1), 3=89(LC 19)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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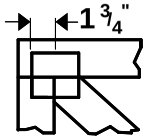
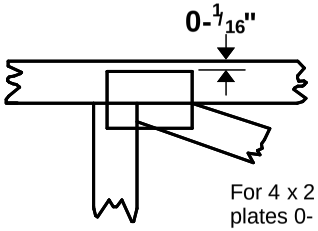
Symbols

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.

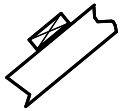
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

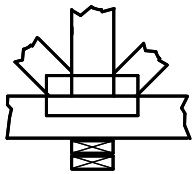
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

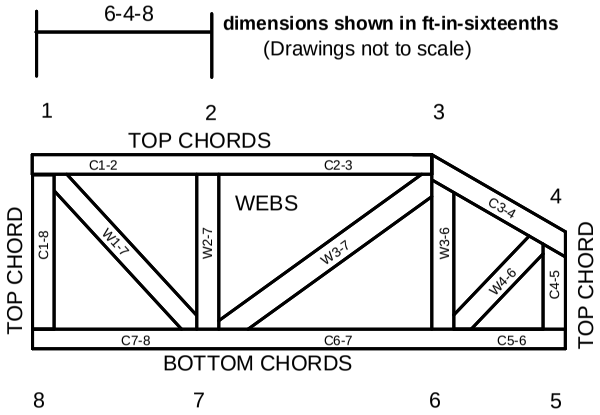


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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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.