ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master_FC
MATTAMY/SHENANDOAH/FRENCH COUNTRY

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: I55076434 thru I55076460

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

North Carolina COA: C-0844

November 3,2022

Gilbert, Eric

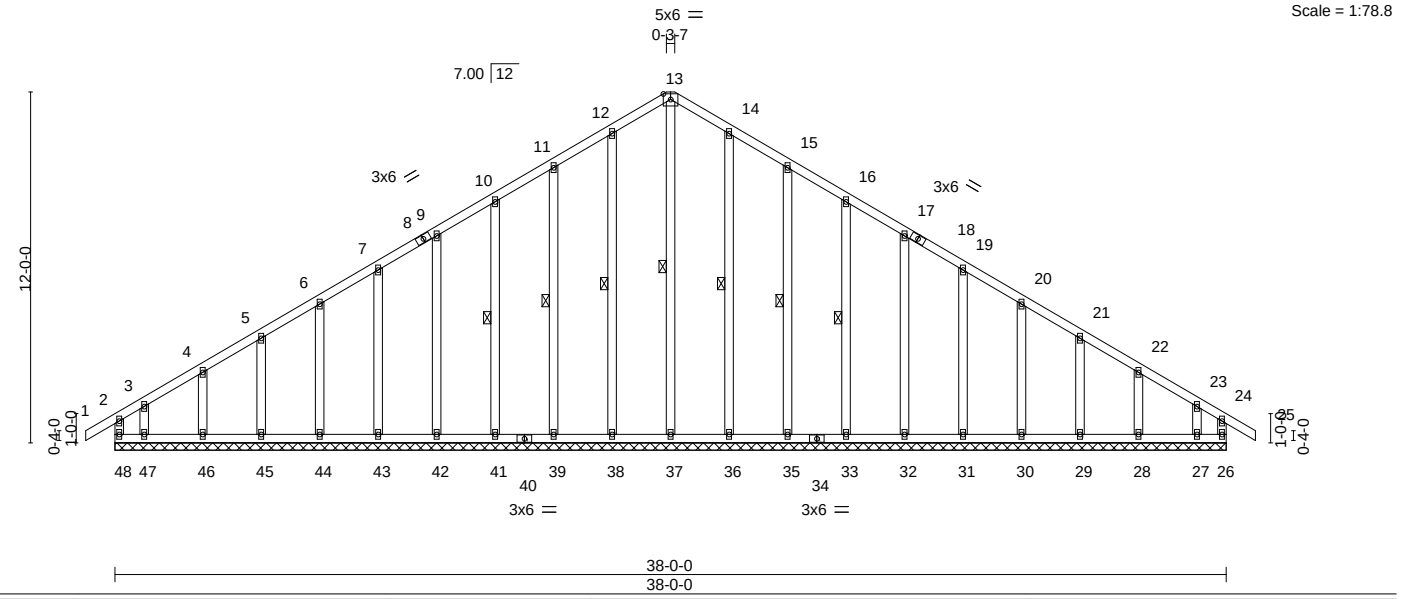
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A01G	GABLE	1	1	I55076434
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:03 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-8iw8WsNfMIgYejoe5K7VQLM8e1JUaI8KTfzmLZyMwP2

-1-0-0 19-0-0 38-0-0 39-0-0
1-0-0 19-0-0 19-0-0 1-0-0

Scale = 1:78.8



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	0.21	Vert(LL)	-0.00	25	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 297 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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 13-37, 12-38, 11-39, 10-41, 14-36, 15-35, 16-33

REACTIONS. All bearings 38-0-0.
(lb) - Max Horz 48=-252(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 26, 38, 39, 41, 42, 43, 44, 45, 46, 36, 35, 33, 32, 31, 30, 29, 28 except 48=-179(LC 8), 47=-182(LC 12), 27=-150(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 26, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 36, 35, 33, 32, 31, 30, 29, 28, 27 except 48=256(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-234/276, 13-14=-234/276

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) -0-11-15 to 3-9-10, Exterior(2) 3-9-10 to 19-0-0, Corner(3) 19-0-0 to 23-9-10, Exterior(2) 23-9-10 to 38-11-15 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) 26, 38, 39, 41, 42, 43, 44, 45, 46, 36, 35, 33, 32, 31, 30, 29, 28 except (jt=lb) 48=179, 47=182, 27=150.

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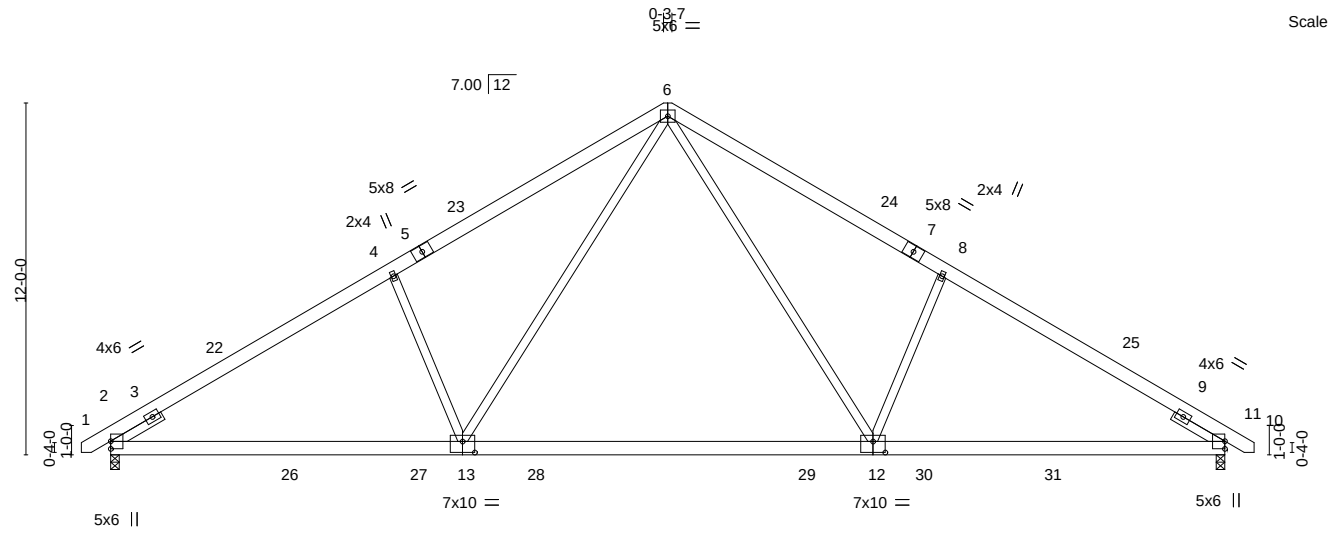
Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A02	COMMON	5	1	I55076435
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:05 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-452uxYOvuvwGt1y1ClAzVmRPIqo628jdxzStQRyMwP0

-1-0-0 9-7-12 19-0-0 28-4-4 38-0-0 39-0-0
1-0-0 9-7-12 9-4-4 9-4-4 9-7-12 1-0-0

Scale = 1:78.6



12-0-0 26-0-0 38-0-0
12-0-0 14-0-0 12-0-0

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8], [13:0-5-0,0-4-8]

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	0.52	Vert(LL)	-0.43	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.69	12-13	>661	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	13-16	>999	240	Weight: 261 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
8-12,4-13: 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=227(LC 11)
Max Grav 2=1708(LC 19), 10=1708(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2508/105, 4-6=-2373/188, 6-8=-2373/188, 8-10=-2508/105
BOT CHORD 2-13=0/2224, 12-13=0/1457, 10-12=0/2053
WEBS 6-12=-58/1128, 8-12=-506/212, 6-13=-58/1128, 4-13=-506/211

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 3-11-10, Interior(1) 3-11-10 to 19-0-0, Exterior(2) 19-0-0 to 25-9-7, Interior(1) 25-9-7 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.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A02T	COFFER	5	1	I55076436
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:06 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-YHcH8uPXfD27VBXDmShC2z_bJE9onU6m9dBQyuyMwP?

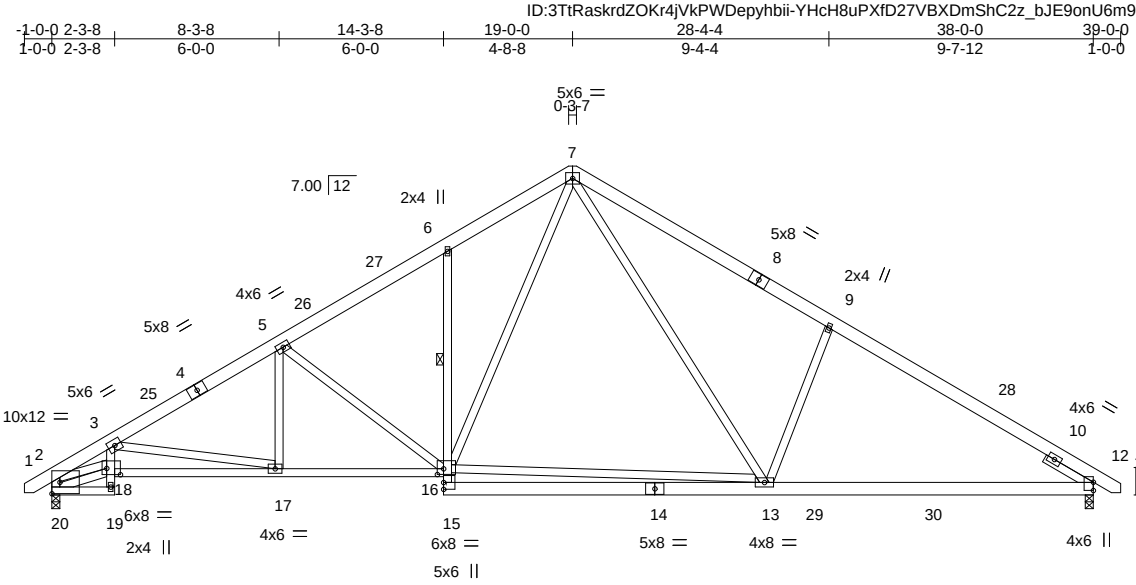

Plate Offsets (X,Y)-- [16:0-2-12,0-2-8], [18:0-6-0,0-2-12]

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	0.51	Vert(LL)	-0.15	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.34	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	16-17	>999	240	Weight: 298 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	19-20,16-18: 2x4 SP No.2, 3-19,6-15: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except*
	7-13: 2x4 SP No.2
SLIDER	Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 1 Row at midpt 6-16

REACTIONS. (size) 11=0-3-8, 20=0-3-8
Max Horz 20=-241(LC 10)
Max Grav 11=1564(LC 1), 20=1573(LC 1)

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

TOP CHORD	2-3=-2663/70, 3-5=-2477/84, 5-6=-1983/133, 6-7=-1912/215, 7-9=-2080/194, 9-11=-2249/108, 2-20=-1540/72
BOT CHORD	17-18=-162/2457, 16-17=0/2109, 6-16=-283/126, 13-15=0/383, 11-13=0/1844
WEBS	3-17=-354/172, 5-16=-619/111, 13-16=0/911, 7-16=-72/910, 7-13=-80/920, 9-13=-523/211, 2-18=-36/2041, 5-17=0/323

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 3-11-10, Interior(1) 3-11-10 to 19-0-0, Exterior(2) 19-0-0 to 25-9-7, Interior(1) 25-9-7 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.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A03	COMMON	4	1	I55076437
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 15:18:55 2022 Page 1
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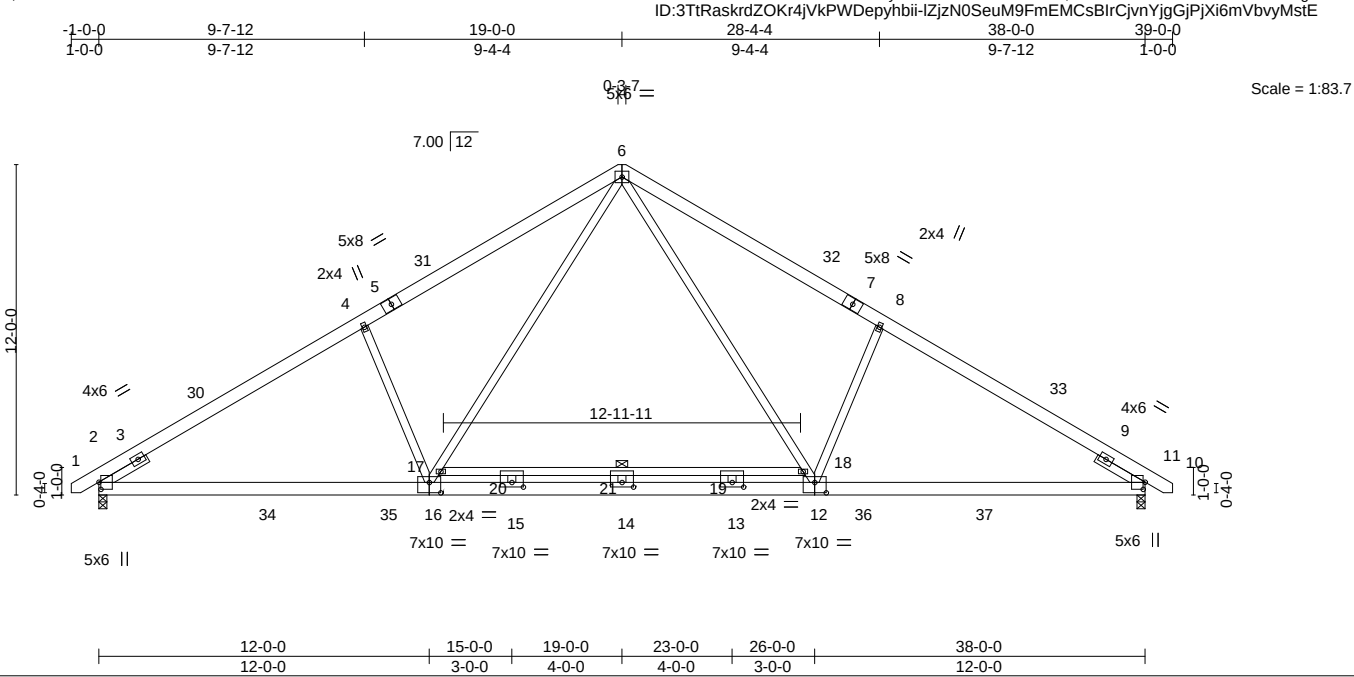

Plate Offsets (X,Y)-- [2:0-3-2,0-0-14], [10:0-3-2,0-0-14], [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [14:0-5-0,0-2-0], [15:0-5-0,0-2-0], [16:0-5-0,0-4-8]

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	0.66	Vert(LL)	-0.61	14	>753	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.80	14	>569	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	16-24	>999	240	Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 6-12,6-16,17-18: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 17-18

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-227(LC 10)
Max Grav 2=1772(LC 19), 10=1772(LC 20)

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

TOP CHORD	2-3=-1090/0, 3-30=-2625/72, 4-30=-2442/106, 4-5=-2490/138, 5-31=-2422/138, 6-31=-2363/189, 6-32=-2363/189, 7-32=-2422/138, 7-8=-2490/138, 8-33=-2442/106, 9-33=-2625/72, 9-10=-1089/0
BOT CHORD	2-34=0/2324, 34-35=0/2324, 16-35=0/2324, 15-16=0/1702, 14-15=0/1702, 13-14=0/1702, 12-13=0/1702, 12-36=0/2153, 36-37=0/2153, 10-37=0/2153
WEBS	6-18=-58/1200, 12-18=-61/1077, 8-12=-507/209, 16-17=-62/1077, 6-17=-58/1200, 4-16=-507/209

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 3-11-10, Interior(1) 3-11-10 to 19-0-0, Exterior(2) 19-0-0 to 25-9-7, Interior(1) 25-9-7 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

7) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 6-11=-60, 22-26=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-6=-50, 6-11=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-11=-20, 22-26=-40, 17-18=-40(F)

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, 2-30=17, 6-30=12, 6-32=17, 10-32=12, 10-11=8, 22-26=-12
Horz: 1-2=-44, 2-30=-29, 6-30=-24, 6-32=29, 10-32=24, 10-11=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, 2-31=12, 6-31=17, 6-33=12, 10-33=17, 10-11=32, 22-26=-12
Horz: 1-2=-20, 2-31=-24, 6-31=-29, 6-33=24, 10-33=29, 10-11=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, 2-6=-44, 6-10=-44, 10-11=-40, 22-26=-20
Horz: 1-2=-20, 2-6=24, 6-10=-24, 10-11=-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, 2-6=-44, 6-10=-44, 10-11=-0, 22-26=-20
Horz: 1-2=20, 2-6=24, 6-10=-24, 10-11=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, 2-6=-14, 6-10=5, 10-11=1, 22-26=-12
Horz: 1-2=-8, 2-6=2, 6-10=17, 10-11=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, 2-6=5, 6-10=-14, 10-11=-4, 22-26=-12
Horz: 1-2=-13, 2-6=-17, 6-10=-2, 10-11=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, 2-6=-31, 6-10=-11, 10-11=-7, 22-26=-20
Horz: 1-2=7, 2-6=11, 6-10=9, 10-11=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, 2-6=-11, 6-10=-31, 10-11=-27, 22-26=-20
Horz: 1-2=-13, 2-6=-9, 6-10=-11, 10-11=-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, 4-6=9, 6-10=2, 10-11=-3, 22-26=-12
Horz: 1-2=-26, 2-4=-31, 4-6=-21, 6-10=14, 10-11=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, 2-6=2, 6-8=9, 8-10=19, 10-11=14, 22-26=-12
Horz: 1-2=-9, 2-6=-14, 6-8=21, 8-10=31, 10-11=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, 2-6=9, 6-10=2, 10-11=-3, 22-26=-12
Horz: 1-2=-17, 2-6=-21, 6-10=14, 10-11=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, 2-6=2, 6-10=9, 10-11=5, 22-26=-12
Horz: 1-2=-9, 2-6=-14, 6-10=21, 10-11=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, 4-6=-7, 6-10=-15, 10-11=-11, 22-26=-20
Horz: 1-2=-26, 2-4=-22, 4-6=-13, 6-10=5, 10-11=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, 2-6=-15, 6-8=-7, 8-10=2, 10-11=6, 22-26=-20
Horz: 1-2=-9, 2-6=-5, 6-8=13, 8-10=22, 10-11=26

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-11=-20, 22-34=-20, 34-35=-60, 35-36=-20, 36-37=-60, 26-37=-20, 17-18=-40(F)

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, 2-6=-58, 6-10=-44, 10-11=-40, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)
Horz: 1-2=5, 2-6=8, 6-10=6, 10-11=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, 2-6=-44, 6-10=-58, 10-11=-55, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)
Horz: 1-2=-10, 2-6=-6, 6-10=-8, 10-11=-5

Continued on page 3

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, 4-6=-41, 6-10=-46, 10-11=-43, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)
Horz: 1-2=-20, 2-4=-16, 4-6=-9, 6-10=4, 10-11=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, 2-6=-46, 6-8=-41, 8-10=-34, 10-11=-30, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)
Horz: 1-2=-7, 2-6=-4, 6-8=9, 8-10=16, 10-11=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-11=-20, 22-26=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 6-11=-60, 22-26=-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: 1-6=-50, 6-11=-20, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)

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: 1-6=-20, 6-11=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 17-18=-30(F)

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A04	COMMON	1	1	I55076438
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 15:19:28 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-HwCRIJsK6VJZDINYIdOb1hnRr0w?xKqOIlGkEUyMssj

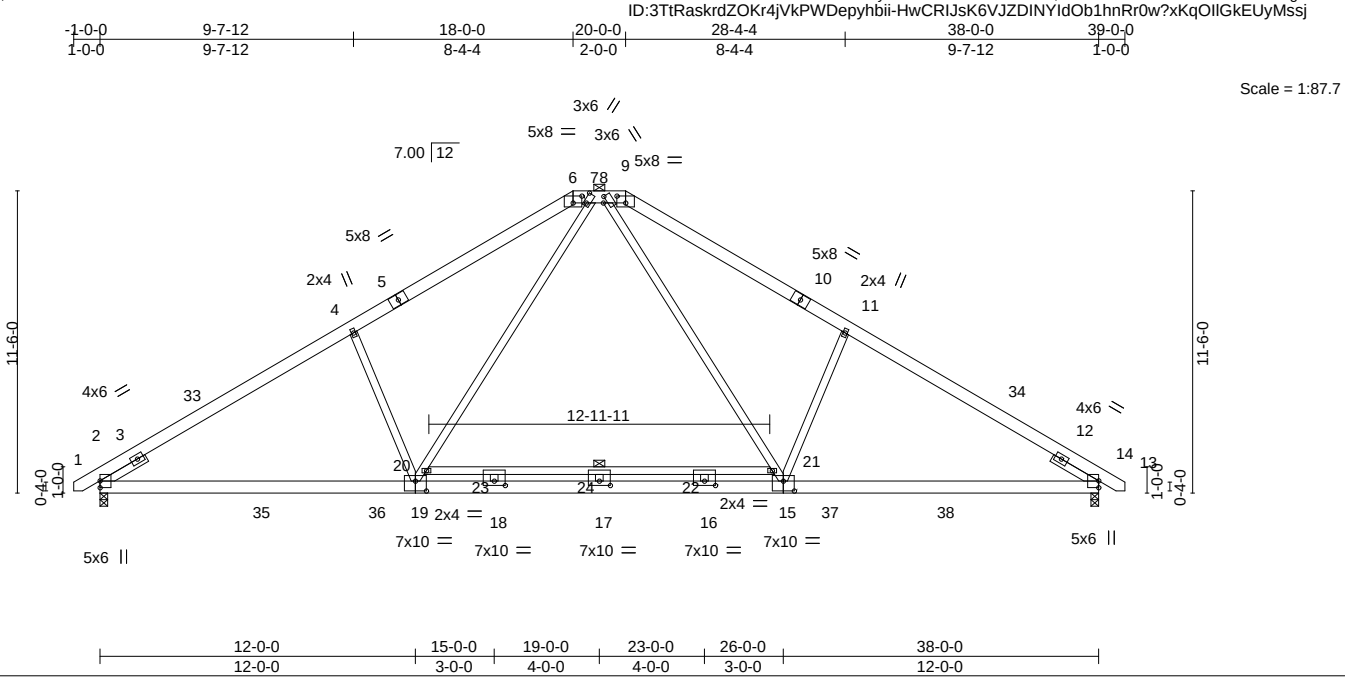

Plate Offsets (X,Y)-- [6:0-4-0,0-3-3], [7:0-4-10,0-1-4], [8:0-2-6,0-1-12], [9:0-4-0,0-3-3], [15:0-5-0,0-4-8], [16:0-5-0,0-2-0], [17:0-5-0,0-2-0], [18:0-5-0,0-2-0], [19:0-5-0,0-4-8]

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	0.62	Vert(LL)	-0.61	17	>746	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.81	17	>564	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	19-27	>999	240	Weight: 280 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 8-15,7-19,20-21: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-10 oc purlins, except 2-0-0 oc purlins (4-5-4 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 20-21

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-217(LC 10)
Max Grav 2=1757(LC 19), 13=1757(LC 20)

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

TOP CHORD	2-3=-1054/0, 3-33=-2590/81, 4-33=-2487/115, 4-5=-2451/145, 5-6=-2340/191, 9-10=-2341/191, 10-11=-2452/145, 11-34=-2487/115, 12-34=-2590/81, 12-13=-1054/0, 6-7=-2037/207, 7-8=-1413/195, 8-9=-2037/207
BOT CHORD	2-35=0/2282, 35-36=0/2282, 19-36=0/2282, 18-19=0/1673, 17-18=0/1673, 16-17=0/1673, 15-16=0/1673, 15-37=0/2120, 37-38=0/2120, 13-38=0/2120
WEBS	8-21=-54/1190, 15-21=-57/1062, 11-15=-487/204, 19-20=-58/1062, 7-20=-53/1189, 4-19=-487/204

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 3-11-10, Interior(1) 3-11-10 to 18-0-0, Exterior(2) 18-0-0 to 26-9-7, Interior(1) 26-9-7 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) 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.
7) N/A
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 9-14=-60, 25-29=-20, 6-9=-60

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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: 1-6=-50, 9-14=-50, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-50

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-20, 25-29=-40, 20-21=-40(F), 6-9=-20

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, 2-33=17, 6-33=12, 9-10=17, 10-13=12, 13-14=8, 25-29=-12, 6-9=20
Horz: 1-2=-44, 2-33=-29, 6-33=-24, 9-10=29, 10-13=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, 2-5=12, 5-6=17, 9-34=12, 13-34=17, 13-14=32, 25-29=-12, 6-9=20
Horz: 1-2=-20, 2-5=-24, 5-6=-29, 9-34=24, 13-34=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, 2-6=-44, 9-13=-44, 13-14=-40, 25-29=-20, 6-9=-29
Horz: 1-2=-20, 2-6=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, 2-6=-44, 9-13=-44, 13-14=-0, 25-29=-20, 6-9=-29
Horz: 1-2=20, 2-6=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, 2-6=-14, 9-13=5, 13-14=1, 25-29=-12, 6-9=19
Horz: 1-2=-8, 2-6=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, 2-6=5, 9-13=-14, 13-14=-4, 25-29=-12, 6-9=19
Horz: 1-2=-13, 2-6=-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, 2-6=-31, 9-13=-11, 13-14=-7, 25-29=-20, 6-9=2
Horz: 1-2=7, 2-6=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, 2-6=-11, 9-13=-31, 13-14=-27, 25-29=-20, 6-9=2
Horz: 1-2=-13, 2-6=-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, 2-4=19, 4-6=9, 9-13=2, 13-14=-3, 25-29=-12, 6-9=2
Horz: 1-2=-26, 2-4=-31, 4-6=-21, 9-13=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, 2-6=2, 9-11=9, 11-13=19, 13-14=14, 25-29=-12, 6-9=2
Horz: 1-2=-9, 2-6=-14, 9-11=21, 11-13=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, 2-6=9, 9-13=2, 13-14=-3, 25-29=-12, 6-9=2
Horz: 1-2=-17, 2-6=-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, 2-6=2, 9-13=9, 13-14=5, 25-29=-12, 6-9=2
Horz: 1-2=-9, 2-6=-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, 2-4=2, 4-6=-7, 9-13=-15, 13-14=-11, 25-29=-20, 6-9=-15
Horz: 1-2=-26, 2-4=-22, 4-6=-13, 9-13=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, 2-6=-15, 9-11=-7, 11-13=2, 13-14=6, 25-29=-20, 6-9=-15
Horz: 1-2=-9, 2-6=-5, 9-11=13, 11-13=22, 13-14=26

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-20, 25-35=-20, 35-36=-60, 36-37=-20, 37-38=-60, 29-38=-20, 20-21=-40(F), 6-9=-20

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, 2-6=-58, 9-13=-44, 13-14=-40, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-34
Horz: 1-2=5, 2-6=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

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-6=-44, 9-13=-58, 13-14=-55, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-34
Horz: 1-2=-10, 2-6=-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, 2-4=-34, 4-6=-41, 9-13=-46, 13-14=-43, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-46
Horz: 1-2=-20, 2-4=-16, 4-6=-9, 9-13=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, 2-6=-46, 9-11=-41, 11-13=-34, 13-14=-30, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-46
Horz: 1-2=-7, 2-6=-4, 9-11=9, 11-13=16, 13-14=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 9-14=-20, 25-29=-20, 6-9=-60

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-60, 25-29=-20, 6-9=-60

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: 1-6=-50, 9-14=-20, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-50

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: 1-6=-20, 9-14=-50, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-50

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A05	COMMON	1	1	I55076439
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 15:19:37 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-WfFrBNz_?GSlohaGJ02ivafxBe__YPBjMeyj3TyMssa

-1-0-0	9-7-12	16-0-0	22-0-0	28-4-4	38-0-0	39-0-0
1-0-0	9-7-12	6-4-4	6-0-0	6-4-4	9-7-12	1-0-0

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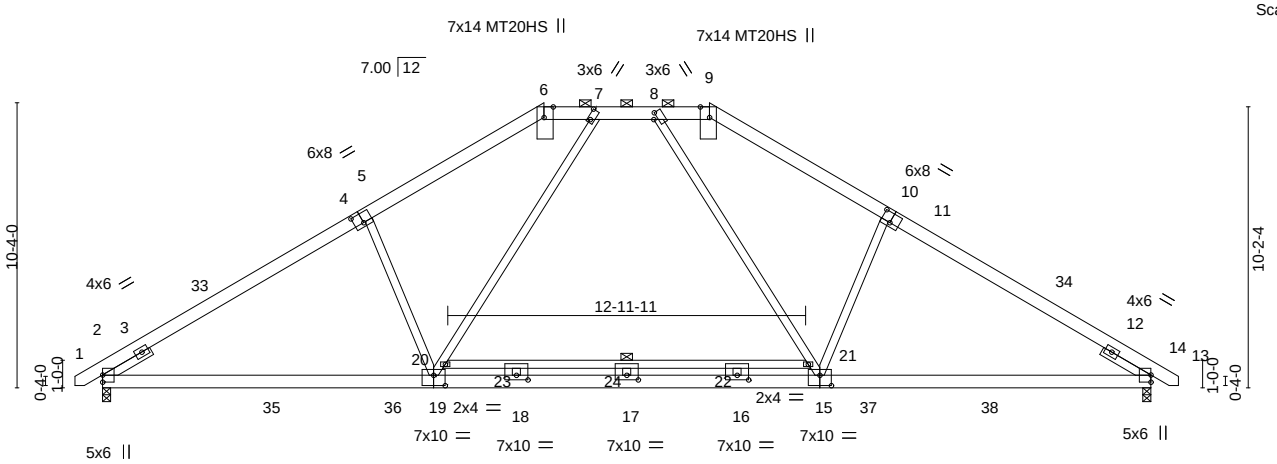

12-0-0	15-0-0	19-0-0	23-0-0	26-0-0	38-0-0
12-0-0	3-0-0	4-0-0	4-0-0	3-0-0	12-0-0

Plate Offsets (X,Y)-- [4:0-4-0,0-4-4], [6:0-4-10,Edge], [7:0-4-10,0-1-4], [8:0-2-6,0-1-12], [9:0-4-10,Edge], [11:0-4-0,0-4-4], [15:0-5-0,0-4-8], [16:0-5-0,0-2-0], [17:0-5-0,0-2-0], [18:0-5-0,0-2-0], [19:0-5-0,0-4-8]

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	0.71	Vert(LL)	-0.68	17	>668	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.94	17	>487	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	19-27	>999	240	Weight: 273 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except*
	6-9: 2x6 SP DSS
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.3 *Except*
	8-15,7-19,20-21: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-1 oc purlins, except 2-0-0 oc purlins (4-11-2 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 20-21

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-192(LC 10)
Max Grav 2=1726(LC 19), 13=1726(LC 20)

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

TOP CHORD	2-3=-949/0, 3-33=-2522/104, 4-33=-2396/136, 4-5=-2322/138, 5-6=-2333/200, 9-10=-2333/200, 10-11=-2322/138, 11-34=-2396/136, 12-34=-2522/104, 12-13=-949/0, 6-7=-1986/202, 7-8=-1531/200, 8-9=-1986/202
BOT CHORD	2-35=-11/2170, 35-36=-11/2170, 19-36=-11/2170, 18-19=0/1686, 17-18=0/1686, 16-17=0/1686, 15-16=0/1686, 15-37=-15/2070, 37-38=-15/2070, 13-38=-15/2070
WEBS	8-21=-49/1007, 15-21=-53/896, 10-15=-355/199, 19-20=-53/897, 7-20=-48/1007, 5-19=-355/199

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 3-11-10, Interior(1) 3-11-10 to 16-0-0, Exterior(2) 16-0-0 to 28-9-7, Interior(1) 28-9-7 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 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, with BCDL = 10.0psf.
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.
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)

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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: 1-6=-60, 9-14=-60, 25-29=-20, 6-9=-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: 1-6=-50, 9-14=-50, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-50
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-20, 9-14=-20, 25-29=-40, 20-21=-40(F), 6-9=-20
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, 2-33=17, 6-33=12, 9-11=17, 11-13=12, 13-14=8, 25-29=-12, 6-9=20
   Horz: 1-2=-44, 2-33=-29, 6-33=-24, 9-11=29, 11-13=24, 13-14=20, 6-7=32, 8-9=-32
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, 4-6=17, 9-34=12, 13-34=17, 13-14=32, 25-29=-12, 6-9=20
   Horz: 1-2=-20, 2-4=-24, 4-6=-29, 9-34=24, 13-34=29, 13-14=44, 6-7=32, 8-9=-32
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, 2-6=-44, 9-13=-44, 13-14=-40, 25-29=-20, 6-9=-29
   Horz: 1-2=-20, 2-6=24, 9-13=-24, 13-14=-20, 6-7=-9, 8-9=9
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, 2-6=-44, 9-13=-44, 13-14=-0, 25-29=-20, 6-9=-29
   Horz: 1-2=20, 2-6=24, 9-13=-24, 13-14=20, 6-7=-9, 8-9=9
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-6=-14, 9-13=5, 13-14=1, 25-29=-12, 6-9=19
   Horz: 1-2=-8, 2-6=2, 9-13=17, 13-14=13, 6-7=31, 8-9=-31
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-6=5, 9-13=-14, 13-14=-4, 25-29=-12, 6-9=19
   Horz: 1-2=-13, 2-6=-17, 9-13=-2, 13-14=8, 6-7=31, 8-9=-31
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-6=-31, 9-13=-11, 13-14=-7, 25-29=-20, 6-9=2
    Horz: 1-2=7, 2-6=11, 9-13=9, 13-14=13, 6-7=22, 8-9=-22
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-6=-11, 9-13=-31, 13-14=-27, 25-29=-20, 6-9=2
    Horz: 1-2=-13, 2-6=-9, 9-13=-11, 13-14=-7, 6-7=22, 8-9=-22
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, 2-5=19, 5-6=9, 9-13=2, 13-14=-3, 25-29=-12, 6-9=2
    Horz: 1-2=-26, 2-5=-31, 5-6=-21, 9-13=14, 13-14=9, 6-7=14, 8-9=-14
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, 2-6=2, 9-10=9, 10-13=19, 13-14=14, 25-29=-12, 6-9=2
    Horz: 1-2=-9, 2-6=-14, 9-10=21, 10-13=31, 13-14=26, 6-7=14, 8-9=-14
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, 2-6=9, 9-13=2, 13-14=-3, 25-29=-12, 6-9=2
    Horz: 1-2=-17, 2-6=-21, 9-13=14, 13-14=9, 6-7=14, 8-9=-14
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, 2-6=2, 9-13=9, 13-14=5, 25-29=-12, 6-9=2
    Horz: 1-2=-9, 2-6=-14, 9-13=21, 13-14=17, 6-7=14, 8-9=-14
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, 2-5=2, 5-6=-7, 9-13=-15, 13-14=-11, 25-29=-20, 6-9=-15
    Horz: 1-2=-26, 2-5=-22, 5-6=-13, 9-13=5, 13-14=9, 6-7=5, 8-9=-5
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, 2-6=-15, 9-10=-7, 10-13=2, 13-14=6, 25-29=-20, 6-9=-15
    Horz: 1-2=-9, 2-6=-5, 9-10=13, 10-13=22, 13-14=26, 6-7=5, 8-9=-5
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-6=-20, 9-14=-20, 25-35=-20, 35-36=-60, 36-37=-20, 37-38=-60, 29-38=-20, 20-21=-40(F), 6-9=-20
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, 2-6=-58, 9-13=-44, 13-14=-40, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-34
    Horz: 1-2=5, 2-6=8, 9-13=6, 13-14=10, 6-7=16, 8-9=-16

Continued on page 3

LOAD CASE(S)

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, 2-6=-44, 9-13=-58, 13-14=-55, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-34
Horz: 1-2=-10, 2-6=-6, 9-13=-8, 13-14=-5, 6-7=16, 8-9=-16

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, 2-5=-34, 5-6=-41, 9-13=-46, 13-14=-43, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-46
Horz: 1-2=-20, 2-5=-16, 5-6=-9, 9-13=4, 13-14=7, 6-7=4, 8-9=-4

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, 2-6=-46, 9-10=-41, 10-13=-34, 13-14=-30, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-46
Horz: 1-2=-7, 2-6=-4, 9-10=9, 10-13=16, 13-14=20, 6-7=4, 8-9=-4

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 9-14=-20, 25-29=-20, 6-9=-60

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-60, 25-29=-20, 6-9=-60

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: 1-6=-50, 9-14=-20, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-50

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: 1-6=-20, 9-14=-50, 25-35=-20, 35-36=-50, 36-37=-20, 37-38=-50, 29-38=-20, 20-21=-30(F), 6-9=-50

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A06	COMMON	1	1	I55076440
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 15:20:03 2022 Page 1
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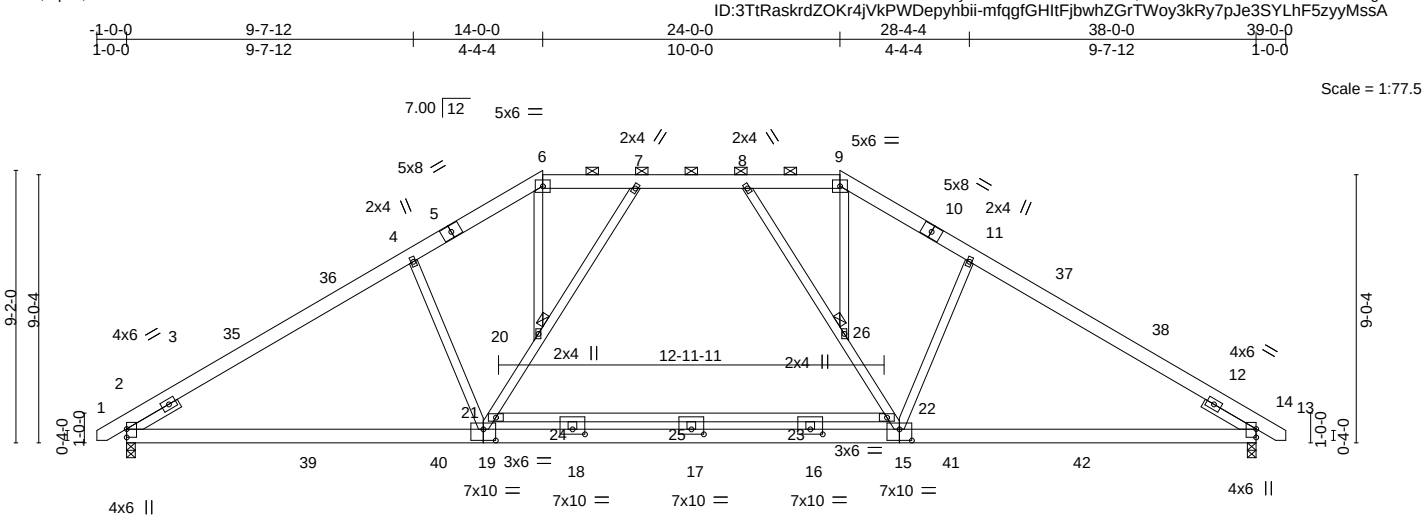

Plate Offsets (X,Y)-- [15:0-5-0,0-4-8], [16:0-5-0,0-2-0], [17:0-5-0,0-2-0], [18:0-5-0,0-2-0], [19:0-5-0,0-4-8]

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	0.56	Vert(LL)	-0.21	17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.49	17	>931	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	19-29	>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 *Except*
	8-15,7-19: 2x4 SP No.1, 21-22: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-15 oc purlins, except 2-0-0 oc purlins (4-10-12 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 20, 26

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-169(LC 10)
Max Grav 2=1570(LC 1), 13=1570(LC 1)

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

TOP CHORD	2-3=-949/0, 3-35=-2219/113, 35-36=-2081/121, 4-36=-2043/147, 4-5=-2006/173, 5-6=-1888/195, 9-10=-1888/195, 10-11=-2006/173, 11-37=-2043/147, 37-38=-2081/121, 12-38=-2219/113, 12-13=-949/0, 6-7=-1696/185, 7-8=-1679/210, 8-9=-1696/185
BOT CHORD	2-39=-17/1798, 39-40=-17/1798, 19-40=-17/1798, 18-19=-23/840, 17-18=-23/840, 16-17=-23/840, 15-16=-23/840, 15-41=-21/1798, 41-42=-21/1798, 13-42=-21/1798
WEBS	22-26=-51/600, 15-22=-38/926, 11-15=-288/200, 19-21=-40/929, 20-21=-51/600, 4-19=-288/200, 6-20=-36/535, 21-24=-63/838, 24-25=-63/838, 23-25=-63/838, 22-23=-63/838, 9-26=-36/535

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 3-11-10, Interior(1) 3-11-10 to 14-0-0, Exterior(2) 14-0-0 to 20-8-14, Interior(1) 20-8-14 to 24-0-0, Exterior(2) 24-0-0 to 30-9-7, Interior(1) 30-9-7 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) 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.
7) N/A
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 9-14=-60, 27-31=-20, 6-9=-60

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

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: 1-6=-50, 9-14=-50, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-50

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-20, 27-31=-40, 6-9=-20

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, 6-35=12, 9-37=17, 13-37=12, 13-14=8, 27-31=-12, 6-8=20, 8-9=15
Horz: 1-2=-44, 2-35=-29, 6-35=-24, 9-37=29, 13-37=24, 13-14=20
Drag: 6-7=0, 8-9=-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, 6-36=17, 9-38=12, 13-38=17, 13-14=32, 27-31=-12, 6-7=15, 7-9=20
Horz: 1-2=-20, 2-36=-24, 6-36=-29, 9-38=24, 13-38=29, 13-14=44
Drag: 6-7=0, 8-9=-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, 2-6=-44, 9-13=-44, 13-14=-40, 27-31=-20, 6-9=-29
Horz: 1-2=-20, 2-6=24, 9-13=-24, 13-14=-20
Drag: 6-7=-0, 8-9=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, 2-6=-44, 9-13=-44, 13-14=-0, 27-31=-20, 6-9=-29
Horz: 1-2=20, 2-6=24, 9-13=-24, 13-14=20
Drag: 6-7=-0, 8-9=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, 2-6=-14, 9-13=5, 13-14=1, 27-31=-12, 6-9=19
Horz: 1-2=-8, 2-6=2, 9-13=17, 13-14=13
Drag: 6-7=0, 8-9=-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, 2-6=5, 9-13=-14, 13-14=-4, 27-31=-12, 6-9=19
Horz: 1-2=-13, 2-6=-17, 9-13=-2, 13-14=8
Drag: 6-7=0, 8-9=-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, 2-6=-31, 9-13=-11, 13-14=-7, 27-31=-20, 6-9=2
Horz: 1-2=7, 2-6=11, 9-13=9, 13-14=13
Drag: 6-7=0, 8-9=-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, 2-6=-11, 9-13=-31, 13-14=-27, 27-31=-20, 6-9=2
Horz: 1-2=-13, 2-6=-9, 9-13=-11, 13-14=-7
Drag: 6-7=0, 8-9=-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, 4-6=9, 9-13=2, 13-14=-3, 27-31=-12, 6-9=2
Horz: 1-2=-26, 2-4=-31, 4-6=-21, 9-13=14, 13-14=9
Drag: 6-7=0, 8-9=-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, 2-6=2, 9-11=9, 11-13=19, 13-14=14, 27-31=-12, 6-9=2
Horz: 1-2=-9, 2-6=-14, 9-11=21, 11-13=31, 13-14=26
Drag: 6-7=0, 8-9=-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, 2-6=9, 9-13=2, 13-14=-3, 27-31=-12, 6-9=2
Horz: 1-2=-17, 2-6=-21, 9-13=14, 13-14=9
Drag: 6-7=0, 8-9=-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, 2-6=2, 9-13=9, 13-14=5, 27-31=-12, 6-9=2
Horz: 1-2=-9, 2-6=-14, 9-13=21, 13-14=17
Drag: 6-7=0, 8-9=-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, 4-6=-7, 9-13=-15, 13-14=-11, 27-31=-20, 6-9=-15
Horz: 1-2=-26, 2-4=-22, 4-6=-13, 9-13=5, 13-14=9
Drag: 6-7=0, 8-9=-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, 2-6=-15, 9-11=-7, 11-13=2, 13-14=6, 27-31=-20, 6-9=-15
Horz: 1-2=-9, 2-6=-5, 9-11=13, 11-13=22, 13-14=26
Drag: 6-7=0, 8-9=-0

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-20, 27-39=-20, 39-40=-60, 40-41=-20, 41-42=-60, 31-42=-20, 6-9=-20

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, 2-6=-58, 9-13=-44, 13-14=-40, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-34
Horz: 1-2=5, 2-6=8, 9-13=6, 13-14=10
Drag: 6-7=0, 8-9=-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, 2-6=-44, 9-13=-58, 13-14=-55, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-34
Horz: 1-2=-10, 2-6=-6, 9-13=-8, 13-14=-5
Drag: 6-7=0, 8-9=-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, 4-6=-41, 9-13=-46, 13-14=-43, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-46
Horz: 1-2=-20, 2-4=-16, 4-6=-9, 9-13=4, 13-14=7
Drag: 6-7=0, 8-9=-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, 2-6=-46, 9-11=-41, 11-13=-34, 13-14=-30, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-46
Horz: 1-2=-7, 2-6=-4, 9-11=9, 11-13=16, 13-14=20
Drag: 6-7=0, 8-9=-0

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 9-14=-20, 27-31=-20, 6-9=-60

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 9-14=-60, 27-31=-20, 6-9=-60

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: 1-6=-50, 9-14=-20, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-50

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: 1-6=-20, 9-14=-50, 27-39=-20, 39-40=-50, 40-41=-20, 41-42=-50, 31-42=-20, 6-9=-50

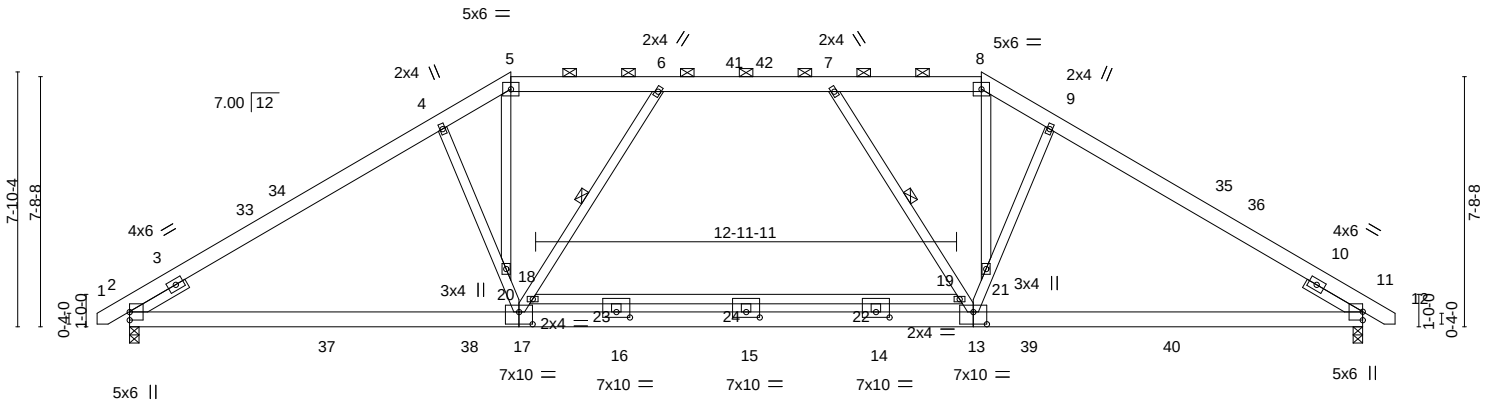
Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A07	COMMON	1	1	I55076441
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 15:20:15 2022 Page 1

ID:3TtRaskrdZOKr4jVkPWDepyhbii-PyYDANQp2xEvMXTaY?kcRbDUbzuMSWmJ5Z9kOGyMss_

-1-0-0	9-7-12	11-9-0	26-3-0	28-4-4	38-0-0	39-0-0
1-0-0	9-7-12	2-1-4	14-6-0	2-1-4	9-7-12	1-0-0

Scale = 1:71.0



12-0-0	15-0-0	19-0-0	23-0-0	26-0-0	38-0-0
12-0-0	3-0-0	4-0-0	4-0-0	3-0-0	12-0-0

Plate Offsets (X,Y)-- [13:0-5-0,0-4-8], [14:0-5-0,0-2-0], [15:0-5-0,0-2-0], [16:0-5-0,0-2-0], [17:0-5-0,0-4-8]

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	0.52	Vert(LL)	-0.19	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.42	15	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	17-27	>999	240	Weight: 279 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* 5-18,8-19,14-22,16-23,15-24: 2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-12 oc purlins, except 2-0-0 oc purlins (5-0-9 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-13, 6-17

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-143(LC 10)
Max Grav 2=1570(LC 1), 11=1570(LC 1)

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

TOP CHORD	2-3=-961/0, 3-33=-2227/121, 33-34=-2119/127, 4-34=-2092/154, 4-5=-2052/193, 8-9=-2052/193, 9-35=-2092/154, 35-36=-2119/127, 10-36=-2227/121, 10-11=-961/0, 5-6=-1769/160, 6-41=-1947/210, 41-42=-1947/210, 7-42=-1947/210, 7-8=-1769/160
BOT CHORD	2-37=-21/1807, 37-38=-21/1807, 17-38=-21/1807, 16-17=0/1835, 15-16=0/1835, 14-15=0/1835, 13-14=0/1835, 13-39=-25/1807, 39-40=-25/1807, 11-40=-25/1807
WEBS	7-21=-472/216, 13-21=-427/205, 13-19=-29/641, 9-19=-257/224, 17-20=-427/207, 6-20=-472/216, 4-18=-256/223, 17-18=-29/641, 5-18=-77/722, 8-19=-77/722

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 3-11-10, Interior(1) 3-11-10 to 11-9-0, Exterior(2) 11-9-0 to 18-6-7, Interior(1) 18-6-7 to 26-3-0, Exterior(2) 26-3-0 to 33-0-7, Interior(1) 33-0-7 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) 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.
7) N/A
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 8-12=-60, 25-29=-20, 5-8=-60

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Edenton, NC 27932

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: 1-5=-50, 8-12=-50, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-50

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 8-12=-20, 25-29=-40, 5-8=-20

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, 2-33=17, 5-33=12, 8-35=17, 11-35=12, 11-12=8, 25-29=-12, 5-41=20, 8-41=15
Horz: 1-2=-44, 2-33=-29, 5-33=-24, 8-35=29, 11-35=24, 11-12=20
Drag: 5-6=0, 7-8=-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, 2-34=12, 5-34=17, 8-36=12, 11-36=17, 11-12=32, 25-29=-12, 5-42=15, 8-42=20
Horz: 1-2=-20, 2-34=-24, 5-34=-29, 8-36=24, 11-36=29, 11-12=44
Drag: 5-6=0, 7-8=-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, 8-11=-44, 11-12=-40, 25-29=-20, 5-8=-29
Horz: 1-2=-20, 2-5=24, 8-11=-24, 11-12=-20
Drag: 5-6=-0, 7-8=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, 8-11=-44, 11-12=-0, 25-29=-20, 5-8=-29
Horz: 1-2=20, 2-5=24, 8-11=-24, 11-12=20
Drag: 5-6=-0, 7-8=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, 8-11=5, 11-12=1, 25-29=-12, 5-8=19
Horz: 1-2=-8, 2-5=2, 8-11=17, 11-12=13
Drag: 5-6=0, 7-8=-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, 8-11=-14, 11-12=-4, 25-29=-12, 5-8=19
Horz: 1-2=-13, 2-5=-17, 8-11=-2, 11-12=8
Drag: 5-6=0, 7-8=-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, 8-11=-11, 11-12=-7, 25-29=-20, 5-8=2
Horz: 1-2=7, 2-5=11, 8-11=9, 11-12=13
Drag: 5-6=0, 7-8=-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, 8-11=-31, 11-12=-27, 25-29=-20, 5-8=2
Horz: 1-2=-13, 2-5=-9, 8-11=-11, 11-12=-7
Drag: 5-6=0, 7-8=-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, 8-11=2, 11-12=-3, 25-29=-12, 5-8=2
Horz: 1-2=-26, 2-4=-31, 4-5=-21, 8-11=14, 11-12=9
Drag: 5-6=0, 7-8=-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, 8-9=9, 9-11=19, 11-12=14, 25-29=-12, 5-8=2
Horz: 1-2=-9, 2-5=-14, 8-9=21, 9-11=31, 11-12=26
Drag: 5-6=0, 7-8=-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, 8-11=2, 11-12=-3, 25-29=-12, 5-8=2
Horz: 1-2=-17, 2-5=-21, 8-11=14, 11-12=9
Drag: 5-6=0, 7-8=-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, 8-11=9, 11-12=5, 25-29=-12, 5-8=2
Horz: 1-2=-9, 2-5=-14, 8-11=21, 11-12=17
Drag: 5-6=0, 7-8=-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, 8-11=-15, 11-12=-11, 25-29=-20, 5-8=-15
Horz: 1-2=-26, 2-4=-22, 4-5=-13, 8-11=5, 11-12=9
Drag: 5-6=0, 7-8=-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, 8-9=-7, 9-11=2, 11-12=6, 25-29=-20, 5-8=-15
Horz: 1-2=-9, 2-5=-5, 8-9=13, 9-11=22, 11-12=26
Drag: 5-6=0, 7-8=-0

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 8-12=-20, 25-37=-20, 37-38=-60, 38-39=-20, 39-40=-60, 29-40=-20, 5-8=-20

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, 8-11=-44, 11-12=-40, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-34
Horz: 1-2=5, 2-5=8, 8-11=6, 11-12=10
Drag: 5-6=0, 7-8=-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, 8-11=-58, 11-12=-55, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-34
Horz: 1-2=-10, 2-5=-6, 8-11=-8, 11-12=-5
Drag: 5-6=0, 7-8=-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, 8-11=-46, 11-12=-43, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-46
Horz: 1-2=-20, 2-4=-16, 4-5=-9, 8-11=4, 11-12=7
Drag: 5-6=0, 7-8=-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, 8-9=-41, 9-11=-34, 11-12=-30, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-46
Horz: 1-2=-7, 2-5=-4, 8-9=9, 9-11=16, 11-12=20
Drag: 5-6=0, 7-8=-0

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 8-12=-20, 25-29=-20, 5-8=-60

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 8-12=-60, 25-29=-20, 5-8=-60

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, 8-12=-20, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-50

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, 8-12=-50, 25-37=-20, 37-38=-50, 38-39=-20, 39-40=-50, 29-40=-20, 5-8=-50

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A08	HIP	1	1	I55076442
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:18 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-BbKpg?Y3qvZQx1SXT_u1XVTay4FRb?dXwV53MByMwOp

-1-0-0 10-0-0 19-0-0 28-0-0 38-0-0 39-0-0
1-0-0 10-0-0 9-0-0 9-0-0 10-0-0 1-0-0

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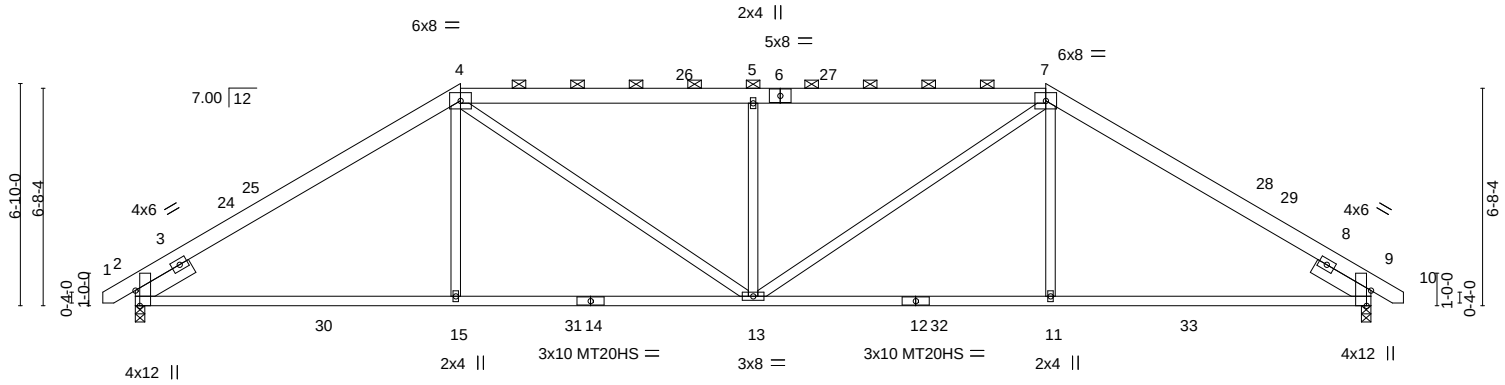

10-0-0 19-0-0 28-0-0 38-0-0
10-0-0 9-0-0 9-0-0 10-0-0

Plate Offsets (X,Y)-- [2:0-5-10,Edge], [9:0-5-10,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	0.72	Vert(LL)	-0.18	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.37	11-13	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.11	11-13	>999	240	Weight: 227 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.1 *Except* 12-14: 2x4 SP No.2
WEBS	2x4 SP No.3
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 3-3-7 oc purlins, except 2-0-0 oc purlins (4-2-15 max.): 4-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=123(LC 11)
Max Uplift 2=-71(LC 12), 9=-71(LC 13)
Max Grav 2=1602(LC 2), 9=1602(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2344/148, 4-5=-2439/200, 5-7=-2439/200, 7-9=-2344/148
BOT CHORD 2-15=-47/1922, 13-15=-50/1913, 11-13=-9/1913, 9-11=-7/1922
WEBS 4-15=0/437, 7-11=0/437, 5-13=-644/208, 4-13=-163/829, 7-13=-163/829

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 3-11-10, Interior(1) 3-11-10 to 10-0-0, Exterior(2) 10-0-0 to 16-9-7, Interior(1) 16-9-7 to 28-0-0, Exterior(2) 28-0-0 to 34-9-7, Interior(1) 34-9-7 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 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 3,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A09	HIP	1	1	I55076443
					Job Reference (optional)

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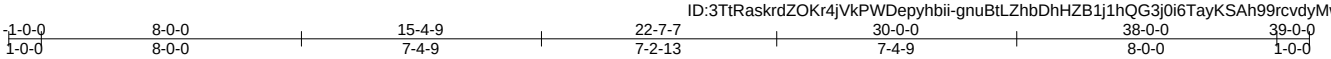

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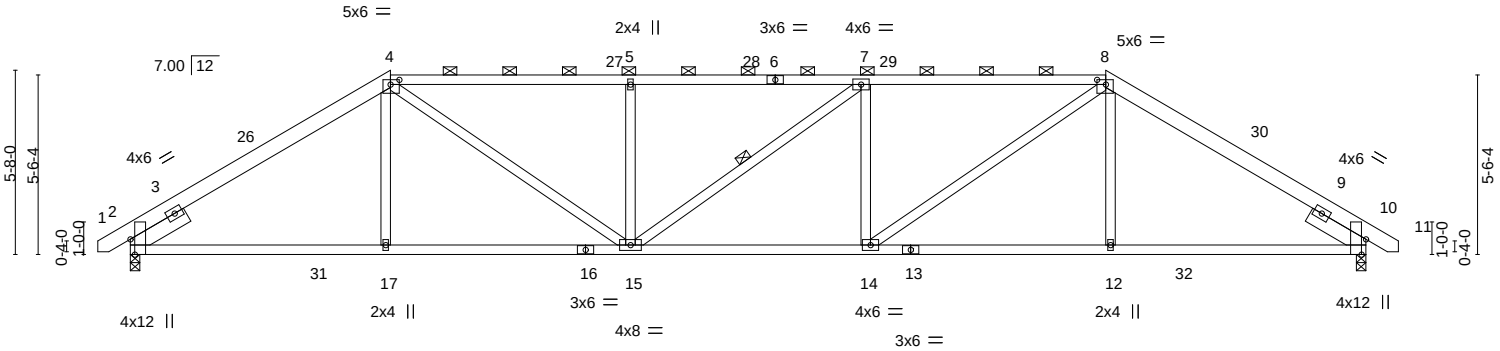

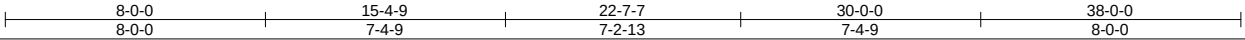

Plate Offsets (X,Y)-- [2:0-5-10,Edge], [4:0-3-4,0-1-12], [8:0-3-4,0-1-12], [10:0-5-10,Edge]

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	0.95	Vert(LL)	-0.17	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.38	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	12-14	>999	240	Weight: 216 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 4-6,6-8: 2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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 3-2-15 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-15

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=101(LC 11)
Max Uplift 2=-73(LC 12), 10=-73(LC 13)
Max Grav 2=1570(LC 1), 10=1570(LC 1)

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

TOP CHORD	2-4=-2284/147, 4-5=-2729/206, 5-7=-2729/206, 7-8=-2729/206, 8-10=-2284/147
BOT CHORD	2-17=-87/1865, 15-17=-90/1861, 14-15=-104/2729, 12-14=-20/1861, 10-12=-17/1865
WEBS	4-17=0/278, 4-15=-150/1138, 5-15=-471/150, 7-14=-501/172, 8-14=-151/1138, 8-12=0/278

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 3-11-10, Interior(1) 3-11-10 to 8-0-0, Exterior(2) 8-0-0 to 14-9-7, Interior(1) 14-9-7 to 30-0-0, Exterior(2) 30-0-0 to 36-9-7, Interior(1) 36-9-7 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, 10.
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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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A10	HIP	1	1	I55076444
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:21 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-cA0yI0bx7qx?oUA586Sk9855HHHDoFd_cTKjzWyMwOm

-1-0-0 6-0-0 14-8-9 23-3-7 32-0-0 38-0-0 39-0-0
1-0-0 6-0-0 8-8-9 8-6-13 8-8-9 6-0-0 1-0-0

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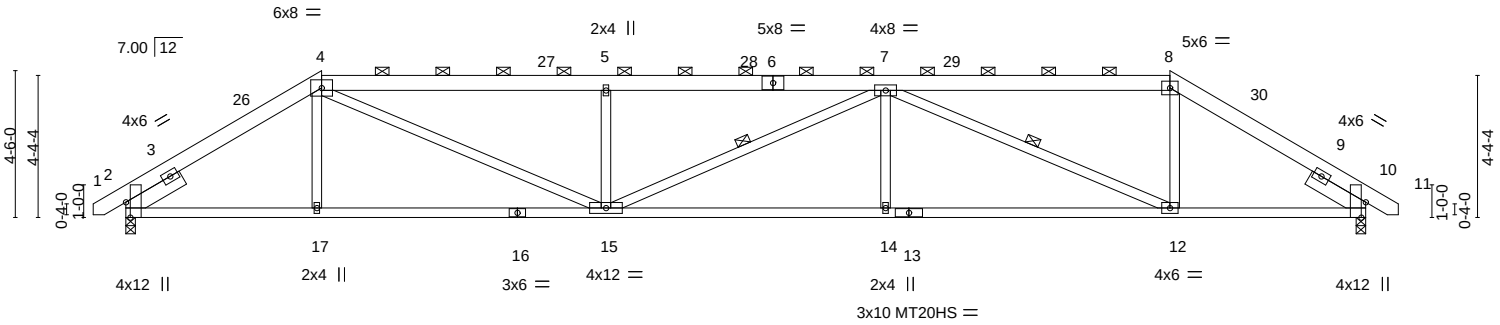

6-0-0 14-8-9 23-3-7 32-0-0 38-0-0
6-0-0 8-8-9 8-6-13 8-8-9 6-0-0

Plate Offsets (X,Y)-- [2:0-5-10,Edge], [10:0-5-10,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	0.72	Vert(LL)	-0.25	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.54	14-15	>841	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.18	14-15	>999	240	Weight: 228 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
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 3-1-13 oc purlins, except 2-0-0 oc purlins (2-11-6 max.): 4-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-15, 7-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=77(LC 11)
Max Uplift 2=-75(LC 12), 10=-75(LC 13)
Max Grav 2=1570(LC 1), 10=1570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2348/142, 4-5=-3569/229, 5-7=-3567/228, 7-8=-1908/153, 8-10=-2351/142
BOT CHORD 2-17=-115/1935, 15-17=-119/1931, 14-15=-207/3559, 12-14=-207/3559, 10-12=-45/1938
WEBS 4-17=0/268, 4-15=-202/1858, 5-15=-579/177, 7-14=0/357, 7-12=-1869/205, 8-12=0/864

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 3-11-10, Interior(1) 3-11-10 to 6-0-0, Exterior(2) 6-0-0 to 12-9-7, Interior(1) 12-9-7 to 32-0-0, Exterior(2) 32-0-0 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A11GR	HIP	1	1	I55076445
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:24 2022 Page 1
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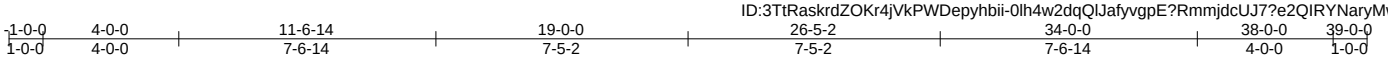

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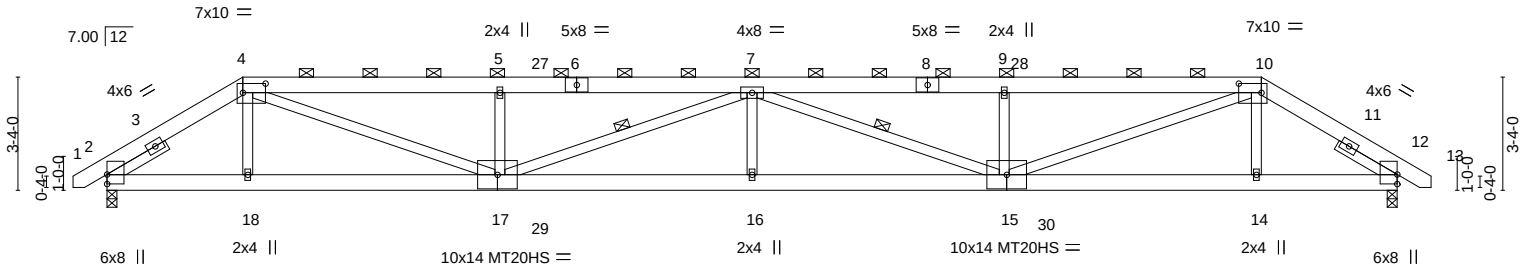

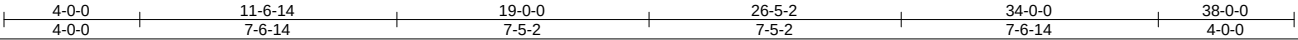

Plate Offsets (X,Y)-- [4:0-8-0,0-3-4], [10:0-8-0,0-3-4]

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	0.65	Vert(LL)	-0.49	16-17	>932	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.98	16-17	>463	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.14	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.37	16-17	>999	240	Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP DSS *Except* 1-4,10-13: 2x6 SP No.2
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.2 *Except* 4-17,7-17,7-15,10-15: 2x4 SP No.1
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 3-1-0 oc purlins, except 2-0-0 oc purlins (2-9-12 max.): 4-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-17, 7-15

REACTIONS. (size) 12=0-3-8, 2=0-3-8
Max Horz 2=-56(LC 6)
Max Uplift 12=-146(LC 9), 2=-144(LC 8)
Max Grav 12=2388(LC 1), 2=2360(LC 1)

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

TOP CHORD	2-4=-3591/259, 4-5=-7533/605, 5-7=-7547/609, 7-9=-7611/614, 9-10=-7597/610, 10-12=-3656/265
BOT CHORD	2-18=-231/2985, 17-18=-226/2980, 16-17=-703/8873, 15-16=-703/8873, 14-15=-182/3034, 12-14=-187/3038
WEBS	4-17=-447/4905, 5-17=-538/161, 7-17=-1441/177, 7-16=0/444, 7-15=-1372/171, 9-15=-555/162, 10-15=-449/4916

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=146, 2=144.
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) 577 lb down and 49 lb up at 12-8-0, and 577 lb down and 49 lb up at 26-0-0 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

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-27=-60, 27-28=-86(F=-26), 10-28=-60, 10-13=-60, 23-29=-20, 29-30=-29(F=-8), 19-30=-20
   Concentrated Loads (lb)
   Vert: 29=-577(F) 30=-577(F)

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	A12	MONO TRUSS	6	1	I55076446

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:25 2022 Page 1
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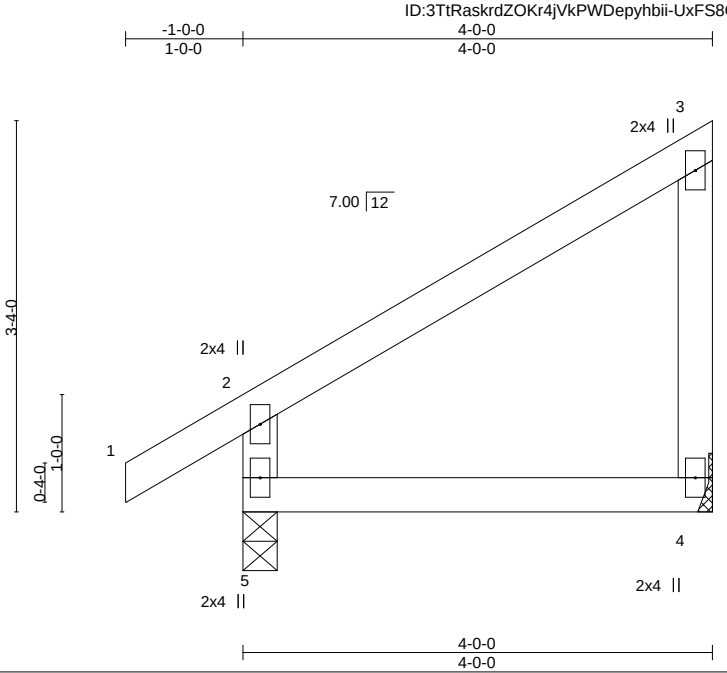

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 20 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 4-0-0 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=96(LC 11)
Max Uplift 5=-14(LC 12), 4=-27(LC 12)
Max Grav 5=227(LC 1), 4=153(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) 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) 5, 4.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY I55076447
MASTER_FC	A13GR	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:26 2022 Page 1
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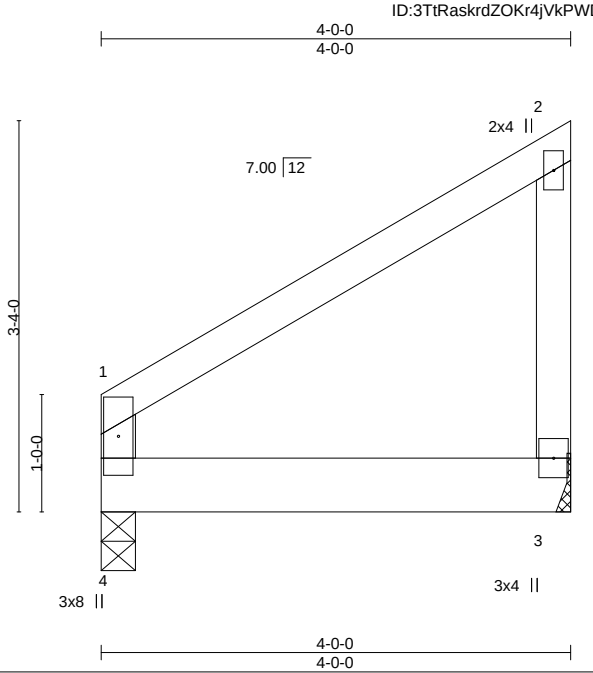

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.03	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.01	3-4	>999	240	Weight: 21 lb	FT = 20%

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

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

REACTIONS. (size) 4=0-3-8, 3=Mechanical
Max Horz 4=85(LC 5)
Max Uplift 4=-31(LC 8), 3=-60(LC 8)
Max Grav 4=558(LC 16), 3=577(LC 15)

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
6) Girder carries tie-in span(s): 12-8-0 from 0-0-0 to 4-0-0
7) 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=-228(F=-208), 1-2=-60

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	B01G	GABLE	1	1	I55076448
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:27 2022 Page 1
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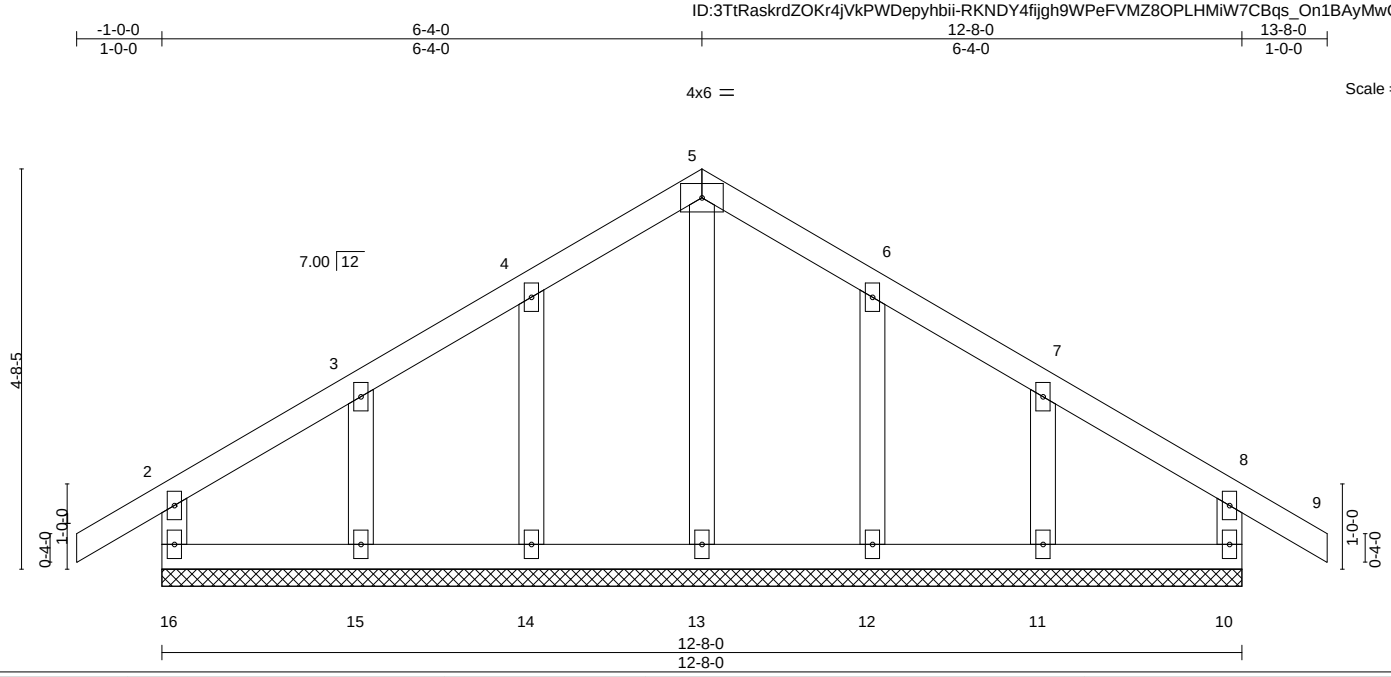

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 67 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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-8-0.
(lb) - Max Horz 16=107(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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) -0-11-15 to 3-9-10, Exterior(2) 3-9-10 to 6-4-0, Corner(3) 6-4-0 to 11-1-10, Exterior(2) 11-1-10 to 13-7-15 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) 16, 10, 14, 15, 12, 11.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	B02	COMMON	3	1	I55076449
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:28 2022 Page 1
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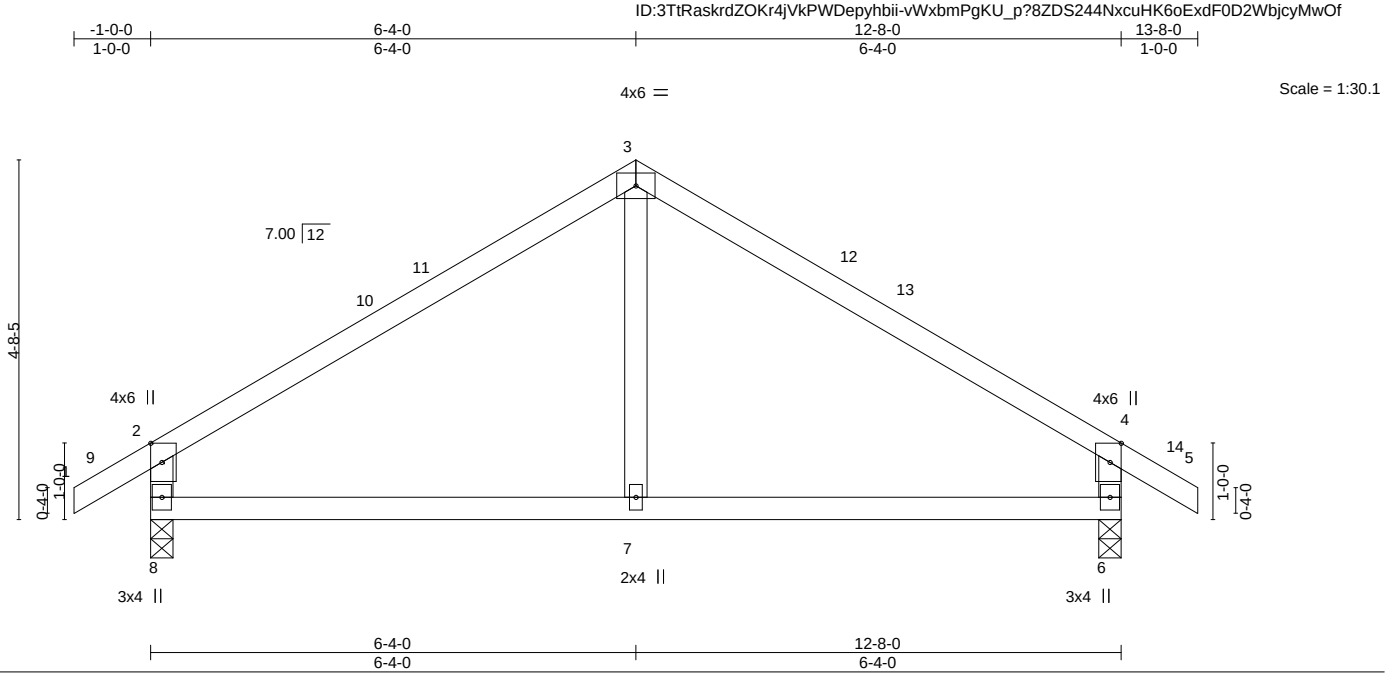

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-3-0,Edge]

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	0.79	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.02	7-8	>999	240	Weight: 52 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=107(LC 11)
Max Uplift 8=-27(LC 12), 6=-27(LC 13)
Max Grav 8=564(LC 1), 6=564(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-497/115, 2-3=-536/67, 3-4=-536/67, 4-6=-497/115
BOT CHORD 7-8=0/370, 6-7=0/370
WEBS 3-7=0/253

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 3-9-10, Interior(1) 3-9-10 to 6-4-0, Exterior(2) 6-4-0 to 13-1-7, Interior(1) 13-1-7 to 13-7-15 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

November 3,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	B03	COMMON	2	1	I55076450
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:30 2022 Page 1
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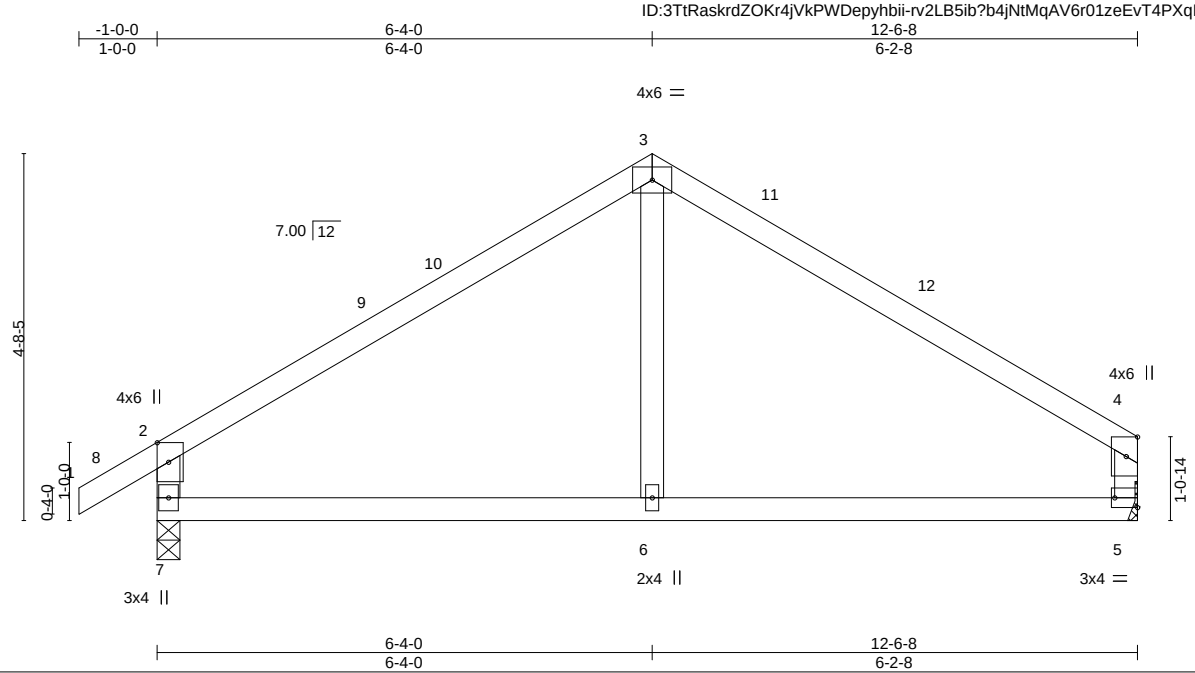

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-3-0,Edge], [5:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.02	6-7	>999	240	Weight: 50 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=Mechanical
Max Horz 7=103(LC 9)
Max Uplift 7=-27(LC 12), 5=-10(LC 13)
Max Grav 7=562(LC 1), 5=487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-491/115, 2-3=-527/67, 3-4=-520/69, 4-5=-410/76
BOT CHORD 6-7=-7/363, 5-6=-7/363

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 3-9-10, Interior(1) 3-9-10 to 6-4-0, Exterior(2) 6-4-0 to 12-4-12 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.

November 3,2022

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	B04G	GABLE	1	1	I55076451
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:31 2022 Page 1
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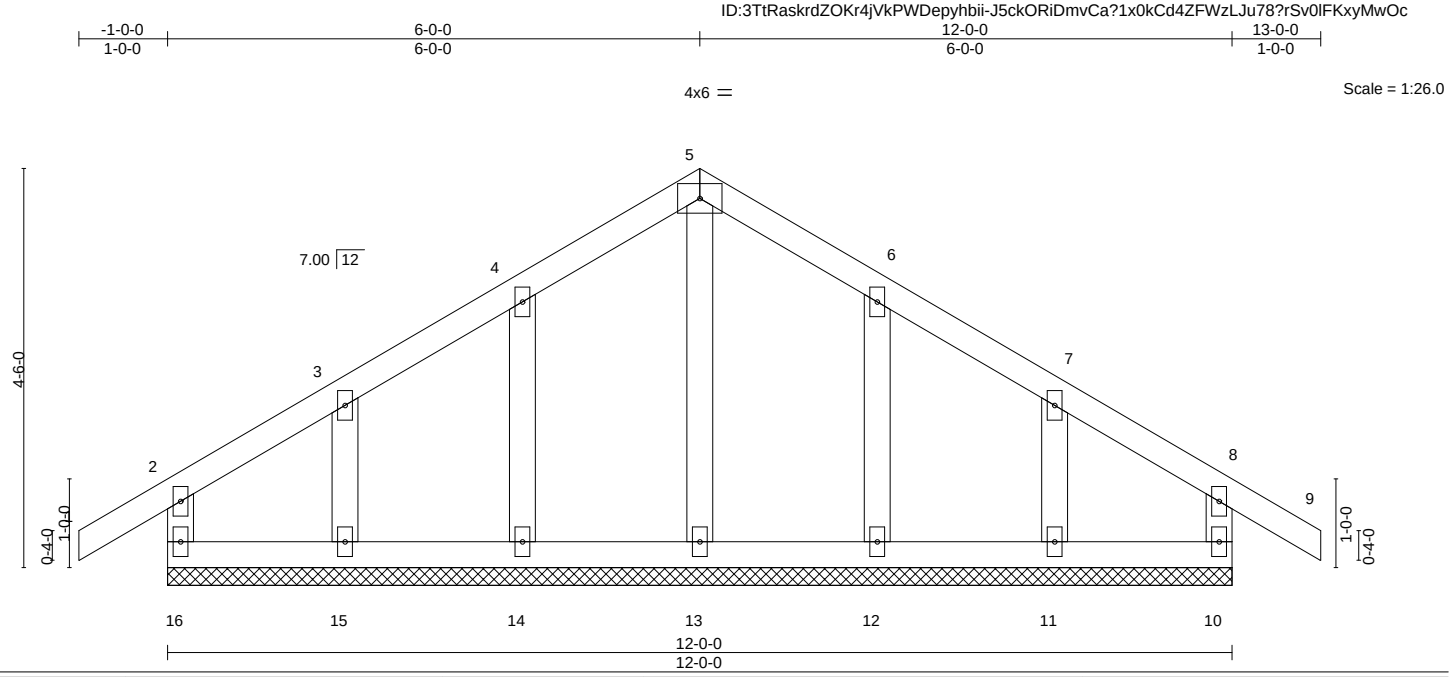

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 63 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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 16=-103(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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) -0-11-15 to 4-0-0, Exterior(2) 4-0-0 to 6-0-0, Corner(3) 6-0-0 to 10-9-10, Exterior(2) 10-9-10 to 12-11-15 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) 16, 10, 14, 15, 12, 11.

November 3,2022

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	B05	COMMON	2	1	I55076452
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:32 2022 Page 1
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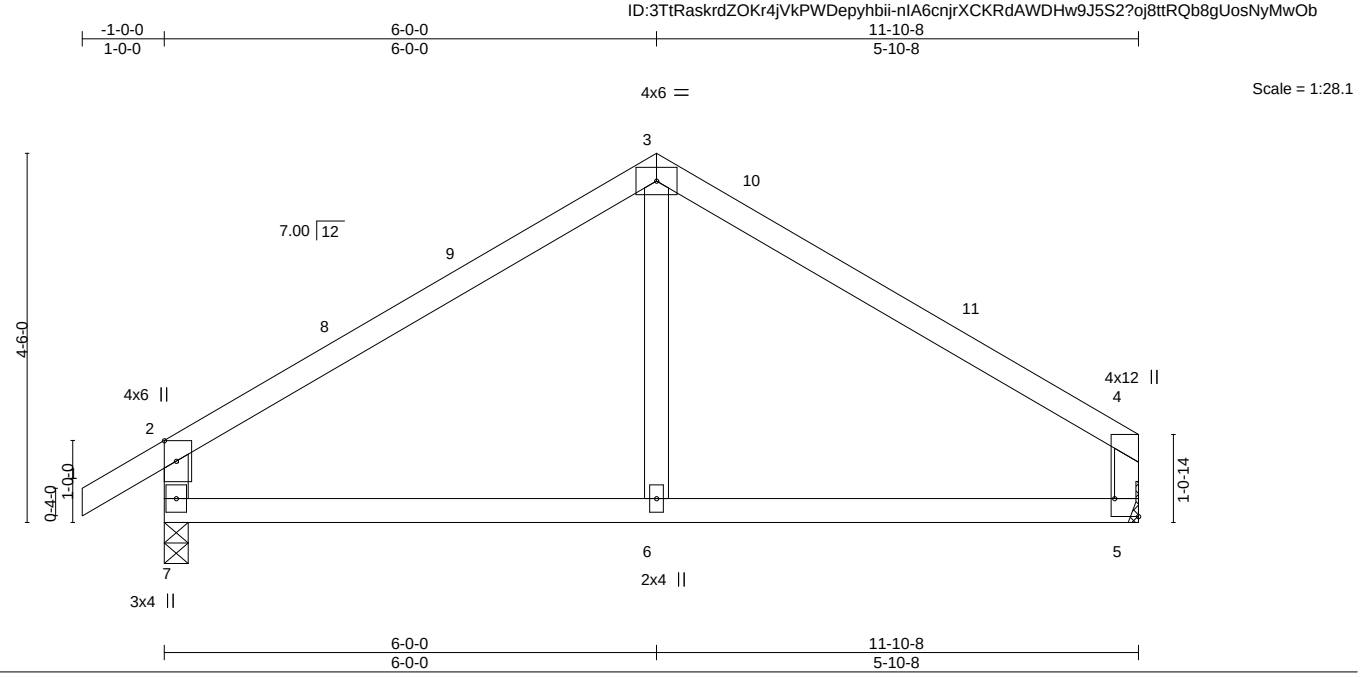

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:Edge,0-3-8]

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	0.70	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.02	6-7	>999	240	Weight: 48 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=Mechanical
Max Horz 7=99(LC 9)
Max Uplift 7=-27(LC 12), 5=-10(LC 13)
Max Grav 7=535(LC 1), 5=460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-467/113, 2-3=-492/65, 3-4=-485/67, 4-5=-385/74
BOT CHORD 6-7=-9/337, 5-6=-9/337

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 3-9-10, Interior(1) 3-9-10 to 6-0-0, Exterior(2) 6-0-0 to 11-8-12 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.

November 3,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P01	MONO TRUSS	1	1	I55076453 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:33 2022 Page 1
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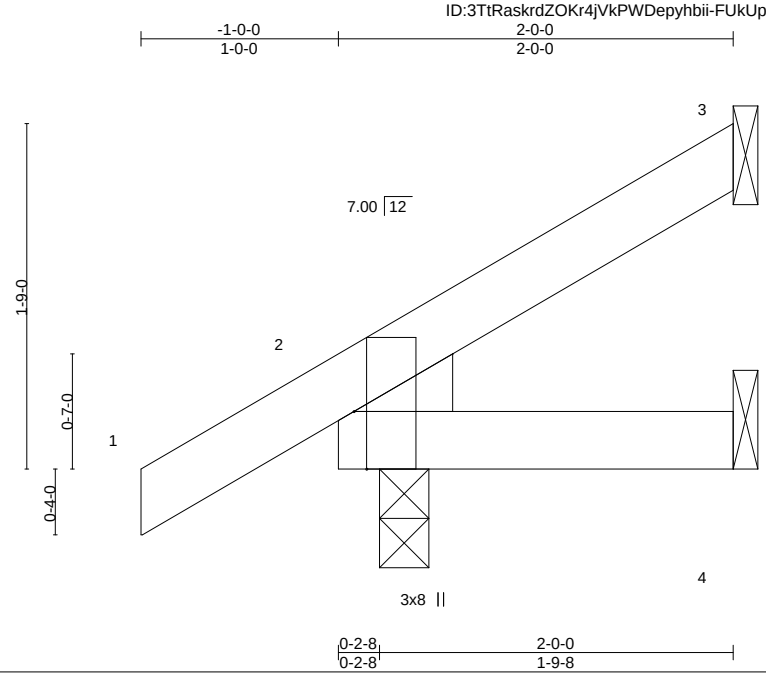

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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	0.08	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	7	>999	240	Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 4=Mechanical, 2=0-3-0, 3=Mechanical
Max Horz 2=51(LC 8)
Max Uplift 2=-10(LC 8), 3=-20(LC 8)
Max Grav 4=34(LC 3), 2=154(LC 1), 3=45(LC 15)

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.

November 3,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P02	MONO TRUSS	1	1	I55076454

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:34 2022 Page 1
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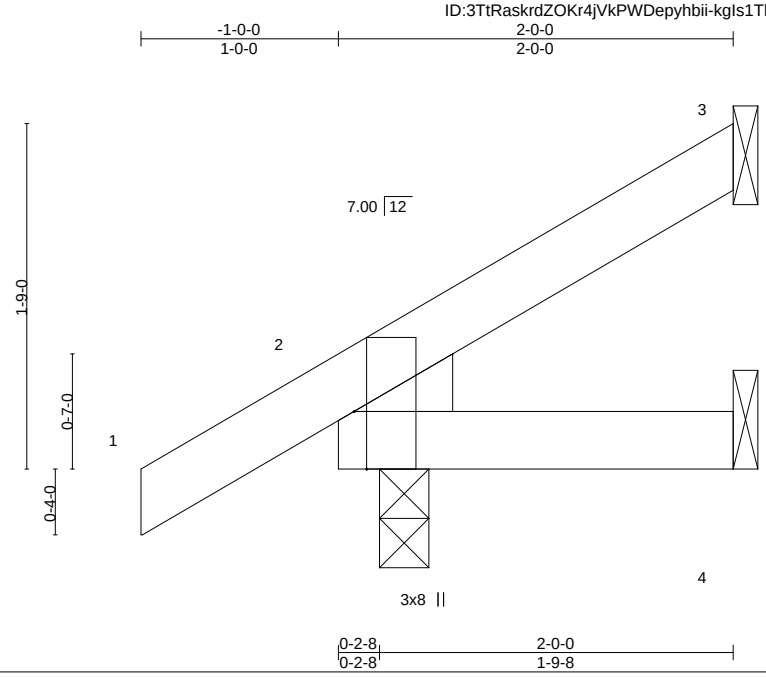

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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	0.07	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	-0.00	7	>999	240	Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (size) 4=Mechanical, 2=0-3-0, 3=Mechanical
Max Horz 2=51(LC 12)
Max Uplift 2=-10(LC 12), 3=-20(LC 12)
Max Grav 4=34(LC 3), 2=154(LC 1), 3=45(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) 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) 2, 3.

November 3,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P03GR	JACK	1	1	I55076455
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:35 2022 Page 1
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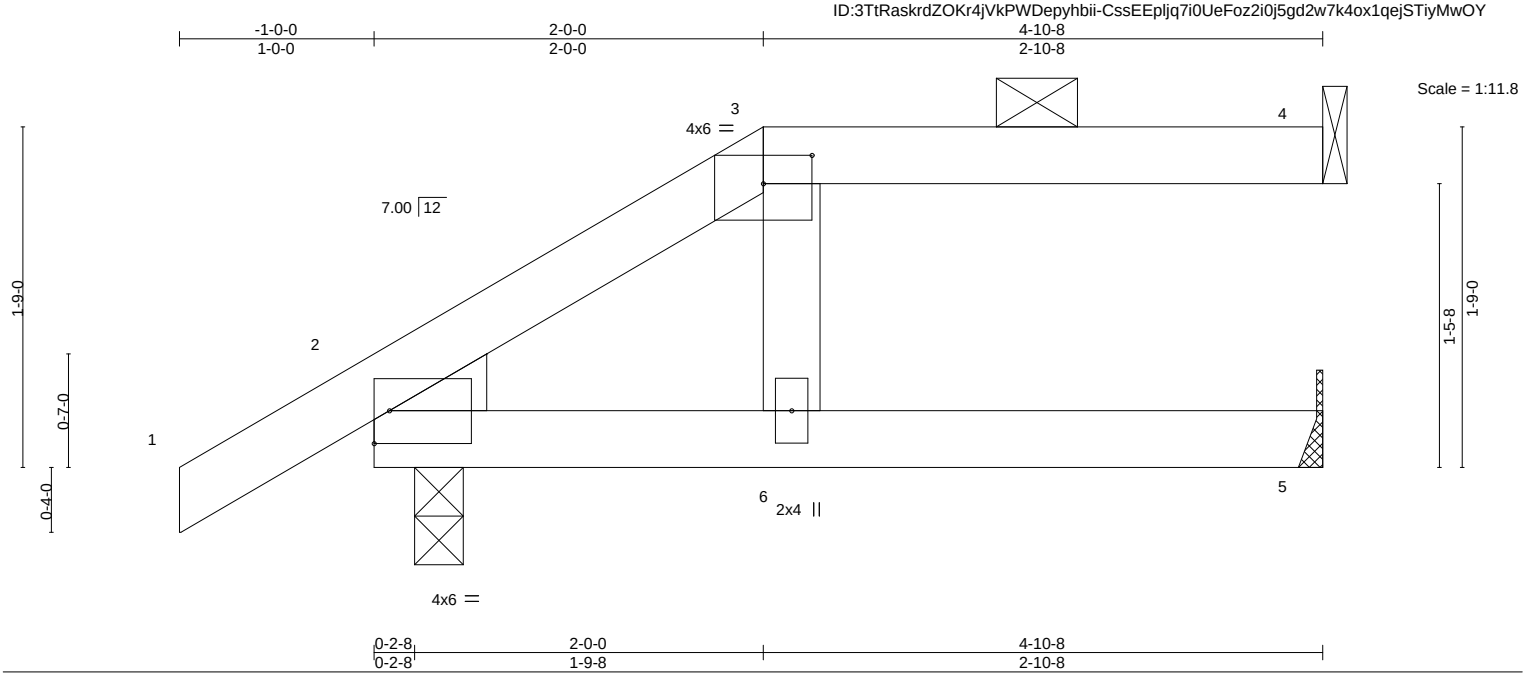

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]

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)	-0.04	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.09	5-6	>622	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.06	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03	6	>999	240	Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 5=Mechanical, 4=Mechanical, 2=0-3-0
Max Horz 2=55(LC 8)
Max Uplift 4=-29(LC 4), 2=-16(LC 8)
Max Grav 5=118(LC 3), 4=89(LC 1), 2=268(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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
9) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 2-6-0 end setback.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-63(F=-3), 5-7=-21(F=-1), 3-4=-63(F=-3)

November 3,2022

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P04	JACK	1	1	I55076456

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:37 2022 Page 1
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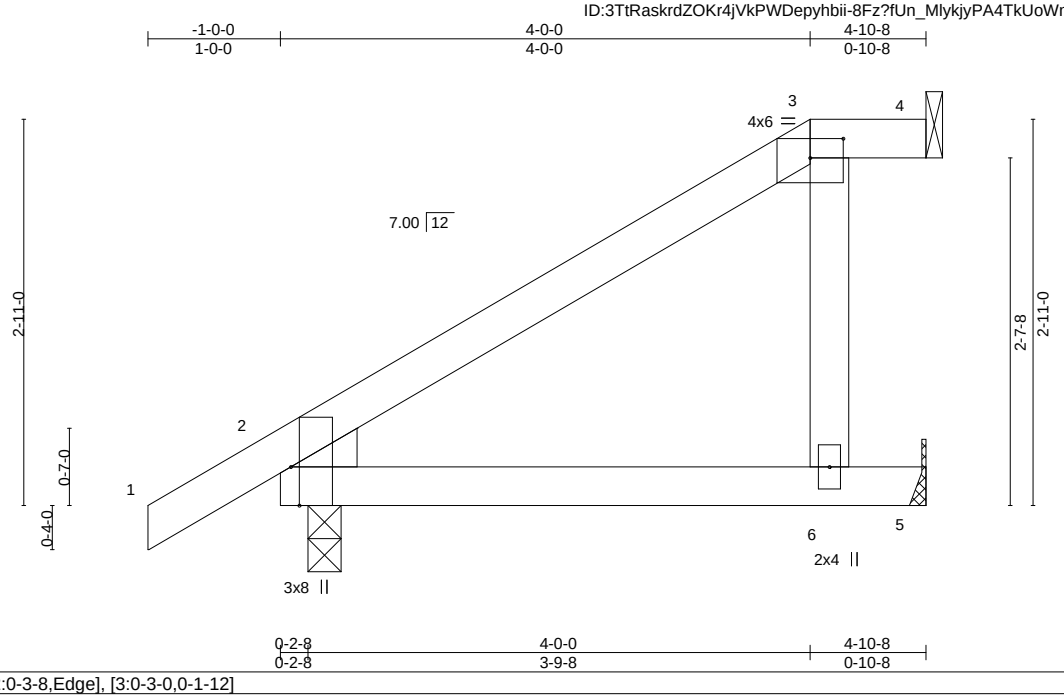

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-3-0,0-1-12]

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	0.25	Vert(LL)	-0.03	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	6-9	>921	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03	6-9	>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
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 5=Mechanical, 4=Mechanical, 2=0-3-0
Max Horz 2=88(LC 12)
Max Uplift 5=-25(LC 12), 4=-8(LC 8), 2=-10(LC 12)
Max Grav 5=162(LC 1), 4=24(LC 1), 2=258(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;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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4, 2.
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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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P05	JACK	1	1	I55076457
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:38 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-cRXNsqoc724bL5_NeAFjLjI528CFH9EUWcx741yMwOV

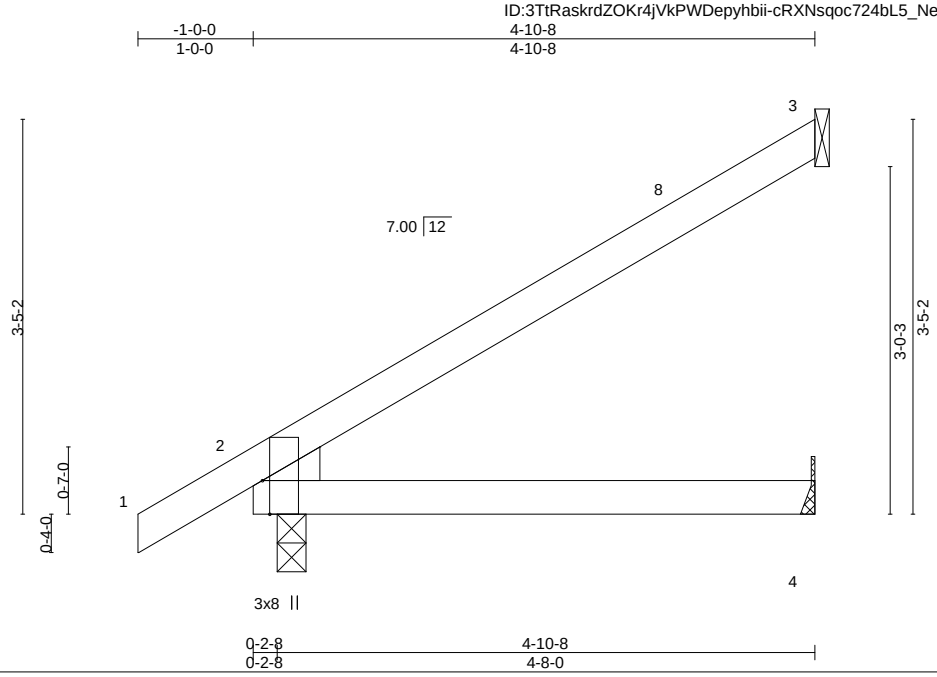

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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	0.33	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03	4-7	>999	240	Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-0
Max Horz 2=102(LC 12)
Max Uplift 3=-55(LC 12), 2=-2(LC 12)
Max Grav 3=126(LC 19), 4=89(LC 3), 2=258(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) -0-11-15 to 3-9-10, Interior(1) 3-9-10 to 4-9-12 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.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P06GR	MONO HIP	1	1	I55076458
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:39 2022 Page 1
ID:3TtRaskrdZOKr4jVkPWDepyhbii-4e5l4ApEuMCSyFYZCunytxrEeXWJ0ZAdlGhgcTyMwOU

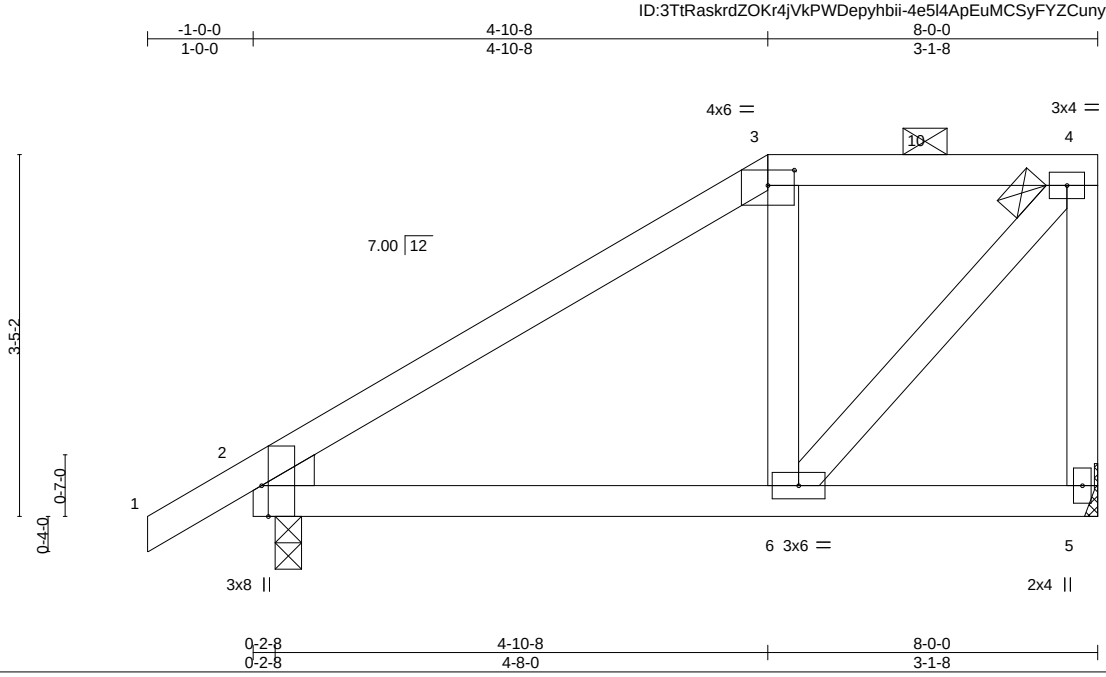

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-3-0,0-1-12]

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	0.47	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.05	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	6-9	>999	240	Weight: 42 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-0
Max Horz 2=174(LC 5)
Max Uplift 5=-86(LC 5), 2=-58(LC 8)
Max Grav 5=513(LC 1), 2=581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-518/57, 3-4=-356/97, 4-5=-500/109
BOT CHORD 2-6=-85/382
WEBS 4-6=-110/538

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) 5, 2.
8) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 4-10-8 end setback.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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: 1-2=-60, 2-3=-99(F=-39), 3-4=-99(F=-39), 5-7=-33(F=-13)

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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P07	KINGPOST	4	1	I55076459

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:41 2022 Page 1
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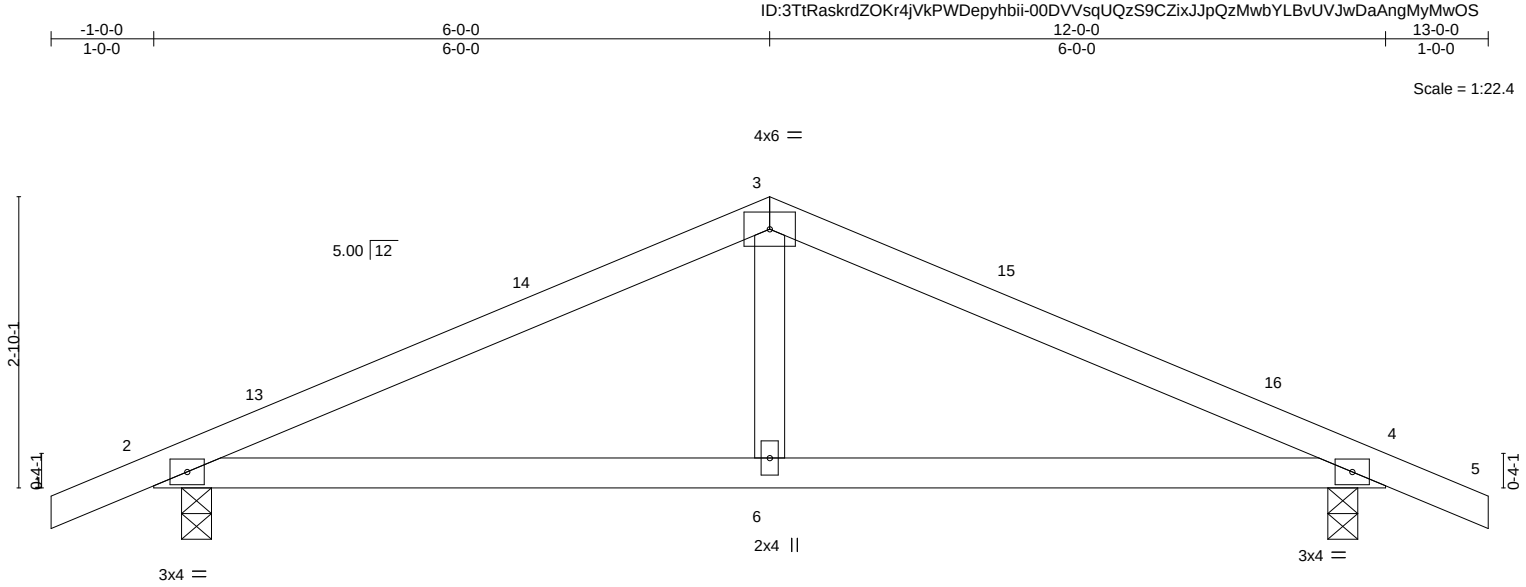


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.05	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.09	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	6-9	>999	240	Weight: 44 lb	FT = 20%

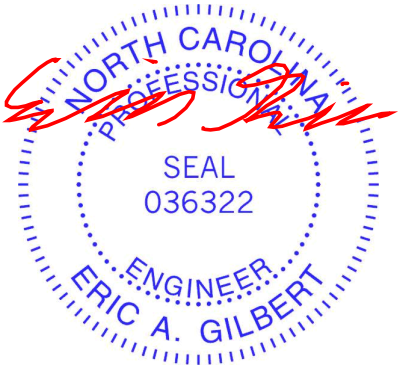
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-39(LC 13)
Max Uplift 2=-32(LC 12), 4=-32(LC 13)
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=-763/109, 3-4=-763/109
BOT CHORD 2-6=-24/652, 4-6=-24/652
WEBS 3-6=0/280

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 3-9-10, Interior(1) 3-9-10 to 6-0-0, Exterior(2) 6-0-0 to 10-9-10, Interior(1) 10-9-10 to 13-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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Job	Truss	Truss Type	Qty	Ply	MATTAMY/SHENANDOAH/FRENCH COUNTRY
MASTER_FC	P07G	GABLE	1	1	I55076460
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 3 11:18:42 2022 Page 1
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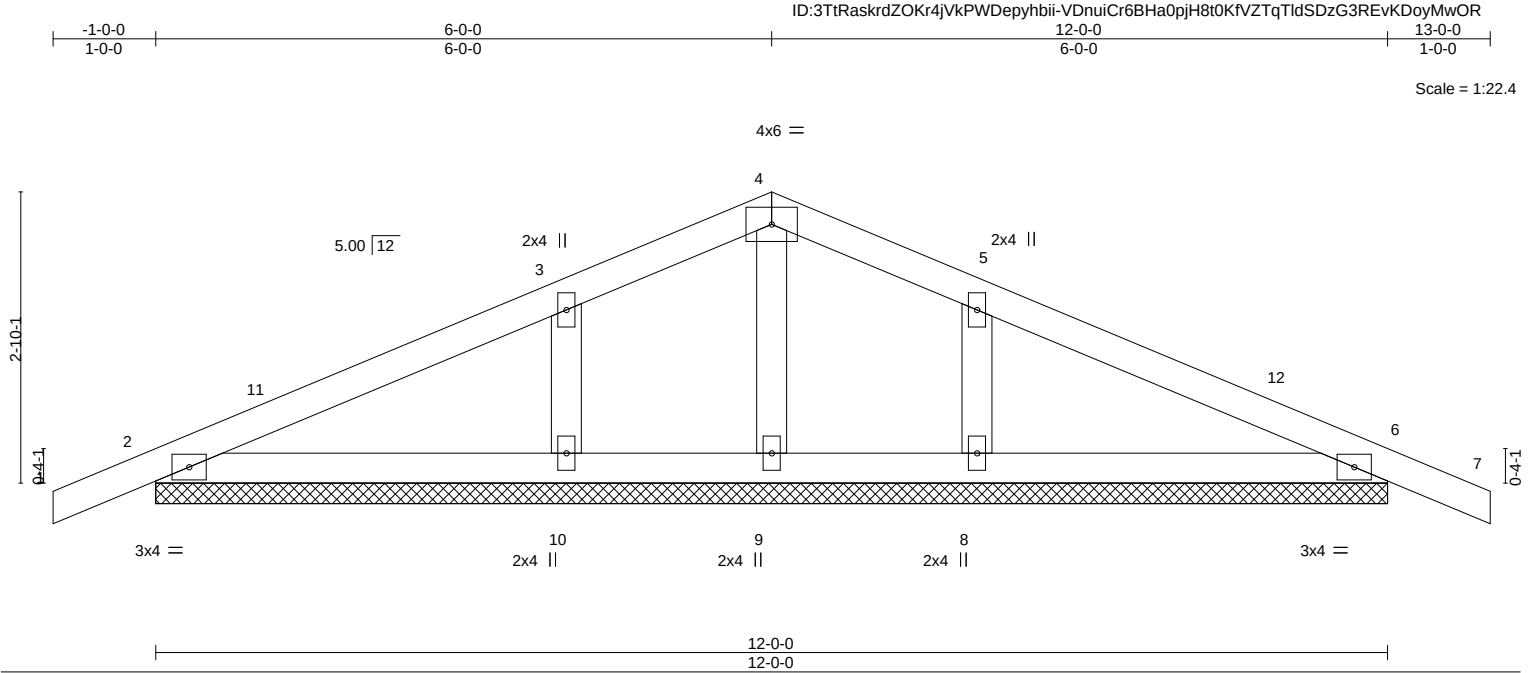

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 48 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=-39(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=321(LC 1), 8=321(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 Corner(3) -1-0-0 to 4-0-0, Exterior(2) 4-0-0 to 6-0-0, Corner(3) 6-0-0 to 10-9-10, Exterior(2) 10-9-10 to 13-0-0 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) Gable requires continuous bottom chord bearing.
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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.

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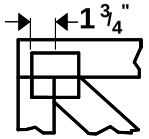
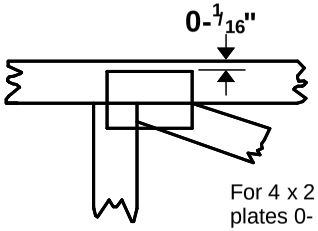
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

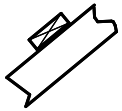
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

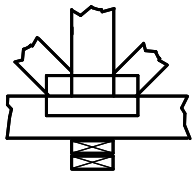
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

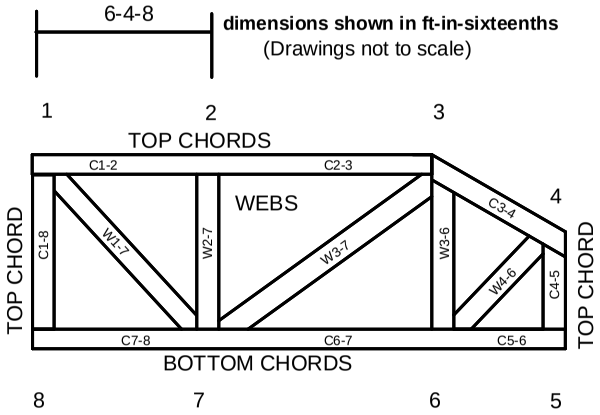


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

MiTek 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.